

**CF Step** 2.251650000 GHz

Freq Offset 0 Hz

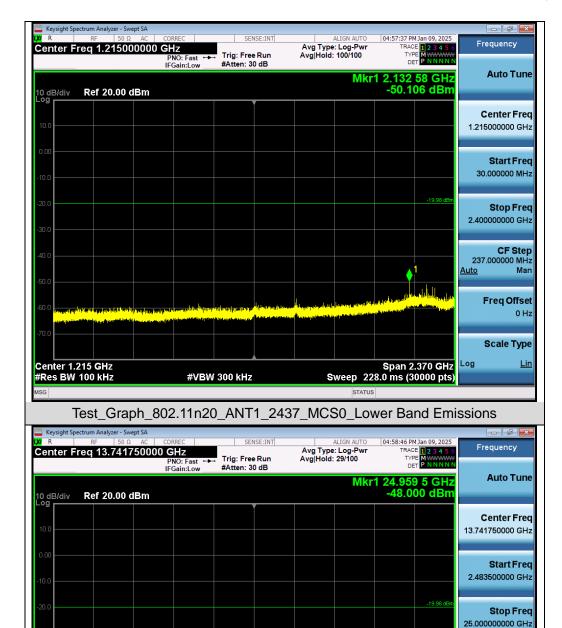
Scale Type

Man

<u>Auto</u>

Span 22.52 GHz Sweep 2.152 s (30000 pts)



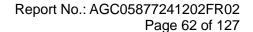


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Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_Higher Band Emissions

#VBW 300 kHz

Center 13.74 GHz #Res BW 100 kHz

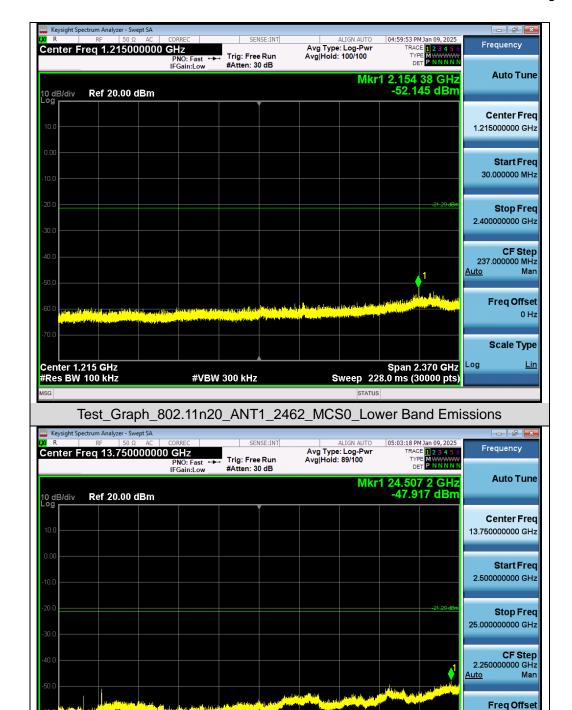


0 Hz

Scale Type

Span 22.50 GHz Sweep 2.152 s (30000 pts)



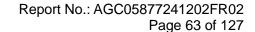


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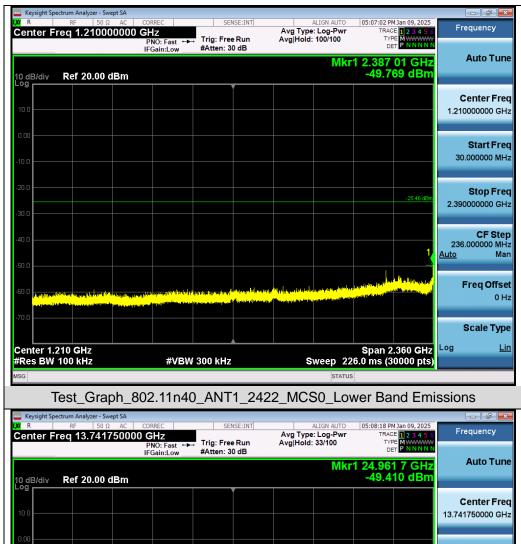
Test Graph 802.11n20 ANT1 2462 MCS0 Higher Band Emissions

#VBW 300 kHz

Center 13.75 GHz #Res BW 100 kHz







100

Start Freq
2.483500000 GHz

Stop Freq
25.000000000 GHz

Stop Freq
25.000000000 GHz

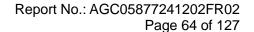
CF Step
2.251650000 GHz

Auto Man

Freq Offset
0 Hz

Scale Type
Center 13.74 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.152 s (30000 pts)

Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_Higher Band Emissions

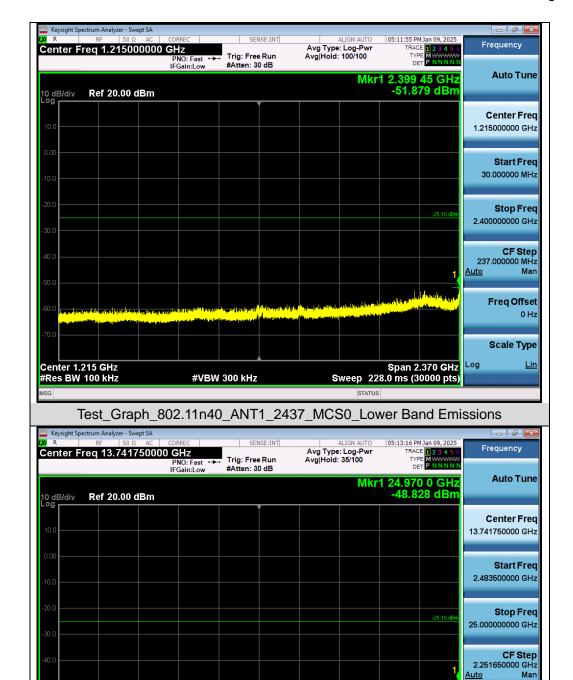


Freq Offset 0 Hz

Scale Type

Span 22.52 GHz Sweep 2.152 s (30000 pts)



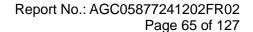


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Test\_Graph\_802.11n40\_ANT1\_2437\_MCS0\_Higher Band Emissions

#VBW 300 kHz

Center 13.74 GĤz #Res BW 100 kHz

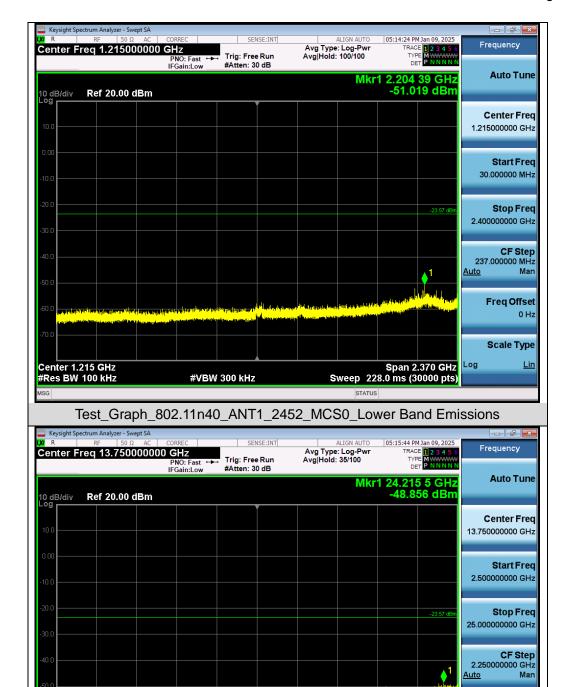


Freq Offset 0 Hz

Scale Type

Span 22.50 GHz Sweep 2.152 s (30000 pts)



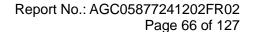


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

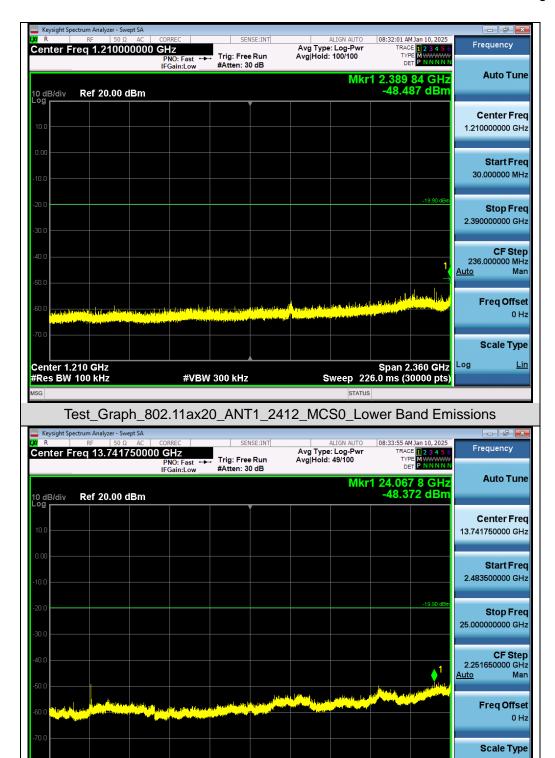
Test Graph 802.11n40 ANT1 2452 MCS0 Higher Band Emissions

#VBW 300 kHz

Center 13.75 GHz #Res BW 100 kHz







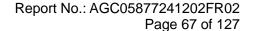
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Test\_Graph\_802.11ax20\_ANT1\_2412\_MCS0\_Higher Band Emissions

#VBW 300 kHz

Span 22.52 GHz Sweep 2.152 s (30000 pts)

Center 13.74 GHz #Res BW 100 kHz



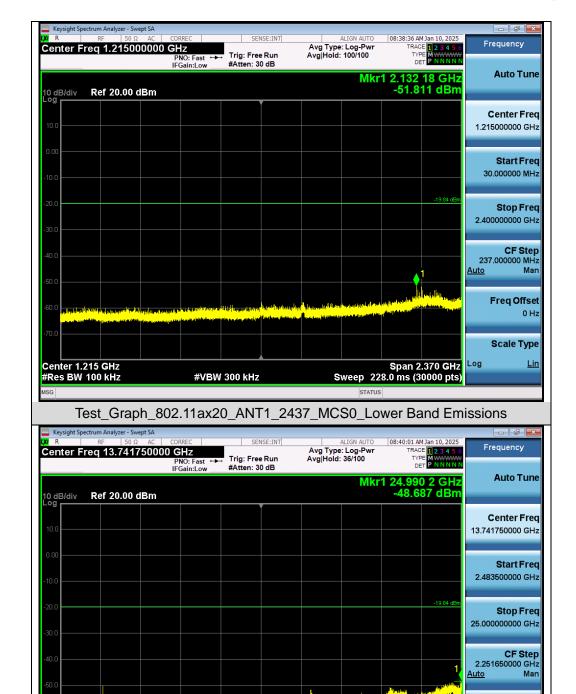
Freq Offset 0 Hz

Scale Type

Lin

Span 22.52 GHz Sweep 2.152 s (30000 pts)



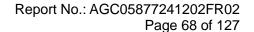


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Test\_Graph\_802.11ax20\_ANT1\_2437\_MCS0\_Higher Band Emissions

#VBW 300 kHz

Center 13.74 GHz #Res BW 100 kHz

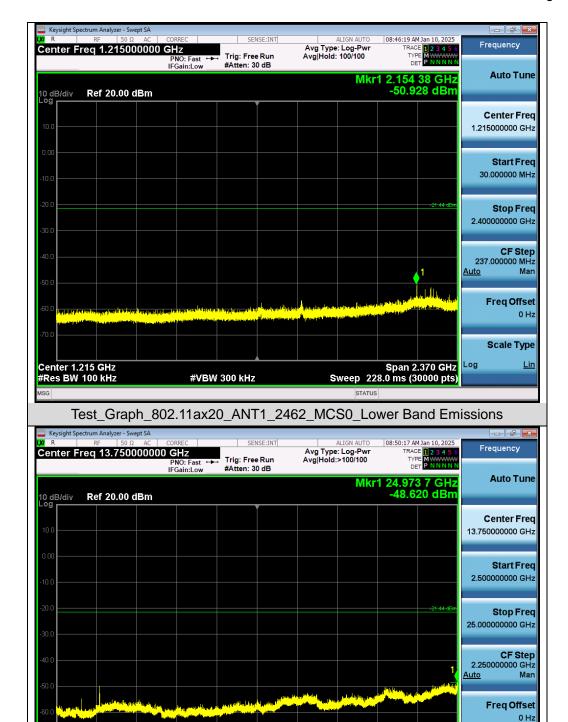


Scale Type

Span 22.50 GHz

Sweep 2.152 s (30000 pts)



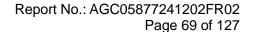


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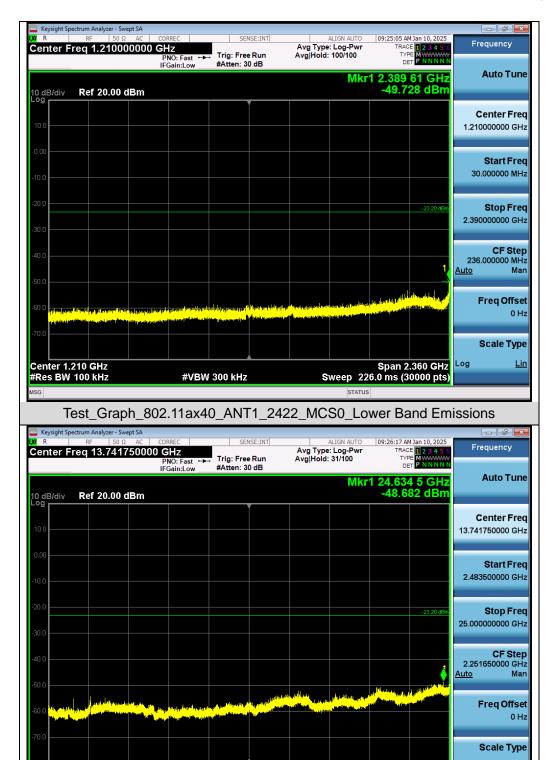
Test\_Graph\_802.11ax20\_ANT1\_2462\_MCS0\_Higher Band Emissions

#VBW 300 kHz

Center 13.75 GHz #Res BW 100 kHz







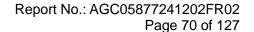
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test\_Graph\_802.11ax40\_ANT1\_2422\_MCS0\_Higher Band Emissions

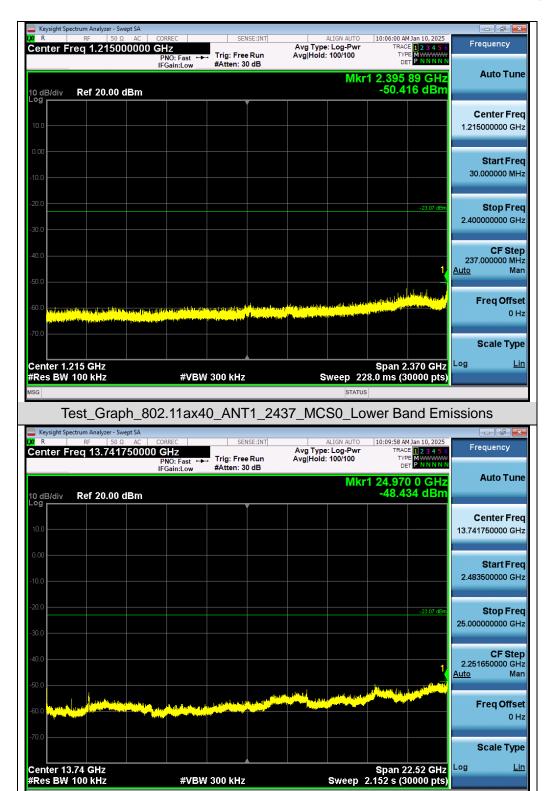
#VBW 300 kHz

Span 22.52 GHz Sweep 2.152 s (30000 pts)

Center 13.74 GHz #Res BW 100 kHz

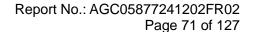




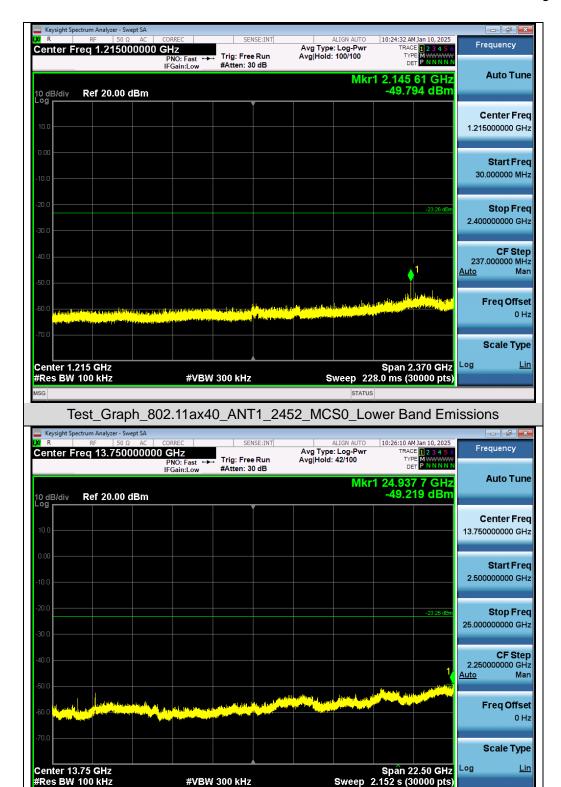


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test\_Graph\_802.11ax40\_ANT1\_2437\_MCS0\_Higher Band Emissions





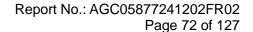


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.  $Further\ enquiry\ of\ validity\ or\ verification\ of\ the\ test\ report\ should\ be\ addressed\ to\ AGC\ by\ agc 01@agccert.com.$ 

Test\_Graph\_802.11ax40\_ANT1\_2452\_MCS0\_Higher Band Emissions

Sweep 2.152 s (30000 pts)

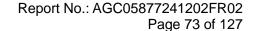
#VBW 300 kHz



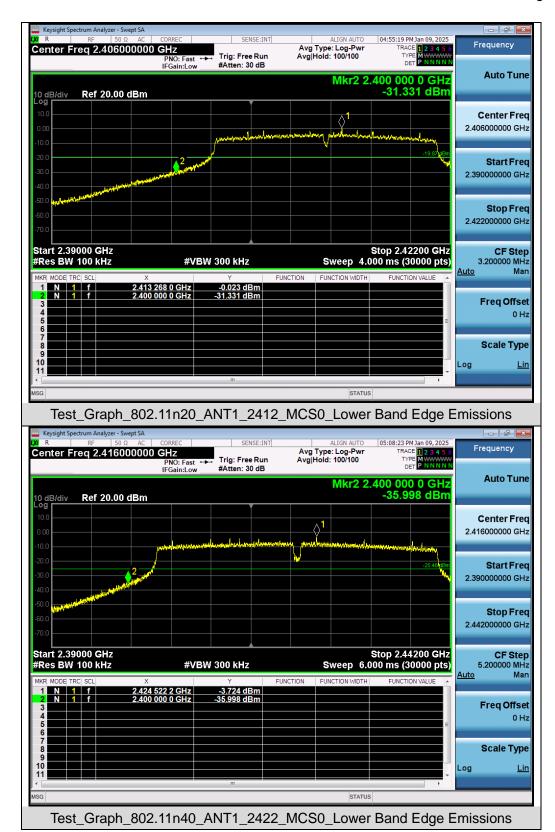


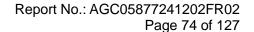
#### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



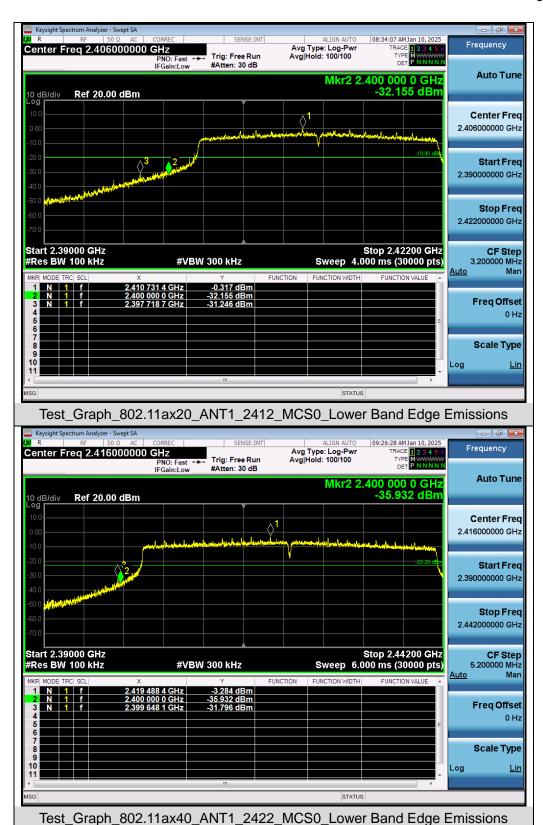














Page 75 of 127

## 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

- 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.
- 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



Page 76 of 127

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



Page 77 of 127

#### 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

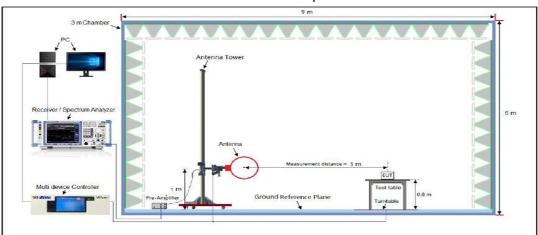
### Average Measurements above 1GHz

- 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.

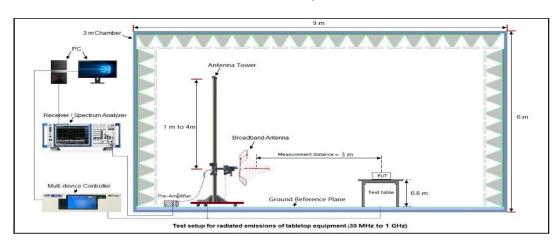


# 11.3 Measurement Setup (Block Diagram of Configuration)

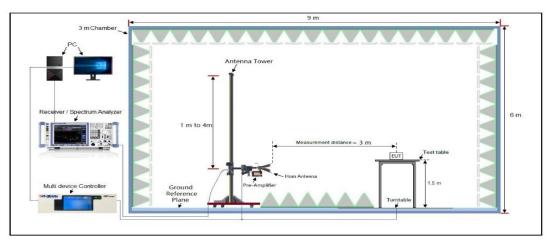
#### Radiated Emission Test Setup 9kHz-30MHz



### Radiated Emission Test Setup 30MHz-1000MHz



## Radiated Emission Test Setup Above 1000MHz



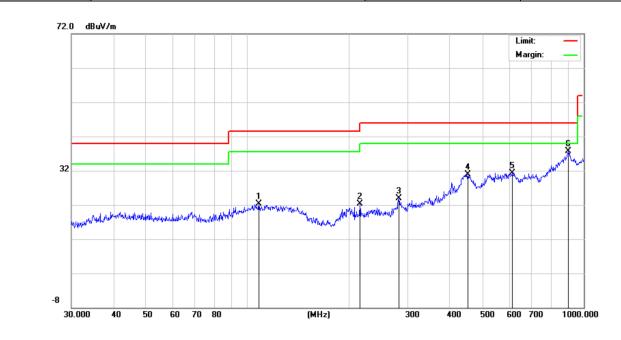


#### 11.4 Measurement Result

#### 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.

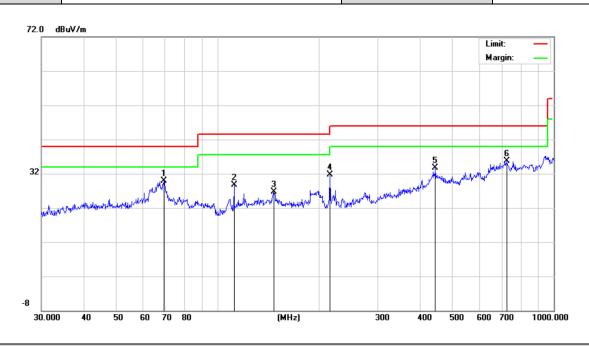
Radiated Emission Test Results at 30MHz-1GHz						
EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A			
Temperature	22.7℃	Relative Humidity	56.9%			
Pressure	960hPa	Test Voltage	DC 5V by adapter			
Test Mode	Mode 1	Antenna Polarity	Horizontal			



Final	Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	108.2667	22.33	16.28	43.50	21.17	100	110	Horizontal	
2	216.0240	22.25	14.42	46.00	23.75	100	120	Horizontal	
3	281.9946	23.88	15.06	46.00	22.12	100	80	Horizontal	
4	452.7197	30.85	24.65	46.00	15.15	100	210	Horizontal	
5	614.2142	31.34	25.17	46.00	14.66	100	130	Horizontal	
6	900.1474	37.62	31.78	46.00	8.38	100	110	Horizontal	



Radiated Emission Test Results at 30MHz-1GHz						
EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A			
Temperature	22.7℃	Relative Humidity	56.9%			
Pressure	960hPa	Test Voltage	DC 5V by adapter			
Test Mode	Mode 1	Antenna Polarity	Vertical			



Final	Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	69.3568	29.89	17.01	40.00	10.11	100	120	Vertical
2	112.1305	28.68	16.32	43.50	14.82	100	130	Vertical
3	147.4036	26.68	18.20	43.50	16.82	100	70	Vertical
4	216.0240	31.61	16.70	46.00	14.39	100	200	Vertical
5	444.8514	33.80	25.88	46.00	12.2	100	130	Vertical
6	726.8052	35.61	28.15	46.00	10.39	100	80	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.



Page 81 of 127

### Radiated Emissions Test Results above 1 GHz

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
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)	value Type
4824.000	46.98	0.08	47.06	74	-26.94	peak
4824.000	37.79	0.08	37.87	54	-16.13	AVG
7236.000	41.83	2.21	44.04	74	-29.96	peak
7236.000	32.14	2.21	34.35	54	-19.65	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
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)	value Type
4824.000	46.08	0.08	46.16	74	-27.84	peak
4824.000	37.91	80.0	37.99	54	-16.01	AVG
7236.000	41.31	2.21	43.52	74	-30.48	peak
7236.000	32.10	2.21	34.31	54	-19.69	AVG

Remark:

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

### **RESULT: Pass**



Page 82 of 127

### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
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)	value Type
4874.000	46.41	0.08	46.49	74	-27.51	peak
4874.000	37.80	80.0	37.88	54	-16.12	AVG
7311.000	41.53	2.21	43.74	74	-30.26	peak
7311.000	32.40	2.21	34.61	54	-19.39	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
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)	value Type
4874.000	46.93	0.08	47.01	74	-26.99	peak
4874.000	37.37	0.08	37.45	54	-16.55	AVG
7311.000	41.80	2.21	44.01	74	-29.99	peak
7311.000	32.01	2.21	34.22	54	-19.78	AVG

Remark:

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

### **RESULT: Pass**



Page 83 of 127

#### Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.42	0.08	46.50	74	-27.50	peak
4924.000	37.80	0.08	37.88	54	-16.12	AVG
7386.000	41.89	2.21	44.10	74	-29.90	peak
7386.000	32.33	2.21	34.54	54	-19.46	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.87	0.08	46.95	74	-27.05	peak
4924.000	37.66	0.08	37.74	54	-16.26	AVG
7386.000	41.39	2.21	43.60	74	-30.40	peak
7386.000	32.12	2.21	34.33	54	-19.67	AVG
Remark:	Remark:					

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

### **RESULT: Pass**



Page 84 of 127

### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 4	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	46.59	0.08	46.67	74	-27.33	peak
4824.000	37.83	0.08	37.91	54	-16.09	AVG
7236.000	41.57	2.21	43.78	74	-30.22	peak
7236.000	32.42	2.21	34.63	54	-19.37	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 4	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	46.51	0.08	46.59	74	-27.41	peak
4824.000	37.98	0.08	38.06	54	-15.94	AVG
7236.000	41.86	2.21	44.07	74	-29.93	peak
7236.000	32.91	2.21	35.12	54	-18.88	AVG

Remark:

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

### **RESULT: Pass**



Page 85 of 127

#### Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 5	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.60	0.08	46.68	74	-27.32	peak
4874.000	37.75	0.08	37.83	54	-16.17	AVG
7311.000	41.45	2.21	43.66	74	-30.34	peak
7311.000	32.44	2.21	34.65	54	-19.35	AVG
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Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 5	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.77	0.08	46.85	74	-27.15	peak
4874.000	37.36	0.08	37.44	54	-16.56	AVG
7311.000	41.49	2.21	43.70	74	-30.30	peak
7311.000	32.99	2.21	35.20	54	-18.80	AVG

Remark:

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

### **RESULT: Pass**



Page 86 of 127

#### Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 6	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.29	0.08	46.37	74	-27.63	peak
4924.000	37.33	0.08	37.41	54	-16.59	AVG
7386.000	41.25	2.21	43.46	74	-30.54	peak
7386.000	32.61	2.21	34.82	54	-19.18	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 6	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.24	0.08	46.32	74	-27.68	peak
4924.000	37.92	0.08	38.00	54	-16.00	AVG
7386.000	41.58	2.21	43.79	74	-30.21	peak
7386.000	32.24	2.21	34.45	54	-19.55	AVG
				•		

Remark:

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

### **RESULT: Pass**



Page 87 of 127

### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 7	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	46.46	0.08	46.54	74	-27.46	peak
4824.000	37.89	80.0	37.97	54	-16.03	AVG
7236.000	41.28	2.21	43.49	74	-30.51	peak
7236.000	32.19	2.21	34.40	54	-19.60	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 7	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	46.95	0.08	47.03	74	-26.97	peak
4824.000	37.59	0.08	37.67	54	-16.33	AVG
7236.000	41.85	2.21	44.06	74	-29.94	peak
7236.000	32.62	2.21	34.83	54	-19.17	AVG

Remark:

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

### **RESULT: Pass**



Page 88 of 127

#### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 8	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.25	80.0	46.33	74	-27.67	peak
4874.000	37.36	0.08	37.44	54	-16.56	AVG
7311.000	41.88	2.21	44.09	74	-29.91	peak
7311.000	32.13	2.21	34.34	54	-19.66	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 8	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.46	0.08	46.54	74	-27.46	peak
4874.000	37.11	0.08	37.19	54	-16.81	AVG
7311.000	41.67	2.21	43.88	74	-30.12	peak
7311.000	32.41	2.21	34.62	54	-19.38	AVG

Remark:

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

### **RESULT: Pass**



Page 89 of 127

#### Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 9	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.53	0.08	46.61	74	-27.39	peak
4924.000	37.46	0.08	37.54	54	-16.46	AVG
7386.000	41.06	2.21	43.27	74	-30.73	peak
7386.000	32.45	2.21	34.66	54	-19.34	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 9	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.20	0.08	46.28	74	-27.72	peak
4924.000	37.19	0.08	37.27	54	-16.73	AVG
7386.000	41.13	2.21	43.34	74	-30.66	peak
7386.000	32.62	2.21	34.83	54	-19.17	AVG

Remark:

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

### **RESULT: Pass**



Page 90 of 127

#### Radiated Emissions Test Results above 1GHz

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 10	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	46.25	0.08	46.33	74	-27.67	peak
4824.000	37.96	0.08	38.04	54	-15.96	AVG
7236.000	41.25	2.21	43.46	74	-30.54	peak
7236.000	32.87	2.21	35.08	54	-18.92	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 10	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	46.79	0.08	46.87	74	-27.13	peak
4824.000	37.21	0.08	37.29	54	-16.71	AVG
7236.000	41.57	2.21	43.78	74	-30.22	peak
7236.000	32.75	2.21	34.96	54	-19.04	AVG

Remark:

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

### **RESULT: Pass**



Page 91 of 127

### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 11	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.89	80.0	46.97	74	-27.03	peak
4874.000	37.12	80.0	37.20	54	-16.80	AVG
7311.000	41.93	2.21	44.14	74	-29.86	peak
7311.000	32.52	2.21	34.73	54	-19.27	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 11	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.88	0.08	46.96	74	-27.04	peak
4874.000	37.97	0.08	38.05	54	-15.95	AVG
7311.000	41.67	2.21	43.88	74	-30.12	peak
7311.000	32.97	2.21	35.18	54	-18.82	AVG

Remark:

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

### **RESULT: Pass**



Page 92 of 127

### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 12	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.82	0.08	46.90	74	-27.10	peak
4924.000	37.16	0.08	37.24	54	-16.76	AVG
7386.000	41.12	2.21	43.33	74	-30.67	peak
7386.000	32.84	2.21	35.05	54	-18.95	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 12	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.43	0.08	46.51	74	-27.49	peak
4924.000	37.68	80.0	37.76	54	-16.24	AVG
7386.000	41.01	2.21	43.22	74	-30.78	peak
7386.000	32.45	2.21	34.66	54	-19.34	AVG

Remark:

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



Page 93 of 127

#### **Radiated Emissions Test Results above 1 GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 13	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4844.000	46.73	0.08	46.81	74	-27.19	peak
4844.000	37.02	0.08	37.10	54	-16.90	AVG
7266.000	41.19	2.21	43.40	74	-30.60	peak
7266.000	32.37	2.21	34.58	54	-19.42	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 13	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4844.000	46.61	0.08	46.69	74	-27.31	peak
4844.000	37.01	80.0	37.09	54	-16.91	AVG
7266.000	41.87	2.21	44.08	74	-29.92	peak
7266.000	32.35	2.21	34.56	54	-19.44	AVG

Remark:

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

### **RESULT: Pass**



Page 94 of 127

#### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 14	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.01	0.08	46.09	74	-27.91	peak
4874.000	37.68	0.08	37.76	54	-16.24	AVG
7311.000	41.53	2.21	43.74	74	-30.26	peak
7311.000	32.95	2.21	35.16	54	-18.84	AVG
				_		

#### Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 14	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	46.24	80.0	46.32	74	-27.68	peak
4874.000	37.05	0.08	37.13	54	-16.87	AVG
7311.000	41.92	2.21	44.13	74	-29.87	peak
7311.000	32.41	2.21	34.62	54	-19.38	AVG

### Remark:

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

### **RESULT: Pass**



Page 95 of 127

#### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 15	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4904.000	46.47	0.08	46.55	74	-27.45	peak
4904.000	37.64	0.08	37.72	54	-16.28	AVG
7356.000	41.23	2.21	43.44	74	-30.56	peak
7356.000	32.22	2.21	34.43	54	-19.57	AVG

Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A	
Temperature	22.7℃	Relative Humidity	56.9%	
Pressure	960hPa	Test Voltage	DC 5V by adapter	
Test Mode	Mode 15	Antenna Polarity	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4904.000	46.01	0.08	46.09	74	-27.91	peak
4904.000	37.13	0.08	37.21	54	-16.79	AVG
7356.000	41.03	2.21	43.24	74	-30.76	peak
7356.000	32.76	2.21	34.97	54	-19.03	AVG

### Remark:

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

### **RESULT: Pass**



Page 96 of 127

#### **Radiated Emissions Test Results above 1 GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 16	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4844.000	46.89	0.08	46.97	74	-27.03	peak
4844.000	37.77	0.08	37.85	54	-16.15	AVG
7266.000	41.56	2.21	43.77	74	-30.23	peak
7266.000	32.84	2.21	35.05	54	-18.95	AVG

#### Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 16	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4844.000	46.47	0.08	46.55	74	-27.45	peak
4844.000	37.81	0.08	37.89	54	-16.11	AVG
7266.000	41.12	2.21	43.33	74	-30.67	peak
7266.000	32.58	2.21	34.79	54	-19.21	AVG

### Remark:

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

### **RESULT: Pass**



Report No.: AGC05877241202FR02

Page 97 of 127

#### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 17	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4904.000	46.71	0.08	46.79	74	-27.21	peak
4904.000	37.27	0.08	37.35	54	-16.65	AVG
7356.000	41.58	2.21	43.79	74	-30.21	peak
7356.000	32.99	2.21	35.20	54	-18.80	AVG

#### Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 17	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4904.000	46.13	0.08	46.21	74	-27.79	peak
4904.000	37.41	0.08	37.49	54	-16.51	AVG
7356.000	41.76	2.21	43.97	74	-30.03	peak
7356.000	32.67	2.21	34.88	54	-19.12	AVG

## Remark:

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

## **RESULT: Pass**



Report No.: AGC05877241202FR02

Page 98 of 127

#### **Radiated Emissions Test Results above 1GHz**

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 18	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.01	0.08	46.09	74	-27.91	peak
4924.000	37.77	0.08	37.85	54	-16.15	AVG
7386.000	41.84	2.21	44.05	74	-29.95	peak
7386.000	32.72	2.21	34.93	54	-19.07	AVG

#### Remark:

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

EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	22.7℃	Relative Humidity	56.9%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 18	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	46.27	0.08	46.35	74	-27.65	peak
4924.000	37.89	0.08	37.97	54	-16.03	AVG
7386.000	41.10	2.21	43.31	74	-30.69	peak
7386.000	32.08	2.21	34.29	54	-19.71	AVG

#### Remark:

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

## **RESULT: Pass**

#### Note:

- 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.

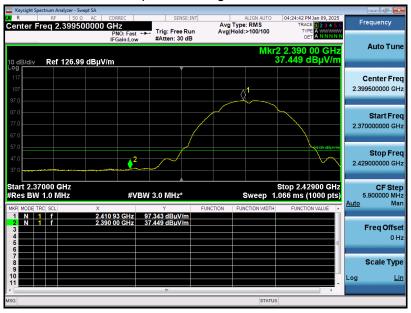


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

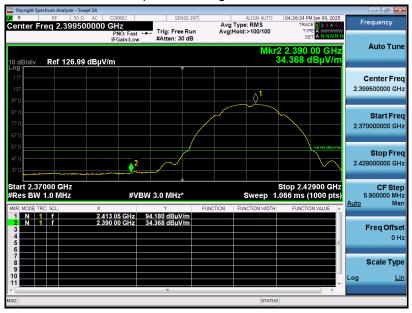


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3℃	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 4	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

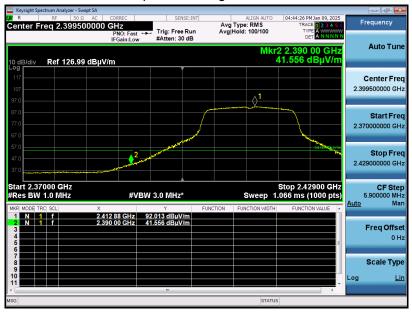


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 4	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 6	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

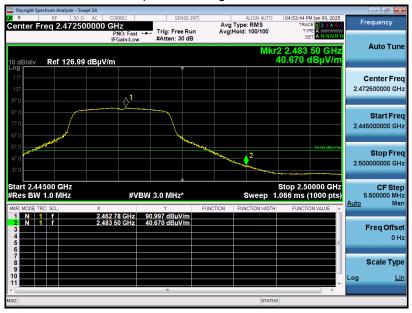


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3℃	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 6	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

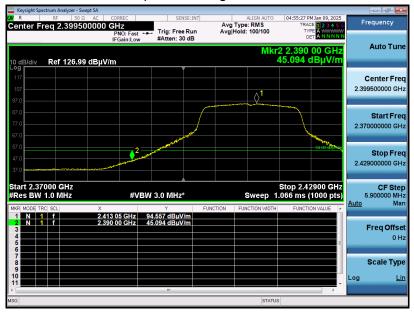


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 7	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

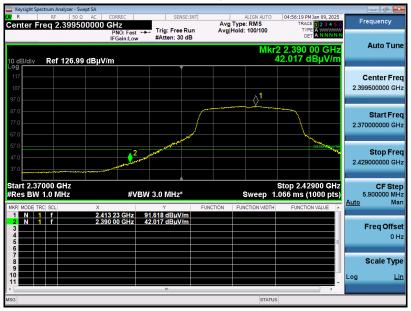


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 7	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 9	Antenna Polarity	Horizontal

## Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3℃	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 9	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

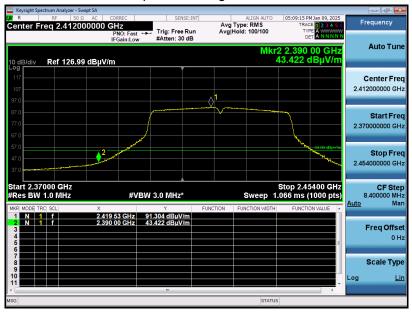


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3℃	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 10	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



# Test Graph for Average Measurement



## **RESULT: Pass**

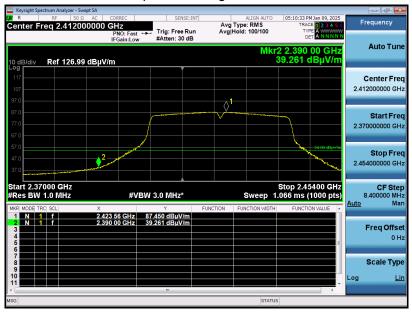


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 10	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 12	Antenna Polarity	Horizontal

## Test Graph for Peak Measurement



# Test Graph for Average Measurement



## **RESULT: Pass**

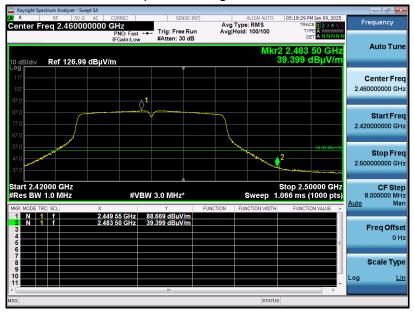


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3℃	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 12	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3℃	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 13	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



# Test Graph for Average Measurement



## **RESULT: Pass**

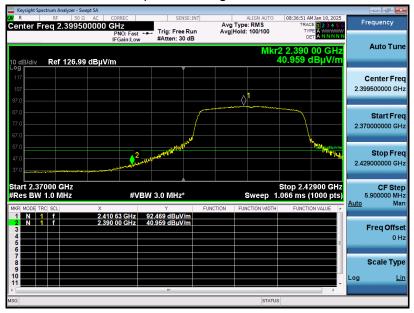


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 13	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 15	Antenna Polarity	Horizontal

## Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**



EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 15	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

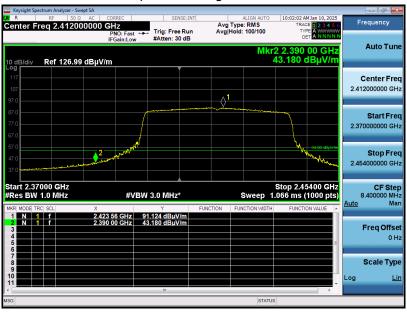


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A			
Temperature	emperature 21.3°C		48%			
Pressure	960hPa	Test Voltage	DC 5V by adapter			
Test Mode	Mode 16	Antenna Polarity	Horizontal			

#### Test Graph for Peak Measurement



# Test Graph for Average Measurement



## **RESULT: Pass**

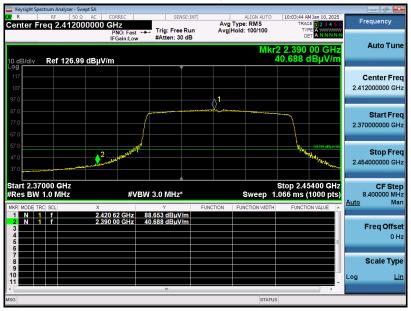


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 16	Antenna Polarity	Vertical

## Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

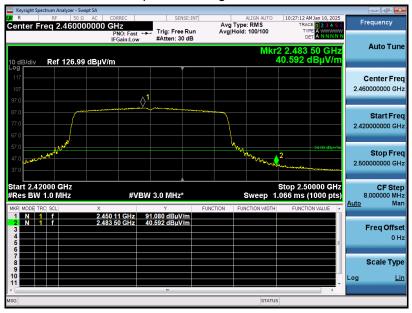


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 18	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



## **RESULT: Pass**

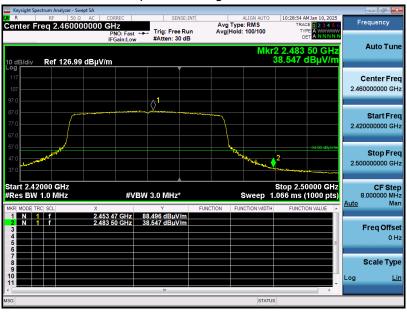


EUT Name	IMILAB C30 Dual	Model Name	CMSXJ111A
Temperature	21.3°C	Relative Humidity	48%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 18	Antenna Polarity	Vertical

#### 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.



Report No.: AGC05877241202FR02

Page 123 of 127

# 12. AC Power Line Conducted Emission

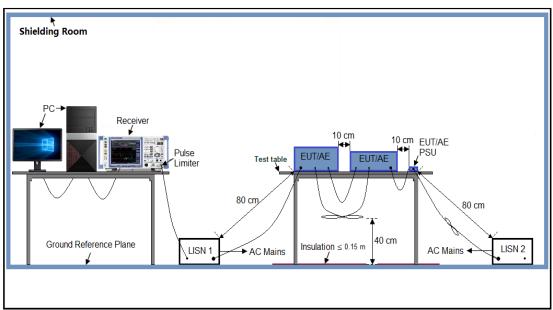
#### 12.1 Measurement Limits

Fraguenav	Maximum RF Line Voltage						
Frequency	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





Report No.: AGC05877241202FR02

Page 124 of 127

## 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 5V 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.



#### 12.5 Test Result of Line Conducted Emission Test

				AC I	Pow	er	Line Cond	ucted	Emis	sio	n Te	est					
st Mode	Mode 1								LISN	l Lir	ne				Hot Sid	е	
80 70 60	el [dBµV]												         	 -       -   -		  	
50 40 30 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www.		mill a			to the control of the							- +			
-10 L 15	0k 3	300k 4	00k	600k	800k	11		M ency [H		4M .	5M 6	6 <b>M</b>	81	/ 10	M 2	20M	30M

# MEASUREMENT RESULT: "agc\_fin"

2025/1/10 16:37

+ + + MES agc\_fin

2025/1/10 16:3	5 /					
Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line
0.154000	38.30	10.3	66	27.5	QP	L1
0.686000	39.90	10.3	56	16.1	QP	L1
1.050000	29.10	10.4	56	26.9	QP	L1
1.266000	27.80	10.4	56	28.2	QP	L1
2.546000	26.10	10.5	56	29.9	QP	L1
17.286000	26.70	14.0	60	33.3	OP	L1

# MEASUREMENT RESULT: "agc\_fin2"

2025/1/10 16:37

•	020/1/10 10.	J /					
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
	0.686000	34.30	10.3	46	11.7	AV	L1
	0.738000	23.20	10.3	46	22.8	AV	L1
	1.042000	24.00	10.4	46	22.0	AV	L1
	2.270000	20.70	10.5	46	25.3	AV	L1
	2.582000	20.80	10.5	46	25.2	AV	L1
	2.638000	20.60	10.5	46	25.4	AV	L1

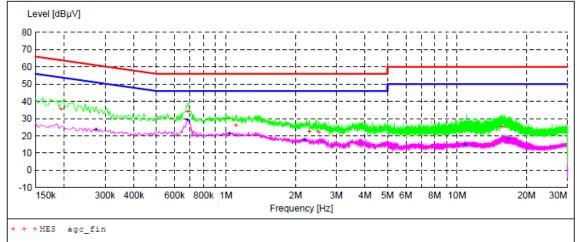
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## **RESULT: Pass**

AC Power Line Conducted Emission Test						
Test Mode	Mode 1			LISN Line	Neutral Sid	de
Lev	el [dBµV]					



# MEASUREMENT RESULT: "agc\_fin"

2025/1/10 16:40

_	020/1/10 10.	10					
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
	0.194000	35.30	10.3	64	28.6	QP	N
	0.686000	33.90	10.3	56	22.1	QP	N
	1.106000	26.00	10.4	56	30.0	QP	N
	2.298000	22.40	10.5	56	33.6	QP	N
	2.526000	21.90	10.5	56	34.1	QP	N
	15.710000	25.10	13.4	60	34.9	QP	N

# MEASUREMENT RESULT: "agc\_fin2"

2025/1/10 16:40

2023/1/10 10:10							
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
	0.274000	23.20	10.3	51	27.8	AV	N
	0.682000	29.10	10.3	46	16.9	AV	N
	1.034000	21.30	10.4	46	24.7	AV	N
	2.182000	17.50	10.5	46	28.5	AV	N
	10.790000	15.00	12.4	50	35.0	AV	N
	16.518000	18.00	13.7	50	32.0	AV	N

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**RESULT: Pass** 

Report No.: AGC05877241202FR02

Page 127 of 127

**Appendix I: Photographs of Test Setup** 

Refer to the Report No.: AGC05877241202AP02

**Appendix II: Photographs of Test EUT** 

Refer to the Report No.: AGC05877241202AP03

----End of Report----



# 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").
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- 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.