TEST REPORT

Report No.: CTC2024305701

FCC ID.....: 2BM2I-LC2316

Applicant:: Shenzhen Xiaopai Technology Co., Ltd.

Unit A 8F 806, skyworth bldg, Gaoxin Ave. 1.S., Nanshan Address....:

District, Shenzhen, Guangdong Province, China

Manufacturer....: Shenzhen Xiaopai Technology Co., Ltd.

Unit A 8F 806, skyworth bldg, Gaoxin Ave. 1.S., Nanshan Address....:

District, Shenzhen, Guangdong Province, China

Product Name: Indoor Smart Wi-Fi Camera

Trade Mark: xpai

Model/Type reference....: LC2316

Listed Model(s):

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

Test Report Form No: CTC-TR-057_A1

Master TRF.....: Dated 2024-09-20

Date of receipt of test sample.....: Dec. 26, 2024

Dec. 29, 2024 ~ Jan. 20, 2025 Date of testing.....

Date of issue..... Jan. 21, 2025

Result....: **PASS**

Compiled by:

(Printed name+signature) Alicia Liu

Supervised by:

(Printed name+signature) Eric Zhang Alicia Zic Zhang Ledmas

Approved by:

(Printed name+signature) Totti Zhao

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TRF No: CTC-TR-057 A1 Society: yz.cnca.cn



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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

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

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2024305701	Jan. 21, 2025	Original

1.3. Test Description

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

Note:

- 1. The measurement uncertainty is not included in the test result.
- 2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

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1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 101 of Building B, Room 107, 108, 207, 208 of Building A, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, 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 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.

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:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa

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2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen Xiaopai Technology Co., Ltd.
Address:	Unit A 8F 806, skyworth bldg, Gaoxin Ave. 1.S., Nanshan District, Shenzhen, Guangdong Province, China
Manufacturer:	Shenzhen Xiaopai Technology Co., Ltd.
Address:	Unit A 8F 806, skyworth bldg, Gaoxin Ave. 1.S., Nanshan District, Shenzhen, Guangdong Province, China
Factory:	Shenzhen Skyworth Digital Technology Co.,LTD. Baoan 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:	Indoor Smart Wi-Fi Camera	
Trade Mark:	храі	
Model/Type reference:	LC2316	
Listed Model(s):	/	
Model Difference:	/	
Sample ID:	CTC241223-008-S002	
Power Supply 1:	MODEL:UT-236A-5100 INPUT:100-240V~50/60Hz 0.2A OUTPUT:5.0V=1.0A 5.0W	
Power Supply 2:	MODEL:AD-D0930500100US01 INPUT:100-240V~50/60Hz Max 0.2A OUTPUT:5.0V=1.0A	
Hardware Version:	/	
Software Version:	/	
2.4G Wi-Fi		
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:	PCB Antenna	
Antenna Gain:	2.56dBi	



2.3. Accessory Equipment Information

Equipment Information S/N Name Model Manufacturer Notebook ThinkPad T460s Lenovo Serial port board 5800-2CLMH00 **Cable Information** Ferrite Core Name Shielded Type Length **USB** Cable NO Unshielded 100cm **Test Software Information** Version Name

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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)

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.

Test 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

RF Te	RF Test System - SRD					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until	
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 21, 2025	
2	Spectrum Analyzer	R&S	FSV40-N	101654	Aug. 06, 2025	
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 12, 2025	
4	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 12, 2025	
5	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Aug. 21, 2025	
6	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 12, 2025	
7	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 12, 2025	
8	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2025	
9	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2025	
10	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 21, 2025	
11	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 21, 2025	
12	Wideband Radio Communication Tester	R&S	CMW500	102257	May 24, 2025	
13	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2025	
14	RF Control Unit	Tonscend	JS0806-2	/	Aug. 21, 2025	
15	High and low temperature test chamber	ESPEC	MT3035	1	Mar. 21, 2025	
16	Test Software	Tonscend	JS1120-3	V2.6.88.0346	/	
17	Test Software	Tonscend	JS1120-3	V3.3.38	/	
18	Test Software	WCS	WCS-WCN	2023.08.04	/	

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 24, 2025
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-648	Sep. 25, 2025
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2025
4	Broadband Amplifier	Schwarzbeck	BBV9743B	259	Dec. 12, 2025
5	Mirowave Broadband Amplifier	Schwarzbeck	BBV9718C	111	Dec. 12, 2025
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

Radiated emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until	
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 17, 2025	
2	2 Horn Antenna Schwarzbeck BBHA 9120D 9120D-648 Dec. 11, 2025					

TRF No: CTC-TR-057_A1 For anti-rake verification, Society: <u>yz.cnca.cn</u>



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3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 12, 2025
4	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 21, 2025
5	Pre-Amplifier	SONOMA	310	186194	Dec. 12, 2025
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 12, 2025
7	Test Receiver	R&S	ESCI7	100967	Dec. 12, 2025
8	3m chamber 2	Frankonia	EE025	/	Oct. 18, 2027
9	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. 12, 2025				
2	LISN	R&S	ENV216	101113	Dec. 12, 2025				
3	EMI Test Receiver	R&S	ESCI	100524	Dec. 12, 2025				
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2025				
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2025				
6	Test Software	R&S	EMC32	6.10.10	/				

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

- 2. The Cal. Interval was three years of the antenna.
- 3. The cable loss has been calculated in test result which connection between each test instruments.



3. TEST ITEM AND RESULTS

3.1. Conducted Emission

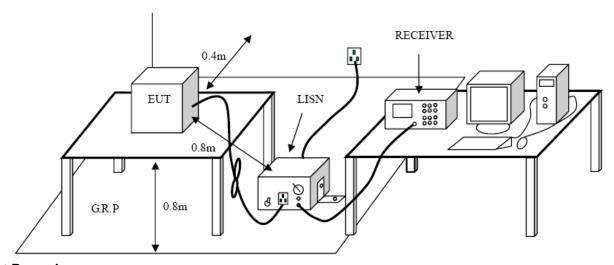
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguency (MHz)	Conducte	ed Limit (dBµV)
Frequency (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 impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 µH coupling impedance for the measuring equipment.
- 4. 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)
- 5. 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.
- 6. 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.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

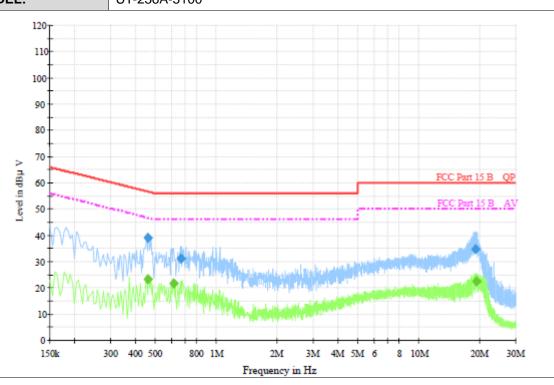
Test Mode

Please refer to the clause 2.4.



Test Result

Test Voltage:	AC 120V/60Hz
Terminal:	Line
Remark:	Only worse case is reported
MODEL :	LIT-236Δ-5100



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.460500	39.1	1000.00	9.000	On	L1	9.5	17.6	56.7	
0.663000	31.1	1000.00	9.000	On	L1	9.5	24.9	56.0	
18.879000	34.8	1000.00	9.000	On	L1	9.7	25.2	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.460500	23.2	1000.00	9.000	On	L1	9.5	23.5	46.7	
0.613500	21.6	1000.00	9.000	On	L1	9.5	24.4	46.0	
19.266000	22.4	1000.00	9.000	On	L1	9.7	27.6	50.0	

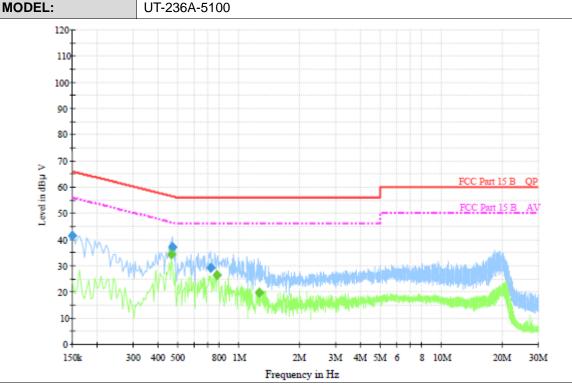
Emission Level = Read Level + Correct Factor



Test Voltage: AC 120V/60Hz

Terminal: Neutral

Remark: Only worse case is reported



Final Measurement Detector 1

	Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
	0.150000	41.6	1000.00	9.000	On	N	9.5	24.4	66.0	
	0.469500	37.1	1000.00	9.000	On	N	9.4	19.4	56.5	
[0.721500	29.2	1000.00	9.000	On	N	9.4	26.8	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
0.465000	34.4	1000.00	9.000	On	N	9.4	12.2	46.6	
0.775500	26.6	1000.00	9.000	On	N	9.4	19.4	46.0	
1.261500	19.6	1000.00	9.000	On	N	9.4	26.4	46.0	·

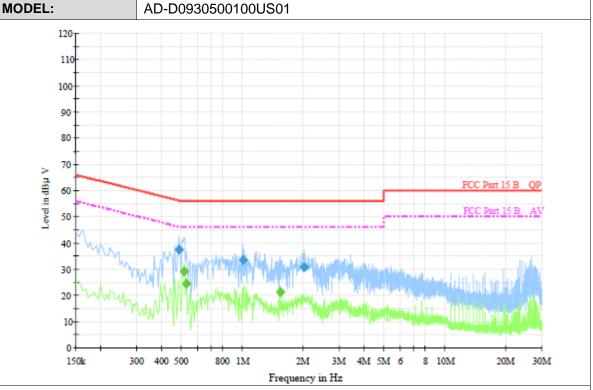
Emission Level = Read Level + Correct Factor



Test Voltage: AC 120V/60Hz

Terminal: Line

Remark: Only worse case is reported



Final Measurement Detector 1

Frequency (MHz)	/ QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.48300	0 37.4	1000.00	9.000	On	L1	9.5	18.9	56.3	
1.00050	0 33.4	1000.00	9.000	On	L1	9.5	22.6	56.0	
2.02200	0 30.6	1000.00	9.000	On	L1	9.5	25.4	56.0	

Final Measurement Detector 2

Г	Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit	Comment
1	(MHz)	(dBµ V)	Time	(kHz)			(dB)	(dB)	(dBµ	
1			(ms)						V)	
Γ	0.514500	29.3	1000.00	9.000	On	L1	9.5	16.7	46.0	
	0.528000	24.3	1000.00	9.000	On	L1	9.5	21.7	46.0	
	1.527000	21.4	1000.00	9.000	On	L1	9.5	24.6	46.0	

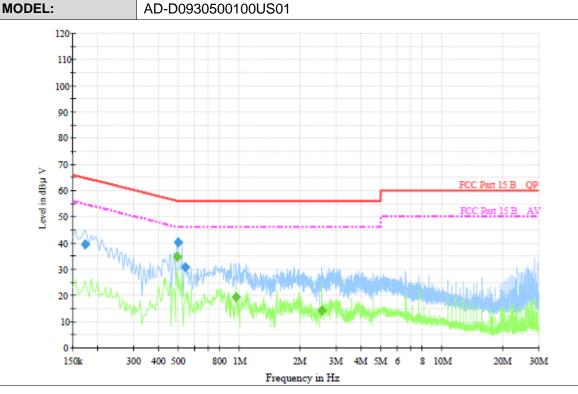
Emission Level = Read Level + Correct Factor



Test Voltage: AC 120V/60Hz

Terminal: Neutral

Remark: Only worse case is reported



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.172500	39.6	1000.00	9.000	On	N	9.5	25.2	64.8	
0.496500	40.2	1000.00	9.000	On	N	9.4	15.9	56.1	
0.537000	30.7	1000.00	9.000	On	N	9.4	25.3	56.0	

Final Measurement Detector 2

	Frequency (MHz)	Average (dBµ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ	Comment
			(ms)						V)	
[0.492000	34.7	1000.00	9.000	On	N	9.4	11.4	46.1	
[0.964500	19.4	1000.00	9.000	On	N	9.4	26.6	46.0	
	2.548500	14.4	1000.00	9.000	On	N	9.4	31.6	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

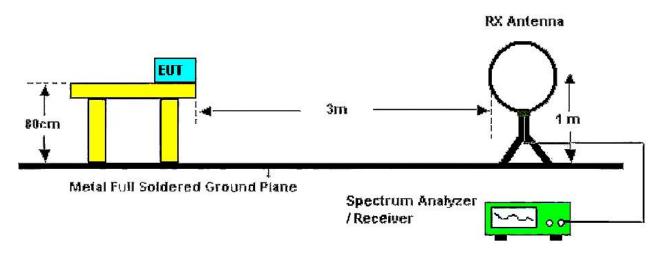
Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Fraguency Banga (MHz)	dBµV/m (at 3 meters)			
Frequency Range (MHz)	Peak	Average		
Above 1000	74	54		

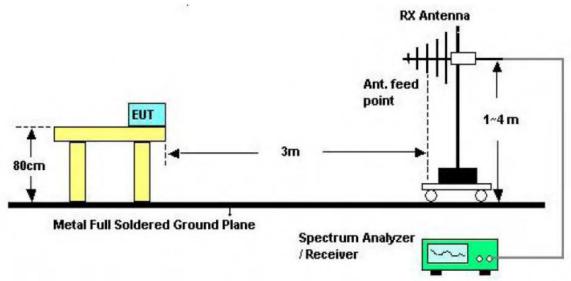
Note:

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

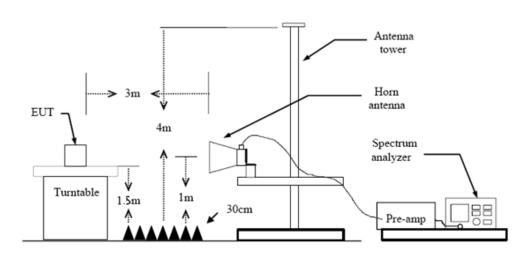
Test Configuration



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 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) 9k 150kHz:

RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold

(3) 0.15M – 30MHz:

RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold

(4) 30M - 1 GHz:

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

CTC Laboratories, Inc.



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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.

(5) From 1 GHz to 10th harmonic:

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 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 kHz~30 MHz

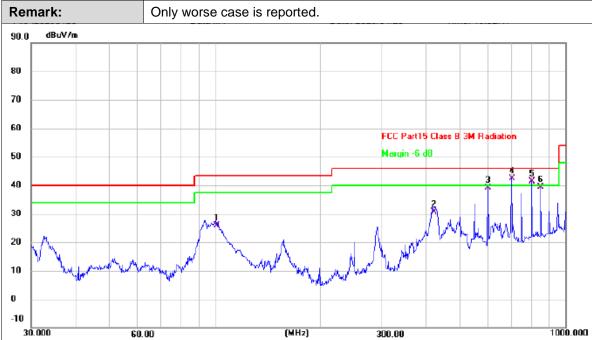
From 9 kHz to 30 MHz: The conclusion is PASS.

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

 Ant. No.
 Ant 1

 Ant. Pol.
 Horizontal

 Test Mode:
 TX 802.11b Mode 2412MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	100.9339	47.18	-21.33	25.85	43.50	-17.65	QP
2	422.0577	44.59	-13.92	30.67	46.00	-15.33	QP
3	601.4265	48.21	-8.97	39.24	46.00	-6.76	QP
4 *	701.7610	51.09	-8.72	42.37	46.00	-3.63	QP
5!	801.7863	46.95	-5.51	41.44	46.00	-4.56	QP
6	851.0353	44.75	-5.44	39.31	46.00	-6.69	QP

Remarks:

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



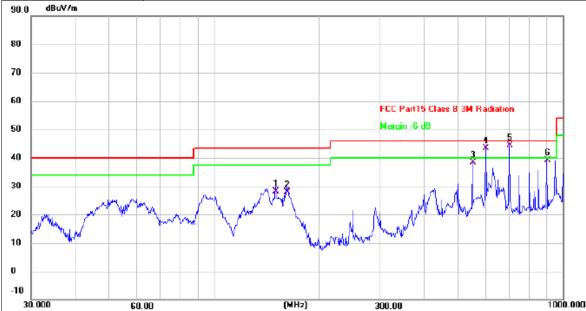
Ant. No. Ant 1

Ant. Pol. Vertical

Test Mode: TX 802.11b Mode 2412MHz

Remark: Only worse case is reported.

90.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	150.0108	45.60	-17.50	28.10	43.50	-15.40	QP
2	162.0414	45.57	-17.70	27.87	43.50	-15.63	QP
3	550.9480	48.93	-10.48	38.45	46.00	-7.55	QP
4!	601.4265	52.47	-8.97	43.50	46.00	-2.50	QP
5 *	701.7610	53.22	-8.72	44.50	46.00	-1.50	QP
6	900.1474	44.13	-5.02	39.11	46.00	-6.89	QP

Remarks:

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





Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4824.207	34.74	-3.36	31.38	54.00	-22.62	AVG
2	4824.481	47.41	-3.36	44.05	74.00	-29.95	peak

Remarks:

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

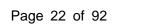
Ant. No.	Ant 1
Ant. Pol.	Vertical
Test Mode: TX 802.11b Mode 2412MHz	
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

ĺ	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
	1 *	4823.901	-5.08	36.50	31.42	54.00	-22.58	AVG
	2	4824.470	7.51	36.50	44.01	74.00	-29.99	peak

Remarks

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

2.Margin value = Level -Limit value





Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2437MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4874.330	34.39	-3.26	31.13	54.00	-22.87	AVG
2	4874.359	47.26	-3.26	44.00	74.00	-30.00	peak

Remarks:

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

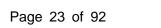
2.Margin value = Level -Limit value

Ant. No.	Ant 1
Ant. Pol.	Vertical
Test Mode: TX 802.11b Mode 2437MHz	
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.665	7.29	36.61	43.90	74.00	-30.10	peak
2 *	4873.936	-5.45	36.61	31.16	54.00	-22.84	AVG

Remarks:

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





Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2462MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.787	46.87	-3.16	43.71	74.00	-30.29	peak
2 *	4924.154	34.34	-3.16	31.18	54.00	-22.82	AVG

Remarks:

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

2.Margin value = Level -Limit value

Ant. No. Ant 1				
Ant. Pol. Vertical				
Test Mode:	TX 802.11b Mode 2462MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4923.613	-5.14	36.72	31.58	54.00	-22.42	AVG
2	4924.378	8.09	36.72	44.81	74.00	-29.19	peak

Remarks:

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





Ant. No.	Ant 1			
Ant. Pol. Horizontal				
Test Mode:	TX 802.11g Mode 2412MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.878	46.93	-3.36	43.57	74.00	-30.43	peak
2 *	4823.978	34.59	-3.36	31.23	54.00	-22.77	AVG

Remarks:

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

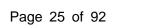
2.Margin value = Level -Limit value

Ant. No.	Ant 1			
Ant. Pol. Vertical				
Test Mode:	TX 802.11g Mode 2412MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4824.337	4.50	36.50	41.00	74.00	-33.00	peak
2 *	4824.337	-5.26	36.50	31.24	54.00	-22.76	AVG

Remarks:

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





Ant. No. Ant 1				
Ant. Pol. Horizontal				
Test Mode:	TX 802.11g Mode 2437MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

	Frequency	Reading	Factor	Level	Limit	Margin	
No.	(MHz)	(dBuV)		(dBuV/m)			Detector
1	4874.307	46.95	-3.26	43.69	74.00	-30.31	peak
2 *	4874.498	34.47	-3.26	31.21	54.00	-22.79	AVG

Remarks:

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

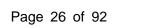
2.Margin value = Level -Limit value

Ant. No. Ant 1		
Ant. Pol. Vertical		
Test Mode:	TX 802.11g Mode 2437MHz	
Remark:	No report for the emission which more than 20 dB below the prescribed limit.	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4874.197	-5.47	36.61	31.14	54.00	-22.86	AVG
2	4874.344	7.83	36.61	44.44	74.00	-29.56	peak

Remarks:

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





Ant. No. Ant 1				
Ant. Pol.	Horizontal			
Test Mode:	TX 802.11g Mode 2462MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4924.143	47.18	-3.16	44.02	74.00	-29.98	peak
2 *	4924.472	34.50	-3.16	31.34	54.00	-22.66	AVG

Remarks:

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

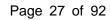
2.Margin value = Level -Limit value

Ant. No.	Ant 1				
Ant. Pol.	Vertical				
Test Mode:	TX 802.11g Mode 2462MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4923.621	-5.49	36.72	31.23	54.00	-22.77	AVG
2	4923.724	7.88	36.72	44.60	74.00	-29.40	peak

Remarks:

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





Ant. No.	Ant 1			
Ant. Pol.	Horizontal			
Test Mode:	TX 802.11n(HT20) Mode 2412MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.759	47.59	-3.36	44.23	74.00	-29.77	peak
2 *	4824.127	34.47	-3.36	31.11	54.00	-22.89	AVG

Remarks:

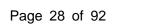
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

Ant. No.	Ant 1			
Ant. Pol.	Vertical			
Test Mode:	TX 802.11n(HT20) Mode 2412MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.753	7.30	36.50	43.80	74.00	-30.20	peak
2 *	4823.926	-5.35	36.50	31.15	54.00	-22.85	AVG

Remarks:

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





Ant. No.	Ant 1			
Ant. Pol. Horizontal				
Test Mode:	TX 802.11n(HT20) Mode 2437MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.615	48.04	-3.26	44.78	74.00	-29.22	peak
2 *	4873.729	34.28	-3.26	31.02	54.00	-22.98	AVG

Remarks:

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

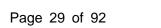
2.Margin value = Level -Limit value

Ant. No.	Ant 1				
Ant. Pol.	Vertical				
Test Mode:	TX 802.11n(HT20) Mode 2437MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4873.939	-5.48	36.61	31.13	54.00	-22.87	AVG
2	4874.446	8.53	36.61	45.14	74.00	-28.86	peak

Remarks:

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





Ant. No.	Ant 1				
Ant. Pol.	Horizontal				
Test Mode:	TX 802.11n(HT20) Mode 2462MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4923.538	34.48	-3.16	31.32	54.00	-22.68	AVG
2	4924.334	47.27	-3.16	44.11	74.00	-29.89	peak

Remarks:

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

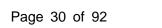
2.Margin value = Level -Limit value

Ant. No.	Ant 1			
Ant. Pol.	Vertical			
Test Mode:	TX 802.11n(HT20) Mode 2462MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

·									r
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	
	1	4923.872	8.27	36.72	44.99	74.00	-29.01	peak	
	2 *	4924.164	-5.40	36.72	31.32	54.00	-22.68	AVG	

Remarks:

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





Ant. No.	Ant 1			
Ant. Pol.	Horizontal			
Test Mode:	TX 802.11n(HT40) Mode 2422MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4923.919	34.51	-3.16	31.35	54.00	-22.65	AVG
2	4924.377	47.49	-3.16	44.33	74.00	-29.67	peak

Remarks:

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

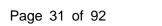
2.Margin value = Level -Limit value

Ant. No.	Ant 1		
Ant. Pol. Vertical			
Test Mode:	TX 802.11n(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4843.816	7.22	36.55	43.77	74.00	-30.23	peak
2 *	4844.034	-5.24	36.55	31.31	54.00	-22.69	AVG

Remarks:

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





Ant. No.	Ant 1			
Ant. Pol.	Horizontal			
Test Mode:	TX 802.11n(HT40) Mode 2437MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4873.743	34.36	-3.26	31.10	54.00	-22.90	AVG
2	4874.145	47.00	-3.26	43.74	74.00	-30.26	peak

Remarks:

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

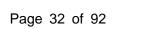
2.Margin value = Level -Limit value

Ant. No.	Ant 1				
Ant. Pol.	Vertical				
Test Mode:	TX 802.11n(HT40) Mode 2437MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4874.101	-5.61	36.61	31.00	54.00	-23.00	AVG
2	4874.133	8.20	36.61	44.81	74.00	-29.19	peak

Remarks:

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





Ant. No.	Ant 1				
Ant. Pol. Horizontal					
Test Mode:	TX 802.11n(HT40) Mode 2452MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

ĺ	Erogueney		Dooding	Footor	Factor Level		Morgin		
	No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	
	1 *	4904.042	34.52	-3.20	31.32	54.00	-22.68	AVG	
	2	4904.248	48.14	-3.20	44.94	74.00	-29.06	peak	

Remarks:

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1				
Ant. Pol.	Vertical				
Test Mode:	TX 802.11n(HT40) Mode 2452MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4903.888	-5.28	36.68	31.40	54.00	-22.60	AVG
2	4903.949	6.87	36.68	43.55	74.00	-30.45	peak

Remarks:

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



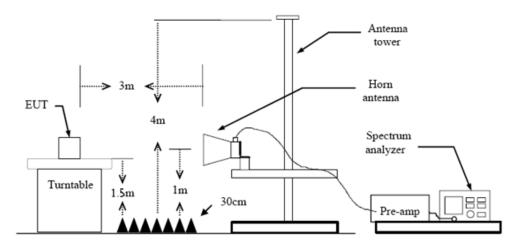
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

Restricted Frequency Band	(dBµV/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 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

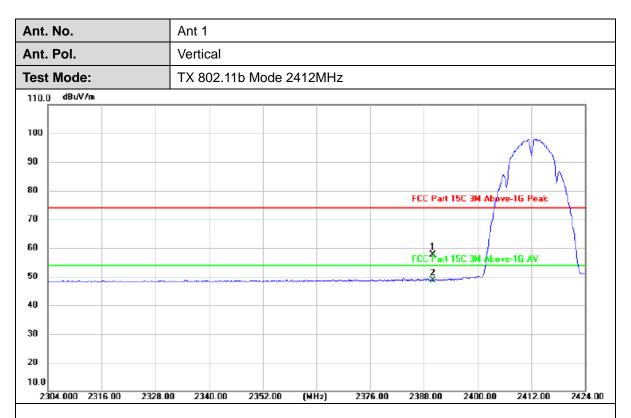
Ant. No.		A	Ant 1							
Ant. Pol.		H	Horizontal							
Test Mode:			TX 802.11b Mode 2412MHz							
110.0 dBuV	/m									
100										
90									1	
80							FCC Part	15C 3M Above	⊢1G Peak	\setminus
70										1
60								ISC 3M Above	-16 AV	1
50										
40										
30										
20										
10.0 2303.500	2315.50 23	27.50	2339.50	2351.50	(MHz)	2375.50	2387.50	2399.50	2411.50	242

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	
1	2390.000	26.48	31.08	57.56	74.00	-16.44	peak	
2 *	2390.000	17.20	31.08	48.28	54.00	-5.72	AVG	

Remarks:

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





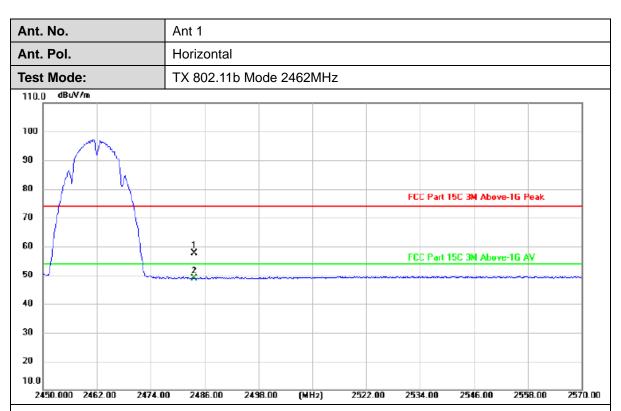
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	26.60	31.08	57.68	74.00	-16.32	peak
2 *	2390.000	17.66	31.08	48.74	54.00	-5.26	AVG

Remarks:

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

2.Margin value = Level -Limit value



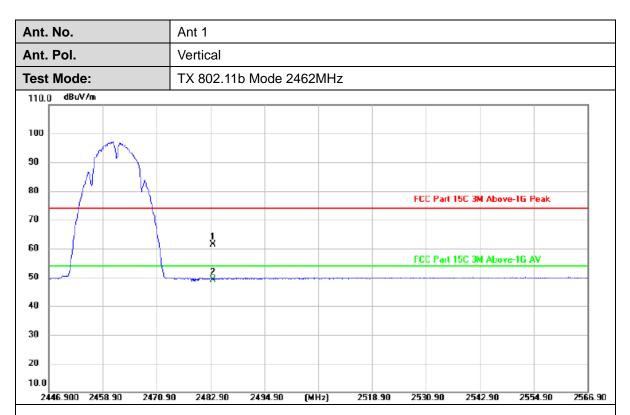


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	
1	2483.500	26.28	31.43	57.71	74.00	-16.29	peak	
2 *	2483.500	17.44	31.43	48.87	54.00	-5.13	AVG	

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)		Margin (dB)	Detector
1	2483.500	29.83	31.43	61.26	74.00	-12.74	peak
2 *	2483.500	17.82	31.43	49.25	54.00	-4.75	AVG

Remarks:

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



Ant. No. Ant 1 Horizontal Ant. Pol. **Test Mode:** TX 802.11g Mode 2412MHz dBuV/m 110.0 100 90 80 FCC Part 15C 3M Above-1G Peak 70 FCC Part 15C 3M Above-16 AV 60 50 40 30 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	
1	2390.000	28.06	31.08	59.14	74.00	-14.86	peak	Ī
2 *	2390.000	17.49	31.08	48.57	54.00	-5.43	AVG	

(MHz)

2375.50

2387.50

2399.50

2411.50

2423.50

Remarks:

2303.500 2315.50

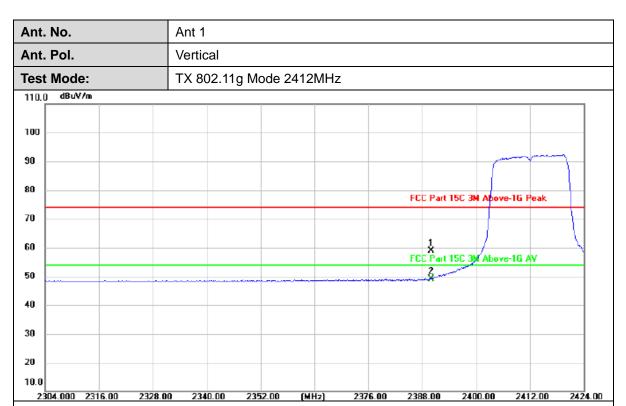
2327.50

2339.50

2351.50

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)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	27.68	31.08	58.76	74.00	-15.24	peak
2 *	2390.000	18.09	31.08	49.17	54.00	-4.83	AVG

Remarks:

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



Ant. No. Ant 1 Ant. Pol. Horizontal **Test Mode:** TX 802.11g Mode 2462MHz dBuV/m 110.0 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	27.06	31.43	58.49	74.00	-15.51	peak
2 *	2483.500	17.27	31.43	48.70	54.00	-5.30	AVG

(MHz)

2522.00

2534.00

2546.00

2558.00

2570.00

Remarks

2450.000 2462.00

2474.00

2486.00

2498.00

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



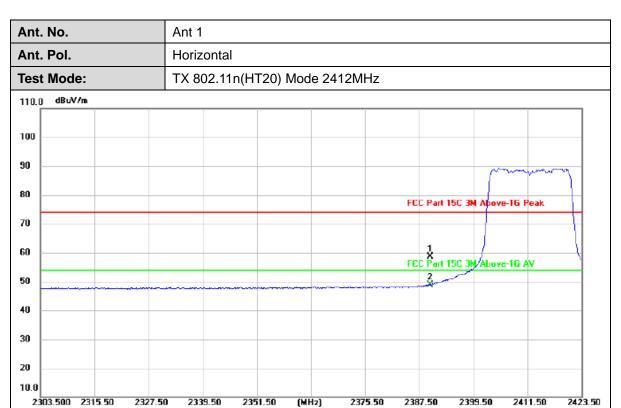
Ant. No. Ant 1 Ant. Pol. Vertical **Test Mode:** TX 802.11g Mode 2462MHz 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20 2446.900 2458.90 2470.90 2482.90 2494.90 (MHz) 2518.90 2530.90 2542.90 2554.90 2566.90

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	28.14	31.43	59.57	74.00	-14.43	peak
2 *	2483.500	17.89	31.43	49.32	54.00	-4.68	AVG

Remarks:

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



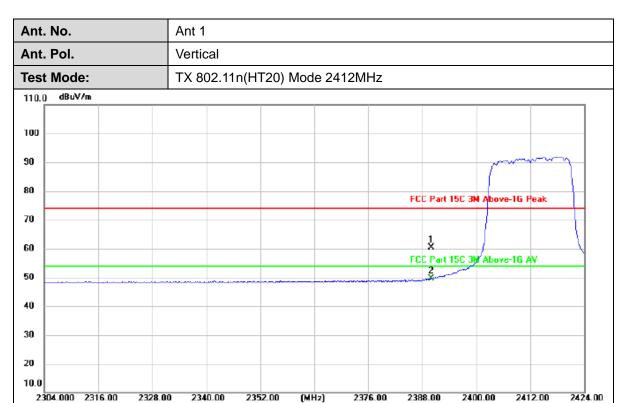


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	27.58	31.08	58.66	74.00	-15.34	peak
2 *	2390.000	17.74	31.08	48.82	54.00	-5.18	AVG

Remarks:

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



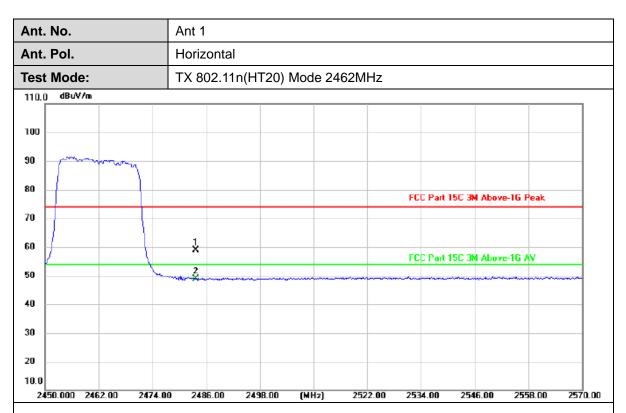


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	29.34	31.08	60.42	74.00	-13.58	peak
2 *	2390.000	18.43	31.08	49.51	54.00	-4.49	AVG

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)		Margin (dB)	Detector
1	2483.500	27.45	31.43	58.88	74.00	-15.12	peak
2 *	2483.500	17.50	31.43	48.93	54.00	-5.07	AVG

Remarks:

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



Ant. No. Ant 1 Ant. Pol. Vertical **Test Mode:** TX 802.11n(HT20) Mode 2462MHz dBuV/m 110.0 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20 2446.900 2458.90 2566.90 2470.90 2482.90 2494.90 (MHz) 2518.90 2530.90 2542.90 2554.90

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	27.19	31.43	58.62	74.00	-15.38	peak
2 *	2483.500	18.15	31.43	49.58	54.00	-4.42	AVG

Remarks:

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



Ant. No. Ant 1 Horizontal Ant. Pol. **Test Mode:** TX 802.11n(HT40) Mode 2422MHz dBuV/m 110.0 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60FCC Part 15C 3M Above-1G AV 50 40 30 20 10.0 2294.500 2309.50 2324.50 2339.50 2384.50 2414.50 2444.50 2354.50 (MHz) 2399.50 2429.50

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	27.80	31.08	58.88	74.00	-15.12	peak
2 *	2390.000	17.73	31.08	48.81	54.00	-5.19	AVG

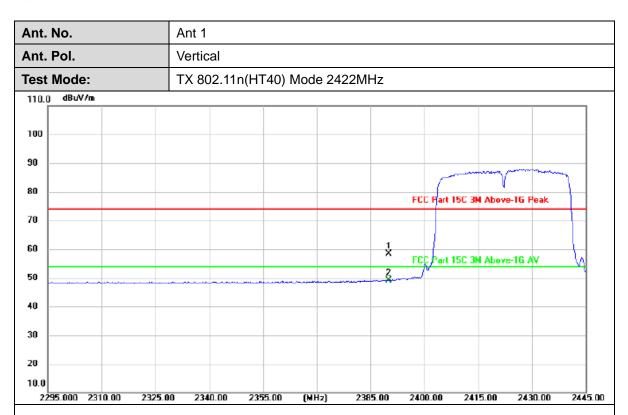
Remarks

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)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	27.35	31.08	58.43	74.00	-15.57	peak
2 *	2390.000	18.07	31.08	49.15	54.00	-4.85	AVG

Remarks:

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



Ant. No. Ant 1 Ant. Pol. Horizontal **Test Mode:** TX 802.11n(HT40) Mode 2452MHz dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20 10.02428.000 2443.00 2458.00 2473.00 2488.00 (MHz) 2518.00 2533.00 2548.00 2563.00 2578.00

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	27.19	31.43	58.62	74.00	-15.38	peak
2 *	2483.500	17.70	31.43	49.13	54.00	-4.87	AVG

Remarks:

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



Ant. No. Ant 1 Ant. Pol. Vertical **Test Mode:** TX 802.11n(HT40) Mode 2452MHz 110.0 dBuV/m 100 90 80 FCC Part 15C 3M Above-1G Peak 70 60 FCC Part 15C 3M Above-1G AV 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	28.23	31.43	59.66	74.00	-14.34	peak
2 *	2483.500	17.98	31.43	49.41	54.00	-4.59	AVG

(MHz)

2519.50

2534.50

2549.50

2564.50

2579.50

Remarks:

10.0

2429.500 2444.50

2459.50

2474.50

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

2489.50



3.4. Band Edge and Spurious Emissions (Conducted)

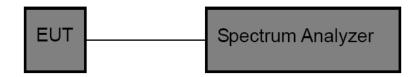
Limit

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 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.

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Test Configuration



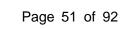
Test Procedure

- 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.

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Test Result

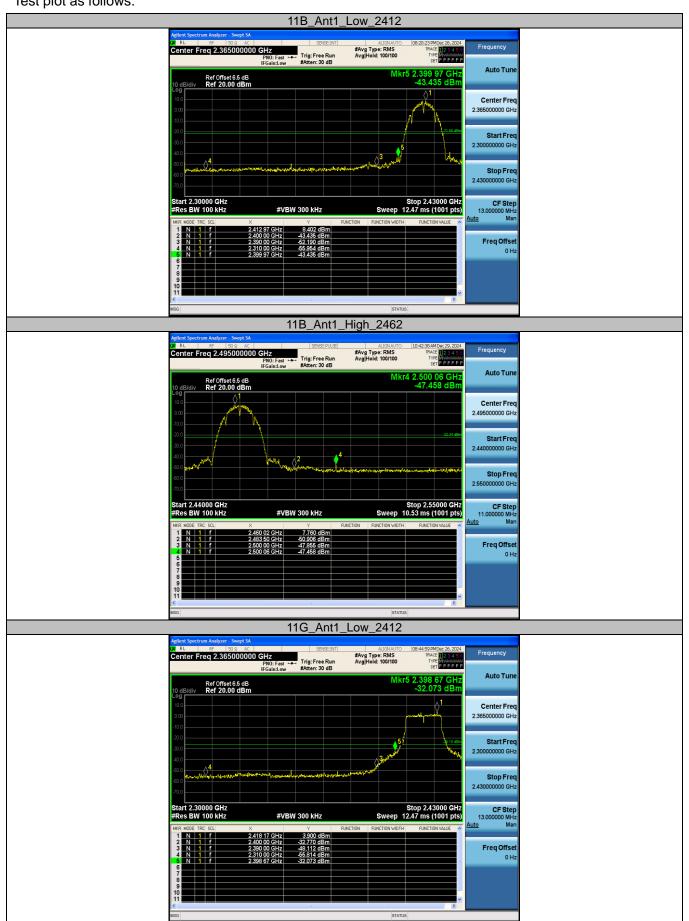
(1) Band Edge Conducted Test

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
440	Ant1	Low	2412	8.40	-43.44	≤-21.6	PASS
11B		High	2462	7.76	-47.46	≤-22.24	PASS
11G	Ant1	Low	2412	3.90	-32.07	≤-26.1	PASS
110		High	2462	3.97	-43.31	≤-26.03	PASS
11N20SISO	Ant1	Low	2412	3.74	-31.42	≤-26.26	PASS
1111/203130		High	2462	4.54	-41.35	≤-25.46	PASS
11N40SISO	Ant1	Low	2422	0.95	-33.12	≤-29.05	PASS
1111403130		High	2452	0.48	-40.66	≤-29.52	PASS

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Test plot as follows:

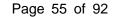














(2) Conducted Spurious Emissions Test

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		2412	Reference	7.63	7.63		PASS
	Ant1		30~1000	7.63	-56.61	≤-22.37	PASS
			1000~26500	7.63	-26.95	≤-22.37	PASS
		2437	Reference	7.49	7.49		PASS
11B			30~1000	7.49	-57.17	≤-12.51	PASS
			1000~26500	7.49	-32.51	≤-12.51	PASS
		2462	Reference	6.14	6.14		PASS
			30~1000	6.14	-57.07	≤-13.86	PASS
			1000~26500	6.14	-33.79	≤-13.86	PASS
		2412	Reference	1.21	1.21		PASS
			30~1000	1.21	-57.43	≤-28.79	PASS
			1000~26500	1.21	-37.01	≤-28.79	PASS
			Reference	3.31	3.31		PASS
11G	Ant1	2437	30~1000	3.31	-56.85	≤-16.69	PASS
			1000~26500	3.31	-42.39	≤-16.69	PASS
		2462	Reference	1.13	1.13		PASS
			30~1000	1.13	-57.09	≤-18.87	PASS
			1000~26500	1.13	-42.49	≤-18.87	PASS
	Ant1	2412	Reference	4.07	4.07		PASS
			30~1000	4.07	-57.34	≤-25.93	PASS
			1000~26500	4.07	-35.63	≤-25.93	PASS
		2437 2462	Reference	3.13	3.13		PASS
11N20SISO			30~1000	3.13	-57.4	≤-16.87	PASS
			1000~26500	3.13	-42.45	≤-16.87	PASS
			Reference	3.56	3.56		PASS
			30~1000	3.56	-57.09	≤-16.44	PASS
			1000~26500	3.56	-42.86	≤-16.44	PASS
	Ant1	2422	Reference	0.02	0.02		PASS
			30~1000	0.02	-56.7	≤-19.98	PASS
			1000~26500	0.02	-41.88	≤-19.98	PASS
		2437	Reference	0.82	0.82		PASS
11N40SISO			30~1000	0.82	-56.71	≤-29.18	PASS
			1000~26500	0.82	-44.35	≤-29.18	PASS
		2452	Reference	0.17	0.17		PASS
			30~1000	0.17	-57.01	≤-29.83	PASS
l					1		

1000~26500

0.17

-45.14

PASS

≤-29.83

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Test plot as follows:

