

# CTC Laboratories, Inc.

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Report No. ..... CTC20210159E03

FCC ID...... 2AK29-DS2011

IC...... 22393-DS2011

Applicant-----: Deako Inc.

Address------ 4201 Roosevelt Way NE Suite 100 Seattle WA 98105 United

States

Manufacturer ...... Deako Inc.

Address------ 4201 Roosevelt Way NE Suite 100 Seattle WA 98105 United

States

Product Name ...... Master Smart Dimmer

Trade Mark-----: /

Model/Type reference······ DS2011

Listed Model(s) · · · · · /

Standard FCC CFR Title 47 Part 15 Subpart C Section 15.247

**RSS 247 Issue 2** 

Date of receipt of test sample...: Feb. 23, 2021

Date of testing...... Apr. 12, 2021 to Apr. 28, 2021

Date of issue...... Apr. 28, 2021

Result..... PASS

Compiled by:

(Printed name+signature) Jim Jiang

Jim Jiang

Supervised by:

(Printed name+signature) Miller Ma

Miller Ma

Approved by:

(Printed name+signature) Walter Chen

water chis

Testing Laboratory Name.....: CTC Laboratories, Inc.

Shenzhen, Guangdong, China

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# **Table of Contents**

# **Page**

Report No.: CTC20210159E03

1. T	TEST SUMMARY	3
1.1.	. Test Standards	a
1.2.		
1.3.		
1.4.		
1.5.		
1.6.		
2. G	GENERAL INFORMATION	
2.1.	. CLIENT INFORMATION	6
2.2.	. GENERAL DESCRIPTION OF EUT	6
2.3.	. Accessory Equipment Information	7
2.4.	. Operation State	8
2.5.	. MEASUREMENT INSTRUMENTS LIST	g
3. T	TEST ITEM AND RESULTS	11
3.1.		
3.2.		
3.3.		
3.4.	,	
3.5.		
3.6.		
3.7.		
3.8.	. Duty Cycle	94
2.0	ANTENNA DECUMPAGNIT	100

Page 3 of 100

Report No.: CTC20210159E03



# 1. TEST SUMMARY

## 1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

RSS 247 Issue 2: Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTSs) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

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

# 1.2. Report Version

Revised No.	Date of issue	Description
01	Apr. 28, 2021	Original

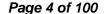
# 1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS 247 Issue 2					
Test Item	Standard	Section	Result	Test	
rest item	FCC	IC	Resuit	Engineer	
Antenna Requirement	15.203	/	Pass	Rod Luo	
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Rod Luo	
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	RSS 247 5.5	Pass	Rod Luo	
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS 247 5.5	Pass	Rod Luo	
6dB Bandwidth	15.247(a)(2)	RSS 247 5.2 (a)	Pass	Rod Luo	
Conducted Max Output Power	15.247(b)(3)	RSS 247 5.4 (d)	Pass	Rod Luo	
Power Spectral Density	15.247(e)	RSS 247 5.2 (b)	Pass	Rod Luo	
Transmitter Radiated Spurious	15.209&15.247(d)	RSS 247 5.5& RSS-Gen 8.9	Pass	Rod Luo	

#### Note:

- 1. The measurement uncertainty is not included in the test result.
- 2. The test data except AC conducted emission and Radiated emission below 1GHz refer to CTC20210158E03(FCC ID: 2AK29-DS2010, IC: 22393-DS2010). The EUT wireless module, antenna, PCB layout and electrical circuit are the same. Output power were checked and found exactly same as the previous result. The difference is the product name and model number.







# 1.4. Test Facility

#### CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

#### **Laboratory accreditation**

The test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-Lab Code: L5365**

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

## A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

## FCC (Registration No.: 951311, Designation Number CN1208)

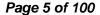
CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug. 26, 2017.

# 1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn





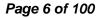
**Test Items Measurement Uncertainty** Notes Transmitter power conducted 0.42 dB (1) Transmitter power Radiated 2.14 dB (1) Conducted spurious emissions 9kHz~40GHz 1.60 dB (1) Radiated spurious emissions 9kHz~40GHz 2.20 dB (1) Conducted Emissions 9kHz~30MHz 3.08 dB (1) Radiated Emissions 30~1000MHz 4.51 dB (1) Radiated Emissions 1~18GHz 5.84 dB (1) Radiated Emissions 18~40GHz 6.12 dB (1) Occupied Bandwidth (1)

# 1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C~27°C
Relative Humidity:	40%~60%
Air Pressure:	101kPa

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.





# 2. GENERAL INFORMATION

# 2.1. Client Information

Applicant:	Deako Inc.
Address:	4201 Roosevelt Way NE Suite 100 Seattle WA 98105 United States
Manufacturer:	Deako Inc.
Address:	4201 Roosevelt Way NE Suite 100 Seattle WA 98105 United States

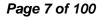
Report No.: CTC20210159E03

# 2.2. General Description of EUT

Product Name:	Master Smart Dimmer
Trade Mark:	/
Model/Type reference:	DS2011
Listed Model(s):	/
Model Difference:	/
Power supply:	AC120V 60Hz 150W
Adapter Model:	/
Hardware version:	V1.0
Software version:	V1.0
Sample number:	CTC210207-002-1-S0001
WIFI 802.11b/ g/ n(HT20)/	n(HT40)
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel number:	802.11b/g/n(HT20): 11 Channels 802.11n(HT40): 7 Channels
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	2dBi

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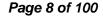


2.3. Accessory Equipment Information

Equipment Information						
Name	Model	S/N	Manufacturer			
Notebook	X220	/	Lenovo			
Cable Information	Cable Information					
Name	Shielded Type	Ferrite Core	Length			
USB Cable	Unshielded	NO	150cm			
Test Software Information						
Name	Software version	/	/			
ESP RF Test Tool	V2.6	/	/			

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2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20), CH 03~CH 09 for 802.11n(HT40)

#### **Data Rated**

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)	
802.11b	1Mbps	
802.11g	6Mbps	
802.11n(HT20)	HT-MCS0	
802.11n(HT40)	HT-MCS0	

#### Test mode

For RF test items:

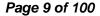
The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.





2.5. Measurement Instruments List

Tonsce	Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021	
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022	
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021	
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021	
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021	
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021	
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021	
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021	
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021	
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021	
11	300328 v2.2.2 test system	TONSCEND	v2.6	/	/	

Radiate	Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021	
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021	
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021	
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021	
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021	
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021	
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021	
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021	
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021	
10	Antenna Mast	UC	UC3000	N/A	N/A	
11	Turn Table	UC	UC3000	N/A	N/A	
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021	
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX 102	DA1580	Dec. 25, 2021	
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021	
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021	
16	RF Connection Cable	Chengdu E-Microwave			Dec. 25, 2021	
17	High pass filter	Compliance	BSU-6	34202	Dec. 25, 2021	

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# Page 10 of 100

		Direction systems			
18	Attenuator	Chengdu E-Microwave	EMCAXX-10 RNZ-3		Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Report No.: CTC20210159E03

Conduc	Conducted Emission											
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until							
1	LISN	R&S	ENV216	101112	Dec. 25, 2021							
2	LISN	R&S	ENV216	101113	Dec. 25, 2021							
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 25, 2021							

Note:1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.



## 3. TEST ITEM AND RESULTS

# 3.1. Conducted Emission

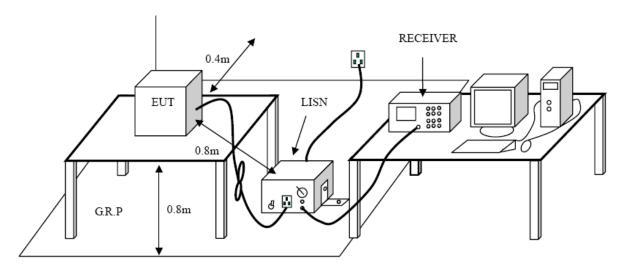
#### **Limit**

#### FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS - Gen 8.8:

Fraguency range (MHz)	Limit (dBuV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

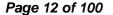
<sup>\*</sup> Decreases with the logarithm of the frequency.

# **Test Configuration**



### **Test Procedure**

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.

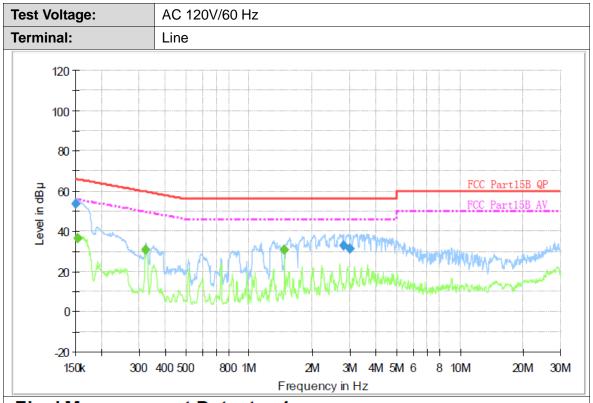




**Test Mode** 

Please refer to the clause 2.4.

## **Test Result**



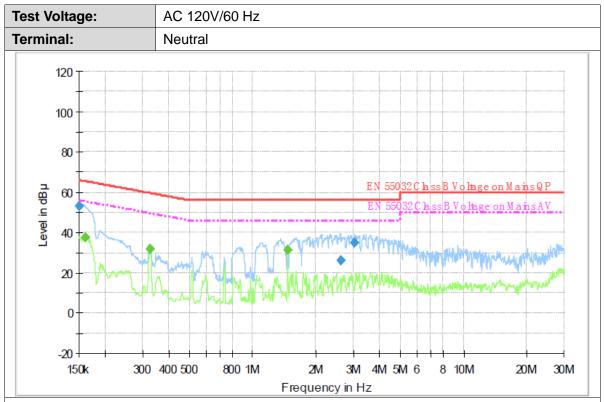
# **Final Measurement Detector 1**

	Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
Ī	0.150000	53.4	1000.00	9.000	On	L1	10.4	12.6	66.0	
	2.798360	32.9	1000.00	9.000	On	L1	10.4	23.1	56.0	
	3.006840	31.1	1000.00	9.000	On	L1	10.4	24.9	56.0	

# Final Measurement Detector 2

	luency /IHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.1	153640	36.6	1000.00	9.000	On	L1	10.4	19.2	55.8	
0.3	322820	30.9	1000.00	9.000	On	L1	10.4	18.7	49.6	
1.4	465690	30.9	1000.00	9.000	On	L1	10.4	15.1	46.0	

Emission Level= Read Level+ Correct Factor



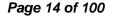
# **Final Measurement Detector 1**

	Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
Ī	0.150000	53.3	1000.00	9.000	On	N	10.7	12.7	66.0	
	2.604330	26.3	1000.00	9.000	On	N	10.7	29.7	56.0	
	3.043060	35.2	1000.00	9.000	On	N	10.7	20.8	56.0	

# Final Measurement Detector 2

	Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
ſ	0.161180	37.3	1000.00	9.000	On	N	10.7	18.1	55.4	
	0.324110	31.6	1000.00	9.000	On	N	10.7	18.0	49.6	
	1.465690	31.1	1000.00	9.000	On	N	10.7	14.9	46.0	

Emission Level= Read Level+ Correct Factor





# 3.2. Radiated Emission

### <u>Limit</u>

## FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS - Gen 8.9

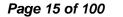
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Fraguesou (MLIT)	dB(uV/m) (at 3 meters)				
Frequency (MHz)	Peak	Average			
Above 1000	74	54			

#### Note:

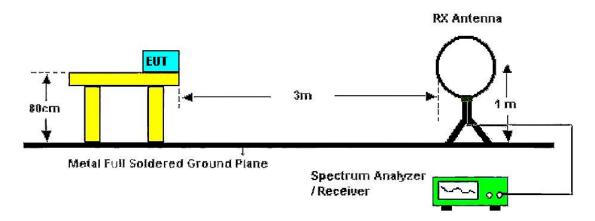
- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

## **Test Configuration**

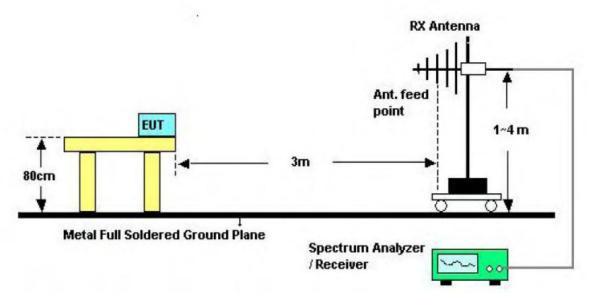






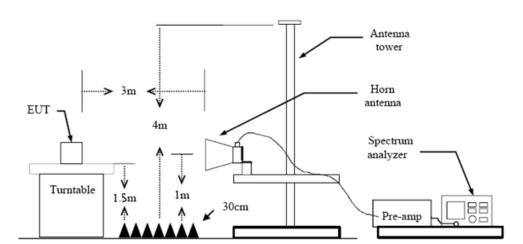


Below 30MHz Test Setup



30-1000MHz Test Setup





Above 1GHz Test Setup

#### **Test Procedure**

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the quidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
- (1) Span shall wide enough to fully capture the emission being measured;
- (2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10<sup>th</sup> harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW≥1/T Peak detector for Average value.

Note 1: For the 1/T& Duty Cycle please refer to clause 3.8 Duty Cycle.

#### **Test Mode**

Please refer to the clause 2.4.

#### **Test Result**

#### 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



### 30MHz-1GHz

	. Pol.			Horizontal								
	t Mode:			TX Mode								
Rer	mark:		Only wo	orse case is reported								
80.0	0 dBuV/m											
30	No Marine	/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,,/y/ <sup>1</sup> / <sup>1</sup> / <sub>1</sub>	FCC Part15 RE-Class B 30-1000M Margin - 6 dB								
-20												
30	0.000 40	50 60	70 80	(MHz) 300 400 500 600 700 1000.00								

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	155.7766	-14.49	52.04	37.55	43.50	-5.95	QP
2	167.7400	-14.72	53.18	38.46	43.50	-5.04	QP
3	264.0932	-15.64	55.34	39.70	46.00	-6.30	QP
4	288.0199	-14.79	53.48	38.69	46.00	-7.31	QP
5	369.8233	-12.58	50.96	38.38	46.00	-7.62	QP
6	851.9133	-2.26	42.31	40.05	46.00	-5.95	QP

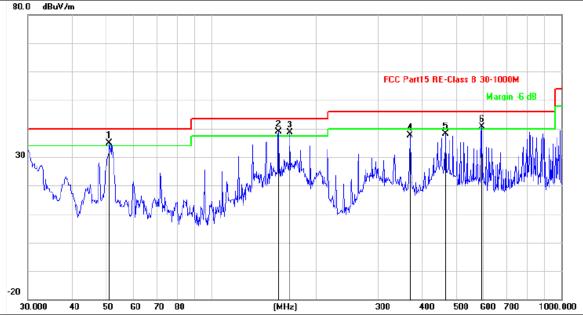
### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Vertical **Test Mode:** TX Mode Remark: Only worse case is reported 80.0 dBuV/m

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	51.3400	-14.71	49.67	34.96	40.00	-5.04	QP
2	156.0997	-14.50	53.34	38.84	43.50	-4.66	QP
3	168.0630	-14.73	53.29	38.56	43.50	-4.94	QP
4	369.8233	-12.58	50.21	37.63	46.00	-8.37	QP
5	468.1166	-10.10	48.16	38.06	46.00	-7.94	QP
6	594.2164	-6.85	47.52	40.67	46.00	-5.33	QP

### Remarks:

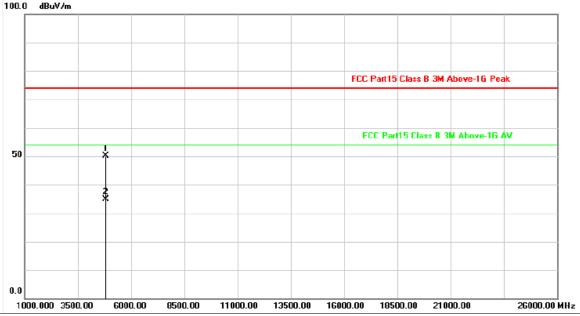
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



#### Adobe 1GHz

Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.
100.0 dBuV/m	

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	4823.782	-2.76	52.79	50.03	74.00	-23.97	peak
2	4824.206	-2.76	37.65	34.89	54.00	-19.11	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

21000.00

26000.00 MHz



Test Mode:

TX B Mode 2412MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part 15 Class B 3M Above-16 Peak

FCC Part 15 Class B 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.922	-2.76	54.28	51.52	74.00	-22.48	peak
2	4824.032	-2.76	38.96	36.20	54.00	-17.80	AVG

13500.00

### Remarks:

0.0

1000.000 3500.00

6000.00

8500.00

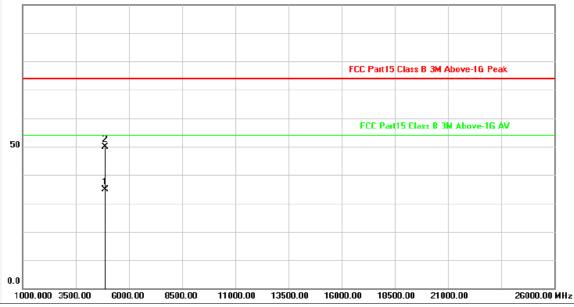
11000.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Horizontal **Test Mode:** TX B Mode 2437MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.774	-2.61	37.61	35.00	54.00	-19.00	AVG
2	4874.208	-2.61	52.47	49.86	74.00	-24.14	peak

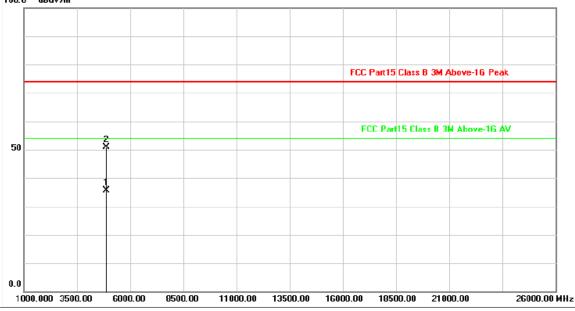
## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Vertical **Test Mode:** TX B Mode 2437MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4874.048	-2.61	38.13	35.52	54.00	-18.48	AVG
2	4874.124	-2.61	53.48	50.87	74.00	-23.13	peak

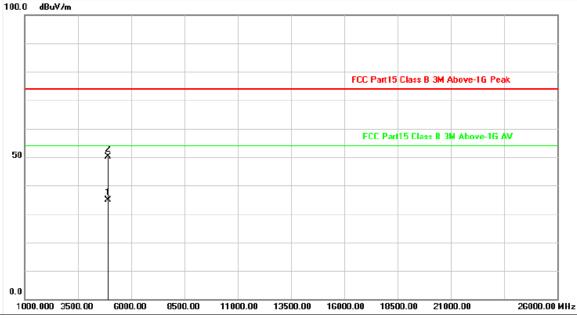
### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Horizontal **Test Mode:** TX B Mode 2462MHz Remark: No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210159E03



No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	ı	Margin (dB)	Detector
1	4923.794	-2.47	37.33	34.86	54.00	-19.14	AVG
2	4923.890	-2.47	52.68	50.21	74.00	-23.79	peak

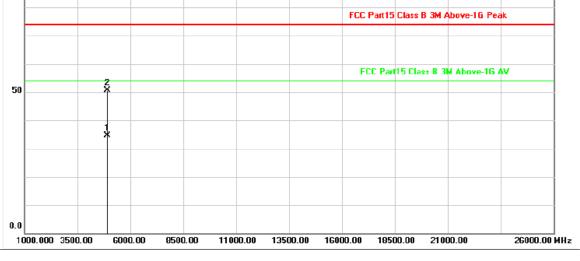
### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Vertical **Test Mode:** TX B Mode 2462MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m FCC Part15 Class B 3M Above-16 Peak

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	I	Margin (dB)	Detector
1	4924.055	-2.47	37.12	34.65	54.00	-19.35	AVG
2	4924.106	-2.47	53.16	50.69	74.00	-23.31	peak

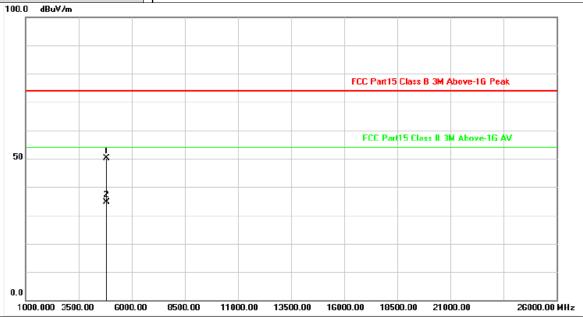
### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Horizontal **Test Mode:** TX G Mode 2412MHz Remark: No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	4823.874	-2.76	52.95	50.19	74.00	-23.81	peak
2	4824.344	-2.76	37.44	34.68	54.00	-19.32	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



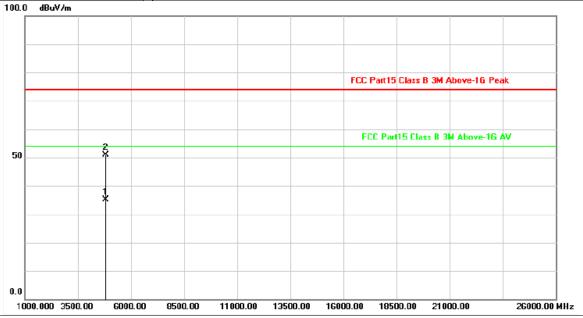
Ant. Pol.

Vertical

Test Mode: TX G Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.956	-2.76	37.78	35.02	54.00	-18.98	AVG
2	4824.106	-2.76	53.76	51.00	74.00	-23.00	peak

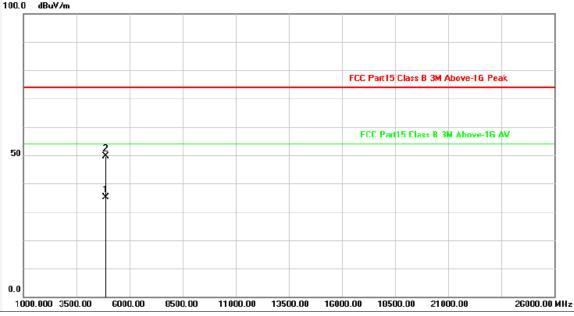
## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Horizontal **Test Mode:** TX G Mode 2437MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	4874.072	-2.61	37.64	35.03	54.00	-18.97	AVG
2	4874.124	-2.61	52.29	49.68	74.00	-24.32	peak

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

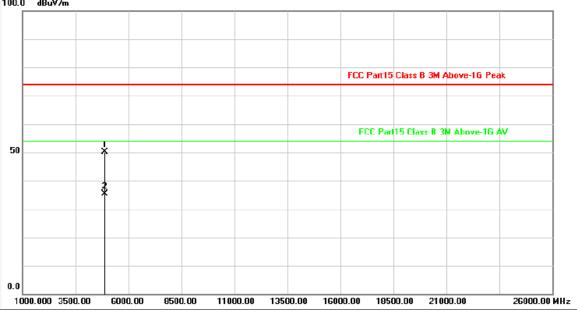
2.Margin value = Level -Limit value

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Ant. Pol. Vertical **Test Mode:** TX G Mode 2437MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	ı	Margin (dB)	Detector
1	4873.876	-2.61	52.81	50.20	74.00	-23.80	peak
2	4874.022	-2.61	38.06	35.45	54.00	-18.55	AVG

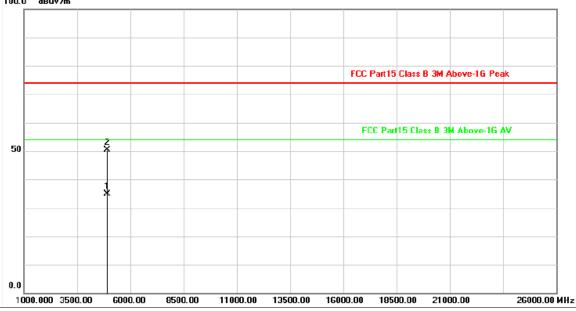
### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Horizontal **Test Mode:** TX G Mode 2462MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.870	-2.47	37.25	34.78	54.00	-19.22	AVG
2	4924.128	-2.47	52.78	50.31	74.00	-23.69	peak

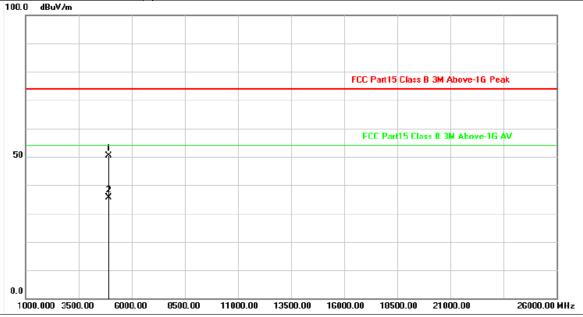
#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Vertical **Test Mode:** TX G Mode 2462MHz Remark: No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210159E03

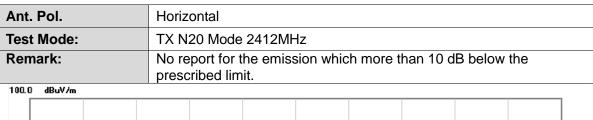


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.894	-2.47	52.83	50.36	74.00	-23.64	peak
2	4924.120	-2.47	37.99	35.52	54.00	-18.48	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	4823.710	-2.76	52.99	50.23	74.00	-23.77	peak
2	4824.206	-2.76	37.52	34.76	54.00	-19.24	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.

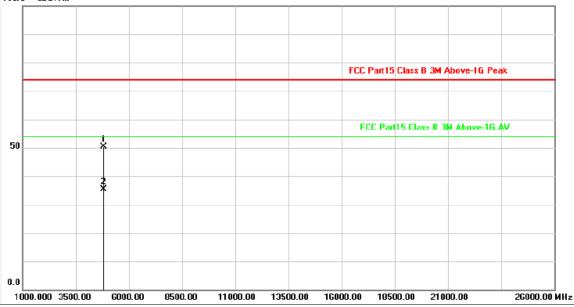
Test Mode:

TX N20 Mode 2412MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210159E03

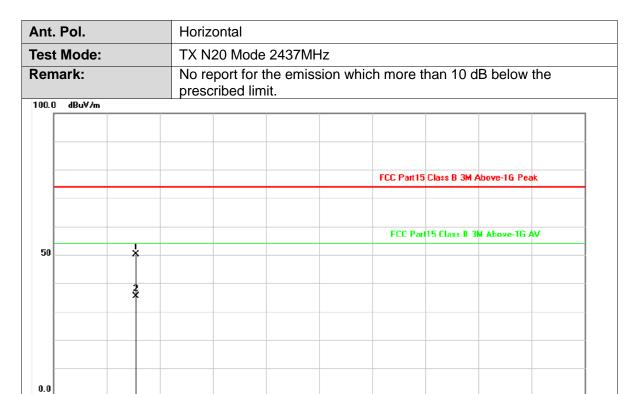


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	4823.864	-2.76	53.05	50.29	74.00	-23.71	peak
2	4824.128	-2.76	38.11	35.35	54.00	-18.65	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4874.142	-2.61	52.66	50.05	74.00	-23.95	peak
2	4874.164	-2.61	37.89	35.28	54.00	-18.72	AVG

13500.00

11000.00

18500.00

16000.00

21000.00

26000.00 MHz

### Remarks:

1000.000 3500.00

6000.00

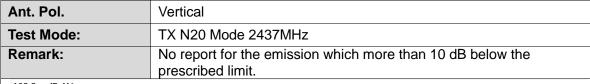
8500.00

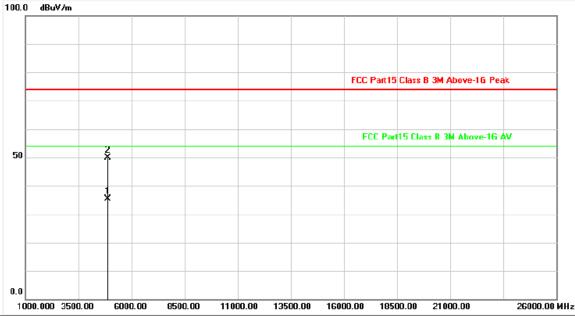
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4874.070	-2.61	37.87	35.26	54.00	-18.74	AVG
2	4874.272	-2.61	52.59	49.98	74.00	-24.02	peak

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.

Test Mode:

TX N20 Mode 2462MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part 15 Class B 3M Above-16 Peak

FCC Part 15 Class B 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	4923.905	-2.47	38.59	36.12	54.00	-17.88	AVG
2	4924.238	-2.47	53.48	51.01	74.00	-22.99	peak

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

#### Remarks:

0.0

1000.000 3500.00

6000.00

8500.00

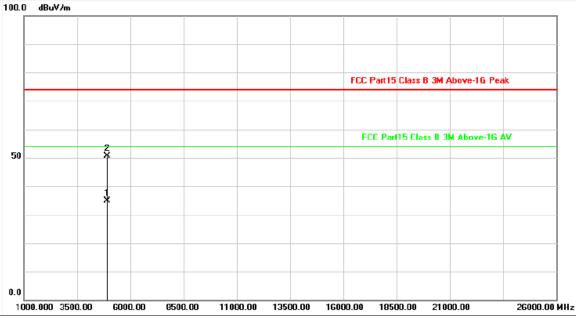
11000.00

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant. Pol. Vertical **Test Mode:** TX N20 Mode 2462MHz Remark: No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210159E03

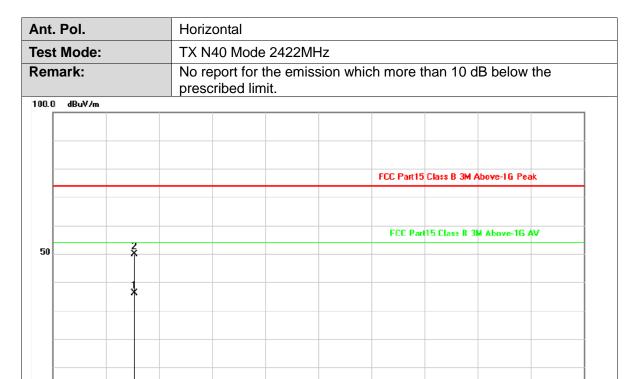


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	I	Margin (dB)	Detector
1	4924.026	-2.47	37.26	34.79	54.00	-19.21	AVG
2	4924.108	-2.47	53.18	50.71	74.00	-23.29	peak

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	ı	Margin (dB)	Detector
1	4843.792	-2.70	38.73	36.03	54.00	-17.97	AVG
2	4844.022	-2.70	52.54	49.84	74.00	-24.16	peak

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

### Remarks:

0.0

1000.000 3500.00

6000.00

8500.00

11000.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Test Mode: TX N40 Mode 2422MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part 15 Class B 3M Above-16 Peak

50 FCC Part 15 Class B 3M Above-16 AV

No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	4844.126	-2.70	37.80	35.10	54.00	-18.90	AVG
2	4844.234	-2.70	52.56	49.86	74.00	-24.14	peak

13500.00

18500.00

21000.00

26000.00 MHz

### Remarks:

1000.000 3500.00

6000.00

8500.00

11000.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



26000.00 MHz



Ant. Pol. Horizontal **Test Mode:** TX N40 Mode 2437MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m FCC Part15 Class B 3M Above-1G Peak FCC Part15 Class B 3M Above-1G AV 50

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.798	-2.61	37.50	34.89	54.00	-19.11	AVG
2	4874.130	-2.61	52.74	50.13	74.00	-23.87	peak

13500.00

16000.00

18500.00

21000.00

### Remarks:

0.0

1000.000 3500.00

6000.00

8500.00

11000.00

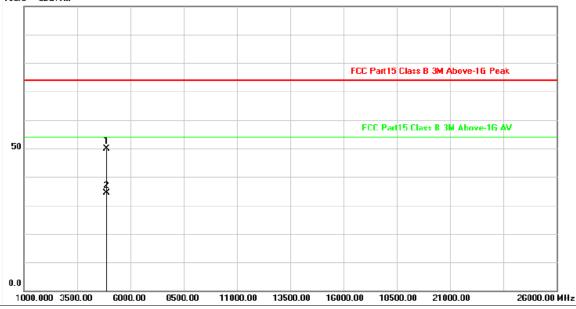
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol. Vertical **Test Mode:** TX N40 Mode 2437MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	ı	Margin (dB)	Detector
1	4873.870	-2.61	52.48	49.87	74.00	-24.13	peak
2	4874.134	-2.61	36.98	34.37	54.00	-19.63	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Test Mode:
TX N40 Mode 2452MHz

Remark:
No report for the emission which more than 10 dB below the prescribed limit.

FCC Part 15 Class B 3M Above-16 Peak

FCC Part 15 Class B 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4903.894	-2.53	37.41	34.88	54.00	-19.12	AVG
2	4904.092	-2.53	52.60	50.07	74.00	-23.93	peak

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

#### Remarks:

0.0

1000.000 3500.00

6000.00

8500.00

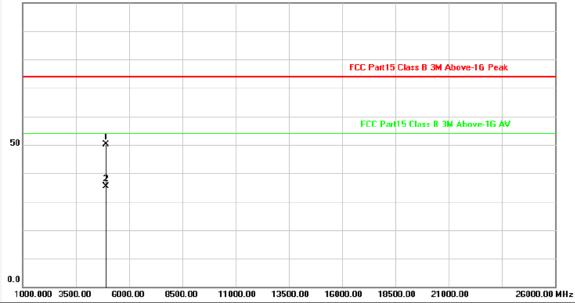
11000.00

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant. Pol. Vertical **Test Mode:** TX N40 Mode 2452MHz Remark: No report for the emission which more than 10 dB below the prescribed limit. 100.0 dBuV/m FCC Part15 Class B 3M Above-16 Peak

Report No.: CTC20210159E03



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4903.886	-2.53	52.67	50.14	74.00	-23.86	peak
2	4904.064	-2.53	37.83	35.30	54.00	-18.70	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



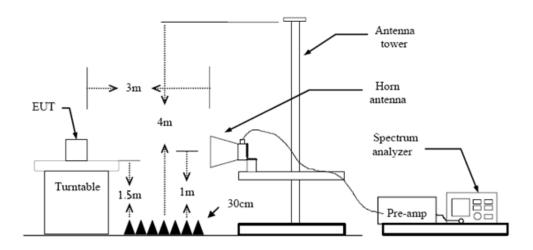
# 3.3. Band Edge Emissions (Radiated)

## **Limit**

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)/ RSS 247 5.5:

Restricted Frequency Band	(dBuV/m)(at 3m)				
(MHz)	Peak	Average			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

## **Test Configuration**



#### **Test Procedure**

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5. The receiver set as follow:
  - RBW=1MHz, VBW=3MHz Peak detector for Peak value.
  - RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

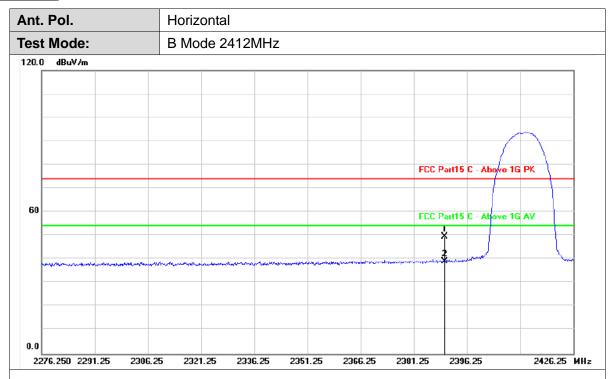
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.7 Duty Cycle.

### **Test Mode**

Please refer to the clause 2.4.



## **Test Results**



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	2390.000	30.84	18.85	49.69	74.00	-24.31	peak
2	2390.000	30.84	8.38	39.22	54.00	-14.78	AVG

## Remarks:

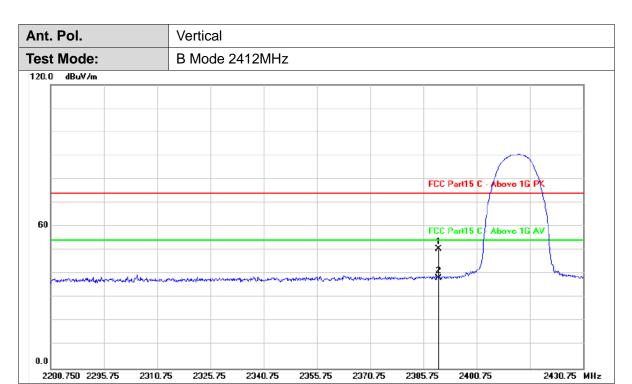
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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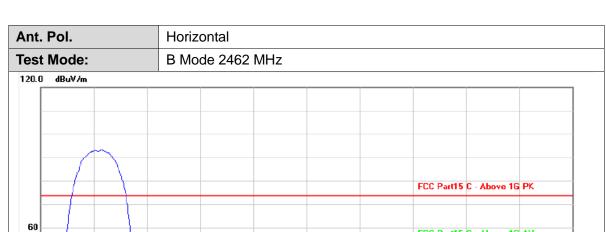


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	2390.000	30.84	19.59	50.43	74.00	-23.57	peak
2	2390.000	30.84	7.32	38.16	54.00	-15.84	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

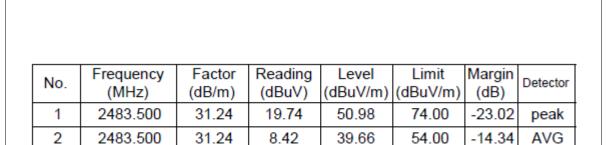




FCC Part15 C - Above 1G AV

2565.50

2595.50 MHz



2520.50

2535.50

2550.50

## Remarks:

0.0

2445.500 2460.50

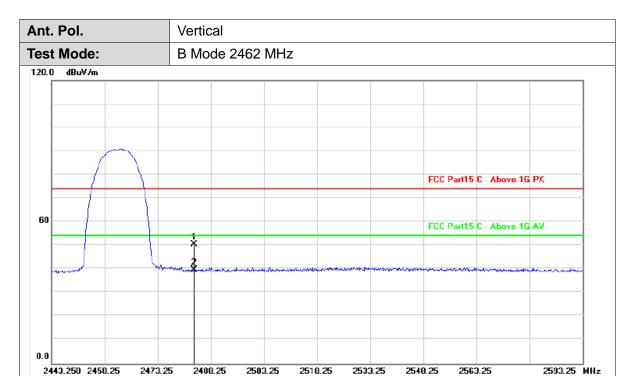
2475.50

2490.50

2505.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



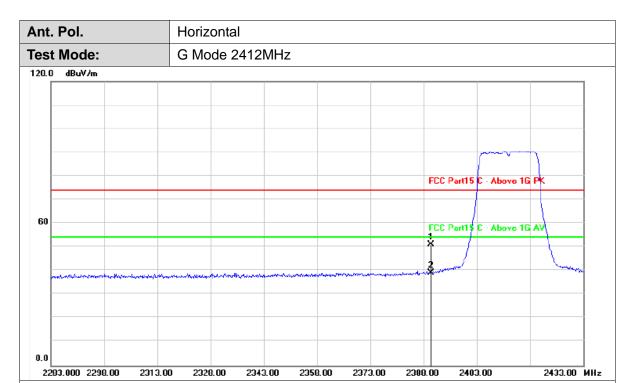


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	I	Margin (dB)	Detector
1	2483.500	31.24	19.35	50.59	74.00	-23.41	peak
2	2483.500	31.24	8.64	39.88	54.00	-14.12	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



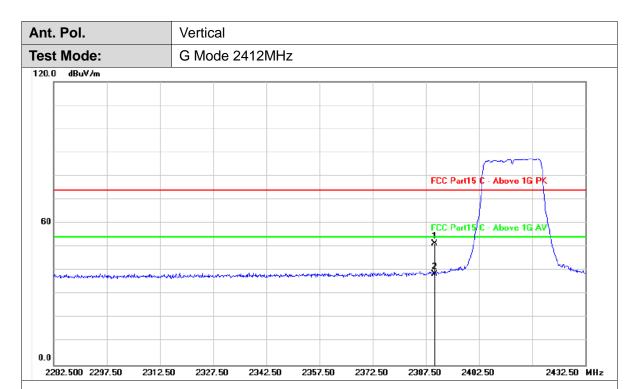


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	30.84	20.45	51.29	74.00	-22.71	peak
2	2390.000	30.84	8.28	39.12	54.00	-14.88	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



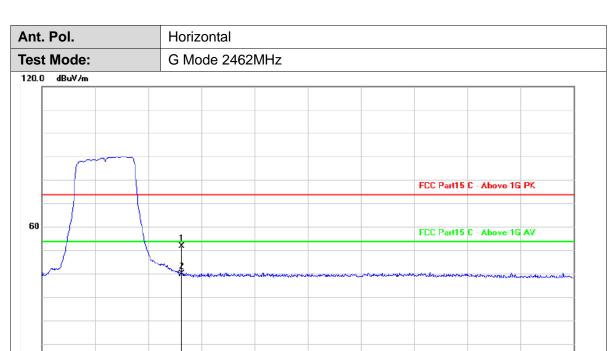


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	2390.000	30.84	20.48	51.32	74.00	-22.68	peak
2	2390.000	30.84	7.58	38.42	54.00	-15.58	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	ı	Margin (dB)	Detector
1	2483.500	31.24	21.02	52.26	74.00	-21.74	peak
2	2483.500	31.24	9.56	40.80	54.00	-13.20	AVG

2519.00

2534.00

2564.00

2594.00 MHz

#### Remarks:

0.0

2444.000 2459.00

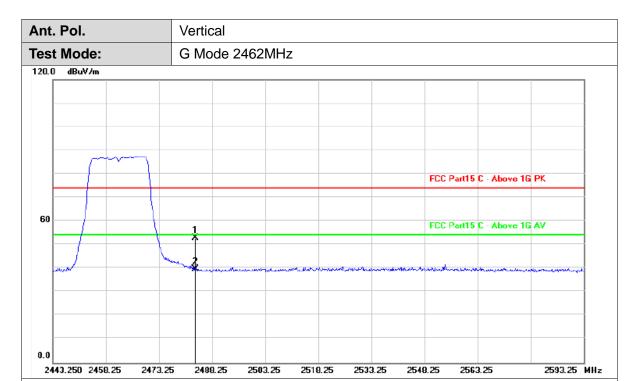
2474.00

2489.00

2504.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



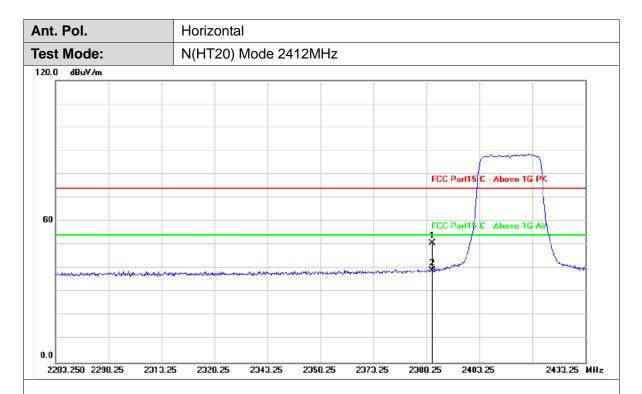


	No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	I	Margin (dB)	Detector
ŀ	1	2483.500	31.24	21.64	52.88	, ,	-21.12	peak
	2	2483.500	31.24	8.55	39.79	54.00	-14.21	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



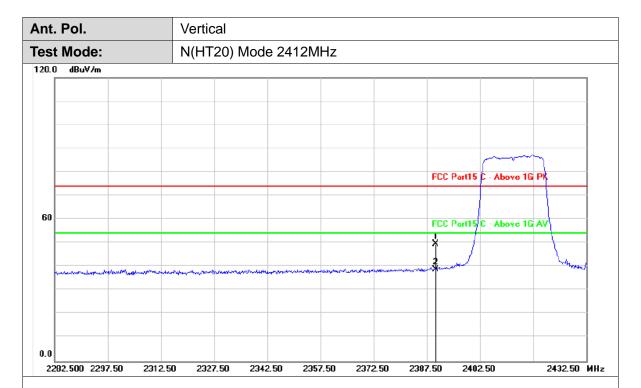


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.84	19.89	50.73	74.00	-23.27	peak
2	2390.000	30.84	8.31	39.15	54.00	-14.85	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



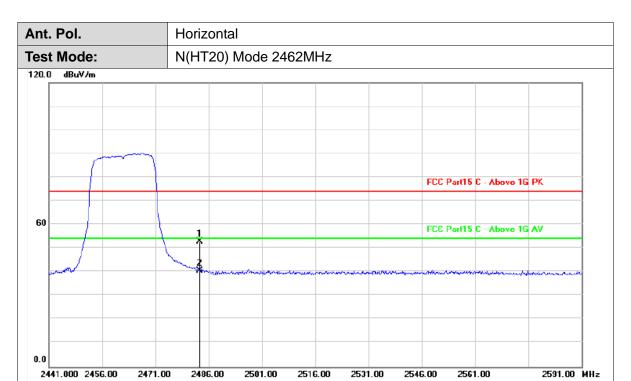


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	2390.000	30.84	18.80	49.64	74.00	-24.36	peak
2	2390.000	30.84	7.97	38.81	54.00	-15.19	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



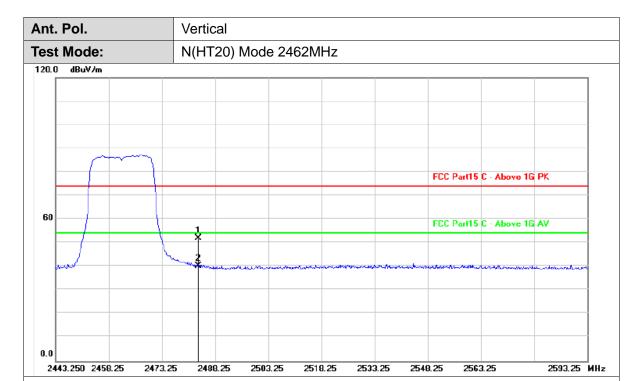


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	I	Margin (dB)	Detector
1	2483.500	31.24	21.76	53.00	74.00	-21.00	peak
2	2483.500	31.24	9.42	40.66	54.00	-13.34	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



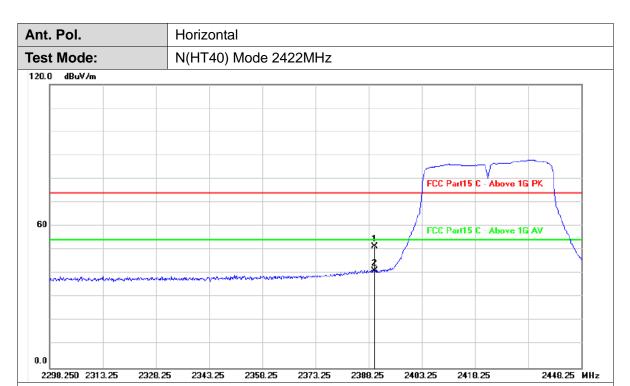


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	2483.500	31.24	20.78	52.02	74.00	-21.98	peak
2	2483.500	31.24	9.18	40.42	54.00	-13.58	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



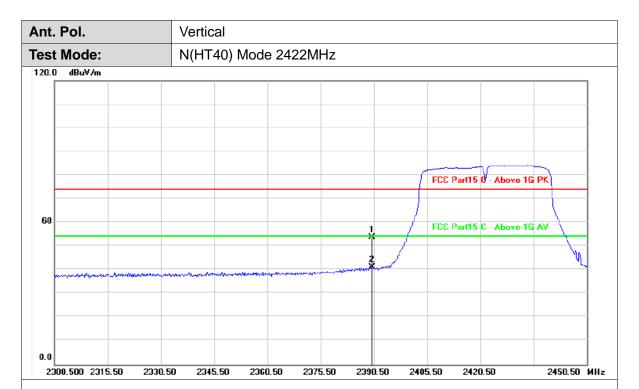


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	2390.000	30.84	20.61	51.45	74.00	-22.55	peak
2	2390.000	30.84	10.31	41.15	54.00	-12.85	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



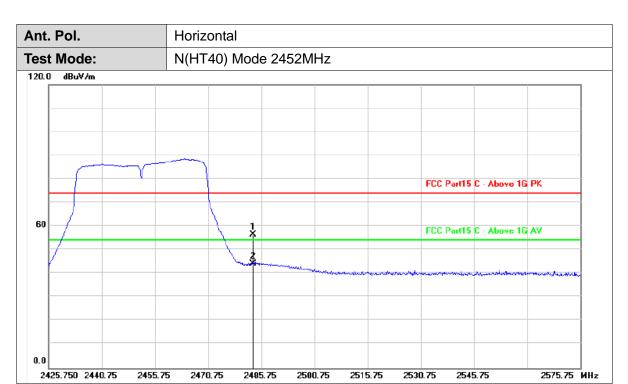


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	ı	Margin (dB)	Detector
1	2390.000	30.84	23.07	53.91	74.00	-20.09	peak
2	2390.000	30.84	10.28	41.12	54.00	-12.88	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



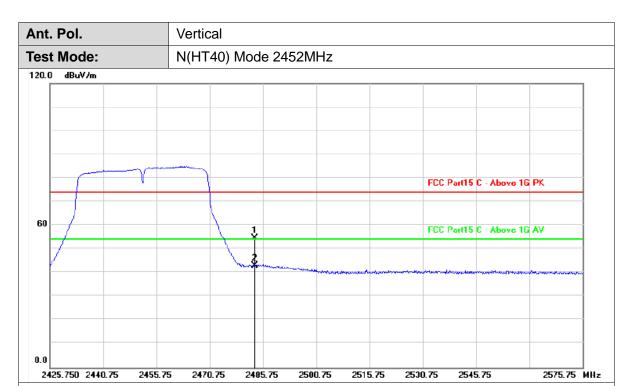


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	l	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.24	25.41	56.65	74.00	-17.35	peak
2	2483.500	31.24	13.02	44.26	54.00	-9.74	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	I	Margin (dB)	Detector
1	2483.500	31.24	23.61	54.85	74.00	-19.15	peak
2	2483.500	31.24	11.92	43.16	54.00	-10.84	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor