

EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.000	56.41	0.14	56.55	74	-17.45	peak
4874.000	45.95	0.14	46.09	54	-7.91	AVG
7311.000	51.02	2.36	53.38	74	-20.62	peak
7311.000	40.29	2.36	42.65	54	-11.35	AVG

Remark:

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

EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.000	55.33	0.14	55.47	74	-18.53	peak
4874.000	46.22	0.14	46.36	54	-7.64	AVG
7311.000	50.26	2.36	52.62	74	-21.38	peak
7311.000	40.38	2.36	42.74	54	-11.26	AVG

Remark:

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

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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	54.39	0.22	54.61	74	-19.39	peak
4924.000	43.26	0.22	43.48	54	-10.52	AVG
7386.000	49.22	2.64	51.86	74	-22.14	peak
7386.000	40.07	2.64	42.71	54	-11.29	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	56.35	0.22	56.57	74	-17.43	peak
4924.000	45.15	0.22	45.37	54	-8.63	AVG
7386.000	51.07	2.64	53.71	74	-20.29	peak
7386.000	42.38	2.64	45.02	54	-8.98	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.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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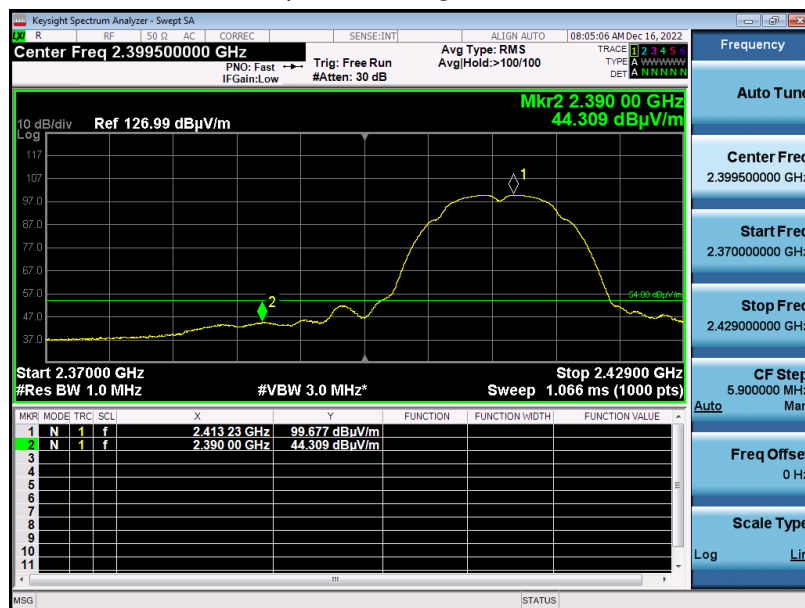
Test result for band edge emission at restricted bands

EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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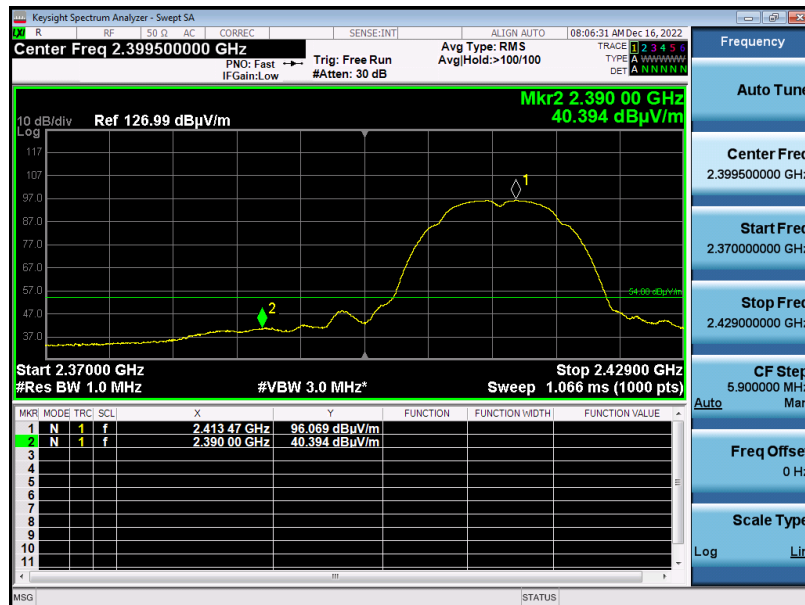
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

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.

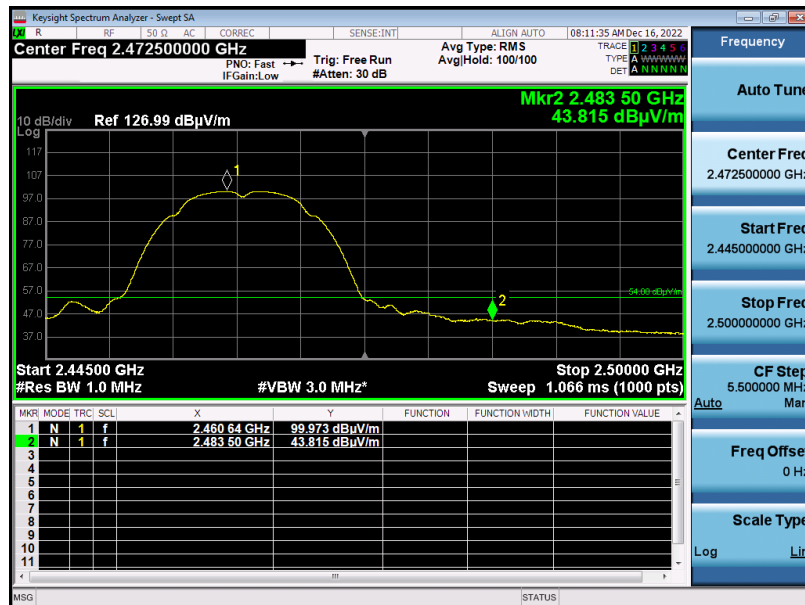
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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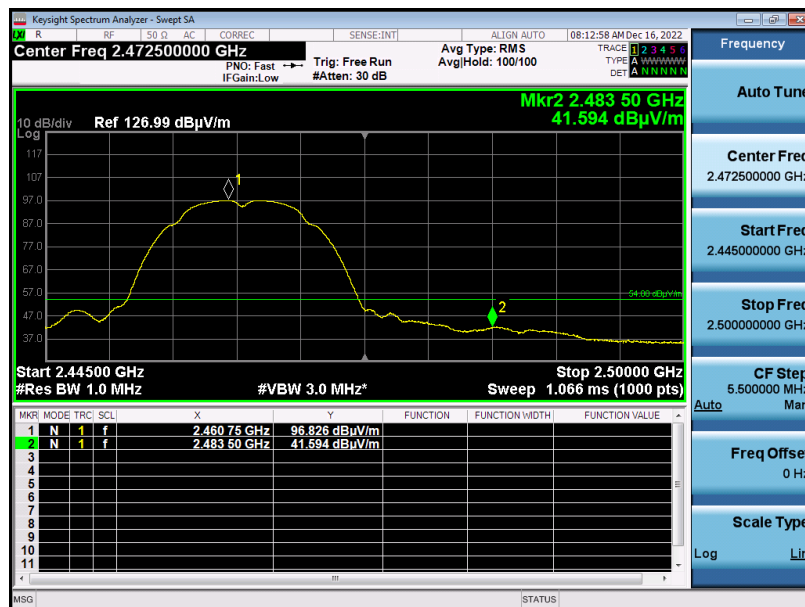
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



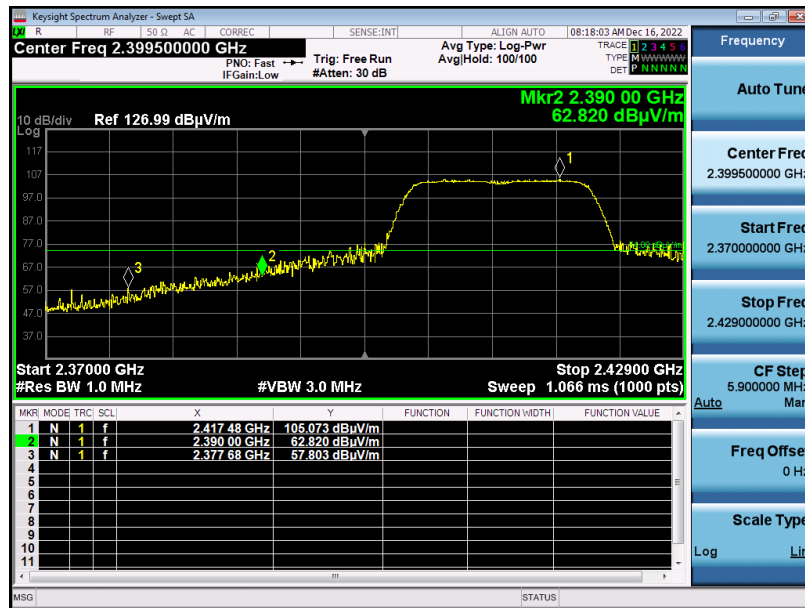
RESULT: PASS

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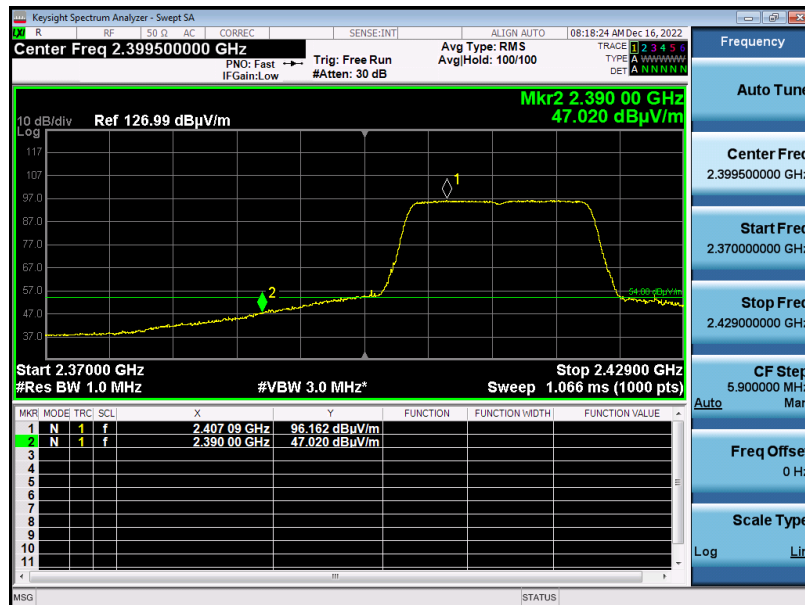
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



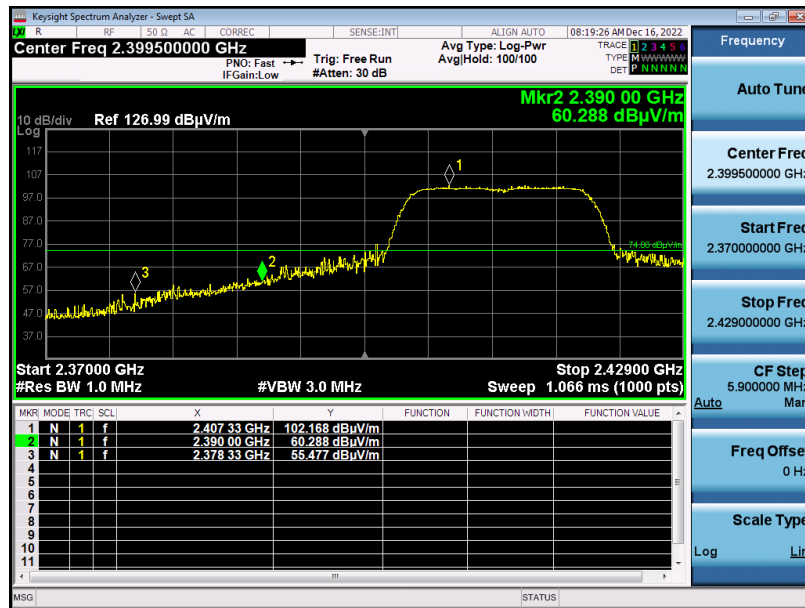
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Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the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

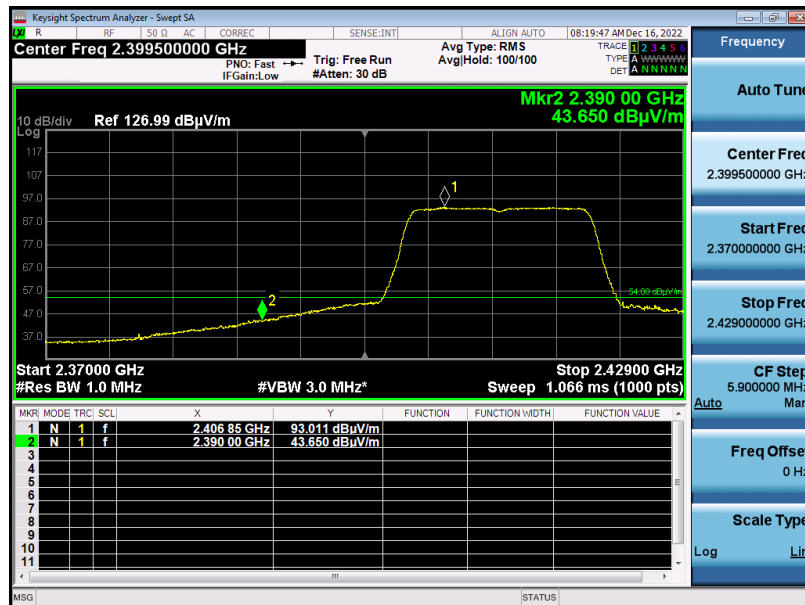
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

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.

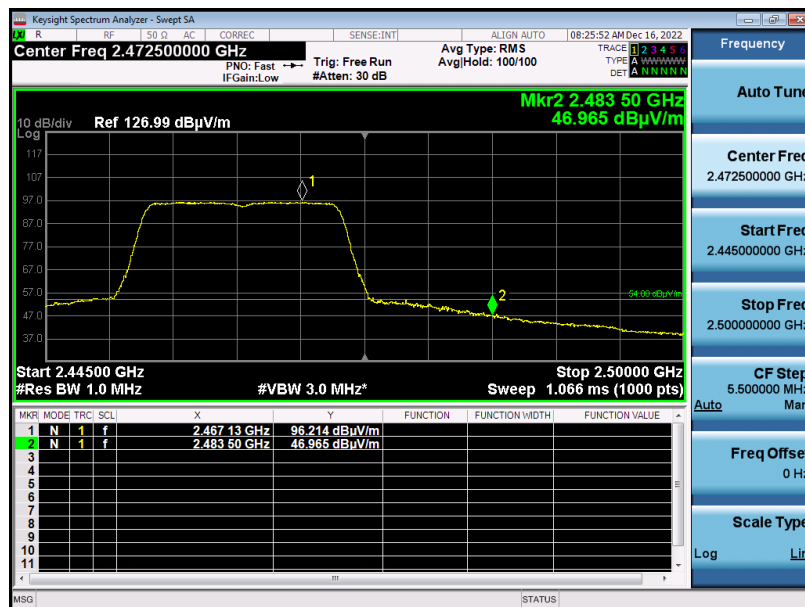
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



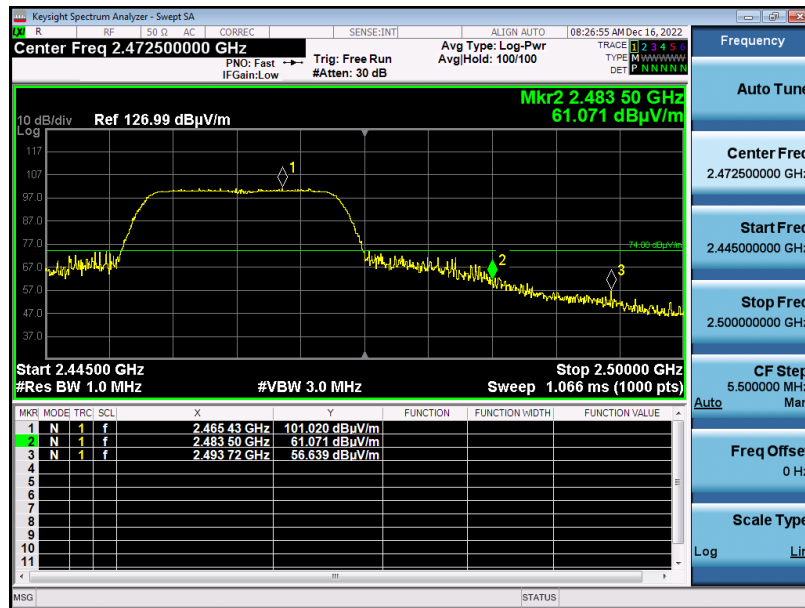
RESULT: PASS

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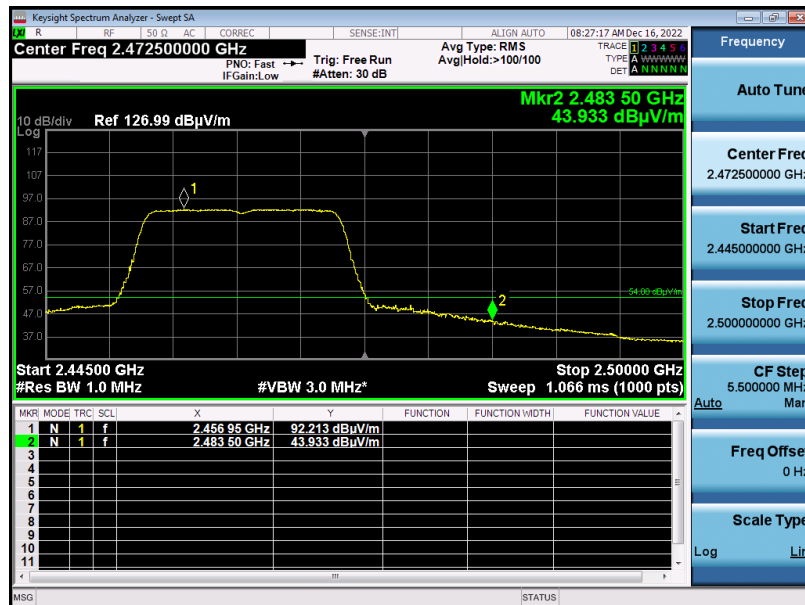
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



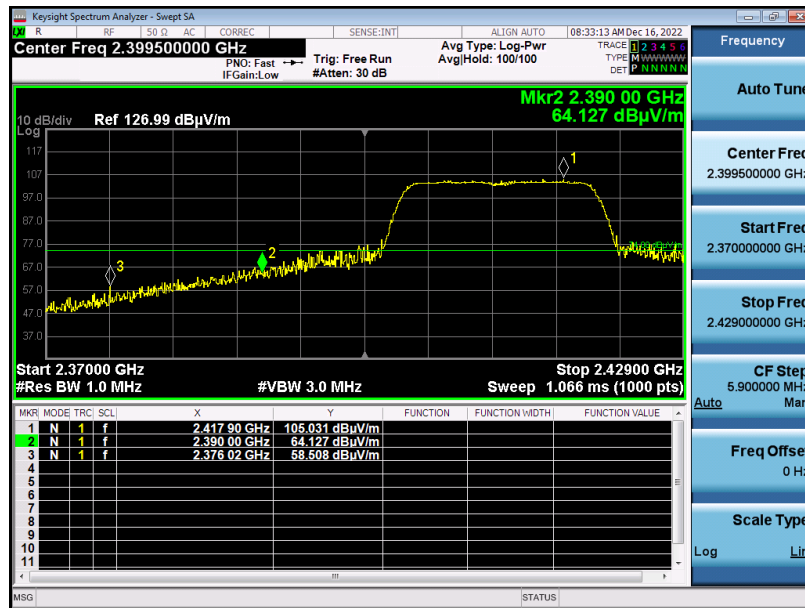
RESULT: PASS

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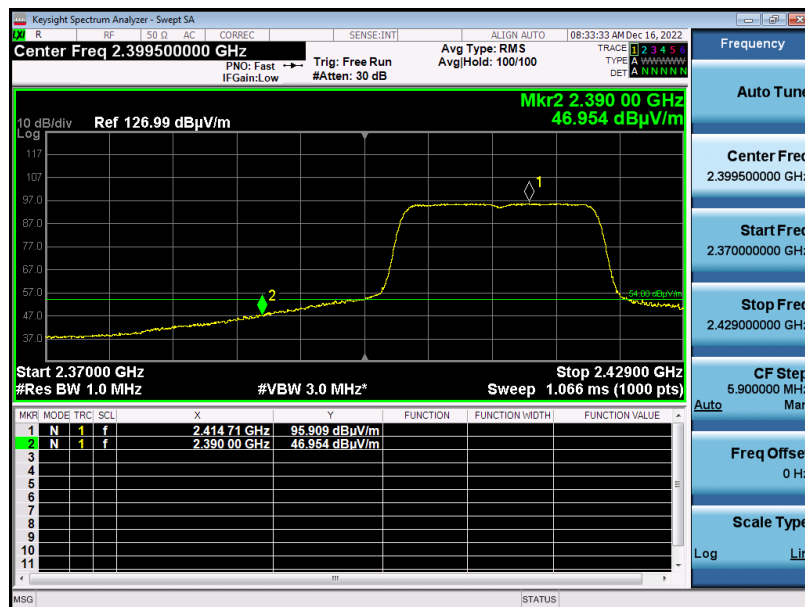
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



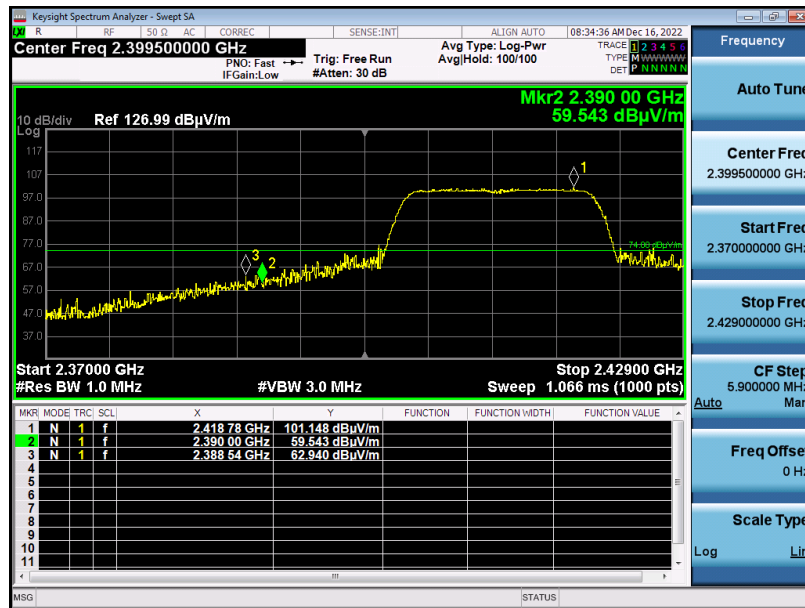
RESULT: PASS

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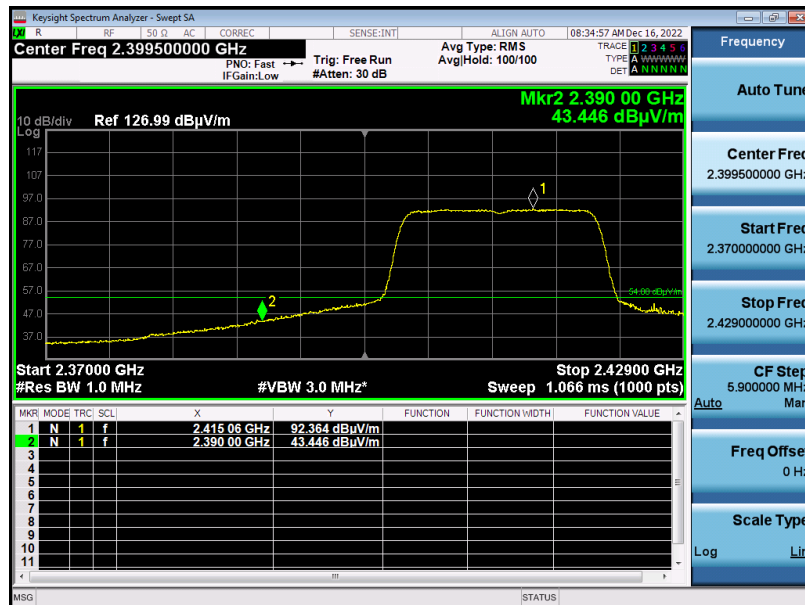
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



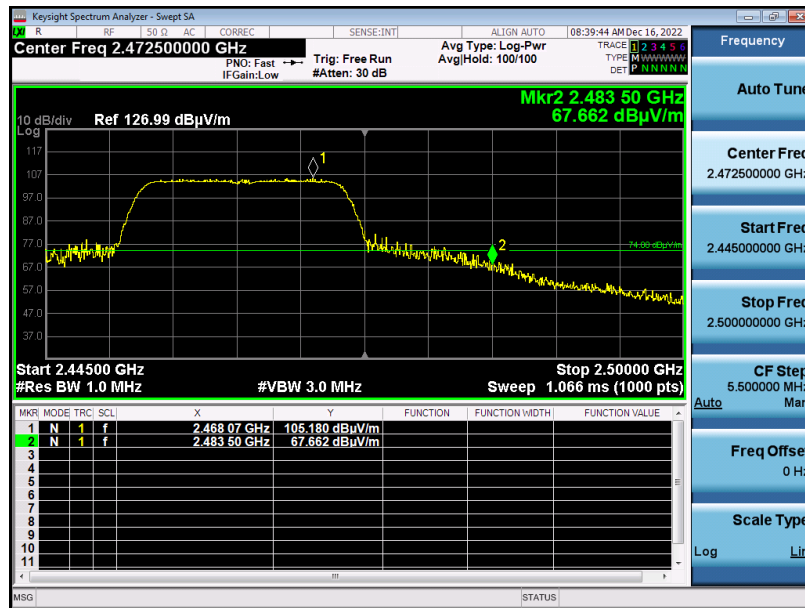
RESULT: PASS

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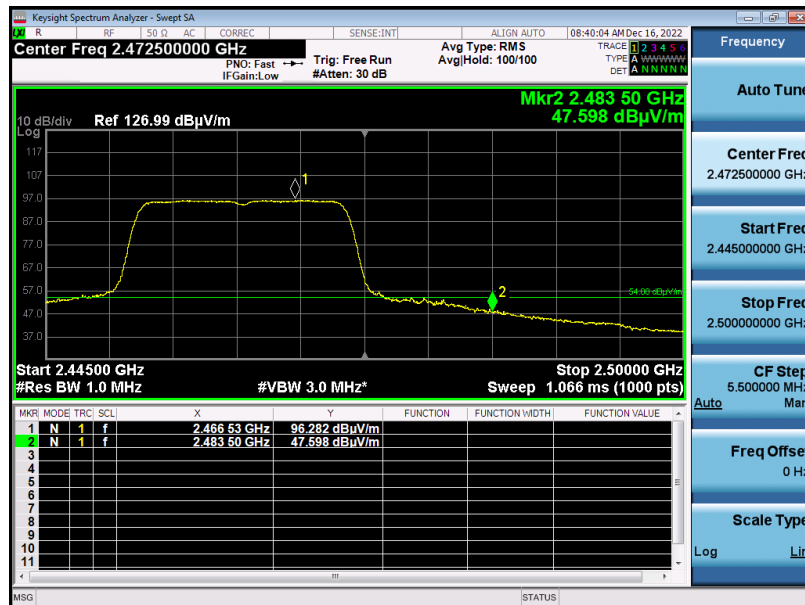
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



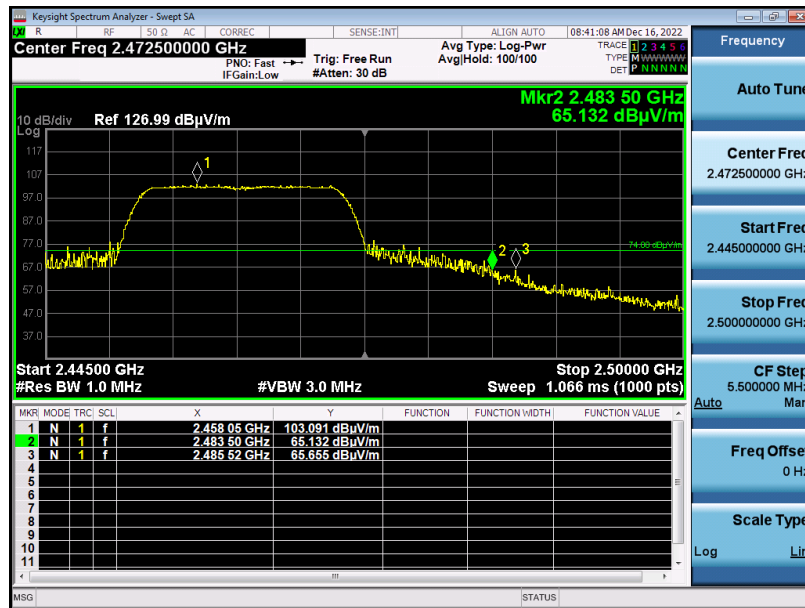
RESULT: PASS

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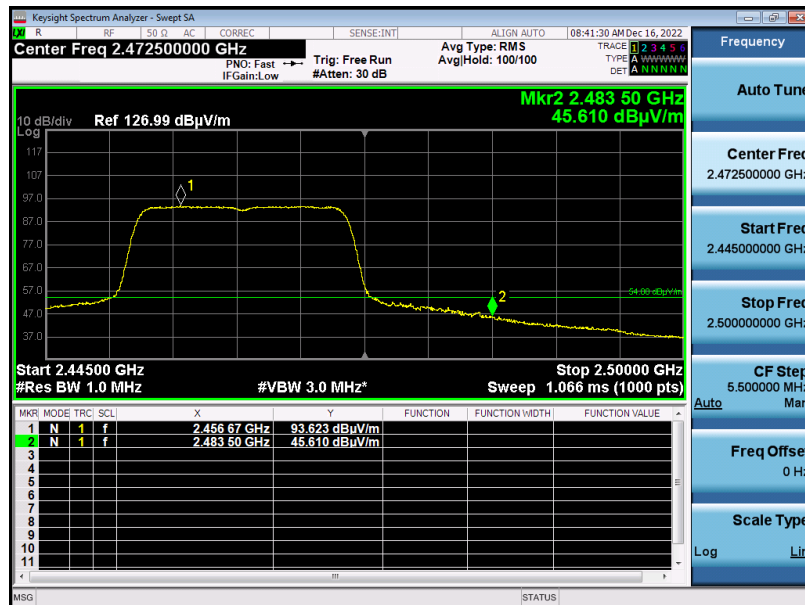
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



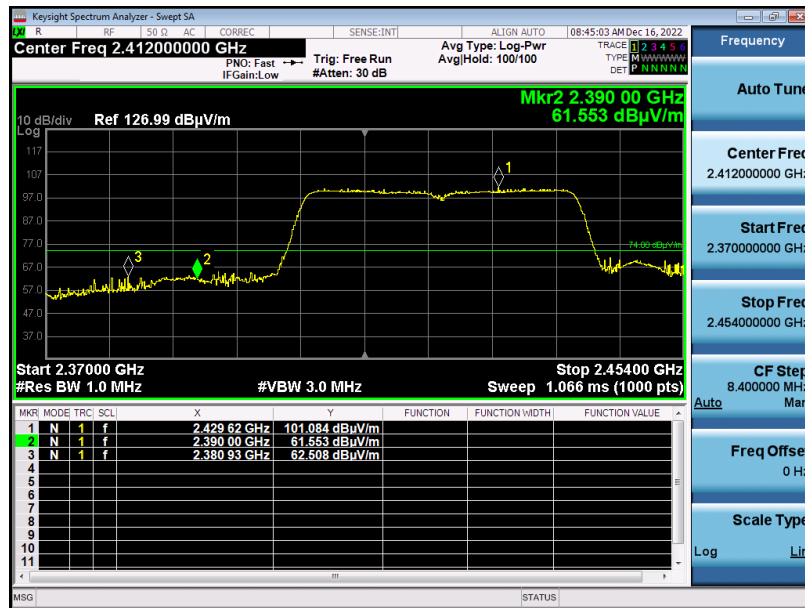
RESULT: PASS

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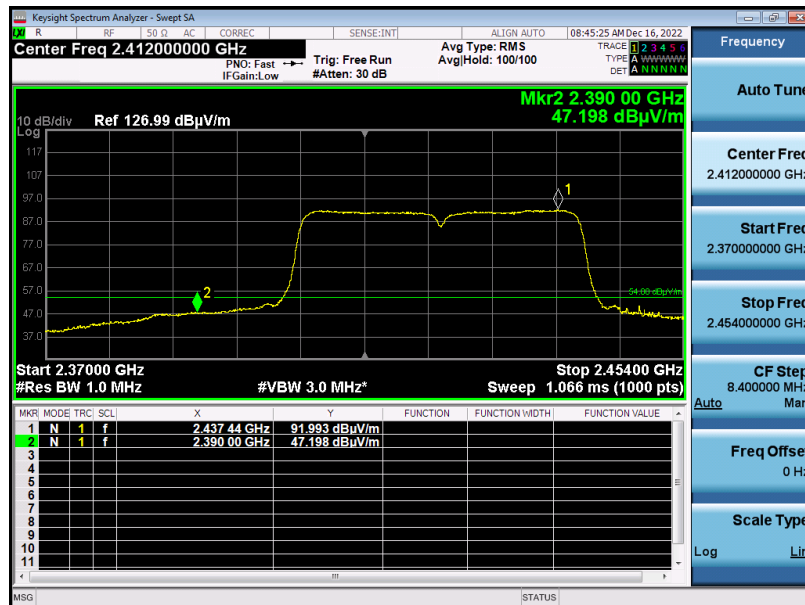
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



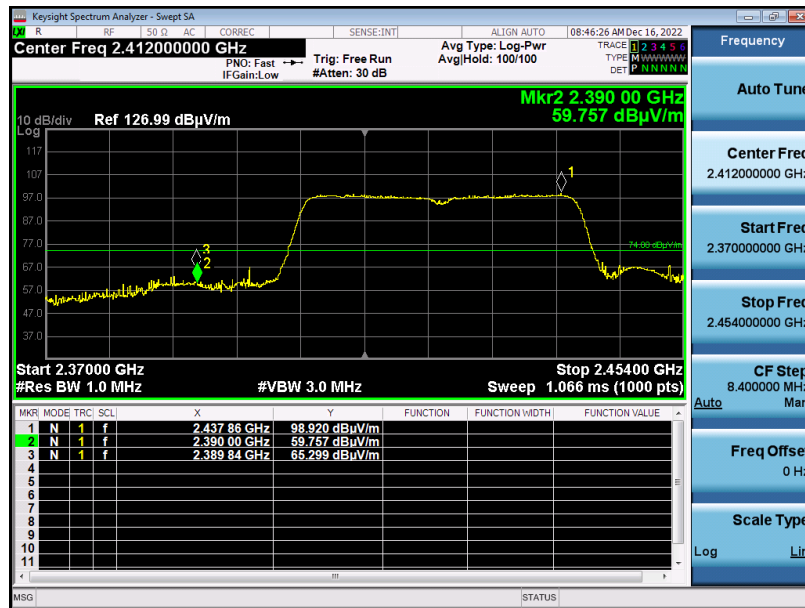
RESULT: PASS

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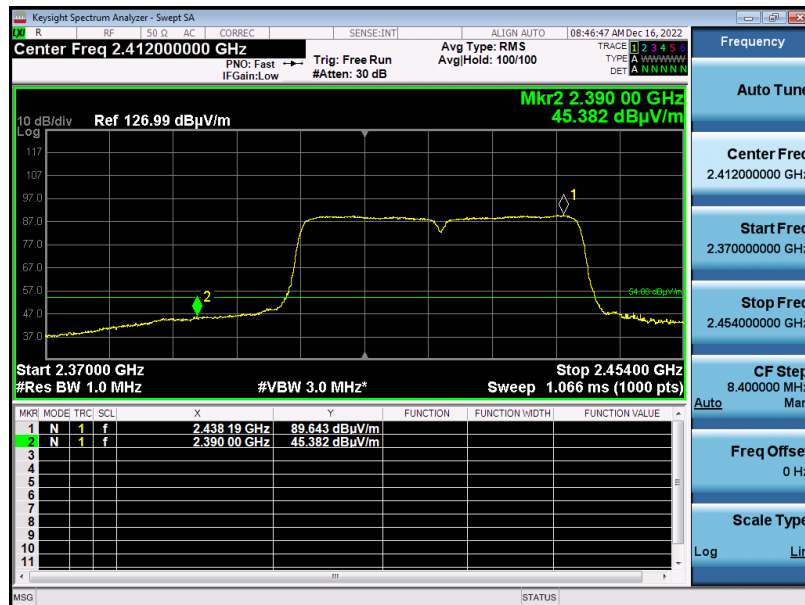
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



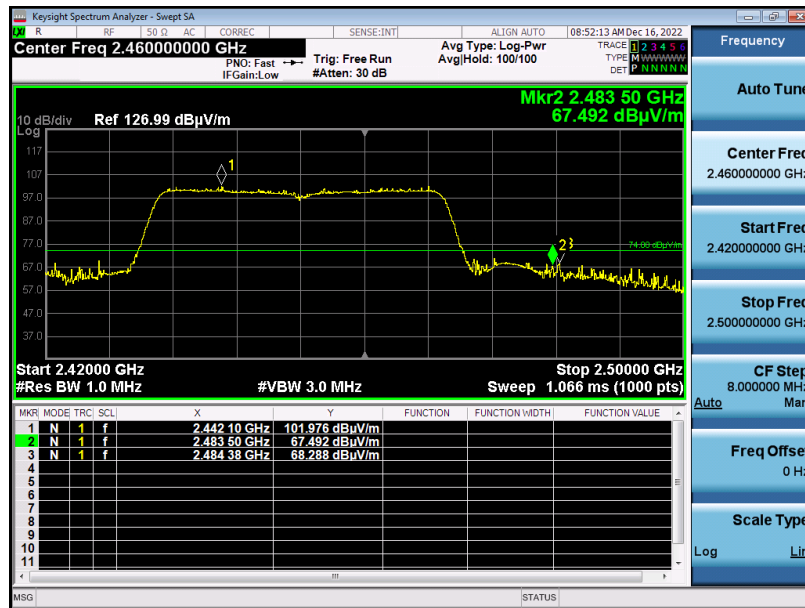
RESULT: PASS

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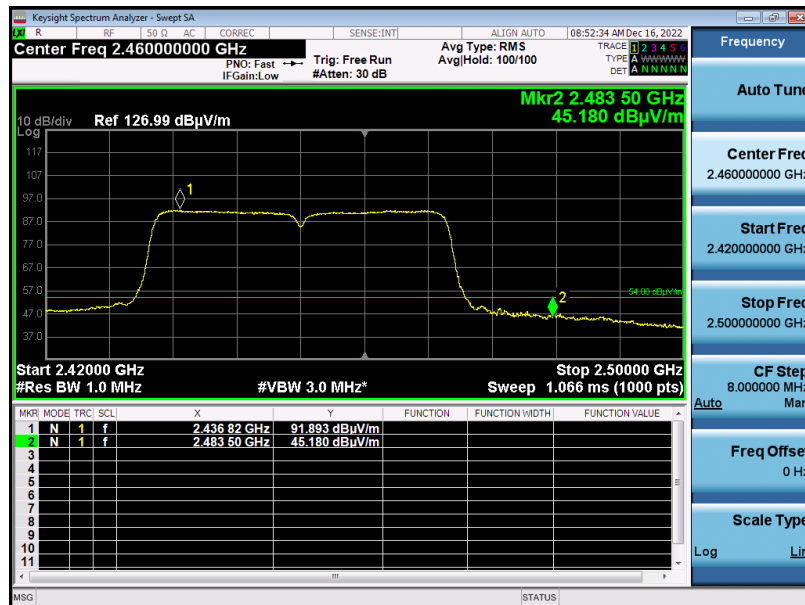
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



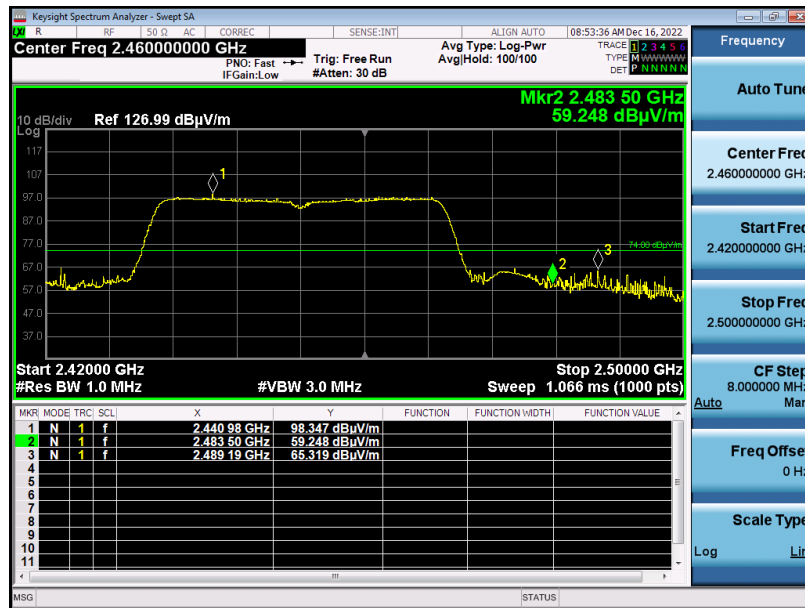
RESULT: PASS

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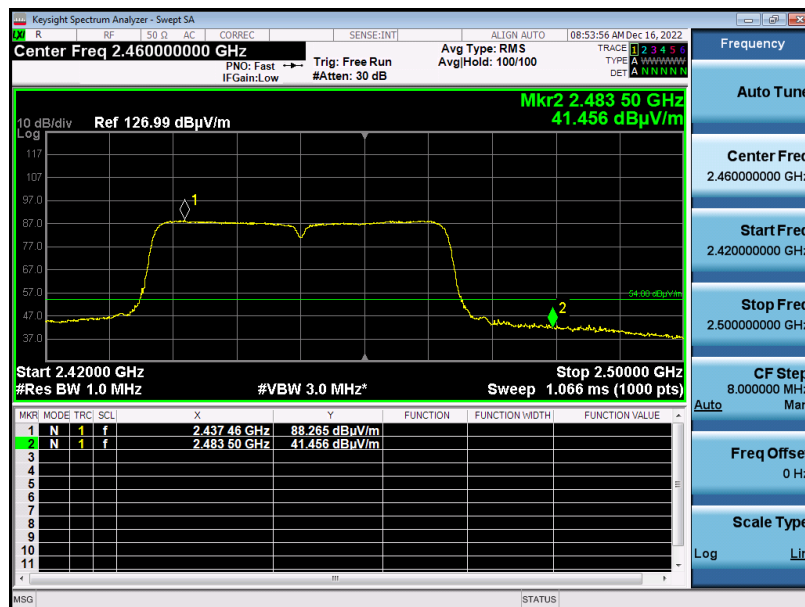
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EUT	IMILAB EC3 Lite Outdoor Camera	Model Name	CMSXJ40A
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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12. LINE CONDUCTED EMISSION TEST

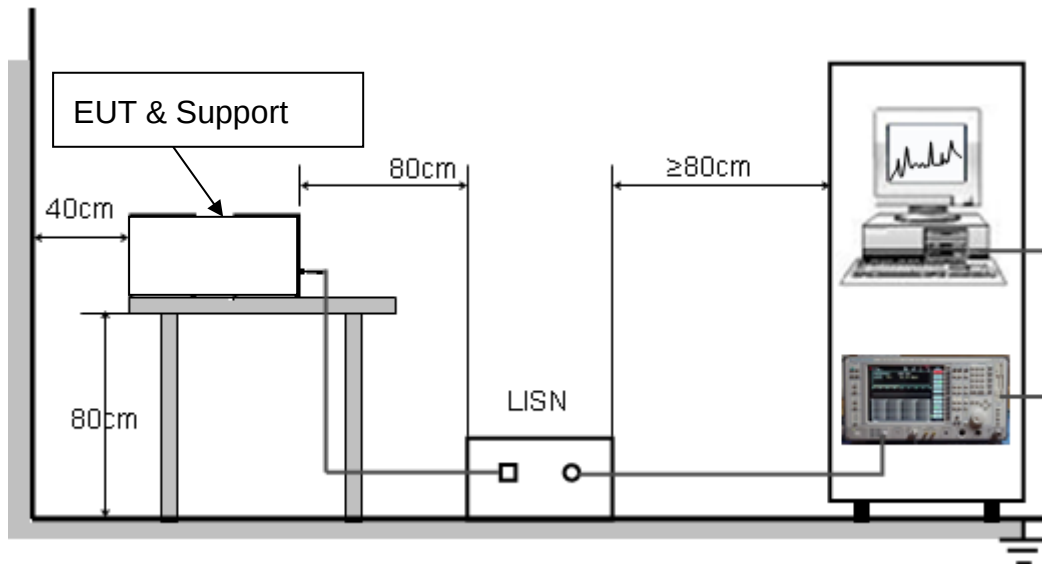
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 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.

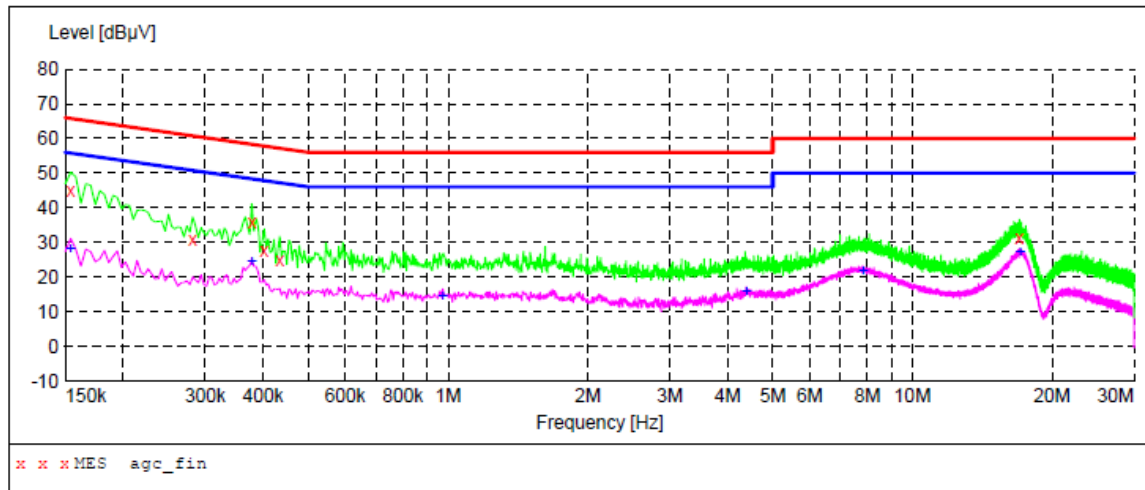
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

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

Line Conducted Emission Test Line 1-L- The first sample



MEASUREMENT RESULT: "agc_fin"

2022/12/20 11:37

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	44.80	6.9	66	21.0	QP	L1
0.282000	31.00	6.1	61	29.8	QP	L1
0.378000	35.80	5.8	58	22.5	QP	L1
0.402000	27.50	5.7	58	30.3	QP	L1
0.434000	24.70	5.6	57	32.5	QP	L1
16.990000	31.20	8.5	60	28.8	QP	L1

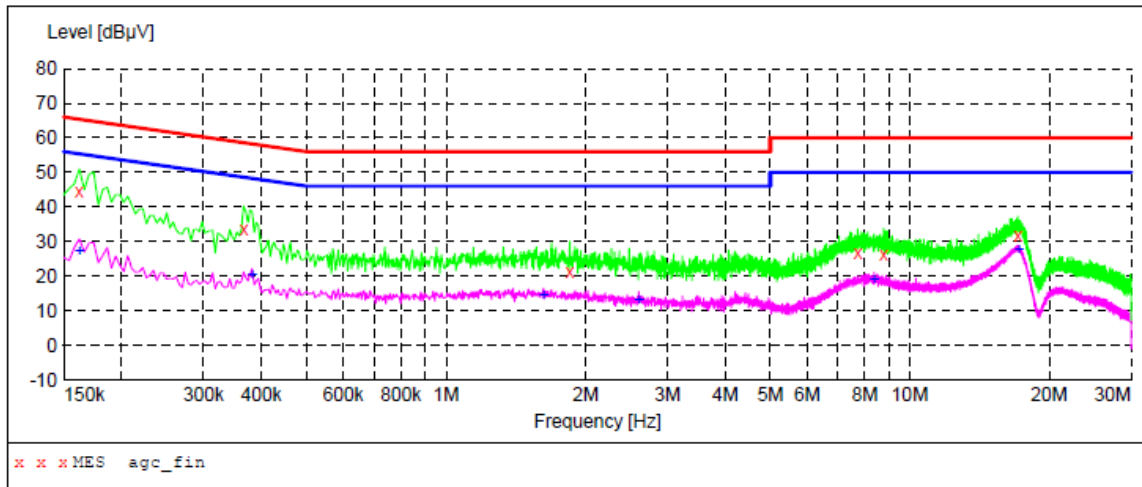
MEASUREMENT RESULT: "agc_fin2"

2022/12/20 11:37

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	27.90	6.9	56	27.9	AV	L1
0.378000	24.30	5.8	48	24.0	AV	L1
0.974000	14.50	5.4	46	31.5	AV	L1
4.390000	15.60	6.5	46	30.4	AV	L1
7.814000	21.90	6.8	50	28.1	AV	L1
17.034000	27.00	8.5	50	23.0	AV	L1

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2022/12/20 11:30

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	44.30	6.8	65	21.1	QP	N
0.366000	33.30	5.8	59	25.3	QP	N
1.850000	21.00	6.4	56	35.0	QP	N
7.722000	26.80	6.8	60	33.2	QP	N
8.770000	26.20	6.8	60	33.8	QP	N
17.082000	31.70	8.5	60	28.3	QP	N

MEASUREMENT RESULT: "agc_fin2"

2022/12/20 11:30

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	27.40	6.8	55	28.0	AV	N
0.382000	20.10	5.7	48	28.1	AV	N
1.622000	14.60	6.2	46	31.4	AV	N
2.602000	12.80	6.5	46	33.2	AV	N
8.374000	18.80	6.8	50	31.2	AV	N
17.174000	27.70	8.5	50	22.3	AV	N

RESULT: PASS

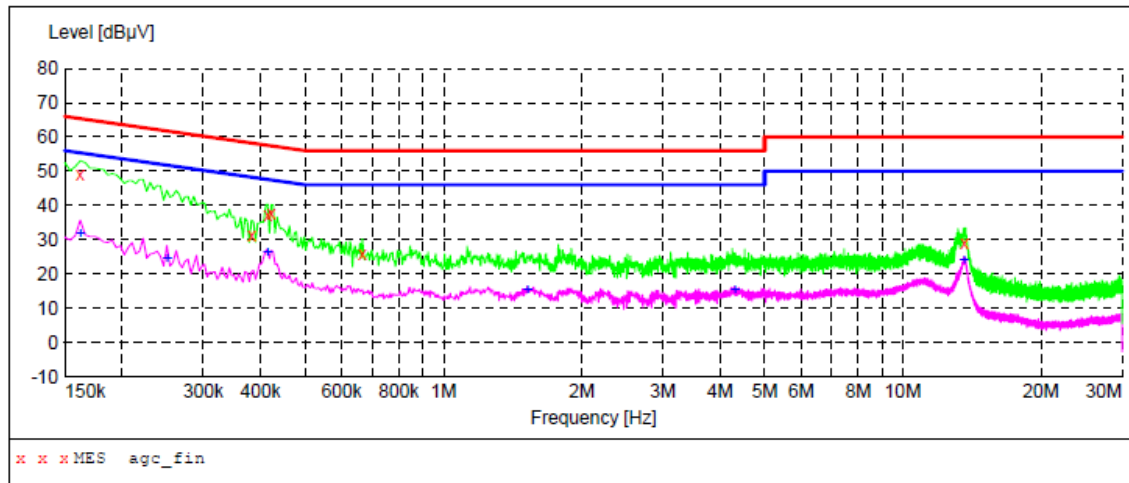
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Line Conducted Emission Test Line 1-L- The second sample



MEASUREMENT RESULT: "agc_fin"

2022/12/20 13:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	49.00	6.8	65	16.4	QP	L1
0.382000	31.20	5.7	58	27.0	QP	L1
0.414000	37.30	5.6	58	20.3	QP	L1
0.422000	37.70	5.6	57	19.7	QP	L1
0.666000	25.90	5.4	56	30.1	QP	L1
13.606000	29.20	8.0	60	30.8	QP	L1

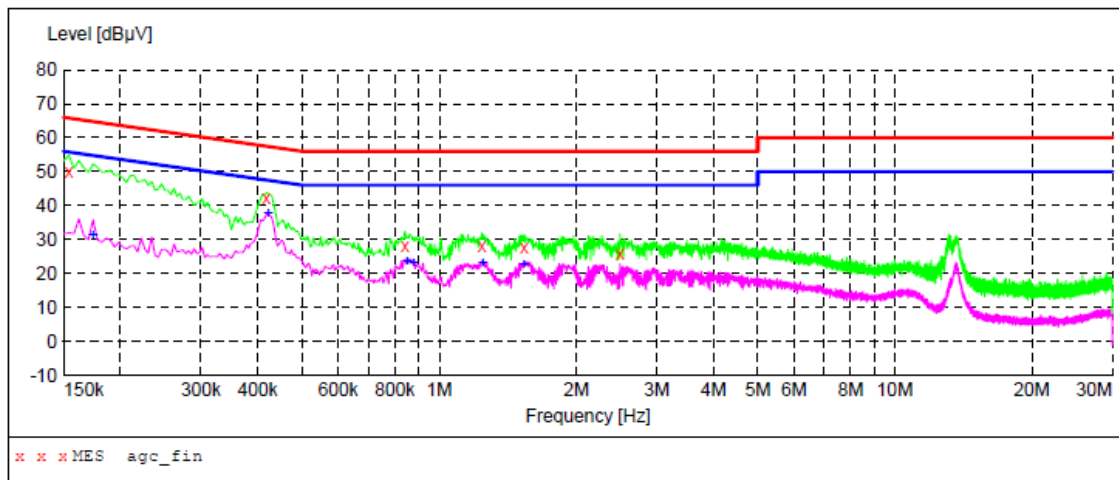
MEASUREMENT RESULT: "agc_fin2"

2022/12/20 13:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	31.70	6.8	55	23.7	AV	L1
0.250000	24.60	6.3	52	27.2	AV	L1
0.414000	26.20	5.6	48	21.4	AV	L1
1.522000	15.20	6.1	46	30.8	AV	L1
4.306000	15.10	6.5	46	30.9	AV	L1
13.606000	24.00	8.0	50	26.0	AV	L1

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2022/12/20 13:40

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	50.10	6.9	66	15.7	QP	N
0.418000	42.20	5.6	58	15.3	QP	N
0.842000	28.20	5.4	56	27.8	QP	N
1.242000	27.90	5.8	56	28.1	QP	N
1.538000	27.80	6.1	56	28.2	QP	N
2.494000	25.90	6.5	56	30.1	QP	N

MEASUREMENT RESULT: "agc_fin2"

2022/12/20 13:40

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.174000	31.10	6.7	55	23.7	AV	N
0.422000	37.60	5.6	47	9.8	AV	N
0.850000	23.60	5.4	46	22.4	AV	N
0.878000	23.20	5.4	46	22.8	AV	N
1.246000	23.00	5.8	46	23.0	AV	N
1.534000	22.70	6.1	46	23.3	AV	N

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC05877221202AP02

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC05877221202AP03

----END OF REPORT----

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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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