




Prüfbericht-Nr.: <i>Test Report No.:</i>	CN22PWZO 001	Auftrags-Nr.: <i>Order No.:</i>	168368728	Seite 1 von 22 Page 1 of 22
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	2423065	Auftragsdatum: <i>Order date.:</i>	22 Apr. 2022	
Auftraggeber: <i>Client:</i>	Shenzhen Meantop Optoelectronics Co., Ltd Floor 3rd, Building 11 North, Changxing Science & Industrial Park, Changzhen Community, Yutang Street, Guangming District, Shenzhen Guangdong P.R. China			
Prüfgegenstand: <i>Test item:</i>	5050 DC24V RGB CC Led Strip			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MT-FaQbVdZ-Wx (Refer to section 3.1 for details)			
Auftrags-Inhalt: <i>Order content:</i>	TUV Rheinland - EMC service			
Prüfgrundlage: <i>Test specification:</i>	EN IEC 55015:2019+A11 EN 61547:2009			
Wareneingangsdatum: <i>Date of receipt:</i>	22 Apr. 2022			
Prüfmuster-Nr.: <i>Test sample No.:</i>	B220519012			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by: Chris Mo</i>		genehmigt von: <i>authorized by: Tiger Su</i>		
Datum: <i>Date: 2022-06-29</i>		Ausstellungsdatum: <i>Issue date: 2022-06-29</i>		
Stellung / Position:	Project Engineer	Stellung / Position:	Reviewer	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

V05

TEST SUMMARY

5.1.1 DISTURBANCE VOLTAGE AT DC ELECTRIC POWER SUPPLY INTERFACE*RESULT: Pass***5.1.2 RADIATED ELECTROMAGNETIC DISTURBANCES***RESULT: Pass***5.2.1 RADIATED ELECTROMAGNETIC DISTURBANCES***RESULT: Pass***6.2.1 RADIO-FREQUENCY ELECTROMAGNETIC FIELD (RS)***RESULT: Pass***6.2.2 INJECTED CURRENTS / CONDUCTED SUSCEPTIBILITY (CS)***RESULT: Pass***6.3.1 ELECTRICAL FAST TRANSIENTS (EFT)***RESULT: Pass***6.3.2 ELECTROSTATIC DISCHARGES (ESD)***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

Appendix 2: Measurement Uncertainties

2. Test Sites

2.1 Test Facilities

Shenzhen Southern LCS Compliance Testing Laboratory Ltd.(LCS)
1-2F, B Area, Building B, Zhongyu Green High-tech Industrial Park, Wenge Road, Heshuikou,
Gongming Street, Guangming New District, Shenzhen, Guangdong, China

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Radiated Electromagnetic Disturbances (30-1000MHz) (LCS Lab)				
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-06-15
EMI Test Receiver	R&S	ESCI3	101010	2023-05-04
Spectrum Analyzer	Agilent	N9020A	MY49100699	2023-05-04
Log-periodic Antenna	SCHWARZBECK	VULB9163	5094	2025-05-19
Horn Antenna	ETS-LINDGREN	3115	00034771	2025-05-19
EMI Test Software	EZ	EZ_EMG	N/A	N/A
Controller	KGS	M4U450	N/A	N/A
Radiated Electromagnetic Disturbances (9kHz-30MHz) (LCS Lab)				
EMI Test Receiver	R&S	ESCI	101142	2023-05-04
Triple-loop Antenna	EVERFINE	LLA-2	9161	2023-05-04
EMI Test Software	EZ	EZ_EMG	N/A	N/A
No. 2 shielded Room	CHENGYU	843	N/A	2023-06-16
Disturbance Voltage (LCS Lab)				
EMI Test Receiver	R&S	ESCI	101142	2023-05-04
10dB Attenuator	SCHWARZBECK	VTSD9561-F	9561-F159	2023-05-04
Artificial Mains Network	SCHWARZBECK	NSLK8127	8127716	2023-05-04
EMI Test Software	EZ	EZ_EMG	N/A	N/A
Asymmetric Artificial Network	SCHWARZBECK	NTFM 8158	NTFM8158#120	2023-05-04
Voltage Probe	SCHWARZBECK	KT 9420	9420401	2023-05-04
No. 2 shielded Room	CHENGYU	843	N/A	2023-06-16
Radio Frequency Electromagnetic Field (LCS Lab)				
ESG Vector Signal Generator	Agilent	E4438C	MY42081396	2023-06-05
RF POWER AMPLIFIER	OPHIR	5225R	1052	N/A
RF POWER AMPLIFIER	OPHIR	5273F	1019	N/A
Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	N/A
Stacked Mikrowellen Log.-Per Antenna	SCHWARZBECK	STLP 9149	9149-484	N/A

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Electric field probe	Narda S.TS./PMM	EP601	611WX80208	2023-06-05
Radio-Frequency Continuous Conducted (LCS Lab)				
Conducted Susceptibility Generator	HTEC	CDG6000	126A140012016	2023-05-04
Coupling Network	HTEC	CDN-M2+M3	A22/0382/2016	2023-05-04
Attenuator 6dB	HTEC	ATT6	HA1601	2023-05-04
Electromagnetic clamp	LUTHI	EM101	35535	2023-05-04
EFT (LCS Lab)				
Electrical Fast Transient Generator	HTEC	HEFT51	162201	2023-05-04
Coupling Clamp	HTEC	H3C	163701	2023-05-04
ESD (LCS Lab)				
ESD Simulator	TESEQ	NSG 437	1615	2023-03-21

3. General Product Information

3.1 Product Function and Intended Use

The EUTs (Equipments Under Test) are 5050 DC24V RGB CC Led Strip for illumination purpose. This product is marketed without controller/driver.

Model: MT-FaQbVdZ-Wx (a, b, d, Z and x are variables.)

“MT”, means company name: Meantop

“F” means Flexible LED Strip

“a” Digital number: 1-16

“a” means the type of LED Chips: 1=Type 3030, 2=Type 2835, 3=Type 3528, 4=Type 3014, 5=type 5050, 6=type 5630, 7=type 2216, 8=type 3535, 9=type 4014, 10=type 335, 11=type 4040, 12=type 4020, 13=type 2110, 14=type 4713, 15=type 2022, 16=COB.

“b” Digital number

“Qb” means quantities of LED chips and the “b” means the quantities of led chips per meter can be 3,8,10,12,14,16,18,22,30,36,42,48,54,60,64,70,72,80,84,90,96,108,112,120,126,128,140,144,168,176,182,192,204,224,238,240,266,288,300,360,400,420,480,700 etc. (range from 3-1000 led chips quantity)

“d” Digital number: 5,12, 24,36,48;

‘Vd’ means input voltage of LED strip, for examples, ‘5’ means DC 5V, ‘24’ means DC 24V.

“Z” means the color of led strip and some special features, it can be C1-C11 or C1f-C11f;

C1=Red, C2=Green, C3=Blue, C4=Yellow, C5=White, C6=Warm White, C7=Natural White,

C8=RGB, C9=RGBW, C10=RGBWWW, C11=other special color, “f” means some special

features of led strip, it can be CC, A, CT; CC means constant current; A means addressable, CT means color temperature tunable;

“x” Digital number 2:IP20, 4:IP54, 5:IP65, 6:IP66, 7:IP67, 8:IP68

‘Wx’ indicates waterproof level of LED strip, for examples, ‘W2’ means IP20, ‘W8’ means IP68.

For more information refer to the schematic diagram & instruction manual.

3.2 Ratings and System Details

System input voltage: Refer to section 3.1

Frequency: --

Protection class: III

3.3 Independent Operation Modes

The basic operation modes are:

A. On.

B. Off.

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Schematic Diagram.

3.5 Submitted Documents

- Rating label
- Instruction manual
- Schematic diagram

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipments under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipments under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in section 5 & 6. According to the product characteristics and the description indicated in section 3.1, tests were applied to models MT-F2Q120V24C7-W2, MT-F7Q240V24C7-W2, MT-F6Q60V24C7-W2, MT-F3Q120V24C7-W2, MT-F5Q60V24C8-W2.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test samples, which have been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Disturbance Voltage at DC electric power supply interface

RESULT:**Pass**

Date of testing : 2022-05-23
Test standard : EN IEC 55015:2019+A11
Frequency range : 0.009 - 30MHz
Limits : Table 1
Kind of test site : Shielded room

Test setup

Input Voltage : DC 24V
Operation Condition : According to Clause 7 & A.3
Operation mode : A
Earthing : Not connected

Detailed test data refer to attached Appendix 1.

Remark:

Table 1 limits which are more severe (starting at 9 kHz) than Table 5 or Table 6 limits.

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5.1.2 Radiated Electromagnetic Disturbances

RESULT:**Pass**

Date of testing : 2022-05-23
Test standard : EN IEC 55015:2019+A11
Frequency range : 0.009 – 30MHz
Limits : Table 8 of EN IEC 55015:2019+A11
Kind of test site : Shielded room

Test setup

Input Voltage : DC 24V
Operation Condition : According to Clause 7 & A.3
Operation mode : A
Earthing : Not connected

Detailed test data refer to attached Appendix 1.

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Electromagnetic Disturbances

RESULT:**Pass**

Date of testing : 2022-05-23
Test standard : EN IEC 55015:2019+A11
Frequency range : 30 – 1000MHz
Limits : Table 10 of EN IEC 55015:2019+A11
Kind of test site : 3m semi-anechoic chamber

Test setup:

Input Voltage : DC 24V
Operation Condition : According to Clause 7 & A.3
Operation mode : A
Earthing : Not connected

Detailed test data refer to attached Appendix 1.

6. Test Results IMMUNITY

6.1 Classification of apparatus

According to EN 61547:2009, the EUTs belong to luminaires, and shall be tested in accordance with clause 5 and comply with the performance criterion of table 15.

Continuous Disturbance

Radio-Frequency Electromagnetic Fields (RS)	Criterion A
Injected Currents	Criterion A
Power Frequency Magnetic Fields *	Criterion A

Transient Disturbance

Fast Transient (EFT)	Criterion B
Electrostatic Discharges (ESD)	Criterion B

Remark:

* Power Frequency Magnetic Fields is not applicable, since the EUTs do not contain any components susceptible to magnetic fields.

6.2 Continuous Disturbances

6.2.1 Radio-Frequency Electromagnetic Field (RS)

RESULT:
Pass

Date of Testing : 2022-05-24
 Test Specification : EN 61547:2009 Table 2
 Basic Standard : IEC 61000-4-3:2006
 Criterion : A
 Frequency Range : 80 – 1,000MHz
 Test Level : 3V/m (Unmodulated, rms)
 Modulation : 80% AM, 1kHz

Test setup

Input Voltage : DC 24V
 Operation Mode : A
 Earthing : Not connected
 Ambient Temperature : 23.5°C
 Relative Humidity : 53%
 Atmospheric Pressure : 101kPa

Test Result

Frequency Range	Polarization	Test Level (Unmodulated, rms)	Performance Criterion	Location	Result
80MHz to 1000MHz	Horizontal and Vertical	3V/m (rms)	A	Front/Rear/Left/Right	Pass

Remark: Operating as intended, no degradation detected during and after testing.

6.2.2 Injected Currents / Conducted Susceptibility (CS)

RESULT:
Pass

Date of testing : 2022-05-24
 Test Specification : EN 61547:2009, Table 8
 Basic Standard : IEC 61000-4-6:2008
 Criterion : A
 Frequency range : 0.15 – 80MHz
 Source impedance : 150Ω
 Test level : Level 2 (3V) (unmodulated, rms.)
 Modulation : AM 80%, 1kHz sine-wave
 Sweep mode : automatic
 Sweep rate : 1.5×10^{-3} decade / sec.

Test setup

Input Voltage : DC 24V
 Operation Mode : A
 Earthing : Not connected
 Ambient temperature : 23.7°C
 Relative humidity : 51%
 Atmospheric pressure : 101kPa

Test Result

Ports	Cable Type	Coupling Network	Frequency Range	Test Level	Criterion	Description	Conclusion
DC Input	Unshielded	CDN M2	150kHz-80MHz	3V (rms)	A	Operating as intended, no degradation detected during and after testing	Pass

6.3 Transient Disturbances

6.3.1 Electrical Fast Transients (EFT)

RESULT:
Pass

Date of testing : 2022-05-24
 Test Specification : EN 61547:2009, Table 5
 Basic Standard : IEC 61000-4-4:2004
 Criterion : B
 Test level : ±0.5kV
 Test duration : ≥60sec
 Rise time : 5/50ns
 Repetition frequency : 5 kHz

Test setup

Input Voltage : DC 24V
 Operation Mode : A
 Earthing : Not connected
 Ambient temperature : 23.5°C
 Relative humidity : 53%
 Atmospheric pressure : 101kPa

Test Result

Applicable	Coupling	Polarity	Voltage	Result
<input checked="" type="checkbox"/>	DC input	+	<input type="checkbox"/> 1 kV	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
		-	<input checked="" type="checkbox"/> 0.5 kV <input type="checkbox"/>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

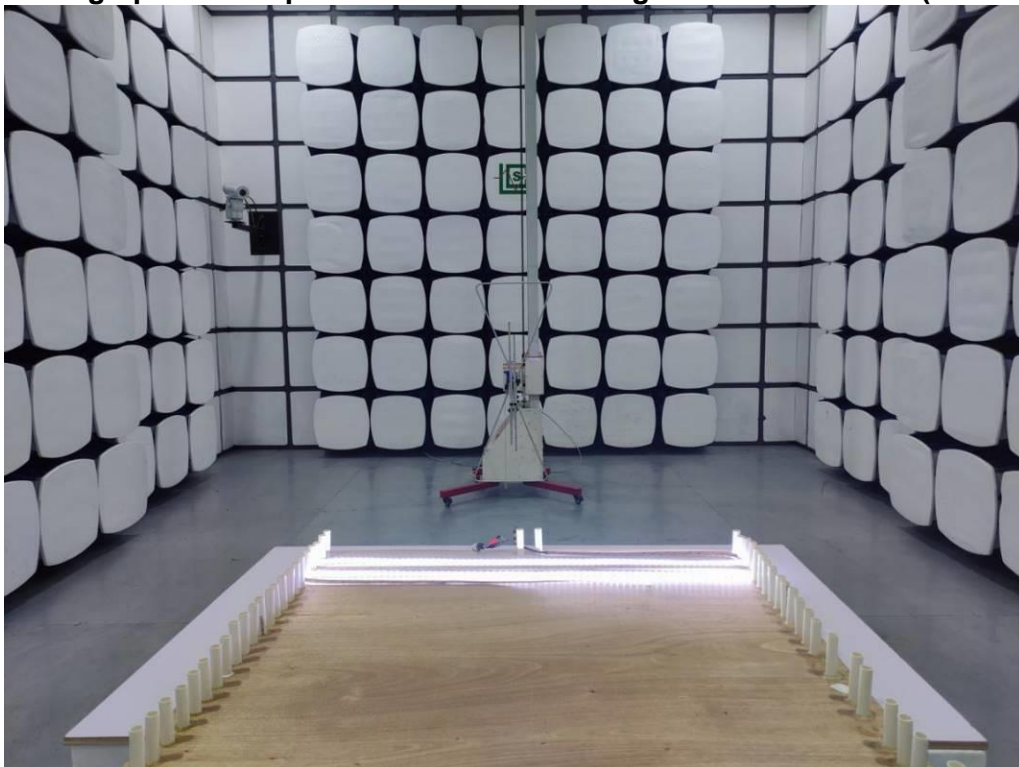
Remark: Operating as intended, no failure detected

7. Photographs of the Test Set-Up

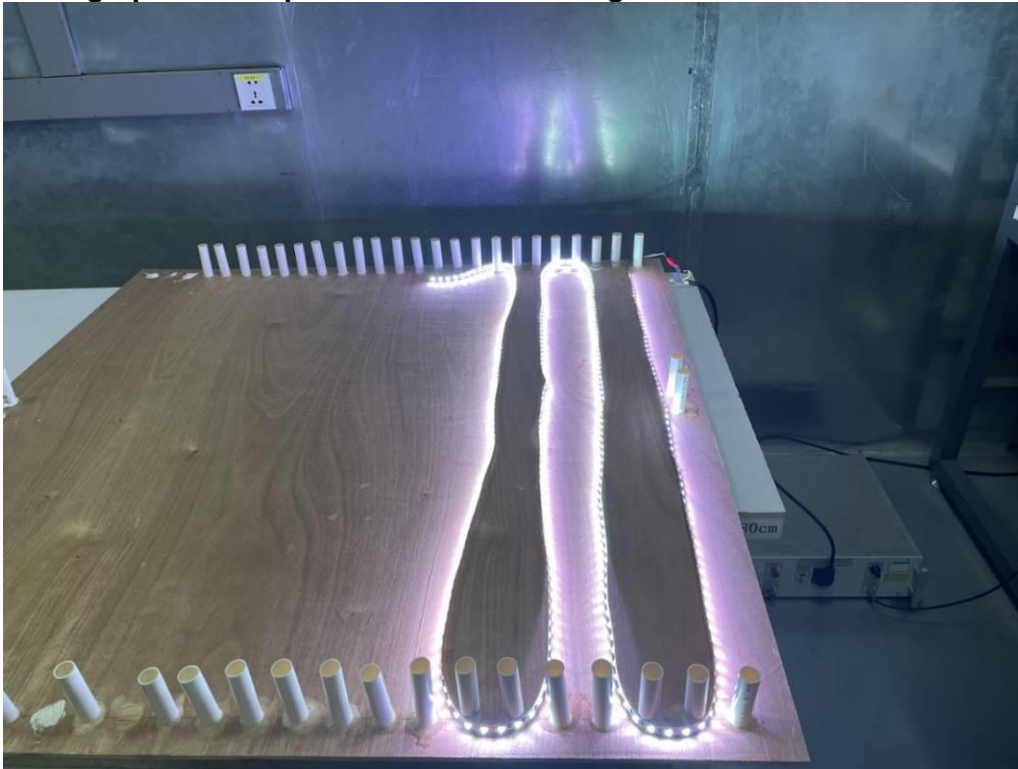
Photograph 1: Set-up for Radiated Electromagnetic Disturbances (9kHz-30MHz)



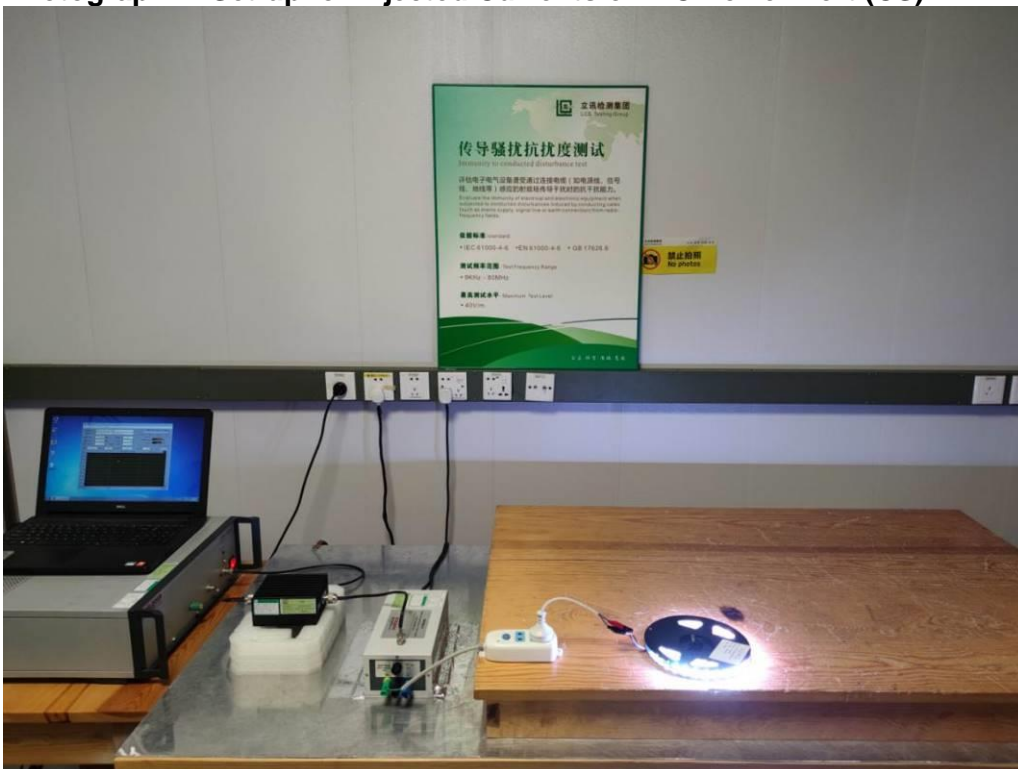
Photograph 2: Set-up for Radiated Electromagnetic Disturbances (30MHz-1000MHz)



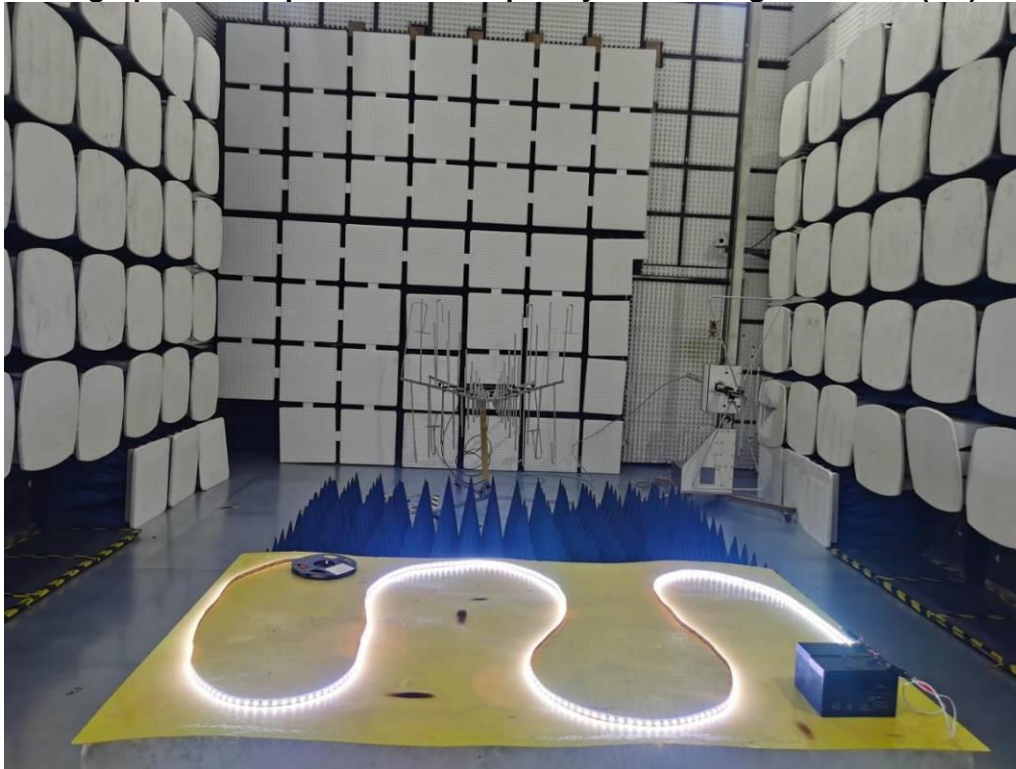
Photograph 3: Set-up for Disturbance Voltage



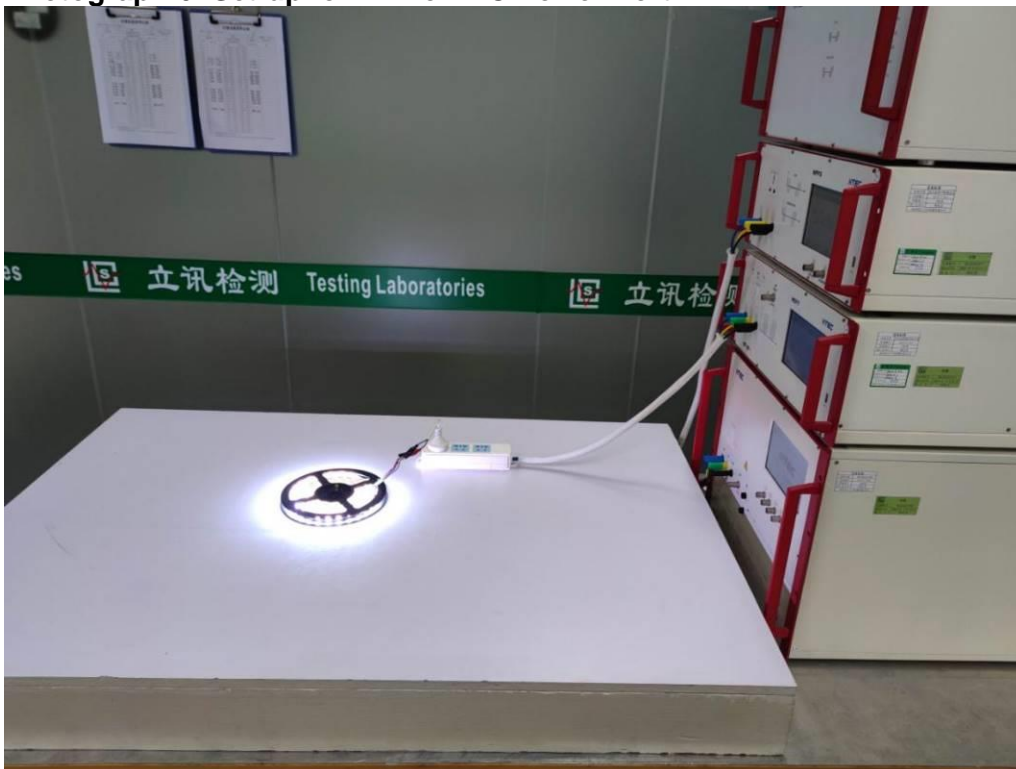
Photograph 4: Set-up for Injected Currents on DC Power Port (CS)



Photograph 5: Set-up for Radio-Frequency Electromagnetic Field (RS)



Photograph 6: Set-up for EFT on DC Power Port



Photograph 7: Set-up for Electrostatic Discharges (ESD)

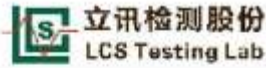


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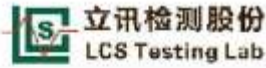
Conducted Emission Measurement



Site: Chamber #1 Phase: **L1** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F5Q60V24C8-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.5172	-1.24	10.20	8.96	56.00	-47.04	QP	
2	*	0.5172	-4.18	10.20	6.02	46.00	-39.98	AVG	
3		1.0393	-1.59	10.20	8.61	56.00	-47.39	QP	
4		1.0393	-4.34	10.20	5.86	46.00	-40.14	AVG	
5		3.4457	-0.71	10.20	9.49	56.00	-46.51	QP	
6		3.4457	-5.30	10.20	4.90	46.00	-41.10	AVG	

*:Maximum data x:Over limit l:over margin



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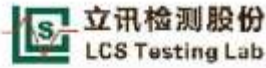
Conducted Emission Measurement



Site: Chamber #1 Phase: **N** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F5Q60V24C8-W2
Mode: Lighting
Note:

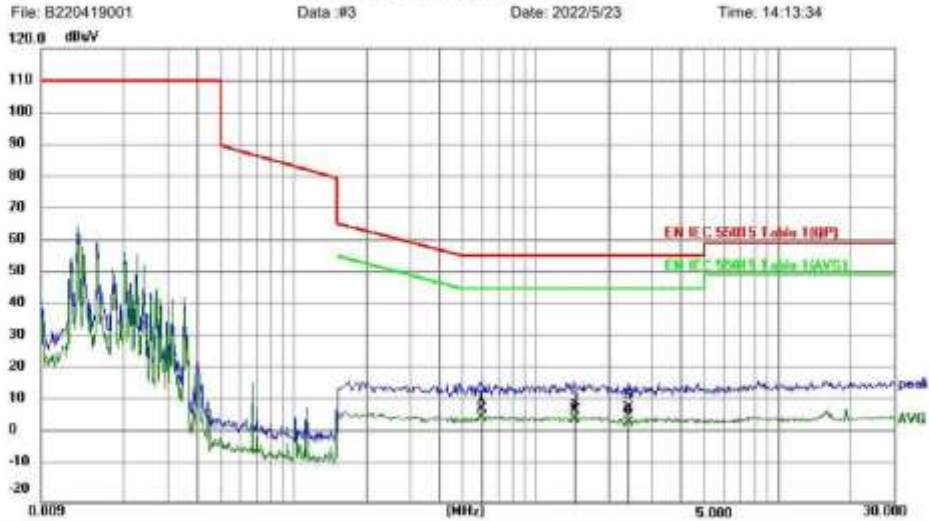
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.5096	-1.68	10.20	8.52	56.00	-47.48	QP	
2	*	0.5096	-4.59	10.20	5.61	46.00	-40.39	AVG	
3		1.1803	-1.95	10.20	8.25	56.00	-47.75	QP	
4		1.1803	-4.65	10.20	5.55	46.00	-40.45	AVG	
5		1.9388	-1.77	10.20	8.43	56.00	-47.57	QP	
6		1.9388	-4.63	10.20	5.57	46.00	-40.43	AVG	

*:Maximum data x:Over limit l:over margin



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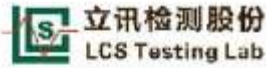
Conducted Emission Measurement



Site: Chamber #1 Phase: **N** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F2Q120V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.5992	-1.24	10.20	8.96	56.00	-47.04	QP	
2	*	0.5992	-4.22	10.20	5.98	46.00	-40.02	AVG	
3		1.4562	-1.50	10.20	8.70	56.00	-47.30	QP	
4		1.4562	-4.46	10.20	5.74	46.00	-40.26	AVG	
5		2.4250	-0.99	10.20	9.21	56.00	-46.79	QP	
6		2.4250	-5.57	10.20	4.63	46.00	-41.37	AVG	

*:Maximum data x:Over limit !:over margin



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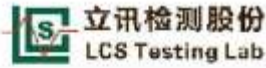
Conducted Emission Measurement



Site: Chamber #1 Phase: **N** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F2Q120V24C7-W2
Mode: Lighting
Note:

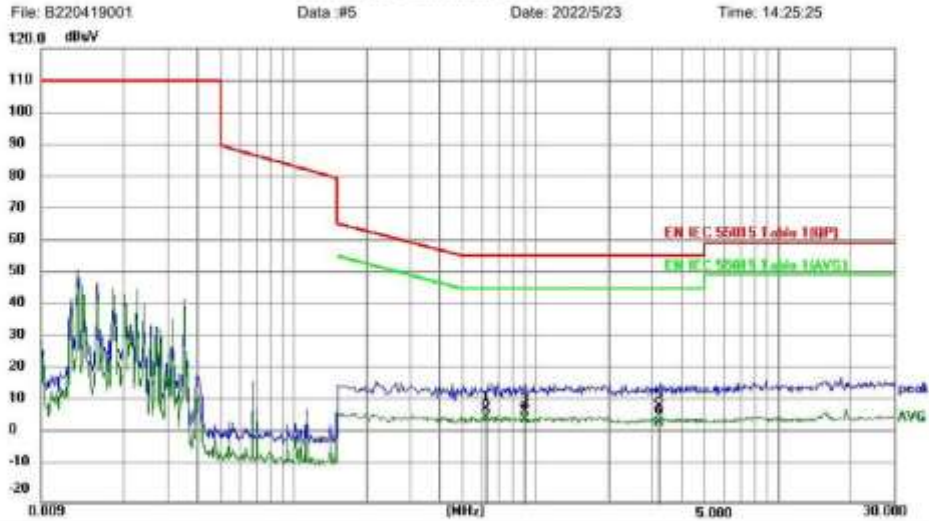
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.5121	-1.59	10.20	8.61	56.00	-47.39	QP	
2	*	0.5121	-4.53	10.20	5.67	46.00	-40.33	AVG	
3		0.7922	-1.95	10.20	8.25	56.00	-47.75	QP	
4		0.7922	-4.70	10.20	5.50	46.00	-40.50	AVG	
5		1.5537	-1.77	10.20	8.43	56.00	-47.57	QP	
6		1.5537	-4.63	10.20	5.57	46.00	-40.43	AVG	

*:Maximum data x:Over limit l:over margin



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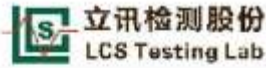
Conducted Emission Measurement



Site: Chamber #1 Phase: **N** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F7Q240V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.6244	-1.33	10.20	8.87	56.00	-47.13	QP	
2	*	0.6244	-4.29	10.20	5.91	46.00	-40.09	AVG	
3		0.9036	-1.86	10.20	8.34	56.00	-47.66	QP	
4		0.9036	-4.61	10.20	5.59	46.00	-40.41	AVG	
5		3.2620	-0.73	10.20	9.47	56.00	-46.53	QP	
6		3.2620	-5.37	10.20	4.83	46.00	-41.17	AVG	

*:Maximum data x:Over limit l:over margin



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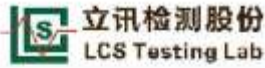
Conducted Emission Measurement



Site: Chamber #1 Phase: **L1** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F7Q240V24C7-W2
Mode: Lighting
Note:

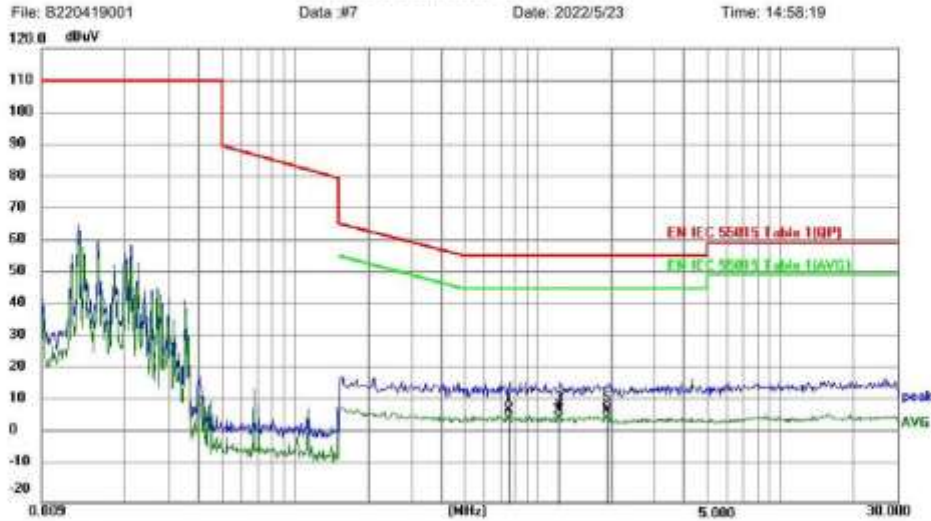
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.5253	-1.50	10.20	8.70	56.00	-47.30	QP	
2	*	0.5253	-4.46	10.20	5.74	46.00	-40.26	AVG	
3		1.5209	-1.86	10.20	8.34	56.00	-47.66	QP	
4		1.5209	-4.66	10.20	5.54	46.00	-40.46	AVG	
5		3.7136	-0.94	10.20	9.26	56.00	-46.74	QP	
6		3.7136	-5.42	10.20	4.78	46.00	-41.22	AVG	

*:Maximum data x:Over limit !:over margin



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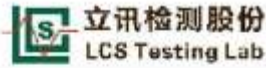
Conducted Emission Measurement



Site: Chamber #1 Phase: **L1** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F3Q120V24C7W2
Mode: Lighting
Note:

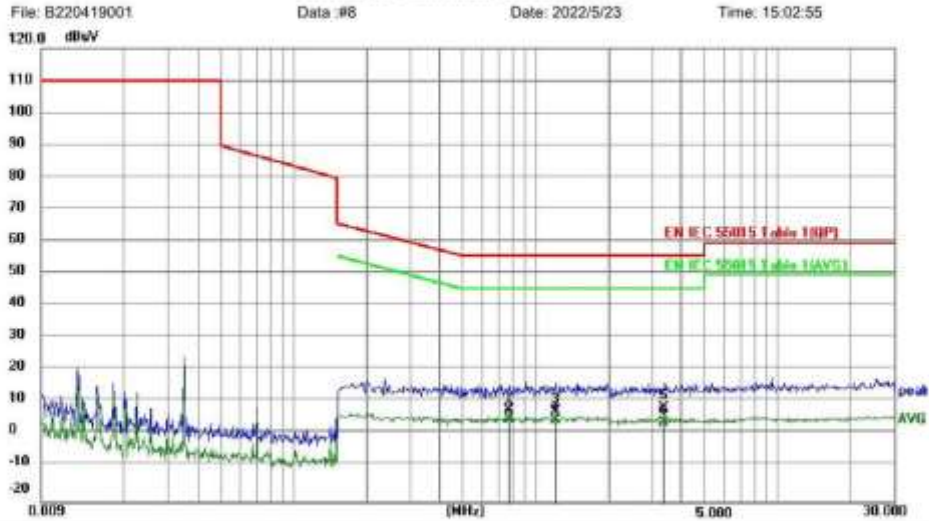
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.7593	-1.50	10.20	8.70	56.00	-47.30	QP	
2		0.7593	-4.38	10.20	5.82	46.00	-40.18	AVG	
3		1.2245	-1.59	10.20	8.61	56.00	-47.39	QP	
4		1.2245	-4.56	10.20	5.64	46.00	-40.36	AVG	
5		1.9449	-1.68	10.20	8.52	56.00	-47.48	QP	
6	*	1.9449	-4.34	10.20	5.86	46.00	-40.14	AVG	

*:Maximum data x:Over limit !:over margin



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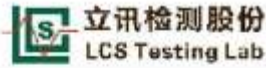
Conducted Emission Measurement



Site: Chamber #1 Phase: **N** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F3Q120V24C7W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.7802	-1.68	10.20	8.52	56.00	-47.48	QP	
2	*	0.7802	-4.61	10.20	5.59	46.00	-40.41	AVG	
3		1.2109	-1.86	10.20	8.34	56.00	-47.66	QP	
4		1.2109	-4.67	10.20	5.53	46.00	-40.47	AVG	
5		3.3754	-0.84	10.20	9.36	56.00	-46.64	QP	
6		3.3754	-5.45	10.20	4.75	46.00	-41.25	AVG	

*:Maximum data x:Over limit !:over margin



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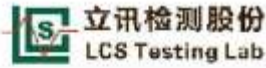
Conducted Emission Measurement



Site: Chamber #1 Phase: **N** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F6Q60V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.6834	-1.59	10.20	8.61	56.00	-47.39	QP	
2	*	0.6834	-4.45	10.20	5.75	46.00	-40.25	AVG	
3		0.8965	-1.77	10.20	8.43	56.00	-47.57	QP	
4		0.8965	-4.60	10.20	5.60	46.00	-40.40	AVG	
5		1.9478	-1.77	10.20	8.43	56.00	-47.57	QP	
6		1.9478	-4.60	10.20	5.60	46.00	-40.40	AVG	

*:Maximum data x:Over limit l:over margin



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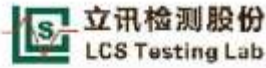
Conducted Emission Measurement



Site: Chamber #1 Phase: **L1** Temperature: 24.1
Limit: EN IEC 55015 Table 1(QP) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F6Q60V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.6829	-1.59	10.20	8.61	56.00	-47.39	QP	
2	*	0.6829	-4.43	10.20	5.77	46.00	-40.23	AVG	
3		1.6708	-1.77	10.20	8.43	56.00	-47.57	QP	
4		1.6708	-4.60	10.20	5.60	46.00	-40.40	AVG	
5		3.3226	-0.81	10.20	9.39	56.00	-46.61	QP	
6		3.3226	-5.34	10.20	4.86	46.00	-41.14	AVG	

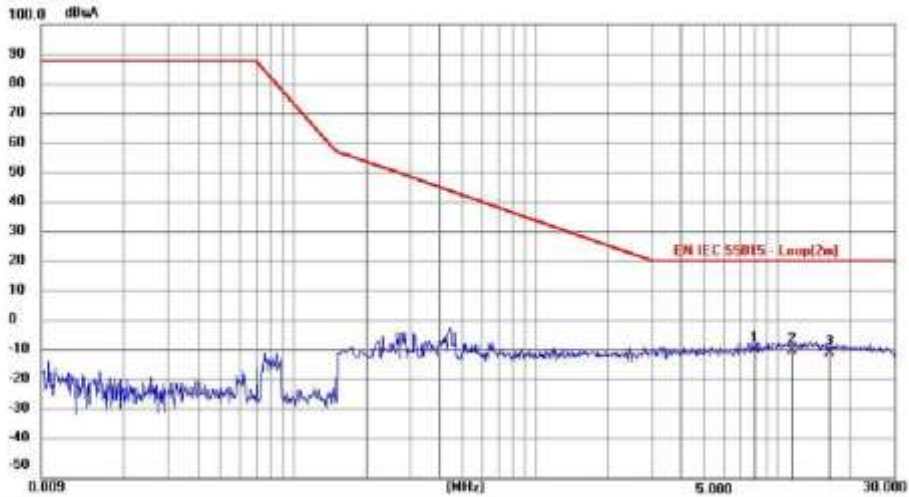
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

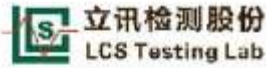
File: B220419001 Data :#11 Date: 2022/5/23 Time: 15:20:28



Site: Chamber #1 Polarization: X Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F5Q60V24C8-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1	*	8.0024	-32.70	25.20	-7.50	22.00	-29.50	QP	
2		11.4180	-34.01	26.06	-7.95	22.00	-29.95	QP	
3		16.3590	-34.05	25.56	-8.49	22.00	-30.49	QP	

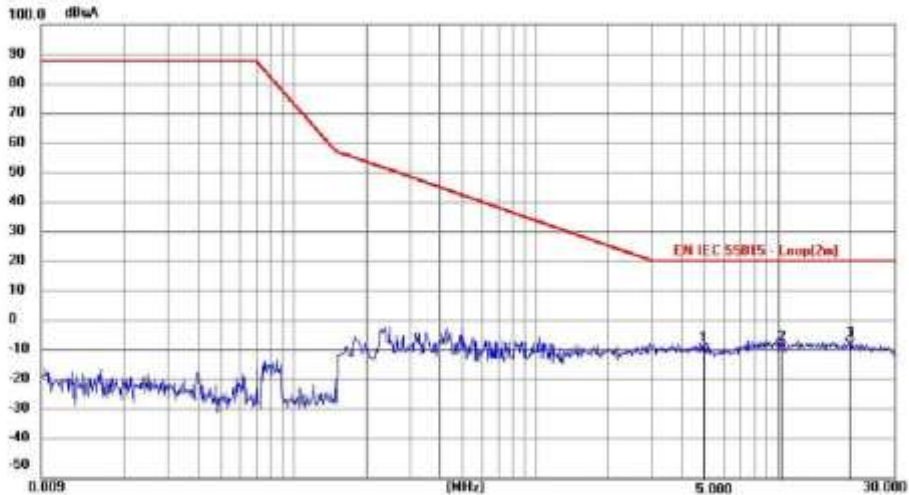
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

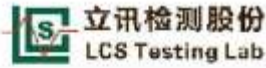
File: B220419001 Data :#12 Date: 2022/5/23 Time: 15:28:25



Site: Chamber #1 Polarization: Y Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F5Q60V24C8-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		4.9245	-33.16	25.64	-7.52	22.00	-29.52	QP	
2		10.3605	-33.31	26.37	-6.94	22.00	-28.94	QP	
3	*	19.8690	-31.61	25.61	-6.00	22.00	-28.00	QP	

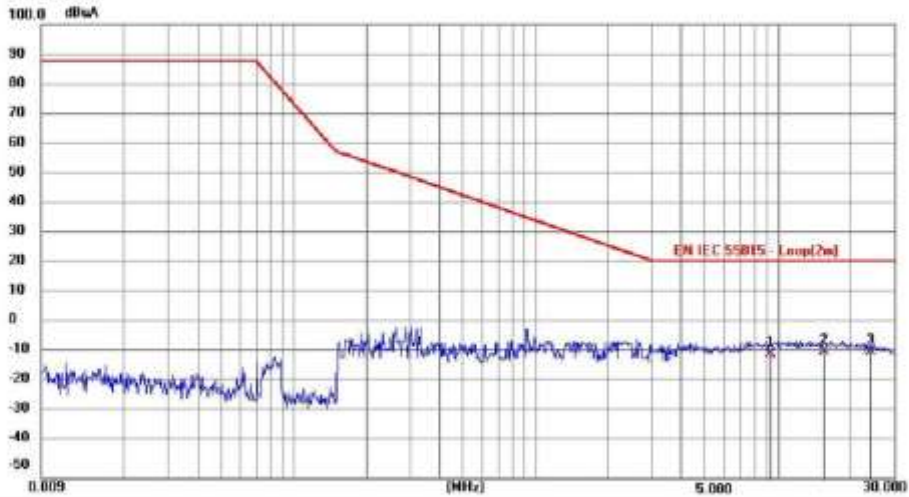
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

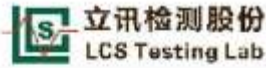
File: B220419001 Data :#13 Date: 2022/5/23 Time: 15:31:48



Site: Chamber #1 Polarization: Z Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F5Q60V24C8-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		9.2624	-35.55	26.70	-8.85	22.00	-30.85	QP	
2	*	15.4815	-34.39	26.34	-8.05	22.00	-30.05	QP	
3		24.1395	-33.00	24.81	-8.19	22.00	-30.19	QP	

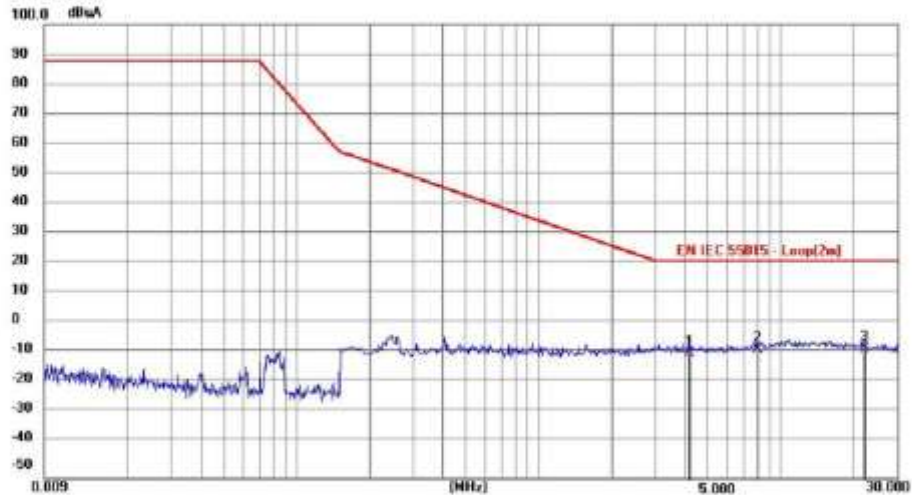
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

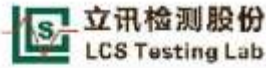
File: B220419001 Data :#14 Date: 2022/5/23 Time: 15:37:19



Site: Chamber #1 Polarization: X Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F2Q120V24C7-W2
Mode: Lighting
Note:

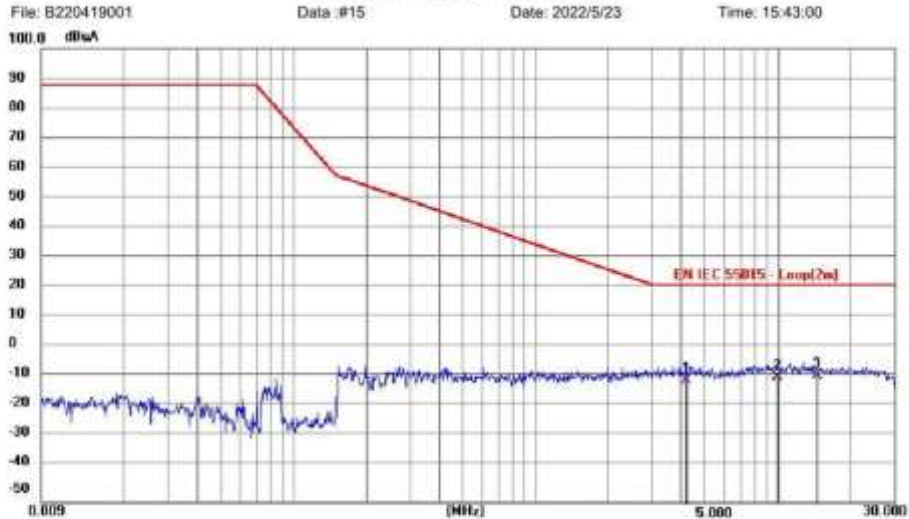
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		4.1640	-33.60	25.18	-8.42	22.00	-30.42	QP	
2		7.9394	-32.45	25.19	-7.26	22.00	-29.26	QP	
3	*	22.1190	-31.80	24.82	-6.98	22.00	-28.98	QP	

*:Maximum data x:Over limit !:over margin



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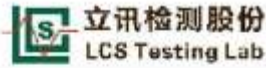
Radiated Emission Measurement



Site: Chamber #1 Polarization: **Y** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F2Q120V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		4.1684	-35.54	26.02	-9.52	22.00	-31.52	QP	
2		9.9375	-35.09	26.39	-8.70	22.00	-30.70	QP	
3	*	14.5005	-34.26	26.04	-8.22	22.00	-30.22	QP	

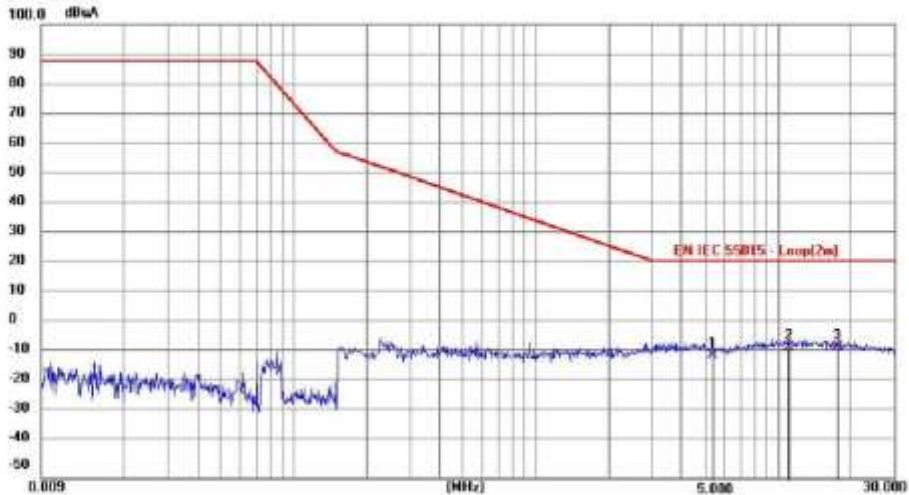
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

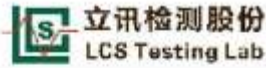
File: B220419001 Data :#16 Date: 2022/5/23 Time: 15:48:15



Site: Chamber #1 Polarization: **Z** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F2Q120V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		5.3340	-35.15	25.90	-9.25	22.00	-31.25	QP	
2	*	11.0085	-33.48	26.88	-6.60	22.00	-28.60	QP	
3		17.6775	-32.79	26.08	-6.71	22.00	-28.71	QP	

*:Maximum data x:Over limit !:over margin



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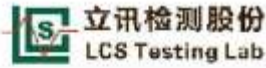
Radiated Emission Measurement



Site: Chamber #1 Polarization: X Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F7Q240V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		4.2540	-29.09	26.39	-2.70	22.00	-24.70	QP	
2	*	7.7460	-27.32	26.12	-1.20	22.00	-23.20	QP	
3		11.9535	-29.77	26.77	-3.00	22.00	-25.00	QP	

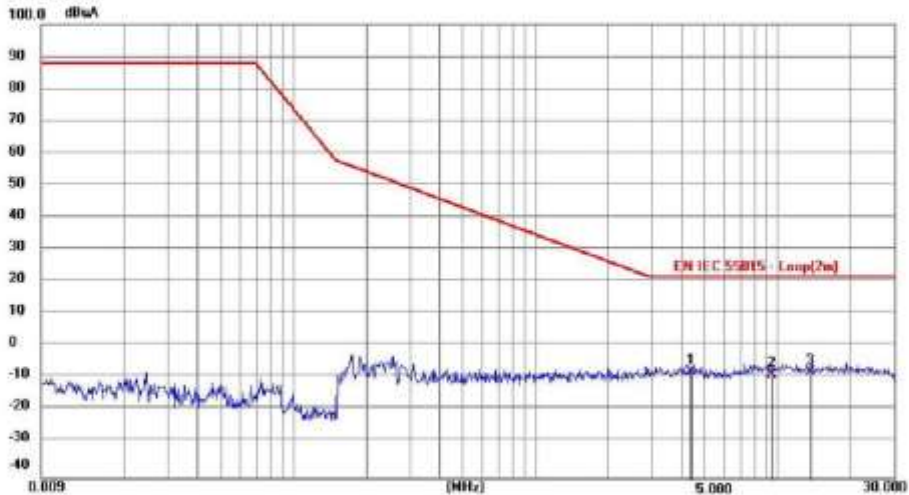
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

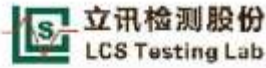
File: B220419001 Data :#18 Date: 2022/5/23 Time: 16:01:18



Site: Chamber #1 Polarization: **Y** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F7Q240V24C7-W2
Mode: Lighting
Note:

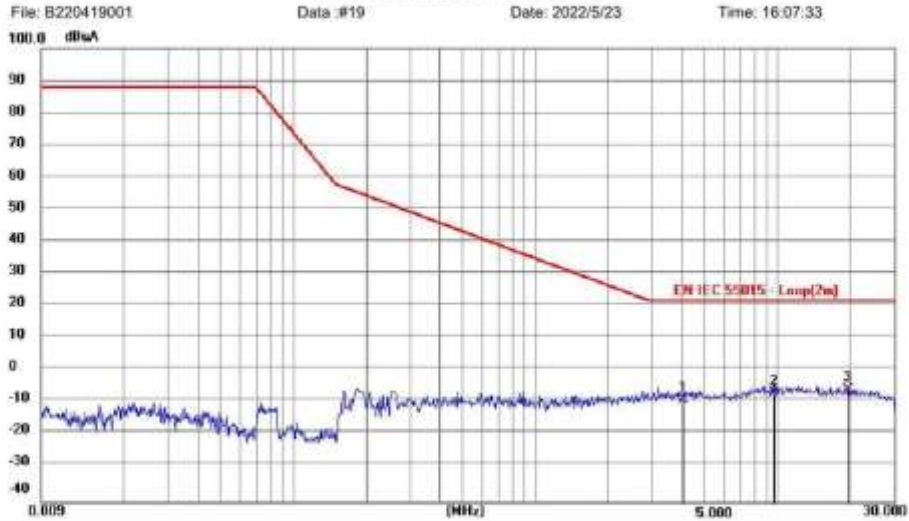
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		4.3755	-33.34	25.91	-7.43	22.00	-29.43	QP	
2		9.3525	-34.40	26.30	-8.10	22.00	-30.10	QP	
3	*	13.5735	-33.40	26.11	-7.29	22.00	-29.29	QP	

*:Maximum data x:Over limit !:over margin



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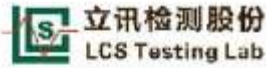
Radiated Emission Measurement



Site: Chamber #1 Polarization: **Z** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F7Q240V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		4.0650	-34.67	26.47	-8.20	22.00	-30.20	QP	
2		9.6225	-33.00	26.85	-6.15	22.00	-28.15	QP	
3	*	19.3830	-30.91	25.87	-5.04	22.00	-27.04	QP	

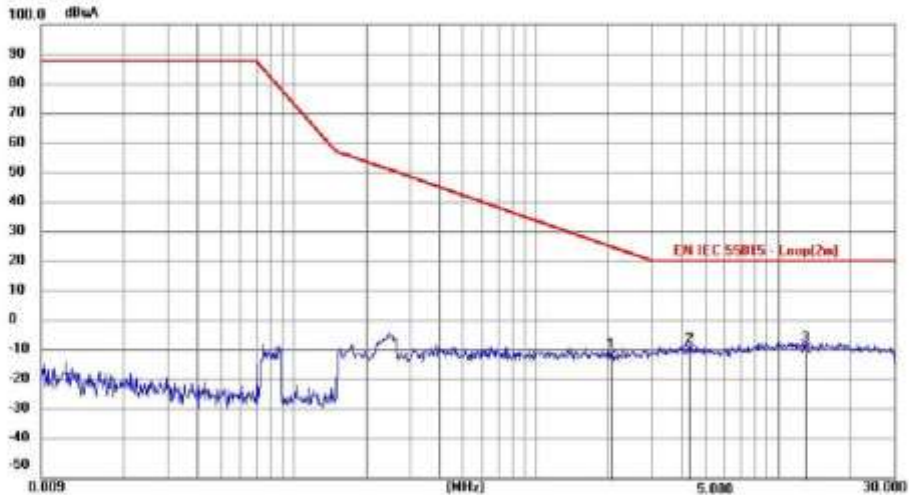
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

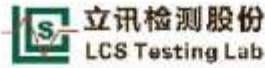
File: B220419001 Data :#20 Date: 2022/5/23 Time: 16:13:29



Site: Chamber #1 Polarization: X Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F3Q120V24C7W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		2.0579	-34.23	24.71	-9.52	26.53	-36.05	QP	
2		4.3350	-32.98	25.17	-7.81	22.00	-29.81	QP	
3	*	12.9750	-33.40	25.90	-7.50	22.00	-29.50	QP	

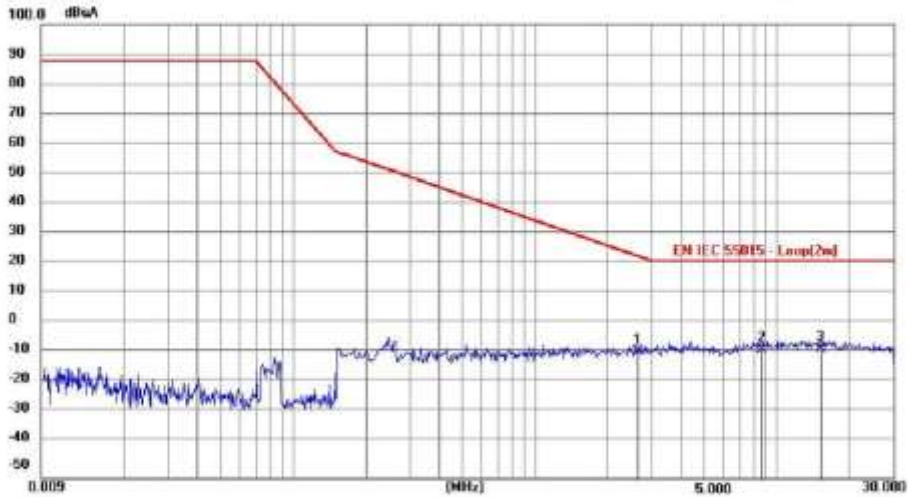
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

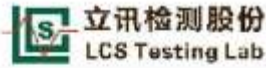
File: B220419001 Data :#21 Date: 2022/5/23 Time: 16:19:34



Site: Chamber #1 Polarization: **Y** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F3Q120V24C7W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		2.6610	-33.84	25.63	-8.21	23.44	-31.65	QP	
2		8.6684	-33.72	26.20	-7.52	22.00	-29.52	QP	
3	*	15.0810	-32.89	25.99	-6.90	22.00	-28.90	QP	

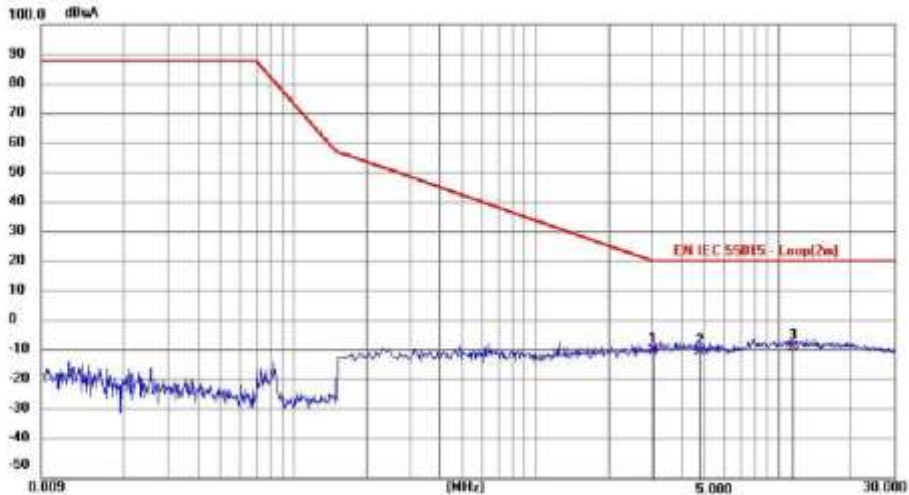
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

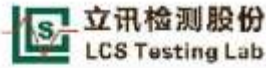
File: B220419001 Data :#22 Date: 2022/5/23 Time: 16:25:45



Site: Chamber #1 Polarization: **Z** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F3Q120V24C7W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		3.0480	-33.85	25.93	-7.92	22.00	-29.92	QP	
2		4.7895	-34.26	26.14	-8.12	22.00	-30.12	QP	
3	*	11.5800	-33.35	26.81	-6.54	22.00	-28.54	QP	

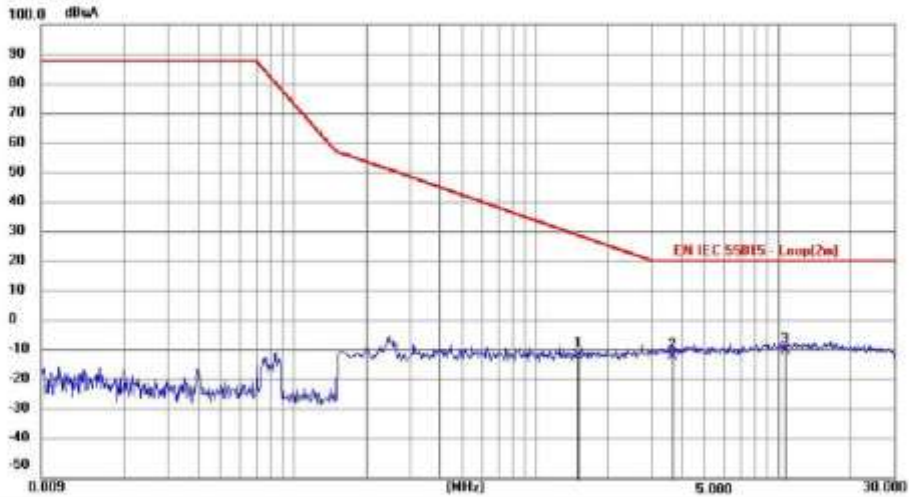
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

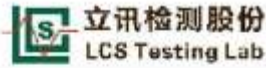
File: B220419001 Data :#23 Date: 2022/5/23 Time: 16:31:34



Site: Chamber #1 Polarization: X Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F6Q60V24C7-W2
Mode: Lighting
Note:

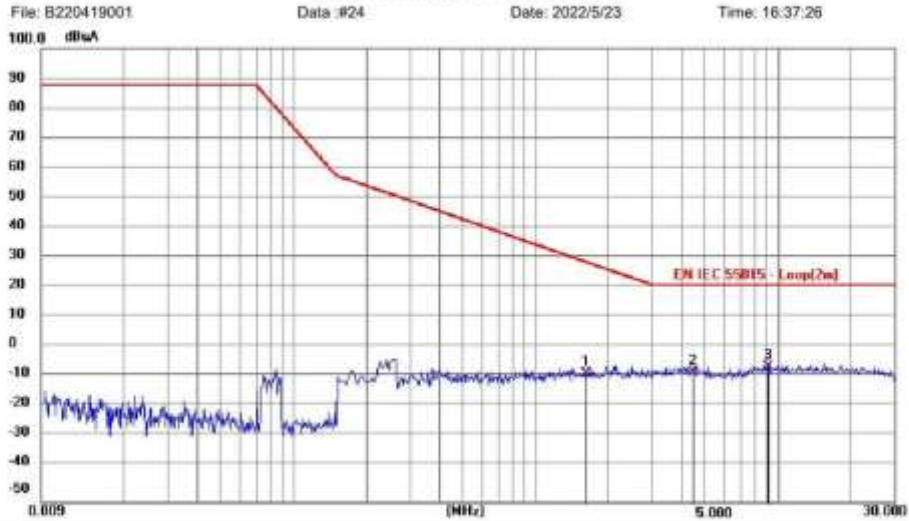
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		1.4955	-33.90	24.75	-9.15	30.37	-39.52	QP	
2		3.6780	-34.62	25.12	-9.50	22.00	-31.50	QP	
3	*	10.6755	-34.11	26.13	-7.98	22.00	-29.98	QP	

*:Maximum data x:Over limit !:over margin



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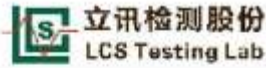
Radiated Emission Measurement



Site: Chamber #1 Polarization: **Y** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F6Q60V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		1.6125	-32.80	25.44	-7.36	29.46	-36.82	QP	
2		4.4610	-32.97	25.87	-7.10	22.00	-29.10	QP	
3	*	9.1725	-31.64	26.28	-5.36	22.00	-27.36	QP	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement



Site: Chamber #1 Polarization: **Z** Temperature: 24.1
Limit: EN IEC 55015 - Loop(2m) Power: DC24V Humidity: 55 %RH
EUT: Flexible led strip
M/N: MT-F6Q60V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuA	dBuA	dB		
1		1.7205	-32.45	25.10	-7.35	28.68	-36.03	QP	
2		3.7995	-33.23	26.38	-6.85	22.00	-28.85	QP	
3	*	12.6735	-32.08	26.68	-5.40	22.00	-27.40	QP	

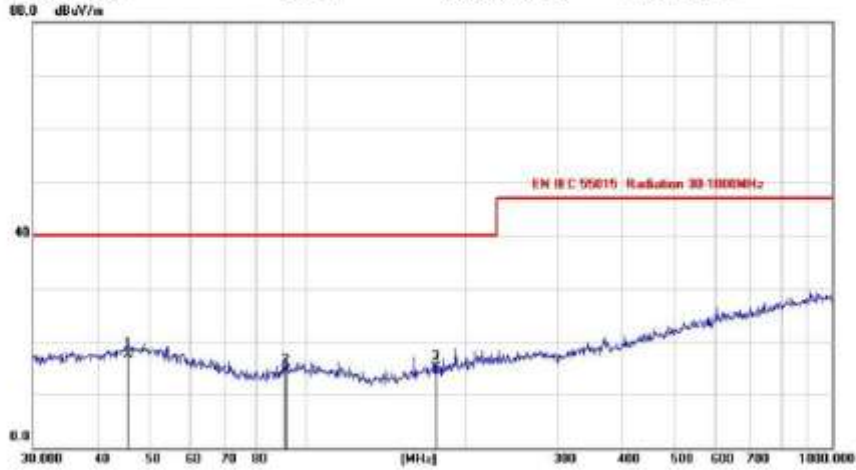
*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

File :B220419001 Data :#1 Date: 2022/05/23 Time: 10:21:22



Site LAB Polarization: **Vertical** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F2Q120V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	45.5948	5.34	12.10	17.44	40.00	-22.56	QP		
2		91.3346	4.77	9.68	14.45	40.00	-25.55	QP		
3		176.0370	4.22	10.90	15.12	40.00	-24.88	QP		

*:Maximum data x:Over limit !:over margin

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Radiated Emission Measurement

File :B220419001 Data :#2 Date: 2022/05/23 Time: 10:23:40



Site LAB Polarization: **Horizontal** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F2Q120V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	46.0567	3.69	14.60	18.29	40.00	-21.71	QP		
2		103.6237	2.62	11.14	13.76	40.00	-26.24	QP		
3		159.9947	5.13	9.88	15.01	40.00	-24.99	QP		

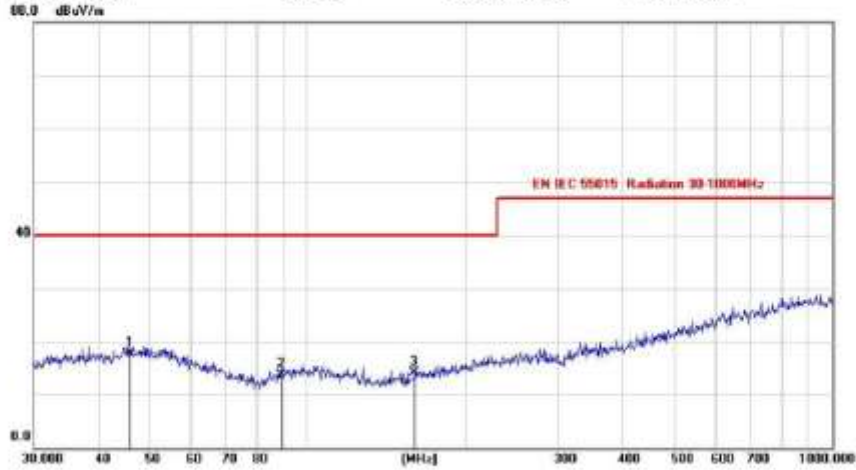
*:Maximum data x:Over limit !:over margin (Reference Only)



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Radiated Emission Measurement

File :B220419001 Data :#3 Date: 2022/05/23 Time: 10:26:16



Site: LAB Polarization: **Horizontal** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F7Q240V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	46.0164	3.06	14.60	17.66	40.00	-22.34	QP		
2		89.1591	2.70	10.93	13.63	40.00	-26.37	QP		
3		159.9947	4.26	9.88	14.14	40.00	-25.86	QP		

*:Maximum data x:Over limit !:over margin (Reference Only)



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Radiated Emission Measurement

File :B220419001 Data :#4 Date: 2022/05/23 Time: 10:29:05



Site LAB Polarization: **Vertical** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F7Q240V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	54.1659	5.43	12.48	17.91	40.00	-22.09	QP		
2		99.8340	3.60	10.69	14.29	40.00	-25.71	QP		
3		208.0324	7.60	9.73	17.33	40.00	-22.67	QP		

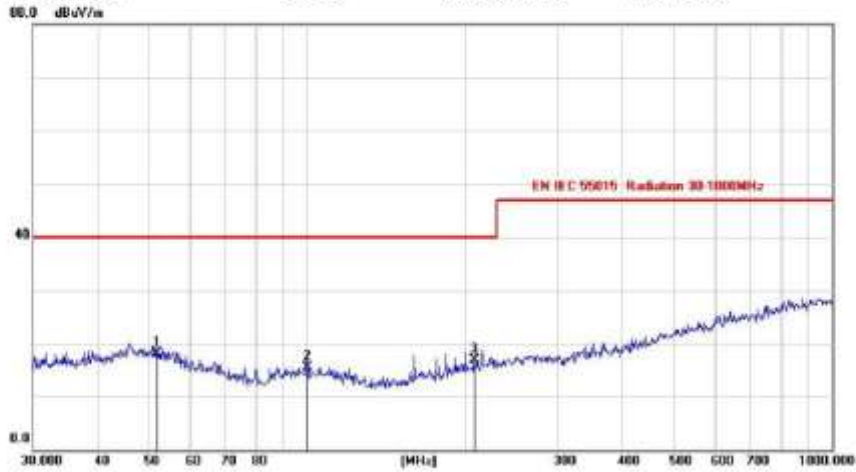
*:Maximum data x:Over limit !:over margin (Reference Only)



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Radiated Emission Measurement

File :B220419001 Data :#5 Date: 2022/05/23 Time: 10:33:07



Site LAB Polarization: **Vertical** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F6Q60V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	51.6842	5.83	12.25	18.08	40.00	-21.92	QP		
2		100.1407	4.80	10.71	15.51	40.00	-24.49	QP		
3		208.0324	7.24	9.73	16.97	40.00	-23.03	QP		

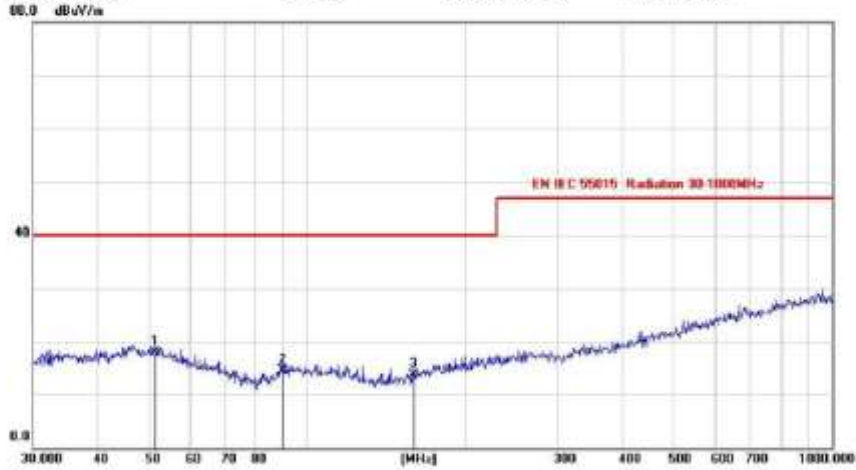
*:Maximum data x:Over limit !:over margin (Reference Only)



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Radiated Emission Measurement

File :B220419001 Data :#6 Date: 2022/05/23 Time: 10:35:16



Site LAB Polarization: **Horizontal** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F6Q60V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	51.4130	3.74	14.18	17.92	40.00	-22.08	QP		
2		89.8653	3.47	11.06	14.53	40.00	-25.47	QP		
3		159.9947	3.86	9.88	13.74	40.00	-26.26	QP		

*:Maximum data x:Over limit !:over margin

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Radiated Emission Measurement

File :B220419001 Data :#7 Date: 2022/05/23 Time: 10:42:42



Site: LAB Polarization: **Horizontal** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F3Q120V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	46.0769	2.77	14.60	17.37	40.00	-22.63	QP		
2		99.9653	2.17	11.33	13.50	40.00	-26.50	QP		
3		263.4723	3.54	13.08	16.62	47.00	-30.38	QP		

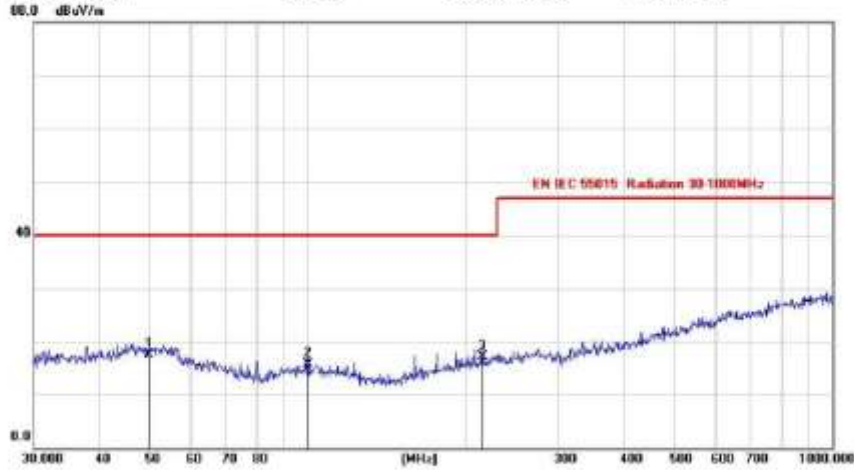
*:Maximum data x:Over limit !:over margin (Reference Only)



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Radiated Emission Measurement

File :B220419001 Data :#8 Date: 2022/05/23 Time: 10:44:51



Site: LAB Polarization: **Vertical** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F3Q120V24C7-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	50.0347	5.43	12.10	17.53	40.00	-22.47	QP		
2		100.1847	4.92	10.71	15.63	40.00	-24.37	QP		
3		216.0240	7.47	9.58	17.05	40.00	-22.95	QP		

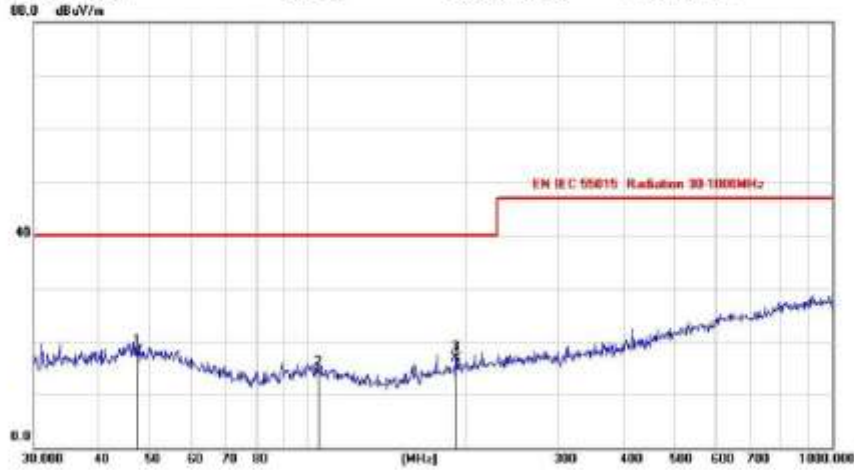
*:Maximum data x:Over limit !:over margin (Reference Only)



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Radiated Emission Measurement

File :B220419001 Data :#9 Date: 2022/05/23 Time: 10:51:13



Site: LAB Polarization: **Vertical** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F5Q60V24C8-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	47.4709	5.91	12.10	18.01	40.00	-21.99	QP		
2		104.8573	3.29	10.75	14.04	40.00	-25.96	QP		
3		191.9973	6.78	10.05	16.83	40.00	-23.17	QP		

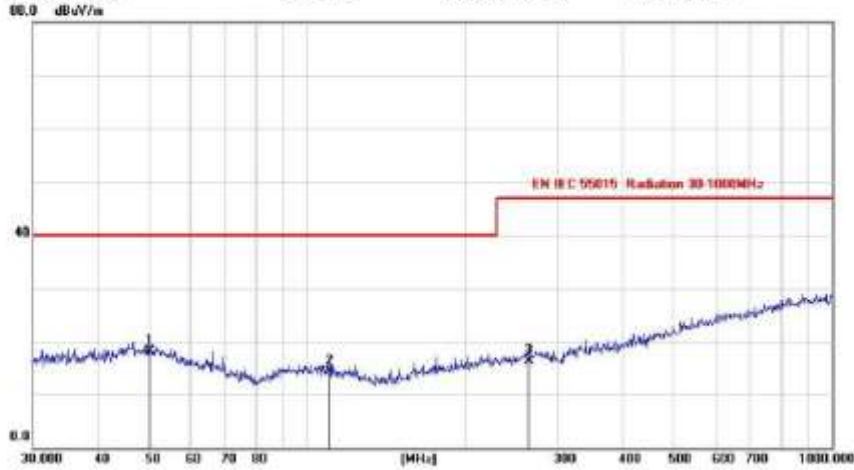
*:Maximum data x:Over limit !:over margin (Reference Only)



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Radiated Emission Measurement

File :B220419001 Data :#10 Date: 2022/05/23 Time: 10:53:49



Site LAB Polarization: **Horizontal** Temperature: 22.6
Limit: EN IEC 55015 Radiation 30-1000MHz Power: DC24V Humidity: 51 %
EUT: Flexible led strip Distance: 3m
M/N: MT-F5Q60V24C8-W2
Mode: Lighting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	50.1445	3.57	14.46	18.03	40.00	-21.97	QP		
2		110.5687	3.51	10.79	14.30	40.00	-25.70	QP		
3		265.2102	3.22	13.13	16.35	47.00	-30.65	QP		

*:Maximum data x:Over limit !:over margin

(Reference Only)

Measurement Uncertainties

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Table 1: Measurement Uncertainty levels

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 1.40 dB ± 2.80 dB	± 4.0 dB ± 3.6 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.46 dB	N/A
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.12 dB	N/A
Radiated Emission	Level accuracy (30MHz to 200MHz)	± 4.66 dB	± 5.2 dB
Radiated Emission	Level accuracy (200MHz to 1000MHz)	± 4.64 dB	± 5.0 dB
Main Harmonic	Voltage	0.640%	N/A
Voltage Fluctuations & Flicker	Voltage	0.530%	N/A

If U_{lab} is less than or equal to U_{cispr} according to CISPR 16-4-2:2011,

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} according to CISPR 16-4-2:2011,

- compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.