

Test_Graph_802.11n20_ANT1_2462_MCS0_Lower Band Emissions



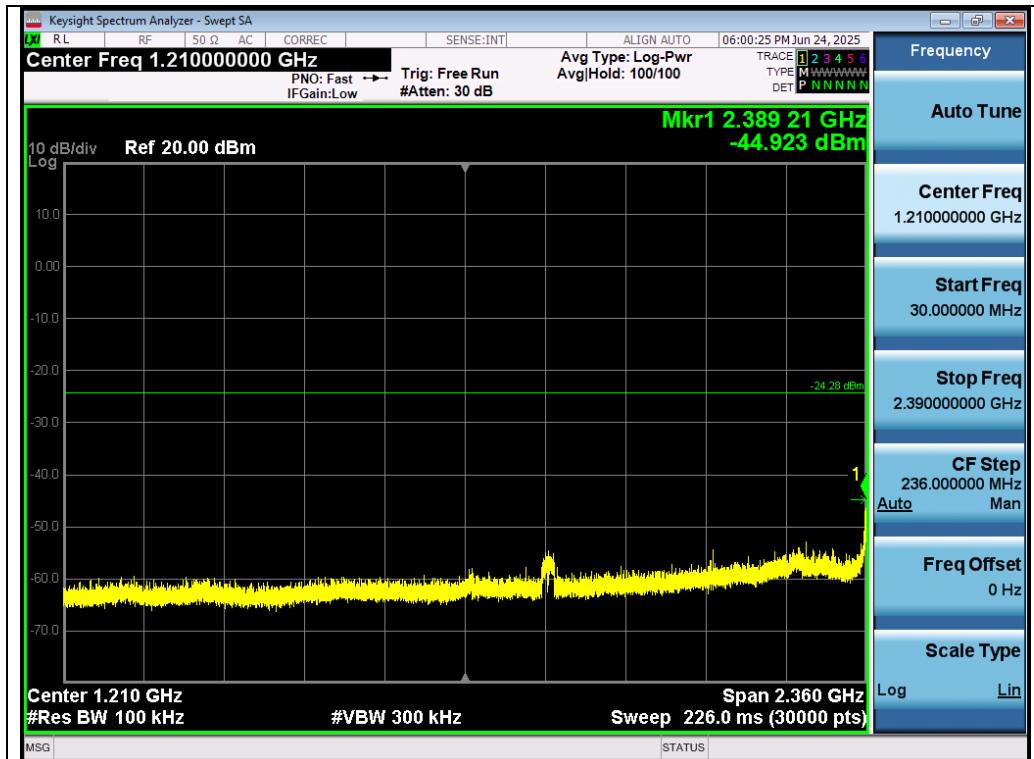
Test_Graph_802.11n20_ANT1_2462_MCS0_Higher Band Emissions

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Test_Graph_802.11n40_ANT1_2422_MCS0_Lower Band Emissions



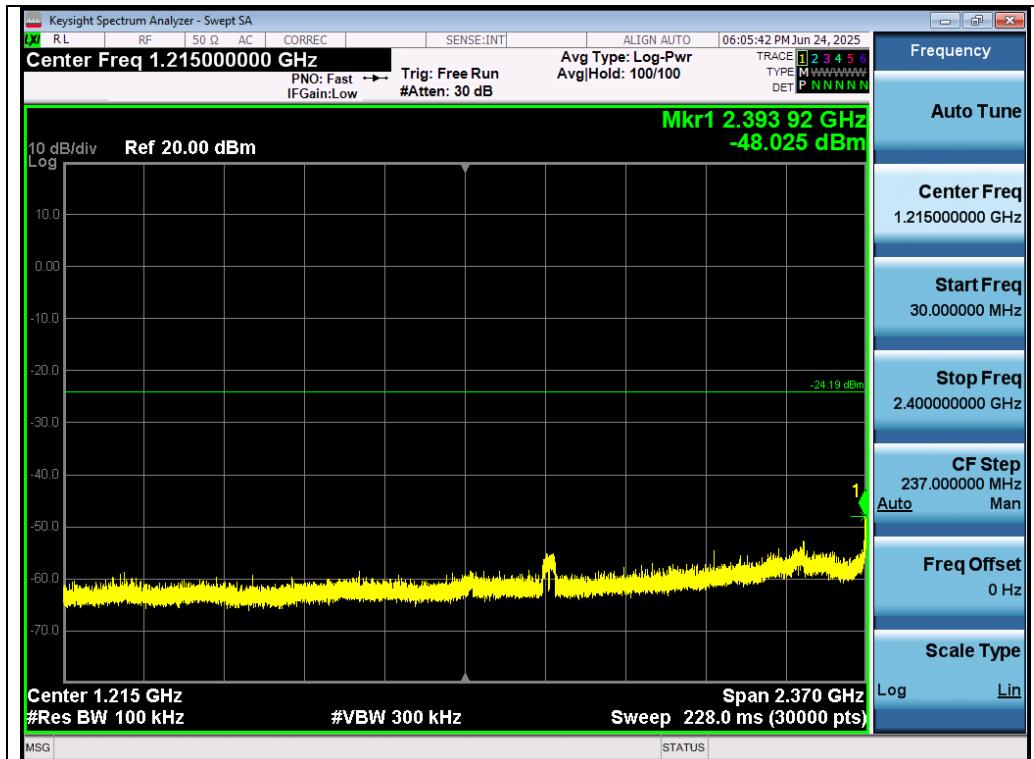
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Test_Graph_802.11n40_ANT1_2437_MCS0_Lower Band Emissions



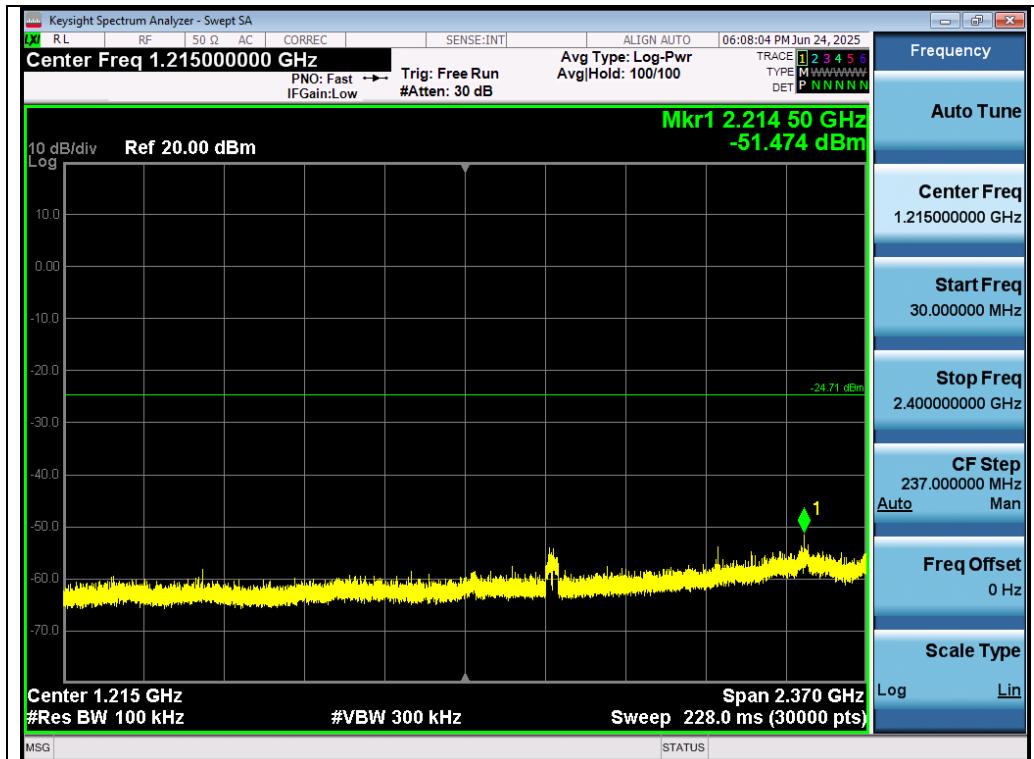
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Test_Graph_802.11n40_ANT1_2452_MCS0_Lower Band Emissions



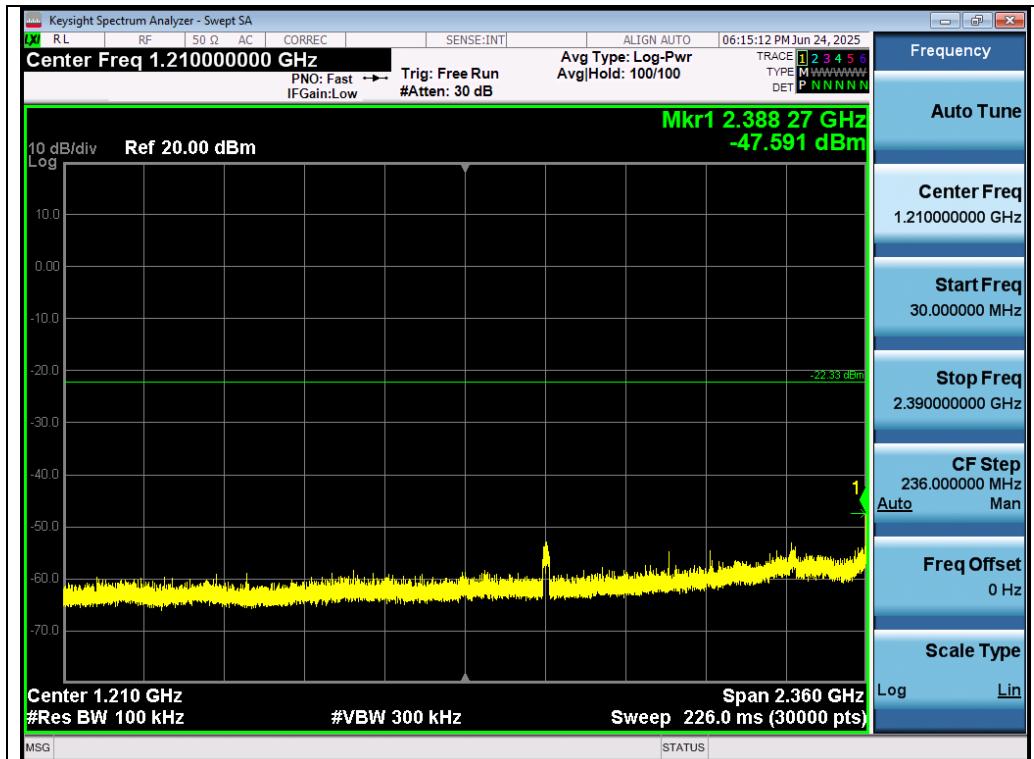
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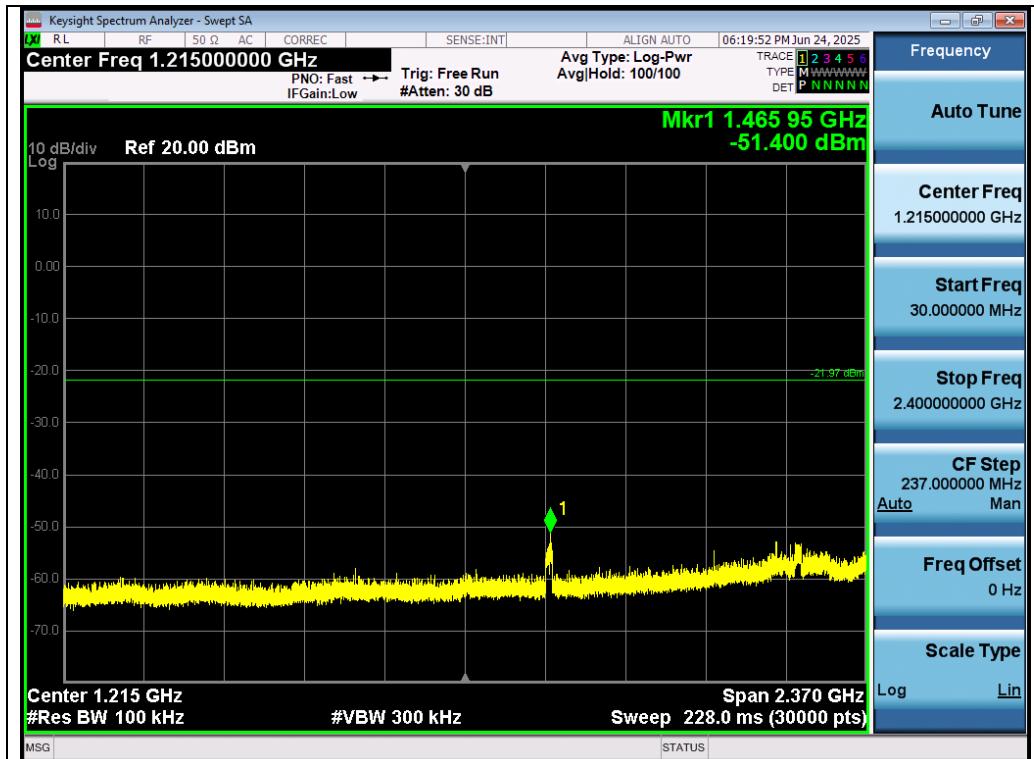
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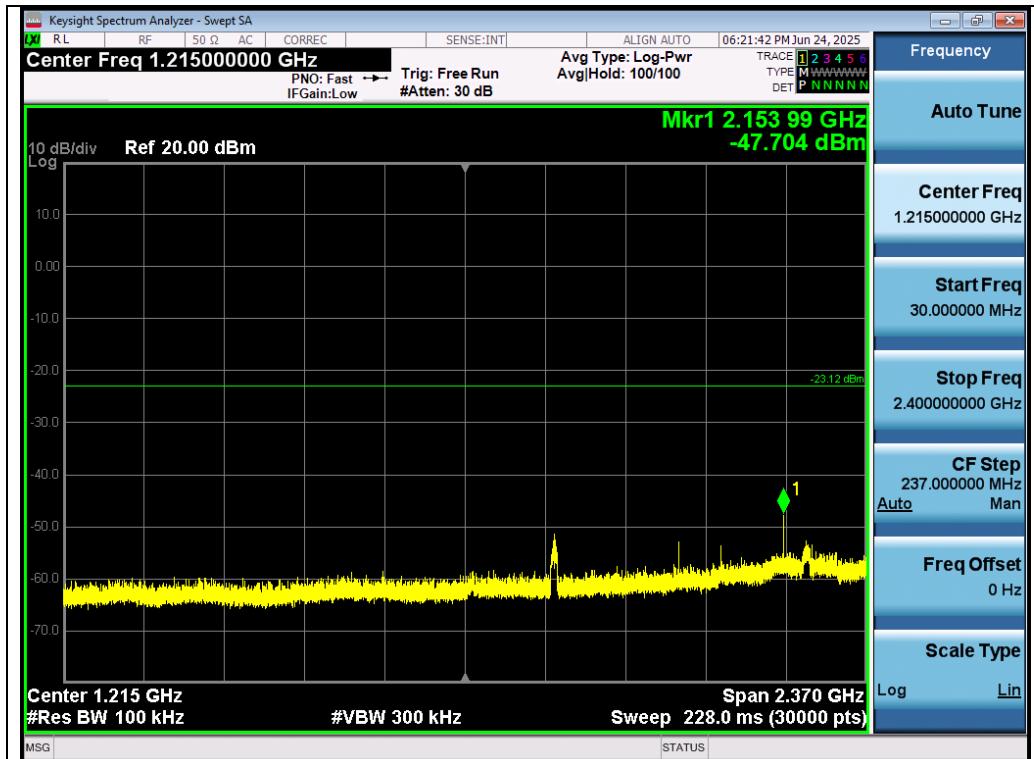
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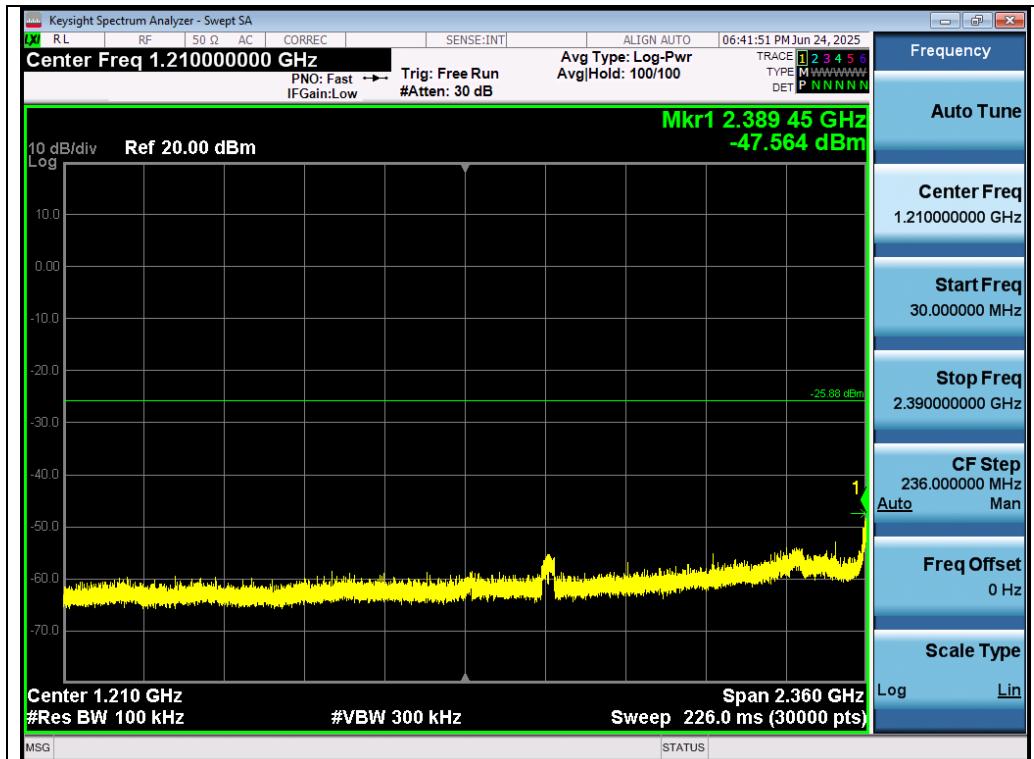
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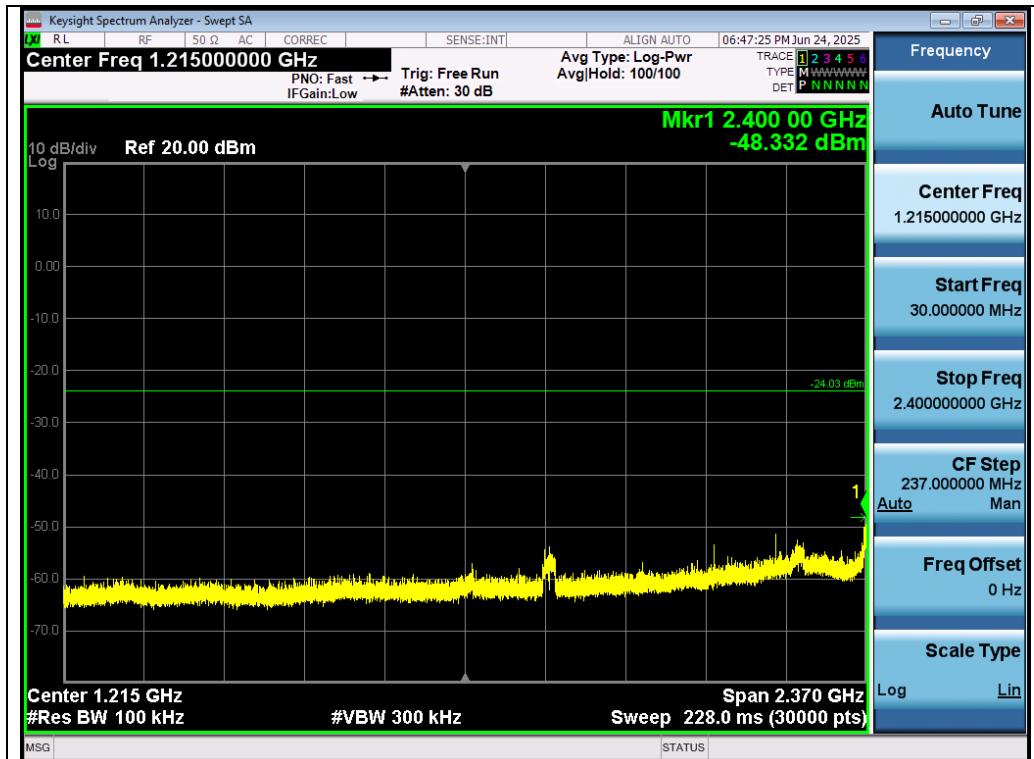
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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

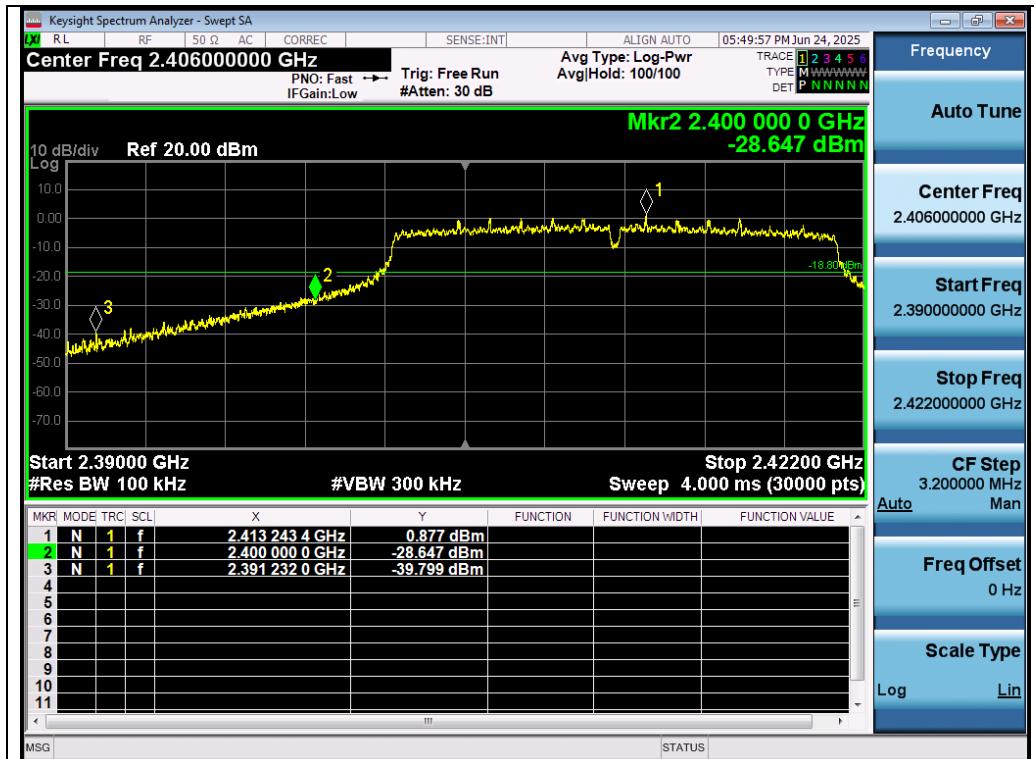


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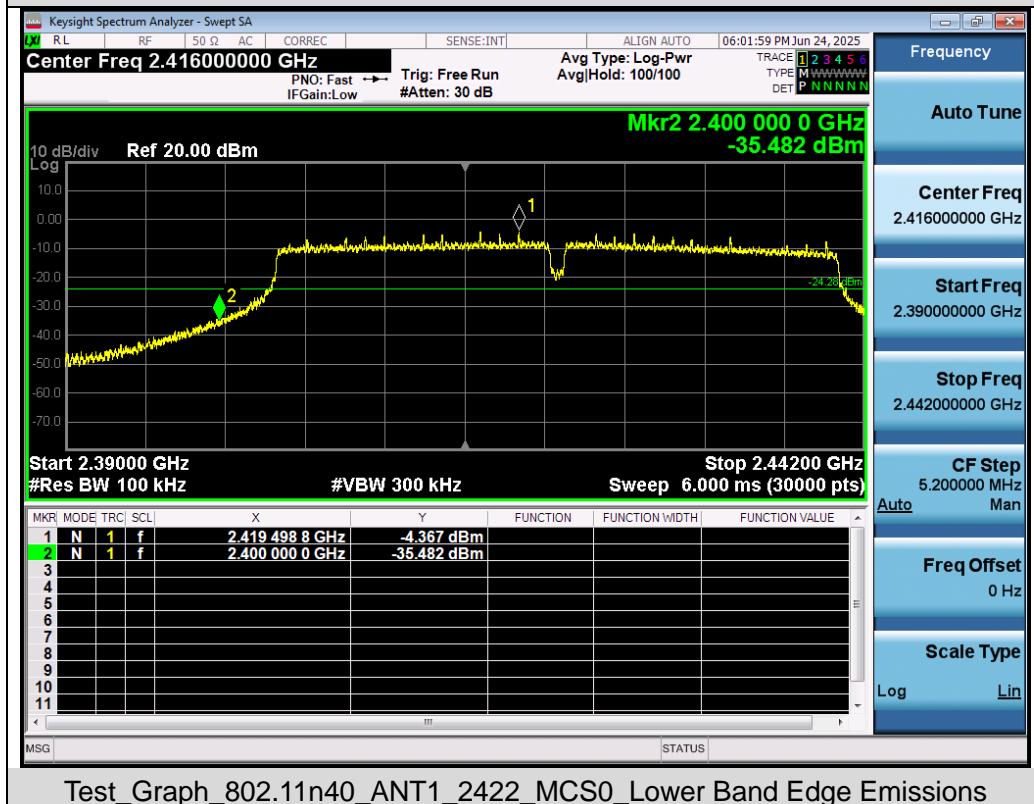
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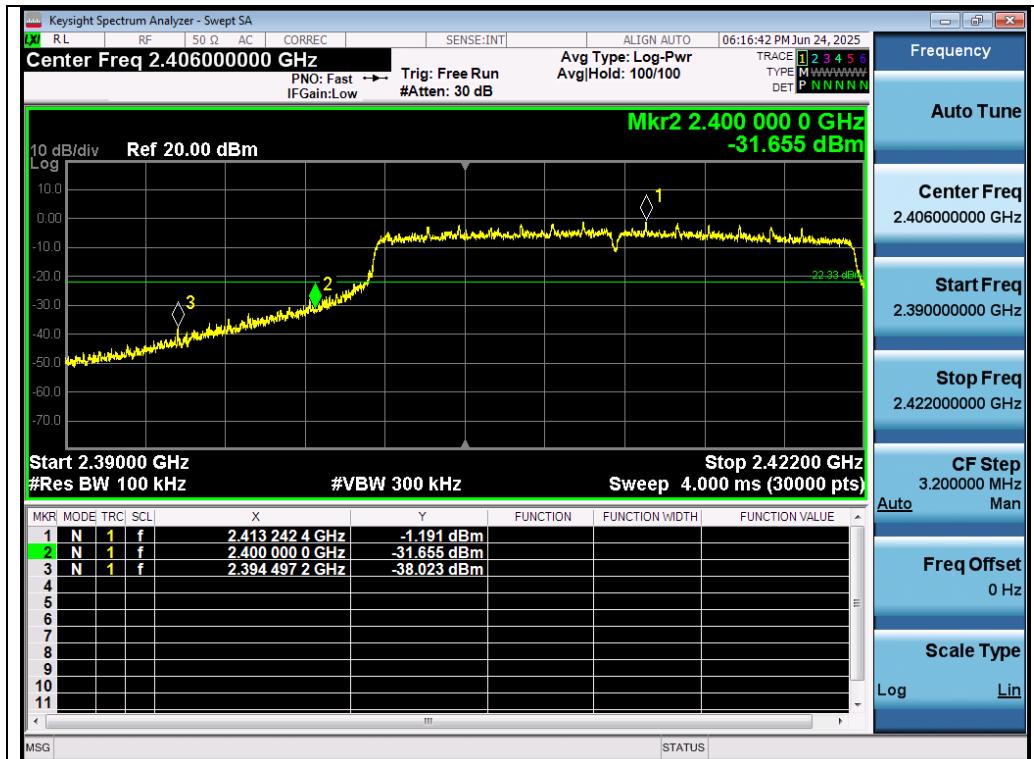
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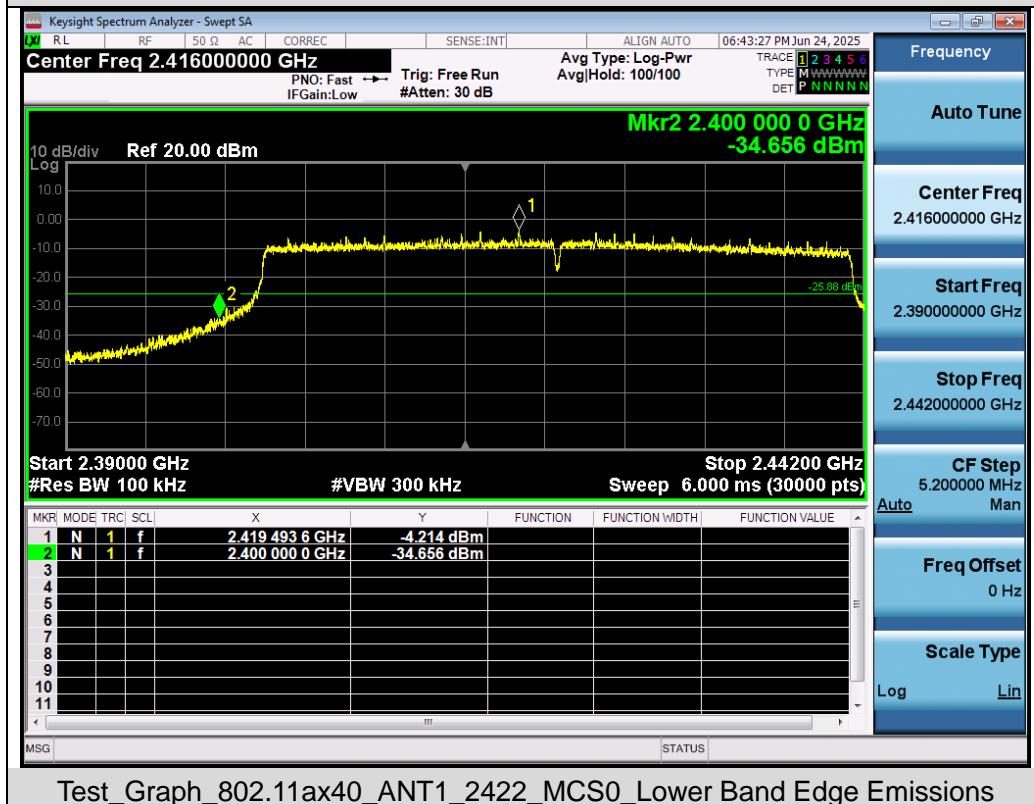
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11. Radiated Spurious Emission

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.

As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the

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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 $\geq [3 \times \text{RBW}]$
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 $[10 \times \log (1 / D)]$, where D is the duty cycle. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

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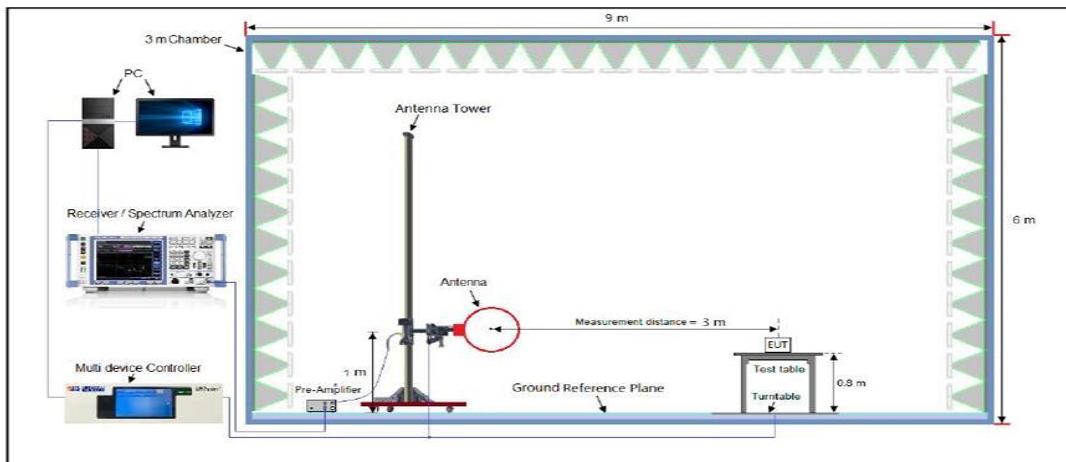
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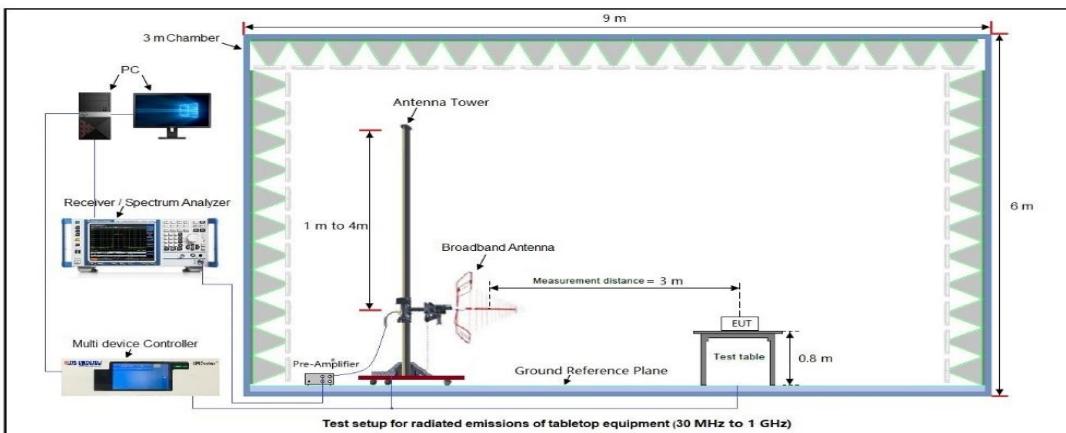
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11.3 Measurement Setup (Block Diagram of Configuration)

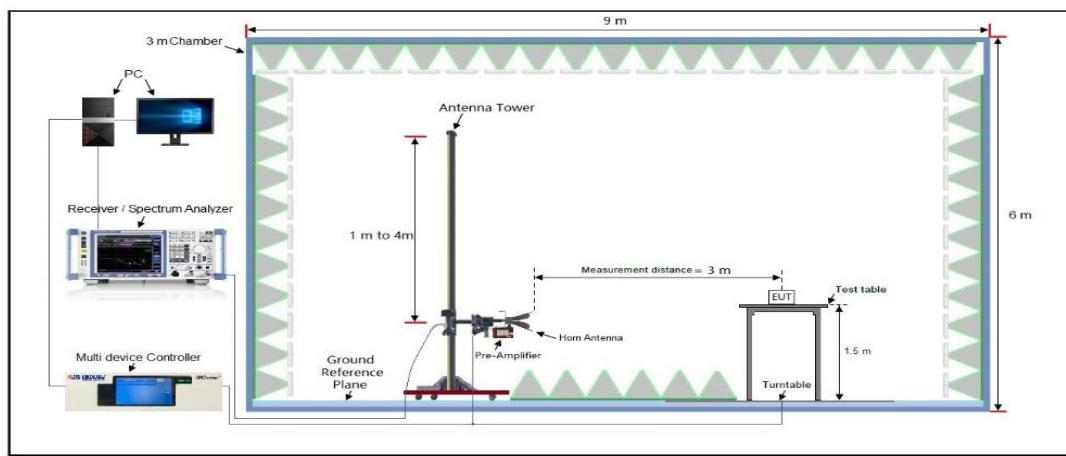
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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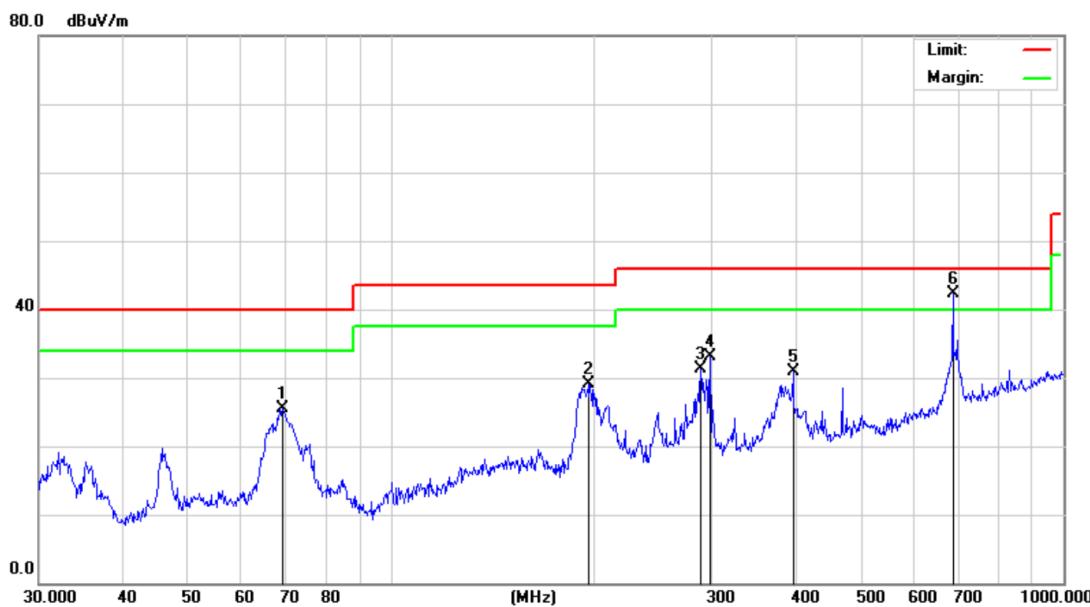
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11.4 Measurement Result

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	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.6°C	Relative Humidity	56.3%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Worst Mode	Mode 1	Antenna Polarity	Horizontal
Prototype types	1#	Verdict	Pass



Final Data List

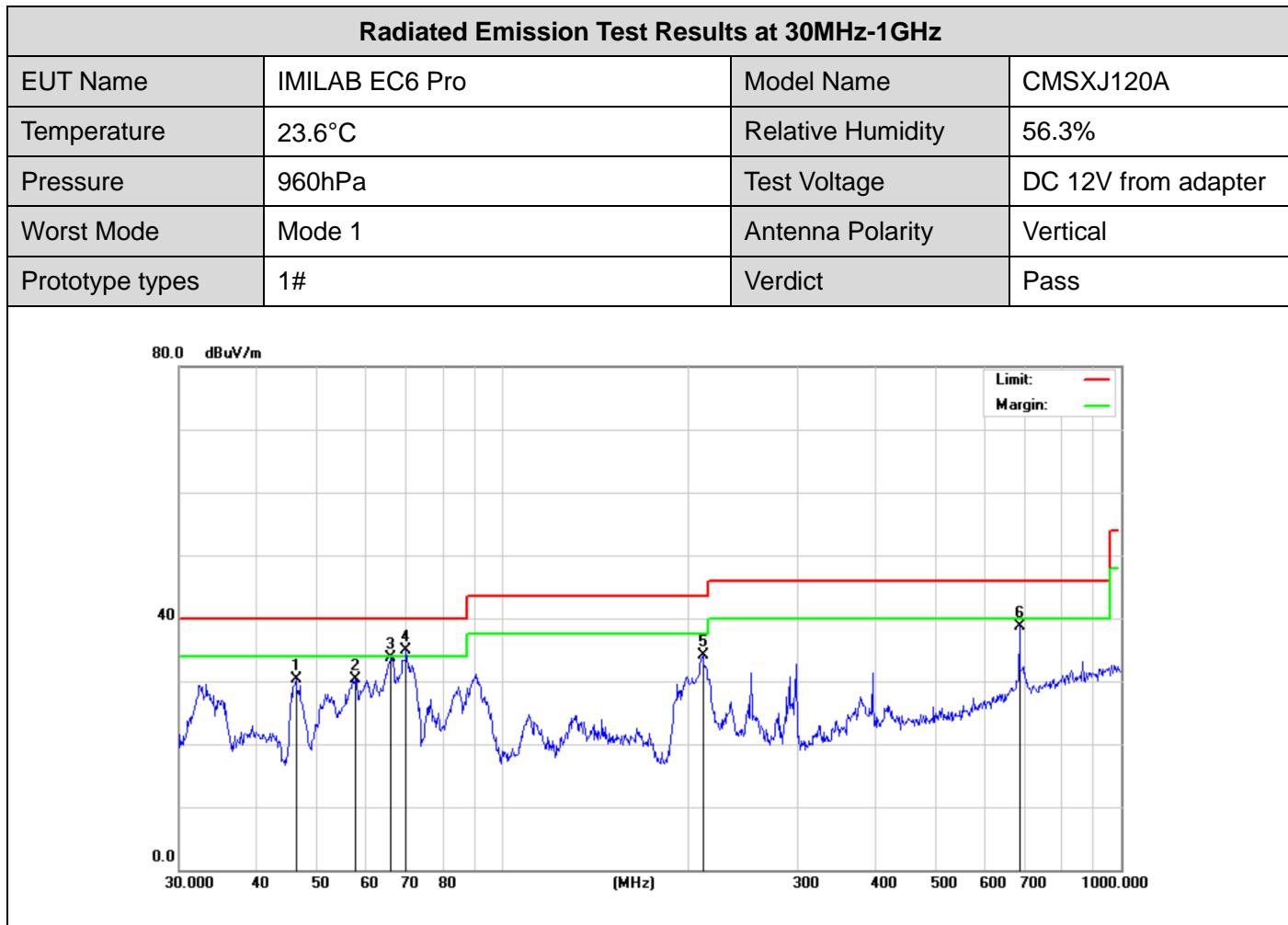
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	69.1141	25.49	-25.24	40.00	14.51	100	286	Horizontal
2	197.2001	29.10	-23.24	43.50	14.4	100	337	Horizontal
3	289.0021	31.26	-19.79	46.00	14.74	100	299	Horizontal
4	298.2681	33.08	-19.61	46.00	12.92	100	200	Horizontal
5	396.2415	30.84	-17.57	46.00	15.16	100	180	Horizontal
6	684.7454	42.28	-12.36	46.00	3.72	100	190	Horizontal

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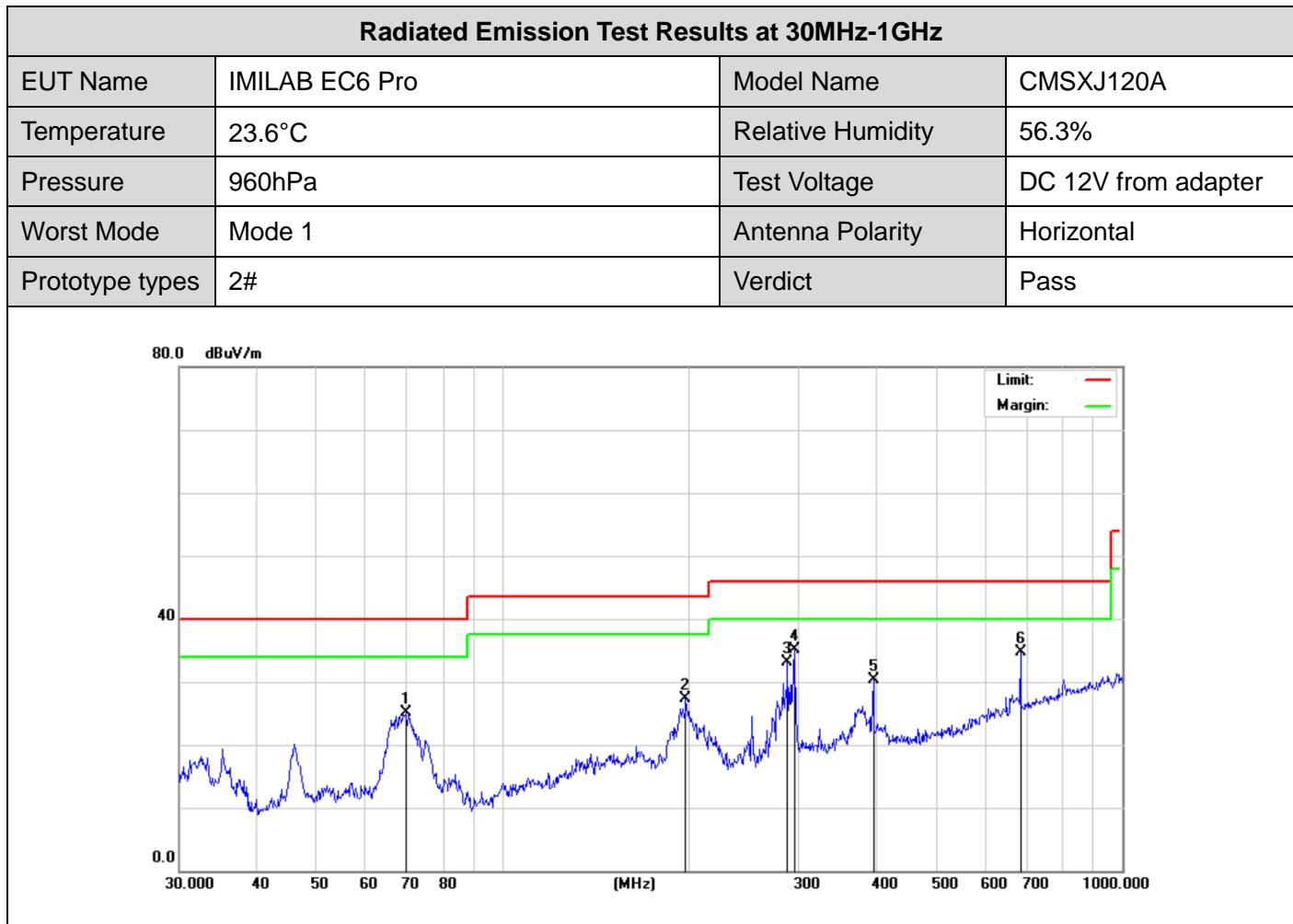
Final Data List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.3402	30.21	-21.41	40.00	9.79	100	160	Vertical
2	57.7961	30.24	-21.33	40.00	9.76	100	170	Vertical
3	66.0341	33.73	-22.25	40.00	6.27	100	90	Vertical
4	69.8449	34.85	-22.75	40.00	5.15	100	220	Vertical
5	210.7860	34.16	-22.65	43.50	9.34	100	160	Vertical
6	684.7454	38.66	-10.02	46.00	7.34	100	140	Vertical

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Final Data List

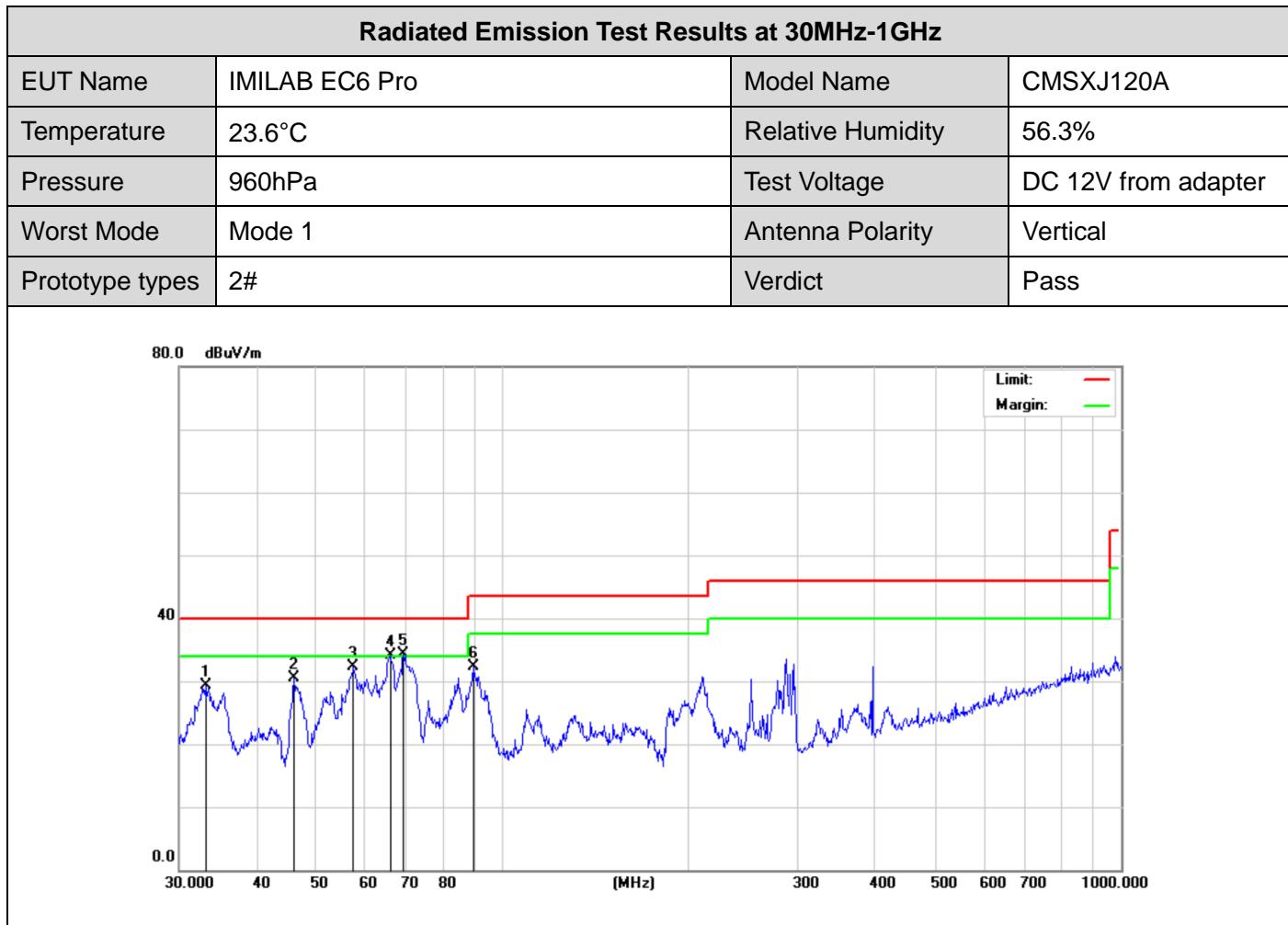
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	69.8450	25.13	-25.27	40.00	14.87	100	166	Horizontal
2	197.2001	27.30	-23.24	43.50	16.2	100	297	Horizontal
3	287.9904	33.08	-19.83	46.00	12.92	100	129	Horizontal
4	295.1469	35.04	-19.71	46.00	10.96	100	210	Horizontal
5	396.2415	30.37	-17.57	46.00	15.63	100	190	Horizontal
6	684.7454	34.62	-12.36	46.00	11.38	100	170	Horizontal

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Final Data List

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.0949	29.33	-23.21	40.00	10.67	100	120	Vertical
2	46.0162	30.48	-21.42	40.00	9.52	100	190	Vertical
3	57.3922	32.31	-21.31	40.00	7.69	100	80	Vertical
4	65.8031	34.13	-22.23	40.00	5.87	100	240	Vertical
5	69.1140	34.30	-22.61	40.00	5.7	100	190	Vertical
6	89.5899	32.32	-26.52	43.50	11.18	100	180	Vertical

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	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal
Prototype types	1#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824.000	49.73	0.08	49.81	74.00	-24.19	peak
4824.000	40.67	0.08	40.75	54.00	-13.25	AVG
7236.000	49.50	2.21	51.71	74.00	-22.29	peak
7236.000	40.26	2.21	42.47	54.00	-11.53	AVG

Remark:

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

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 1	Antenna Polarity	Vertical
Prototype types	1#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824.000	49.19	0.08	49.27	74.00	-24.73	peak
4824.000	41.89	0.08	41.97	54.00	-12.03	AVG
7236.000	50.75	2.21	52.96	74.00	-21.04	peak
7236.000	40.08	2.21	42.29	54.00	-11.71	AVG

Remark:

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

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Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 2	Antenna Polarity	Horizontal
Prototype types	1#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874.000	50.80	0.14	50.94	74.00	-23.06	peak
4874.000	40.31	0.14	40.45	54.00	-13.55	AVG
7311.000	49.62	2.36	51.98	74.00	-22.02	peak
7311.000	40.14	2.36	42.50	54.00	-11.50	AVG

Remark:

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

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 2	Antenna Polarity	Vertical
Prototype types	1#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874.000	50.53	0.14	50.67	74.00	-23.33	peak
4874.000	41.49	0.14	41.63	54.00	-12.37	AVG
7311.000	50.44	2.36	52.80	74.00	-21.20	peak
7311.000	41.27	2.36	43.63	54.00	-10.37	AVG

Remark:

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

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Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal
Prototype types	1#	Verdict	Pass

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4924.000	49.47	0.22	49.69	74.00	-24.31	peak
4924.000	41.51	0.22	41.73	54.00	-12.27	AVG
7386.000	50.69	2.64	53.33	74.00	-20.67	peak
7386.000	41.38	2.64	44.02	54.00	-9.98	AVG

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

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 3	Antenna Polarity	Vertical
Prototype types	1#	Verdict	Pass

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4924.000	50.00	0.22	50.22	74.00	-23.78	peak
4924.000	41.81	0.22	42.03	54.00	-11.97	AVG
7386.000	49.09	2.64	51.73	74.00	-22.27	peak
7386.000	40.98	2.64	43.62	54.00	-10.38	AVG

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

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Radiated Emissions Test Results above 1 GHz

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal
Prototype types	2#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824.000	50.40	0.08	50.48	74.00	-23.52	peak
4824.000	40.19	0.08	40.27	54.00	-13.73	AVG
7236.000	50.89	2.21	53.10	74.00	-20.90	peak
7236.000	41.35	2.21	43.56	54.00	-10.44	AVG

Remark:

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

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 1	Antenna Polarity	Vertical
Prototype types	2#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824.000	50.43	0.08	50.51	74.00	-23.49	peak
4824.000	40.85	0.08	40.93	54.00	-13.07	AVG
7236.000	49.32	2.21	51.53	74.00	-22.47	peak
7236.000	40.42	2.21	42.63	54.00	-11.37	AVG

Remark:

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

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Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 2	Antenna Polarity	Horizontal
Prototype types	2#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874.000	50.69	0.14	50.83	74.00	-23.17	peak
4874.000	40.77	0.14	40.91	54.00	-13.09	AVG
7311.000	50.01	2.36	52.37	74.00	-21.63	peak
7311.000	40.22	2.36	42.58	54.00	-11.42	AVG

Remark:

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

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 2	Antenna Polarity	Vertical
Prototype types	2#	Verdict	Pass

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874.000	50.66	0.14	50.80	74.00	-23.20	peak
4874.000	40.46	0.14	40.60	54.00	-13.40	AVG
7311.000	49.74	2.36	52.10	74.00	-21.90	peak
7311.000	40.38	2.36	42.74	54.00	-11.26	AVG

Remark:

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

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Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal
Prototype types	2#	Verdict	Pass

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4924.000	48.57	0.22	48.79	74.00	-25.21	peak
4924.000	40.66	0.22	40.88	54.00	-13.12	AVG
7386.000	50.79	2.64	53.43	74.00	-20.57	peak
7386.000	40.16	2.64	42.80	54.00	-11.20	AVG

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

EUT Name	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	DC 12V from adapter
Test Mode	Mode 3	Antenna Polarity	Vertical
Prototype types	2#	Verdict	Pass

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4924.000	48.20	0.22	48.42	74.00	-25.58	peak
4924.000	41.84	0.22	42.06	54.00	-11.94	AVG
7386.000	49.78	2.64	52.42	74.00	-21.58	peak
7386.000	39.57	2.64	42.21	54.00	-11.79	AVG

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

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.

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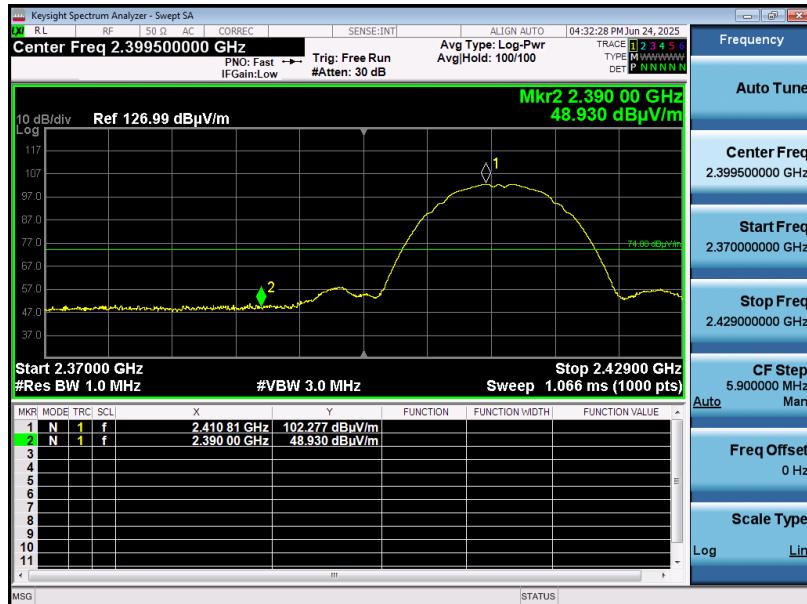
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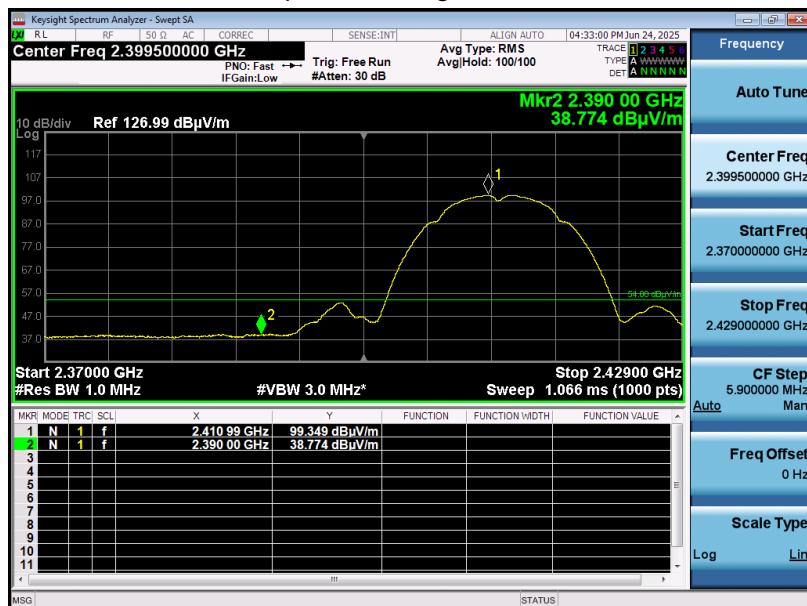
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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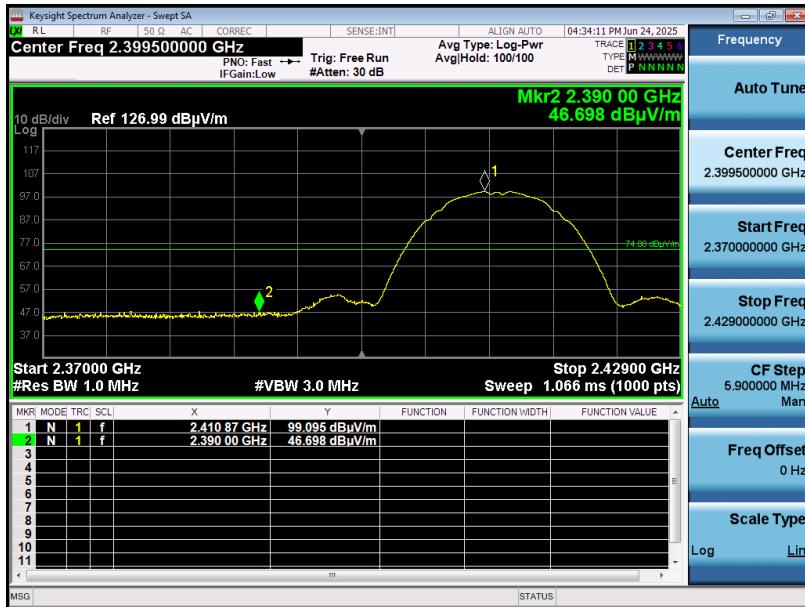
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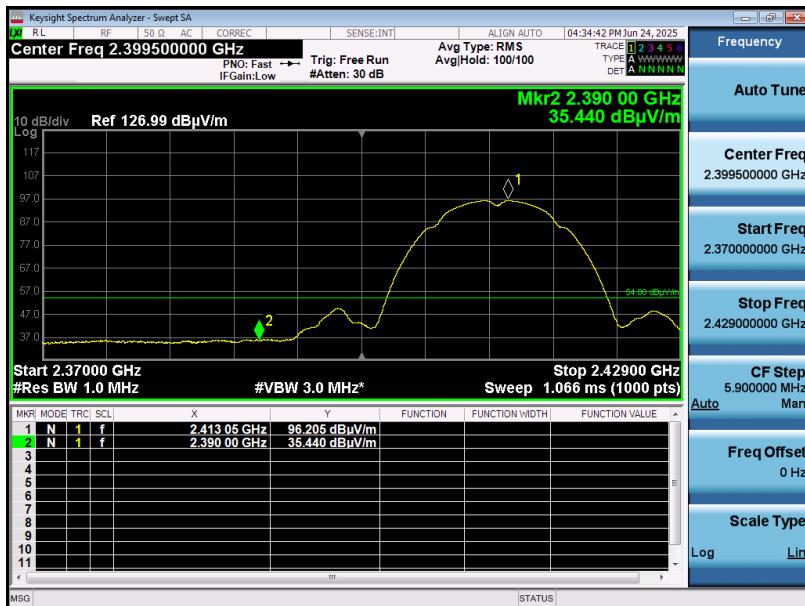
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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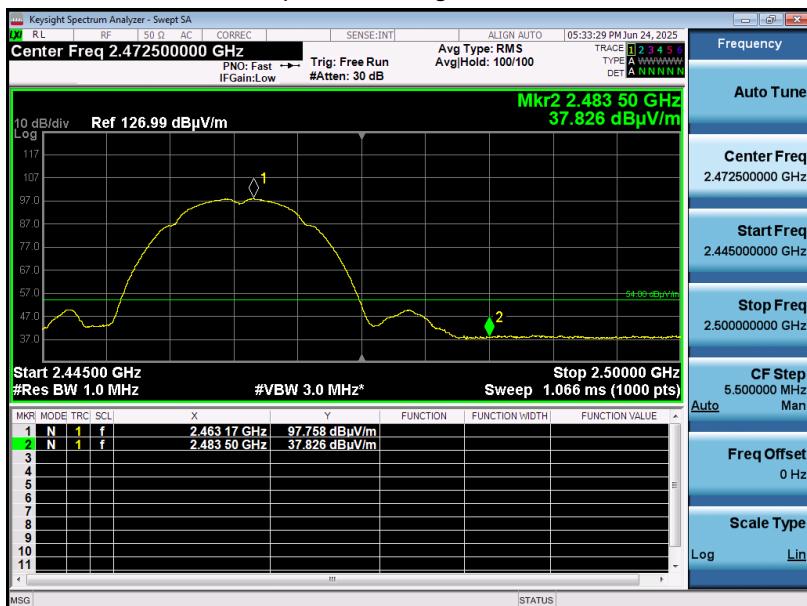
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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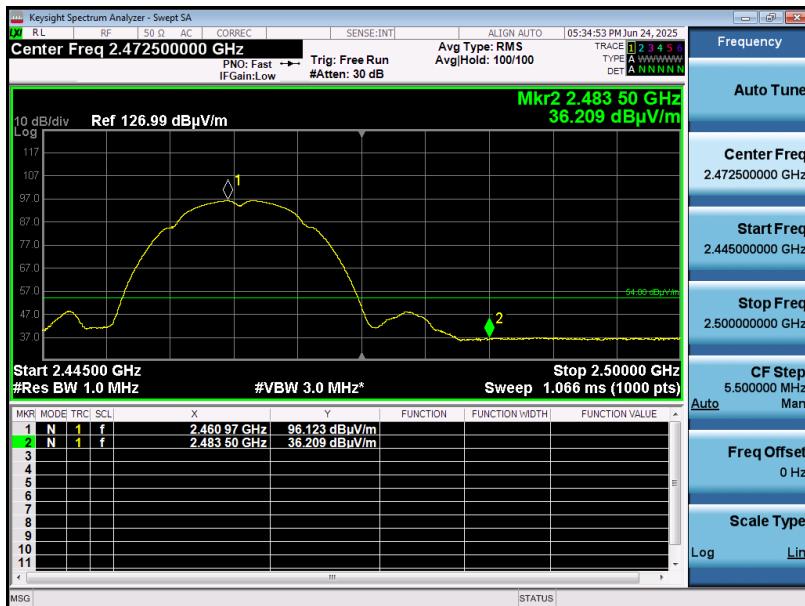
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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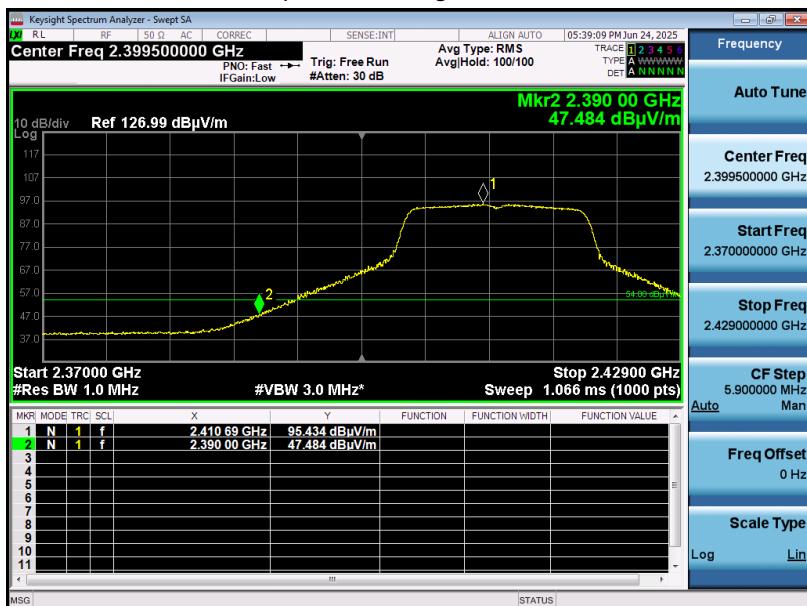
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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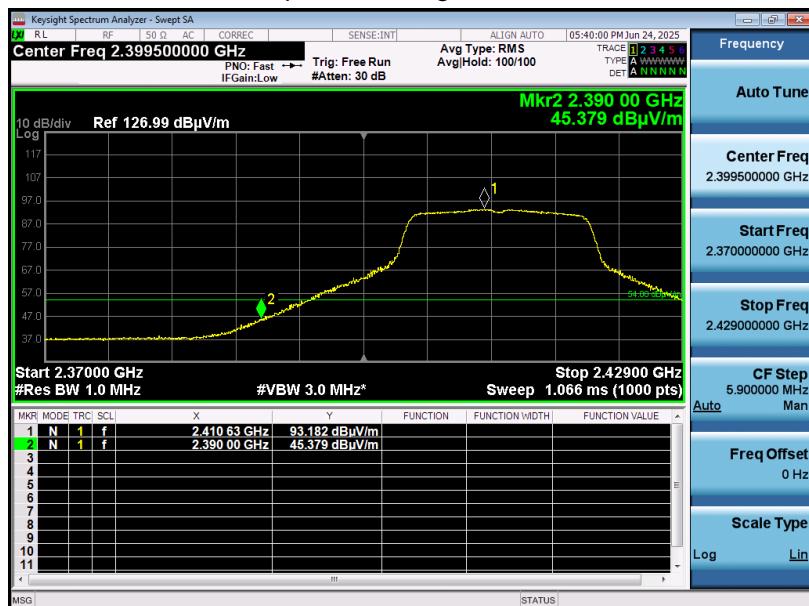
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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 15 days 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.

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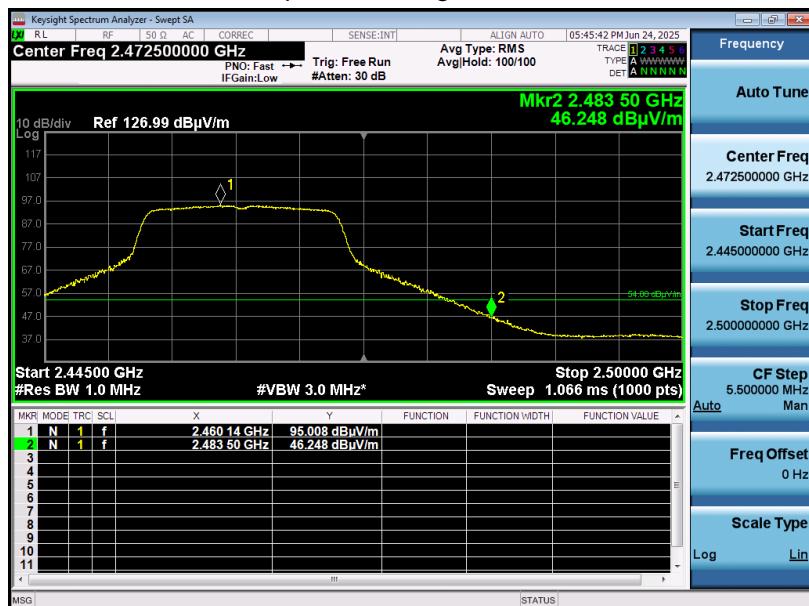
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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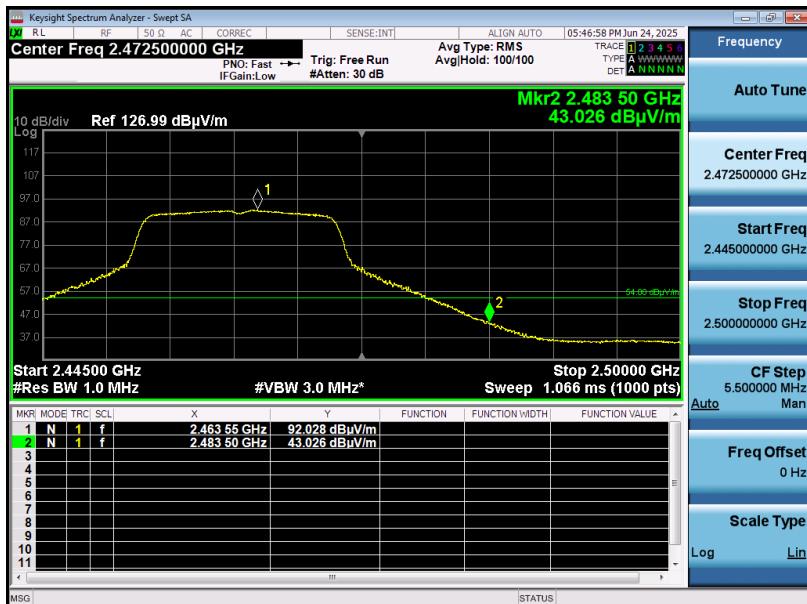
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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 15 days 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.

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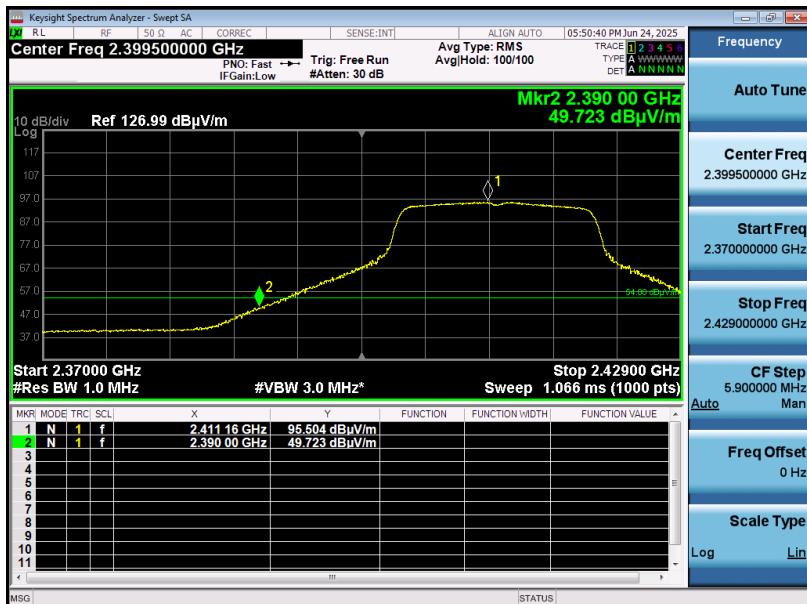
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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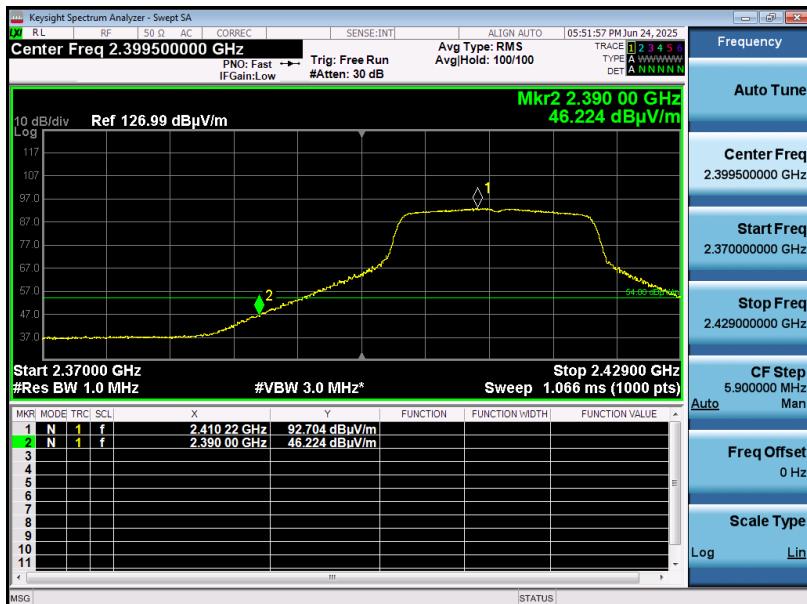
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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 15 days 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.

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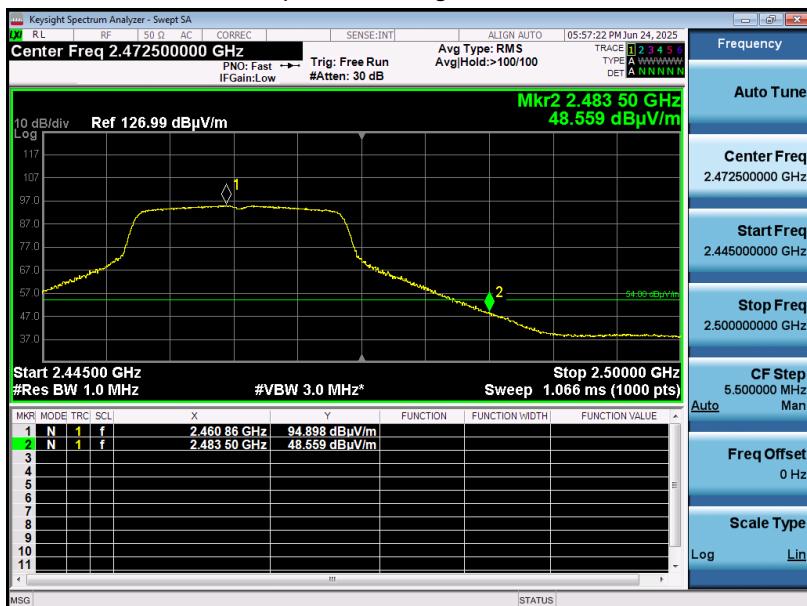
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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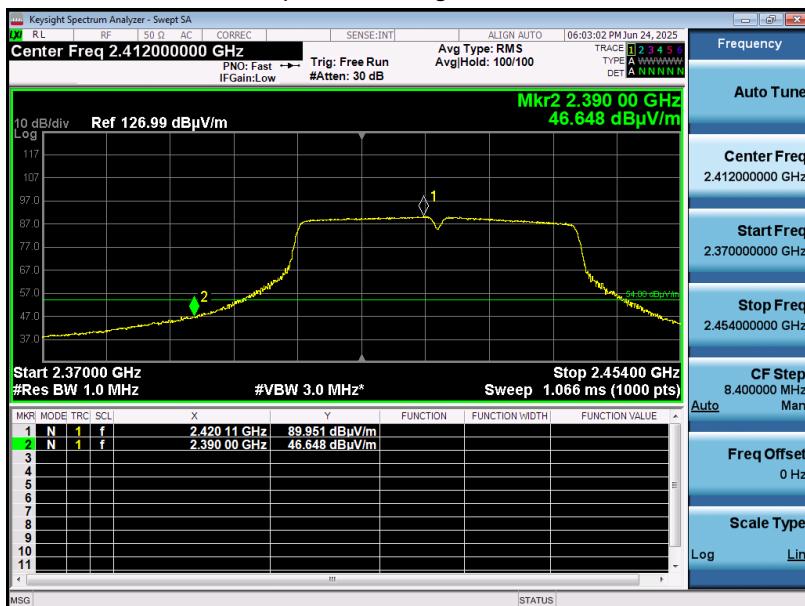
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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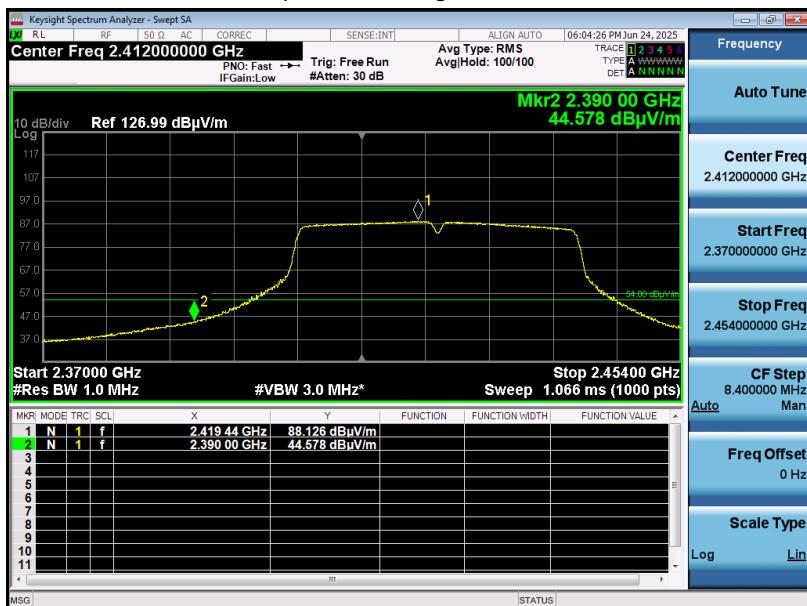
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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.

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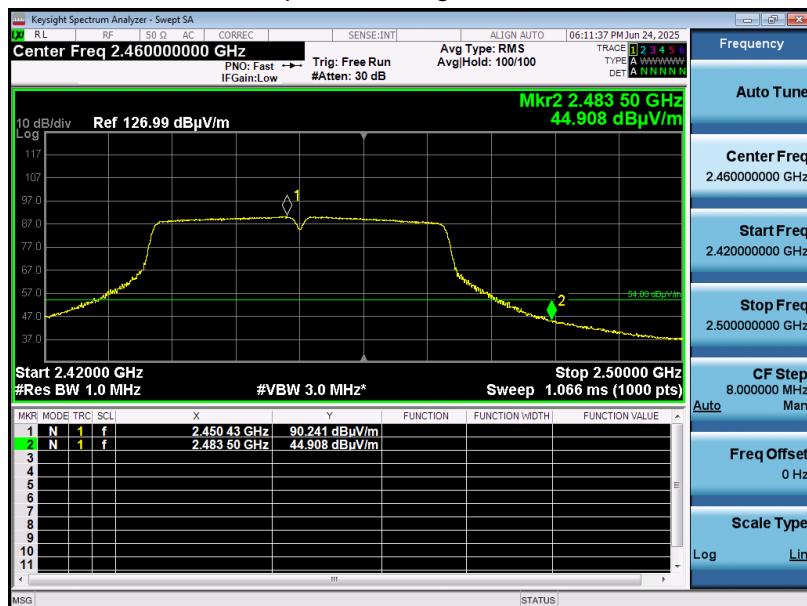
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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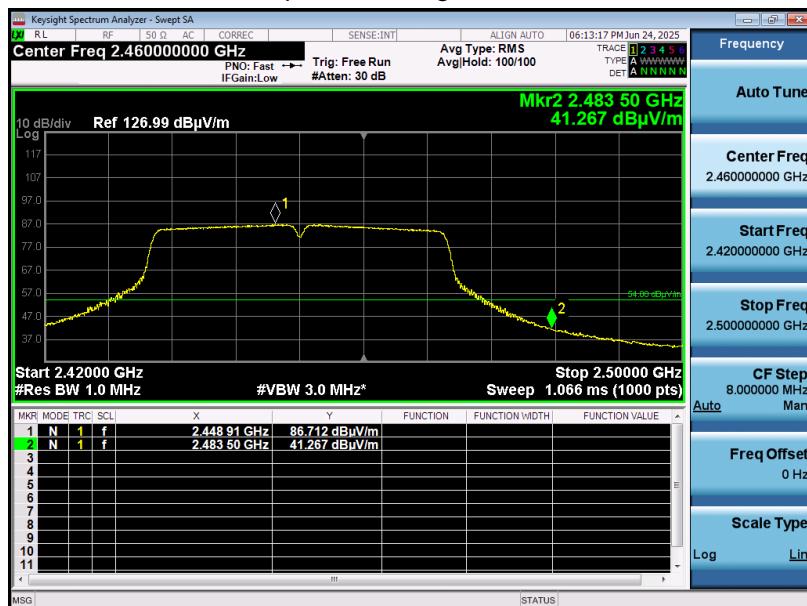
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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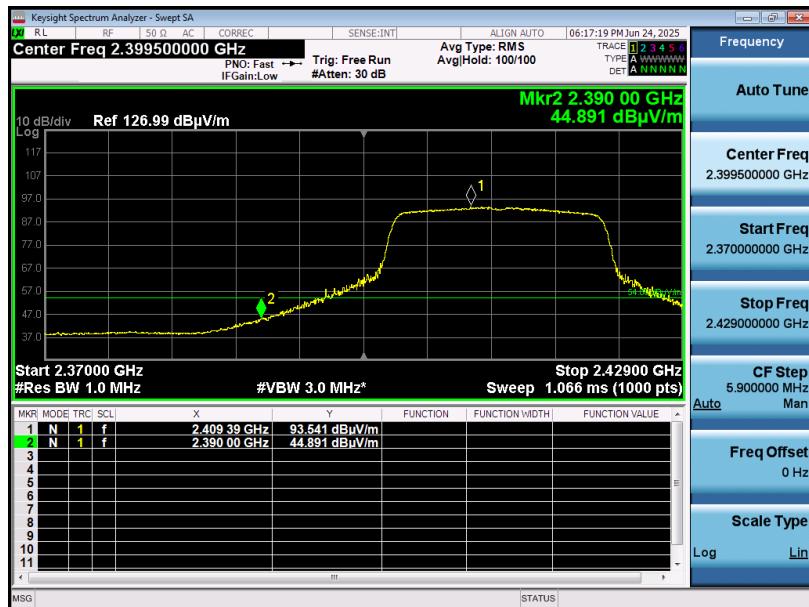
Test result for band edge emission at restricted bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 13	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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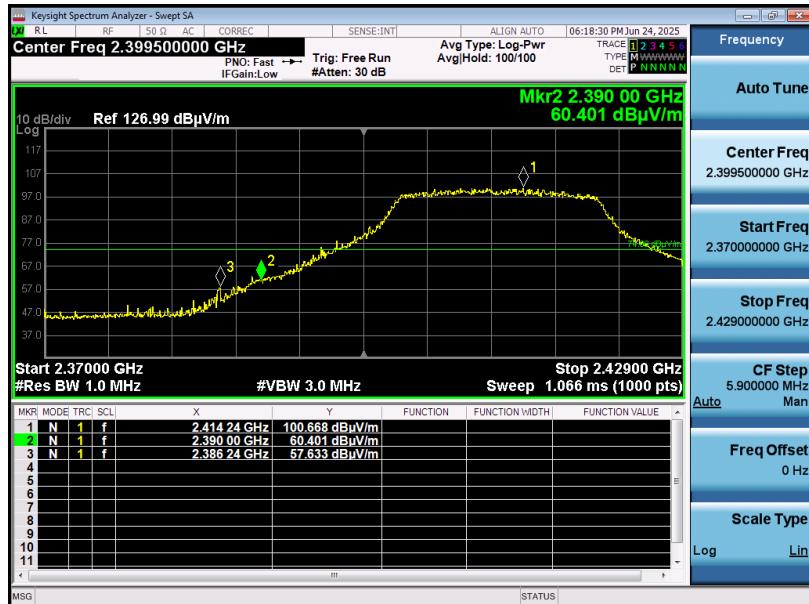
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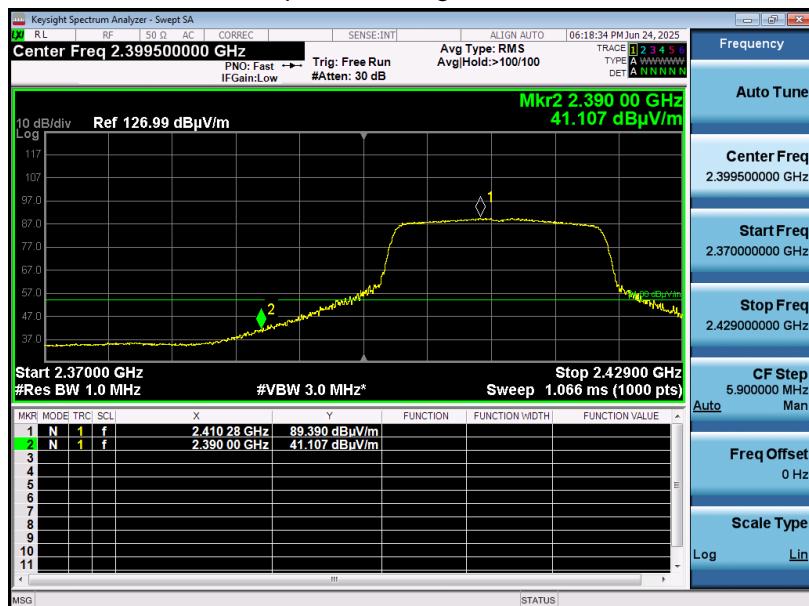
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 13	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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 15 days 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.

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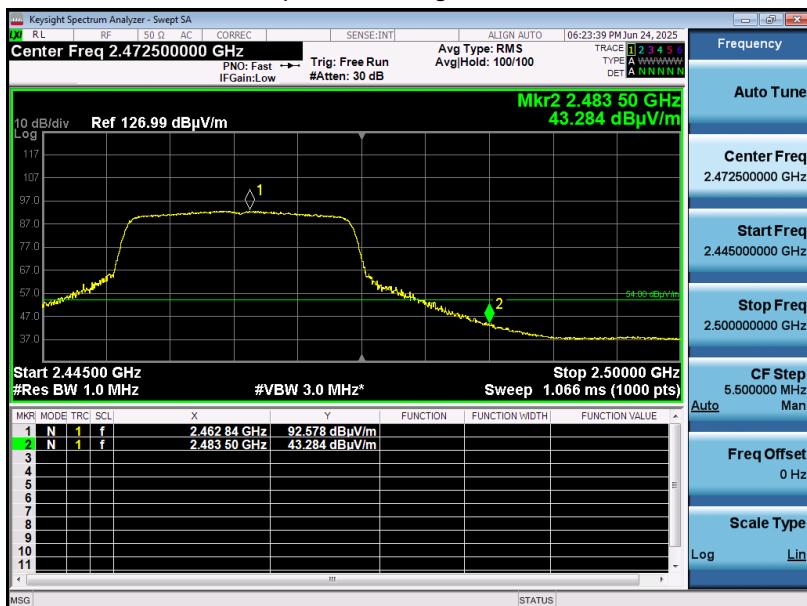
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 15	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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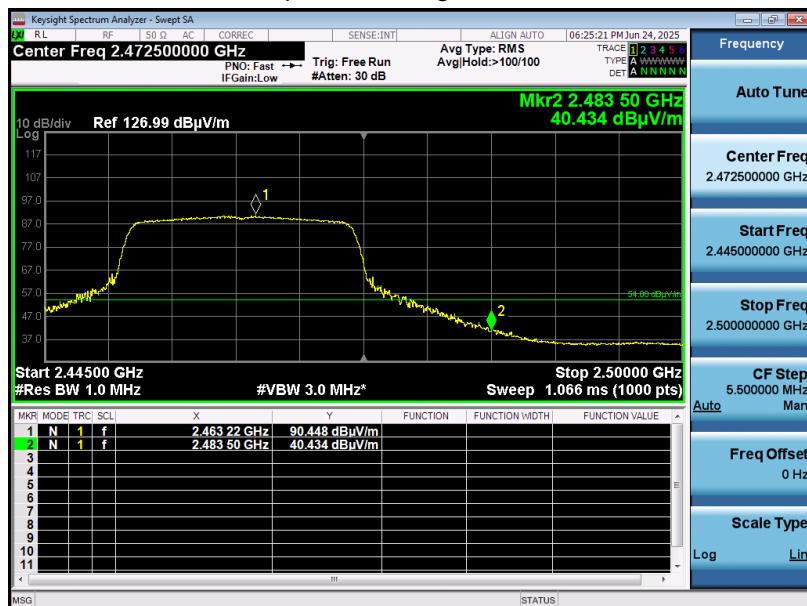
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 15	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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 15 days 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.

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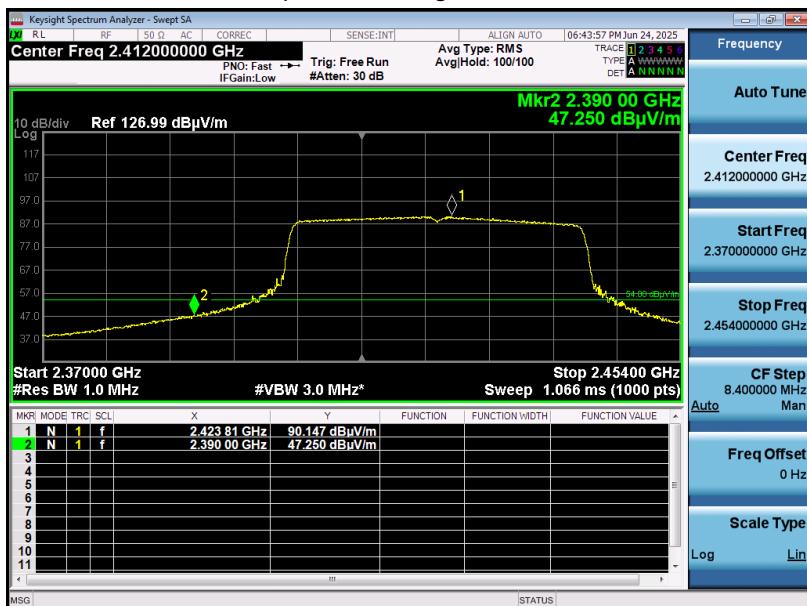
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 16	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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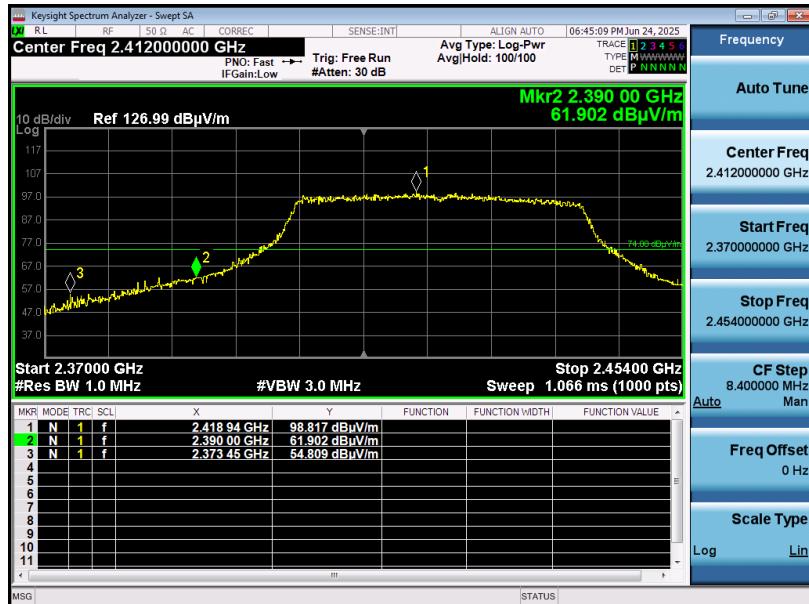
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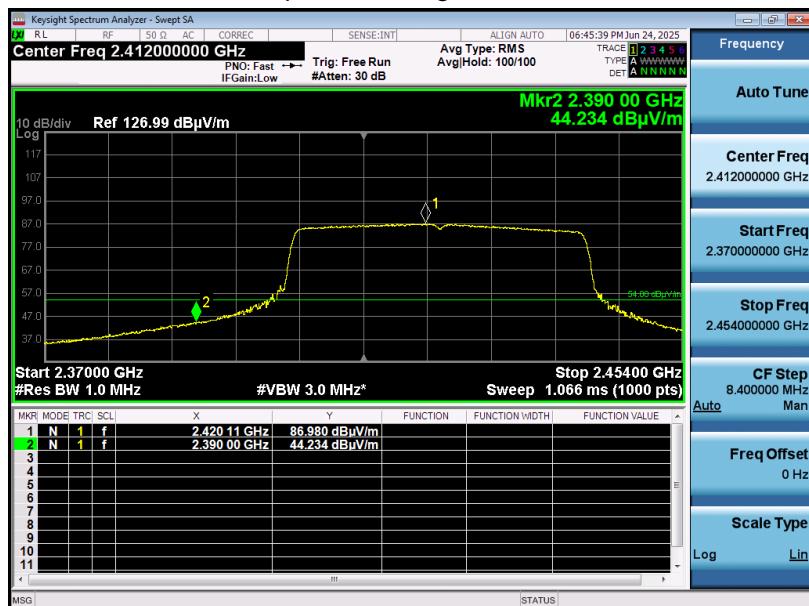
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 16	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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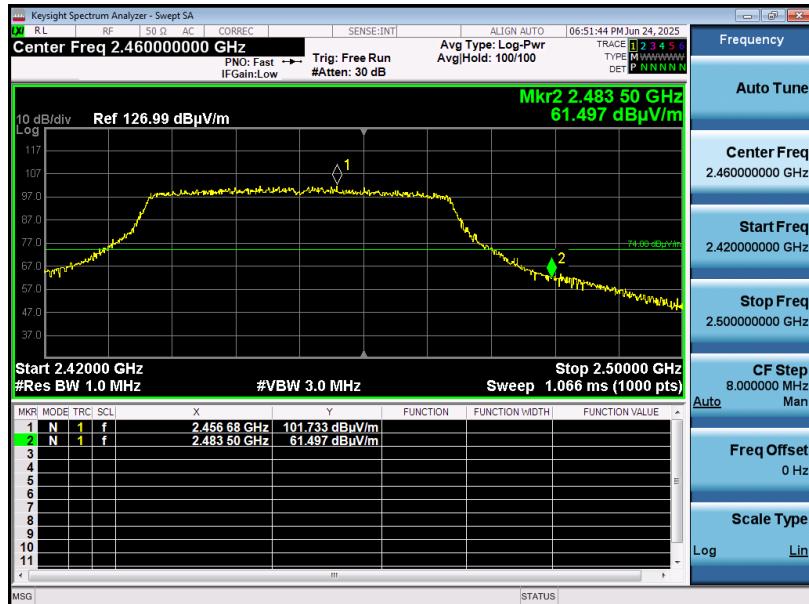
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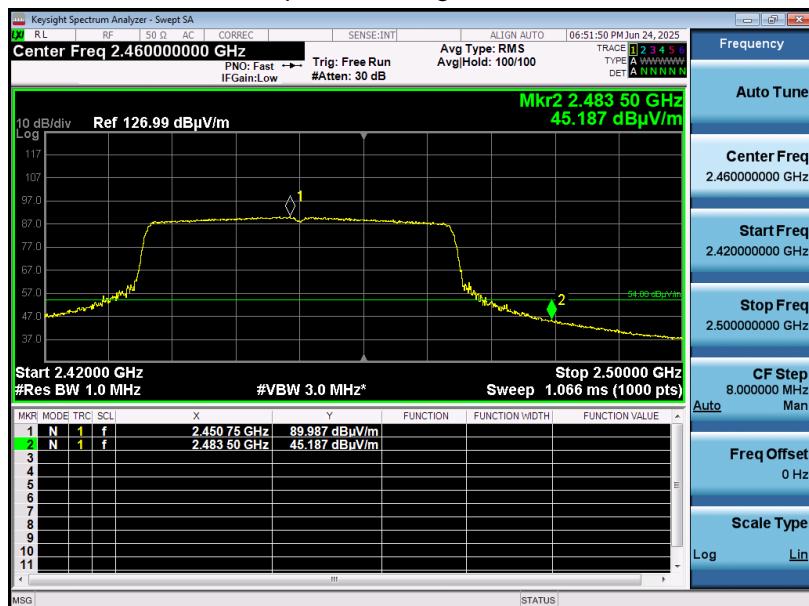
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 18	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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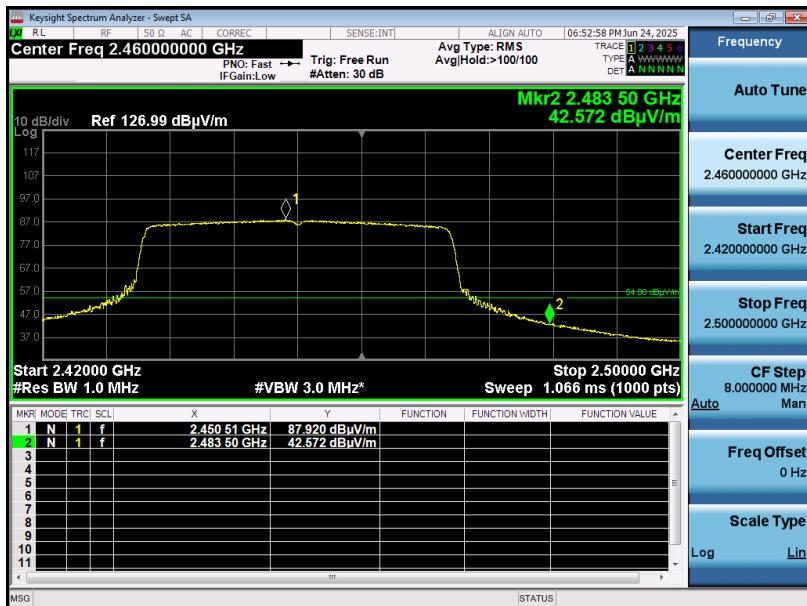
Band Edge Emission Test Results for Restricted Bands

EUT	IMILAB EC6 Pro	Model Name	CMSXJ120A
Temperature	23.7°C	Relative Humidity	41%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 18	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement


Result: Pass

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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12. AC Power Line Conducted Emission

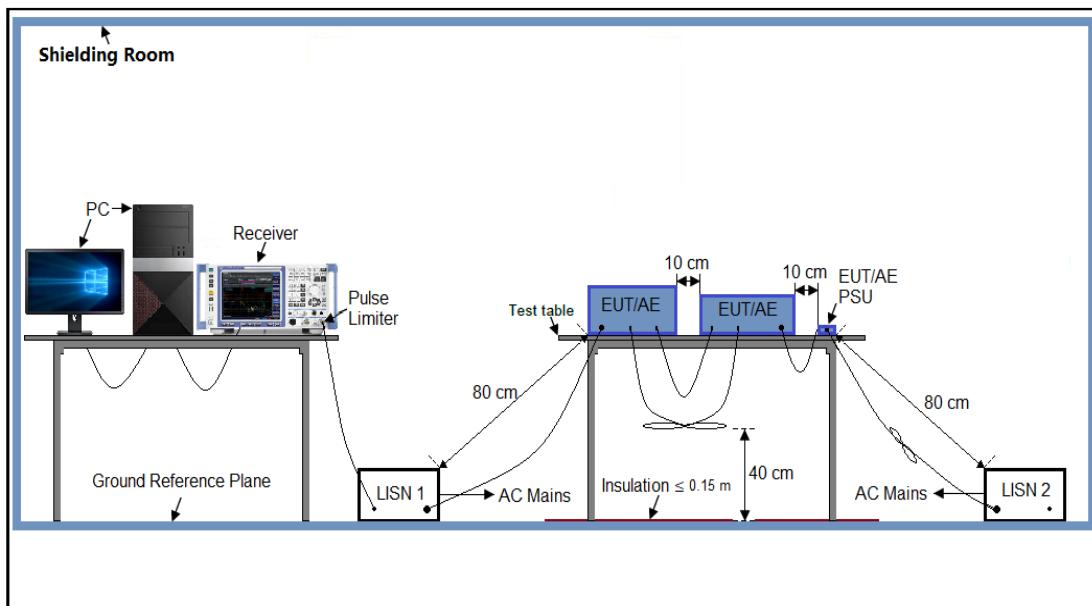
12.1 Measurement Limits

Frequency	Maximum RF Line Voltage	
	Q.P (dB μ V)	Average (dB μ V)
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 12V 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).
7. 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.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. 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 (dB μ V) = Receiver reading (dB μ V) + 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									
Prototype types	1#		Verdict		Pass									
MEASUREMENT RESULT: "agc_fin"														
2025/6/24 22:08														
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line								
0.162000	40.30	9.9	65	25.1	QP	L1								
0.202000	34.70	9.9	64	28.8	QP	L1								
0.538000	32.90	9.9	56	23.1	QP	L1								
0.810000	25.50	9.9	56	30.5	QP	L1								
0.950000	25.20	9.9	56	30.8	QP	L1								
1.110000	25.60	9.9	56	30.4	QP	L1								
MEASUREMENT RESULT: "agc_fin2"														
2025/6/24 22:08														
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line								
0.162000	27.70	9.9	55	27.7	AV	L1								
0.546000	25.70	9.9	46	20.3	AV	L1								
1.146000	20.30	9.9	46	25.7	AV	L1								
2.126000	17.00	9.9	46	29.0	AV	L1								
10.286000	13.90	10.2	50	36.1	AV	L1								
15.974000	19.40	10.6	50	30.6	AV	L1								

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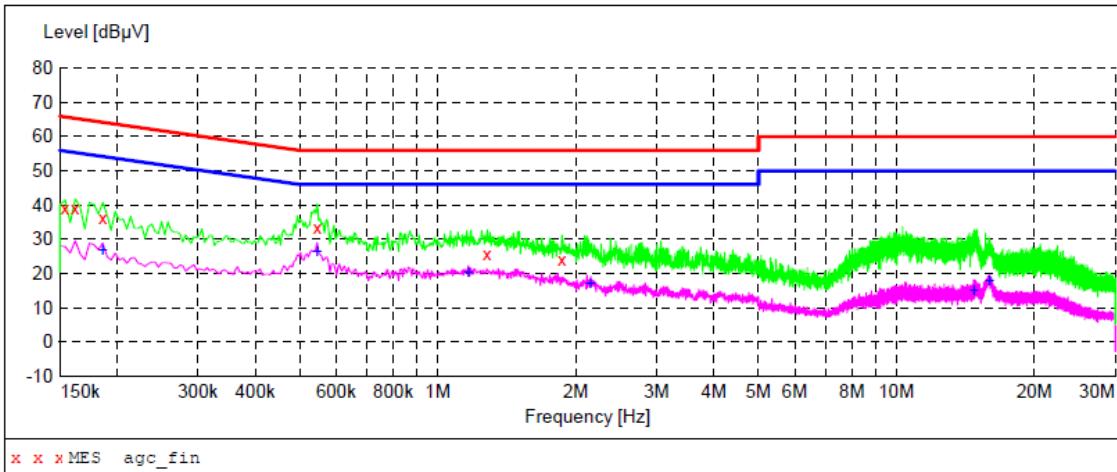
AC Power Line Conducted Emission Test																																																								
Test Mode	Mode 1		LISN Line		Neutral Side																																																			
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2025/6/24 22:11																																																								
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AC Power Line Conducted Emission Test						
Test Mode	Mode 1	LISN Line	Hot Side			
Prototype types	2#	Verdict	Pass			
						
MEASUREMENT RESULT: "agc_fin"						
2025/6/24 22:32						
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.154000	39.00	9.9	66	26.8	QP	L1
0.162000	38.90	9.9	65	26.5	QP	L1
0.186000	36.20	9.9	64	28.0	QP	L1
0.546000	33.40	9.9	56	22.6	QP	L1
1.282000	25.70	9.9	56	30.3	QP	L1
1.866000	23.90	9.9	56	32.1	QP	L1
MEASUREMENT RESULT: "agc_fin2"						
2025/6/24 22:32						
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.186000	26.80	9.9	54	27.4	AV	L1
0.546000	26.40	9.9	46	19.6	AV	L1
1.166000	20.50	9.9	46	25.5	AV	L1
2.154000	17.30	9.9	46	28.7	AV	L1
14.758000	15.20	10.5	50	34.8	AV	L1
15.950000	17.90	10.6	50	32.1	AV	L1

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AC Power Line Conducted Emission Test														
Test Mode	Mode 1		LISN Line		Neutral Side									
Prototype types	2#		Verdict		Pass									
MEASUREMENT RESULT: "agc_fin"														
2025/6/24 22:35														
Frequency	Level	Transd	Limit	Margin	Detector	Line								
MHz	dBμV	dB	dBμV	dB										
0.166000	35.50	9.9	65	29.7	QP	N								
0.182000	36.60	9.9	64	27.8	QP	N								
0.546000	28.00	9.9	56	28.0	QP	N								
1.278000	24.50	9.9	56	31.5	QP	N								
2.162000	20.10	9.9	56	35.9	QP	N								
9.430000	23.90	10.2	60	36.1	QP	N								
MEASUREMENT RESULT: "agc_fin2"														
2025/6/24 22:35														
Frequency	Level	Transd	Limit	Margin	Detector	Line								
MHz	dBμV	dB	dBμV	dB										
0.182000	25.20	9.9	54	29.2	AV	N								
0.546000	21.90	9.9	46	24.1	AV	N								
1.370000	19.40	9.9	46	26.6	AV	N								
2.138000	15.00	9.9	46	31.0	AV	N								
9.046000	15.30	10.2	50	34.7	AV	N								
15.826000	15.90	10.6	50	34.1	AV	N								

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC05877250601AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC05877250601AP03

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

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