

CTC Laboratories, Inc.

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Report No.: CTC20231618E01

FCC ID-----: WNA-GN543V

Applicant·····: Shenzhen Skyworth Digital Technology Co.,LTD

14/F,Block A,Skyworth Building,Gaoxin Ave.1.S.,Nanshan Address-----:

District, Shenzhen, China

Manufacturer ·····: Shenzhen Skyworth Digital Technology Co.,LTD

14/F,Block A,Skyworth Building,Gaoxin Ave.1.S.,Nanshan Address....:

District, Shenzhen, China

Product Name·····: **GPON ONT**

Trade Mark·····: SKYWORTH

Model/Type reference·····: **GN543V**

Listed Model(s) ·····: SK-G5110, TCN22

Standard----: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample...: Aug. 01, 2023

Date of testing...... Aug. 01, 2023 to Sep. 11, 2023

Date of issue.....: Sep. 12, 2023

Result....: **PASS**

Compiled by:

(Printed name+signature) Lucy Lan

Supervised by:

(Printed name+signature) Eric Zhang lucy lan
Zic Zhang
Jeans

Approved by:

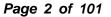
(Printed name+signature) Totti Zhao

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

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Address.....

Shenzhen, Guangdong, China

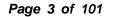
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3.9.

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

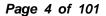
FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

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

1.2. Report version

Revised No.	Date of issue	Description
01	Sep. 12, 2023	Original





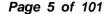


1.3. Test Description

FCC Part 15 Subpart C (15.247)				
Test Item	Standard Section	Result	Tool Engineer	
rest item	FCC	Result	Test Engineer	
Antenna Requirement	15.203	Pass	Curry Chen	
Conducted Emission	15.207	Pass	Curry Chen	
Band Edge Emissions	15.247(d)	Pass	Curry Chen	
6dB Bandwidth	15.247(a)(2)	Pass	Curry Chen	
Conducted Max Output Power	15.247(b)(3)	Pass	Curry Chen	
Power Spectral Density	15.247(e)	Pass	Curry Chen	
Transmitter Radiated Spurious	15.209&15.247(d)	Pass	Curry Chen	

Note: The measurement uncertainty is not included in the test result.

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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:

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 Indus try 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 (F CC) Federal Communications Commission. The acceptance letter from the FCC is maintained inour files. Registration 951311, Aug 26, 2017.

CTC Laboratories, Inc.

Accreditation Administration of the People's Republic of China: yz.cnca.cn

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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.

Test Items	Measurement Uncertainty	Notes
DTS Bandwidth	±0.0196%	(1)
Maximum Conducted Output Power	±0.686 dB	(1)
Maximum Power Spectral Density Level	±0.743 dB	(1)
Band-edge Compliance	±1.328 dB	(1)
Unwanted Emissions In Non-restricted Freq Bands	9kHz-1GHz: ±0.746dB 1GHz-26GHz: ±1.328dB	(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)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

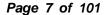
1.6. Environmental conditions

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

Temperature:	25°C
Relative Humidity:	40%
Air Pressure:	101kPa

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2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen Skyworth Digital Technology Co.,LTD
Address:	14/F, Block A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, Shenzhen, China
Manufacturer :	Shenzhen Skyworth Digital Technology Co.,LTD
Address:	14/F, Block A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, Shenzhen, China
Factory:	Shenzhen Skyworth Digital Technology Co.,LTD. Baoan Branch Factory
Address:	2-5F,Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyan Street, Baoan District, Shenzhen city, China

2.2. General Description of EUT

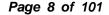
Product Name:	GPON ONT		
Trade Mark:	SKYWORTH		
Model/Type reference:	GN543V		
Listed Model(s):	SK-G5110, TCN22		
Model Difference:	All these models are identical in the same PCB, layout and electrical circuit, Different is model number.		
Power supply:	DC12V 1.5A from AC/DC Adapter		
Adapter Model:	YS-SKY120150U03P ^{Note1} Input: 100-240V~ 50/60Hz 0.6A Output: 12Vdc/1.5A		
Hardware version:	/		
Software version:	/		
WIFI 802.11b/ g/ n(HT20)/n(HT40)			
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)		
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)		
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)		
Channel separation:	5MHz		
Antenna 0 and 1 type:	dipole Antenna		
Antenna 0 gain:	3dBi		
Antenna 1 gain:	3dBi		
Noto			

Note:

1. YS-SKY120150U0xP, (x=0-9, indicates marketing purpose, no safety and EMC impact)

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2.3. Accessory Equipment Information

Equipment Information				
Name	Model	S/N	Manufacturer	
Notebook	ThinkBook 14 G3ACL	/	Lenovo	
Cable Information				
Name	Shielded Type	Ferrite Core	Length	
LAN Cable	Unshielded	NO	150cm	
Test Software Information				
Name	Version	/	1	
MT7603 QA	V0.0.1.85	/	1	

2.4. Operation state

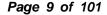
Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

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)

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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-MCS8	
802.11n(HT40)	HT-MCS8	

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 (duty cycle>98%). EUT support for SISO and MIMO Transmission,802.11b/g only supports SISO Mode, SISO mode sets the same power level as MIMO mode, so MIMO mode is the worst case. Recorded in the report.





2.5. Measurement Instruments List

	Radiated emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 16, 2023
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 16, 2023
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 16, 2023
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

	Conducted emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until			
1	LISN	R&S	ENV216	101112	Dec. 16, 2023			
2	LISN	R&S	ENV216	101113	Dec. 16, 2023			
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 16, 2023			
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 16, 2023			
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 16, 2023			

Tonsce	end RF Test System				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 16, 2023
2	Spectrum Analyzer	R&S	FSU26	100105	Dec. 16, 2023
3	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 14, 2024
4	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 16, 2023
5	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 16, 2023
6	Power Sensor	Keysight	U2021XA	MY55130004	Mar. 14, 2024
7	Power Sensor	Keysight	U2021XA	MY55130006	Mar. 14, 2024
8	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 16, 2023
9	High and low temperature box	ESPEC	MT3035	/	Mar. 24, 2024
10	JS1120 RF Test system	TONSCEND	v2.6	/	/

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

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



3. TEST ITEM AND RESULTS

3.1. Conducted Emission

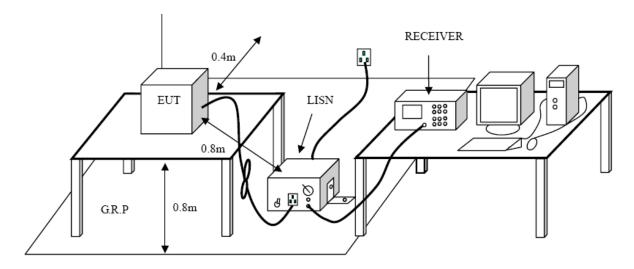
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (d	BuV)
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

^{*} 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.

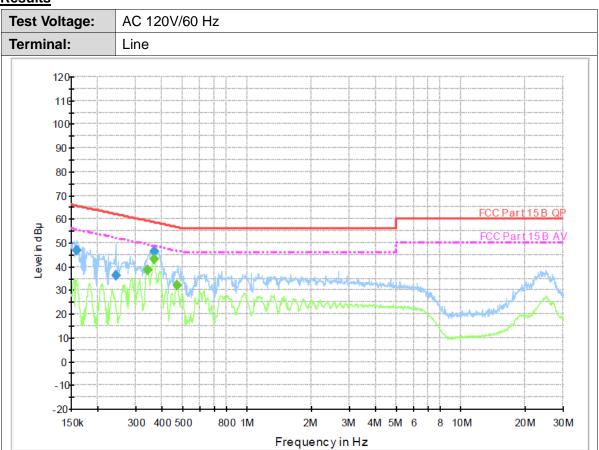




Test Mode:

Please refer to the clause 2.3.

Test Results



Final Measurement Detector 1

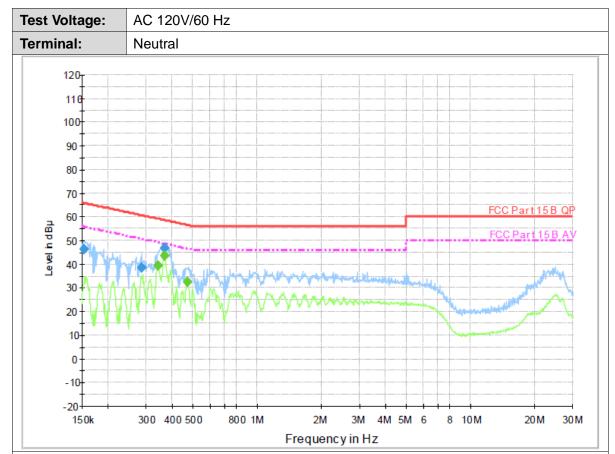
ı		O		Dominio 2 dillo	= 114	Line	0	N 4	1.200.96	0
	Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit	Comment
	(MHz)	(dBµ ∨)	Time	(kHz)			(dB)	(dB)	(dBµ	
		, , ,	(ms)						`V)	
	0.159890	46.7	1000.00	9.000	On	L1	9.7	18.8	65.5	
	0.242180	36.0	1000.00	9.000	On	L1	9.7	26.0	62.0	
	0.366810	46.3	1000.00	9.000	On	L1	9.7	12.3	58.6	

Final Measurement Detector 2

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµ ∨)	Time	(kHz)			(dB)	(dB)	(dBµ	
		(ms)						V)	
0.341380	38.4	1000.00	9.000	On	L1	9.7	10.8	49.2	
0.366810	43.1	1000.00	9.000	On	L1	9.7	5.5	48.6	
0.469820	31.9	1000.00	9.000	On	L1	9.7	14.6	46.5	

Emission Level= Read Level+ Correct Factor





Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ	Comment
		(ms)						V)	
0.153640	46.3	1000.00	9.000	On	N	10.0	19.5	65.8	
0.286390	38.5	1000.00	9.000	On	N	10.0	22.1	60.6	
0.368280	46.6	1000.00	9.000	On	N	10.0	11.9	58.5	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.341380	39.3	1000.00	9.000	On	N	10.0	9.9	49.2	
0.365350	43.6	1000.00	9.000	On	N	10.0	5.0	48.6	
0.469820	32.4	1000.00	9.000	On	N	10.0	14.1	46.5	

Emission Level= Read Level+ Correct Factor



3.2. Radiated Emission

<u>Limit</u>

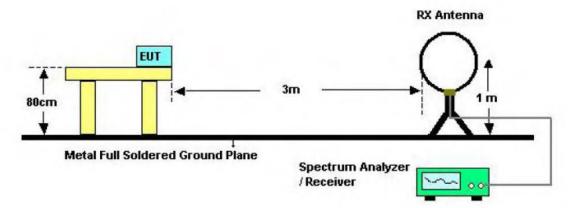
FCC CFR Title 47 Part 15 Subpart C Section 15.209:

Frequency	Limit (dBuV/m @3m)	Value	
30 MHz ~ 88 MHz	40.00	Quasi-peak	
88 MHz ~ 216 MHz	43.50	Quasi-peak	
216 MHz ~ 960 MHz	46.00	Quasi-peak	
960 MHz ~ 1 GHz	54.00	Quasi-peak	
Above 1 CUT	54.00	Average	
Above 1 GHz	74.00	Peak	

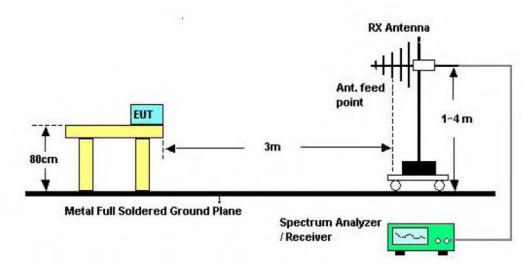
Note:

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

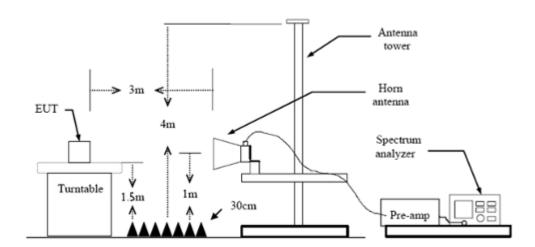
Test Configuration



Below 30MHz Test Setup



Below1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

- 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 guidelines.
- 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 10th harmonic:

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

RBW=1MHz, VBW=3MHz RMS detector for Average value.

Test Mode

Please refer to the clause 2.3.

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.

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30MHz-1GHz

Ant. Pol.	Horizontal				
Test Mode:	802.11b Mode 2412MHz				
Remark:	Only worse case is reported				
90.0 dBuV/m					
80					
70					
60	FCC Part15 Class B 3M Radiation				
50	Margin -6 dB				
30	5 8				
20 The state of th	The state of the s				
-10					
30.000	60.00 (MHz) 300.00 1000.00				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	88.9637	51.25	-21.80	29.45	43.50	-14.05	QP
2	102.7192	52.75	-20.60	32.15	43.50	-11.35	QP
3	156.4577	41.35	-16.82	24.53	43.50	-18.97	QP
4 *	192.4185	52.96	-19.79	33.17	43.50	-10.33	QP
5	375.9385	44.91	-15.39	29.52	46.00	-16.48	QP
6	501.1790	45.56	-12.64	32.92	46.00	-13.08	QP

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



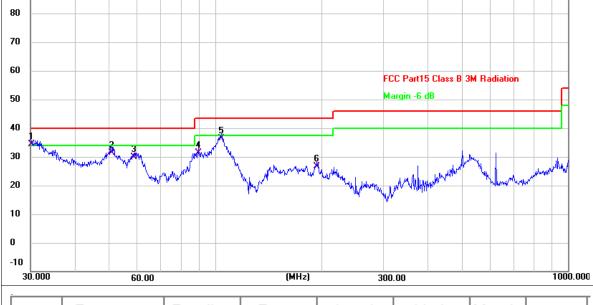
Ant. Pol. Vertical

Test Mode: 802.11b Mode 2412MHz

Remark: Only worse case is reported

90.0 dBuV/m

80
70



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.1054	52.52	-18.24	34.28	40.00	-5.72	QP
2	50.7637	48.99	-17.73	31.26	40.00	-8.74	QP
3	58.8185	48.26	-18.50	29.76	40.00	-10.24	QP
4	89.5899	53.04	-21.78	31.26	43.50	-12.24	QP
5	104.1701	56.92	-20.55	36.37	43.50	-7.13	QP
6	193.7728	46.45	-19.91	26.54	43.50	-16.96	QP

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



Adobe 1GHz

Ant No.	ANT1
Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.968	45.78	2.20	47.98	54.00	-6.02	AVG
2	4824.026	46.00	2.20	48.20	74.00	-25.80	peak

Remarks:

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

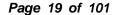
2.Margin value = Level -Limit value

Ant No.	ANT1
Ant. Pol.	Vertical
Test Mode:	TX B Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l .	Margin (dB)	Detector
1 *	4824.013	43.53	2.20	45.73	54.00	-8.27	AVG
2	4824.108	47.61	2.20	49.81	74.00	-24.19	peak

Remarks:

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





Ant No.	ANT1
Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.961	45.98	2.30	48.28	74.00	-25.72	peak
2 *	4874.038	40.39	2.30	42.69	54.00	-11.31	AVG

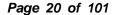
Remarks:

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

Ant No.	ANT1
Ant. Pol.	Vertical
Test Mode:	TX B Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.879	47.01	2.30	49.31	74.00	-24.69	peak
2 *	4873.976	42.72	2.30	45.02	54.00	-8.98	AVG

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





Ant No.	ANT1
Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.923	46.40	2.41	48.81	74.00	-25.19	peak
2 *	4924.071	41.41	2.41	43.82	54.00	-10.18	AVG

Remarks:

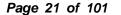
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

Ant No.	ANT1
Ant. Pol.	Vertical
Test Mode:	TX B Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4923.949	46.39	2.41	48.80	54.00	-5.20	AVG
2	4924.018	49.66	2.41	52.07	74.00	-21.93	peak

Remarks:

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





Ant No.	ANT1
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.511	27.73	2.20	29.93	54.00	-24.07	AVG
2	4824.098	41.99	2.20	44.19	74.00	-29.81	peak

Remarks:

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

Ant No.	ANT1
Ant. Pol.	Vertical
Test Mode:	TX G Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.973	29.86	2.20	32.06	54.00	-21.94	AVG
2	4824.112	44.31	2.20	46.51	74.00	-27.49	peak

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





Ant No.	ANT1
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.825	40.51	2.30	42.81	74.00	-31.19	peak
2 *	4874.257	25.72	2.30	28.02	54.00	-25.98	AVG

Remarks:

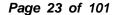
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

Ant No.	ANT1
Ant. Pol.	Vertical
Test Mode:	TX G Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4873.667	28.66	2.30	30.96	54.00	-23.04	AVG
2	4873.968	42.28	2.30	44.58	74.00	-29.42	peak

Remarks:

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





Ant No.	ANT1
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4924.103	40.76	2.41	43.17	74.00	-30.83	peak
2 *	4924.280	25.11	2.41	27.52	54.00	-26.48	AVG

Remarks:

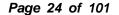
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

Ant No.	ANT1
Ant. Pol.	Vertical
Test Mode:	TX G Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4923.956	41.81	2.41	44.22	74.00	-29.78	peak
2 *	4924.042	29.32	2.41	31.73	54.00	-22.27	AVG

Remarks:

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





Ant No.	ANT2
Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.878	46.02	2.20	48.22	74.00	-25.78	peak
2 *	4823.982	40.56	2.20	42.76	54.00	-11.24	AVG

Remarks:

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

Ant No.	ANT2
Ant. Pol.	Vertical
Test Mode:	TX B Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l .	Margin (dB)	Detector
1	4823.973	50.61	2.20	52.81	74.00	-21.19	peak
2 *	4823.975	47.68	2.20	49.88	54.00	-4.12	AVG

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





Ant No.	ANT2
Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.964	43.69	2.30	45.99	74.00	-28.01	peak
2 *	4873.996	36.78	2.30	39.08	54.00	-14.92	AVG

Remarks:

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

Ant No.	ANT2
Ant. Pol.	Vertical
Test Mode:	TX B Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.958	48.49	2.30	50.79	74.00	-23.21	peak
2 *	4874.014	44.28	2.30	46.58	54.00	-7.42	AVG

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





Ant No.	ANT2
Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4924.024	30.58	2.41	32.99	54.00	-21.01	AVG
2	4924.103	42.16	2.41	44.57	74.00	-29.43	peak

Remarks:

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

Ant No.	ANT2
Ant. Pol.	Vertical
Test Mode:	TX B Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4923.977	42.24	2.41	44.65	54.00	-9.35	AVG
2	4924.022	47.02	2.41	49.43	74.00	-24.57	peak

Remarks:

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





Ant No.	ANT2
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.531	42.52	2.20	44.72	74.00	-29.28	peak
2 *	4824.107	27.55	2.20	29.75	54.00	-24.25	AVG

Remarks:

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

Ant No.	ANT2
Ant. Pol.	Vertical
Test Mode:	TX G Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l .	Margin (dB)	Detector
1	4823.667	46.50	2.20	48.70	74.00	-25.30	peak
2 *	4823.926	32.81	2.20	35.01	54.00	-18.99	AVG

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





Ant No.	ANT2
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4874.100	25.52	2.30	27.82	54.00	-26.18	AVG
2	4874.153	40.75	2.30	43.05	74.00	-30.95	peak

Remarks:

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

Ant No.	ANT2
Ant. Pol.	Vertical
Test Mode:	TX G Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	I	Margin (dB)	Detector
1 *	4874.086	28.47	2.30	30.77	54.00	-23.23	AVG
2	4874.093	44.08	2.30	46.38	74.00	-27.62	peak

Remarks:

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





Ant No.	ANT2
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4923.938	24.26	2.41	26.67	54.00	-27.33	AVG
2	4924.402	40.16	2.41	42.57	74.00	-31.43	peak

Remarks:

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

2.Margin value = Level -Limit value

Ant No.	ANT2		
Ant. Pol.	Vertical		
Test Mode: TX G Mode 2462MHz			
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.879	42.61	2.41	45.02	74.00	-28.98	peak
2 *	4924.213	28.19	2.41	30.60	54.00	-23.40	AVG

Remarks:

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





Ant No.	MIMO
Ant. Pol.	Horizontal
Test Mode:	TX N20 Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.887	27.01	2.20	29.21	54.00	-24.79	AVG
2	4824.093	41.62	2.20	43.82	74.00	-30.18	peak

Remarks:

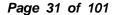
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

Ant No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX N20 Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l e	Margin (dB)	Detector
1	4823.525	45.06	2.20	47.26	74.00	-26.74	peak
2 *	4824.432	31.63	2.20	33.83	54.00	-20.17	AVG

Remarks:

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





Ant No.	MIMO
Ant. Pol.	Horizontal
Test Mode:	TX N20 Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.081	39.70	2.30	42.00	74.00	-32.00	peak
2 *	4874.300	25.75	2.30	28.05	54.00	-25.95	AVG

Remarks:

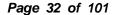
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

Ant No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX N20 Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	I	Margin (dB)	Detector
1 *	4873.544	28.69	2.30	30.99	54.00	-23.01	AVG
2	4873.653	42.72	2.30	45.02	74.00	-28.98	peak

Remarks:

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





Ant No.	MIMO
Ant. Pol.	Horizontal
Test Mode:	TX N20 Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	I	Margin (dB)	Detector
1	4923.777	39.56	2.41	41.97	74.00	-32.03	peak
2 *	4924.055	24.71	2.41	27.12	54.00	-26.88	AVG

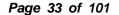
Remarks:

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

Ant No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX N20 Mode 2462MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4923.510	43.44	2.41	45.85	74.00	-28.15	peak
2 *	4923.817	28.91	2.41	31.32	54.00	-22.68	AVG

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





Ant No.	MIMO
Ant. Pol.	Horizontal
Test Mode:	TX N40 Mode 2422MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4843.775	25.20	2.24	27.44	54.00	-26.56	AVG
2	4844.147	40.49	2.24	42.73	74.00	-31.27	peak

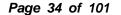
Remarks:

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

Ant No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX N40 Mode 2422MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	I	Margin (dB)	Detector
1	4843.509	41.56	2.24	43.80	74.00	-30.20	peak
2 *	4844.216	28.57	2.24	30.81	54.00	-23.19	AVG

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





Ant No.	MIMO
Ant. Pol.	Horizontal
Test Mode:	TX N40 Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4873.707	25.91	2.30	28.21	54.00	-25.79	AVG
2	4873.893	40.02	2.30	42.32	74.00	-31.68	peak

Remarks:

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

2.Margin value = Level -Limit value

Ant No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX N40 Mode 2437MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.624	40.79	2.30	43.09	74.00	-30.91	peak
2 *	4874.424	27.41	2.30	29.71	54.00	-24.29	AVG

Remarks:

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





Ant No.	MIMO
Ant. Pol.	Horizontal
Test Mode:	TX N40 Mode 2452MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4904.202	39.85	2.36	42.21	74.00	-31.79	peak
2 *	4904.211	25.99	2.36	28.35	54.00	-25.65	AVG

Remarks:

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

Ant No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX N40 Mode 2452MHz
Remark:	No report for the emission which more than 10 dB below the prescribed
	limit. Only worse case is reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4903.750	27.33	2.36	29.69	54.00	-24.31	AVG
2	4904.413	40.25	2.36	42.61	74.00	-31.39	peak

Remarks:

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

CTC Laboratories, Inc.



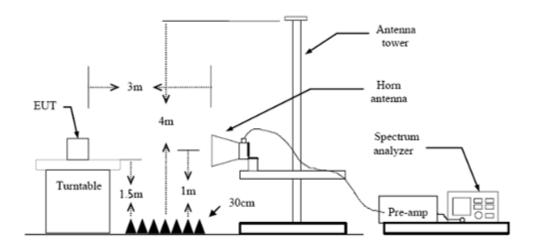
3.3. Band Edge Emissions

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.
- The receiver set as follow: RBW=1MHz, VBW=3MHz PEAK detector for Peak value. RBW=1MHz, VBW=10Hz with PEAK Detector for Average Value.

Test Mode

Please refer to the clause 2.3.

Test Results



Ant	No.	ANT1
Ant.	Pol.	Horizontal
Test	Mode:	B Mode 2412MHz
Rem	nark:	Only worse case is reported
120.0	dBuV/m	
110		
100		
90		
80		
70		FCC Part15 C - Above 1G PK
60		FCC Part15 C- Above 1G AV
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	21.42	30.84	52.26	74.00	-21.74	peak
2 *	2390.000	9.83	30.84	40.67	54.00	-13.33	AVG

Remarks:

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

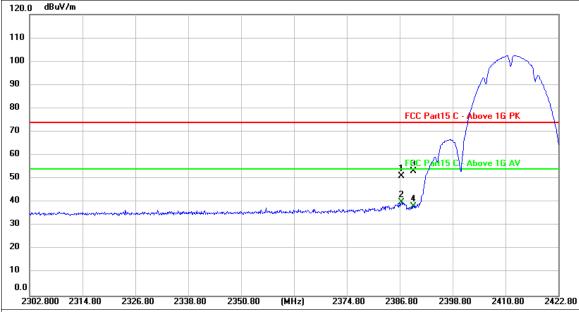


Ant No. ANT1
Ant. Pol. Vertical

Test Mode: B Mode 2412MHz

Remark: Only worse case is reported

120.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2387.240	20.32	30.83	51.15	74.00	-22.85	peak
2 *	2387.240	9.27	30.83	40.10	54.00	-13.90	AVG
3	2390.000	22.39	30.84	53.23	74.00	-20.77	peak
4	2390.000	7.38	30.84	38.22	54.00	-15.78	AVG

Remarks:

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



Ant. Pol.	Horizontal	rizontal							
Test Mode:	B Mode 2462 MHz								
Remark:	Only worse case is reported								
120.0 dBuV/m									
110									
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o /	\ <u>-</u>	FCC Part15 C - Above 1G PK							
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0	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	FCC Part15 C - Above 1G AV							
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	23.53	31.24	54.77	74.00	-19.23	peak
2	2483.500	14.19	31.24	45.43	54.00	-8.57	AVG
3	2486.400	27.24	31.25	58.49	74.00	-15.51	peak
4 *	2486.400	21.01	31.25	52.26	54.00	-1.74	AVG

Remarks:

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



Ant No.	ANT1									
Ant. Pol.	Vertical	Vertical								
Test Mode:	B Mode 2462 MHz									
Remark:	Only worse case is reported									
120.0 dBuV/m										
110										
100										
90 //										
80		FCC Part15 C - Above 1G PK								
70										
60	1 3	FCC Part15 C - Above 1G AV								
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	22.82	31.24	54.06	74.00	-19.94	peak
2	2483.500	10.32	31.24	41.56	54.00	-12.44	AVG
3	2486.320	23.16	31.25	54.41	74.00	-19.59	peak
4 *	2486.320	16.94	31.25	48.19	54.00	-5.81	AVG

Remarks:

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



Ant	No.		ANT1											
Ant.	. Pol.		Horiz	ontal										
Test	t Mode:		G Mo	lode 2412MHz										
Remark:			Only	worse	e cas	se is re	eporte	d						
120.0	dBuV/m													
110														
100														
90														\rightarrow
80											FCC Pa	t15 C - Abo	ve 1G PK	-
70											TCCTA	TIS C - AUC	THE ILL IN	_
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0.0	D1.600 2313.60			2337					2373.60				2409.60	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	27.75	30.84	58.59	74.00	-15.41	peak
2 *	2390.000	12.44	30.84	43.28	54.00	-10.72	AVG

Remarks:

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



Ant	No.	ANT1								
Ant	. Pol.	Vertica	l							
Test	t Mode:	G Mod	Mode 2412MHz							
Ren	nark:	Only w	orse cas	se is rep	orted					
120.0	dBuV/m									
110										
100										
90										\rightarrow
80							FCC Pa	rt15 C - Abo	ve 1G PK	\dashv
70										
60							1 FCC Pa	n15 C - Abo	ve 1G AV	
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0.0	02.200 2314.20	2326.20	2338.20	2350.20	(MHz)	2374.20	2386.20	2398.20	2410.20	242

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	27.82	30.84	58.66	74.00	-15.34	peak
2 *	2390.000	13.82	30.84	44.66	54.00	-9.34	AVG

Remarks:

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



Ant No.	ANT1						
Ant. Pol.	Horizontal						
Test Mode:	G Mode 2462MHz						
Remark:	Only worse case is reported						
120.0 dBuV/m							
110							
100							
90							
80	FCC Part15 C -	Above 1G PK					
70							
60	1 X						
50	FCC Part15 C -	Above 16 AV					
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	32.64	31.24	63.88	74.00	-10.12	peak
2 *	2483.500	19.04	31.24	50.28	54.00	-3.72	AVG

Remarks:

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



nt	No.		ANT	1									
4nt	. Pol.		Verti	cal									
Tes	t Mode:		G M	ode 2	462M	lHz							
Ren	nark:		Only	wors	e cas	e is rep	orted						
120.0	dBuV/m												
110													
100													
30													
30		\rightarrow							F	CC Part15	C - Abov	e 1G PK	
70									•	CC T dicts	C - ADOT	e IUTK	
60				1 X						CC D .45		16.49	
50				Ž.						CC Part15	L - ADOV	e IG AV	
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20													
10													
0.0	52. 400 246	4.40	2476.40		8.40	2500.40	(MHz)	2524.40	2536.4		8.40	2560.40	2572

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l e	Margin (dB)	Detector
1	2483.500	31.65	31.24	62.89	74.00	-11.11	peak
2 *	2483.500	19.02	31.24	50.26	54.00	-3.74	AVG

Remarks:

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



Ant N	lo.	ANT2							
Ant. F	Pol.	Horizonta	ıl						
Test N	Mode:	B Mode 2	2412MH	Z					
Rema	rk:	Only wors	se case	is reporte	ed				
120.0	dBuV/m								
110									
100									W
90									
70							FCC Part15	C - Above 16	PK
60							FCC Part15	S - Above 16	i AV
50							× × ×	•	
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10									
0.0									

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2386.640	20.12	30.82	50.94	74.00	-23.06	peak
2 *	2386.640	11.43	30.82	42.25	54.00	-11.75	AVG
3	2390.000	18.72	30.84	49.56	74.00	-24.44	peak
4	2390.000	6.61	30.84	37.45	54.00	-16.55	AVG

Remarks:

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



Ant	No.		ANT2									
Ant	. Pol.		Vertic	al								
Tes	t Mode:		В Мо	de 241	2MHz	<u> </u>						
Ren	nark:		Only	worse	case i	is repo	rted					
120.0	dBuV/m											
110												
100												-1 ~
90											1	h
80										FCC Part1!	i C - Above 10	PK
70												
60										ECC Pad1	Above 1	AV.
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2385.280	20.62	30.82	51.44	74.00	-22.56	peak
2 *	2385.280	9.59	30.82	40.41	54.00	-13.59	AVG
3	2390.000	19.33	30.84	50.17	74.00	-23.83	peak
4	2390.000	5.44	30.84	36.28	54.00	-17.72	AVG

Remarks

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



Ant No. ANT2

Ant. Pol. Horizontal

Test Mode: B Mode 2462 MHz

Remark: Only worse case is reported



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	23.10	31.24	54.34	74.00	-19.66	peak
2	2483.500	14.12	31.24	45.36	54.00	-8.64	AVG
3	2488.810	27.16	31.26	58.42	74.00	-15.58	peak
4 *	2488.810	20.05	31.26	51.31	54.00	-2.69	AVG

Remarks:

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



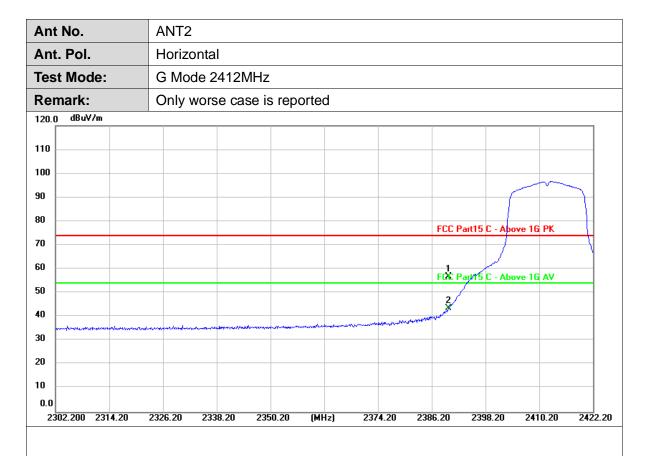
4nt	No.		A١	NT2											
Ant.	. Pol.		Ve	ertical											
Test	t Mode:		В	Mode	2462	2 MHz	<u> </u>								
Ren	nark:		Or	nly wo	rse c	ase is	s repo	orted							
120.0	dBuV/m														
110															
100															
90	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \														
80	_/"														
)	$\downarrow \downarrow$								F	CC Part15	C - Abo	ve 1G PK	<u></u>
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	23.11	31.24	54.35	74.00	-19.65	peak
2	2483.500	9.12	31.24	40.36	54.00	-13.64	AVG
3	2487.900	23.80	31.26	55.06	74.00	-18.94	peak
4 *	2487.900	16.43	31.26	47.69	54.00	-6.31	AVG

Remarks:

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





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l .	Margin (dB)	Detector
1	2390.000	26.01	30.84	56.85	74.00	-17.15	peak
2 *	2390.000	12.88	30.84	43.72	54.00	-10.28	AVG

Remarks:

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





Ant	No.	ANT2	2							
Ant.	Pol.	Vertic	al							
Test	: Mode:	G Mo	de 2412 l	ИHz						
Rem	nark:	Only	worse ca	se is rep	orted					
120.0	dBuV/m									
110										
100										
90									~	
80							FCC P	art15 C - Abo	ve 16 PK	\longrightarrow
70										
60							FC(XP.	art]/5 C - Abo	ve 1G AV	
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20										
10										
0.0										

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	25.96	30.84	56.80	74.00	-17.20	peak
2 *	2390.000	12.07	30.84	42.91	54.00	-11.09	AVG

Remarks:

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



nt. Pol.	Horizontal
Test Mode:	G Mode 2462MHz
Remark:	Only worse case is reported
120.0 dBuV/m	
10	
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30	FCC Part15 C - Above 1G PK
70	
60	1 X FCC Part15 C - Above 1G AV
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0.0	

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	29.70	31.24	60.94	74.00	-13.06	peak
2 *	2483.500	17.73	31.24	48.97	54.00	-5.03	AVG

Remarks:

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



Ant I	No.		AN	T2									
Ant.			Vei	rtical									
Test	Mode:		GI	Mode 2	2462MF	Ηz							
Rem	ark:		On	ly wors	se case	is rep	orted						
120.0	dBuV/m												
110													
	~												
90 7													
80		\rightarrow								FCC Part15	C - Above	1G PK	
70													
60			San	X									
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0.0	2.400 246		2476.4		88.40 2	2500.40	(MHz)	2524.40	2536		18.40	2560.40	25

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.00	31.24	62.24	74.00	-11.76	peak
2 *	2483.500	15.42	31.24	46.66	54.00	-7.34	AVG

Remarks:

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



Ant No. MIMO

Ant. Pol. Horizontal

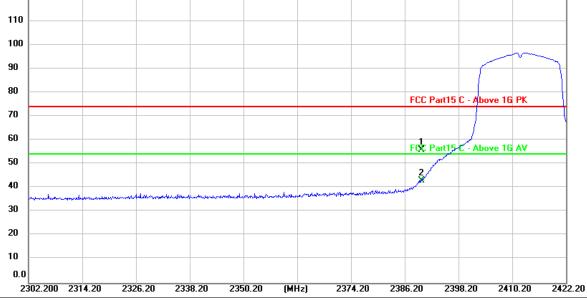
Test Mode: N(HT20) Mode 2412MHz

Remark: Only worse case is reported

120.0 dBuV/m

110
100
90
80

FCC Part15 C - Above 16 PK



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	25.13	30.84	55.97	74.00	-18.03	peak
2 *	2390.000	12.30	30.84	43.14	54.00	-10.86	AVG

Remarks:

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



Ant	No.	MIMC)							
Ant.	Pol.	Vertic	al							
Test	: Mode:	Pol. Vertical Mode: N(HT20) Mode 2412MHz Only worse case is reported dBuV/m FCC Part15 C - Above 16								
Ren	nark:	Only	worse cas	se is rep	orted					
120.0	dBuV/m									
110										
100										
90										\rightarrow
80							FCC Parl	15 C - Δbο	ve 1G PK	$-\parallel$
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	l e	Margin (dB)	Detector
1	2390.000	27.34	30.84	58.18	74.00	-15.82	peak
2 *	2390.000	12.85	30.84	43.69	54.00	-10.31	AVG

Remarks:

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



Ant No.	MIMO	
Ant. Pol.	Horizontal	
Test Mode:	N(HT20) Mode 2462MHz	
Remark:	Only worse case is reported	
120.0 dBuV/m		
110		
100		
90		
80	FCC Part15 C - Above 1G F	PΚ
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	32.24	31.24	63.48	74.00	-10.52	peak
2 *	2483.500	20.18	31.24	51.42	54.00	-2.58	AVG

Remarks:

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

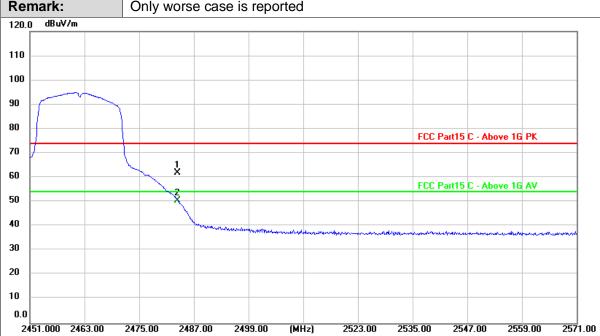


Ant No. MIMO

Ant. Pol. Vertical

Test Mode: N(HT20) Mode 2462MHz

Remark: Only worse case is reported



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)			Margin (dB)	Detector
1	2483.500	30.81	31.24	62.05	74.00	-11.95	peak
2 *	2483.500	19.30	31.24	50.54	54.00	-3.46	AVG

Remarks:

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



Ant	No.		MIMC)							
Ant	. Pol.	I. Horizontal de: N(HT40) Mode 2422MHz : Only worse case is reported									
Tes	t Mode:		N(HT	40) Mode	e 2422Mł	Ηz					
Ant. Pol. Horizontal Test Mode: N(HT40) Mode 2422MHz Remark: Only worse case is reported 120.0 dBuV/m 110 100 90 80 70 60 50 40 30 20 10 0.0											
120.0) dBuV/m										
110											
100											
90										~	_
80								FCC P	art15 C - Abo	ove 1G PK	\rightarrow
70											
60								1 FCC P	art15 C - Abo	ve 1G AV	
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10											
L	42.000 2262.0		2282.00	2302.00	2322.00	(MHz)	2362.00			2422.00	244

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	28.36	30.84	59.20	74.00	-14.80	peak
2 *	2390.000	15.06	30.84	45.90	54.00	-8.10	AVG

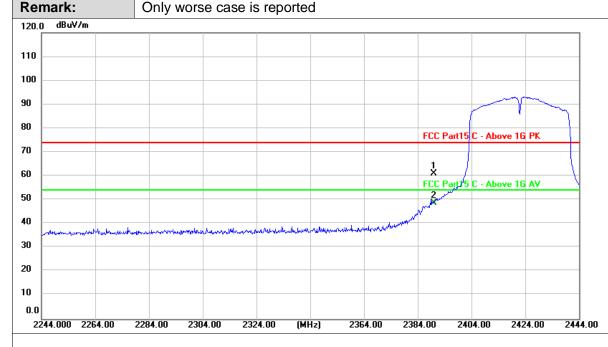
Remarks:

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



Ant No. MIMO
Ant. Pol. Vertical
Test Mode: N(HT40) Mode 2422MHz

Report No.: CTC20231618E01



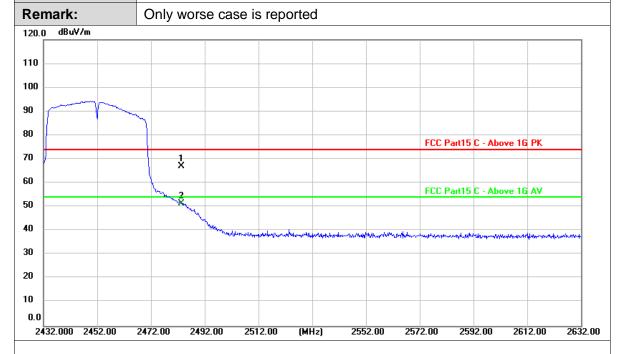
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	30.23	30.84	61.07	74.00	-12.93	peak
2 *	2390.000	18.03	30.84	48.87	54.00	-5.13	AVG

Remarks:

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



Ant No. MIMO
Ant. Pol. Horizontal
Test Mode: N(HT40) Mode 2452MHz



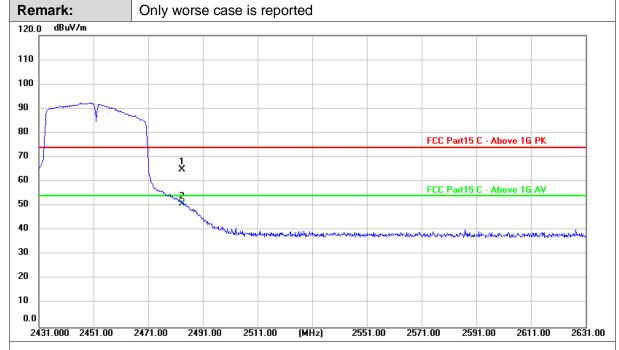
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	35.82	31.24	67.06	74.00	-6.94	peak
2 *	2483.500	20.31	31.24	51.55	54.00	-2.45	AVG

Remarks:

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



Ant No. MIMO Ant. Pol. Vertical **Test Mode:** N(HT40) Mode 2452MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	33.86	31.24	65.10	74.00	-8.90	peak
2 *	2483.500	19.48	31.24	50.72	54.00	-3.28	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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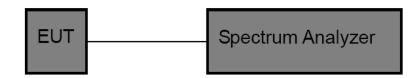


3.4. Band edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Configuration



Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: RBW = 100 kHz, VBW ≥ RBW, scan up through 10th harmonic. Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

Test Results



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

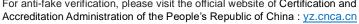


Band edge measurements & Conducted Spurious Emission

Air. (MHz) (dBm) (dBm)	PASS PASS PASS PASS PASS PASS PASS PASS
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Table Tabl	PASS PASS PASS PASS PASS PASS PASS PASS
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1	PASS PASS PASS
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Table Tabl	PASS
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1 24801.5 -41.866 -24.83 1 2400.00 -29.612 -24.74 24822.1 -41.797 -24.74 0 23181.5 -40.926 -24.81 802.11n_20 6 1 5738.28 -39.937 -25.51 0 2483.50 -39.201 -24.85 5617.80 -48.385 -24.85	PASS
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IEEE 0 23181.5 -40.926 -24.81 802.11n_20 1 5738.28 -39.937 -25.51 0 2483.50 -39.201 -24.85 5617.80 -48.385 -24.85	PASS
802.11n_20	PASS
0 2483.50 -39.201 -24.85 5617.80 -48.385 -24.85	PASS
5617.80 -48.385 -24.85	PASS
	PASS
1	PASS
1 5837.54 -40.214 -24.97	PASS
2400.00 -41.266 -29.2	PASS
0 2397.88 -36.570 -29.2	PASS
24799.4 42.242 20.2	PASS
3 2400.00 -38.418 -28.73	PASS
1 2398.27 -35.325 -28.73	PASS
IEEE 23693.4 -41.364 -28.73	PASS
802 11n 40 0 24908 9 -41 130 -29 53	PASS
6 1 23633.5 -42.164 -29.39	PASS
2483 50 -41 441 -29 01	PASS
22773.9 -42.170 -29.01	
2483 50 -45 958 -29 33	I PASS
1 22781.4 -42.046 -29.33	PASS PASS

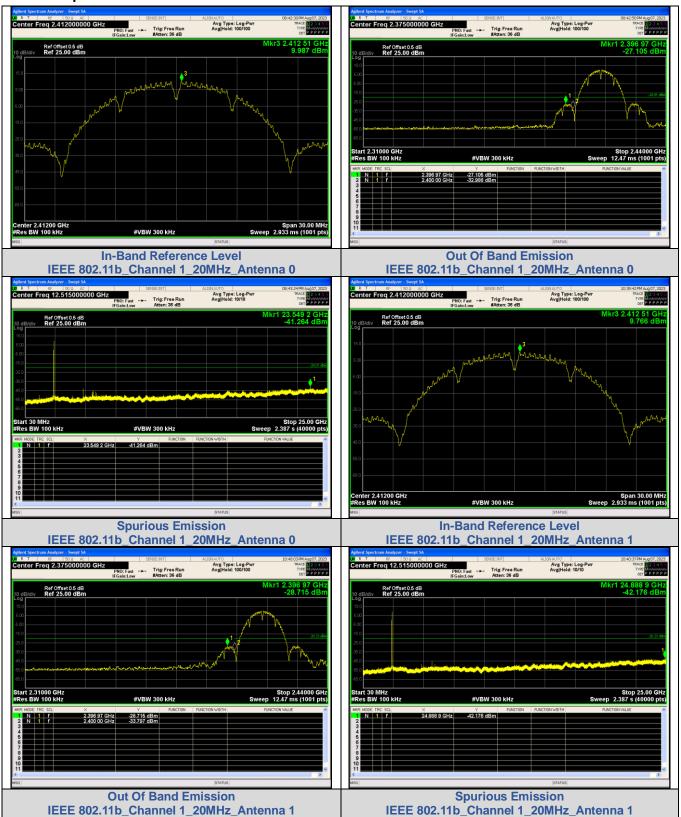
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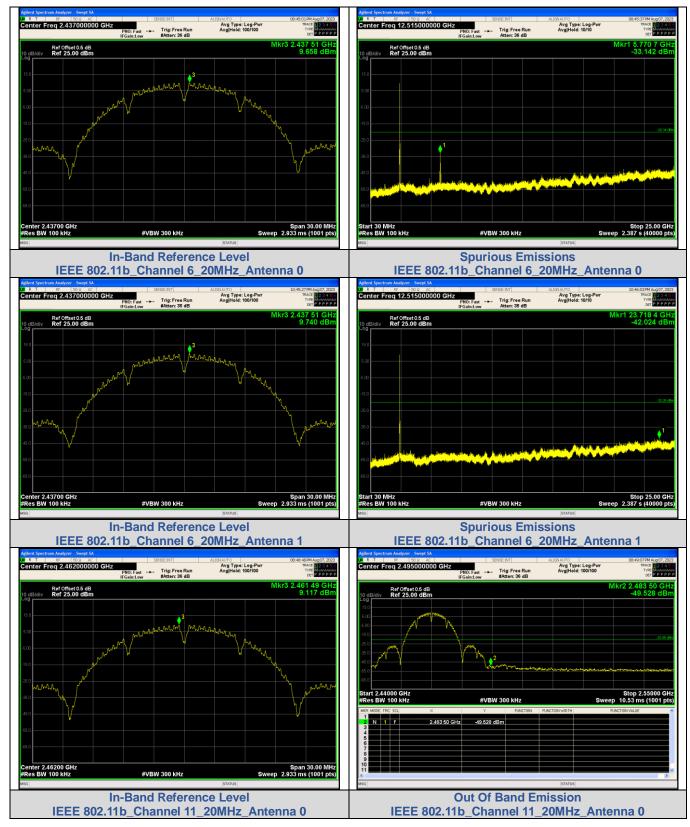
Test Graphs



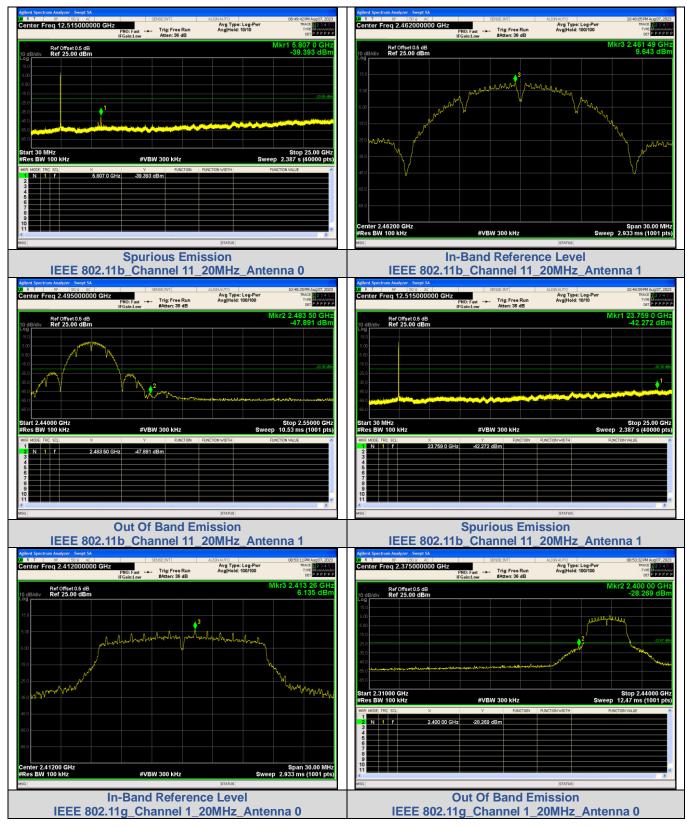


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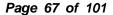




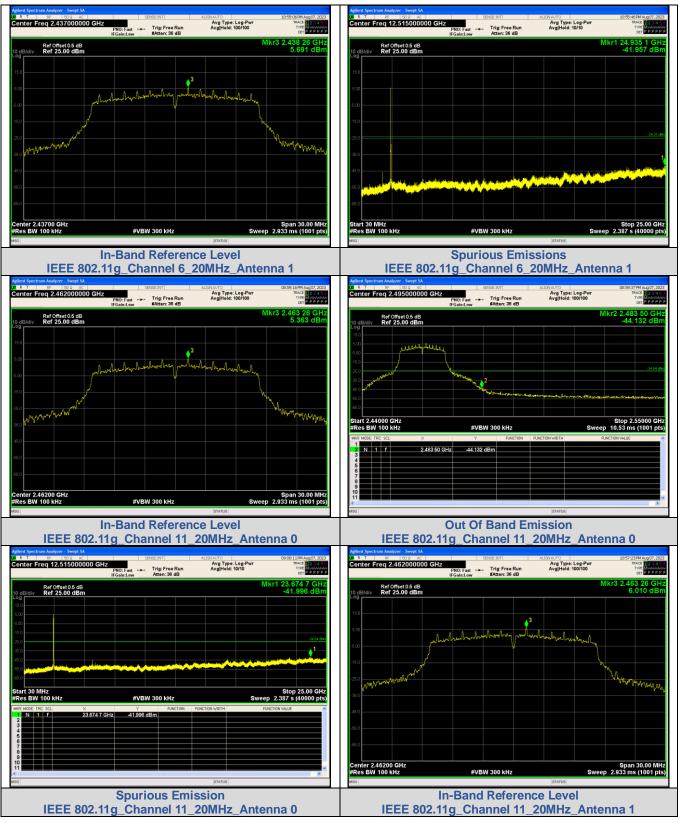
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