

TEST REPORT

Product Name : Wi-Fi Plug

Brand Mark : Globe

Model No. : DR-G2186

Extension model : 50157*

FCC ID : 2AQUQGE50157A

Report Number : BLA-EMC-202205-A2402

Date of Sample Receipt : 2022/5/11

Date of Test : 2022/5/11 to 2022/5/31

Date of Issue : 2022/5/31

Test Standard : 47 CFR Part 15, Subpart C 15.247

Test Result : Pass

Jozu Blue Thong

Prepared for:

Globe Electric Company Inc. 150 Oneida, Montreal, Quebec, Canada, H9R 1A8

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China

TEL: +86-755-23059481

Compiled by:

Approved by:

Review by:

Date:







Page 2 of 107

REPORT REVISE RECORD

Version No. Date		Description
00	2022/5/31	Original





TABLE OF CONTENTS

1	T	EST SUMMARY	5
2	G	GENERAL INFORMATION	6
3	G	SENERAL DESCRIPTION OF E.U.T	6
4	т	EST ENVIRONMENT	7
5		TEST MODE	
6	N	MEASUREMENT UNCERTAINTY	7
7		DESCRIPTION OF SUPPORT UNIT	
8	L	ABORATORY LOCATION	8
9	Т	TEST INSTRUMENTS LIST	g
		ANTENNA REQUIREMENT	
10) A	CONCLUSION	
	10.1		
11	P	POWER SPECTRUM DENSITY	13
	11.1	LIMITS	13
	11.2		
	11.3	TEST DATA	13
12	2 F	RADIATED SPURIOUS EMISSIONS	14
	12.1	LIMITS	14
	12.2		
	12.3	B PROCEDURE	15
	12.4	TEST DATA	17
13	F	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	25
	13.1	LIMITS	25
	13.2		
	13.3	B PROCEDURE	26
	13.4	TEST DATA	28
14	. c	CONDUCTED SPURIOUS EMISSIONS	44
	14.1	L LIMITS	11
	14.1		
	14.3		



Page 4 of 107

15	C	ONDUCTED BAND EDGES MEASUREMENT	46
1!	5.1	LIMITS	46
1!	5.2	BLOCK DIAGRAM OF TEST SETUP	46
1	5.3	TEST Data	47
16	M	INIMUM 6DB BANDWIDTH	48
10	6.1	LIMITS	48
10	6.2	BLOCK DIAGRAM OF TEST SETUP	48
10	6.3	TEST DATA	48
17	С	ONDUCTED PEAK OUTPUT POWER	49
1	7.1	LIMITS	
1	7.2	BLOCK DIAGRAM OF TEST SETUP	
1	7.3	TEST DATA	50
18	C	ONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)	51
18	8.1	LIMITS	5
18	8.2	BLOCK DIAGRAM OF TEST SETUP	51
18	8.3	PROCEDURE	51
18	8.4	TEST DATA	53
19	Α	PPENDIX	5
APP	PΕΝ	IDIX A: PHOTOGRAPHS OF TEST SETUP	10
ΔΡΡ	F	IDIX B. PHOTOGRAPHS OF FUT	107



Page 5 of 107

1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(1) & 15.247(b)(3)	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass



Page 6 of 107

2 GENERAL INFORMATION

Applicant	Globe Electric Company Inc.
Address	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Manufacturer	NINGBO DIYA ELECTRIC APPLIANCE CO., LTD.
Address	SIMEN TOWN YUYAO CITY ZHEJIANG CHINA
Factory	NINGBO DIYA ELECTRIC APPLIANCE CO., LTD.
Address	SIMEN TOWN YUYAO CITY ZHEJIANG CHINA
Product Name	Wi-Fi Plug
Test Model No.	DR-G2186
Extension model	50157*
Note	All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose.

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A		
Software Version	N/A		
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz		
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Channel Spacing:	5MHz		
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7		
Antenna Type:	PCB Antenna		
Antenna Gain:	1.5dBi(Provided by the applicant)		



Page 7 of 107

4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25℃	DC3.3V

5 TEST MODE

	TEST MODE	TEST MODE DESCRIPTION			
Transmitting Keep the EUT in continuously transmitting mode with modulation. (The duty cy		Keep the EUT in continuously transmitting mode with modulation. (The duty cycle is			
	mode	greater than 98%)			
	Remark: Full battery is used during all test except ac conducted emission, 802.11b/g/n(HT20) and				
	802.11n(HT40) all have been tested, During the radiated spurious emission test,				
	802.11b/11g/11nH20/11nH40 modulations all have been tested, only worse case 802.11g is reported.				

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)		
Radiated Emission(9kHz-30MHz)	±4.34dB		
Radiated Emission(30Mz-1000MHz)	±4.24dB		
Radiated Emission(1GHz-18GHz)	±4.68dB		
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB		



Page 8 of 107

7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark			
							
Note: "" means no any support device during testing.							

8 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.



Page 9 of 107

9 TEST INSTRUMENTS LIST

Test Equipment Of Power Spectrum Density					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	10/11/2020	9/11/2023
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Receiver	R&S	ESR7	101199	24/9/2021	23/9/2022
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	26/9/2020	25/9/2022
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	26/9/2020	25/9/2022
Amplifier	SKET	LNPA-0118-45	N/A	24/9/2021	23/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	26/9/2020	25/9/2022

Test Equipment Of Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer Model S/N Cal.Date Cal.Due				
Chamber	SKET	966	N/A	10/11/2020	9/11/2023
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022



Page 10 of 107

Receiver	R&S	ESR7	101199	24/9/2021	23/9/2022
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	26/9/2020	25/9/2022
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	26/9/2020	25/9/2022
Amplifier	SKET	LNPA-0118-45	N/A	24/9/2021	23/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	26/9/2020	25/9/2022

Test Equipment Of Conducted Spurious Emissions					
Equipment	quipment Manufacturer Model S/N Cal.Date Cal.D				Cal.Due
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Conducted Band Edges Measurement					
Equipment	Manufacturer	Manufacturer Model S/N Cal.Date Cal.Du			
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Minimum 6dB Bandwidth					
Equipment Manufacturer Model S/N Cal.Date Cal.Due					Cal.Due
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022



Page 11 of 107

Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Conducted Peak Output Power					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	25/11/2020	24/11/2023
Receiver	R&S	ESPI3	101082	24/9/2021	23/9/2022
LISN	R&S	ENV216	3560.6550.15	24/9/2021	23/9/2022
LISN	AT	AT166-2	AKK1806000003	26/9/2021	25/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A



Page 12 of 107

10 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

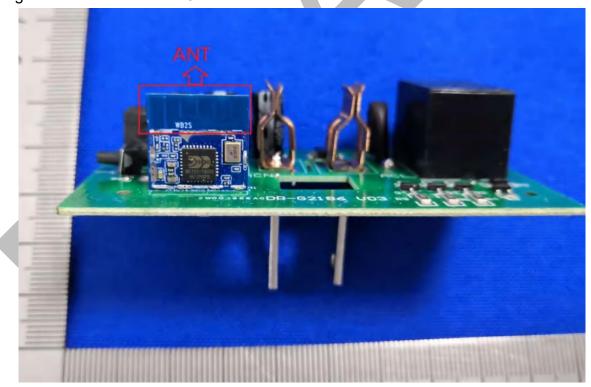
10.1 CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.





Page 13 of 107

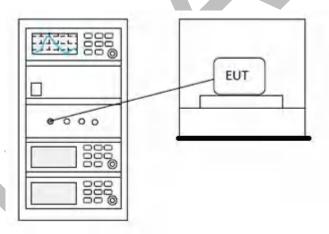
11 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

11.1 LIMITS

Limit: | ≤8dBm in any 3 kHz band during any time interval of continuous transmission

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details



Page 14 of 107

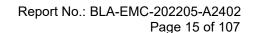
12 RADIATED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

12.1 LIMITS

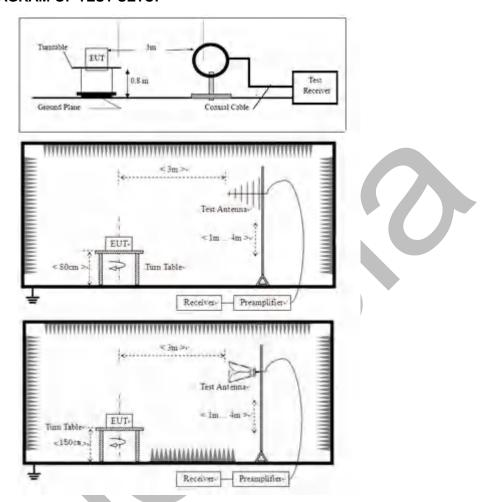
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.





12.2 BLOCK DIAGRAM OF TEST SETUP



12.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



Page 16 of 107

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

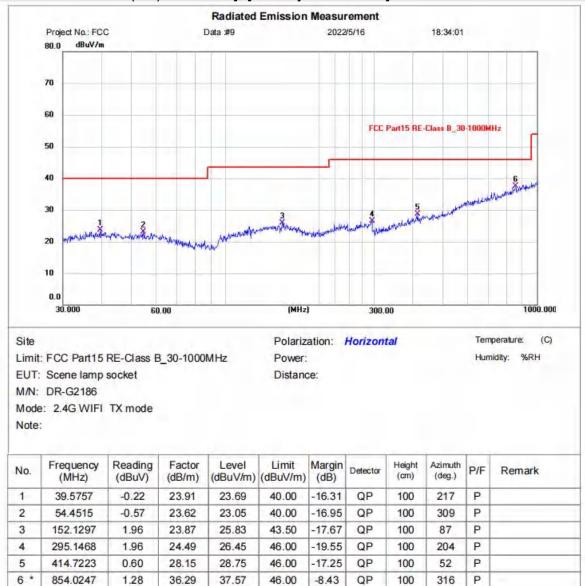
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



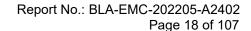


12.4 TEST DATA

[TestMode: TX mode (SE) below 1G]; [Polarity: Horizontal]

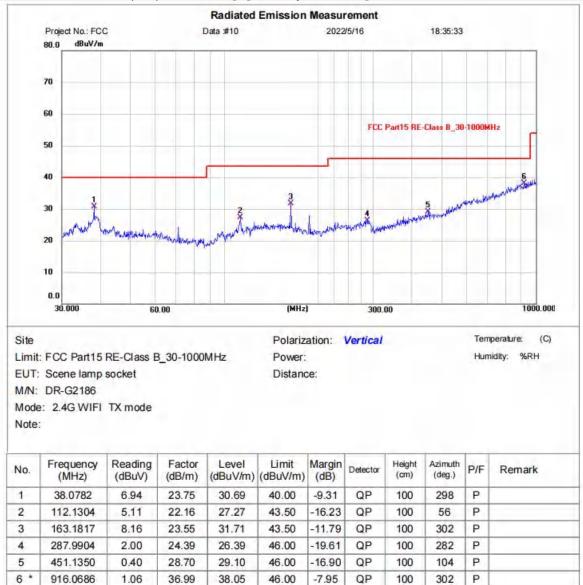


*:Maximum data x:Over limit !:over margin





[TestMode: TX mode (SE) below 1G]; [Polarity: Vertical]



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



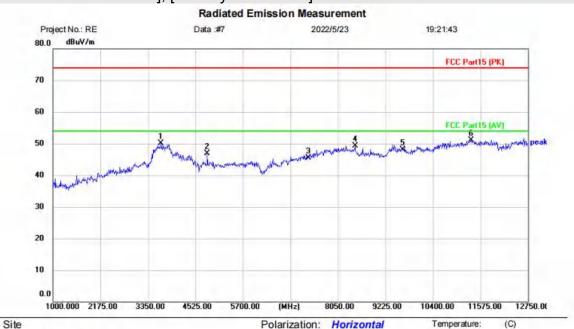
Humidity:

%RH

Page 19 of 107

Remark: During the test, pre-scan the 802.11b/g/n mode, and found the 802.11b mode which it is worse case.

[TestMode: TX low channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket

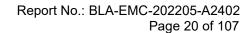
M/N: DR-G2186 Mode: 11B TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3667.250	42.36	7.75	50.11	74.00	-23.89	peak	
2		4818.750	43.16	3.65	46.81	74.00	-27.19	peak	
3		7326.000	39.12	6.44	45.56	74.00	-28.44	peak	
4		8473.000	41.12	8.17	49.29	74.00	-24.71	peak	
5		9648.000	38.68	9.37	48.05	74.00	-25.95	peak	
6	* .	11340.000	39.24	11.85	51.09	74.00	-22.91	peak	

Power:

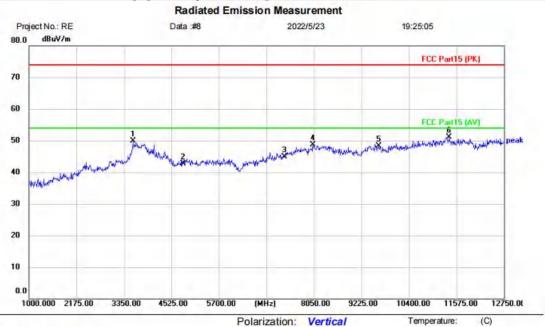
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX low channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket

M/N: DR-G2186 Mode: 11B TX-L

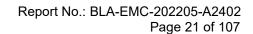
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3573.250	43.01	6.90	49.91	74.00	-24.09	peak	
2		4824.000	39.05	3.62	42.67	74.00	-31.33	peak	
3		7326.000	38.49	6.44	44.93	74.00	-29.07	peak	
4		8026.500	40.64	7.98	48.62	74.00	-25.38	peak	
5		9648.000	39.03	9.37	48.40	74.00	-25.60	peak	
6	*	11398.750	39.27	11.76	51.03	74.00	-22.97	peak	

Power:

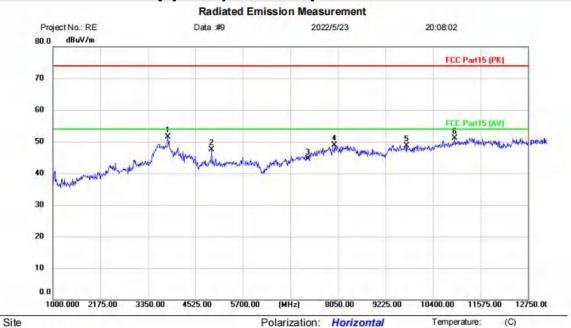
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX mid channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket

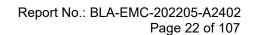
M/N: DR-G2186 Mode: 11B TX-M

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	3843.500	44.37	7.12	51.49	74.00	-22.51	peak	
2		4924.500	44.05	3.47	47.52	74.00	-26.48	peak	
3		7311.000	38.11	6.37	44.48	74.00	-29.52	peak	
4		7967.750	40.94	7.90	48.84	74.00	-25.16	peak	
5		9748.000	39.20	9.59	48.79	74.00	-25.21	peak	
6	-	10940.500	39.27	11.93	51.20	74.00	-22.80	peak	

Power:

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



Temperature:

Humidity:

(C)

%RH



[TestMode: TX mid channel]; [Polarity: Vertical]

Radiated Emission Measurement Project No.: RE Data :#10 2022/5/23 20:12:43 dBuV/m 80.0 FCC Part15 (PK) 70 60 50 30 20 10 0.0 12750.00 1000.000 2175.00 3350.00 4525.00 5700.00 9225.00 10400.00 11575.00

Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

Mode: 11B TX-M

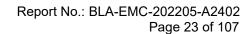
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3538.000	45.12	5.71	50.83	74.00	-23.17	peak	
2		4924.500	42.35	3.47	45.82	74.00	-28.18	peak	
3		7311.000	38.85	6.37	45.22	74.00	-28.78	peak	
4		7826.750	41.22	7.73	48.95	74.00	-25.05	peak	
5		9748.000	38.55	9.59	48.14	74.00	-25.86	peak	
6	*	11316.500	39.65	11.88	51.53	74.00	-22.47	peak	

Power:

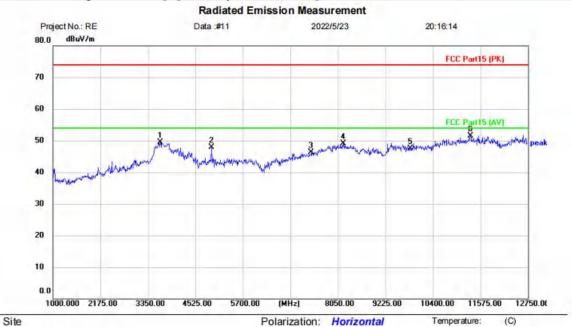
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX high channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket

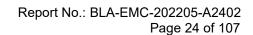
M/N: DR-G2186 Mode: 11B TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3655.500	41.70	7.76	49.46	74.00	-24.54	peak	
2		4924.500	44.51	3.47	47.98	74.00	-26.02	peak	
3		7386.000	39.60	6.68	46.28	74.00	-27.72	peak	
4		8179.250	40.85	8.18	49.03	74.00	-24.97	peak	
5		9848.000	37.71	9.88	47.59	74.00	-26.41	peak	
6	*	11328.250	39.68	11.86	51.54	74.00	-22.46	peak	

Power:

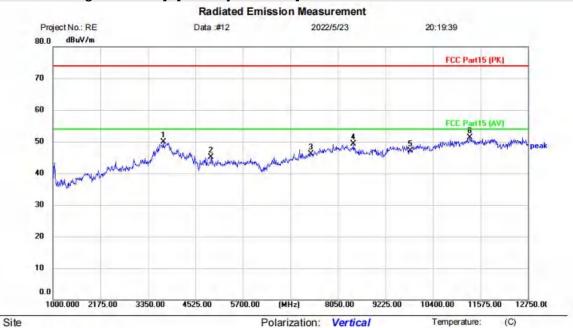
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX high channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket

M/N: DR-G2186 Mode: 11B TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		3726.000	42.12	7.70	49.82	74.00	-24.18	peak	
2		4924.000	41.70	3.46	45.16	74.00	-28.84	peak	
3		7386.000	39.33	6.68	46.01	74.00	-27.99	peak	
4		8437.750	41.03	8.22	49.25	74.00	-24.75	peak	
5		9848.000	37.22	9.88	47.10	74.00	-26.90	peak	
6	*	11316.500	39.51	11.88	51.39	74.00	-22.61	peak	

Power:

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



Page 25 of 107

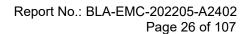
13 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

13.1 LIMITS

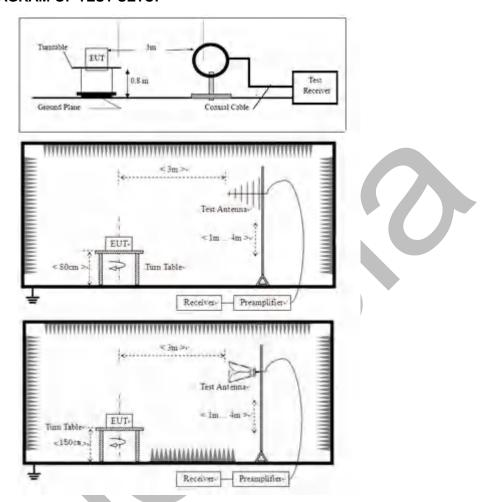
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.





13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



Page 27 of 107

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

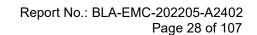
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



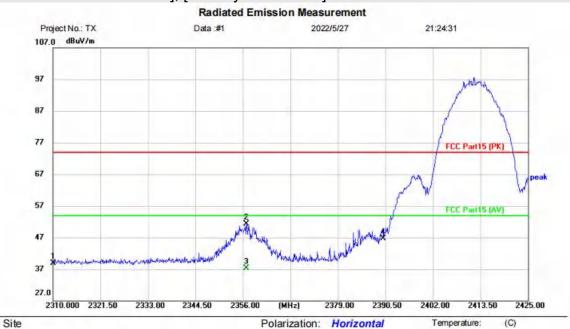


%RH



13.4 TEST DATA

[TestMode: TX b low channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK) EUT: Scene lamp socket

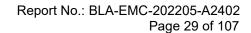
M/N: DR-G2186 Mode: 11B TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	42.79	-3.93	38.86	74.00	-35.14	peak		
2		2356.805	55.03	-3.72	51.31	74.00	-22.69	peak		
3	*	2356.805	40.94	-3.72	37.22	54.00	-16.78	AVG		
4		2390.000	50.32	-3.58	46.74	74.00	-27.26	peak		

Power:

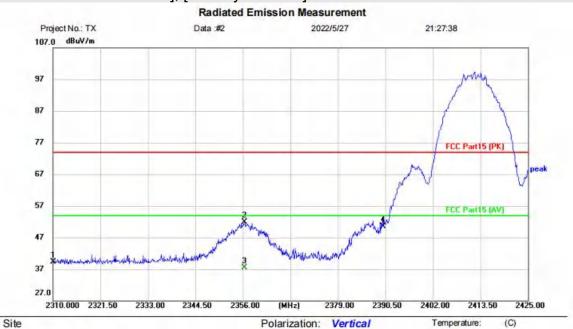
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX b low channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

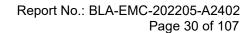
Mode: 11B TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.19	-3.93	39.26	74.00	-34.74	peak		
2		2356.345	55.56	-3.73	51.83	74.00	-22.17	peak		
3	*	2356.345	41.14	-3.73	37.41	54.00	-16.59	AVG		
4		2390.000	53.99	-3.58	50.41	74.00	-23.59	peak		

Power:

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



Temperature:

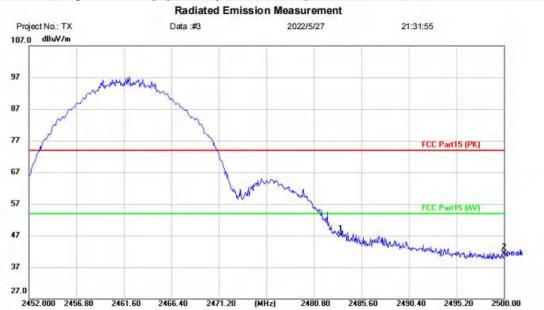
Humidity:

(C)

%RH



[TestMode: TX b high channel]; [Polarity: Horizontal]



Polarization: Horizontal

Limit: FCC Part15 (PK)

EUT: Scene lamp socket

M/N: DR-G2186 Mode: 11B TX-H

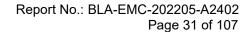
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	50.23	-3.14	47.09	74.00	-26.91	peak		
2		2500.000	44.44	-3.08	41.36	74.00	-32.64	peak		

Power:

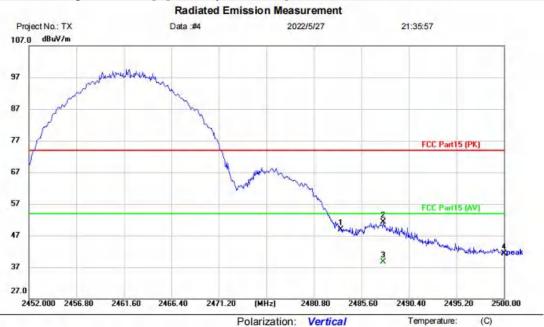
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX b high channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

Mode: 11B TX-H

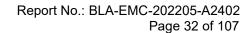
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2483.500	52.12	-3.14	48.98	74.00	-25.02	peak		
2		2487.808	54.42	-3.14	51.28	74.00	-22.72	peak		
3	*	2487.808	41.74	-3.14	38.60	54.00	-15.40	AVG		
4		2500.000	44.48	-3.08	41.40	74.00	-32.60	peak		

Power:

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



Temperature:

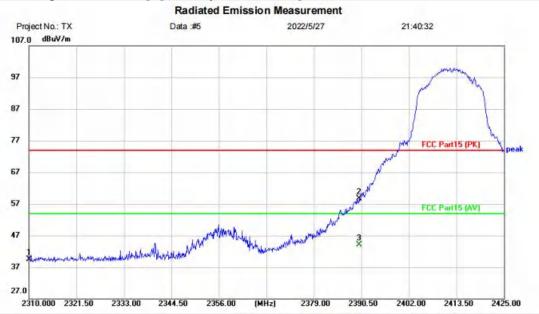
Humidity:

(C)

%RH



[TestMode: TX g low channel]; [Polarity: Horizontal]



Polarization: Horizontal

Limit: FCC Part15 (PK)

EUT: Scene lamp socket

M/N: DR-G2186 Mode: 11G TX-L

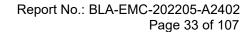
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.48	-3.93	39.55	74.00	-34.45	peak		
2		2390.000	62.29	-3.58	58.71	74.00	-15.29	peak		
3	*	2390.000	47.59	-3.58	44.01	54.00	-9.99	AVG		

Power:

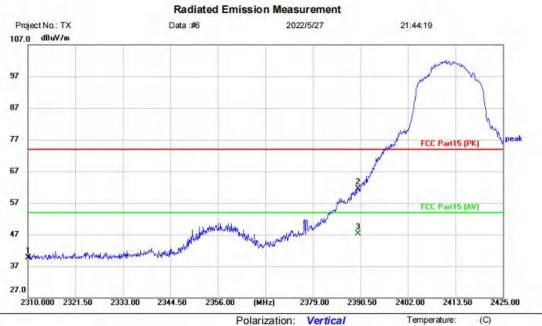
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX g low channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket

M/N: DR-G2186 Mode: 11G TX-L

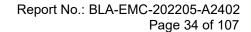
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.53	-3.93	39.60	74.00	-34.40	peak		
2		2390.000	65.04	-3.58	61.46	74.00	-12.54	peak		
3	*	2390.000	50.88	-3.58	47.30	54.00	-6.70	AVG		

Power:

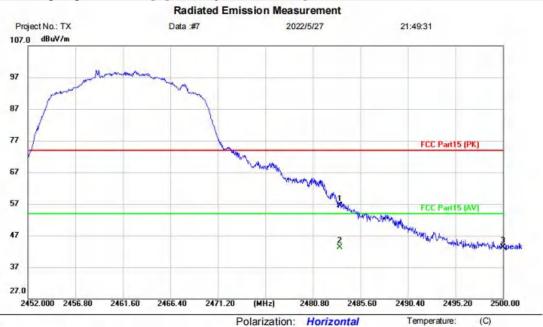
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX g high channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

Mode: 11G TX-H

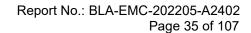
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2483.500	59.70	-3.14	56.56	74.00	-17.44	peak		
2	*	2483.500	46.47	-3.14	43.33	54.00	-10.67	AVG		
3		2500.000	46.46	-3.08	43.38	74.00	-30.62	peak		

Power:

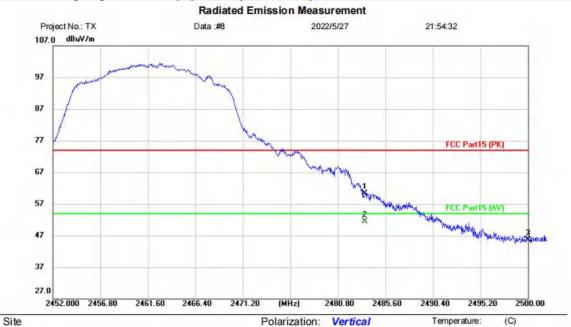
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX g high channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket

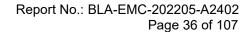
M/N: DR-G2186 Mode: 11G TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2483.500	63.41	-3.14	60.27	74.00	-13.73	peak		
2	*	2483.500	54.70	-3.14	51.56	54.00	-2.44	AVG		
3		2500.000	48.88	-3.08	45.80	74.00	-28.20	peak		

Power:

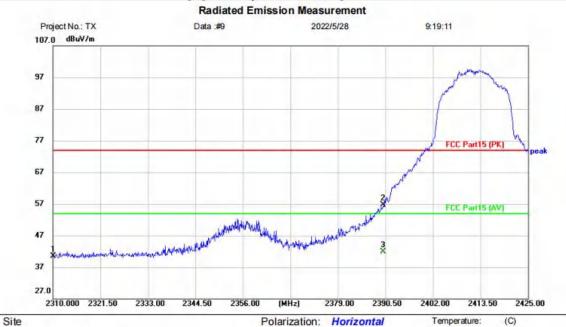
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX n20 low channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

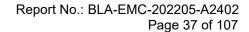
Mode: 11N20 TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	44.37	-3.93	40.44	74.00	-33.56	peak		
2		2390.000	60.35	-3.58	56.77	74.00	-17.23	peak		
3	*	2390.000	45.58	-3.58	42.00	54.00	-12.00	AVG		

Power:

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



Temperature:

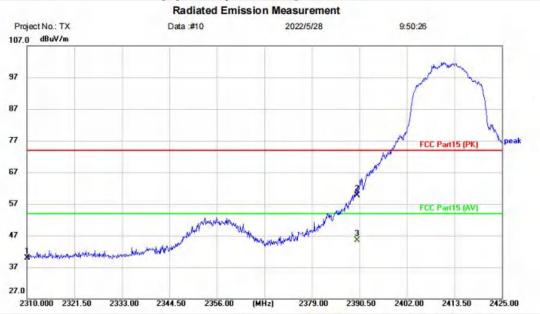
Humidity:

(C)

%RH



[TestMode: TX n20 low channel]; [Polarity: Vertical]



Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186 Mode: 11N20 TX-L

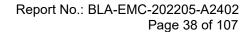
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.92	-3.93	39.99	74.00	-34.01	peak		
2		2390.000	63.20	-3.58	59.62	74.00	-14.38	peak		
3	*	2390.000	49.05	-3.58	45.47	54.00	-8.53	AVG		

Power:

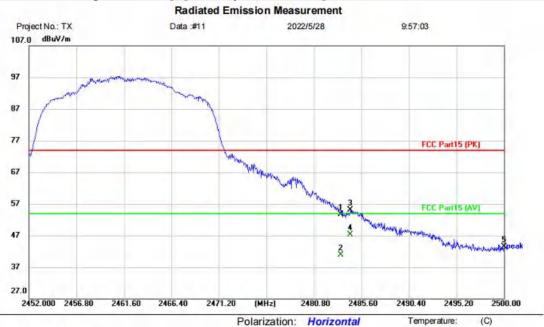
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX n20 high channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

Mode: 11N20 TX-H

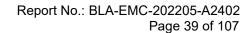
Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	56.84	-3.14	53.70	74.00	-20.30	peak	
2		2483.500	43.97	-3.14	40.83	54.00	-13.17	AVG	
3		2484.496	58.18	-3.14	55.04	74.00	-18.96	peak	
4	*	2484.496	50.44	-3.14	47.30	54.00	-6.70	AVG	
5		2500.000	46.61	-3.08	43.53	74.00	-30.47	peak	

Power:

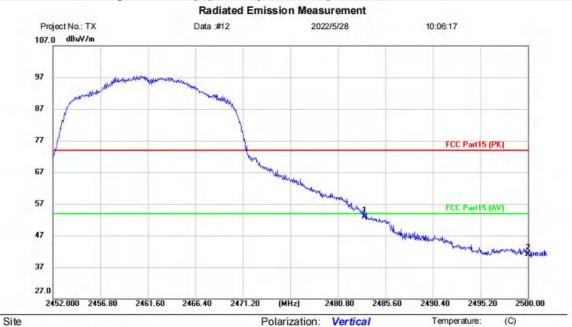
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX n20 high channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

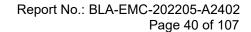
Mode: 11N20 TX-H

Note:

No. M	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	lz dBuV	V dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	55.98	-3.14	52.84	74.00	-21.16	peak		
2		2500.000	44.17	-3.08	41.09	74.00	-32.91	peak		

Power:

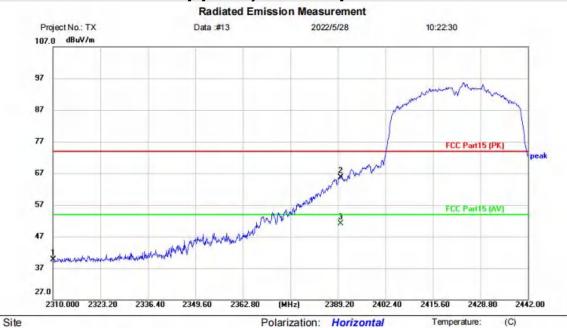
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX n40 low channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

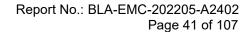
EUT: Scene lamp socket M/N: DR-G2186 Mode: 11N40 TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.61	-3.93	39.68	74.00	-34.32	peak		
2		2390.000	69.31	-3.58	65.73	74.00	-8.27	peak		
3	*	2390.000	54.60	-3.58	51.02	54.00	-2.98	AVG		

Power:

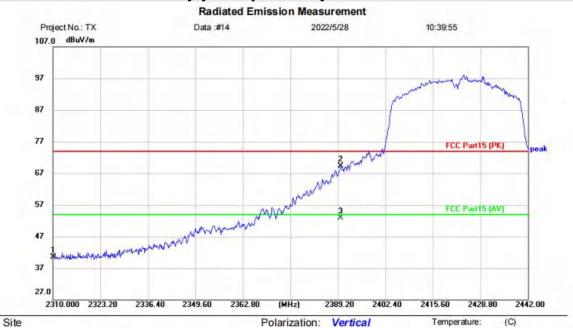
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX n40 low channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

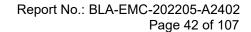
EUT: Scene lamp socket M/N: DR-G2186 Mode: 11N40 TX-L

Note:

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	44.46	-3.93	40.53	74.00	-33.47	peak		
2		2390.000	72.84	-3.58	69.26	74.00	-4.74	peak		
3	*	2390.000	56.57	-3.58	52.99	54.00	-1.01	AVG		

Power:

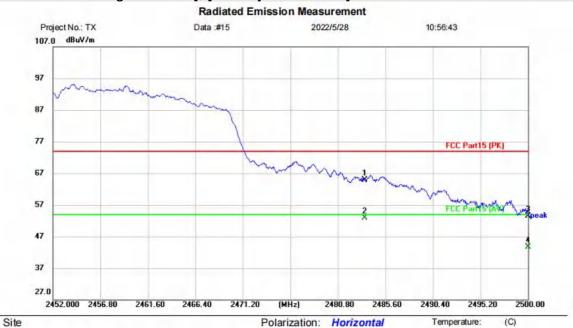
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX n40 high channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

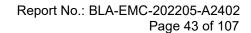
Note:

EUT: Scene lamp socket M/N: DR-G2186 Mode: 11N40 TX-H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2483.500	68.09	-3.14	64.95	74.00	-9.05	peak		
2	*	2483.500	56.13	-3.14	52.99	54.00	-1.01	AVG		
3		2500.000	56.64	-3.08	53.56	74.00	-20.44	peak		
4		2500.000	46.88	-3.08	43.80	54.00	-10.20	AVG		

Power:

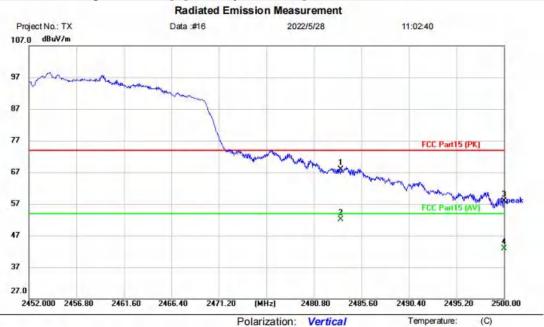
*:Maximum data x:Over limit !:over margin (Reference Only



%RH



[TestMode: TX n40 high channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Scene lamp socket M/N: DR-G2186

Mode: 11N40 TX-H

Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2483.500	71.12	-3.14	67.98	74.00	-6.02	peak		
2	*	2483.500	55.20	-3.14	52.06	54.00	-1.94	AVG		
3		2500.000	61.02	-3.08	57.94	74.00	-16.06	peak		
4		2500.000	45.92	-3.08	42.84	54.00	-11.16	AVG		

Power:

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



Page 44 of 107

14 CONDUCTED SPURIOUS EMISSIONS

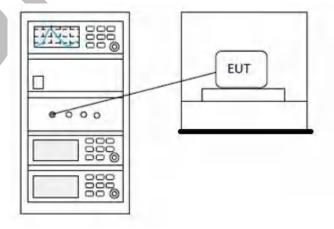
Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

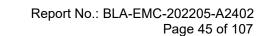
14.1 LIMITS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

14.2 BLOCK DIAGRAM OF TEST SETUP







14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





Page 46 of 107

15 CONDUCTED BAND EDGES MEASUREMENT

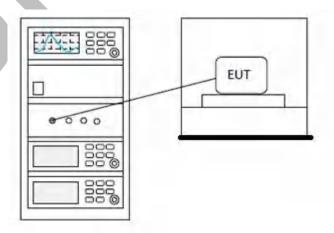
Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

15.1 LIMITS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

15.2 BLOCK DIAGRAM OF TEST SETUP





Page 47 of 107

15.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details





Page 48 of 107

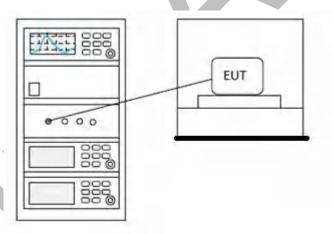
16 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

16.1 LIMITS

Limit: ≥500 kHz

16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details



Page 49 of 107

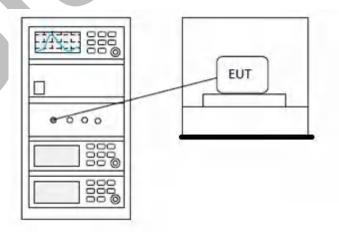
17 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

17.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
	1 for frequency hopping systems and digital
5725-5850	modulation

17.2 BLOCK DIAGRAM OF TEST SETUP



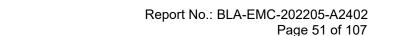


Page 50 of 107

17.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details







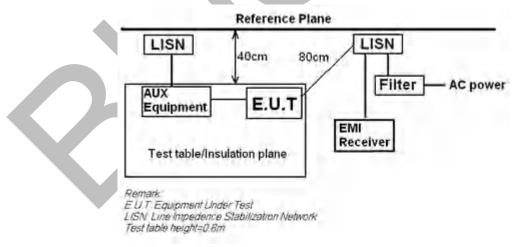
18 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

Test Standard	47 CFR Part 15, Subpart C 15.247						
Test Method	ANSI C63.10 (2013) Section 6.2						
Test Mode (Pre-Scan)	TX						
Test Mode (Final Test)	TX						
Tester	Jozu						
Temperature	25℃						
Humidity	60%						

18.1 LIMITS

Frequency of	Conducted limit(dBµV)					
emission(MHz)	Quasi-pea	ık	Average			
0.15-0.5	66 to 56*		56 to 46*			
0.5-5	56		46			
5-30	60		50			
*Decreases with the logarithm	of the frequency.					

18.2 BLOCK DIAGRAM OF TEST SETUP



18.3 PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.



Page 52 of 107

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

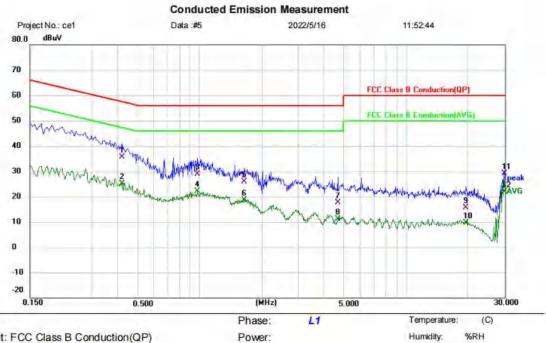
Remark: LISN=Read Level+ Cable Loss+ LISN Factor





18.4 TEST DATA

[TestMode: Transmitting mode]; [Line: Line] ;[Power:AC120V/60Hz]



Limit: FCC Class B Conduction(QP)

EUT: Scene lamp socket M/N: DR-G2186

Mode: 2.4G WIFI mode

Note:

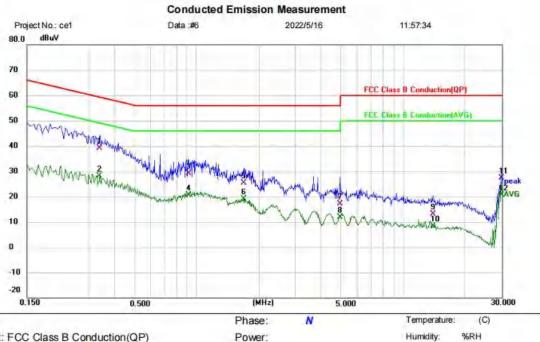
Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4180	25.71	9.85	35.56	57.49	-21.93	QP	
2		0.4180	15.35	9.85	25.20	47.49	-22.29	AVG	
3		0.9700	18.96	9.92	28.88	56.00	-27.12	QP	
4		0.9700	12.09	9.92	22.01	46.00	-23.99	AVG	
5		1.6420	16.01	9.93	25.94	56.00	-30.06	QP	
6		1.6420	8.73	9.93	18.66	46.00	-27.34	AVG	
7		4.6660	7.73	9.98	17.71	56.00	-38.29	QP	
8		4.6660	1.21	9.98	11.19	46.00	-34.81	AVG	
9		19.4580	5.32	10.42	15.74	60.00	-44.26	QP	
10		19.4580	-0.90	10.42	9.52	50.00	-40.48	AVG	
11		29.9700	18.51	10.50	29.01	60.00	-30.99	QP	
12		29.9700	11.46	10.50	21.96	50.00	-28.04	AVG	

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



[TestMode: Transmitting mode]; [Line: Neutral]; [Power:AC120V/60Hz]



Limit: FCC Class B Conduction(QP)

EUT: Scene lamp socket M/N: DR-G2186

Mode: 2.4G WIFI mode

Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.3379	29.39	9.77	39.16	59.25	-20.09	QP	
2		0.3379	18.41	9.77	28.18	49.25	-21.07	AVG	
3		0.9180	19.24	9.83	29.07	56.00	-26.93	QP	
4		0.9180	10.83	9.83	20.66	46.00	-25.34	AVG	
5		1.6980	15.50	9.85	25.35	56.00	-30.65	QP	
6		1.6980	9.24	9.85	19.09	46.00	-26.91	AVG	
7		4.9300	7.22	9.95	17.17	56.00	-38.83	QP	
8		4.9300	1.93	9.95	11.88	46.00	-34.12	AVG	
9		13.9420	2.82	10.29	13.11	60.00	-46.89	QP	
10		13.9420	-1.90	10.29	8.39	50.00	-41.61	AVG	
11		29.9700	16.89	10.49	27.38	60.00	-32.62	QP	
12		29.9700	10.10	10.49	20.59	50.00	-29.41	AVG	

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



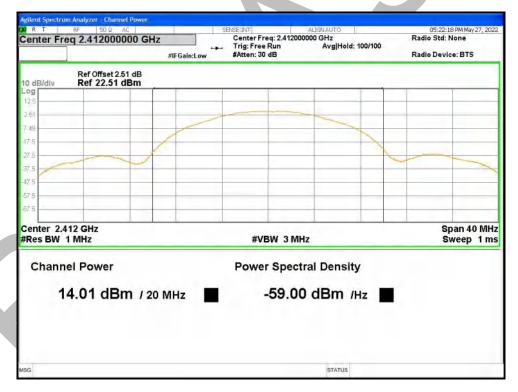
Page 55 of 107

19 APPENDIX

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ь	2412	Ant1	14.015	30	Pass
NVNT	ь	2437	Ant1	14.169	30	Pass
NVNT	ь	2462	Ant1	14.956	30	Pass
NVNT	g	2412	Ant1	17.364	30	Pass
NVNT	g	2437	Ant1	17.696	30	Pass
NVNT	g	2462	Ant1	18.46	30	Pass
NVNT	n20	2412	Ant1	16.187	30	Pass
NVNT	n20	2437	Ant1	16.625	30	Pass
NVNT	n20	2462	Ant1	17.375	30	Pass
NVNT	n40	2422	Ant1	16.629	30	Pass
NVNT	n40	2437	Ant1	16.713	30	Pass
NVNT	n40	2452	Ant1	17.583	30	Pass

Power NVNT b 2412MHz Ant1



Power NVNT b 2437MHz Ant1





Power NVNT b 2462MHz Ant1





Power NVNT g 2412MHz Ant1



Power NVNT g 2437MHz Ant1

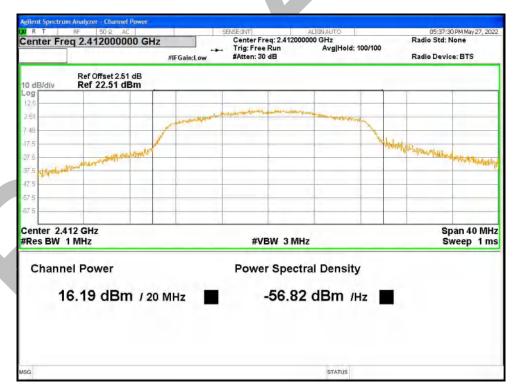


Power NVNT g 2462MHz Ant1



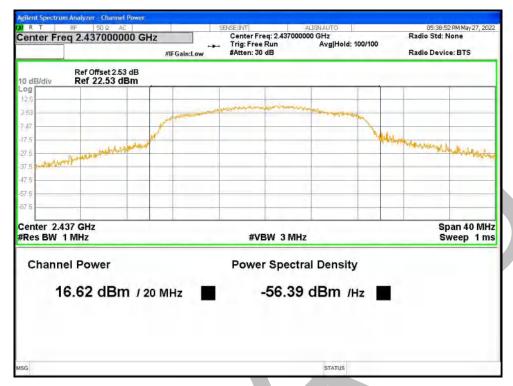


Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



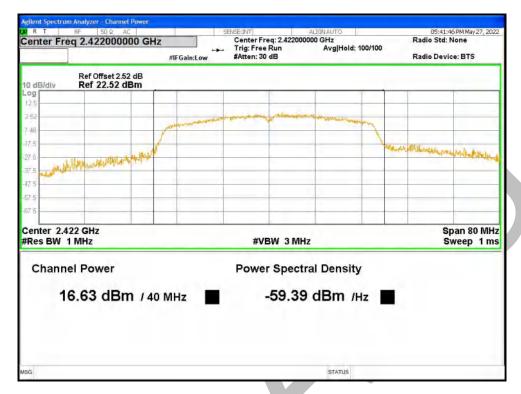


Power NVNT n20 2462MHz Ant1





Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



Power NVNT n40 2452MHz Ant1







-6dB Bandwidth

Condition	Mode	Frequency	Antenna	-6 dB Bandwidth	Limit -6 dB	Verdict
		(MHz)		(MHz)	Bandwidth (MHz)	
NVNT	ь	2412	Ant1	9.528	0.5	Pass
NVNT	ь	2437	Ant1	9.098	0.5	Pass
NVNT	ь	2462	Ant1	9.537	0.5	Pass
NVNT	g	2412	Ant1	11.282	0.5	Pass
NVNT	g	2437	Ant1	11.935	0.5	Pass
NVNT	g	2462	Ant1	9.145	0.5	Pass
NVNT	n20	2412	Ant1	10.005	0.5	Pass
NVNT	n20	2437	Ant1	11.54	0.5	Pass
NVNT	n20	2462	Ant1	12.556	0.5	Pass
NVNT	n40	2422	Ant1	30.038	0.5	Pass
NVNT	n40	2437	Ant1	31.28	0.5	Pass
NVNT	n40	2452	Ant1	28.811	0.5	Pass

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1





-6dB Bandwidth NVNT b 2462MHz Ant1





-6dB Bandwidth NVNT g 2412MHz Ant1



-6dB Bandwidth NVNT g 2437MHz Ant1



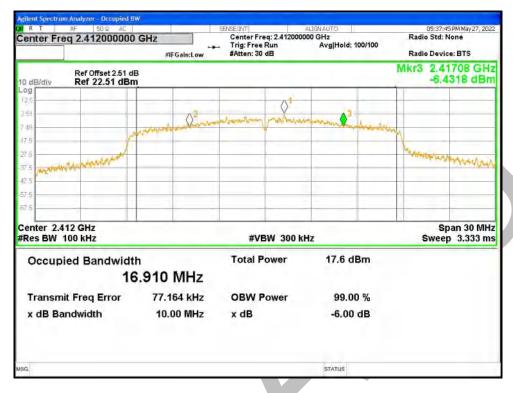
-6dB Bandwidth NVNT g 2462MHz Ant1







-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1



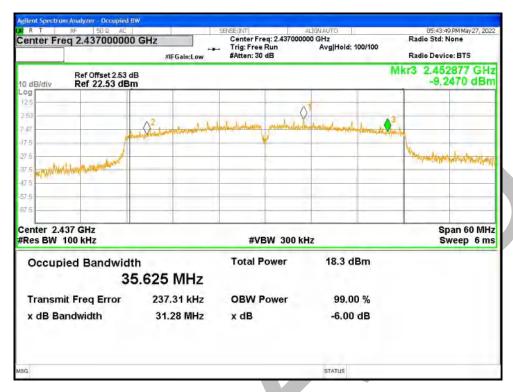


-6dB Bandwidth NVNT n40 2422MHz Ant1





-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ь	2412	Ant1	14.92575327
NVNT	ь	2437	Ant1	14.9928459
NVNT	ь	2462	Ant1	14.93986361
NVNT	g	2412	Ant1	16.09813084
NVNT	g	2437	Ant1	16.1509093
NVNT	g	2462	Ant1	16.37541618
NVNT	n20	2412	Ant1	16.83901931
NVNT	n20	2437	Ant1	16.94075239
NVNT	n20	2462	Ant1	16.98622105
NVNT	n40	2422	Ant1	35.57630066
NVNT	n40	2437	Ant1	35.78879339
NVNT	n40	2452	Ant1	35.83076609

OBW NVNT b 2412MHz Ant1





OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1





OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1





OBW NVNT g 2462MHz Ant1





OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



OBW NVNT n20 2462MHz Ant1





OBW NVNT n40 2422MHz Ant1

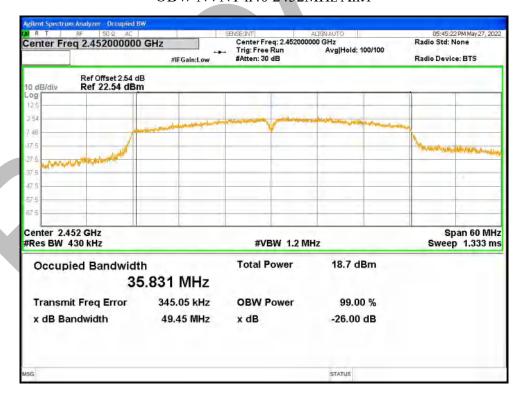


OBW NVNT n40 2437MHz Ant1





OBW NVNT n40 2452MHz Ant1





Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	2.896	8	Pass
NVNT	ь	2437	Ant1	2.963	8	Pass
NVNT	b	2462	Ant1	4.424	8	Pass
NVNT	g	2412	Ant1	3.994	8	Pass
NVNT	g	2437	Ant1	3.302	8	Pass
NVNT	g	2462	Ant1	4.789	8	Pass
NVNT	n20	2412	Ant1	2.387	8	Pass
NVNT	n20	2437	Ant1	1.615	8	Pass
NVNT	n20	2462	Ant1	4.114	8	Pass
NVNT	n40	2422	Ant1	-0.618	8	Pass
NVNT	n40	2437	Ant1	-0.669	8	Pass
NVNT	n40	2452	Ant1	0.008	8	Pass

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1





PSD NVNT b 2462MHz Ant1





PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1





PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1





PSD NVNT n20 2462MHz Ant1

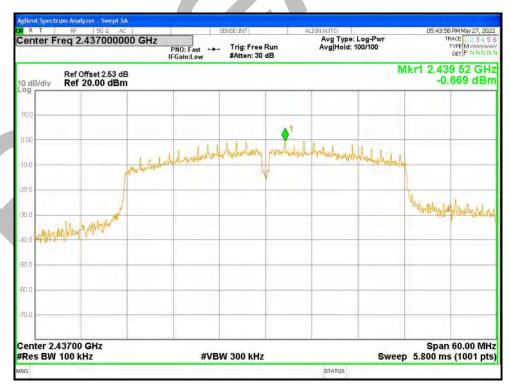




PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1







Band Edge

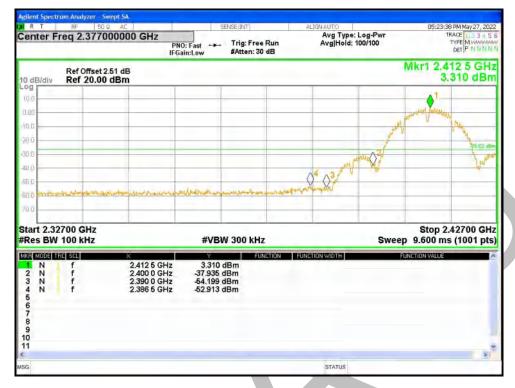
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	Ъ	2412	Ant1	-56.29	-30	Pass
NVNT	ь	2462	Ant1	-54.7	-30	Pass
NVNT	g	2412	Ant1	-51.11	-30	Pass
NVNT	g	2462	Ant1	-38.91	-30	Pass
NVNT	n20	2412	Ant1	-54.1	-30	Pass
NVNT	n20	2462	Ant1	-39.22	-30	Pass
NVNT	n40	2422	Ant1	-38.98	-30	Pass
NVNT	n40	2452	Ant1	-32.1	-30	Pass

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



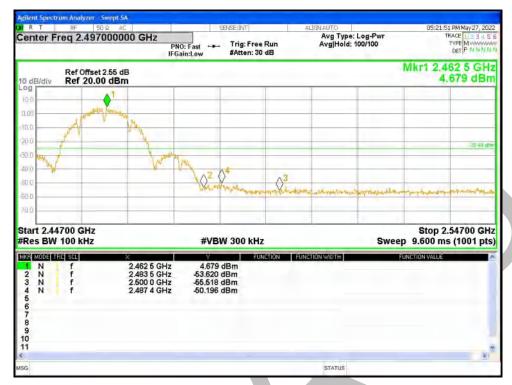


Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



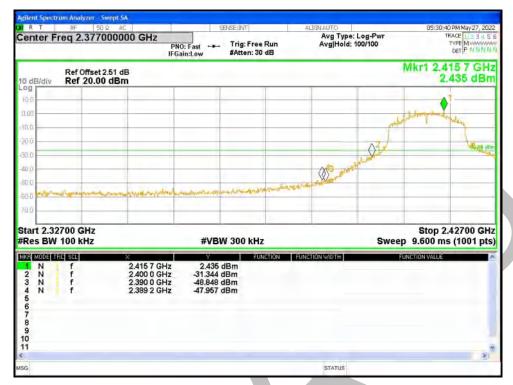


Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



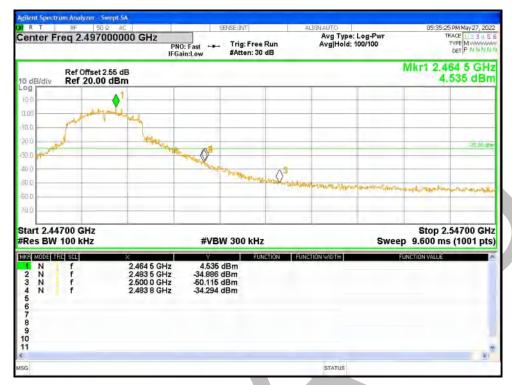


Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



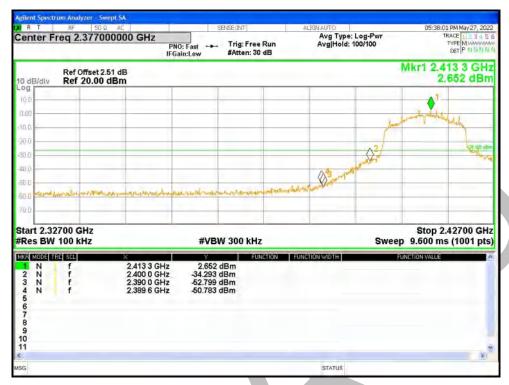


Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



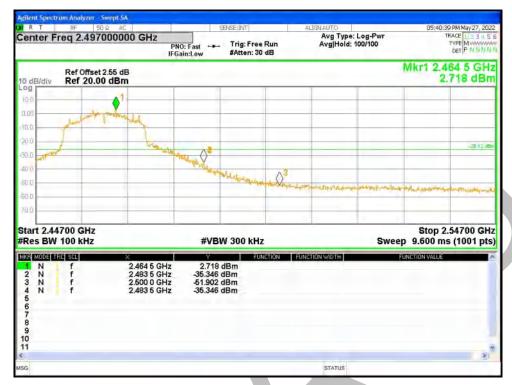


Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission





Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



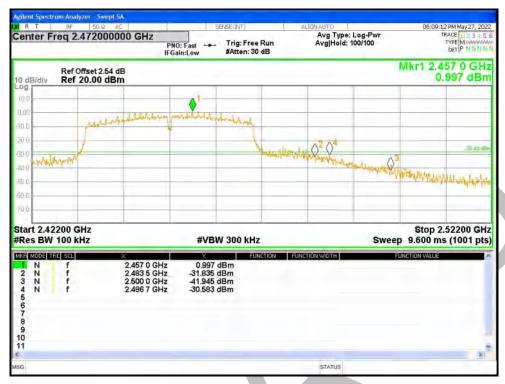


Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission







Conducted RF Spurious Emission

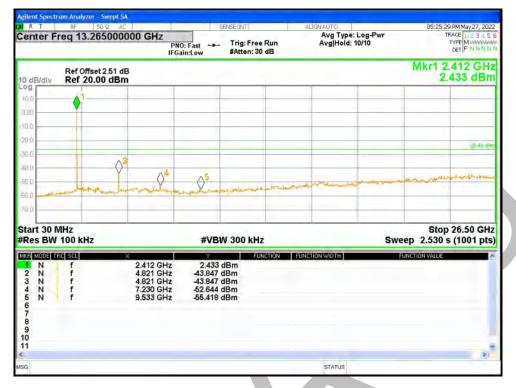
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.36	-30	Pass
NVNT	ь	2437	Ant1	-45.18	-30	Pass
NVNT	ь	2462	Ant1	-44.71	-30	Pass
NVNT	g	2412	Ant1	-46.74	-30	Pass
NVNT	g	2437	Ant1	-48.61	-30	Pass
NVNT	g	2462	Ant1	-47.77	-30	Pass
NVNT	n20	2412	Ant1	-47.26	-30	Pass
NVNT	n20	2437	Ant1	-46.04	-30	Pass
NVNT	n20	2462	Ant1	-49.08	-30	Pass
NVNT	n40	2422	Ant1	-44.47	-30	Pass
NVNT	n40	2437	Ant1	-44.52	-30	Pass
NVNT	n40	2452	Ant1	-44.23	-30	Pass

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



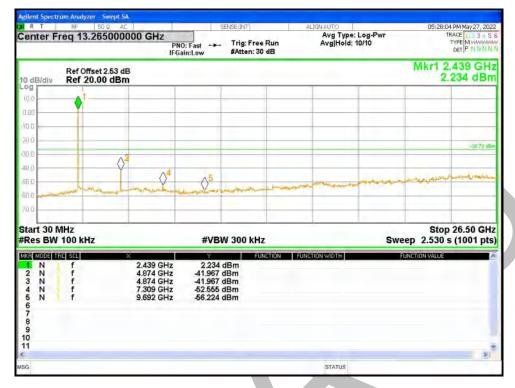


Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



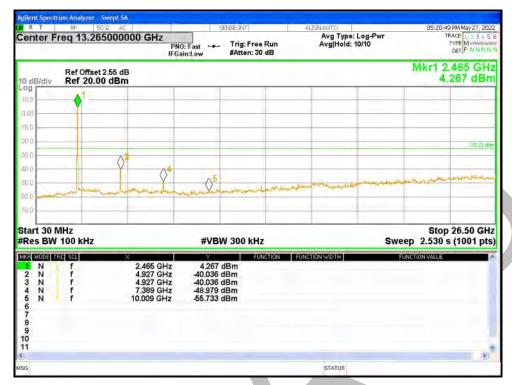


Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



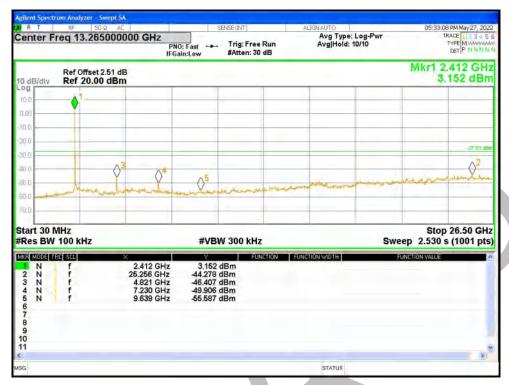


Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



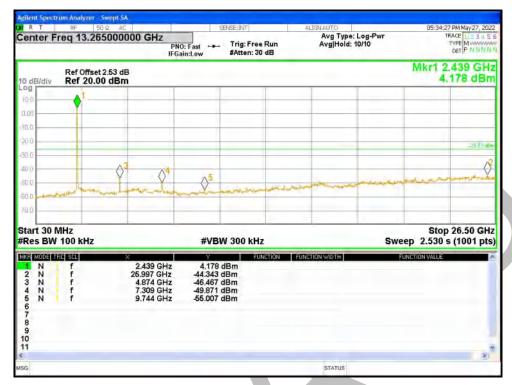


Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



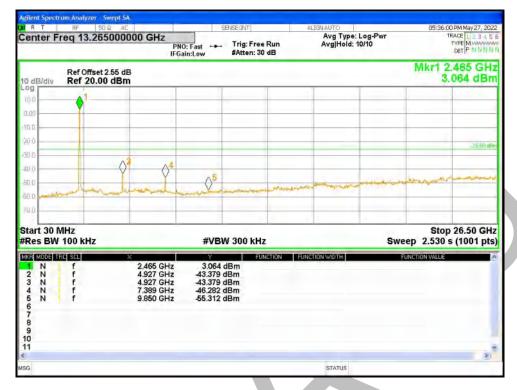


Tx. Spurious NVNT g 2462MHz Ant1 Ref

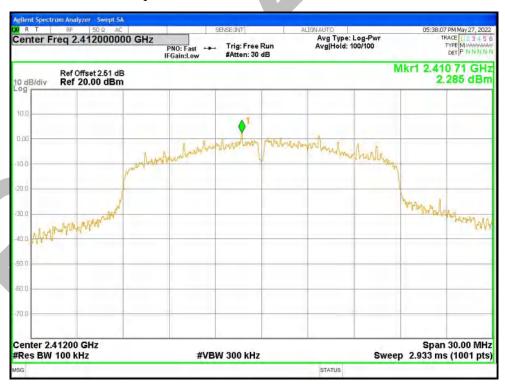


Tx. Spurious NVNT g 2462MHz Ant1 Emission



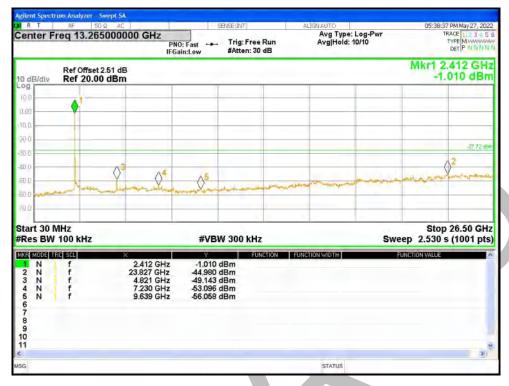


Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



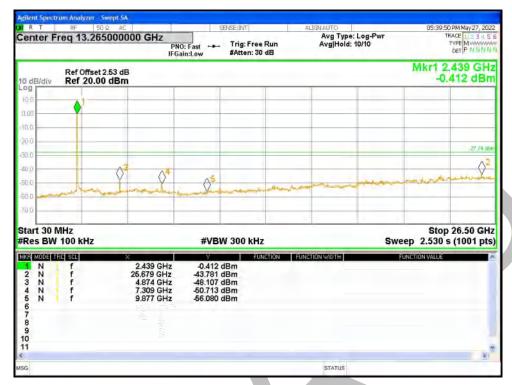


Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



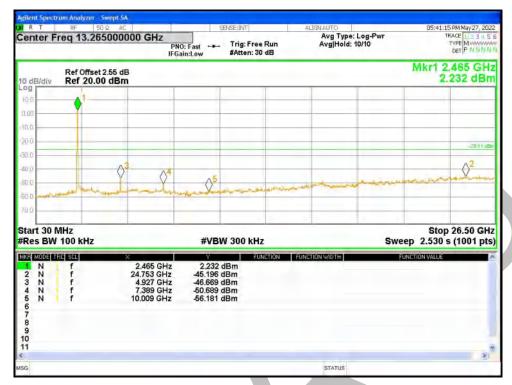


Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



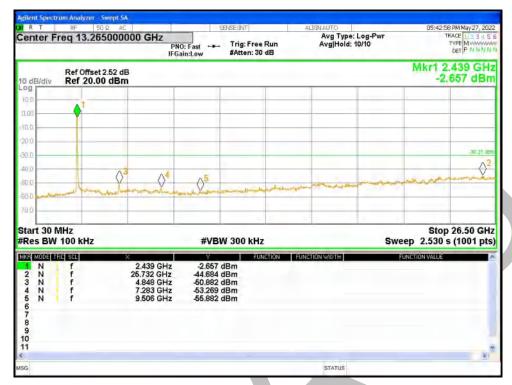


Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



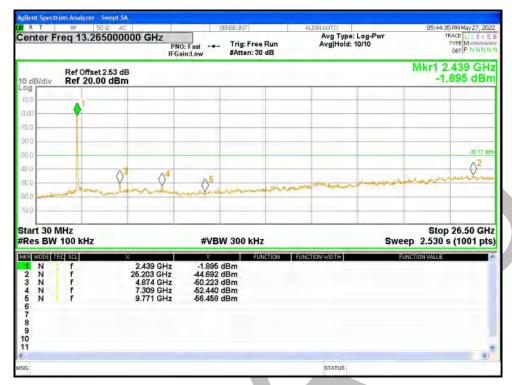


Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



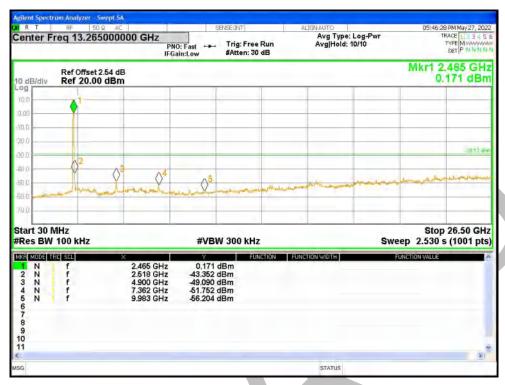


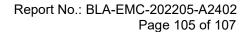
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission

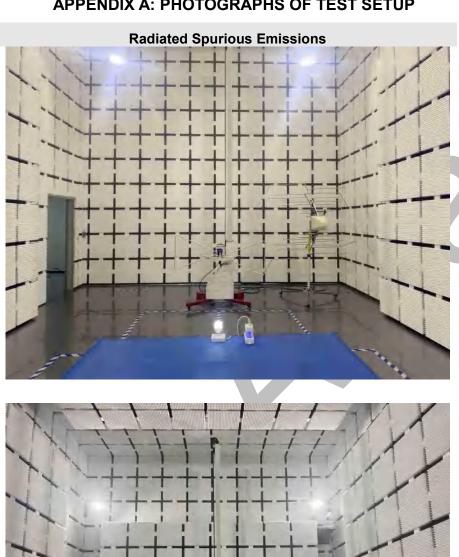


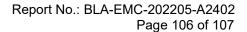






APPENDIX A: PHOTOGRAPHS OF TEST SETUP







Conducted Emissions at AC Power Line (150kHz-30MHz)



Report No.: BLA-EMC-202205-A2402

Page 107 of 107

APPENDIX B: PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202205-A2401

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

