TEST REPORT

Reference No	:	WTS15S0934202E
FCC ID	:	2AFOYL553AN
Applicant	:	Le Shi Zhi Xin Electronic Technology (Tian jin) Limited
Address	:	201-427 2F B1 District, Anime building,No.126 Anime Middle Road, Eco-city Tianjin, China
Manufacturer	:	TPV Technology(Qingdao) Co.,Ltd
Address	:	NO.99 Huoju Road, High-tech Industrial Development Zone, Qingdao City, Shandong Province, China(PRC)
Product Name	:	Letv Super TV
Model No	:	L553AN, L55***(* can be A to Z(a-z), 0 to 9, "+","-", "." or blank, series model name is same to each other except for model designation for market issue.)
Trade Mark	:	Letv
Standards	:	FCC CFR47 Part 15 Section 15.249: 2014
Date of Receipt sample	:	Aug. 27, 2015
Date of Test	:	Aug. 28, 2015 – Sep. 19, 2015
Date of Issue		Sep.21, 2015

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

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Compiled by:

Date of Issue......

Test Result.....

Approved by:

Pass

Zero Zhou / Test Engineer

Philo Zhong

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2 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207	PASS
	15.249(a)	
Radiated Emission	15.209	PASS
	15.205(a)	
Periodic Operation	15.35(c)	PASS
	15.249	
Outside of Band Emission	15.205	PASS
	15.209	
20dB Bandwidth	15:215(c)	PASS
Antenna Requirement	15.203	PASS

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4 General Information

4.1 General Description of E.U.T.

Product Name: Letv Super TV

Model No.: L553AN, L55***(* can be A to Z(a-z), 0 to 9, "+","-", "." or blank,

series model name is same to each other except for model

designation for market issue.)

Model Description: Only the model names are different, The L553AN is tested model.

Operation Frequency: IEEE 802.11b/g/n(HT20):2412MHz ~ 2462MHz

IEEE 802.11n(HT40):2422MHz~2452MHz

IEEE 802.11a/ n(HT20/40)/ac(HT20/40/80): 5150MHz to 5250MHz IEEE 802.11a/ n(HT20/40)/ac(HT20/40/80): 5725MHz to 5850MHz

BT: 2402-2480MHz SRD: 2402-2480MHz

Type of modulation: IEEE 802.11b DSSS(CCK/QPSK/BPSK)

IEEE 802.11g OFDM(BPSK/QPSK/16QAM/64QAM)
IEEE 802.11n OFDM(BPSK/QPSK/16QAM/64QAM)
IEEE for 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM)
IEEE for 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM)

IEEE for 802.11ac: OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)

BT: GFSK,PI/4-DQPSK,8DPSK

SRD: GFSK

The lowest oscillator: 12MHz

Antenna installation: internal permanent antenna

Antenna Gain: 2.4GHz WIFI:3.2 dBi

5.2GHz WIFI:2.8 dBi 5.8GHz WIFI:4.5 dBi 2.4GHz BT:3.1 dBi 2.4GHz SRD:3.1 dBi

4.2 Details of E.U.T.

Technical Data: AC 120V~60Hz, 155W

4.3 Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

4.4 Test Facility

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

• IC - Registration No.:7760A-1

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A-1, July 12, 2012.

• FCC Test Site 1#- Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. 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 880581, April 29, 2014.

• FCC Test Site 2#- Registration No.: 328995

Waltek Services(Shenzhen) Co., Ltd. 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 328995, December 3, 2014.

4.4.1 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Lower channel	Middle channel	Upper channel
Transmitting	2402MHz	2441MHz	2480MHz

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5 Equipment Used during Test

5.1 Equipments List

3m Se	mi-anechoic Chaml	ber for Radiation				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY4511494 3	Sep.15,2014	Sep.14,2015
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2014	Sep.14,2015
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2015	Apr.18,2016
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	Sep.15,2014	Sep.14,2015
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2015	Apr.18,2016
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2015	Apr.18,2016
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016
8	Coaxial Cable (above 1GHz)	Тор	25MHz-18GHz	EW02014-7	Apr.10,2015	Apr.09,2016

5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁶
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
	± 5.03 dB
Radiated Spurious	(Bilog antenna 30M~1000MHz)
Emissions test	± 5.47 dB
	(Horn antenna 1000M~25000MHz)

5.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

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6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.4:2003

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: 66-56 dB_µV between 0.15MHz & 0.5MHz

 $56~dB\mu V$ between 0.5MHz~&~5MHz $60~dB\mu V$ between 5MHz~&~30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment:

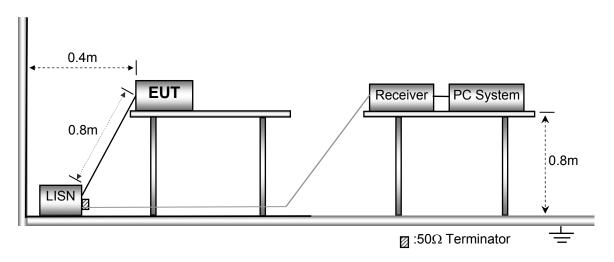
Temperature: 25.5 °C
Humidity: 51 % RH
Atmospheric Pressure: 101.2kPa

EUT Operation:

The test was performed in transmitting mode, the test data were shown in the report.

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.

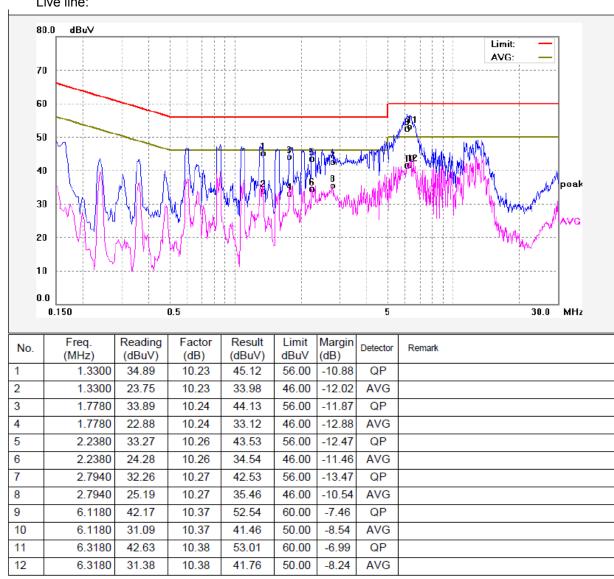


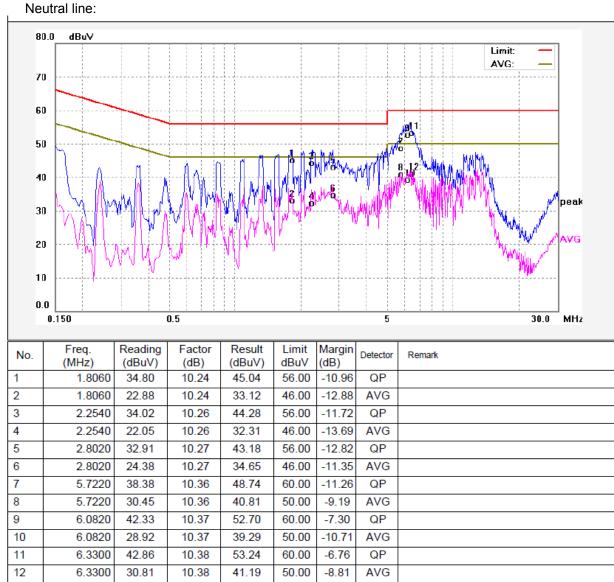
6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.4 Test Result

Live line:





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7 Radiation Emission Test

Test Requirement: FCC Part15 Paragraph 15.249

Test Method: ANSI 63.4: 2003

Measurement Distance: 3m

Test Result: PASS

15.249(a)Limit:

Fundamental frequency	Field strength	of fundamental	Field strength of harmonics		
	mV/m	dBuV/m	uV/m	dBuV/m	
902-928 MHz	50	94	500	54	
2400-2483.5 MHz	50	94	500	54	
5725-5875 MHz	50	94	500	54	
24.0-24.25 GHz	250	108	2500	68	

15.209 Limit:

_	Field Stre	ngth	Field Strength Limit at 3m Measurement Dist		
Frequency (MHz)	uV/m	Distance (m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

Note: RF Voltage(dBuV)=20 log₁₀ RF Voltage(uV)

7.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 51.1 % RH
Atmospheric Pressure: 101.2kPa

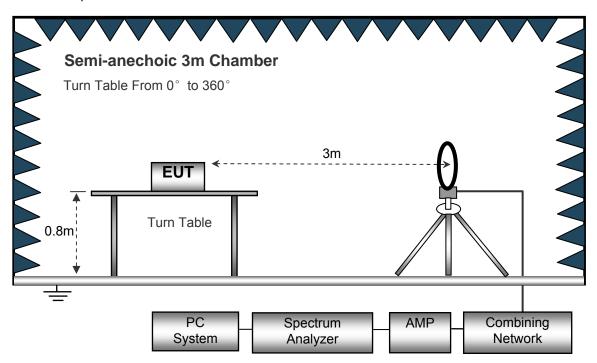
EUT Operation:

The test was performed in transmitting mode, the test data were shown in the report.

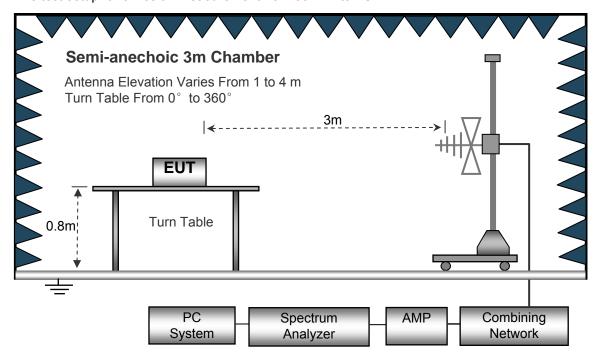
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



Aechoic 3m Chamber

Antenna Elevation Varies From 1 to 4 m
Turn Table From 0° to 360°

Turn Table

Absorbers

Spectrum

Analyzer

Combining

Network

AMP

The test setup for emission measurement above 1 GHz.

PC

System

7.3 Spectrum Analyzer Setup

Below 30MHz		
	Sweep Speed	Auto
	IF Bandwidth	10kHz
	Video Bandwidth	10kHz
	Resolution Bandwidth	10kHz
30MHz ~ 1GHz	<u>z</u>	
	Sweep Speed	Auto
	Detector	PK
	Resolution Bandwidth	100kHz
	Video Bandwidth	300kHz
Above 1GHz		
	Sweep Speed	Auto
	Detector	PK
	Resolution Bandwidth	1MHz
	Video Bandwidth	3MHz
	Detector	Ave.
	Resolution Bandwidth	1MHz
	Video Bandwidth	10Hz

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7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.

- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

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7.5 Test Result

AV = Peak +20Log10(duty cycle) =PK-39.57 [refer to section 8 for more detail]

Test Frequency :Below 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz
Test Mode: Low channel Transmitting

Ereguency Receiver		Receiver Detector		RX Antenna		Correcte	Corrected	FCC Part 15.249	
Frequency	Reading	Detector	table Angle	Height	Polar	d Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
302.56	39.21	QP	299	1.4	٧	-11.40	27.81	40.00	-12.19
2402.00	106.55	PK	217	1.4	Η	-12.61	93.94	114.00	-20.06
2402.00	100.27	PK	357	2.0	>	-12.61	87.66	114.00	-26.34
4804.00	65.25	PK	100	1.7	Ι	0.09	65.34	74.00	-8.66
4804.00	64.82	PK	132	1.7	>	0.09	64.91	74.00	-9.09
7206.00	58.49	PK	113	1.0	Ι	3.01	61.50	74.00	-12.50
7206.00	56.57	PK	136	1.2	٧	3.01	59.58	74.00	-14.42
9608.00	59.69	PK	359	1.8	Η	5.39	65.08	74.00	-8.92
9608.00	55.66	PK	242	1.7	٧	5.39	61.05	74.00	-12.95

Frequency	PK	Turn table Angle	RX Ar	itenna	Duty cycle	AV	FCC 15.2	
		Angle	Height	Polar	Factor		Limit	Margin
(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2402.00	93.94	217	1.4	Н	-39.57	54.37	94.00	-39.63
2402.00	87.66	357	2.0	V	-39.57	48.09	94.00	-45.91
4804.00	65.34	100	1.7	Н	-39.57	25.77	54.00	-28.23
4804.00	64.91	132	1.7	>	-39.57	25.34	54.00	-28.66
7206.00	61.50	113	1.0	Н	-39.57	21.93	54.00	-32.07
7206.00	59.58	136	1.2	V	-39.57	20.01	54.00	-33.99
9608.00	65.08	359	1.8	Н	-39.57	25.51	54.00	-28.49
9608.00	61.05	242	1.7	V	-39.57	21.48	54.00	-32.52

Test Mode: Middle channel Transmitting

F	Receiver	Detector	Turn	RX An	tenna	Correcte	Corrected	FCC Part 15.249	
Frequency	Reading	Detector	table Angle	e d Factor A		Amplitude	Limit	Margin	
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
302.62	39.21	QP	353	2.0	٧	-11.40	27.81	40.00	-12.19
2441.00	105.28	PK	347	1.7	Н	-12.61	92.67	114.00	-21.33
2441.00	100.33	PK	118	1.2	٧	-12.61	87.72	114.00	-26.28
4882.00	66.35	PK	168	1.9	Ι	0.09	66.44	74.00	-7.56
4882.00	64.87	PK	351	1.7	>	0.09	64.96	74.00	-9.04
7323.00	58.49	PK	275	1.6	Н	3.01	61.50	74.00	-12.50
7323.00	56.57	PK	183	1.4	٧	3.01	59.58	74.00	-14.42
9764.00	59.69	PK	157	1.4	Τ	5.39	65.08	74.00	-8.92
9764.00	55.66	PK	327	1.0	>	5.39	61.05	74.00	-12.95

	DIA	Turn table	RX Antenna		Duty cycle	A)/	FCC Part 15.249	
Frequency	PK	Angle	Height	Polar	Factor	AV	Limit	Margin
(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2441.00	92.67	347	1.7	Н	-39.57	53.10	94.00	-40.90
2441.00	87.72	118	1.2	V	-39.57	48.15	94.00	-45.85
4882.00	66.44	168	1.9	Н	-39.57	26.87	54.00	-27.13
4882.00	64.96	351	1.7	V	-39.57	25.39	54.00	-28.61
7323.00	61.50	275	1.6	Н	-39.57	21.93	54.00	-32.07
7323.00	59.58	183	1.4	V	-39.57	20.01	54.00	-33.99
9764.00	65.08	157	1.4	Н	-39.57	25.51	54.00	-28.49
9764.00	61.05	327	1.0	V	-39.57	21.48	54.00	-32.52

Test Mode: High channel Transmitting

Fraguanay	Receiver	Detector	Turn	RX An	tenna	Correcte	Corrected	FCC Part 15.249	
Frequency	Reading	Detector	table Angle	Height	Polar	d Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
302.73	39.25	QP	93	1.4	V	-11.40	27.85	40.00	-12.15
2480.00	103.16	PK	332	1.3	Ι	-12.61	90.55	114.00	-23.45
2480.00	101.68	PK	4	1.7	>	-12.61	89.07	114.00	-24.93
4960.00	71.24	PK	112	1.1	Ι	0.09	71.33	74.00	-2.67
4960.00	60.60	PK	238	1.8	>	0.09	60.69	74.00	-13.31
7440.00	58.49	PK	359	1.5	Τ	3.01	61.50	74.00	-12.50
7440.00	56.57	PK	198	1.1	>	3.01	59.58	74.00	-14.42
9920.00	59.69	PK	203	1.4	Η	5.39	65.08	74.00	-8.92
9920.00	55.66	PK	68	1.9	V	5.39	61.05	74.00	-12.95

Fraguanay	PK	Turn table	RX Antenna		Duty cycle	AV	FCC 15.2	
Frequency	FK	Angle	Height	Polar	Factor	AV	Limit	Margin
(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2480.00	90.55	332	1.3	Н	-39.57	50.98	94.00	-43.02
2480.00	89.07	4	1.7	V	-39.57	49.50	94.00	-44.50
4960.00	71.33	112	1.1	Н	-39.57	31.76	54.00	-22.24
4960.00	60.69	238	1.8	>	-39.57	21.12	54.00	-32.88
7440.00	61.50	359	1.5	Н	-39.57	21.93	54.00	-32.07
7440.00	59.58	198	1.1	V	-39.57	20.01	54.00	-33.99
9920.00	65.08	203	1.4	Н	-39.57	25.51	54.00	-28.49
9920.00	61.05	68	1.9	V	-39.57	21.48	54.00	-32.52

Test Frequency :From 18GHz to 25GHz

The measurements were more than 20 dB below the limit and not reported.

8 Periodic Operation

The duty cycle was determined by the following equation:

To calculate the actual field intensity, the duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

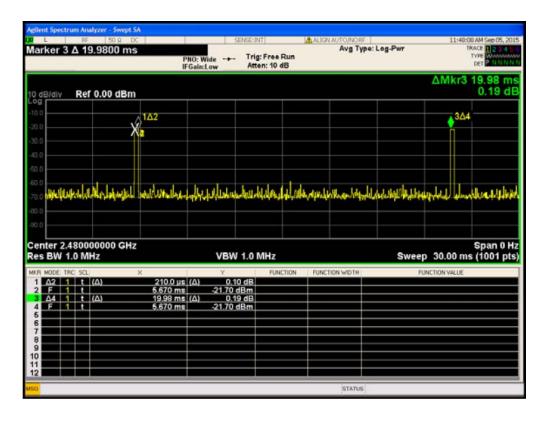
Duty Cycle(%)=Total T_{on} time / Length of a complete pulse train *100 % Duty Cycle Correction Factor(dB)=20 * Log₁₀(Duty Cycle(%))

Total T _{on} time(ms)	0.21
Length of a complete transmission period(ms)	19.8
Duty Cycle(%)	1.10
Duty Cycle Correction Factor(dB)	-39.57

Refer to the duty cycle plot (as below), This device meets the FCC requirement.

Length of a complete pulse train:

Remark: FCC part15.35(c) when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.



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9 Outside of Band Emission

Test Requirement: 15.249(d):Emissions radiated outside of the specified frequency

bands, except for harmonics, shall be attenuated by at least 50 $\ensuremath{\text{dB}}$

below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

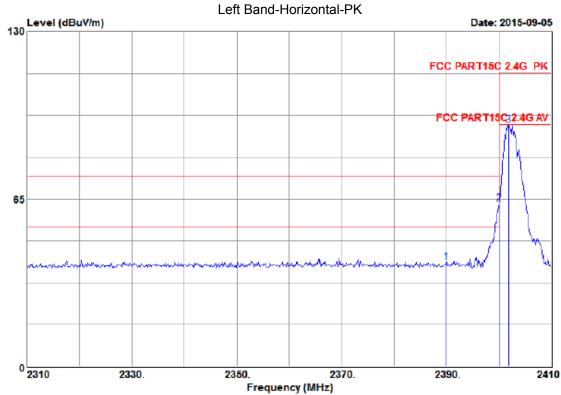
Test Method: ANSI C63.4:2003

Test Mode: Transmitting

9.1 Test Procedure

Refer to section 7.4 of this test report.

9.2 Test Result

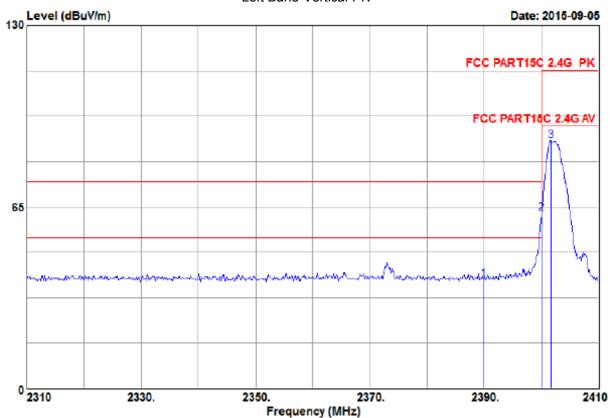


Frequency	Receiver Reading Apple	RX Antenna		Corrected	Corrected	FCC Part	209/249	
	Reading	Angle	Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	53.87	0	1.4	Н	-13.22	40.65	74.00	-33.35
2400.00	76.96	151	1.1	Н	-13.19	63.77	74.00	-10.23
2401.84	106.63	25	1.5	Н	-13.08	93.55	114.00	-20.45

Left Band-Horizontal -AV

Frequenc	PK	Turn	RX Ar	ntenna	Duty	AV	FCC	Part
у		table			cycle		15.231/2	209/205
		Angle	Height	Polar	Factor		Limit	Margin
(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2400.00	63.77	41	1.0	Н	-39.57	24.20	54.00	-29.80

Left Band-Vertical-PK

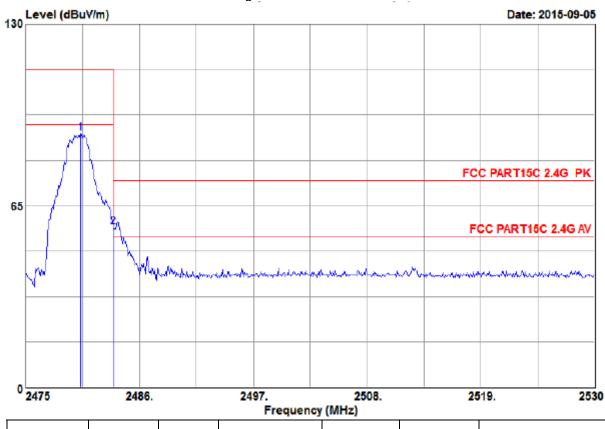


Frequency	Receiver Turn table		RX Antenna		Corrected	Corrected	FCC Part	rt 209/249	
. ,	Reading	eading Angle Angle		Polar	Factor	Amplitude	Limit	Margin	
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
2390.00	52.66	107	2.0	V	-13.22	39.44	74.00	-34.56	
2400.00	75.48	292	1.2	V	-13.19	62.29	74.00	-11.71	
2401.91	101.57	182	1.1	V	-13.08	88.49	114.00	-25.51	

Left Band-Vertical -AV

Frequenc	PK	Turn	RX Antenna		Duty	AV	FCC	Part		
у		table			cycle		15.231/2	209/205		
		Angle	Height	Polar	Factor		Limit	Margin		
(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2400.00	62.29	299	1.2	V	-39.57	22.72	54.00	-31.28		

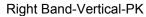
Right Band-Horizontal-PK

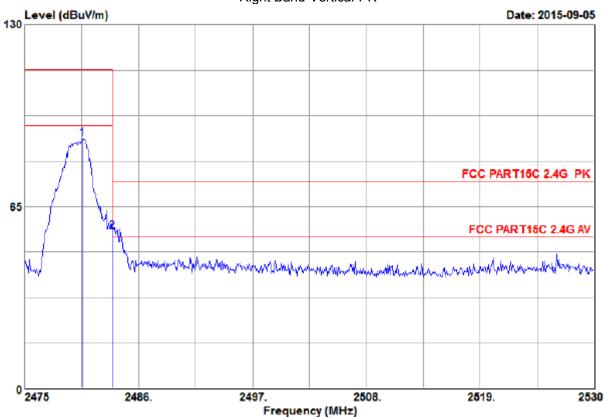


Frequency	Receiver Reading Turn	_	RX Antenna		Corrected	Corrected	FCC Part 209/249	
, ,	Reading	Angle			Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
2480.33	103.26	215	1.3	Н	-12.61	90.65	114.00	-23.35
2483.50	70.14	16	1.2	Н	-12.53	57.61	74.00	-16.39

Right Band-Horizontal -AV

-	Tight Baha Honzontal 71										
	Frequenc	PK	Turn	RX Antenna		Duty	AV	FCC	Part		
	у		table			cycle		15.231/2	209/205		
			Angle	Height Polar		Factor		Limit	Margin		
	(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
	2483.50	57.61	345	1.2	Н	-39.57	18.04	54.00	-35.96		





Frequency	Receiver Reading	Turn table Angle	RX Antenna		Corrected	Corrected	FCC Part 209/249	
			Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
2480.33	102.54	148	1.5	V	-12.61	89.93	114.00	-24.07
2483.50	68.27	338	1.4	V	-12.53	55.74	74.00	-18.26

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Frequenc	PK	Turn	RX Antenna		Duty	AV	FCC Part	
У		table			cycle		15.231/209/205	
		Angle	Height	Polar	Factor		Limit	Margin
(MHz)	(dBµV/m)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2483.50	55.74	19	1.8	V	-39.57	16.17	54.00	-37.83

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10 20 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.215(c)

Test Method: ANSI C63.4:2003

Test Mode: Transmitting

10.1 Test Procedure

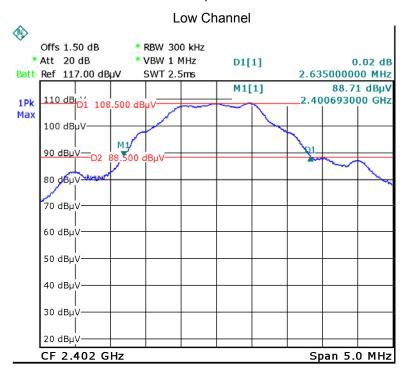
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

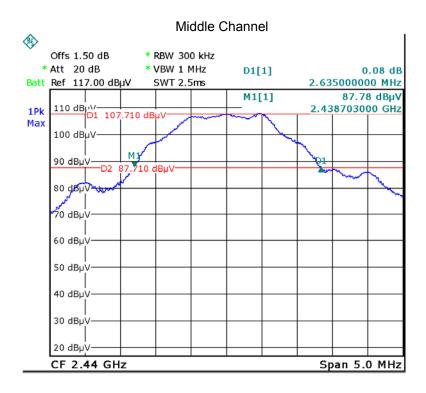
2. Set the spectrum analyzer: RBW = 300kHz, VBW = 1000kHz

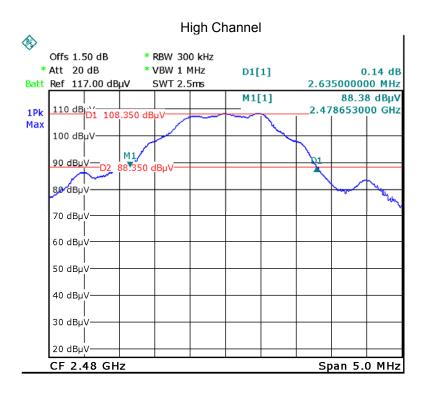
10.2 Test Result

Test Channel	Bandwidth		
low	2635.0kHz		
Middle	2635.0kHz		
high	2635.0kHz		

Test plots







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11 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has a integrated, fulfil the requirement of this section.

====End of Report=====