

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC153898

1 of 3 Page:

FCC Radio Test Report FCC ID: 2AL8K-H4

Original Grant

Report No. TB-FCC153898

Applicant NZS Inc. DBA Clary Icon

Equipment Under Test (EUT)

EUT Name Interactive Touch Screen

Model No. H4 OneScreen

H* OneScreen (*can be A-Z,0-9,or space, or dash) Series Model No.

Brand Name One Screen

Receipt Date 2017-05-06

Test Date 2017-05-07 to 2017-05-26

Issue Date 2017-05-27

Standards FCC Part 15, Subpart C (15.247:2016)

Test Method ANSI C63.10: 2013

PASS Conclusions

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer

Approved& **Authorized**

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0





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1. General Information about EUT

1.1 Client Information

Applicant: NZS Inc. DBA Clary Icon

Address : 224 Ferris Square, Suite C, San Diego, California, United States

Manufacturer : Shenzhen Konka E-display Co.,Ltd

Address : 22A, KONKA Building, South Technology Road No.12th, High-tech

Industrial Park, Nanshan, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name		Interactive Touch Scree	en	
Models No.		H4 OneScreen, H* One	eScreen(*can be A-Z,0-9,or space, or dash)	
Model Difference	-5		entical in the same PCB layout and electrical ice is model name for commercial.	
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz	
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40):7 channels see note(3)	
Product		RF Output Power:	802.11b: 19.16 dBm 802.11g: 15.80 dBm 802.11n (HT20): 14.90 dBm 802.11n (HT40): 13.37 dBm	
Description		Antenna Gain:	5 dBi Dipole Antenna	
		Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)	
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps	
Power Supply		AC Voltage supplied		
Power Rating		Input: AC 100~240V, 5	0/60Hz, 5A	
Connecting I/O Port(S)		Please refer to the Use		

Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:



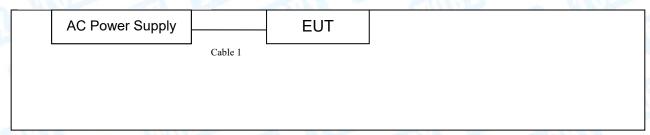
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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note: CH 01~CH 1	1 for 802.11b/g/n(HT2	20), CH 03~CH 09 fo	r 802.11n(HT40)		

(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

Normal Mode/TX Mode



1.4 Description of Support Units

	E	Equipment Informa	tion	
Name	Model	FCC ID/VOC	Manufacturer	Used "√"
	THE PROPERTY OF			
		Cable Information		
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	NO	NO	1.8M	MODE

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For (Conducted Test
Final Test Mode	Description
Mode 1	Normal Mode with TX B Mode



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	For Radiated Test
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps) 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixation unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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1.6 Description of Test Software Setting

During testing channel&Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version		RtkWiFiTest-v1.8.1	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dadiated Emission	Level Accuracy:	14 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	14 40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	±4.20 dB
Naulateu Elliission	Above 1000MHz	14.20 UD



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1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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2. Test Summary

	FCC Part	t 15 Subpart C(15.247)/ RSS 247	Issue 1	
Standa	rd Section	Test Item	ludament	Remark
FCC	IC	rest item	Judgment	Remark
15.203		Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247	6dB Bandwidth	PASS	N/A
15.247(b)	5.2 (1) RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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3. Test Equipment

Conducte	d Emission Te	st			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 201
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 201
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.25, 2017	Mar. 24, 201
Pre-amplifier	HP	8449B	3008A00849	Mar.24, 2017	Mar. 23, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.25, 2017	Mar. 24, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	Conducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

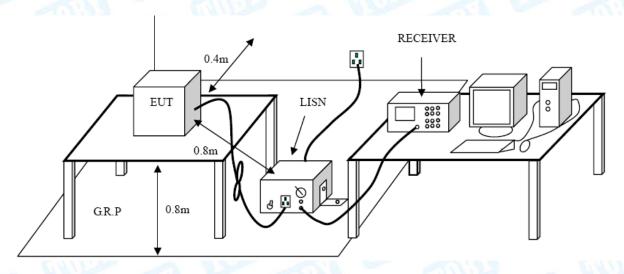
Conducted Emission Test Limit

Funnamental	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.



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EUT:	Interactive Touch	n Screen	Model Name :		H4 (OneScreen
Temperature:	25 ℃	130	Relative H	umidity:	55%	
Test Voltage:	AC 120V/60Hz	15	2.0	6	(dB)	
Terminal:	Line	J AMO				
Test Mode:	Normal Mode wi	th TX B Mod	d (TIVIT)		1	ABOVE
Remark:	Only worse case	e is reported		6.11	1123	
30 dBuV		^*_^^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	down Franch of the Mary of the	Protection of the second	AN A	P: — VG:
0.150	0.5	(MHz)	5			30.000
	Reading eq. Level	Correct Factor	Measure- ment	Limit	Over	
MI	req. Level Hz dBuV	Factor dB	ment dBu∨	Limit dBu∨	dB	Detector
1 0.20	eq. Level Hz dBuV 020 37.62	dB 10.02	ment dBuV 47.64	dBuV 63.52	dB -15.88	QP
1 0.20 2 * 0.20	eq. Level Hz dBuV 020 37.62 020 34.12	factor dB 10.02 10.02	ment dBuV 47.64 44.14	dBuV 63.52 53.52	dB -15.88 -9.38	QP AVG
1 0.20 2 * 0.20 3 0.26	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58	factor dB 10.02 10.02 10.02	ment dBuV 47.64 44.14 38.60	dBuV 63.52 53.52 61.24	dB -15.88 -9.38 -22.64	QP AVG QP
1 0.20 2 * 0.20	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58	Factor dB 10.02 10.02 10.02 10.02	ment dBuV 47.64 44.14	dBuV 63.52 53.52 61.24 51.24	dB -15.88 -9.38 -22.64 -17.17	QP AVG QP AVG
1 0.20 2 * 0.20 3 0.26	Hz dBuV 020 37.62 020 34.12 060 28.58 060 24.05	factor dB 10.02 10.02 10.02	ment dBuV 47.64 44.14 38.60	dBuV 63.52 53.52 61.24 51.24	dB -15.88 -9.38 -22.64	QP AVG QP
1 0.20 2 * 0.20 3 0.20 4 0.20	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58 060 24.05 060 23.72	Factor dB 10.02 10.02 10.02 10.02	ment dBuV 47.64 44.14 38.60 34.07	Limit dBuV 63.52 53.52 61.24 51.24 56.58	dB -15.88 -9.38 -22.64 -17.17	QP AVG QP AVG
1 0.20 2 * 0.20 3 0.20 4 0.20 5 0.40	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58 060 24.05 060 23.72 060 16.58	Factor dB 10.02 10.02 10.02 10.02 10.02	ment dBuV 47.64 44.14 38.60 34.07 33.74	Limit dBuV 63.52 53.52 61.24 51.24 56.58 46.58	dB -15.88 -9.38 -22.64 -17.17 -22.84	QP AVG QP AVG QP
1 0.20 2 * 0.20 3 0.20 4 0.20 5 0.40 6 0.40	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58 060 24.05 060 23.72 060 16.58 100 23.33	Factor dB 10.02 10.02 10.02 10.02 10.02 10.02	ment dBuV 47.64 44.14 38.60 34.07 33.74 26.60	Limit dBuV 63.52 53.52 61.24 51.24 56.58 46.58 56.00	dB -15.88 -9.38 -22.64 -17.17 -22.84 -19.98	QP AVG QP AVG QP AVG
1 0.20 2 * 0.20 3 0.26 4 0.26 5 0.46 6 0.46 7 1.41	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58 060 24.05 060 23.72 060 16.58 100 23.33	Factor dB 10.02 10.02 10.02 10.02 10.02 10.02 10.02 10.06	ment dBuV 47.64 44.14 38.60 34.07 33.74 26.60 33.39	Limit dBuV 63.52 53.52 61.24 51.24 56.58 46.58 56.00 46.00	dB -15.88 -9.38 -22.64 -17.17 -22.84 -19.98 -22.61	QP AVG QP AVG QP AVG QP
1 0.20 2 * 0.20 3 0.20 4 0.20 5 0.40 6 0.40 7 1.41 8 1.41	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58 060 24.05 060 23.72 060 16.58 100 23.33 100 15.83 780 20.93	Factor dB 10.02 10.02 10.02 10.02 10.02 10.02 10.06 10.06	ment dBuV 47.64 44.14 38.60 34.07 33.74 26.60 33.39 25.89	Limit dBuV 63.52 53.52 61.24 51.24 56.58 46.58 56.00 46.00	dB -15.88 -9.38 -22.64 -17.17 -22.84 -19.98 -22.61 -20.11	QP AVG QP AVG QP AVG QP AVG
1 0.20 2 * 0.20 3 0.26 4 0.26 5 0.46 6 0.46 7 1.41 8 1.41 9 2.87	eq. Level Hz dBuV 020 37.62 020 34.12 060 28.58 060 24.05 060 23.72 060 16.58 100 23.33 100 15.83 780 20.93 780 11.27	Factor dB 10.02 10.02 10.02 10.02 10.02 10.02 10.06 10.06 10.03	ment dBuV 47.64 44.14 38.60 34.07 33.74 26.60 33.39 25.89 30.96	Limit dBuV 63.52 53.52 61.24 51.24 56.58 46.58 56.00 46.00 46.00	dB -15.88 -9.38 -22.64 -17.17 -22.84 -19.98 -22.61 -20.11 -25.04	QP AVG QP AVG QP AVG QP AVG QP



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EUT:	Interactive Touch So	reen N	Model Name		H4 On	eScreen
Temperature:	25 °C		Relative Hur		55%	eodleen
Test Voltage:	AC 120V/60Hz		Neiative Hui	illuity.	33 70	
Terminal:	Neutral		-		111:00	
Test Mode:	Normal Mode with T	X B Mod	1			
Remark:	Only worse case is					1
80.0 dBuV	,			EMA		
30 dBuV	0.5	(MH2)	Myllida May Mylly Mylly of Myl		QF AV	
No. Mk. F	3	Correct Factor	Measure- ment	Limit	Over	
M	IHz dBuV	dB	dBuV	dBuV	dB	Detector
1 0.2	020 37.38	10.02	47.40	63.52	-16.12	QP
2 * 0.2	020 33.87	10.02	43.89	53.52	-9.63	AVG
3 0.2	700 28.25	10.02	38.27	61.12	-22.85	QP
4 0.2	700 24.02	10.02	34.04	51.12	-17.08	AVG
5 0.4	660 23.81 1	10.02	33.83	56.58	-22.75	QP
6 0.4	660 16.01	10.02	26.03	46.58	-20.55	AVG
7 1.3	420 23.50	10.06	33.56	56.00	-22.44	QP
8 1.3	420 12.20 1	10.06	22.26	46.00	-23.74	AVG
9 2.4	860 22.32	10.04	32.36	56.00	-23.64	QP
10 2.4	860 9.42	10.04	19.46	46.00	-26.54	AVG
		10.00	29.86	60.00	-30.14	QP
		10.00	26.88	50.00	-23.12	AVG
Emission Level	= Read Level+ Corre	ct Facto	or			



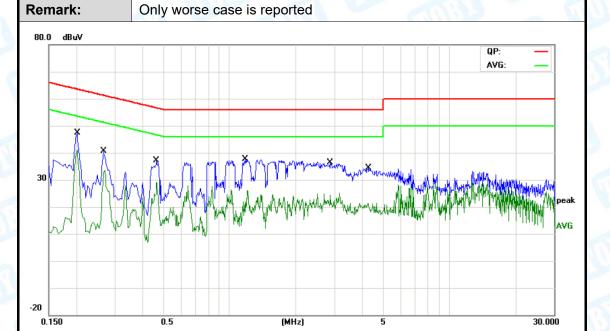
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EUT:	Interactive Touch Screen	Model Name :	H4 OneScreen
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz	al a	
Terminal:	Line	C C	
Test Mode:	Normal Mode with TX B Me	od	3 1111
Remark:	Only worse case is reporte	d	33 _ 6
30 ABuV -20 0.150	0.5 (MHz)	William X Marine de Marine	QP:
	Reading Correct req. Level Facto	r ment Limit	Over
	∕lHz dBuV dB	dBuV dBuV	dB Detector
	2020 35.34 10.02		
	2020 30.24 10.02		
	2660 28.10 10.02	38.12 61.24	
	2660 22.92 10.02		
5 0.8	3059 24.26 10.10	34.36 56.00	-21.64 QP
6 0.8	059 13.69 10.10	23.79 46.00	-22.21 AVG
7 1.0	0060 23.64 10.06	33.70 56.00	-22.30 QP
8 1.0	0060 13.97 10.06	24.03 46.00	-21.97 AVG
9 2.2	2740 21.39 10.05	31.44 56.00	-24.56 QP
10 2.2	2740 9.12 10.05	19.17 46.00	-26.83 AVG
11 3.1	380 21.93 10.02	31.95 56.00	-24.05 QP
12 3.1	380 10.84 10.02	20.86 46.00	-25.14 AVG
Emission Lovel	= Read Level+ Correct Fac	tor	



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EUT:	Interactive Touch Screen	Model Name :	H4 OneScreen
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	Normal Mode with TX B Mo	d	A VIII



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector
1	0.2020	35.47	10.02	45.49	63.52	-18.03	QP
2 *	0.2020	30.39	10.02	40.41	53.52	-13.11	AVG
3	0.2660	27.76	10.02	37.78	61.24	-23.46	QP
4	0.2660	22.78	10.02	32.80	51.24	-18.44	AVG
5	0.4660	24.54	10.02	34.56	56.58	-22.02	QP
6	0.4660	17.09	10.02	27.11	46.58	-19.47	AVG
7	1.1740	23.84	10.06	33.90	56.00	-22.10	QP
8	1.1740	9.27	10.06	19.33	46.00	-26.67	AVG
9	2.8820	22.82	10.03	32.85	56.00	-23.15	QP
10	2.8820	11.31	10.03	21.34	46.00	-24.66	AVG
11	4.2819	20.08	9.98	30.06	56.00	-25.94	QP
12	4.2819	10.86	9.98	20.84	46.00	-25.16	AVG



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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

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

Radiated Emission Limit (Above 1000MHz)

Frequency	Distance of 3m (dBuV/m)		
(MHz)	Peak	Average	
Above 1000	74	54	

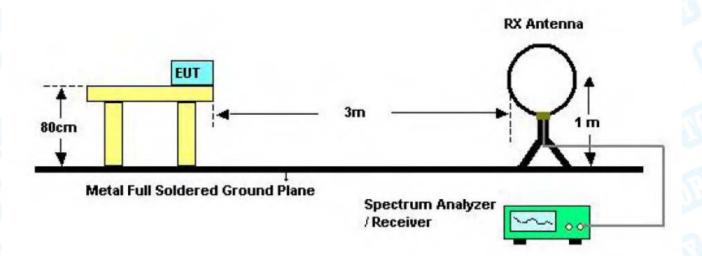
Note:

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

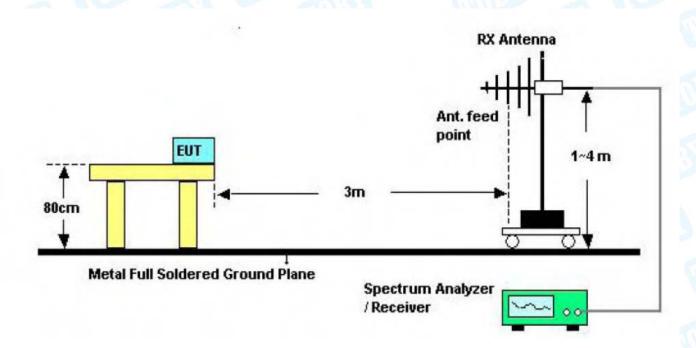


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5.2 Test Setup



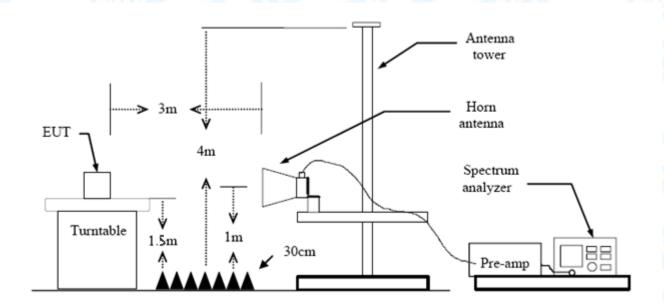
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.



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5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Emission Level= Read Level+ Correct Factor

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

below the permissible value has no need to be reported.

30MHz~1GHz

EU	Γ:	Intera	ctive Touch	Screen	Model:		H4 Ones	Screen
Ten	nperatur	e: 25 °C			Relative Hu	ımidity:	55%	
Tes	t Voltage	e: AC 12	20V/60HZ	CAND!		CHIE		
Ant	. Pol.	Horiz	ontal				(III)	
Tes	t Mode:	TX B	Mode 2412N	ЛHz	Mill Comment		N. Salar	
Rer	nark:	Only	worse case i	s reported		Aller		
80.0) dBuV/m							
30	Manharak Palagon per Sepanda		2	3 1	i I I I I I I I I I I I I I I I I I I I	(RF)FCC 15	GC 3M Radiation Margin -6	
30	0.000 40	50 60 70	0 80	(MHz)	300	400 50	0 600 700	1000.000
N	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1		60.0691	54.83	-24.60	30.23	40.00	-9.77	peal
2	1	101.6443	50.42	-21.84	28.58	43.50	-14.92	peal
3		145.3506	52.31	-21.38	30.93	43.50	-12.57	peak
4		167.8243	58.84	-20.78	38.06	43.50	-5.44	peal
5		199.9856	54.84	-19.99	34.85	43.50	-8.65	peak
			48.88	-5.14	43.74	46.00	-2.26	peal
6	* 5	357.0247	48 88					



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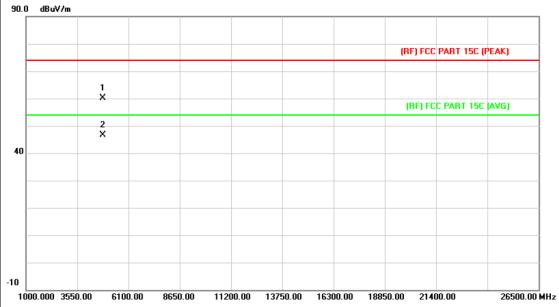
EUT:	Interactive Touch Screen	Model:		H4 OneScr	een
Temperature:	25 ℃	Relative Hu	ımidity:	55%	
Test Voltage:	AC 120V/60HZ	Millian			
Ant. Pol.	Vertical	mm -	1323	2 (1)	Mark
Test Mode:	TX B Mode 2412N	MHz		73	
Remark:	Only worse case i	is reported	A Alban		
80.0 dBuV/m					
20			(RF)FCC	15C 3M Radiation Margin -6	
30.000 40 50	60 70 80	(MHz) 3	00 400	500 600 700	1000.000
No. Mk.	Reading Freq. Level	Correct Measure Factor ment	e- Limit	Over	
	MHz dBuV	dB/m dBuV/m	dBuV/n	n dB	Detecto
1 60.	.0691 58.20	-24.60 33.60	40.00	-6.40	QP
2 97.	.7982 57.58	-22.04 35.54	43.50	-7.96	peak
3 * 144	.3348 61.30	-21.47 39.83	43.50	-3.67	peak
4 ! 202	2.8103 59.08	-19.87 39.21	43.50	-4.29	peak
5 440	0.1963 50.23	-12.16 38.07			peak
	0.3212 48.02	-8.74 39.28			peak
*:Maximum data	x:Over limit !:over margi	n	46.00	-0.72	pear



Page: 23 of 23

Above 1GHz

EUT:	Interactive Touch Screen	Model:	H4 OneScreen		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60HZ	131	THE STATE OF		
Ant. Pol.	Horizontal				
Test Mode:	TX B Mode 2412MHz				
Remark:	No report for the emission which more than 10 dB below the prescribed				
	limit.	22 - 13			

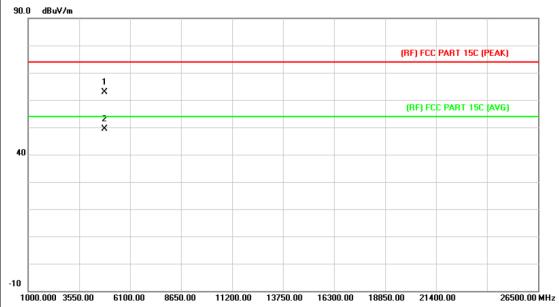


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.720	46.45	13.56	60.01	74.00	-13.99	peak
2	*	4826.360	33.16	13.57	46.73	54.00	-7.27	AVG



Page: 24 of 24

EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ	All Francisco	11329			
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX B Mode 2412MHz	TX B Mode 2412MHz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

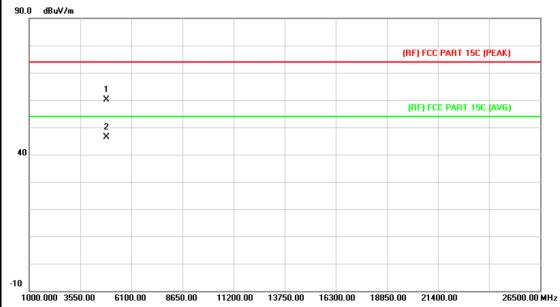


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.720	49.20	13.56	62.76	74.00	-11.24	peak
2	*	4826.500	35.83	13.57	49.40	54.00	-4.60	AVG



Page: 25 of 25

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60HZ	31	Till				
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2437MHz						
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

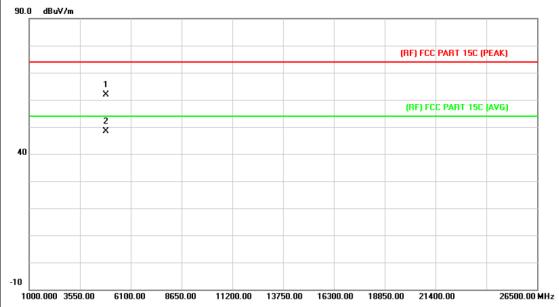


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.416	46.22	13.86	60.08	74.00	-13.92	peak
2	*	4874.439	32.41	13.86	46.27	54.00	-7.73	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ	31	The second			
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2437MHz	MILLER				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

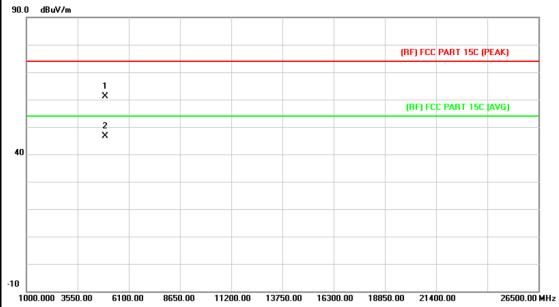


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.363	47.99	13.86	61.85	74.00	-12.15	peak
2	*	4874.398	34.53	13.86	48.39	54.00	-5.61	AVG



Page: 27 of 27

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	31 - 6					
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2462MHz		THE PARTY OF THE P				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						
00.0 dp.4//-							

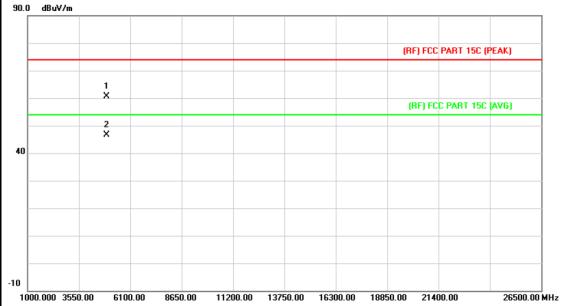


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.171	47.00	14.15	61.15	74.00	-12.85	peak
2	*	4924.439	32.38	14.15	46.53	54.00	-7.47	AVG



Page: 28 of 28

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2462MHz		THE PERSON NAMED IN				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
00.0 40.344							

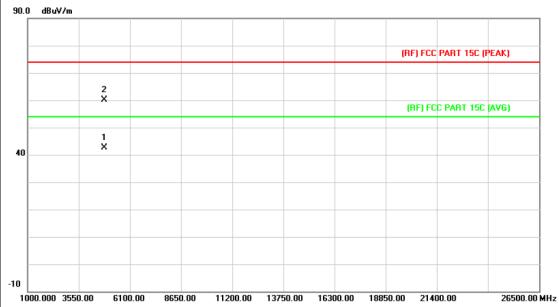


No.	Mk	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.964	46.51	14.15	60.66	74.00	-13.34	peak
2	*	4924.337	32.57	14.15	46.72	54.00	-7.28	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	25 ℃ Relative Humidity:					
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2412MHz		The same of the sa				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

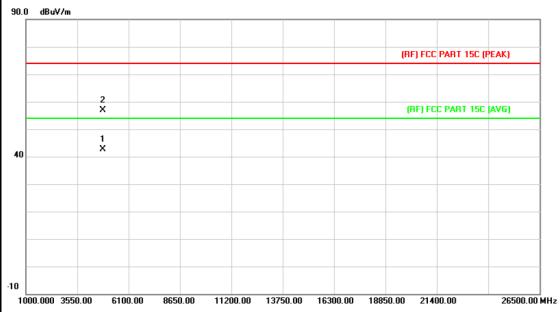


No.	Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.828	29.10	13.56	42.66	54.00	-11.34	AVG
2		4824.004	46.50	13.56	60.06	74.00	-13.94	peak



Page: 30 of 30

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	31	Tible				
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX G Mode 2412MHz	MIDS					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

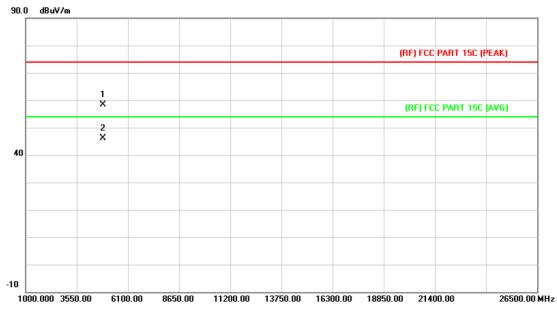


No.	. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.558	29.11	13.56	42.67	54.00	-11.33	AVG
2		4824.268	43.42	13.56	56.98	74.00	-17.02	peak



Page: 31 of 31

EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ	31	Tible			
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					
000 10 11						

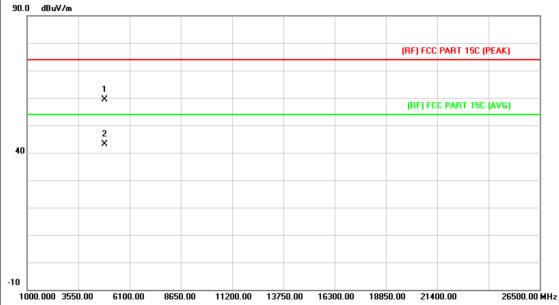


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.053	44.47	13.86	58.33	74.00	-15.67	peak
2	*	4874.447	32.24	13.86	46.10	54.00	-7.90	AVG



Page: 32 of 32

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2437MHz	MIDS					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						
00.0 10.41							

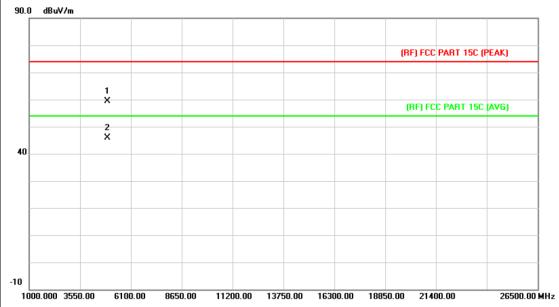


No	. Mk	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.863	45.57	13.86	59.43	74.00	-14.57	peak
2	*	4874.355	29.34	13.86	43.20	54.00	-10.80	AVG



Page: 33 of 33

EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2462MHz	MIDS				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

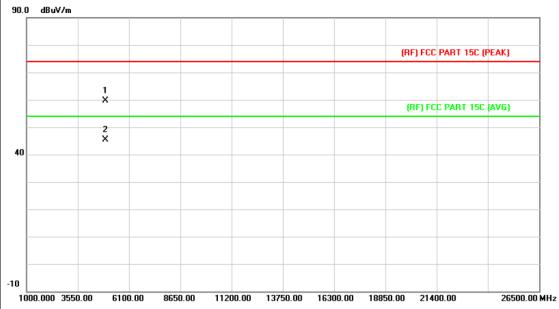


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.385	45.16	14.15	59.31	74.00	-14.69	peak
2	*	4924.500	31.64	14.15	45.79	54.00	-8.21	AVG



Page: 34 of 34

EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ	31	TUBE			
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2462MHz	MIDS				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					
000 ID W						

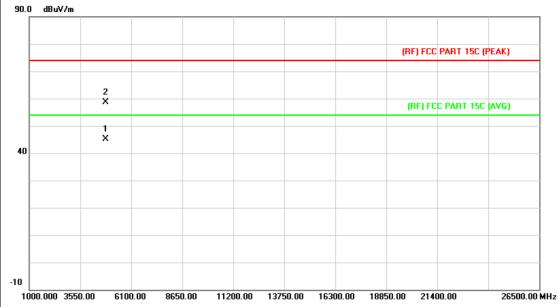


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.274	45.58	14.15	59.73	74.00	-14.27	peak
2	*	4924.480	31.14	14.15	45.29	54.00	-8.71	AVG



Page: 35 of 35

EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ		TI STATE OF THE ST					
Ant. Pol.	Horizontal							
Test Mode:	TX N(HT20) Mode 2412M	Hz						
Remark:	No report for the emission which more than 10 dB below the							
	prescribed limit.							

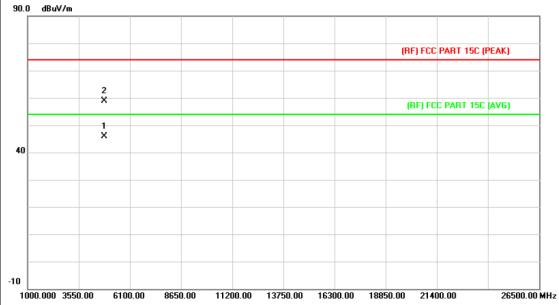


No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.605	31.60	13.56	45.16	54.00	-8.84	AVG
2		4824.298	45.18	13.56	58.74	74.00	-15.26	peak



Page: 36 of 36

EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ	31	Tible			
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2412M	Hz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

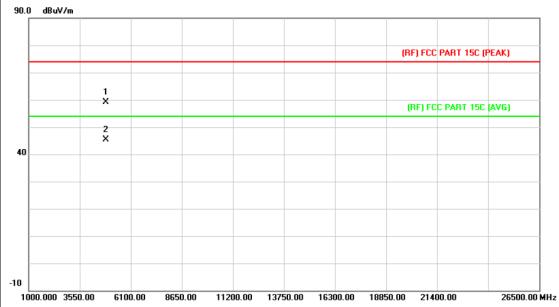


N	o. l	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	k	4823.776	32.23	13.56	45.79	54.00	-8.21	AVG
2			4824.035	45.27	13.56	58.83	74.00	-15.17	peak



Page: 37 of 37

EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT20) Mode 2437M	Hz						
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							

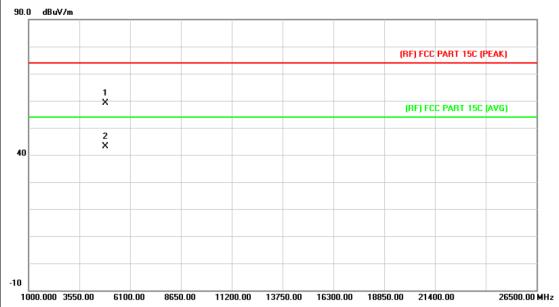


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.560	45.27	13.86	59.13	74.00	-14.87	peak
2	*	4874.395	31.53	13.86	45.39	54.00	-8.61	AVG



Page: 38 of 38

EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX N(HT20) Mode 2437M	Hz						
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							

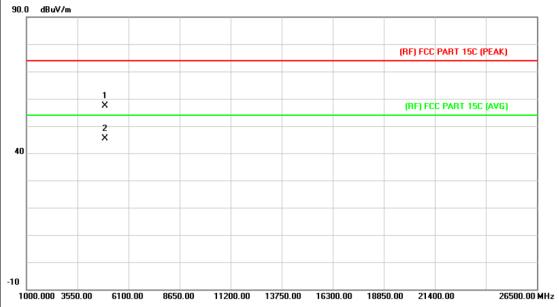


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.104	45.38	13.86	59.24	74.00	-14.76	peak
2	*	4874.500	29.29	13.86	43.15	54.00	-10.85	AVG



Page: 39 of 39

EUT:	Interactive Touch Screen	Interactive Touch Screen Model: H4						
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT20) Mode 2462MF	łz	a Villa					
Remark:	No report for the emission	which more than 10 dB	below the					
prescribed limit.								
Í								

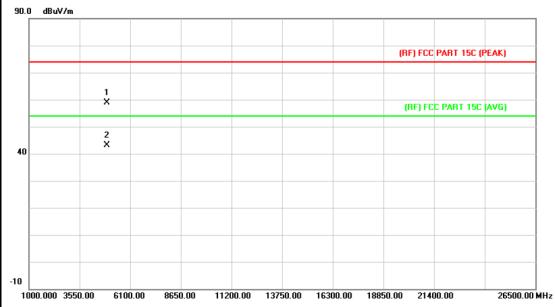


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.902	43.22	14.15	57.37	74.00	-16.63	peak
2	*	4924.394	31.23	14.15	45.38	54.00	-8.62	AVG



Page: 40 of 40

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX N(HT20) Mode 2462MH	z	a live				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

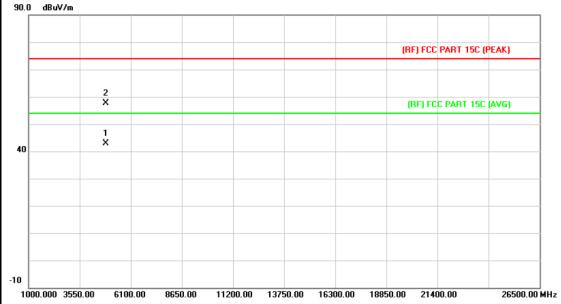


No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.624	44.63	14.15	58.78	74.00	-15.22	peak
2	*	4924.448	29.02	14.15	43.17	54.00	-10.83	AVG



Page: 41 of 41

EUT:	Interactive Touch Screen	Interactive Touch Screen Model: H4 OneS						
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT40) Mode 2422M	Hz	a library					
Remark:	No report for the emission	which more than 10 dB	below the					
	prescribed limit.							
00.0								

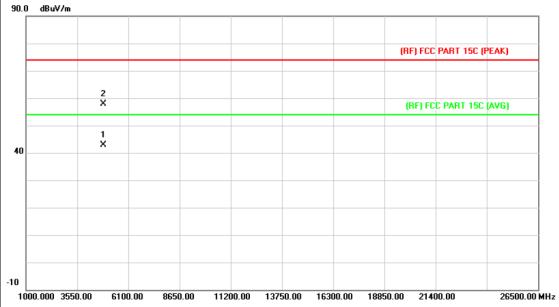


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.552	29.25	13.68	42.93	54.00	-11.07	AVG
2		4844.373	43.90	13.68	57.58	74.00	-16.42	peak



Page: 42 of 42

EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX N(HT40) Mode 2422MH	lz (V)	2					
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the						
	prescribed limit.							
90.0 JB.V.L								

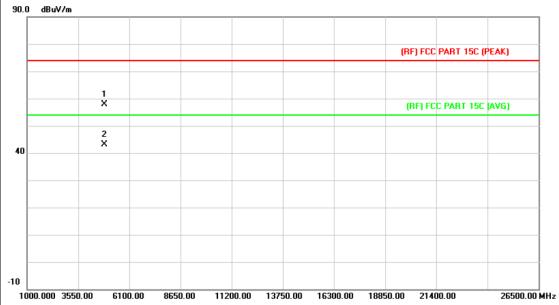


No.	Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.500	29.28	13.68	42.96	54.00	-11.04	AVG
2		4843.621	44.12	13.68	57.80	74.00	-16.20	peak



Page: 43 of 43

EUT:	Interactive Touch Screen Model:		H4 OneScreen				
Temperature:	25 ℃	25 °C Relative Humidity:					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT40) Mode 2437M	Hz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

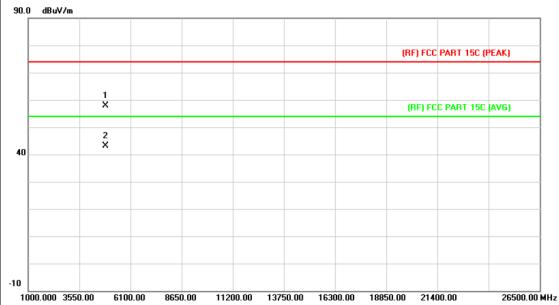


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.563	43.94	13.86	57.80	74.00	-16.20	peak
2	*	4874.343	29.30	13.86	43.16	54.00	-10.84	AVG



Page: 44 of 44

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2437M	Hz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

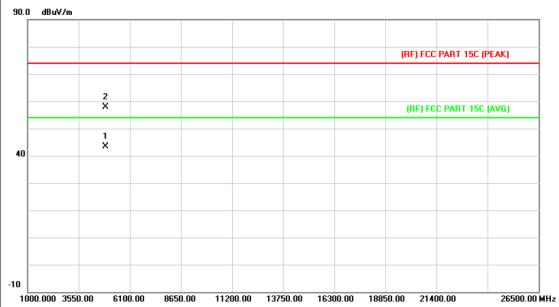


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.951	44.08	13.86	57.94	74.00	-16.06	peak
2	*	4874.395	29.32	13.86	43.18	54.00	-10.82	AVG



Page: 45 of 45

EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	25 ℃ Relative Humidity:						
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT40) Mode 2452M	Hz						
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							

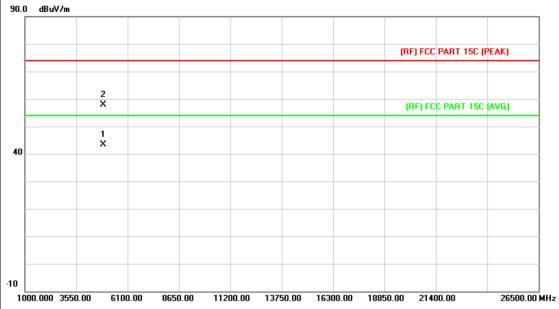


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.710	29.27	14.03	43.30	54.00	-10.70	AVG
2		4904.413	43.89	14.03	57.92	74.00	-16.08	peak



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX N(HT40) Mode 2452M	Hz	THE PARTY OF THE P					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							
90.0 dBuV/m								



No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.657	29.25	14.03	43.28	54.00	-10.72	AVG
2		4904.341	43.91	14.03	57.94	74.00	-16.06	peak



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6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

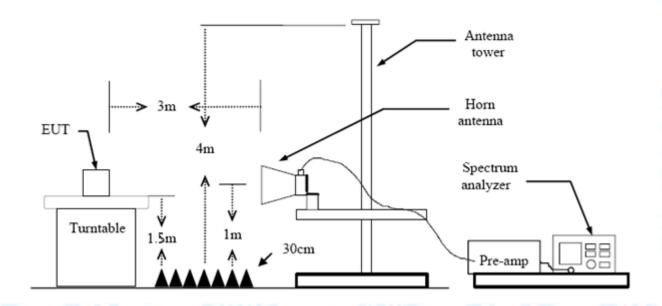
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

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

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.



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(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

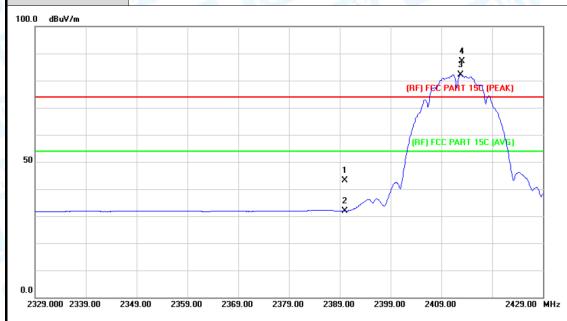
Please see the next page.



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(1) Radiation Test

EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	25 ℃ Relative Humidity: 55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal	WILL DE	HILL				
Test Mode:	TX B Mode 2412MHz						
Remark:	N/A						

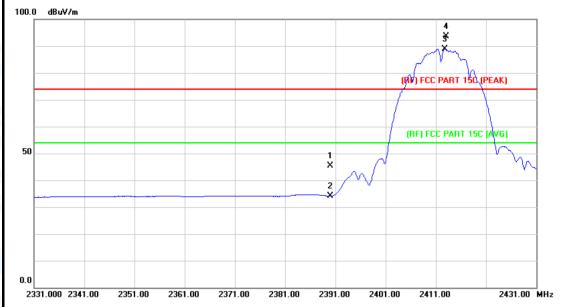


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.33	0.77	43.10	74.00	-30.90	peak
2		2390.000	31.14	0.77	31.91	54.00	-22.09	AVG
3	*	2412.800	81.37	0.86	82.23	Fundamenta	I Frequency	AVG
4	X	2413.000	86.23	0.86	87.09	Fundamenta	l Frequency	peak



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2412MHz					
Remark:	N/A					

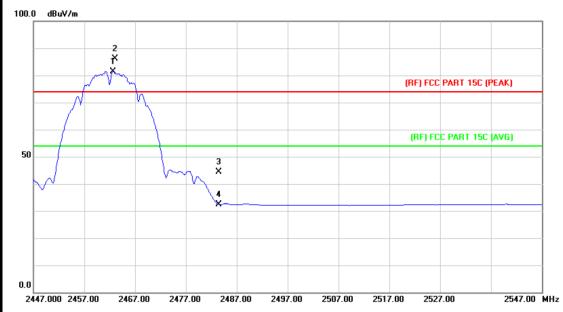


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.57	0.77	45.34	74.00	-28.66	peak
2		2390.000	33.41	0.77	34.18	54.00	-19.82	AVG
3	*	2412.800	88.09	0.86	88.95	Fundament	al Frequenc	y AVG
4	X	2413.100	92.77	0.86	93.63	Fundament	tal Frequenc	y peak



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen			
Temperature:	25 ℃	55%				
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2462MHz					
Remark:	N/A		133			

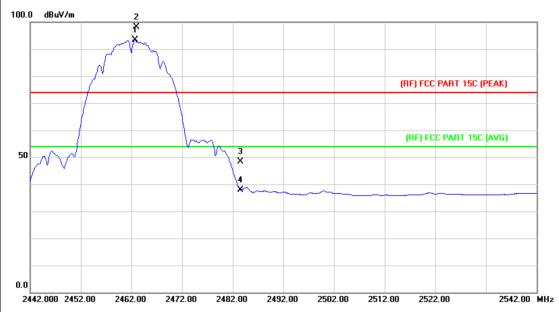


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	80.35	1.08	81.43	Fundament	al Frequency	AVG
2	Χ	2463.000	85.12	1.08	86.20	Fundament	al Frequency	peak
3		2483.500	43.20	1.17	44.37	74.00	-29.63	peak
4		2483.500	31.21	1.17	32.38	54.00	-21.62	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX B Mode 2462MHz	WIID S	A VIII					
Remark:	N/A		133					
100.0 dBuV/m	2							

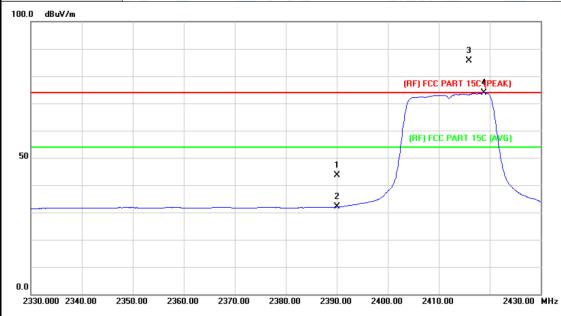


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	92.28	1.08	93.36	Fundamenta	l Frequency	AVG
2	X	2463.000	96.97	1.08	98.05	Fundamenta	I Frequency	peak
3		2483.500	47.25	1.17	48.42	74.00	-25.58	peak
4		2483.500	36.67	1.17	37.84	54.00	-16.16	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal							
Test Mode:	TX G Mode 2412MHz							
Remark:	N/A		339					

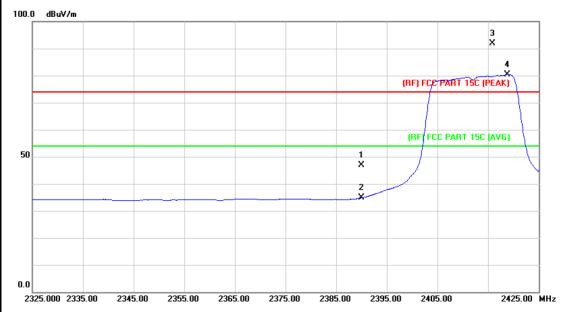


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.86	0.77	43.63	74.00	-30.37	peak
2		2390.000	31.24	0.77	32.01	54.00	-21.99	AVG
3	X	2415.900	84.63	0.88	85.51	Fundament	al Frequency	, peak
4	*	2418.800	73.09	0.89	73.98	Fundament	tal Frequency	, AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical	U	
Test Mode:	TX G Mode 2412MHz		2
Remark:	N/A		

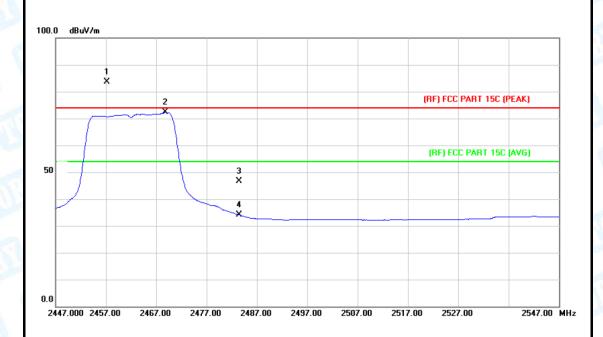


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.03	0.77	46.80	74.00	-27.20	peak
2		2390.000	34.04	0.77	34.81	54.00	-19.19	AVG
3	X	2415.900	91.00	0.88	91.88	Fundamenta	al Frequency	peak
4	*	2418.800	79.61	0.89	80.50	Fundamenta	al Frequency	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2462MHz						
Remark:	N/A		133				

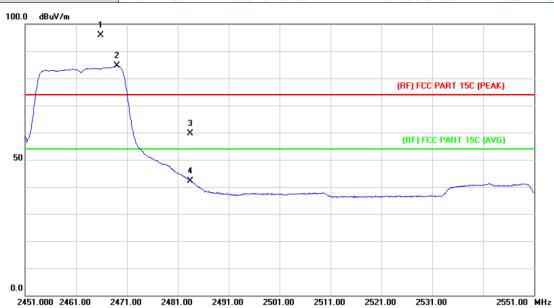


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2457.200	82.60	1.05	83.65	Fundamental	Frequency	peak
2	*	2468.800	71.16	1.11	72.27	Fundamental	Frequency	AVG
3		2483.500	45.57	1.17	46.74	74.00	-27.26	peak
4		2483.500	32.87	1.17	34.04	54.00	-19.96	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical	O	
Test Mode:	TX G Mode 2462MHz	WIII DE	2 1111
Remark:	N/A		73 _ [1]

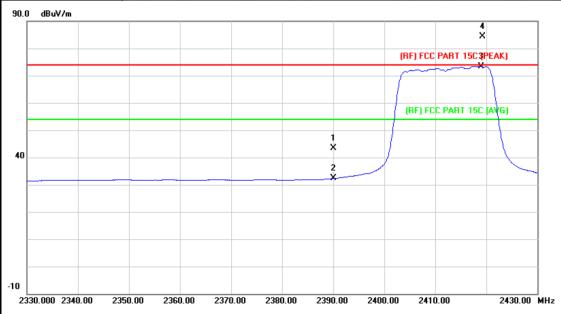


N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2465.900	94.69	1.09	95.78	Fundamenta	al Frequency	peak
2	*	2469.100	83.47	1.11	84.58	Fundamenta	I Frequency	AVG
3		2483.500	58.35	1.17	59.52	74.00	-14.48	peak
4		2483.500	40.88	1.17	42.05	54.00	-11.95	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen							
Temperature:	25 ℃	Relative Humidity:	55%							
Test Voltage:	AC 120V/60HZ									
Ant. Pol.	Horizontal	Horizontal								
Test Mode:	TX N(HT20) Mode 2412MH	lz	a William							
Remark:	N/A		73							
	'									



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.53	0.77	43.30	74.00	-30.70	peak
2		2390.000	31.55	0.77	32.32	54.00	-21.68	AVG
3	*	2419.000	72.58	0.89	73.47	Fundamenta	l Frequency	AVG
4	X	2419.300	83.58	0.89	84.47	Fundamenta	Frequency	peak



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EUI	Γ:		Interactive Touch Screen				Mode	l:		H4 OneScreen			
Ten	perature	:	25 °C		M	30	Relati	ve Hun	nidity:	55%	A British		
Tes	t Voltage:		AC 1	20V/60	HZ	-	1180		GU	1133			
Ant	. Pol.		Verti	cal		P. W.			6		THE STATE OF THE S		
Tes	t Mode:		TX N	(HT20) Mod	le 2412M	Hz	All DE		3 H			
Ren	nark:		N/A	RR			1 4		CITI I	33			
100.0	O dBuV/m												
										4 X			
										3			
									(RF)-FCC	PART 15C (PI	AK)		
									\Box				
									mex.co	D D1DT 450			
50							1		(HF) FU	C PART 15C (/	(VG)		
							X	,	/				
							2 X						
0.0													
23	331.000 2341.0	00 23	351.00	2361.00	237	1.00 2381.	00 2391	1.00 240	1.00 241	1.00	2431.00 MHz		
				Read	ling	Correc	· Mea	sure-					
N	lo. Mk.	Fre	q.	Lev		Factor		ent	Limit	Over			
		MH	Z	dBu	V	dB/m	dBı	uV/m	dBuV/m	dB	Detector		
1	2	390.0	000	46.9	94	0.77	47	7.71	74.00	-26.29	9 peak		

Emission Level= Read Level+ Correct Factor

34.42

78.40

89.29

0.77

0.89

0.89

35.19

79.29

90.18

54.00

Fundamental Frequency

Fundamental Frequency

2390.000

2419.100

2419.200

3

4

Χ

AVG

AVG

peak

-18.81



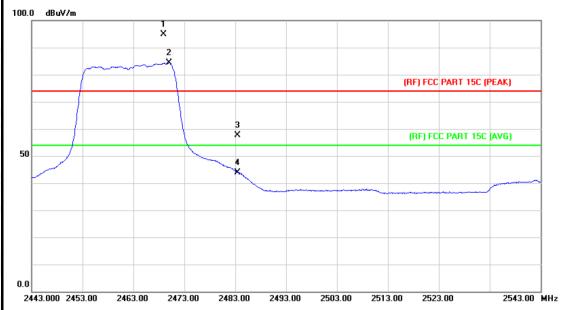
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EUT:	UT: Interactive Touch					h Scree	n	Mod	lel:			H4 OneScreen			
Temp	eratu	re:	25 °	C		CE		Rela	tive	Humid	ity:	55%			
Test V	/oltag	ge:	AC 1	120V/6	30HZ		40				(III)	1:32			
Ant. F	ol.		Hori	zontal		1 11									
Test N	/lode	:	1XT	N(HT2	0) Mc	de 2462	2MHz	2	111	11		2 1	ساليا		
Rema	rk:		N/A	Mil			51	1				13		1	
90.0 d	BuV/m														
				1 X										7	
				2						(R	F) FCC P	ART 15C (PEA	K)		
				~~										-	
				$-\downarrow$							DE) ECC	PART 15C (AV	C)	-	
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40						4 ×									
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10															
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				Rea	ding	Corre	ect	Mea	sure						
No.	Mk.	Fre	q.	Le	/el	Fac	tor	me	ent	Lin	nit	Over			
		MH	Z	dB	uV	dB/n	n	dBı	uV/m	dB	uV/m	dB	Dete	ecto	
1	Χ	2469.	100	81.	91	1.1	1	83	3.02	Funda	mental	Frequency	pe	ak	
2	*	2469.	900	70.	74	1.1	1	71	.85			Frequency	A\	/G	
3		2483.		48.		1.1			0.21		.00	-24.79		ak	
4		2483.			76	1.1			.93		.00	-19.07		/G	
		00.		50.	. •	1.11	1	07	.00	0	.00	.0.07	/ (1		



Page: 60 of 60

EUT:	Interactive Touch Screen	Model:	H4 OneScreen
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ	30 6	Will a
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462M	Hz	THE PARTY OF THE P
Remark:	N/A		133
100.0 dBuV/m			
	X		
	2		



No.	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2468.900	93.68	1.11	94.79	Fundamental	Frequency	peak
2	*	2470.000	83.18	1.11	84.29	Fundamental	Frequency	AVG
3		2483.500	56.54	1.17	57.71	74.00	-16.29	peak
4		2483.500	42.64	1.17	43.81	54.00	-10.19	AVG



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EUT:			Inter	active -	Touch	Screen	Mode	el:		H4 OneScreen		
Temp	peratu	re:	25 °	С	M	30	Relat	ive Hu	umidity:	55%	A STATE	
Test	Voltaç	je:	AC 1	120V/60	HZ				671	1133		
Ant.	Pol.		Horiz	zontal		OM			10		M	
Test	Mode		TXN	N(HT40) Mod	e 2422M	Hz	Mo			1 Land	
Rema	ark:		N/A	RR	a land		1 6			13		
90.0	dBuV/m											
									3 X (RF) FCC F	PART 15C (PEAK)	
									·			
									(RF) FCC	PART 15C (AV)	
40						1 X						
						2 X	<u> </u>					
10												
2348.	000 2358	1.00 231	68.00	2378.00	2388.	00 2398.0	0 2408.0	0 241	8.00 2428.	00 2	448.00 MF	
No	. Mk.	Fre	eq.	Read Lev		Correct Factor			Limit	Over		
		MH	Z	dBu	V	dB/m	dBu\	V/m	dBuV/m	dB	Detecto	
1		2390.	000	45.1	12	0.77	45.	89	74.00	-28.11	peak	
1		2390.0	000	31.9	99	0.77	32.	76	54.00	-21.24	AVG	
2		2000.					00	73	Fundament		peak	
	X	2418.0		79.8	34	0.89	80.	13	rundament	al Frequency	pear	



Page: 62 of 62

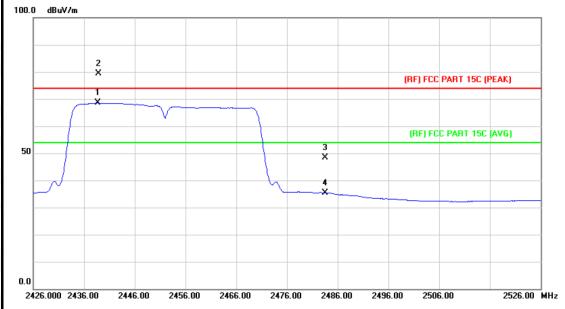
EUT:			Interactive Touch Screen						Mod	lel:				H4 OneScreen				n		
Temp	perature	:	25 °	C	CTI.	M	13			Rela	ative	Hu	mid	ity:	5	55%	N			
Test	Voltage:		AC 1	20V	/60H	Z		A						6		ور			h.	
۱nt.	Pol.		Verti	cal			1		الخرار					6			A			
Test	Mode:		TXN	I(HT	40) N	/lod	e 24	22M	Hz	5	111				- HILL					
Rem	ark:		N/A	M				5		1			6	\overline{M}	N	3			N	
100.0	dBuV/m																		_	
															3 X					
													(I	RF) FC	CPAF	1 15C	(PEAK)		
														v			'			
										\vdash				(RF) F	CC PA	RT 150	: (AVG))(-	
50							1 X 2 X		لر									h		
0.0																				
2347	7.000 2357.0	0 23	67.00	2377	'.00	2387	7.00	2397.	.00	2407	7.00	241	7.00	242	27.00		2	447.00	МН	
No	. Mk.	Free	q.		adino evel	g		rrect			sure ent	e-	Lir	nit		Ove	er			
		MHz	<u>'</u>	dl	BuV		dB	3/m		dBı	uV/m	1	dB	uV/n	1	dB		Dete	cto	

No.	Mk	. Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.99	0.77	47.76	74.00	-26.24	peak
2		2390.000	35.27	0.77	36.04	54.00	-17.96	AVG
3	Χ	2428.900	86.17	0.94	87.11	Fundamenta	I Frequency	peak
4	*	2431.300	75.26	0.95	76.21	Fundamenta	I Frequency	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen							
Temperature:	25 ℃	Relative Humidity:	55%							
Test Voltage:	AC 120V/60HZ	31 - 6	TUE							
Ant. Pol.	Horizontal									
Test Mode:	TX N(HT40) Mode 2452M	Hz	The same of the sa							
Remark:	N/A		:35							
100.0 dBuV/m										

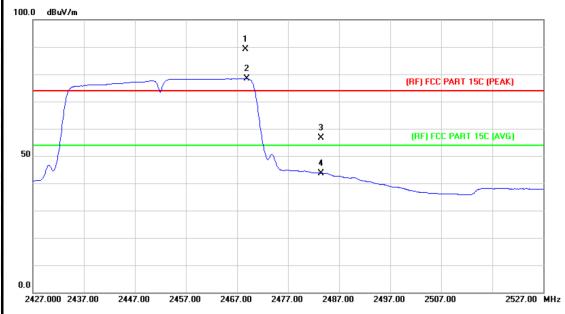


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2438.700	67.54	0.98	68.52	Fundamenta	l Frequency	AVG
2	X	2438.900	78.32	0.98	79.30	Fundamenta	Frequency	peak
3		2483.500	47.30	1.17	48.47	74.00	-25.53	peak
4		2483.500	34.24	1.17	35.41	54.00	-18.59	AVG



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EUT:	Interactive Touch Screen	Model:	H4 OneScreen	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60HZ			
Ant. Pol.	Vertical			
Test Mode:	TX N(HT40) Mode 2452MHz			
Remark:	N/A		133	

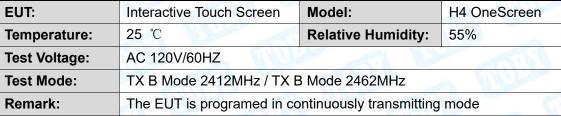


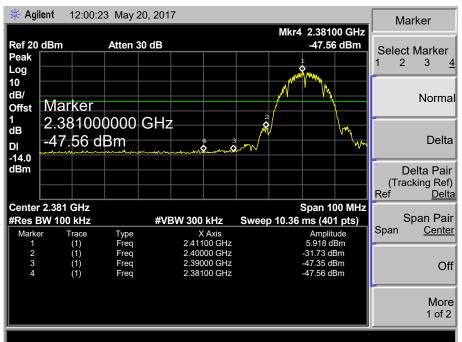
No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2468.700	88.09	1.11	89.20	Fundamental	Frequency	peak
2	*	2468.900	77.30	1.11	78.41	Fundamental	Frequency	AVG
3		2483.500	55.50	1.17	56.67	74.00	-17.33	peak
4		2483.500	42.56	1.17	43.73	54.00	-10.27	AVG

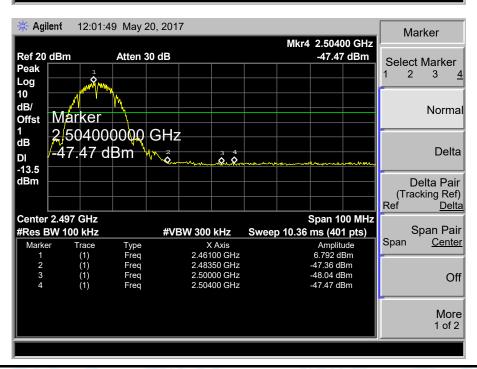


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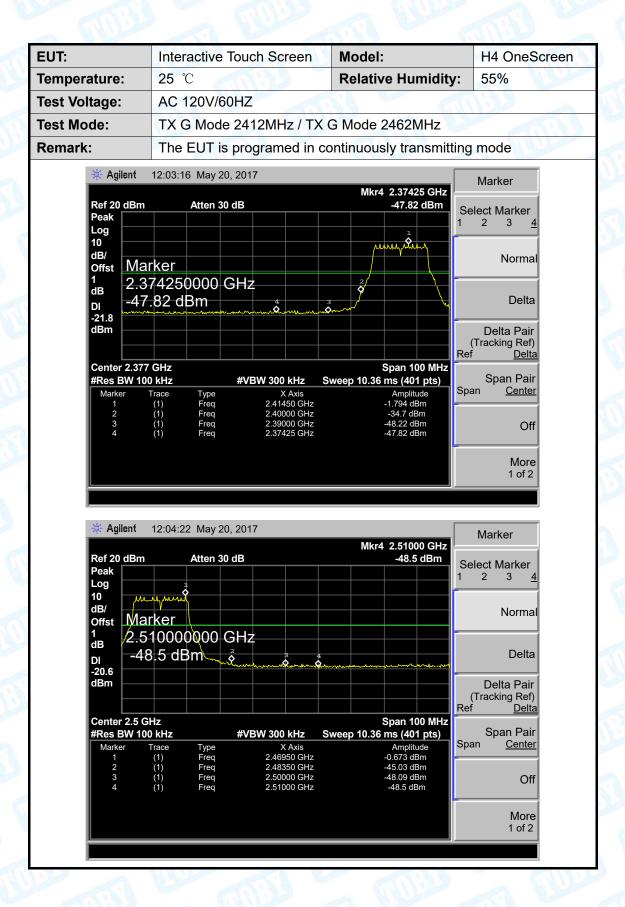








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Center 2.494 GHz #Res BW 100 kHz Page: 67 of 67

EUT:	Interactive Touch Screen	Model:	H4 OneScreen		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage: AC 120V/60HZ			133		
TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz					
Remark: The EUT is programed in continuously transmitting			node		
* Agilent 13:43:27 May 20, 2017 Marker					
Ref 20 dBi Peak Log	m Atten 30 dB	1	lect Marker 2 3 <u>4</u>		
	arker 374000000 GHz	mymm	Normal		
	7.01 dBm		Delta		
dBm		Ref	Delta Pair Tracking Ref) <u>Delta</u>		
Center 2.3 #Res BW 1	100 kHz #VBW 300 kHz \$ Trace Type X Axis	Span 100 MHz Sweep 10.36 ms (401 pts) Amplitude -1.701 dBm	Span Pair n <u>Center</u>		
2 3 4	(1) Freq 2.41950 GHz (1) Freq 2.40000 GHz (1) Freq 2.39000 GHz (1) Freq 2.37400 GHz	-35.9 dBm -47.03 dBm -47.01 dBm	Off		
			More 1 of 2		
# Agilent 13:44:38 May 20, 2017 Marker					
Ref 20 dBr Peak Log	1	Mkr4 2.50925 GHz -46.35 dBm	lect Marker 2 3 <u>4</u>		
dB/ Offst M	arker arker		Normal		
	509250000 GHz 6.35 dBm	4	Delta		
dBm			Delta Pair		

#VBW 300 kHz

X Axis 2.46950 GHz 2.48350 GHz 2.50000 GHz 2.50925 GHz Delta Pair (Tracking Ref) Ref <u>Delta</u>

> Span Pair <u>Center</u>

> > Off

More 1 of 2

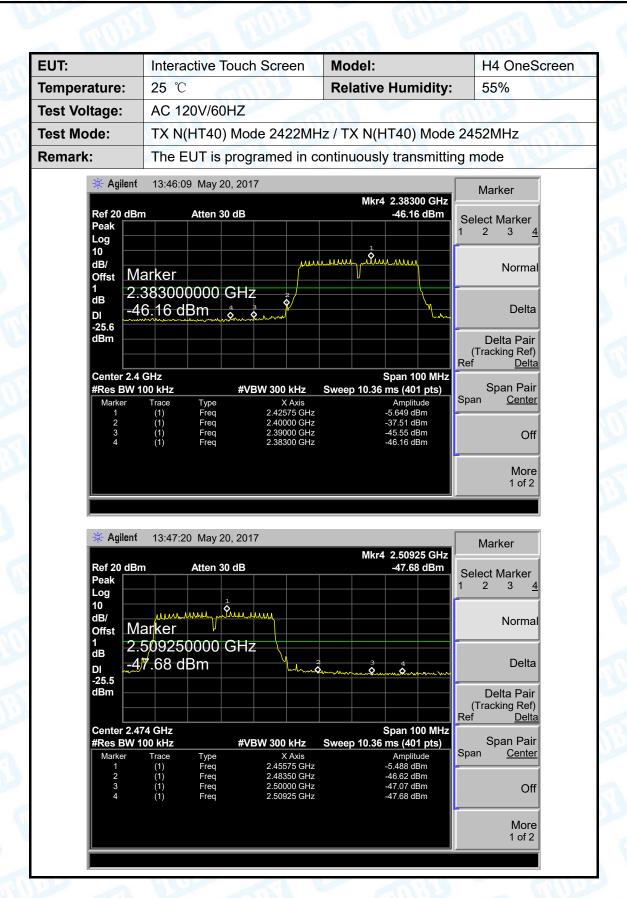
Span 100 MHz Sweep 10.36 ms (401 pts)

Amplitude -1.117 dBm -45.19 dBm -46.95 dBm -46.35 dBm





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7. Bandwidth Test

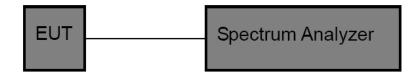
7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210				
Test Item	Limit	Frequency Range(MHz)		
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5		

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.



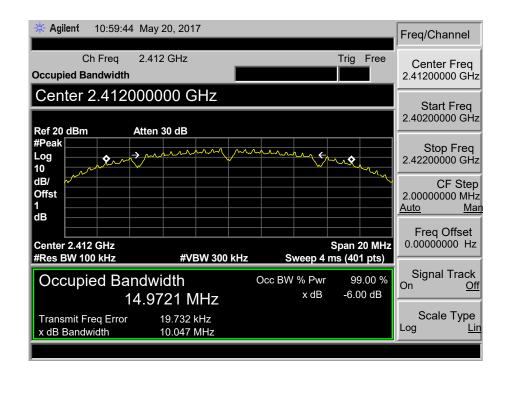
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7.5 Test Data

Interactive Touch Screen Model:		H4 OneScreen	
25 ℃	Relative Humidity:	55%	
AC 120V/60HZ			
TX 802.11B Mode			
cy 6dB Bandwidth	99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	
10.047	14.9721		
10.082	14.9646	>=0.5	
10.045	14.9807		
	25 °C AC 120V/60HZ TX 802.11B Mode cy 6dB Bandwidth (MHz) 10.047 10.082	25 ℃ Relative Humidity: AC 120V/60HZ TX 802.11B Mode cy 6dB Bandwidth (MHz) (MHz) 10.047 14.9721 10.082 14.9646	

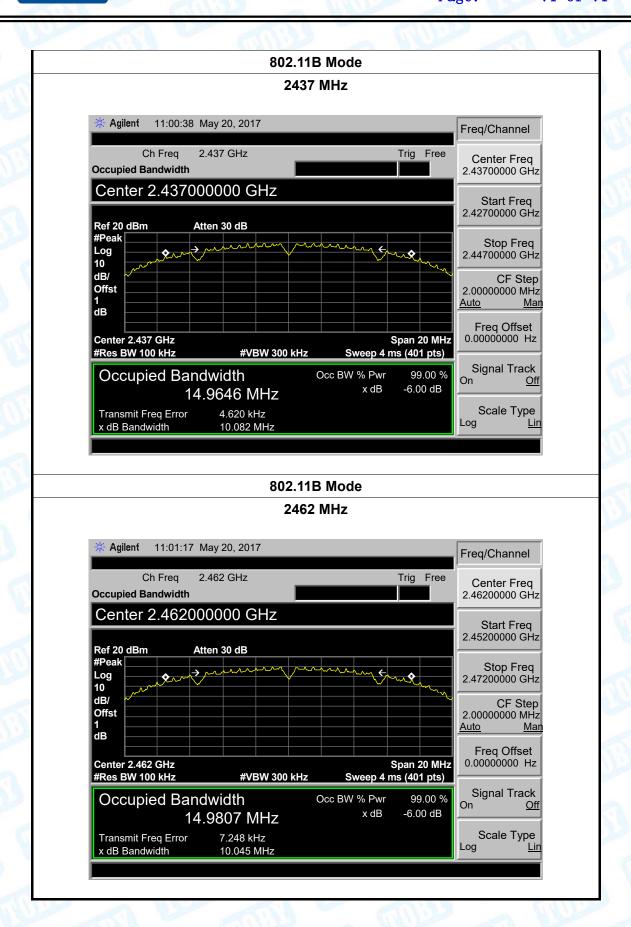
802.11B Mode

2412 MHz





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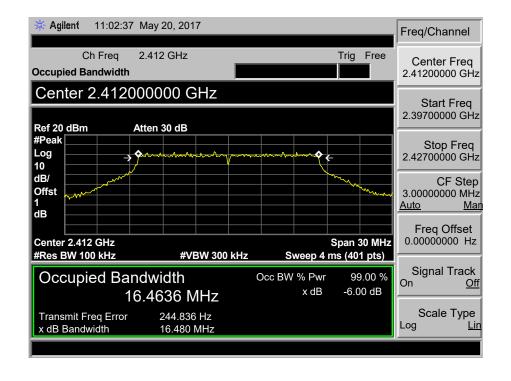




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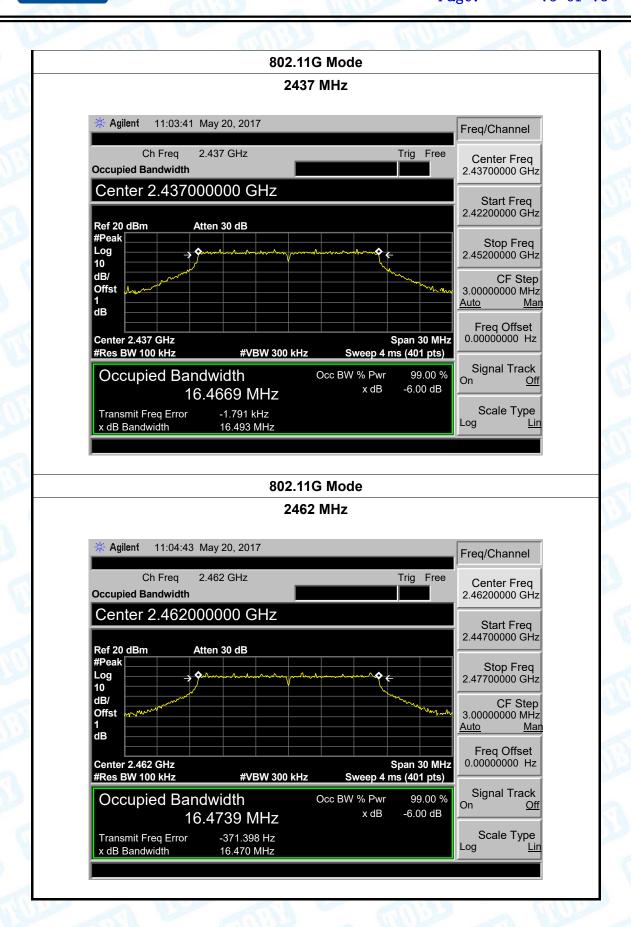
EUT:	Interactive Touch Screen	Model:	H4 OneScreen	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60HZ		133	
Test Mode:	TX 802.11G Mode			
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2412	16.480	16.4636		
2437	16.493	16.4669	>=0.5	
2462	16.470	16.4739		
802.11G Mode				

2412 MHz





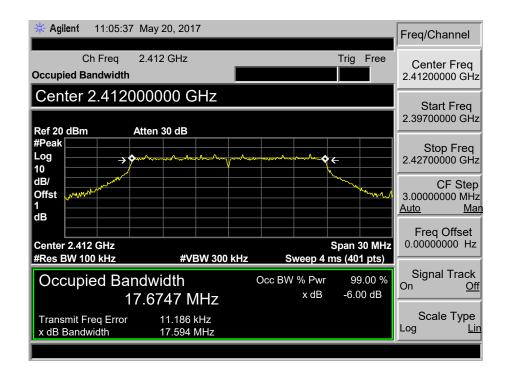
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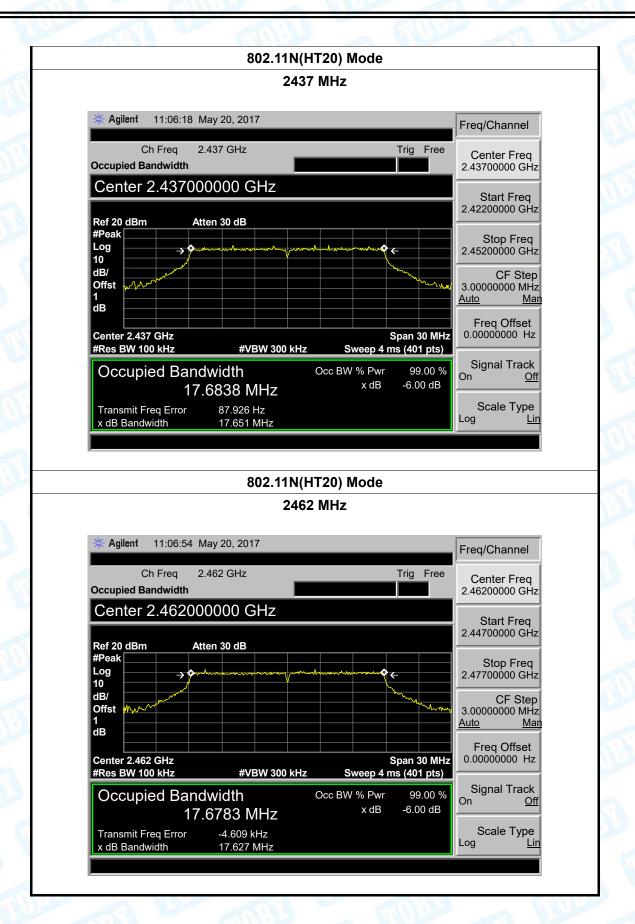
EUT:	Interactive Touch Screen	Model:	H4 OneScreen		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60HZ	31 - 61	1339		
Test Mode:	TX 802.11N(HT20) Mode				
Channel frequence	nnel frequency 6dB Bandwidth 99% Bandwidth Limi				
(MHz)	(MHz)	(MHz)	(MHz)		
2412	17.594	17.6747			
2437	17.651	17.6838	>=0.5		
2462 17.627		17.6783			
	802.11N(HT2	(0) Mode			
	0440 14				





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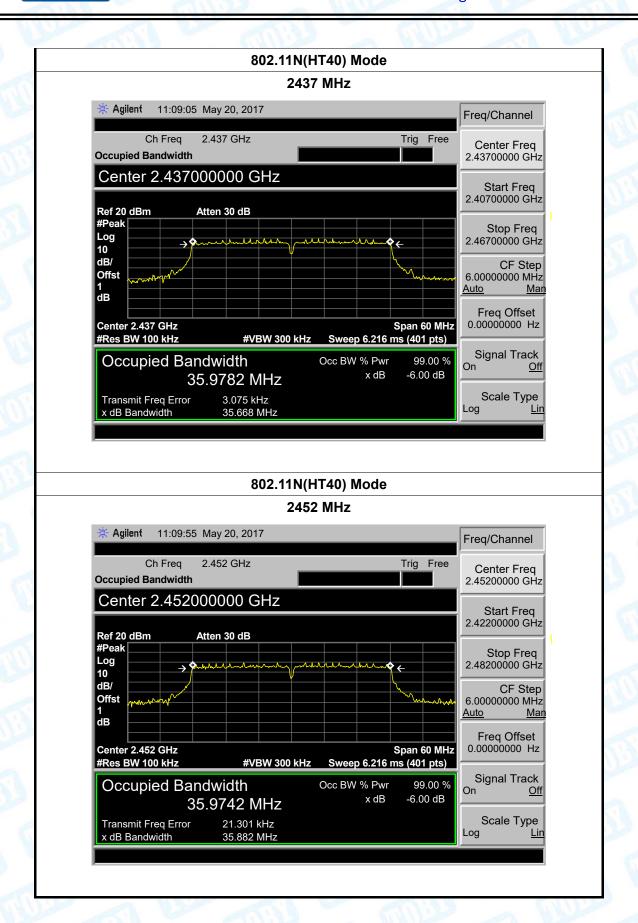
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	Interactive Touch Screen	Model:	H4 OneScreer
emperature:	25 ℃	Relative Humidity:	55%
est Voltage:	AC 120V/60HZ	The state of the s	7
est Mode:	TX 802.11N(HT40) Mode		Till I
Channel frequenc (MHz)	cy 6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	35.800	35.9768	
2437	35.668	35.9782	>=0.5
2452	35.882	35.9742	
	802.11N(H	Г40) Mode	
	2422	MHz	
* Agilent	11:08:05 May 20, 2017	F	req/Channel
Occupied Bar	2.422 GHz adwidth 2.422000000 GHz		Center Freq .42200000 GHz Start Freq .39200000 GHz
Ref 20 dBm #Peak Log 10 dB/ Offst 1 dB Center 2.422 #Res BW 100	GHz	2 4 6 A	Stop Freq .45200000 GHz CF Step .00000000 MHz uto Man Freq Offset .000000000 Hz
Occupie	ed Bandwidth 35.9768 MHz	Occ BW % Pwr 99.00 % x dB -6.00 dB	Signal Track n <u>Off</u>
	eq Error 18.046 kHz idth 35.800 MHz	Lo	Scale Type



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8. Peak Output Power Test

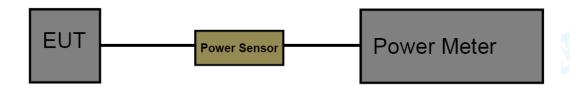
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210					
Test Item	Limit	Frequency Range(MHz)			
Peak Output Power	1 Watt or 30 dBm	2400~2483.5			

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.



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8.5 Test Data

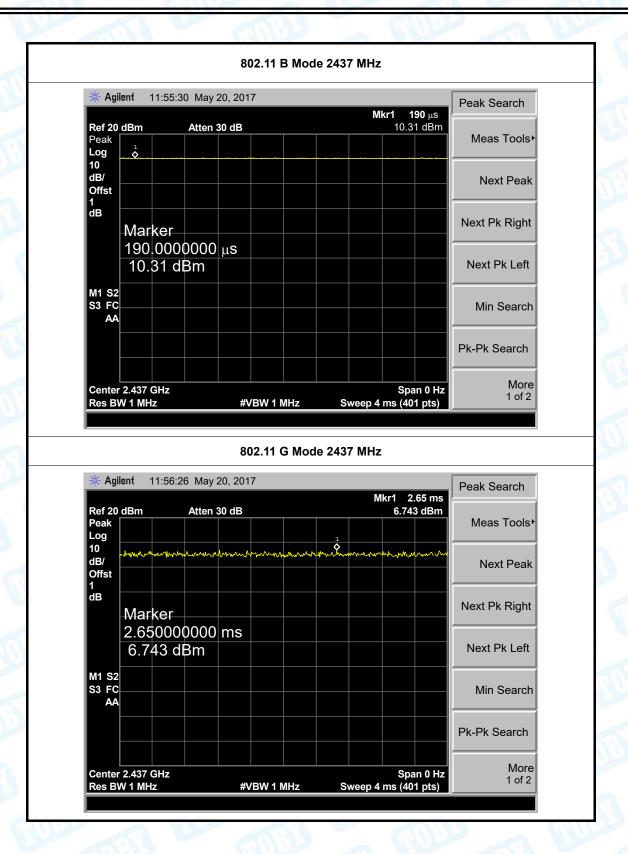
EUT:	Interactive Touch Scre	een	Model:	H4 OneScreen	
Temperature:	25 ℃	25 ℃		55%	
Test Voltage:	AC 120V/60HZ	120			
Mode	Channel frequency (MHz)	Te	st Result (dBm)	Limit (dBm)	
	2412		18.88		
802.11b	2437		18.80		
	2462		19.16		
	2412	14.52			
802.11g	2437	15.80			
	2462	15.78		30	
802.11n	2412		13.58	30	
(HT20)	2437		14.46		
(11120)	2462		14.90		
902 11n	2422	12.64			
802.11n (HT40)	2437	12.72			
(11140)	2452		13.37		
	Resi	ult:	PASS		

Duty Cycle					
Mode	Channel frequency (MHz)	Test Result			
	2412				
802.11b	2437				
	2462				
	2412				
802.11g	2437				
	2462	>000/			
000 44	2412	>98%			
802.11n (HT20)	2437				
(П120)	2462				
000 44	2422				
802.11n (HT40)	2437				
(1140)	2452				
Please see belov	w plots				



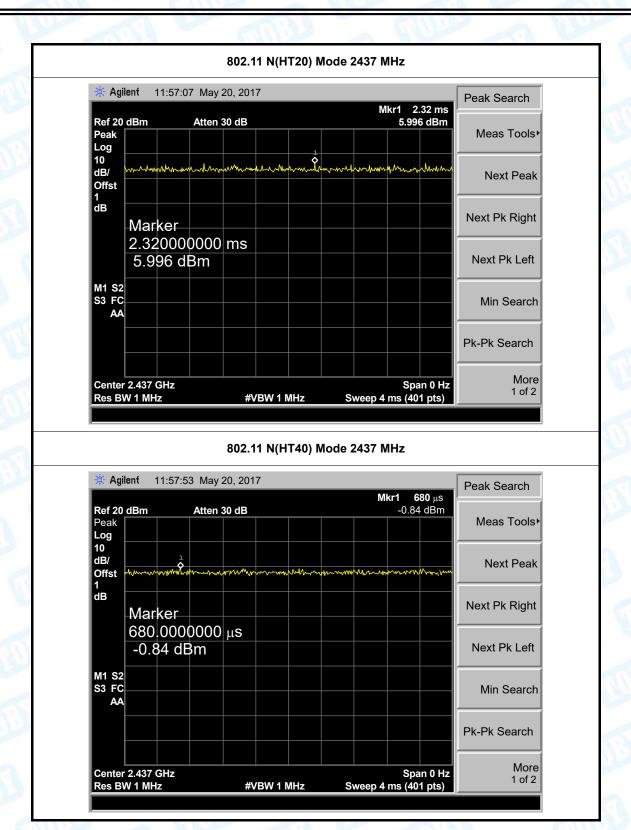
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9. Power Spectral Density Test

9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)				
Test Item	Limit	Frequency Range(MHz)		
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5		

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto(8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

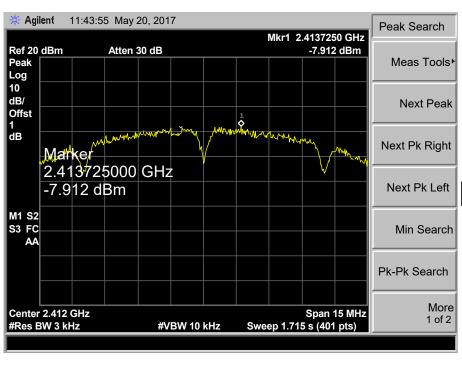


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9.5 Test Data

EUT:	Interactive	e Touch Screen	Model:	H4 OneScreen
Temperature:	25 ℃		Relative Humidity:	55%
Test Voltage:	AC 120V/	60HZ		
Test Mode:	TX 802.11B Mode			0
Channel Freq	uency	Power D	Density Limit	
(MHz)		(3 kHz/c	dBm)	(dBm)
2412		-7.9	12	
2437	2437 -6.880		8	
2462		-6.88	36	

802.11B Mode





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#VBW 10 kHz

Center 2.462 GHz #Res BW 3 kHz

Pk-Pk Search

Span 15 MHz

Sweep 1.715 s (401 pts)

More

1 of 2

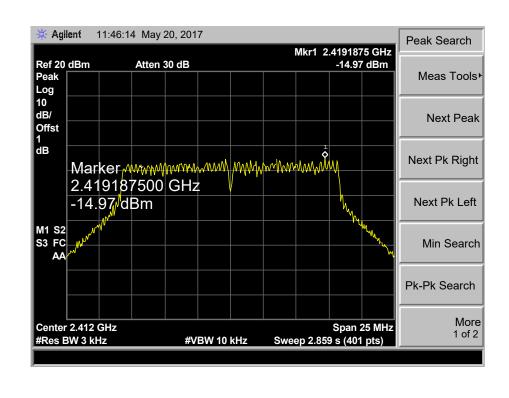


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EUT:	Interactive	e Touch Screen	Model:	H4 OneScreen
Temperature:	25 ℃		Temperature	25 ℃
Test Voltage:	AC 120V/	60HZ		
Test Mode:	TX 802.1	1G Mode		
Channel Erec	10001	Bower Don	oitu	Limit

Channel Frequency	Power Density	Limit
(MHz)	(3 kHz/dBm)	(dBm)
2412	-14.97	
2437	-14.71	8
2462	-14.81	

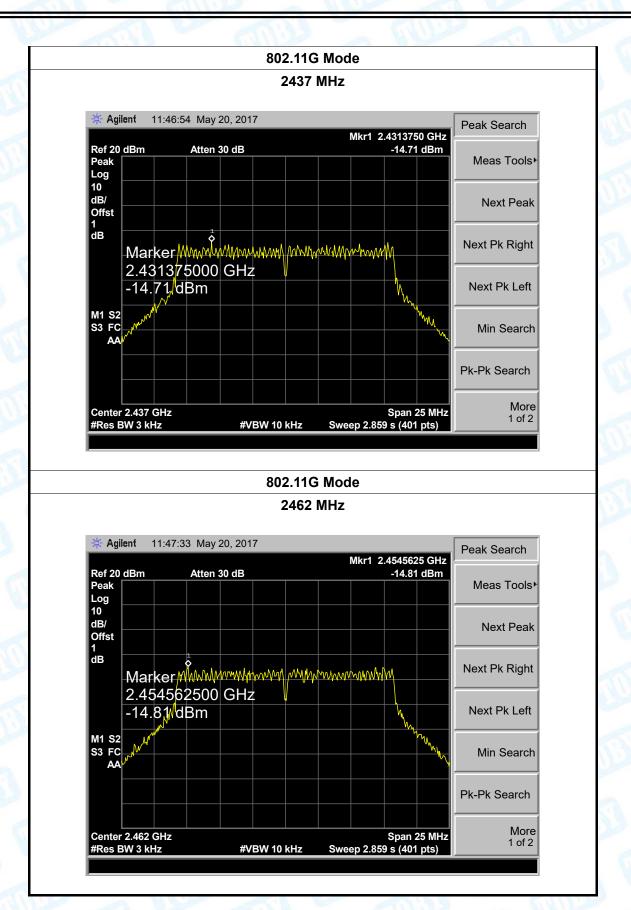
802.11G Mode





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2437

2462

Report No.: TB-FCC153898

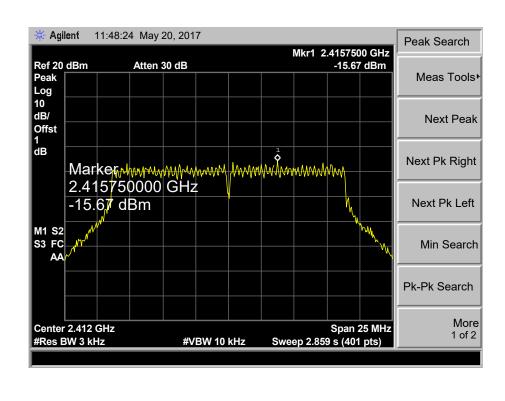
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8

EUT:	Interactive	e Touch Screen	Model:	H4 OneScreen		
Temperature:	25 ℃		Temperature:	25 ℃		
Test Voltage:	AC 120V	60HZ	2.0			
Test Mode:	TX 802.1	TX 802.11N(HT20) Mode				
Channel Fred	uency	Power De	ensity	Limit		
(MHz)		(3 kHz/d	Bm)	(dBm)		
2412		-15.6	7			

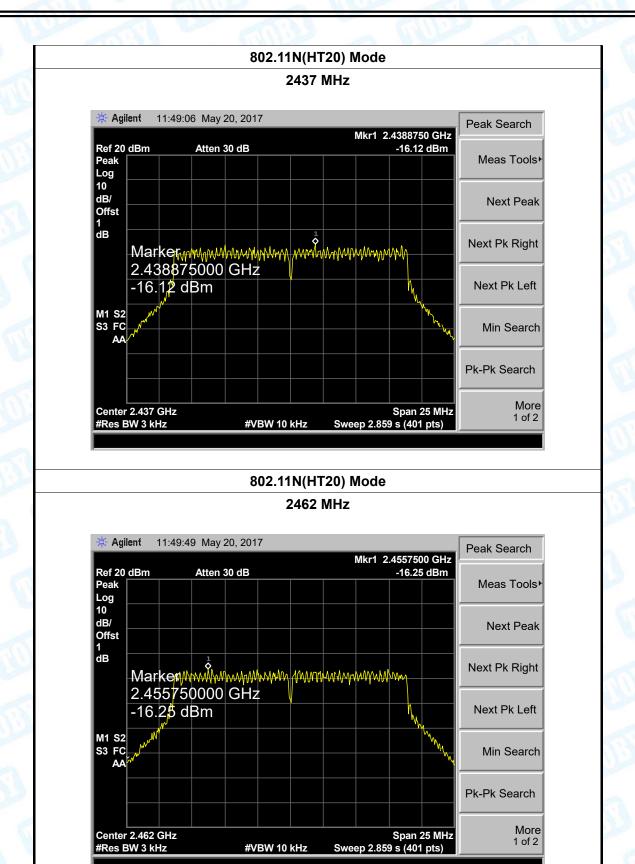
-16.25 **802.11N(HT20) Mode**

-16.12





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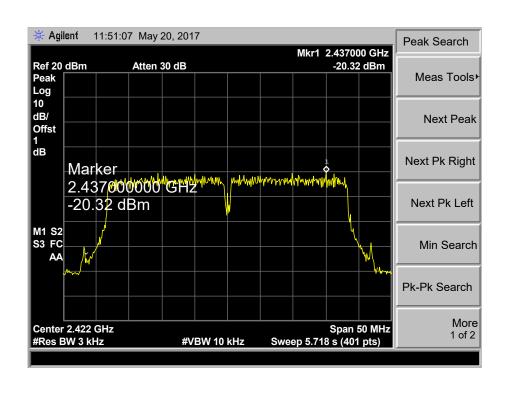




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EUT:	Interactive	e Touch Screen	Model:	H4 OneScreen
Temperature:	25 ℃		Temperature:	25 ℃
Test Voltage:	AC 120V/	60HZ	13 m	
Test Mode:	TX 802.11N(HT40) Mode			
Channel Freq	uency	Power Dens	sity	Limit
(MHz)		(3 kHz/dBr	n)	(dBm)
2422		-20.32		
2437		-20.39		8
2452		-19.77		
000 441/41740) 14				

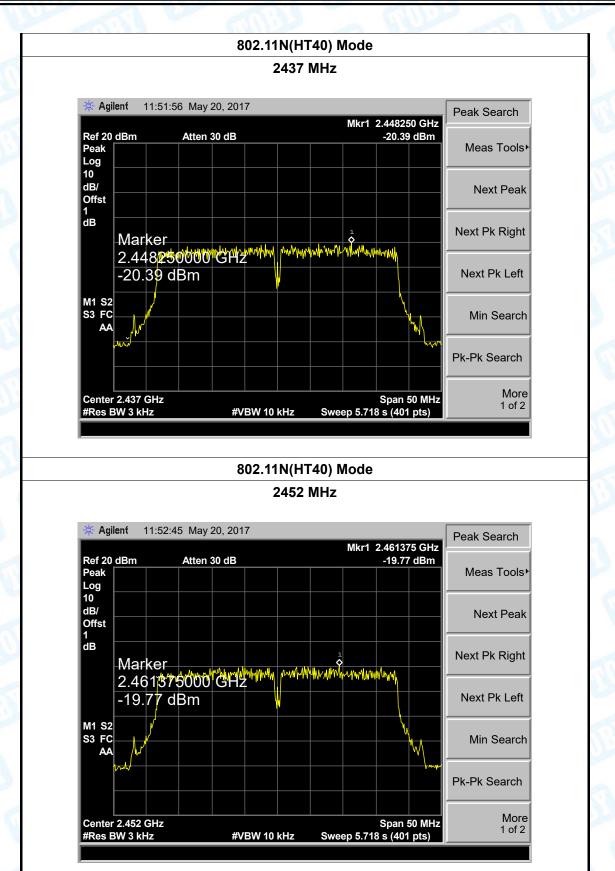
802.11N(HT40) Mode





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10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 5 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

The EUT antenna is a FPC Antenna. It complies with the standard requirement.

	Antenna Type	
Tip I	☐Permanent attached antenna	OM.
The state of the s	⊠Unique connector antenna	
The state of the s	☐Professional installation antenna	MILL

----END OF REPORT----