

FCC RADIO TEST REPORT FCC ID: 2AJQ07518

Product: QOMO Interactive Touch Screen

Trade Name: N/A

Model Name: 7518

QIT1343,QIT1350,QIT1355,QIT1360,QIT1365, QIT1370,QIT1375,QIT1385,QIT1390,QIT1398, QIT13A0,QIT2350,QIT2355,QIT2360,QIT2365,

Serial Model: QIT2375,QIT2385,QIT23A0,QIT6350,QIT6355,

QIT6360,QIT6365,QIT6370,QIT6375,QIT6385, QIT63A0,43I8,50I8,55I8,60I8,65I8,70I8,85I8,

9018,9818

Report No.: POCE- 20160905213R

Prepared for

QOMO,LLC

46950 Magellan Drive, Lot4 Wixom, MI48393, USA

Prepared by

Shenzhen POCE Technology Co.,Ltd.

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Applicant's name: QOMO,LLC

Report No.: POCE- 20160905213R

TEST RESULT CERTIFICATION

Address:	46950 Ma	gellan Drive,Lot4 Wixom,MI48393,USA
Manufacture's Name:	QOMO,LL	_C
Address:	46950 Ma	gellan Drive,Lot4 Wixom,MI48393,USA
Product description		
Product name:	QOMO Int	teractive Touch Screen
Model and/or type reference :		
Serial Model:	QIT1370,0 QIT13A0,0 QIT2375,0 QIT6360,0	QIT1350,QIT1355,QIT1360,QIT1365, QIT1375,QIT1385,QIT1390,QIT1398, QIT2350,QIT2355,QIT2360,QIT2365, QIT2385,QIT23A0,QIT6350,QIT6355, QIT6365,QIT6370,QIT6375,QIT6385, 4318,5018,5518,6018,6518,7018,8518,
Standards:	FCC Part	15.247, KDB558074 D01 DTS Meas Guidance v03r03
Test procedure	ANSI C63	3.10-2013
	n complian	ted by POCE, and the test results show that the ce with the FCC requirements. And it is applicable only t.
·	ised by PC	in full, without the written approval of POCE, this OCE, personal only, and shall be noted in the revision of
Date (s) of performance of tests	:	01 Sep. 2016 ~10 Sep. 2016
Date of Issue	:	10 Sep. 2016
Test Result	:	Pass
Testing Engine	eer : -	(Lynn Chen)
Technical Man	ager :	(Carlen Liu)
Authorized Sig	ınatory : -	(Tommy Zhang)



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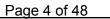




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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

K	FCC Part15 (15.247) , Subpart C KDB558074 D01 DTS Meas Guidance v03r05				
Standard Section	Test Item	Judgment	Remark		
15.207(a)	AC Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)(3) 15.31(e)	Peak Output Power	PASS			
15.247 (d) 15.205	Radiated Spurious Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.247(d), 15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			



1.1 TEST FACILITY

Shenzhen POCE Technology Co.,Ltd.

Add.: Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen,

China

FCC Registered No.: 222278

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	QOMO Interactive Touch Screen				
Trade Name	N/A				
Model Name	7518	7518			
Serial Model	QIT1343,QIT1350,QIT1355,QIT1360,QIT1365, QIT1370,QIT1375,QIT1385,QIT1390,QIT1398, QIT13A0,QIT2350,QIT2355,QIT2360,QIT2365, QIT2375,QIT2385,QIT23A0,QIT6350,QIT6355, QIT6360,QIT6365,QIT6370,QIT6375,QIT6385, QIT63A0,43I8,50I8,55I8,60I8,65I8,70I8,85I8, 90I8,98I8				
Model Difference	All the same, Only mo	del name is different.			
Product Description	All the same,Only model name is different. The EUT is a QOMO Interactive Touch Screen Operation				
Channel List	Please refer to the Note 2.				
Ratings	AC 120V				
Adapter	N/A				
Battery	N/A				
Connecting I/O Port(s)	Please refer to the Us	ser's Manual			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.





	Channel List for 802.11b/g/n(20)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	Reverse SMA Antenna	N/A	3.17	Wifi Antenna



2.2 DESCRIPTION OF TEST MODES

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 above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 4	Link Mode	

For Radiated Emission			
Final Test Mode Description			
Mode 1	802.11b CH1/ CH6/ CH11		
Mode 2	802.11g CH1/ CH6/ CH11		
Mode 3	802.11n CH1/ CH6/ CH11		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



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2.3	BLOCK DIGRAM	SHOWING THE	CONFIGURATION	OF SYSTEM TESTED
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AC Plug E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	QOMO Interactive Touch Screen	N/A	7518	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column. (2)



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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

- taan	ation root oqui	31110111					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Statiualu
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



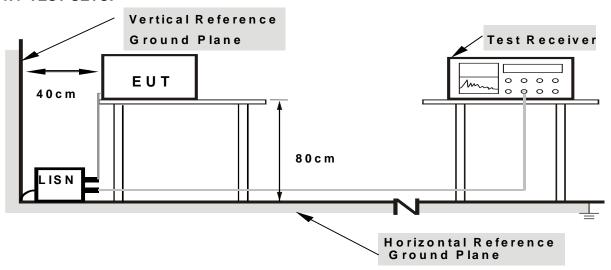
3.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



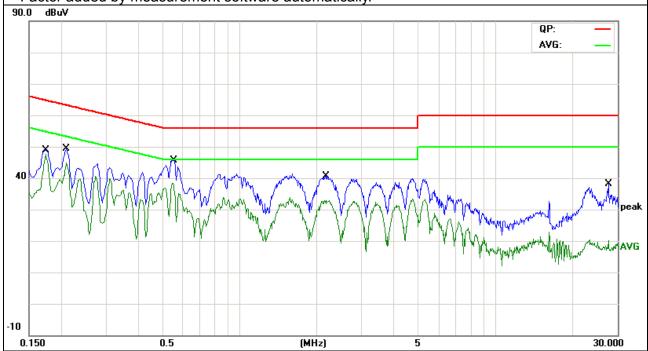
3.1.6 TEST RESULTS

EUT:	QOMO Interactive Touch Screen	Model Name. :	7518
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

	T		1	T	T	1
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1740	38.18	9.97	48.15	64.76	-16.61	QP
0.1740	37.69	9.97	47.66	54.76	-7.10	AVG
0.2100	38.07	10.02	48.09	63.20	-15.11	QP
0.2100	34.74	10.02	44.76	53.20	-8.44	AVG
0.5540	35.29	10.05	45.34	56.00	-10.66	QP
0.5540	27.45	10.05	37.50	46.00	-8.50	AVG
2.1860	28.69	10.05	38.74	56.00	-17.26	QP
2.1860	22.87	10.05	32.92	46.00	-13.08	AVG
27.5860	12.32	10.21	22.53	60.00	-37.47	QP
27.5860	2.74	10.21	12.95	50.00	-37.05	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 lever = Read lever + factor (LISN Factor +cable loss) Factor added by measurement software automatically.





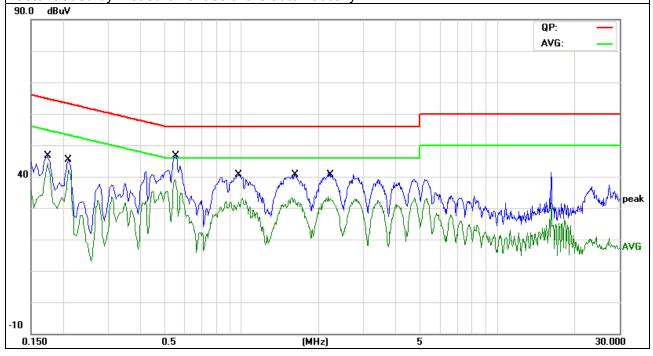
QOMO Interactive Touch EUT: Model Name. : 7518 Screen Temperature: 26 ℃ Relative Humidity: 54% Pressure: 1010hPa Phase: Ν Test Mode: Test Voltage : AC 120V/60Hz Mode 1

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1740	34.64	10.12	44.76	64.76	-20.00	QP
0.1740	34.04	10.12	44.16	54.76	-10.60	AVG
0.2100	34.18	10.12	44.30	63.20	-18.90	QP
0.2100	32.34	10.12	42.46	53.20	-10.74	AVG
0.5540	36.21	10.02	46.23	56.00	-9.77	QP
0.5540	28.24	10.02	38.26	46.00	-7.74	AVG
0.9700	28.87	10.15	39.02	56.00	-16.98	QP
0.9700	21.06	10.15	31.21	46.00	-14.79	AVG
1.6220	28.51	10.10	38.61	56.00	-17.39	QP
1.6220	21.66	10.10	31.76	46.00	-14.24	AVG
2.2260	27.44	10.06	37.50	56.00	-18.50	QP
2.2260	22.86	10.06	32.92	46.00	-13.08	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. lever = Read lever + factor (LISN Factor +cable loss) Factor added by measurement software automatically.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	IV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

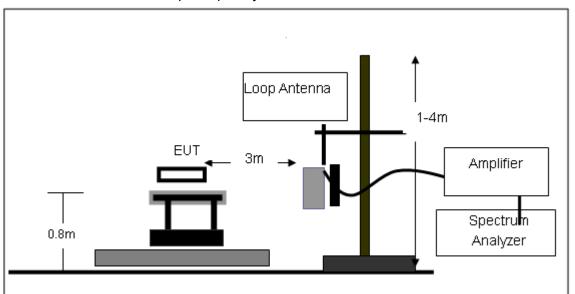
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

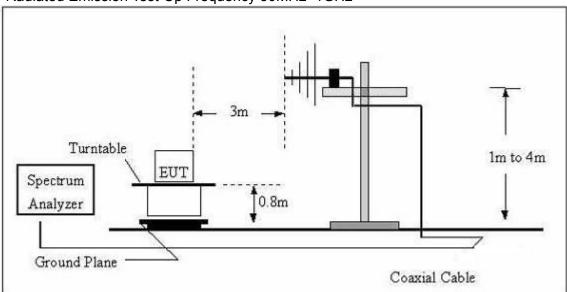


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

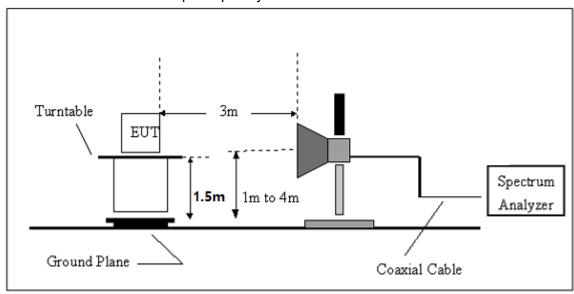


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	QOMO Interactive Touch Screen	Model Name. :	7518
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode:	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



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3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

IEU I •	QOMO Interactive Touch Screen	Model Name :	7518
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	AC 120V
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V	73.3593	29.73	6.56	36.29	40.00	-3.71	QP
V	112.5241	28.24	11.79	40.03	43.50	-3.47	QP
V	167.8240	29.03	10.59	39.62	43.50	-3.88	QP
V	252.9482	27.98	13.94	41.92	46.00	-4.08	QP
V	336.0350	18.96	16.03	34.99	46.00	-11.01	QP
V	533.8318	17.52	21.58	39.10	46.00	-6.90	QP
Н	76.7806	28.56	7.14	35.70	40.00	-4.30	QP
Н	155.9097	27.35	11.38	38.73	43.50	-4.77	QP
Н	215.2675	27.39	9.91	37.30	43.50	-6.20	QP
Н	330.1949	21.14	15.85	36.99	46.00	-9.01	QP
Н	416.1791	15.58	18.92	34.50	46.00	-11.50	QP
Н	595.1326	14.92	22.60	37.52	46.00	-8.48	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level Factor added by measurement software automatically.

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3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

802.11b

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		Mi	d Channel	(2412 MHz)			
Horizontal	4824.143	34.35	10.44	44.79	54.00	-9.21	AVG
Horizontal	4824.156	54.85	10.44	65.29	74.00	-8.71	peak
Vertical	7236.126	45.21	12.39	57.60	74.00	-16.40	peak
Vertical	7236.135	30.12	12.39	42.51	54.00	-11.49	AVG
Vertical	4824.128	36.23	10.44	46.67	54.00	-7.33	AVG
Vertical	4824.213	53.68	10.44	64.12	74.00	-9.88	peak
		Mic	d Channel	(2437 MHz)			
Horizontal	4874.158	33.12	10.40	43.52	54.00	-10.48	AVG
Horizontal	4874.258	50.23	10.40	60.63	74.00	-13.37	peak
Vertical	7311.125	25.13	12.75	37.88	54.00	-16.12	AVG
Vertical	7311.235	42.02	12.75	54.77	74.00	-19.23	peak
Vertical	4874.144	52.12	10.40	62.52	74.00	-11.48	peak
Vertical	4874.156	32.65	10.40	43.05	54.00	-10.95	AVG
		Hig	h Channe	l (2462 MHz)			
Horizontal	4924.123	53.21	10.39	63.60	74.00	-10.40	peak
Horizontal	4924.220	34.03	10.39	44.42	54.00	-9.58	AVG
Vertical	7386.121	29.12	12.68	41.80	54.00	-12.20	AVG
Vertical	7386.145	42.03	12.68	54.71	74.00	-19.29	peak
Vertical	4924.135	34.26	10.39	44.65	54.00	-9.35	AVG
Vertical	4924.147	53.26	10.39	63.65	74.00	-10.35	peak

Note:"802.11b" mode is the worst mode.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



3.2.9 BAND EDGE EMISSION(RADIATED MEASUREMENT):

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
			802.11b				
2400	82.19	-12.99	69.2	74	-4.8	peak	Vertical
2400	84.39	-12.99	71.4	74	-2.6	peak	Horizontal
2400	59.82	-12.99	46.83	54	-7.17	AVG	Vertical
2400	59.62	-12.99	46.63	54	-7.37	AVG	Horizontal
2483.5	59.20	-12.78	46.42	74	-27.58	peak	Vertical
2483.5	52.74	-12.78	39.96	74	-34.04	peak	Horizontal
			802.11g				
2400	79.32	-12.99	66.33	74	-7.67	peak	Horizonta
2400	57.27	-12.99	44.28	54	-9.72	AVG	Horizontal
2400	83.59	-12.99	70.6	74	-3.4	peak	Vertical
2400	60.37	-12.99	47.38	54	-6.62	AVG	Vertical
2483.5	60.51	-12.78	47.73	74	-26.27	peak	Vertical
2483.5	61.19	-12.78	48.41	74	-25.59	peak	Horizontal
			802.11n				
2400	84.29	-12.99	71.3	74	-2.7	peak	Horizonta
2400	60.84	-12.99	47.85	54	-6.15	AVG	Horizontal
2400	83.79	-12.99	70.8	74	-3.2	peak	Vertical
2400	60.33	-12.99	47.34	54	-6.66	AVG	Vertical
2483.5	58.21	-12.78	45.46	74	-28.54	peak	Vertical
2483.5	55.51	-12.78	42.73	74	-31.27	peak	Horizontal

Note: Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Factor added by measurement software automatically.
Emission Level is less(PK) than AV Limits,No need AV lever



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

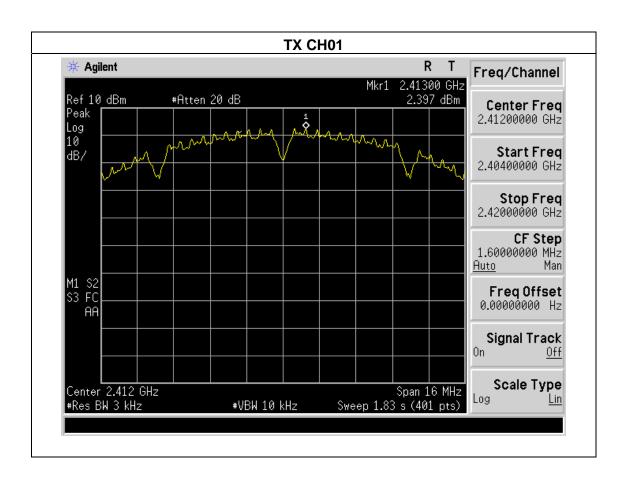
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

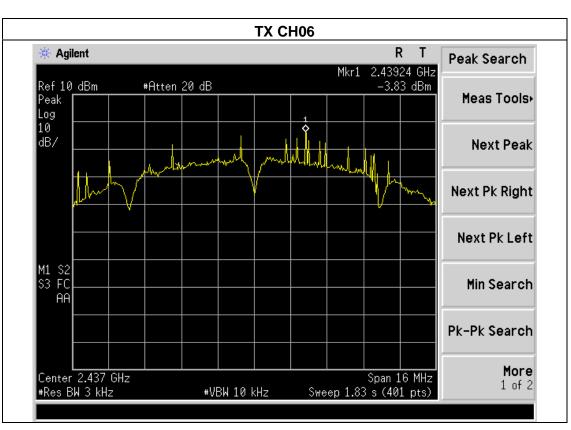


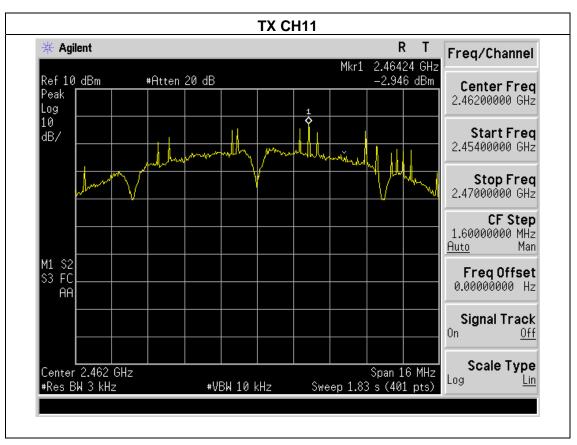
4.1.5 TEST RESULTS

IEUI •	QOMO Interactive Touch Screen	Model Name :	7518	
Temperature :	25 ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage :	AC 120V	
Test Mode :	TX b Mode /CH01, CH06, CH11			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	2.397	8	PASS
2437 MHz	-3.83	8	PASS
2462 MHz	-2.94	8	PASS









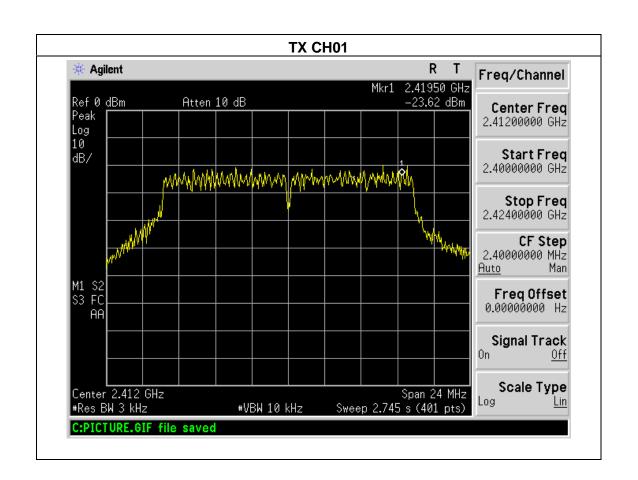
EUT: QOMO Interactive Touch Screen Model Name: 7518

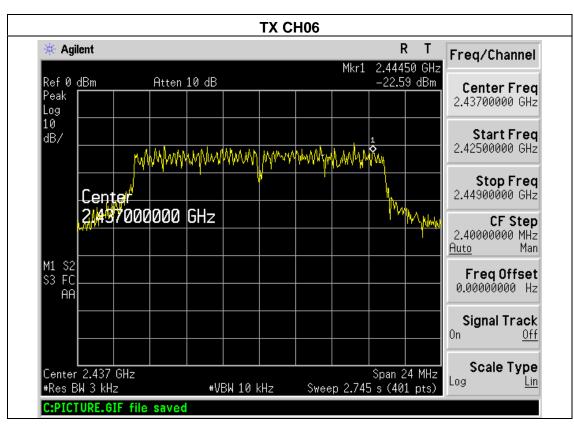
Temperature: 25 °C Relative Humidity: 60%

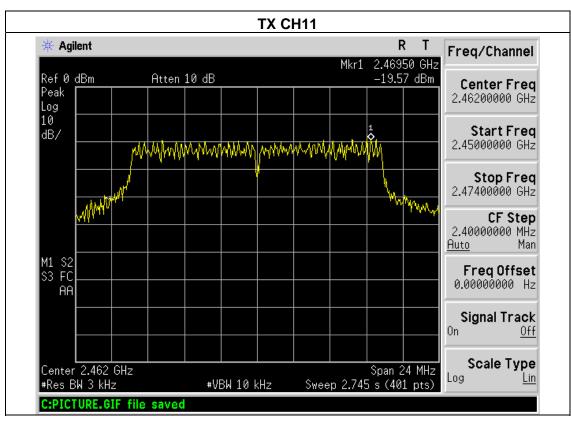
Pressure: 1015 hPa Test Voltage: AC 120V

Test Mode: TX g Mode /CH01, CH06, CH11

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-23.62	8	PASS
2437 MHz	-22.59	8	PASS
2462 MHz	-19.57	8	PASS









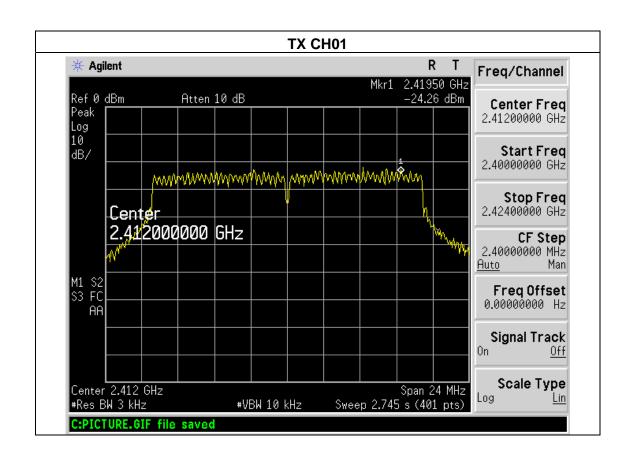
EUT: QOMO Interactive Touch Screen Model Name: 7518

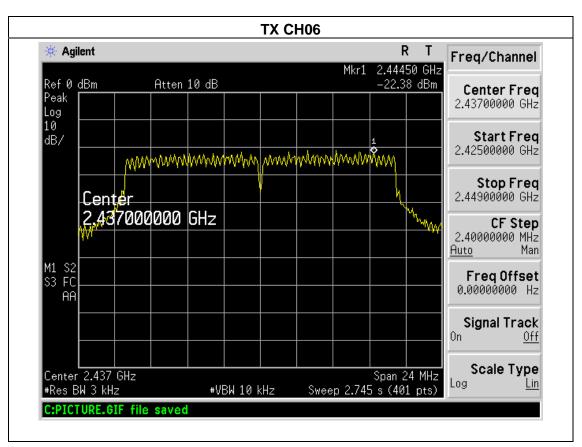
Temperature: 25 °C Relative Humidity: 60%

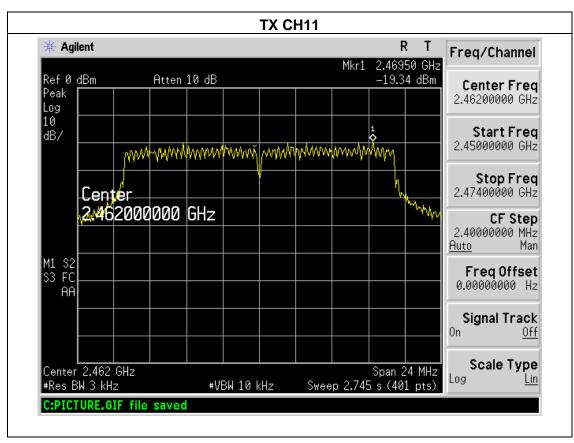
Pressure: 1015 hPa Test Voltage: AC 120V

Test Mode: TX n(20) Mode /CH01, CH06, CH11

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-24.26	8	PASS
2437 MHz	-22.38	8	PASS
2462 MHz	-19.34	8	PASS









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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- 1. Set RBW= 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

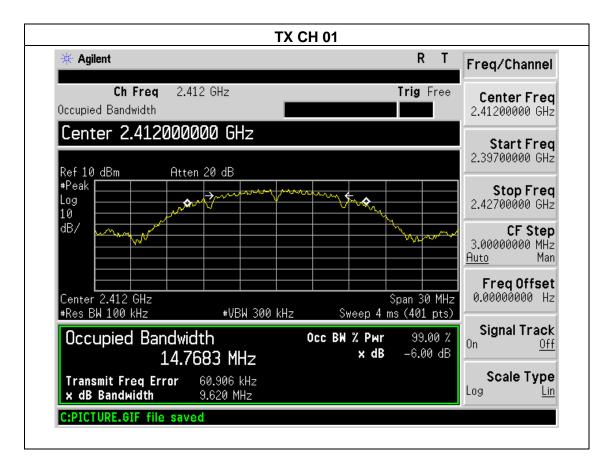
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



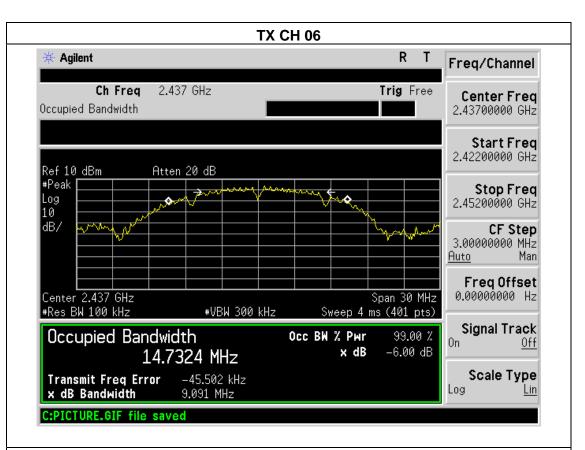
5.1.5 TEST RESULTS

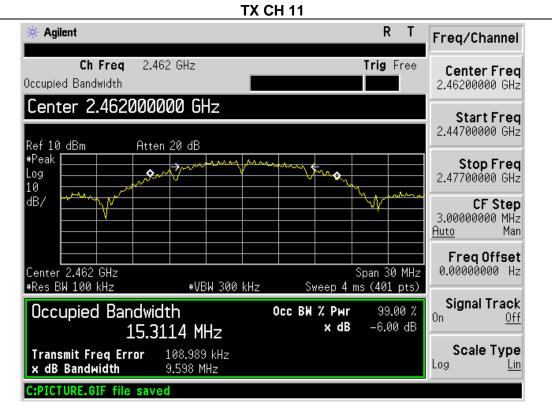
EUT:	QOMO Interactive Touch Screen	Model Name :	7518
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.62	500	Pass
Middle	2437	9.09	500	Pass
High	2462	9.59	500	Pass











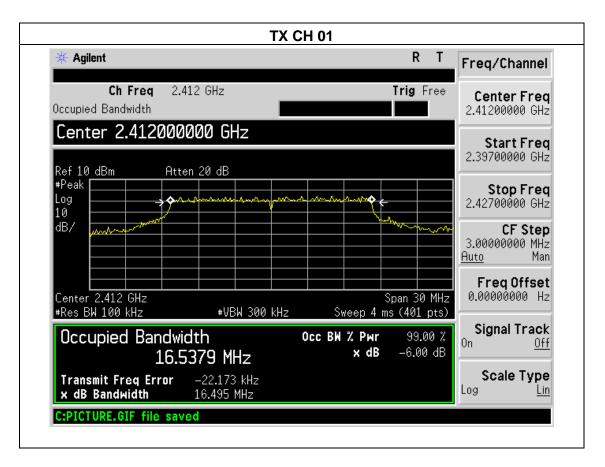
EUT: QOMO Interactive Touch Screen Model Name: 7518

Temperature: 25 °C Relative Humidity: 60%

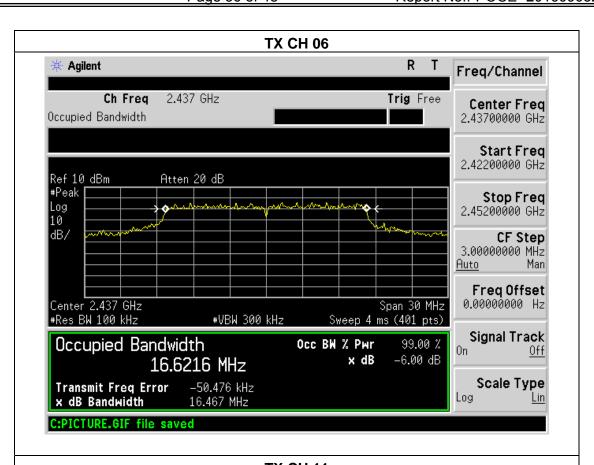
Pressure: 1012 hPa Test Voltage: AC 120V

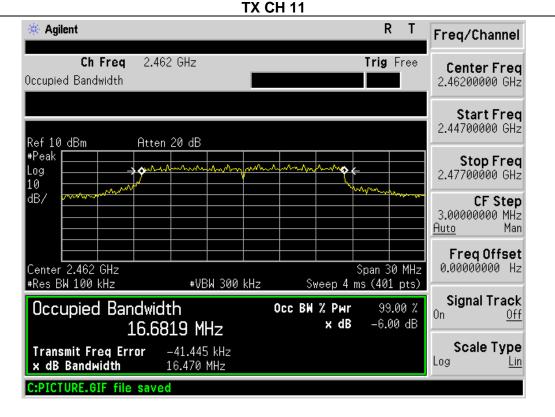
Test Mode: TX g Mode /CH01, CH06, CH11

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.49	500	Pass
Middle	2437	16.46	500	Pass
High	2462	16.47	500	Pass











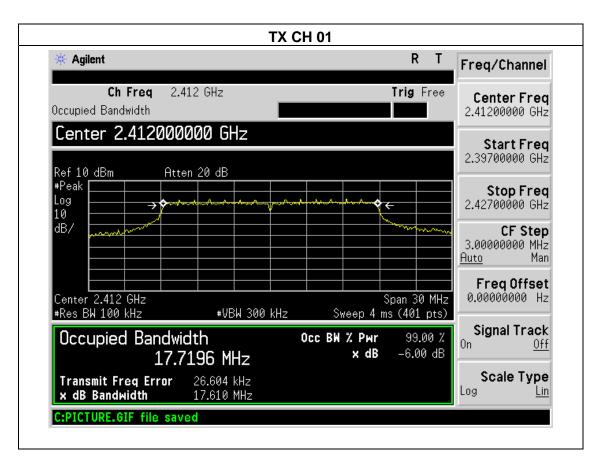
EUT: QOMO Interactive Touch Screen Model Name: 7518

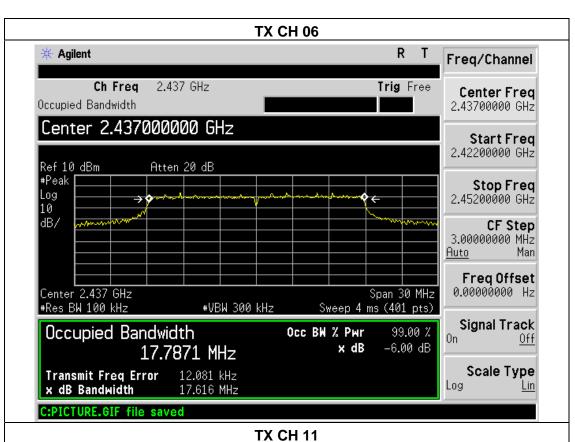
Temperature: 25 °C Relative Humidity: 60%

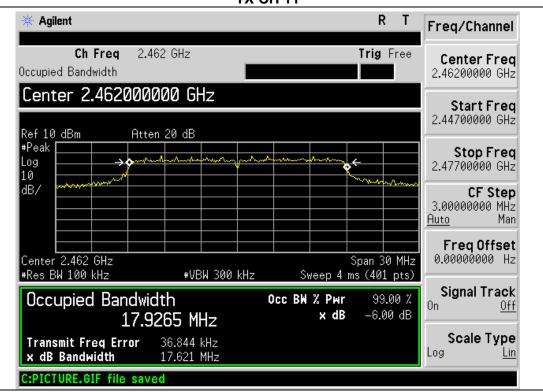
Pressure: 1012 hPa Test Voltage: AC 120V

Test Mode: TX n(20) Mode /CH01, CH06, CH11

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.61	500	Pass
Middle	2437	17.61	500	Pass
High	2462	17.62	500	Pass









6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	tem Limit Frequency Range (MHz)		Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	DOWER	METER
	I OWER	IIIL I LIX

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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6.1.5 TEST RESULTS

IEUI •	QOMO Interactive Touch Screen	Model Name :	7518
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX b/g/n Mode /CH01, CH06, CH11		

TX 802.11b Mode				
Test Channe	Frequency	Maximum Conducted Output Power(PK)	LIMIT	
	(MHz)	(dBm)	dBm	
CH01	2412	17.32	30	
CH06	2437	17.12	30	
CH11	2462	17.16	30	
	TX 802.11g Mode			
CH01	2412	15.81	30	
CH06	2437	15.13	30	
CH11	2462	15.12	30	
TX 802.11n Mode				
CH01	2412	14.63	30	
CH06	2437	14.14	30	
CH11	2462	14.21	30	

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7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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7.4 TEST RESULTS

IEU I •	QOMO Interactive Touch Screen	Model Name :	7518
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result		
	802.11b mode				
Left-band	41.10	20	Pass		
Right-band	30.20	20	Pass		
	802.11g mode				
Left-band	31.13	20	Pass		
Right-band	38.25	20	Pass		
802.11n mode					
Left-band	31.55	20	Pass		
Right-band	31.95	20	Pass		



BAND EDGE (CONDUCTED)

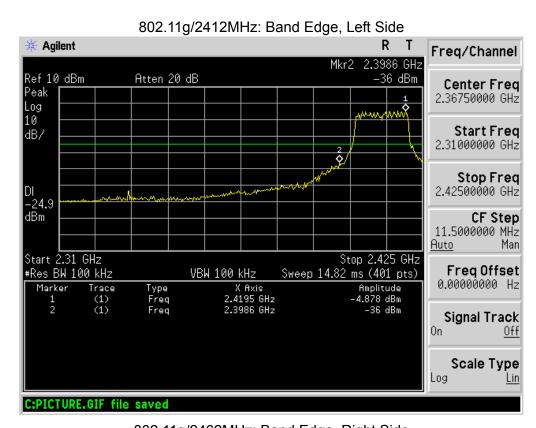




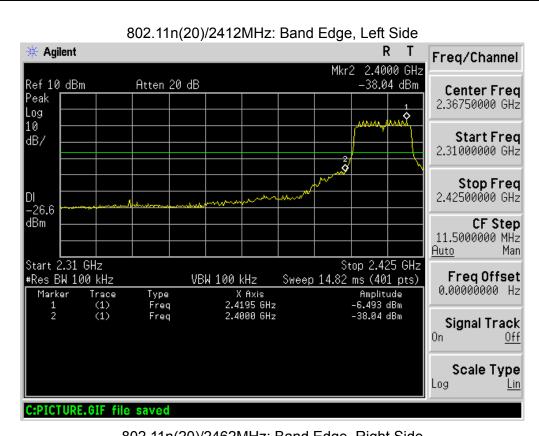
802.11b/2462MHz: Band Edge, Right Side

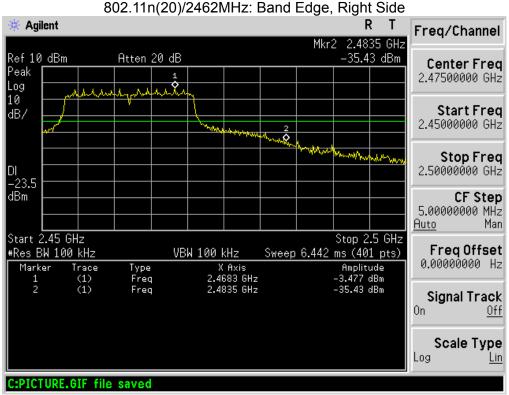














8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

The EUT antenna is a reverse SMA (External) antenna. It comply with the standard requirement.



9. EUT TEST PHOTO



