

RADIO TEST REPORT

FCC ID: 2AWCB-KT-T03AWU

Product : Smart Multi-color Table Lamp

Trademark : N/A

Model Name : KT-T03AWU,KT-T03AW,KT-T03EWU,
KT-T03EW,KT-T03A

Applicant : SHENZHENSHI KAIXIN GUANGDIAN
CO.,LTD

Date of Issue : Aug 31, 2020

Standard(s) : FCC Part 15.247

Report No : DGE200805007D02

Prepared for

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Software Building, No. 9 GaoxinZhong Yi Road, High-Tech Park, Nanshan district,
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name.....: SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
Address.....: Software Building, No. 9 GaoxinZhong Yi Road, High-Tech Park,
Nanshan district, Shenzhen China
Manufacturer's Name.....: SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
Address.....: Software Building, No. 9 GaoxinZhong Yi Road, High-Tech Park,
Nanshan district, Shenzhen China

Product description

Product name.....: Smart Multi-color Table Lamp
Trademark: N/A
Main Model: KT-T03AWU
Series Model.....: KT-T03AW,KT-T03EWU,KT-T03EW,KT-T03A
Difference Description.....: The RF circuit principle and internal structure are the same, only Key
panel appearance colors different.
Rating(s).....: Input: AC100-240V 50/60HZ or DC 12V 3.0A

Standards.....: FCC PART 15.247

We hereby certify that:

The above equipment was tested by Shenzhen NTEK Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Date of Test.....

Date (s) of performance of tests..... Aug 05, 2020 to Aug 31, 2020

Date of Issue..... Aug 31, 2020

Test Result..... **Pass**

Testing Engineer : Leo.Zhu
(Leo.Zhu)
Technical Manager : Eder.Zhan
(Eder.Zhan)
Authorized Signatory : Wetow Huang
(Wetow Huang)

REPORT REVISE RECORD

Report No	Revise Time	Issued Date	Valid Version	Notes
DGE200805007D02	/	Aug 31, 2020	Invalid	Initial release

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1. GENERAL INFORMATION

1.1. PRODUCT DESCRIPTION

The EUT is designed as “LED Projector”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz ~ 2.462GHz
Output Power	IEEE 802.11b:14.42dBm; IEEE 802.11g:14.06dBm; IEEE 802.11n(20):14.11dBm;
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11
Hardware Version	1.0
Software Version	1.0
Antenna Designation	PCB Antenna
Number of transmit chain	1(802.11b/g/n20)
Antenna Gain	1.0dBi
Power Supply	Input: AC100-240V 50/60HZ or DC 5V 2.0A

1.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11

1.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS	NDBPS	Data rate(Mbps)
							800nsGI
					20MHz	20MHz	20MHz
0	1	BPSK	1/2	1	52	26	6.5
1	1	QPSK	1/2	2	104	52	13.0
2	1	QPSK	3/4	2	104	78	19.5
3	1	16-QAM	1/2	4	208	104	26.0
4	1	16-QAM	3/4	4	208	156	39.0
5	1	64-QAM	2/3	6	312	208	52.0
6	1	64-QAM	3/4	6	312	234	58.5
7	1	64-QAM	5/6	6	312	260	65.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

1.4. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

1.5 SPECIAL ACCESSORIES

Refer to section 5.2.

1.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating

Note:

Transmit by 802.11b with Data rate (1/2/5.5/11)

Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Data rate (13.5/27/40.5/54/81/108/121.5/135)

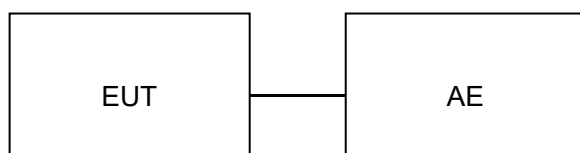
Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. The test software is the SecureCRTSecure_V6.2.3 which can set the EUT into the individual test modes.
4. This module is not supported N40 Mode

4. SYSTEM TEST CONFIGURATION

4.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



4.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart Multi-color Table Lamp	KT-T03AWU	2AWCB-KT-T03AWU	EUT
3	Adapter	HJ-0502000N2-US	Input: AC 100-240V, 50/60Hz, 0.3A or DC 12V, 3.0A	Market with EUT
4	Loudspeaker	--	--	AE
5				

4.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

5. TEST FACILITY

Site Description	
CNAS-Lab.	The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A-1.
FCC- Accredited	Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 10, 2020	Jun. 09, 2021
LISN	R&S	ESH2-Z5	101313	Apr. 18, 2020	Apr. 17, 2021

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 10, 2020	Jun. 09, 2021
EXA Signal Analyzer	Aglient	N9020A	MY49100060	May. 11, 2020	May. 10, 2021
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2020	Feb. 26, 2021
Attenuator	ZHINAN	E-002	N/A	Aug. 26, 2020	Aug. 25, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2020	Jun. 13, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2020	May. 25, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2019	Oct. 24, 2021
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2020	Sep. 27, 2022
Spectrum analyzer	R&S	FSU	HKE-048	Dec. 20, 2020	Dec. 19, 2021
Power Meter	DARE	RPR3006W	14I00889S00 43	May.12 2020	May.11 2021

6. OUTPUT POWER

6.1. MEASUREMENT PROCEDURE

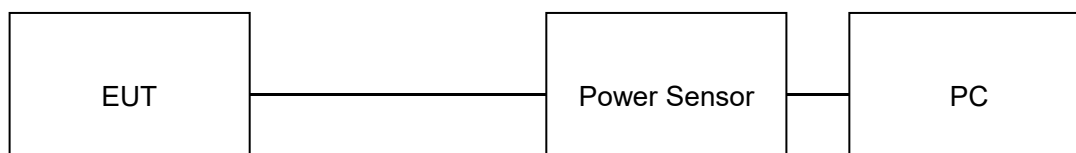
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

6.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

AVERAGE POWER SETUP



6.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER
TEST MODE	802.11b with data rate 1

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.72	30	Pass
2.437	14.23	30	Pass
2.462	14.42	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11g with data rate 6

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.71	30	Pass
2.437	14.03	30	Pass
2.462	14.06	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11n 20 with data rate 6.5

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.67	30	Pass
2.437	14.11	30	Pass
2.462	14.09	30	Pass

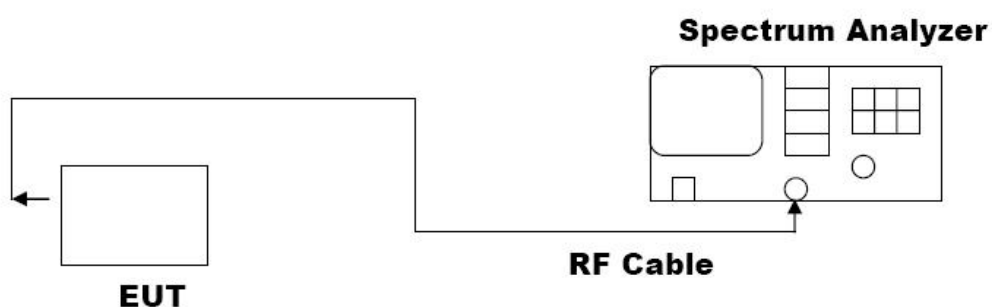
7. 6 DB BANDWIDTH

7.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



7.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11b with data rate 11

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Applicable Limits			
	Channel	6 dB Bandwidth (MHz)	99% OBW (MHz)	Criteria
>500KHZ	Low Channel	8.578	13.444	PASS
	Middle Channel	9.010	13.426	PASS
	High Channel	9.037	13.539	PASS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11g with data rate 54

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Applicable Limits			
	Channel	6 dB Bandwidth (MHz)	99% OBW (MHz)	Criteria
>500KHZ	Low Channel	16.36	16.4447	PASS
	Middle Channel	16.38	16.450	PASS
	High Channel	16.36	16.444	PASS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 20 with data rate 65

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Applicable Limits			
	Channel	6 dB Bandwidth (MHz)	99% OBW (MHz)	Criteria
>500KHZ	Low Channel	17.32	17.602	PASS
	Middle Channel	17.33	17.610	PASS
	High Channel	17.55	17.604	PASS

802.11b TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



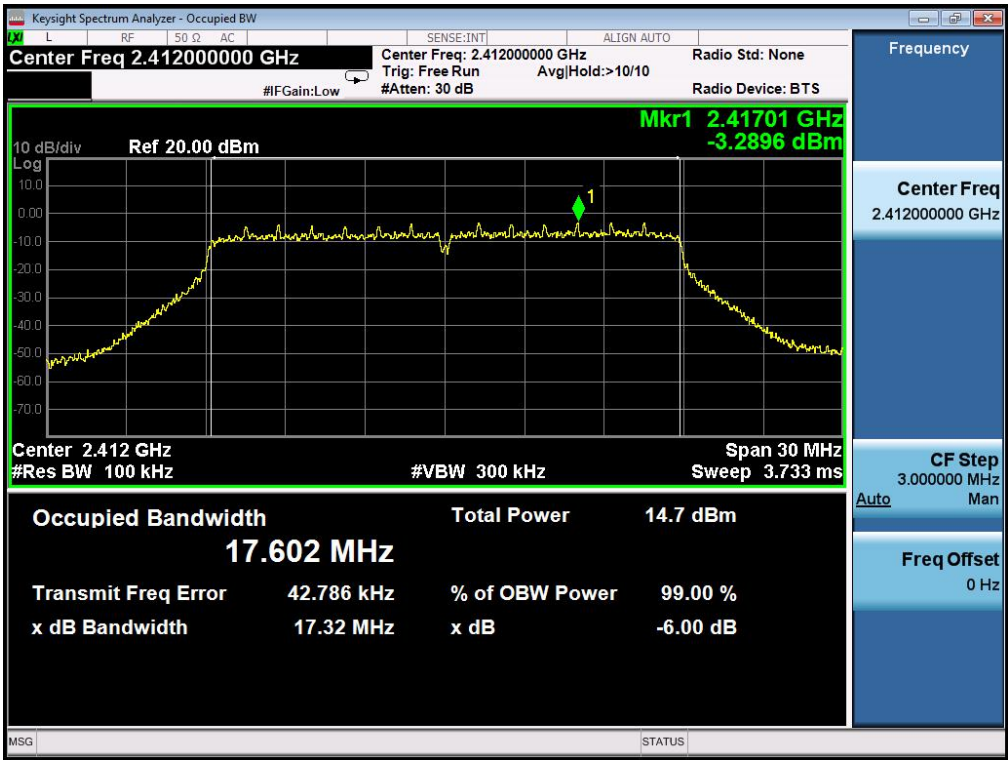
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11n (20) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=100KHz, VBW>RBW, scan up through 10th harmonic.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

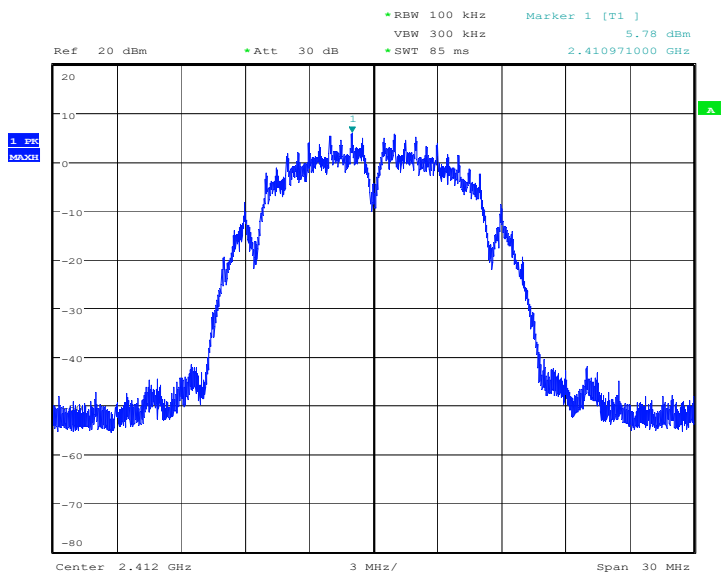
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

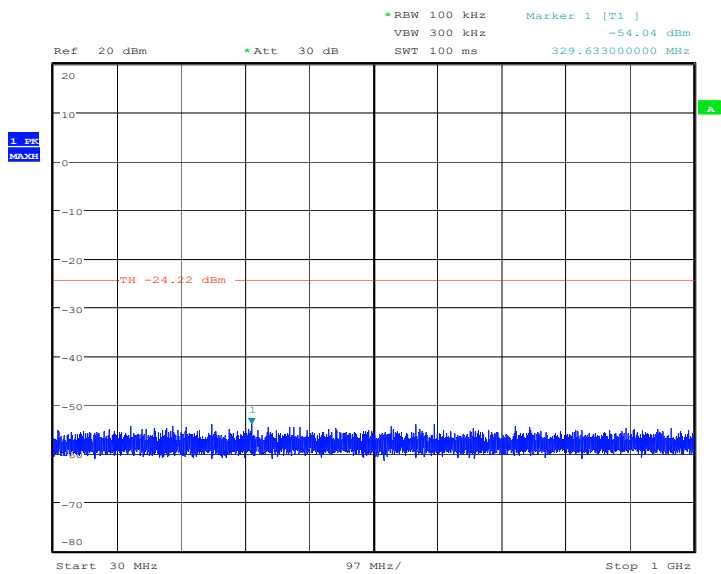
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 30 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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))	At least -30dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -30dBc than the limit Specified on the TOP Channel	PASS

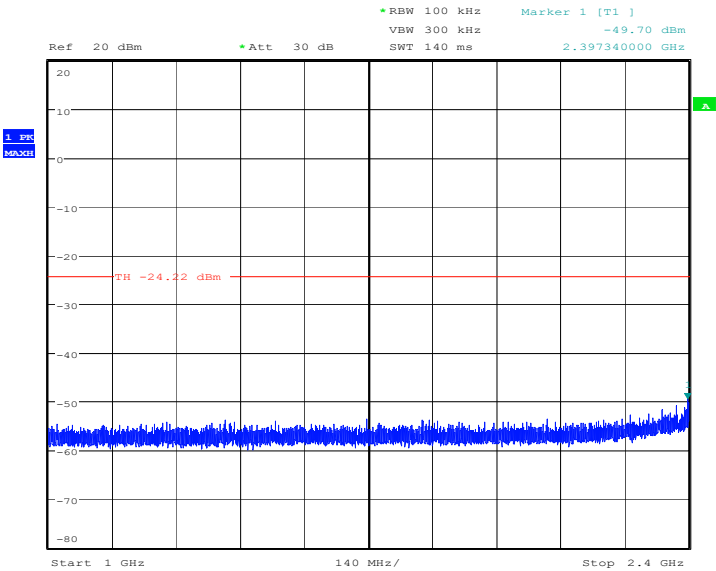
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OF 802.11b FOR MODULATION IN LOW CHANNEL



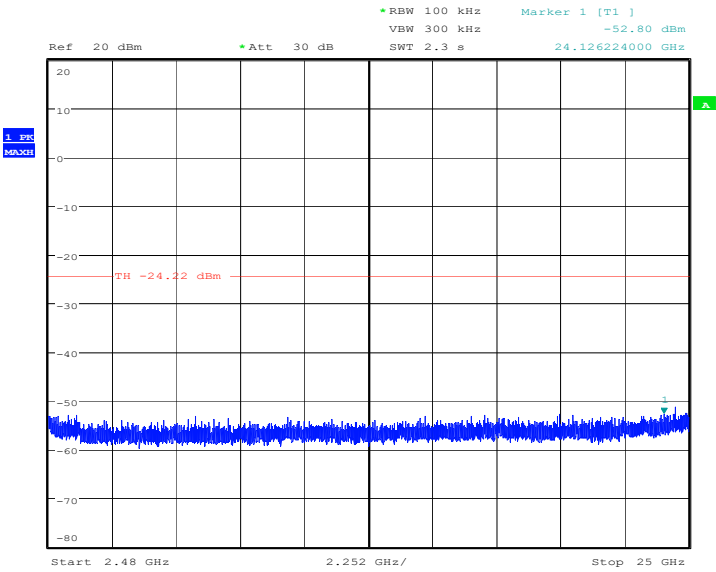
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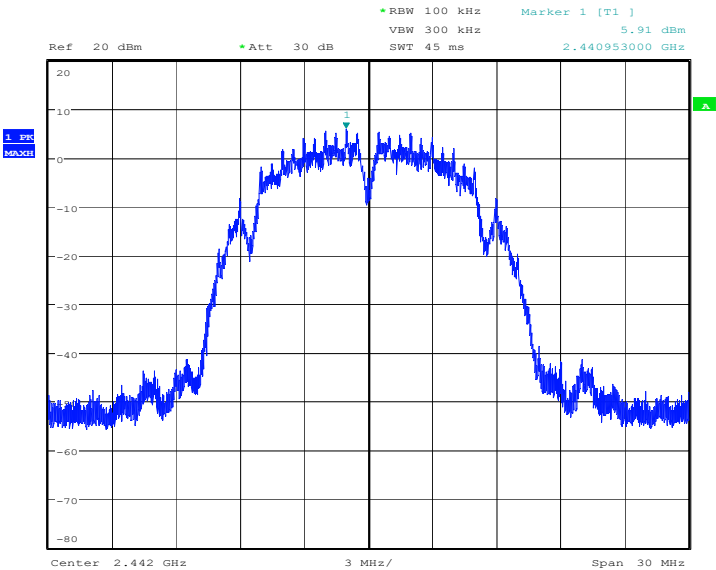


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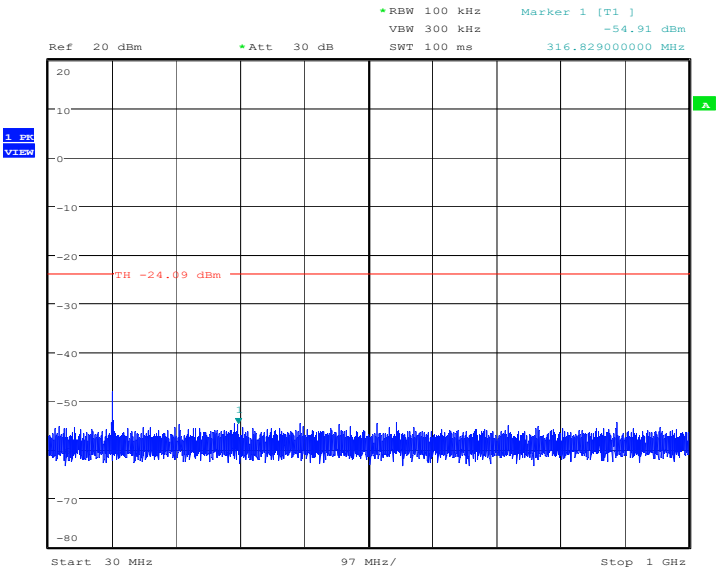


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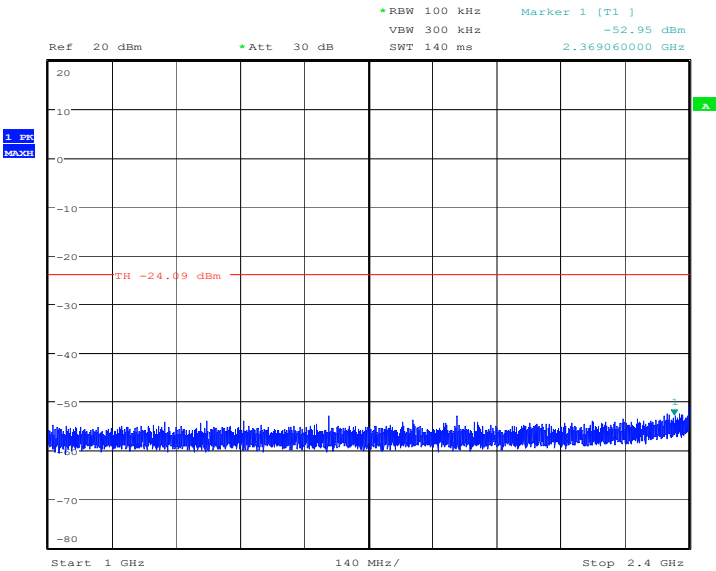
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
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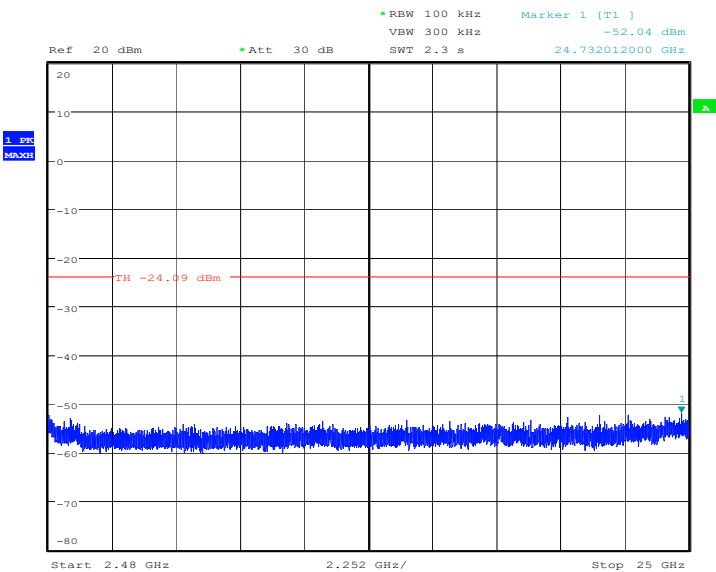
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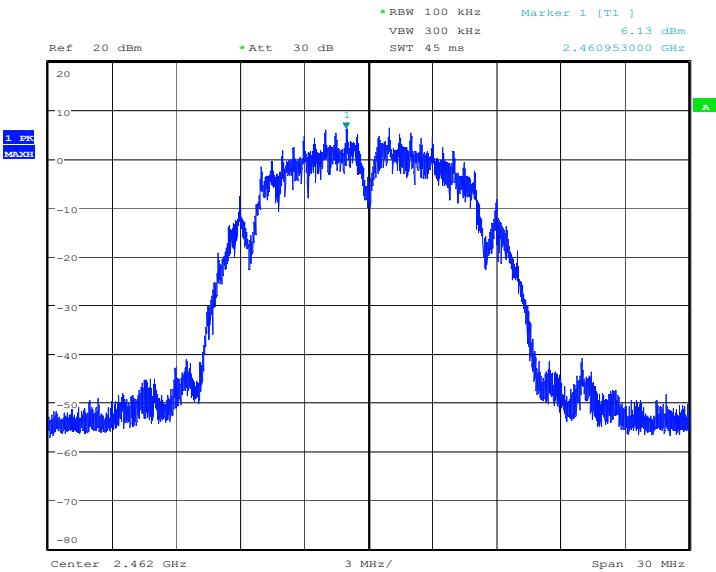


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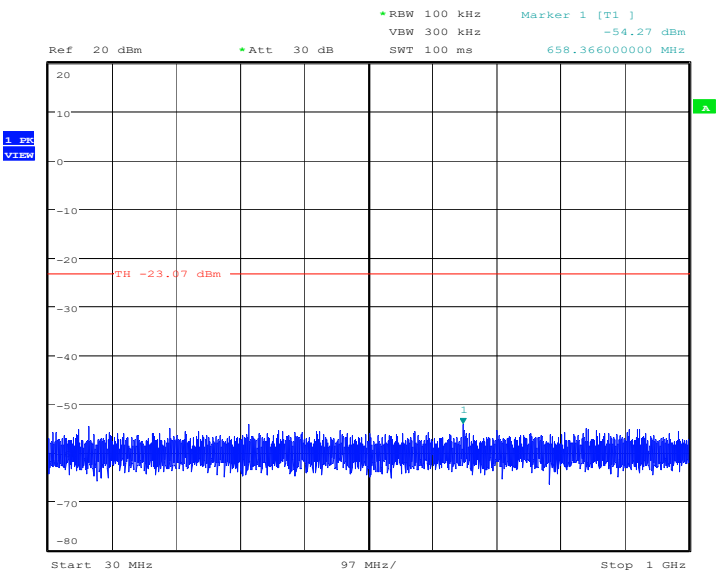


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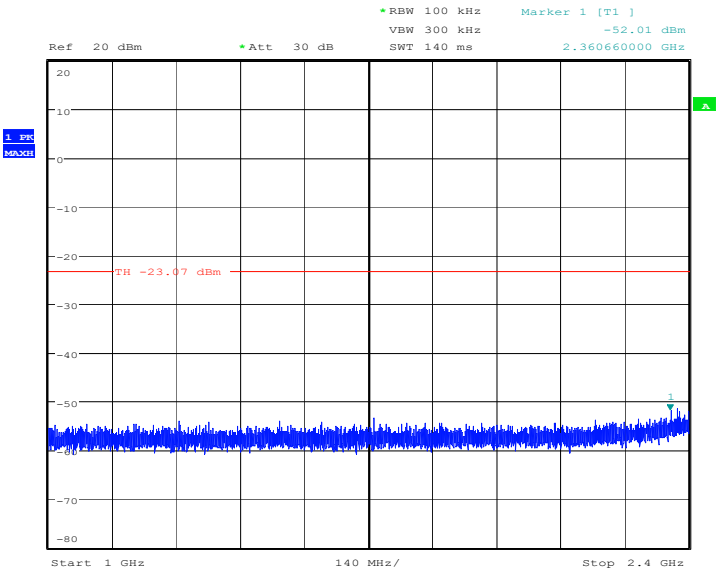
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11b FOR MODULATION IN HIGH CHANNEL



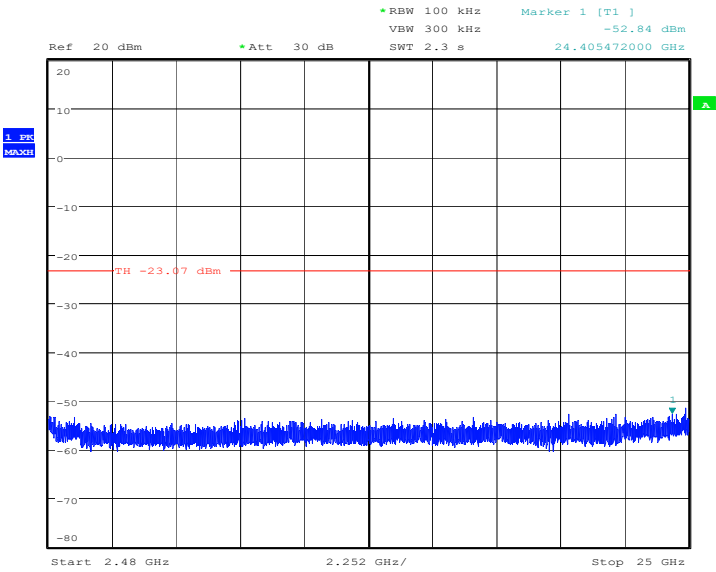
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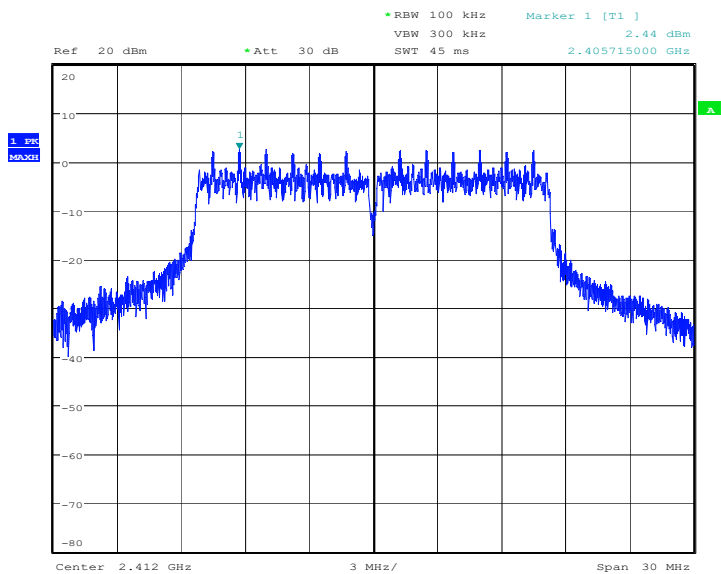


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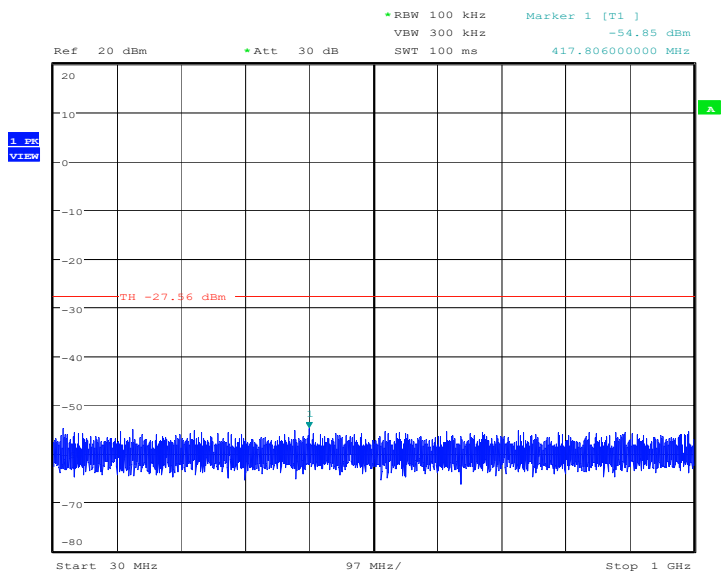


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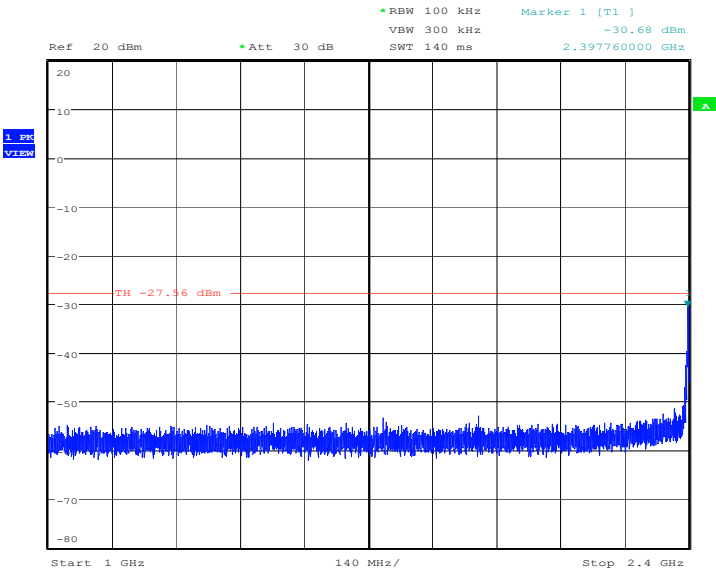
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11g FOR MODULATION IN LOW CHANNEL



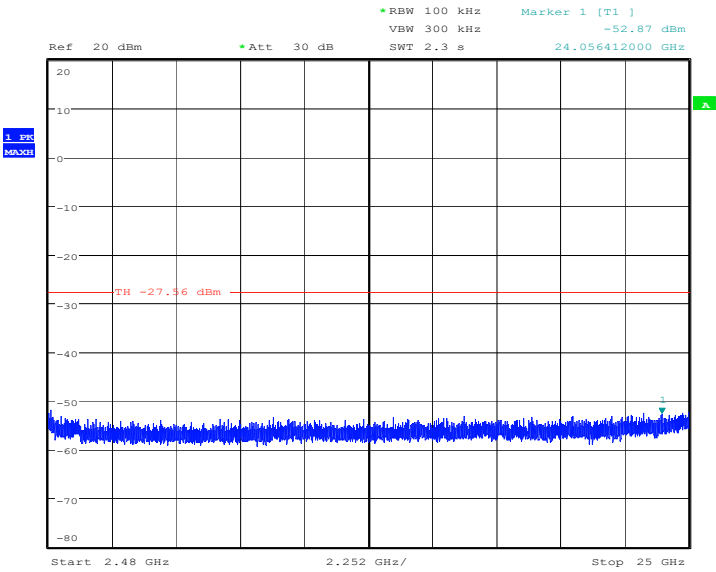
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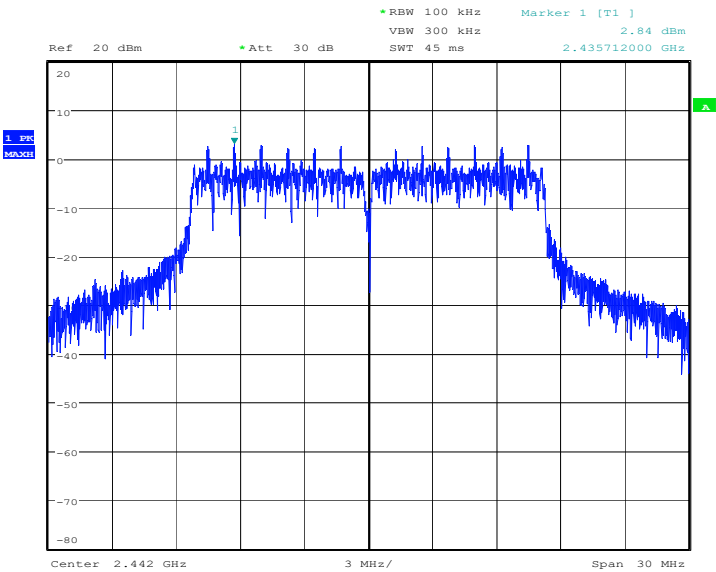


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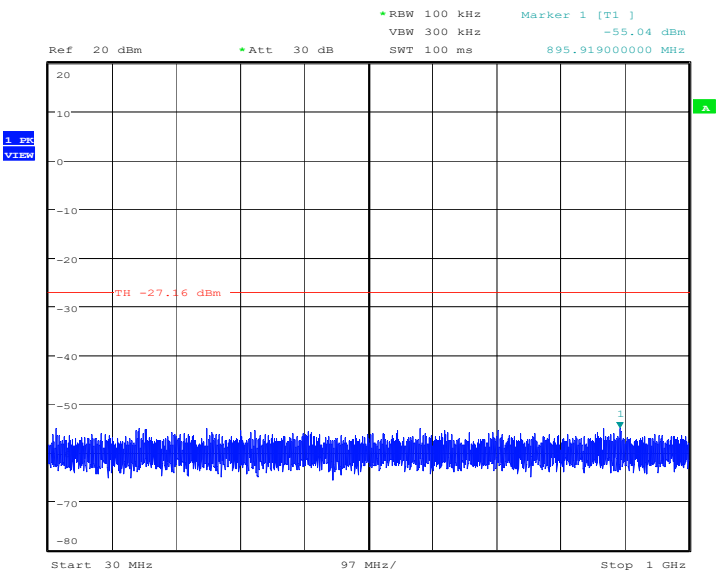


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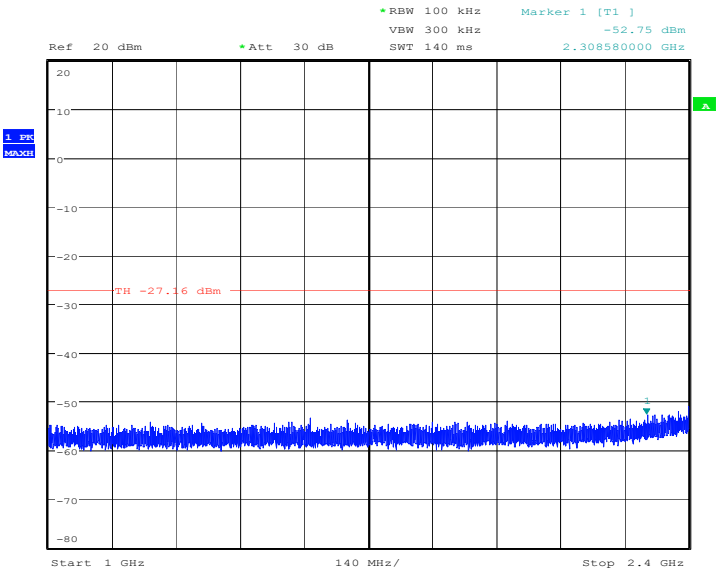
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



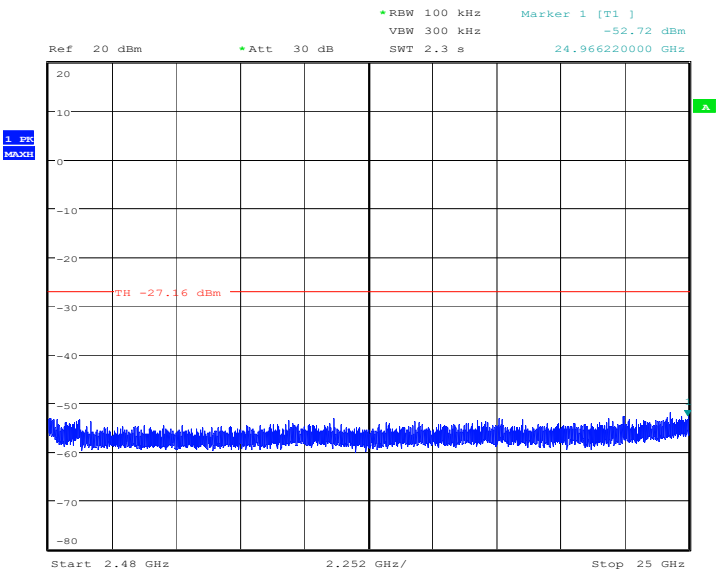
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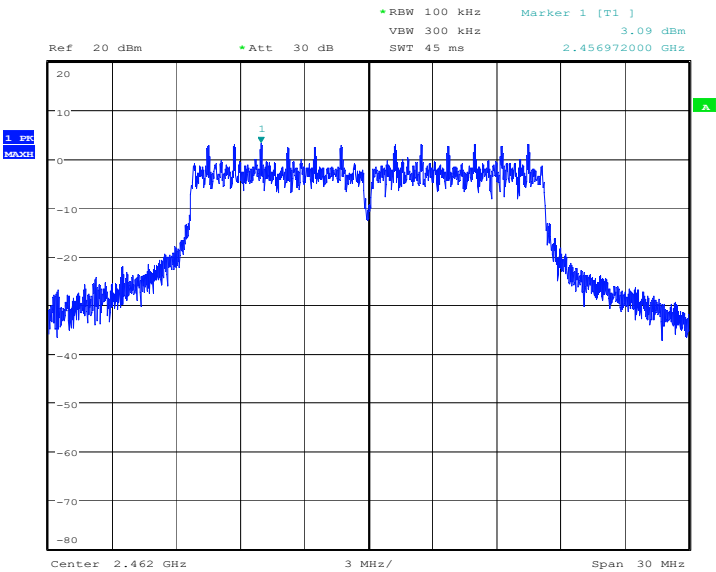


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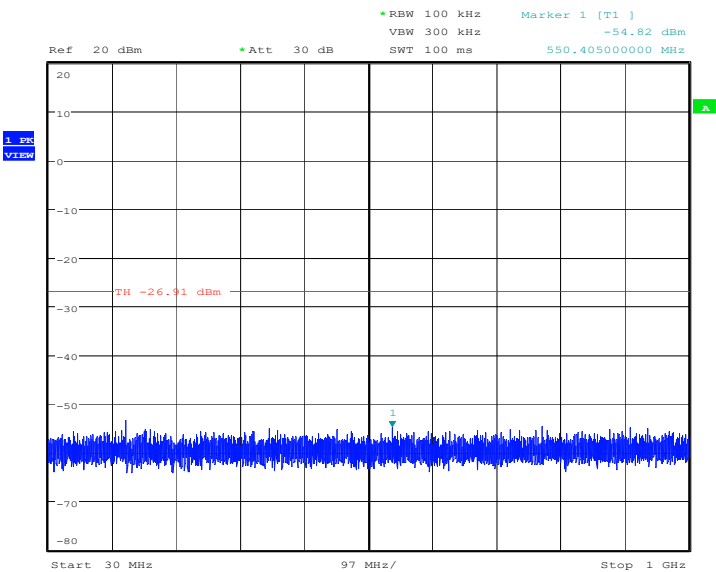


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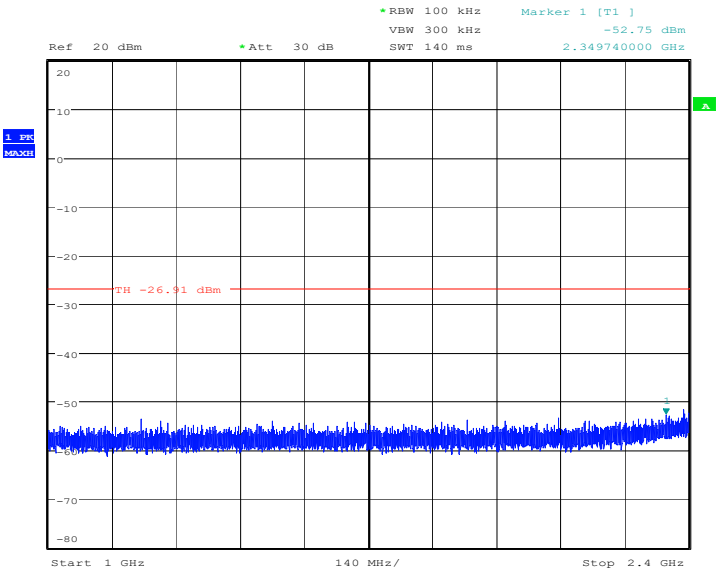
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11g FOR MODULATION IN HIGH CHANNEL



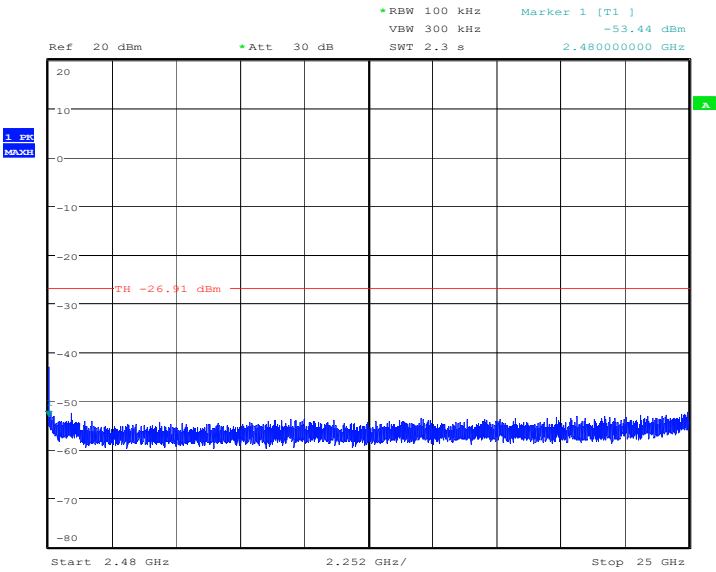
Date: 28.AUG.2020 16:30:55



Date: 28.AUG.2020 16:31:41

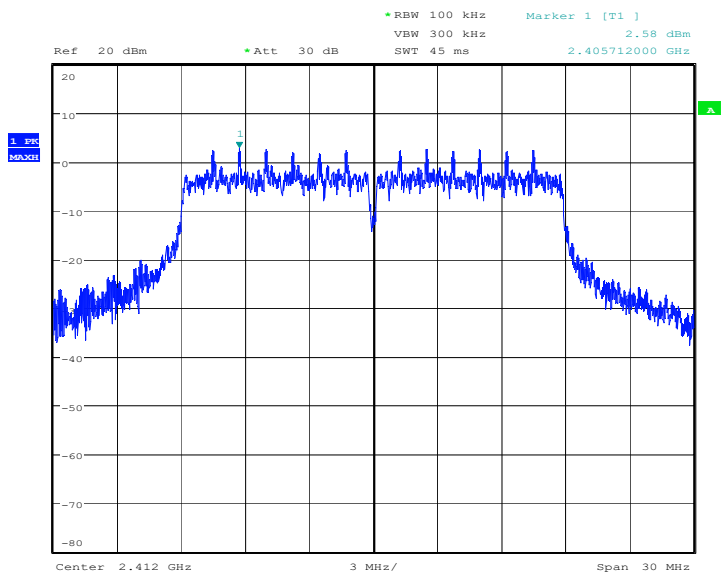


Date: 28.AUG.2020 16:32:05

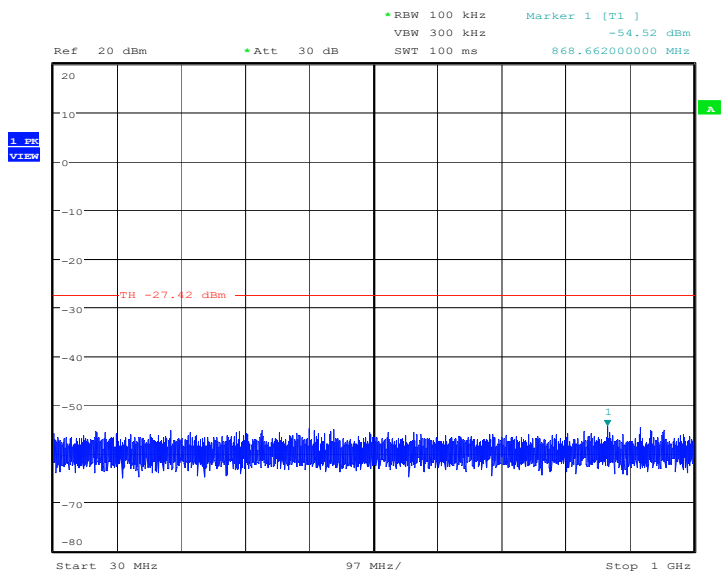


Date: 28.AUG.2020 16:32:31

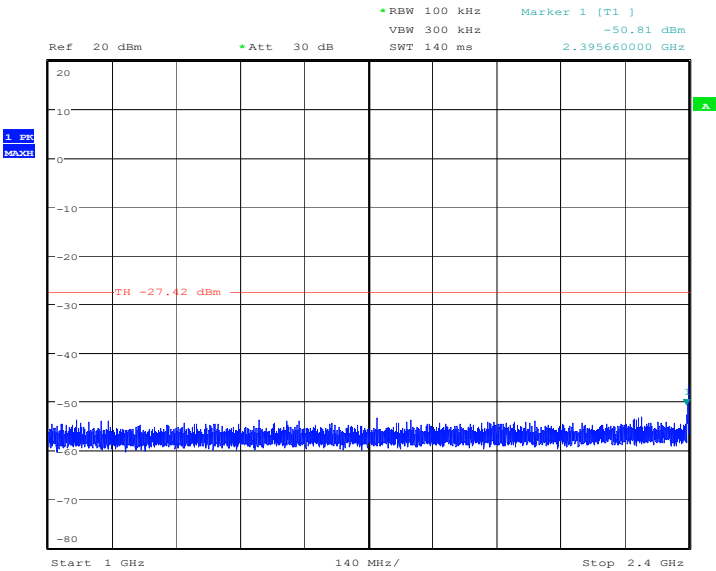
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11n20 FOR MODULATION IN LOW CHANNEL



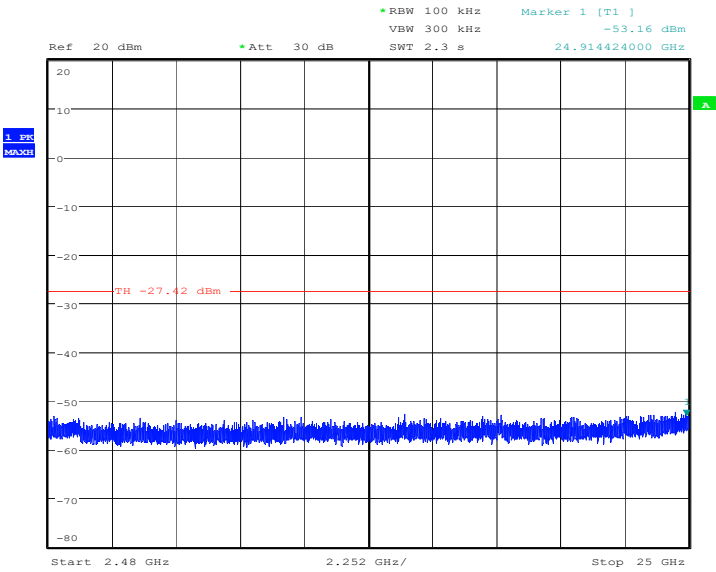
Date: 28.AUG.2020 16:39:45



Date: 28.AUG.2020 16:40:11

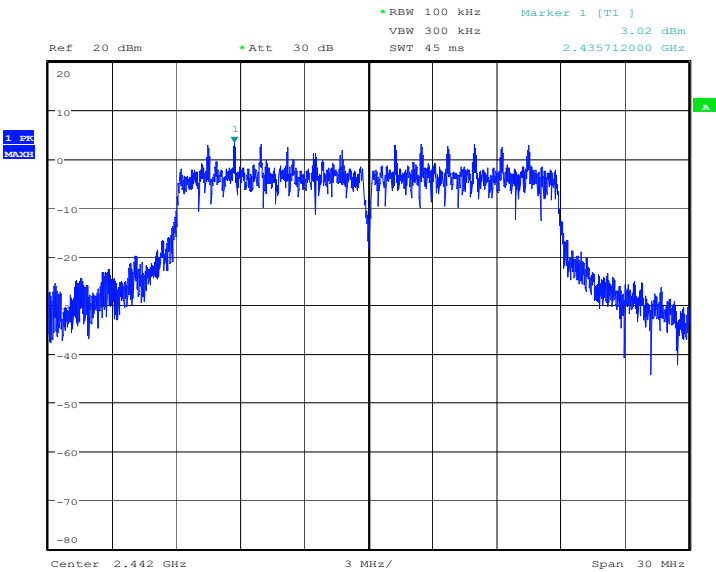


Date: 28.AUG.2020 16:41:29

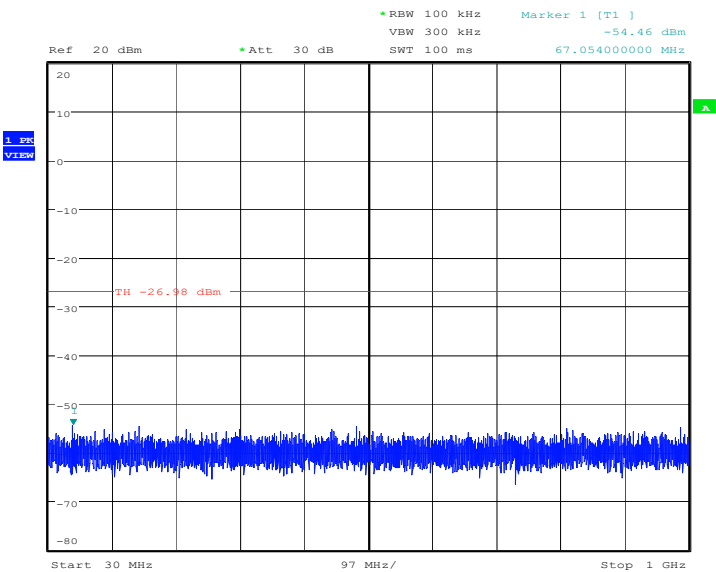


Date: 28.AUG.2020 16:41:58

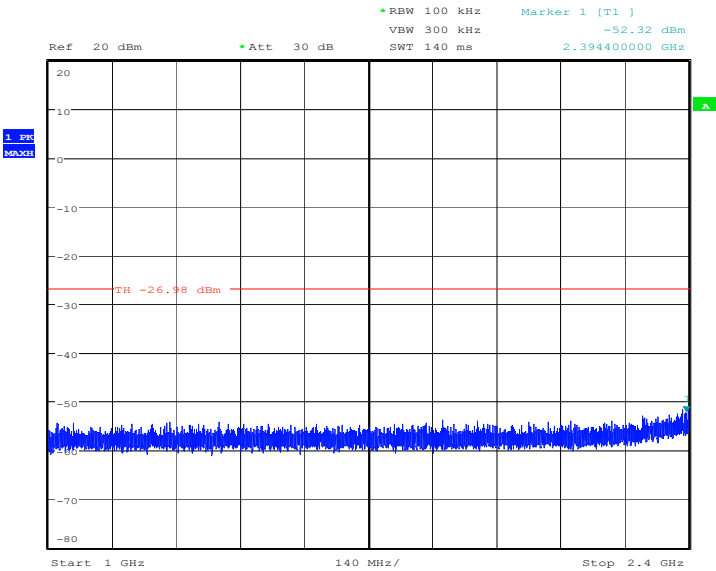
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



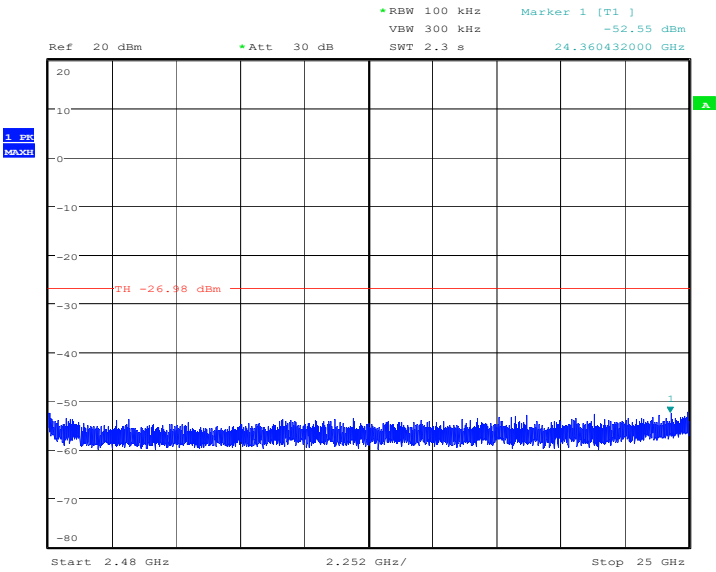
Date: 28.AUG.2020 16:42:54



Date: 28.AUG.2020 16:43:19

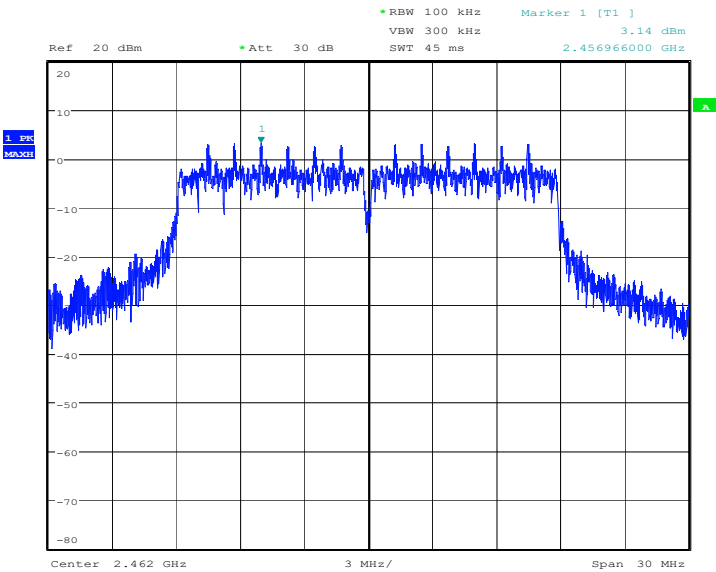


Date: 28.AUG.2020 16:43:42

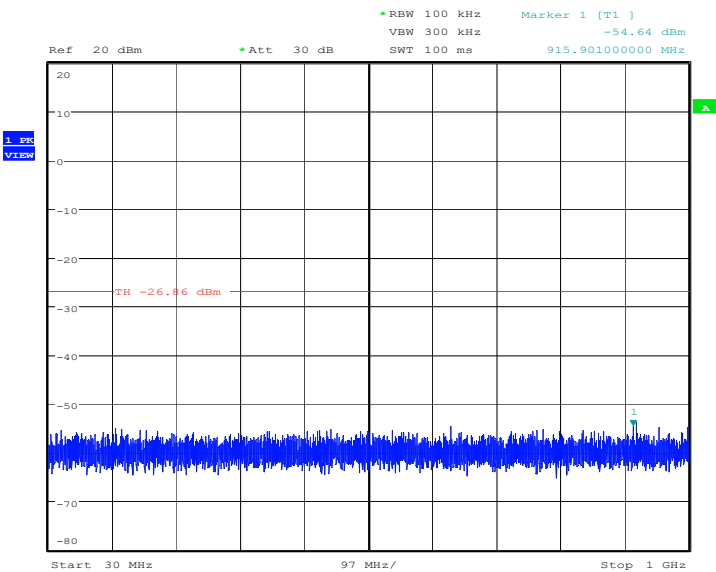


Date: 28.AUG.2020 16:44:10

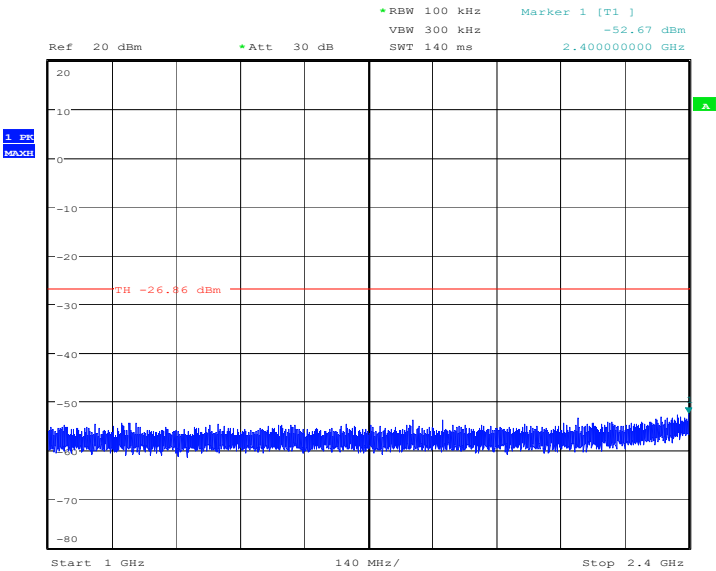
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n20 FOR MODULATION IN HIGH CHANNEL



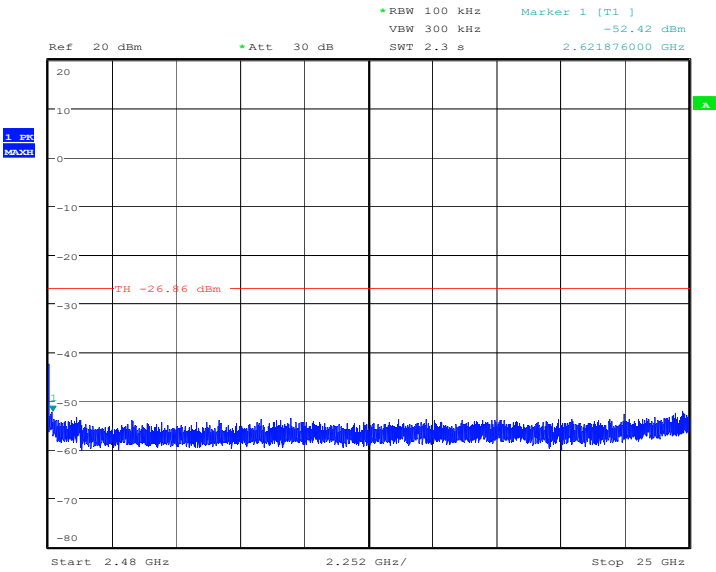
Date: 28.AUG.2020 16:44:58



Date: 28.AUG.2020 16:45:20



Date: 28.AUG.2020 16:45:39



Date: 28.AUG.2020 16:46:02

Note: transmit chains had been tested, the was the worst case and record in the test report.

10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPS-1 in the ANSI C63.10 (2013) item 10.3 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11b with data rate 1

Channel No.	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-16.45	8	Pass
Middle Channel	-17.01	8	Pass
High Channel	-19.32	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11g with data rate 6

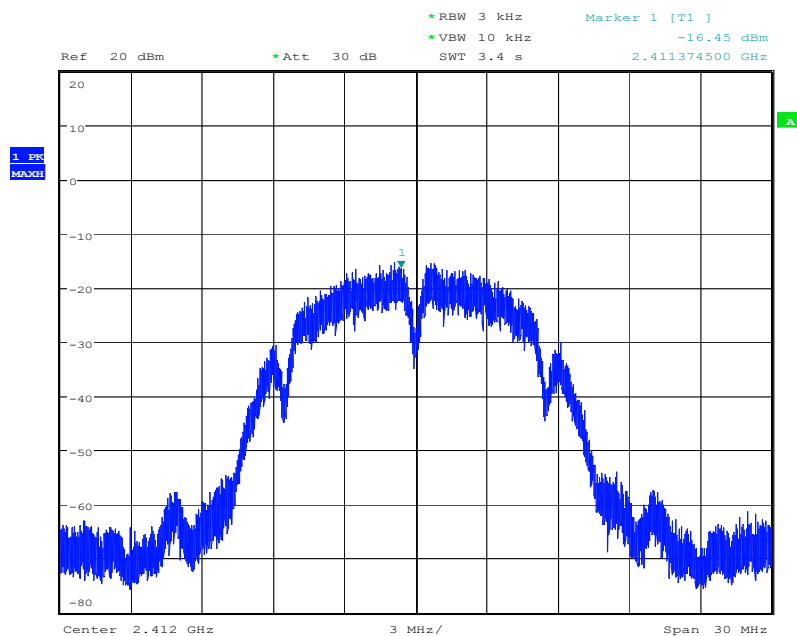
Channel No.	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-17.67	8	Pass
Middle Channel	-19.47	8	Pass
High Channel	-21.50	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 20 with data rate 6.5

Channel No.	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-17.93	8	Pass
Middle Channel	-19.54	8	Pass
High Channel	-22.52	8	Pass

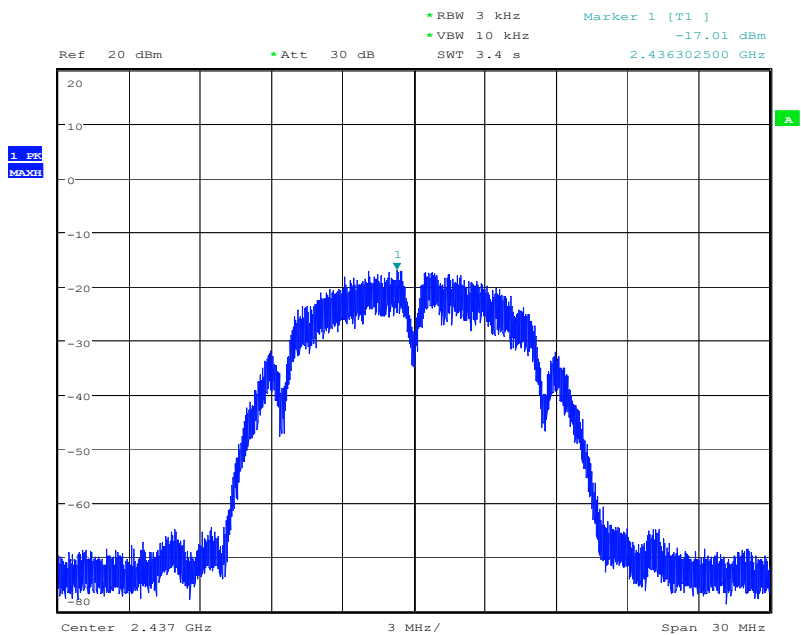
802.11b TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



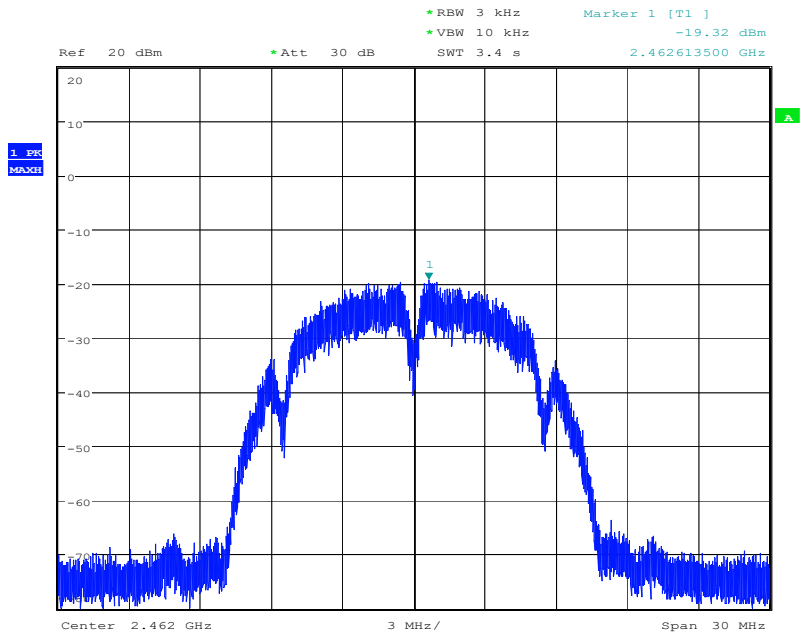
Date: 31.AUG.2020 15:39:24

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



Date: 31.AUG.2020 15:55:31

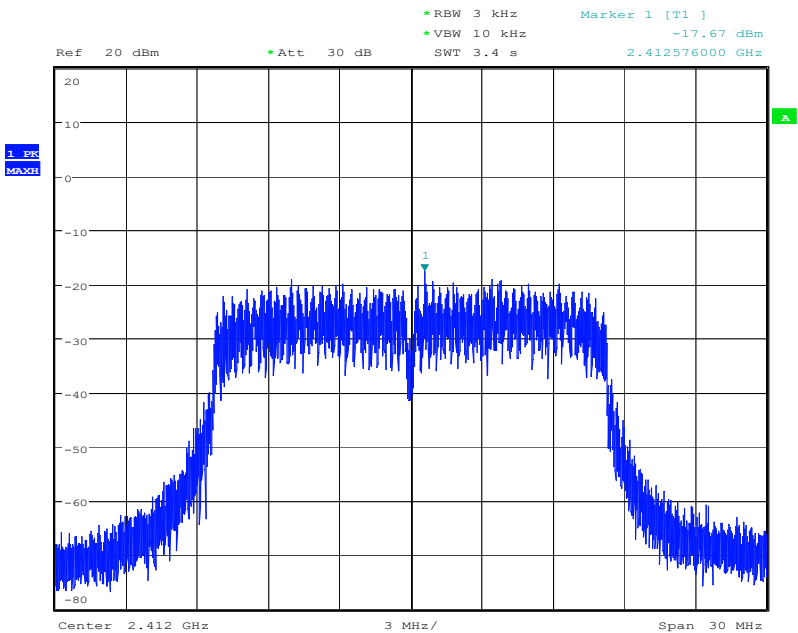
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



Date: 31.AUG.2020 15:42:09

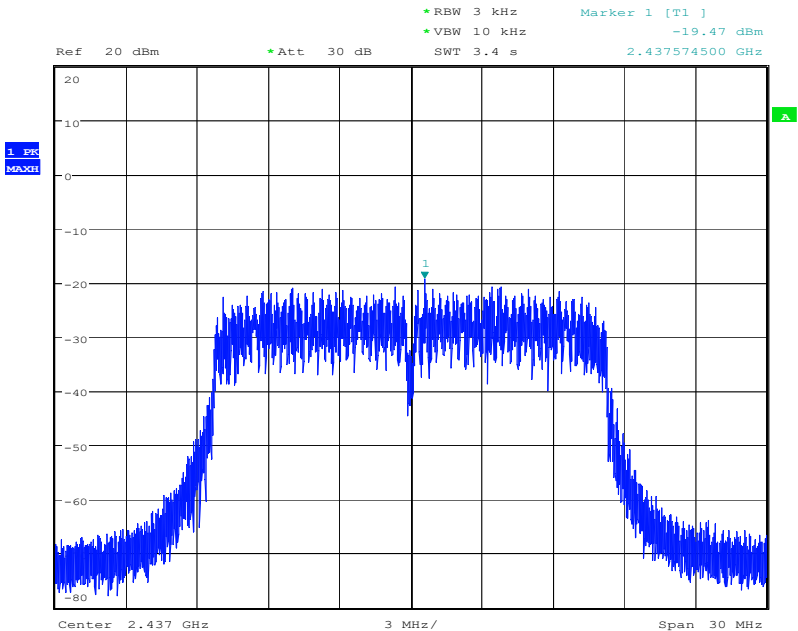
802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



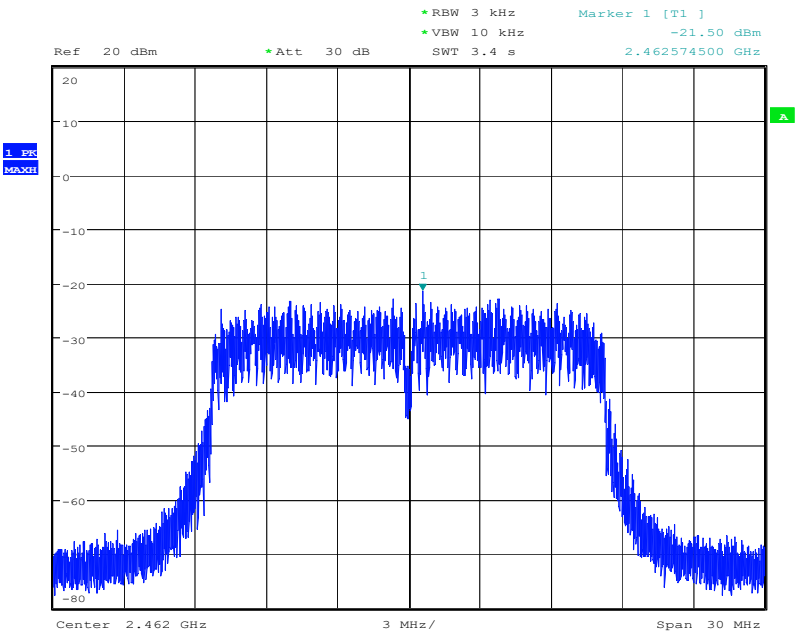
Date: 31.AUG.2020 15:46:07

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



Date: 31.AUG.2020 15:56:16

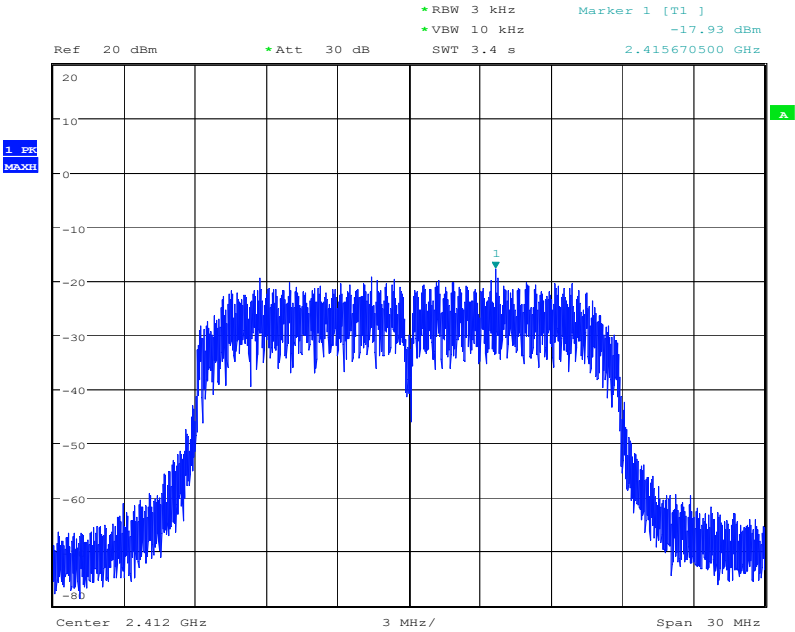
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



Date: 31.AUG.2020 15:43:52

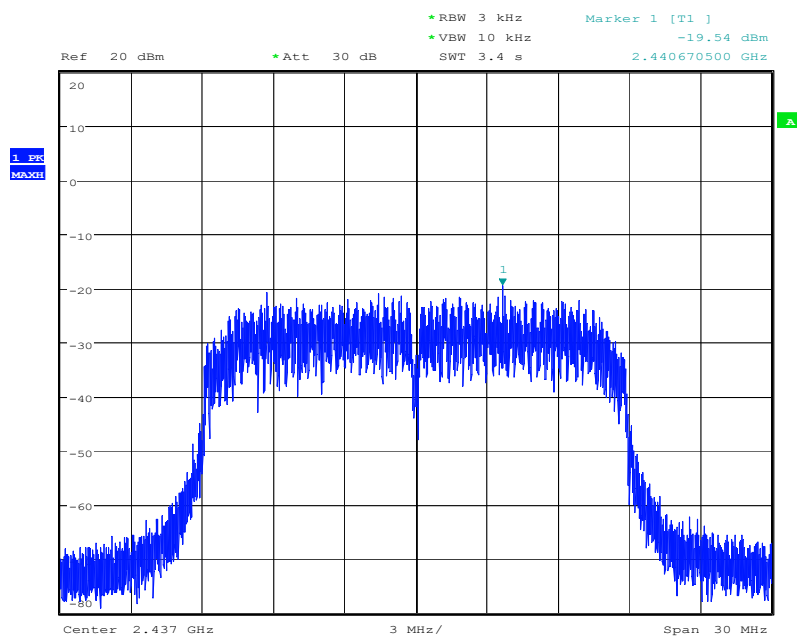
802.11n 20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



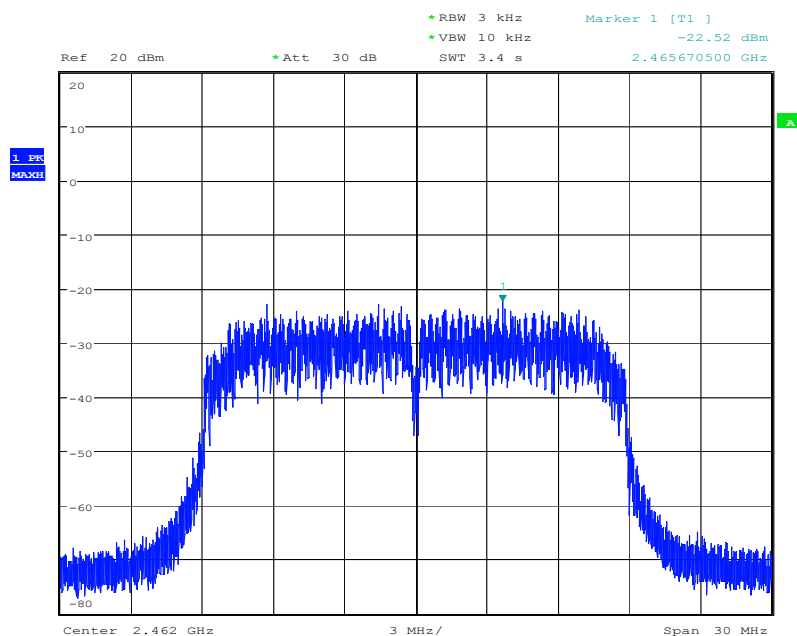
Date: 31.AUG.2020 15:46:43

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



Date: 31.AUG.2020 15:56:51

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



Date: 31.AUG.2020 15:49:00

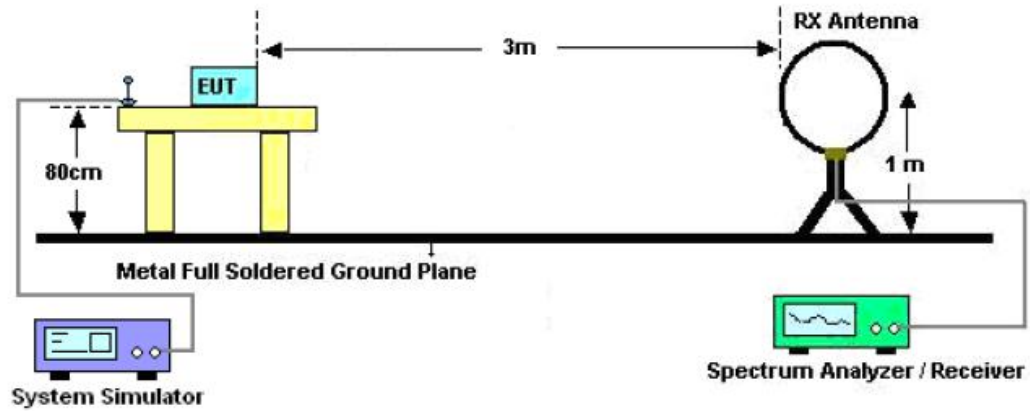
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

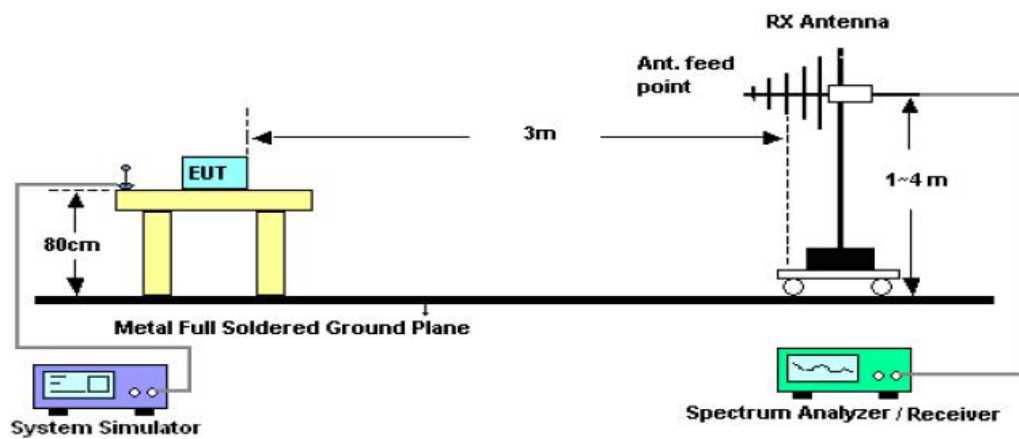
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP

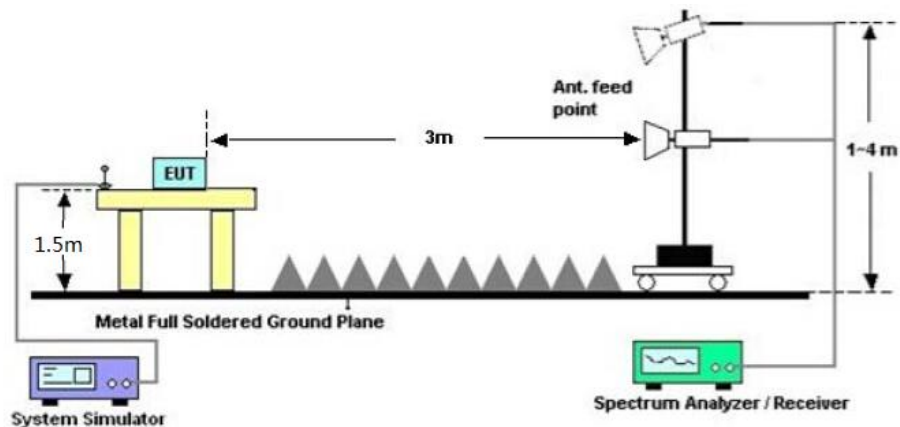
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

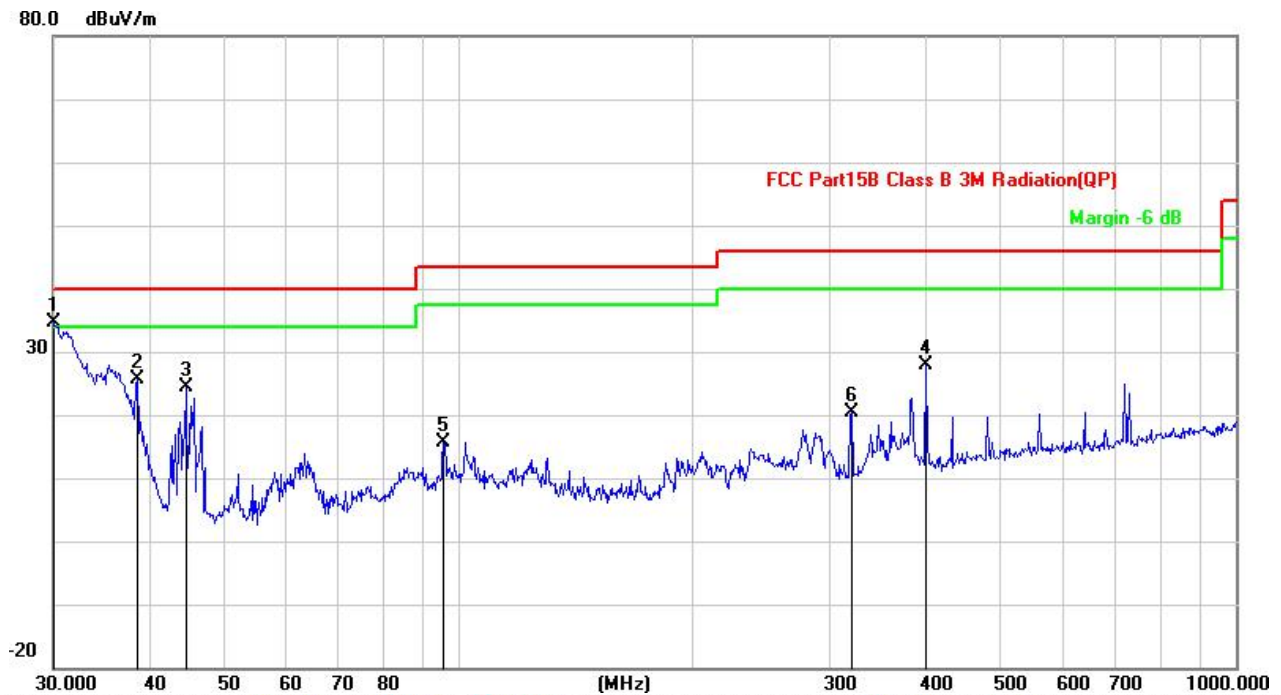
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dB/m	dB Detector	cm	degree Comment
1	*	30.1979	54.55	-19.84	34.71	40.00	-5.29 QP		
2		38.4809	50.27	-24.66	25.61	40.00	-14.39 QP		
3		44.5478	51.08	-26.61	24.47	40.00	-15.53 QP		
4		400.0810	48.54	-20.77	27.77	46.00	-18.23 QP		
5		95.6364	41.82	-26.29	15.53	43.50	-27.97 QP		
6		320.0772	43.48	-23.05	20.43	46.00	-25.57 QP		

RESULT: PASS

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.
3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

RADIATED EMISSION ABOVE 1GHZ

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.45	58.16	3.72	61.88	74.00	-12.12	peak
4824.18	33.94	3.72	37.66	54.00	-16.34	AVG
7236.18	57.03	8.15	65.18	74.00	-8.82	peak
7236.93	33.10	8.15	41.25	54.00	-12.75	AVG

Remark:

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

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.63	58.24	3.72	61.96	74.00	-12.04	peak
4824.91	34.15	3.72	37.87	54.00	-16.13	AVG
7236.73	57.18	8.15	65.33	74.00	-8.67	peak
7236.50	32.89	8.15	41.04	54.00	-12.96	AVG

Remark:

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

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.70	57.15	3.75	60.90	74.00	-13.10	peak
4874.79	42.11	3.75	45.86	54.00	-8.14	AVG
7311.58	50.76	8.16	58.92	74.00	-15.08	peak
7311.63	37.37	8.16	45.53	54.00	-8.47	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.16	57.39	3.75	61.14	74.00	-12.86	peak
4874.55	42.06	3.75	45.81	54.00	-8.19	AVG
7311.28	50.94	8.16	59.10	74.00	-14.90	peak
7311.14	37.25	8.16	45.41	54.00	-8.59	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.08	57.67	3.81	61.48	74.00	-12.52	peak
4924.12	43.86	3.81	47.67	54.00	-6.33	AVG
7386.41	50.75	8.19	58.94	74.00	-15.06	peak
7386.29	37.55	8.19	45.74	54.00	-8.26	AVG

Remark:

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

EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.35	57.37	3.81	61.18	74.00	-12.82	peak
4924.21	43.90	3.81	47.71	54.00	-6.29	AVG
7386.64	50.97	8.19	59.16	74.00	-14.84	peak
7386.62	37.56	8.19	45.75	54.00	-8.25	AVG

Remark:

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

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

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

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

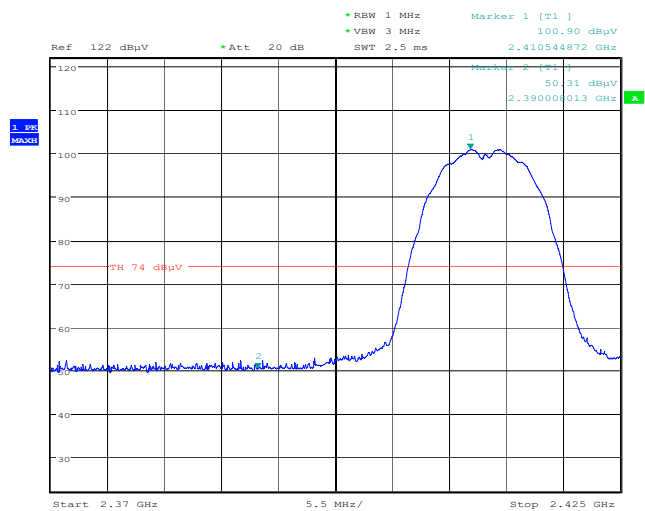
Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

12.3. Test Result

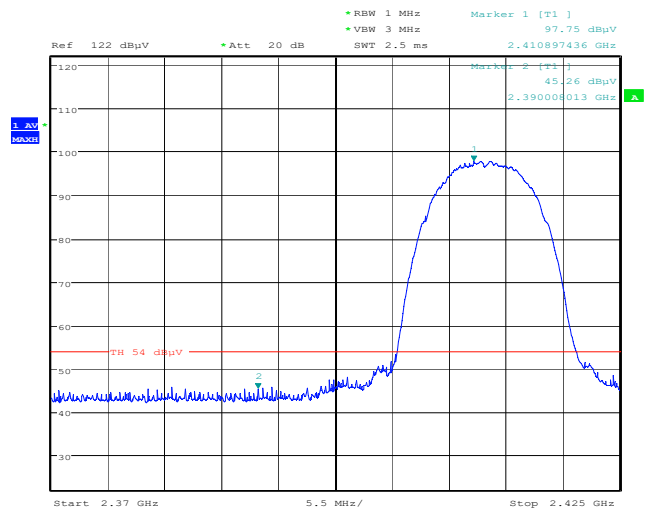
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



Date: 31.AUG.2020 09:14:29

AV

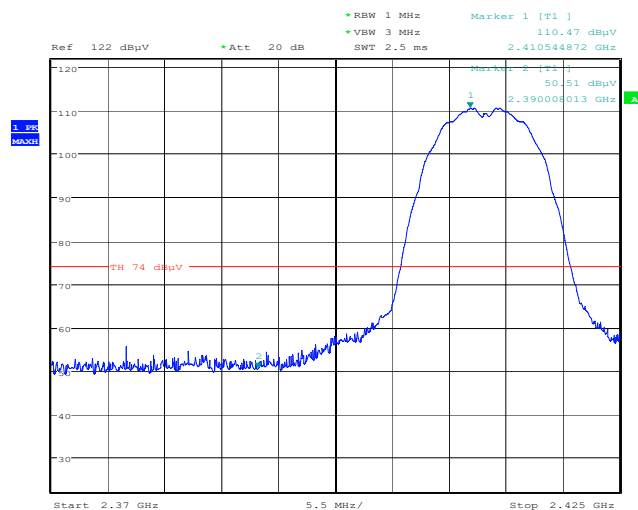


Date: 31.AUG.2020 09:14:56

RESULT: PASS

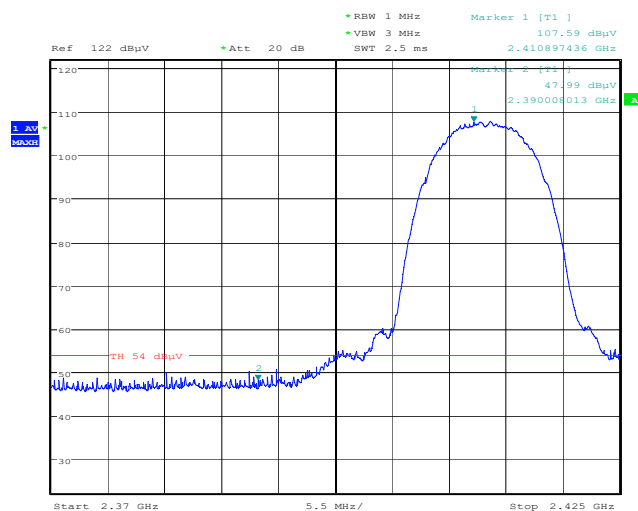
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

PK



Date: 31.AUG.2020 08:57:13

AV

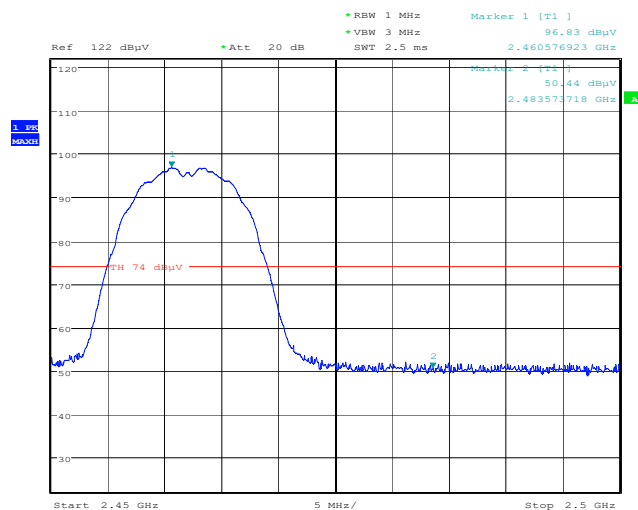


Date: 31.AUG.2020 08:58:05

RESULT: PASS

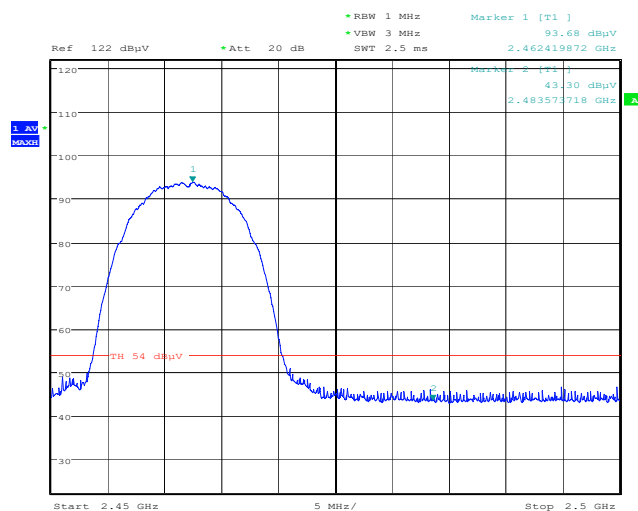
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PK



Date: 31.AUG.2020 09:19:19

AV

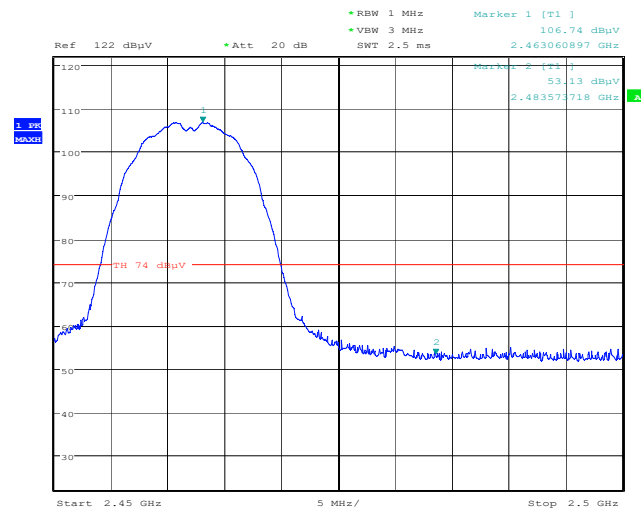


Date: 31.AUG.2020 09:18:55

RESULT: PASS

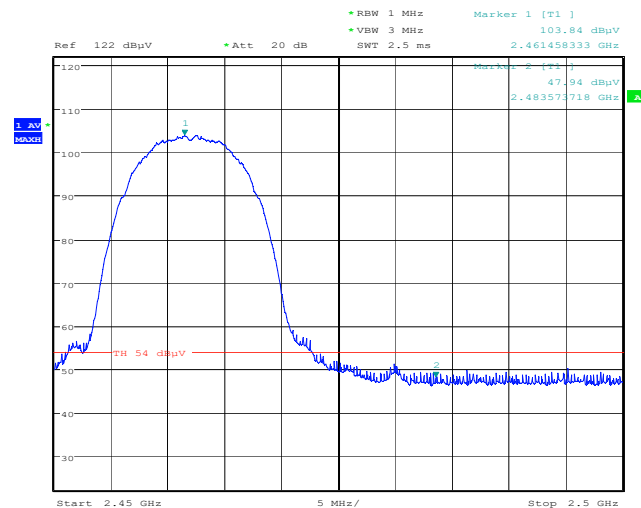
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

PK



Date: 31.AUG.2020 09:07:49

AV

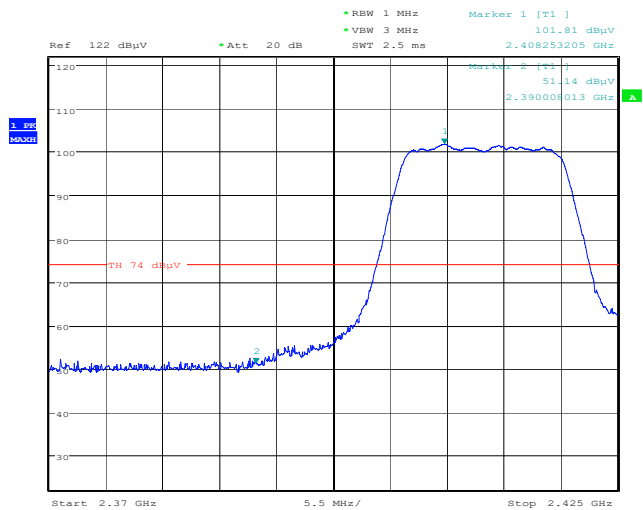


Date: 31.AUG.2020 09:05:32

RESULT: PASS

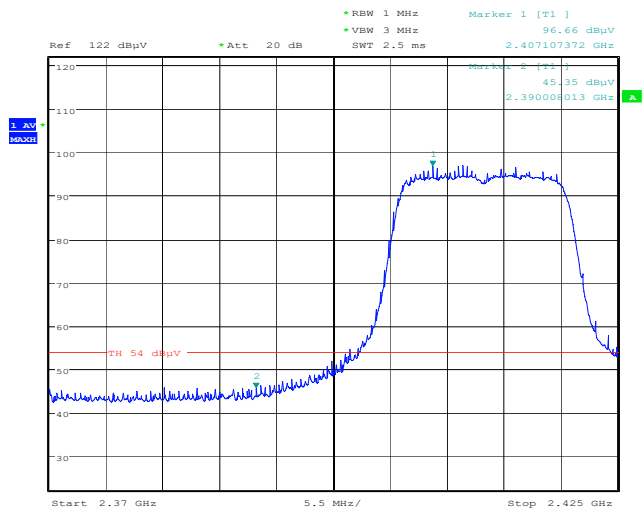
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PK



Date: 31.AUG.2020 09:16:13

AV

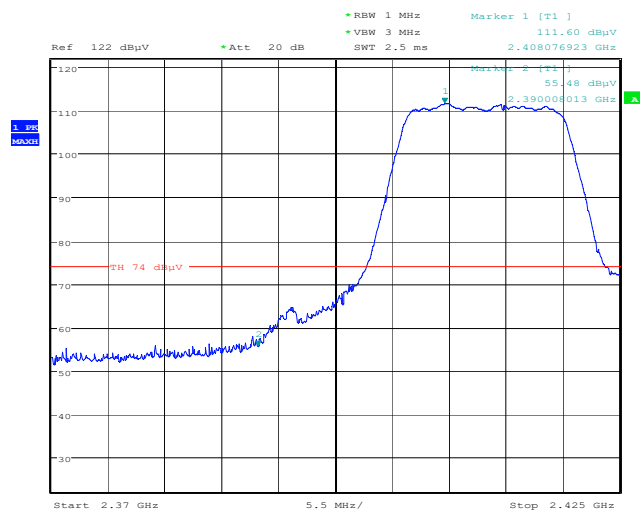


Date: 31.AUG.2020 09:15:42

RESULT: PASS

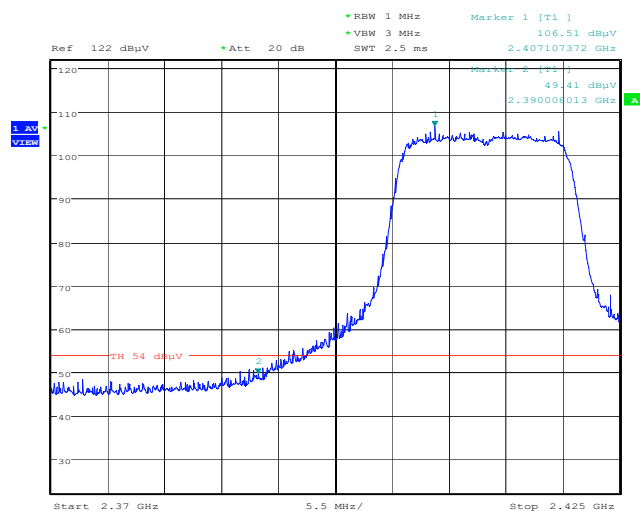
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

PK



Date: 31.AUG.2020 09:00:40

AV

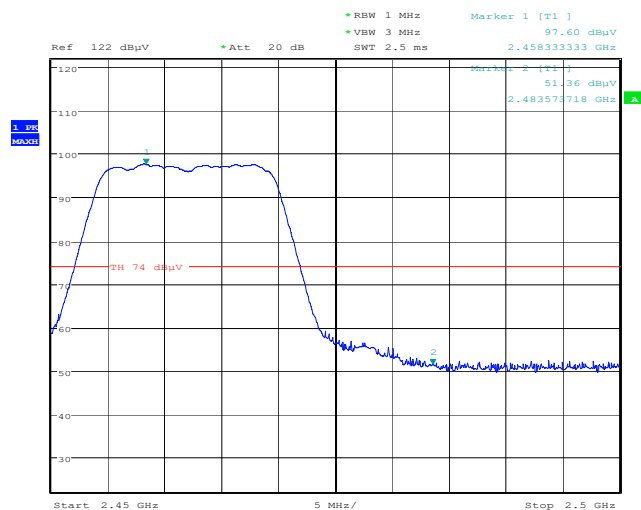


Date: 31.AUG.2020 08:59:32

RESULT: PASS

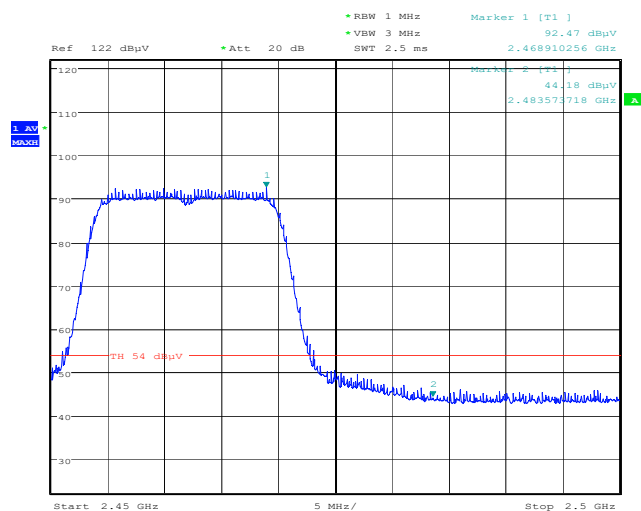
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



Date: 31.AUG.2020 09:20:28

AV

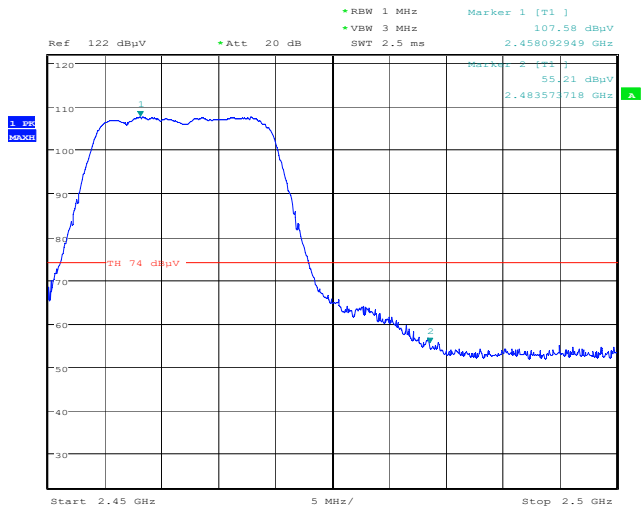


Date: 31.AUG.2020 09:21:17

RESULT: PASS

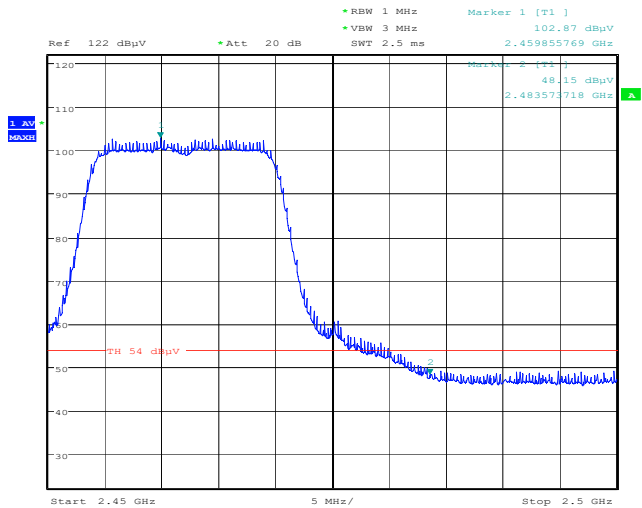
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

PK



Date: 31.AUG.2020 09:08:51

AV

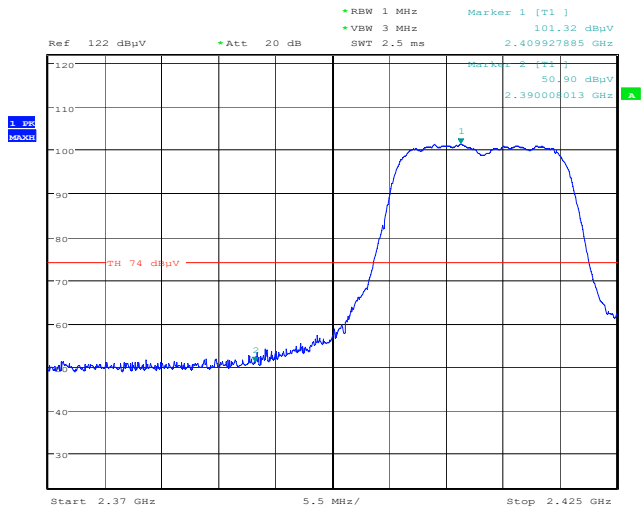


Date: 31.AUG.2020 09:09:31

RESULT: PASS

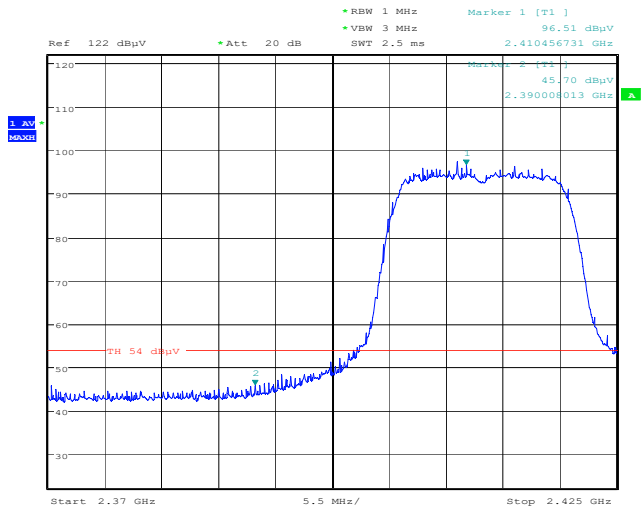
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



Date: 31.AUG.2020 09:17:10

AV

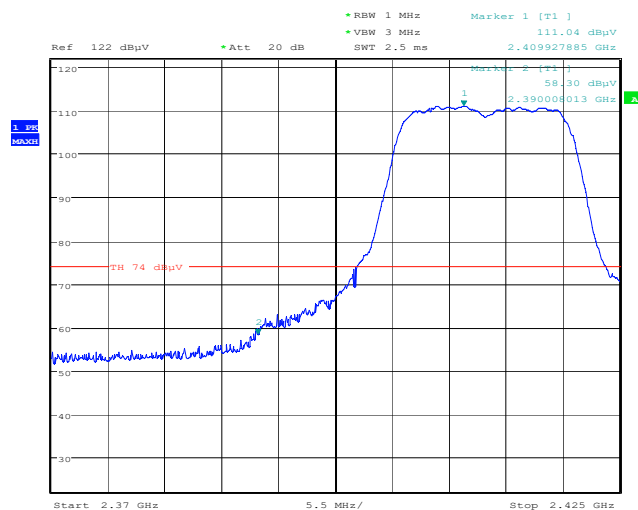


Date: 31.AUG.2020 09:17:39

RESULT: PASS

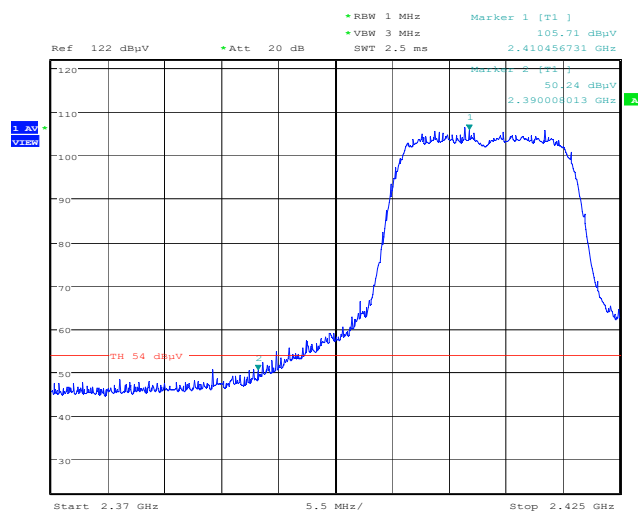
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK



Date: 31.AUG.2020 09:01:55

AV

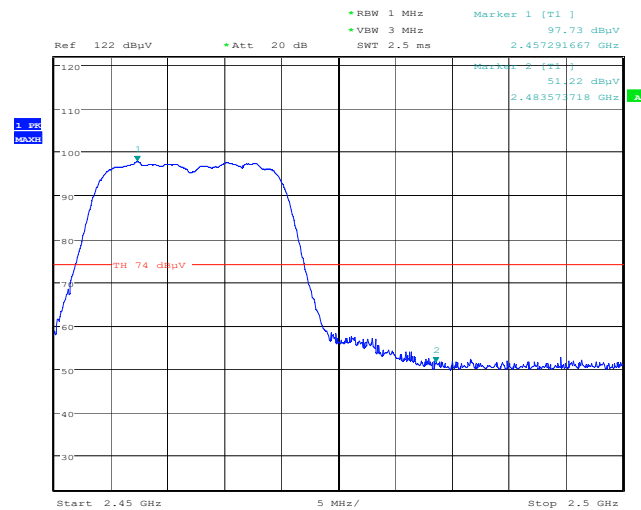


Date: 31.AUG.2020 09:02:47

RESULT: PASS

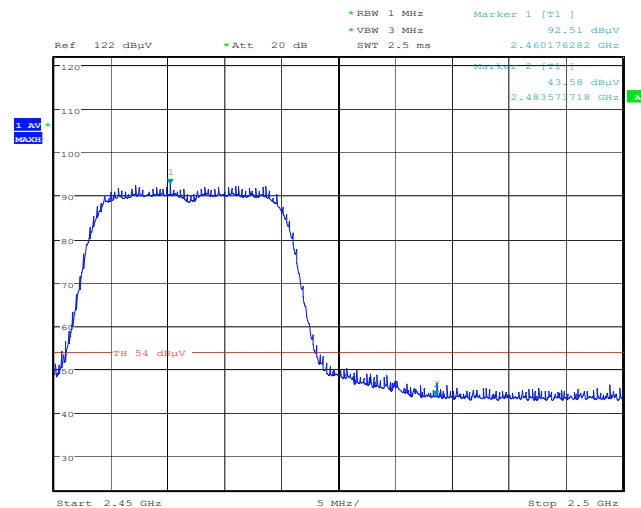
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

PK



Date: 31.AUG.2020 09:22:46

AV

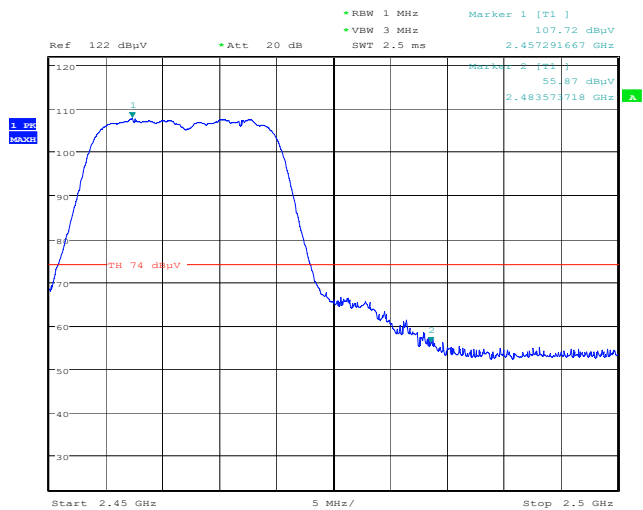


Date: 31.AUG.2020 09:21:52

RESULT: PASS

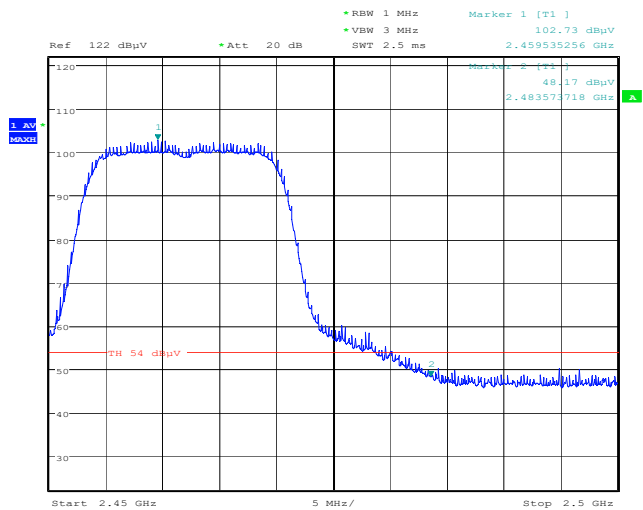
EUT	Smart Multi-color Table Lamp	Model Name	KT-T03AWU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

PK



Date: 31.AUG.2020 09:10:58

AV



Date: 31.AUG.2020 09:10:07

RESULT: PASS

13. FCC LINE CONDUCTED EMISSION TEST

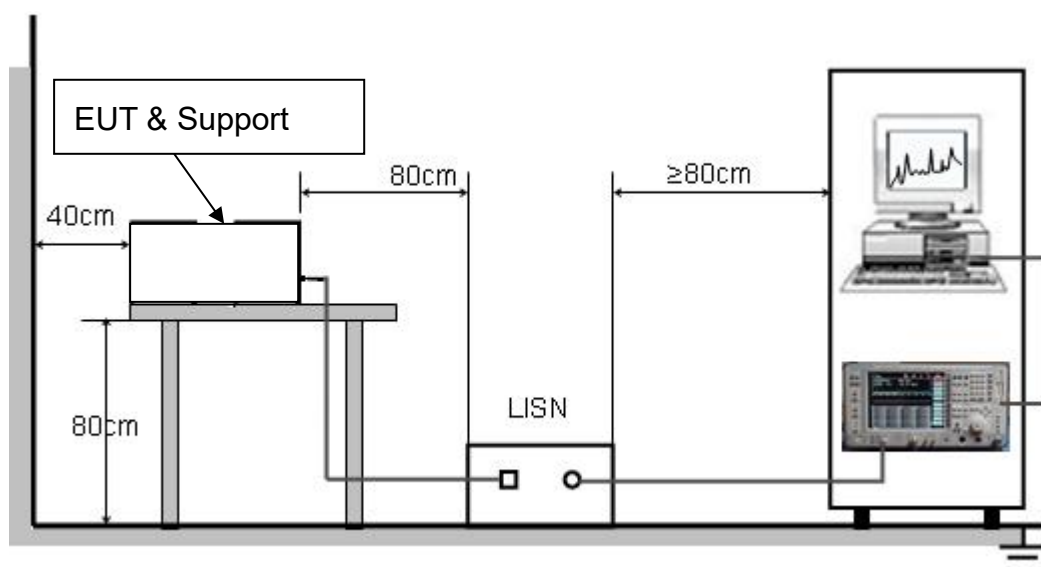
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

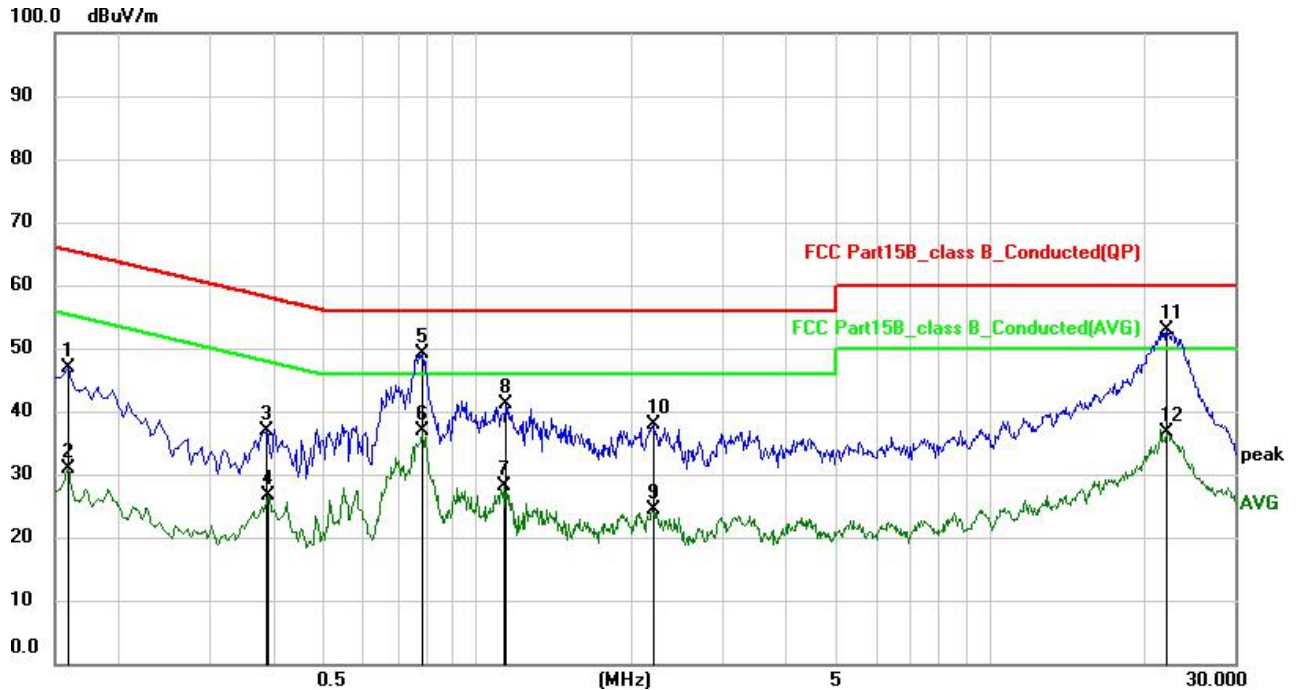
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

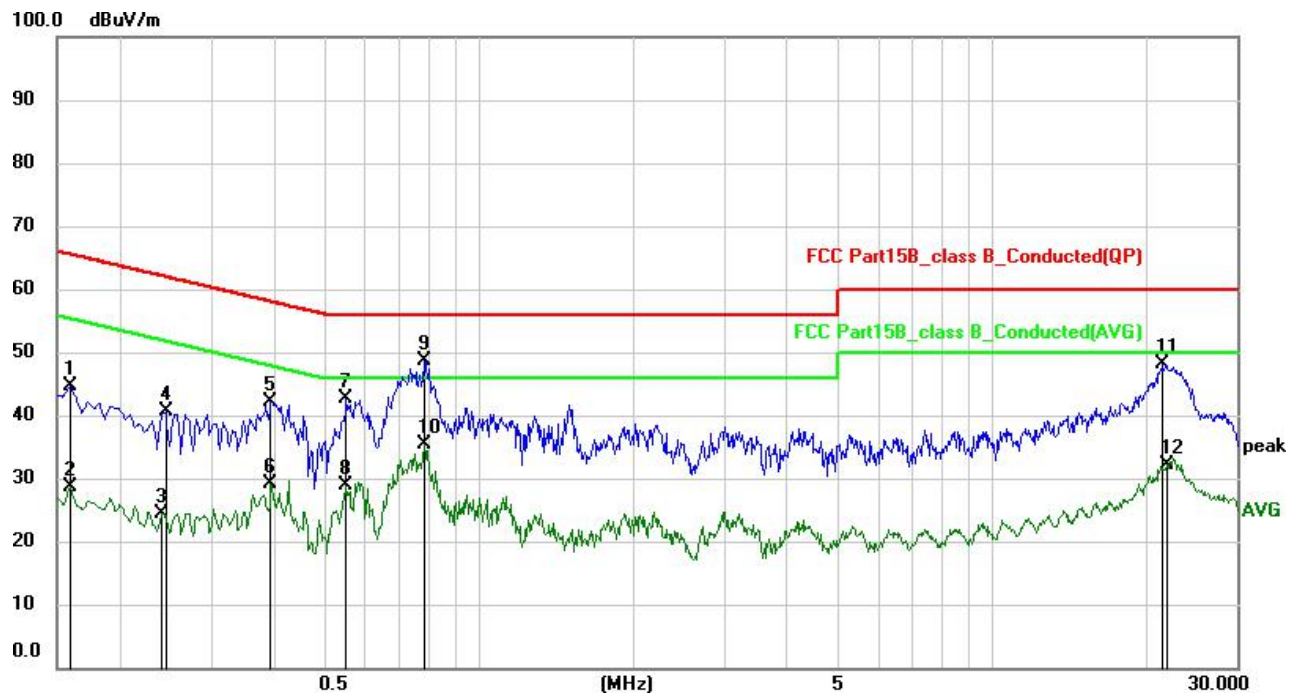
LINE CONDUCTED EMISSION TEST LINE 1-L



No. Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	0.1590	36.95	9.94	46.89	65.52	-18.63	QP	
2	0.1590	21.01	9.94	30.95	55.52	-24.57	AVG	
3	0.3885	26.84	9.92	36.76	58.10	-21.34	QP	
4	0.3930	16.72	9.92	26.64	48.00	-21.36	AVG	
5 *	0.7799	39.07	9.95	49.02	56.00	-6.98	QP	
6	0.7799	26.83	9.95	36.78	46.00	-9.22	AVG	
7	1.1264	18.27	9.97	28.24	46.00	-17.76	AVG	
8	1.1400	31.14	9.98	41.12	56.00	-14.88	QP	
9	2.1929	14.31	10.04	24.35	46.00	-21.65	AVG	
10	2.2064	27.83	10.04	37.87	56.00	-18.13	QP	
11	22.1595	39.84	13.00	52.84	60.00	-7.16	QP	
12	22.1595	23.51	13.00	36.51	50.00	-13.49	AVG	

RESULT: PASS

Line Conducted Emission Test Line 2-N



No. Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	0.1590	34.64	9.93	44.57	65.52	-20.95	QP	
2	0.1590	18.68	9.93	28.61	55.52	-26.91	AVG	
3	0.2404	14.45	9.90	24.35	52.08	-27.73	AVG	
4	0.2445	30.63	9.90	40.53	61.94	-21.41	QP	
5	0.3930	32.32	9.93	42.25	58.00	-15.75	QP	
6	0.3930	19.30	9.93	29.23	48.00	-18.77	AVG	
7	0.5503	32.61	9.94	42.55	56.00	-13.45	QP	
8	0.5503	18.88	9.94	28.82	46.00	-17.18	AVG	
9 *	0.7799	38.74	9.96	48.70	56.00	-7.30	QP	
10	0.7799	25.43	9.96	35.39	46.00	-10.61	AVG	
11	21.5790	35.29	12.74	48.03	60.00	-11.97	QP	
12	22.0110	19.41	12.72	32.13	50.00	-17.87	AVG	

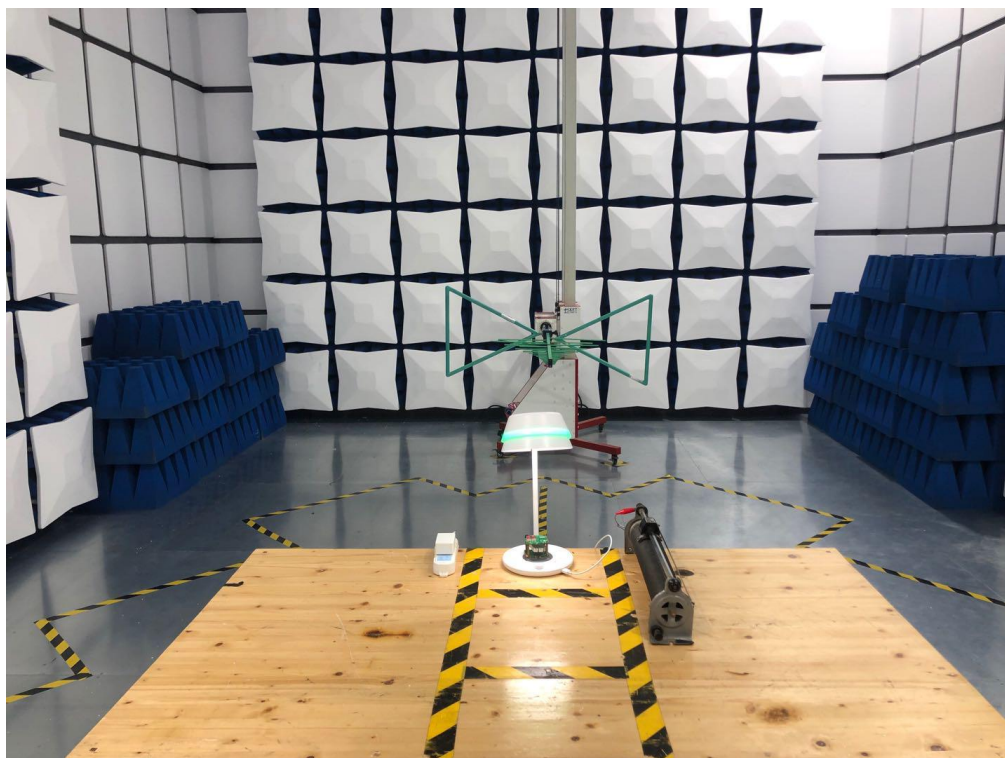
RESULT: PASS

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

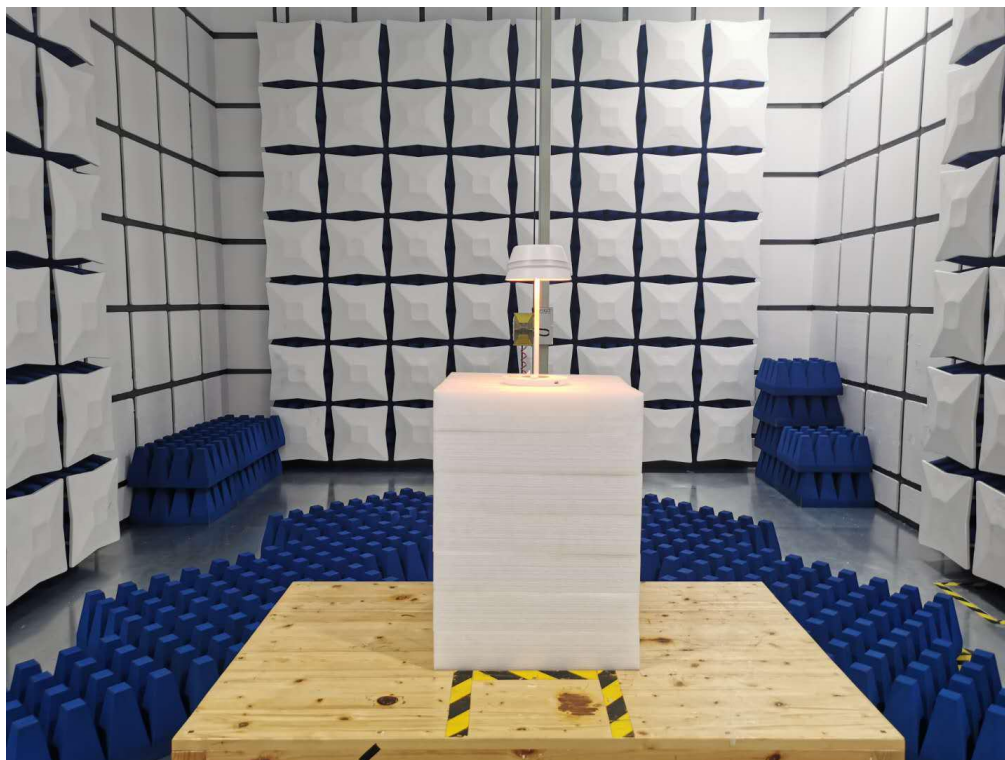
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



----END OF REPORT----