

CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER: CGZ3090903-02730-O(1)



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.

CENTRE OF TESTING SERVICE





	TEST REPORT For FCC ID	
4	7 CFR PART 15 July 10, 2008	
Report Reference No	CGZ3090903-02730-O(1)	
Date of issue	14 September 2009	
Testing Laboratory Name	CETRE OF TESTING SERVICE CO., L	_TD
Address	 Building F, Dachuang industrial park, N Guangzhou, China. 	o.379, Zhongshan Dadao,
Testing location/ procedure	Full application of Harmonised standard	ds ■
	Partial application of Harmonised stand	lards □
	Other standard testing method \square	
Applicant's name	QOMO HiteVision, LLC.	
Address	28265 Beck Road, Suite C1, Wixom, M	148393, USA
Test specification		
Standard	·· 47 CFR PART 15 July 10, 2008	
Test Report Form No	CTSEMC-1.0	
TRF Originator	CENTRE OF TESTING SERVICE CO.,	, LTD
Master TRF	Dated 2009-01	
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Test item description	. QClick	
Trade Mark	. QOMO	
Manufacturer	. QOMO HiteVision, LLC.	
Model/Type reference	. QRF300, QRF3XX, QRF300-T	
Ratings	. Battery 1.5V*2	
Operating Frequency	2424.0 ~ 2443.6MHz ISM Band	
Result	Positive	
Compiled by:	Supervised by:	Approved by:

Quty Liu / File administrators

() were

Jackson Zhang / Technique principal

Kevin Liang / Manager

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Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn





FCCID-TEST REPORT

Test Report No.: CGZ3090903-02730-O(2)

21. September 2009 Date of issue

Type / Model	QRF300, QRF3XX, QRF300-T
EUT	QClick
Applicant	QOMO HiteVision, LLC.
Address	28265 Beck Road, Suite C1, Wixom, MI 48393, USA
Telephone	+1-866-990-7666
Fax	+1-248-281-1999
Contact	Weihua Li
Manufacturer	QOMO HiteVision, LLC.
Address	28265 Beck Road, Suite C1, Wixom, MI 48393, USA
Telephone	+1-866-990-7666
Fax	+1-248-281-1999
Contact	Weihua Li
Test report holder	QOMO HiteVision, LLC.
Address	28265 Beck Road, Suite C1, Wixom, MI 48393, USA
Telephone	+1-866-990-7666
Fax	+1-248-281-1999
Contact	Weihua Li

Test Result according to the standards on page 3: Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn





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1 TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 July 10, 2008
- ANSI C63.4-2003

2 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	31 August 2009
Testing commenced on	01 September 2009
Testing concluded on	11 September 2009

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes ar
--

_	ranniou.
	- not fulfilled.

- fulfilled

The equipment under test

- fulfils the FCC requirements cited on page 3.
- does not fulfil the FCC requirements cited on page 3.

3 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage	:	☐ AC 120V/60 Hz	AC 115V/60Hz
		□ 12 V DC	24 V DC
		☐ Other (Specified blank below)	Battery 1.5V*2

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- □ Standby
- Test program (customer specific)

Operation mode: Channel 0 (2424.0MHz), Channel 25 (2433.6MHz), Channel 49 (2443.6MHz) Note: X position of EUT is the worst case. So only these test results be recorded in the test report.

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3.4 EUT configuration

3.4.1. Description of configuration (EUT)

3.4.1.1. EUT Information (sample)

Description	:	QClick
Model Number	:	QRF300
Operation frequency	:	2424 ~ 2443.6MHz ISM Band
Radio Technology	:	MSK
Modulation Technology	:	MSK modulation
Antenna	:	Integral antenna, met requirement of FCC 15.203
Antenna Assembly Gain	:	0dBi (maximum)

Differences among these models

Product Name	Model Number	Enclose	Color	PCB Layout	Structure	Figure	Button	Component
QClick	QRF300	as sample	Black	as sample	as sample	as sample	as sample	as sample
QClick	QRF3XX	Samde as the sample	Samde as the sample	same as the sample	same as the sample	Samde as the sample	Samde as the sample	same as the sample
QClick	QRF300-S	Samde as the sample	Samde as the sample	same as the sample	same as the sample	Samde as the sample	Samde as the sample	same as the sample

3.4.2. Tested Supporting System Details

3.4.2.1. Not requirement

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 24, 2009.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 21, 2009.

4.3 Environmental conditions

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

Temperature:	15~35 °C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- □ The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

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

5 Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Disturbance Emission Test	FCC Part 15 C: 15.207 ANSI C63.4-2003	N/A
Radiated Emission Test	FCC Part 15 C: 15.249 ANSI C63.4-2003	PASS
20 dB Bandwidth Test	FCC Part 15 C: 15.249 ANSI C63.4-2003	PASS
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2003	PASS
N/A is an abbreviation for Not Applicable.		

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6 Power line conducted Emission Test

(According to Paragraph (f) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.)

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7 Radiated disturbance (electric field)

7.1.Test Equipment

Radia	Radiated disturbance (electric field)				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2008/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2008/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2008/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2008/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2008/12

7.2.Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators

EUT

(EUT: Qclick)

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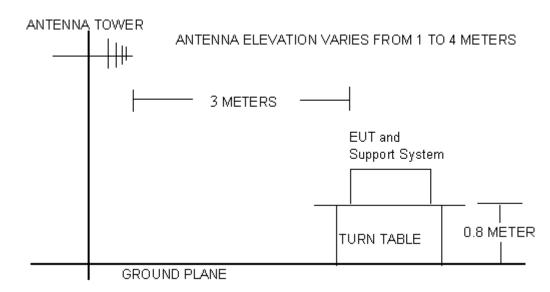
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7.2.2 Anechoic Chamber Setup Diagram



7.3. Radiated Emission Limit Standard: FCC 15.249

FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT
MHz	Meters	μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Local Oscillator:	3	114.0 dB(μ ^V)/	
Above 1000	3	Other:74.0 dB 54.0 dB(μV)/	. , , , ,

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.5. Operating Condition of EUT

- 7.5.1. Setup the EUT and simulator as shown as Section 7.2.
- 7.5.2. Turn on the power of all equipment.
- 7.5.3.Let the EUT work in test mode (TX) and measurement it.

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7.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2003 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Radiated emission test for 18-26.5GHz is measured with peak detector, the RBW is 1MHz and VBW is 3MHz. The measure result complied average limit. So it also complied peak limit.

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.7

7.7. Radiated Emission Test Results

PASSED

The frequency range from 30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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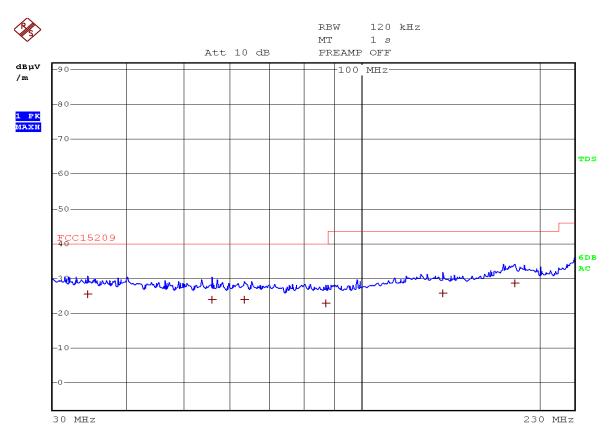
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Channel:	0 (2424.0MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30-230MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	



TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
Quasi Peak	34.4 MHz	25 . 57	-14.42
Quasi Peak	55.84 MHz	23.79	-16.20
Quasi Peak	63.32 MHz	23.96	-16.03
Quasi Peak	87.08 MHz	22.92	-17.07
Quasi Peak	137.64 MHz	25.60	-17.90
Quasi Peak	182.32 MHz	28.57	-14.92

Note: 1. Emission level=Read level + Factor

2. Factor=Antenna factor + Cable loss

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Channel:	0 (2424.0MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	230-1000MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	



RBW 120 kHz MT 1 s tt 10 dB PREAMP OFF

TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
Quasi Peak	293.52 MHz	24.88	-21.11
Quasi Peak	298.68 MHz		-19.21
Quasi Peak	442 MHz	35.20	-10.79
Quasi Peak	602.72 MHz	30.66	-15.33
Quasi Peak	765.32 MHz	32.30	-13.69
Quasi Peak	909.88 MHz	36.16	-9 . 83

Note: 1. Emission level=Read level + Factor

2. Factor=Antenna factor + Cable loss

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Channel:	0 (2424.0MHz)	Result:	■ - passed	
Test point:	Horizontal		☐ - not passed	
Frequency range:	1G-26.5GHz			

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	

Frequency	Result [dBµV]	Limit [d	BµV]	Dlim	it[dBµV]
[MHz]	Average	Peak	Average	Peak	Average	Peak
1834.7	45.1	54.0	54	74	8.9	20.0
2424.0	54.0	65.4	94	114	40.0	48.6
2977.8	44.1	53.3	54	74	9.9	20.7
7245.1	47.0	56.5	54	74	7.0	27.5
14897.7	41.1	50.0	54	74	12.9	24.0
17187.4	41.5	52.0	54	74	12.5	22.0
25274.5	43.2	53.4	54	74	10.8	20.6

Note: 1. Emission level=Read level + Factor

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^{2.} Factor=Antenna factor + Cable loss

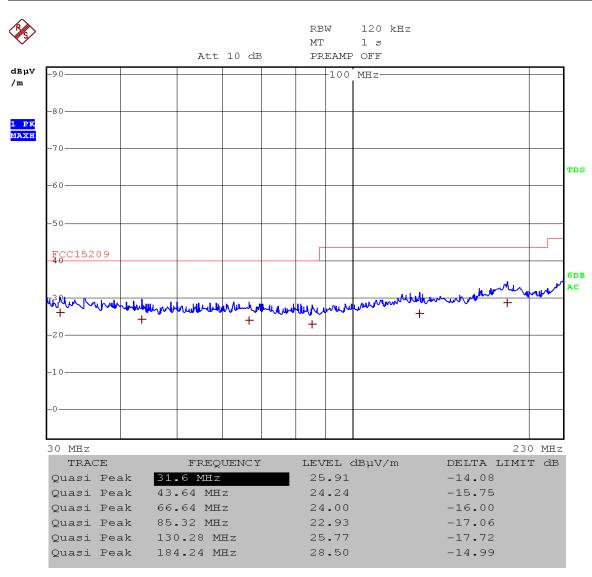
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Channel:	0 (2424.0MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30-230MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T



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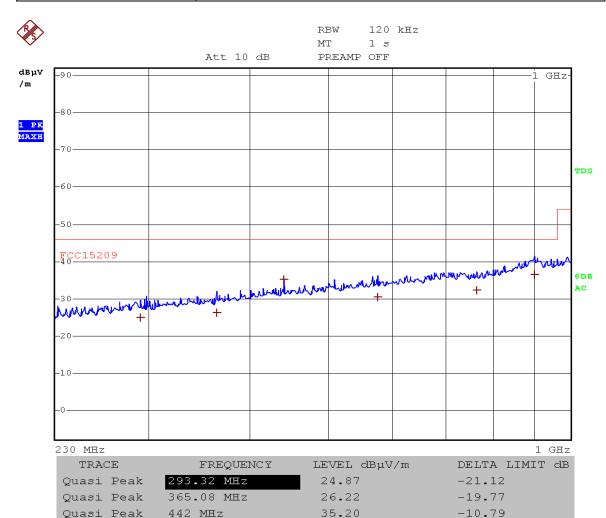
CENTRE OF TESTING SERVICE





Channel:	0 (2424.0MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	230-1000MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T



30.52

32.30

36.44

Note: 1. Emission level=Read level + Factor

2. Factor=Antenna factor + Cable loss

577.64 MHz

766.2 MHz

901.64 MHz

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Complaint line: +86-20-85533471 E-mail: cts@cts-lab.com.cn

Quasi Peak

Quasi Peak

Quasi Peak

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-15.47

-13.69

-9.55





CENTRE OF TESTING SERVICE

Channel:	0 (2424.0MHz)	Result:	■ - passed	
Test point:	Vertical		□ - not passed	
Frequency range:	1G-26.5GHz			

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T

Frequency	Result	[dBµV]	Limit [d	BµV]	Dlimit	[dBµV]
[MHz]	Average	Peak	Average	Peak	Average	Peak
1834.5	45.3	53.0	54	74	8.7	21.0
2424.0	55.1	65.8	94	114	38.9	48.2
2985.4	44.5	52.1	54	74	9.5	21.9
7278.7	47.0	56.5	54	74	7.0	17.5
14987.7	41.1	50.0	54	74	12.9	24.0
17187.4	41.6	52.0	54	74	12.4	22.0
25245.1	43.5	53.0	54	74	10.5	21.0

Note: 1. Emission level=Read level + Factor

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Report No.: CGZ3090903-02730-O(1) Page 18 of 45

^{2.} Factor=Antenna factor + Cable loss





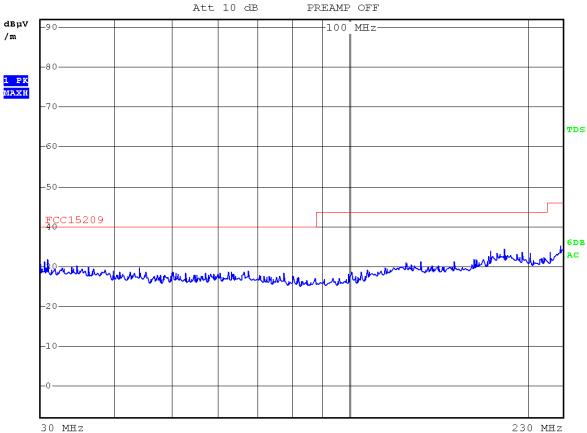
CENTRE OF TESTING SERVICE

Channel:	25 (2433.6MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30-230MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T



RBW 120 kHz MT 100 μs



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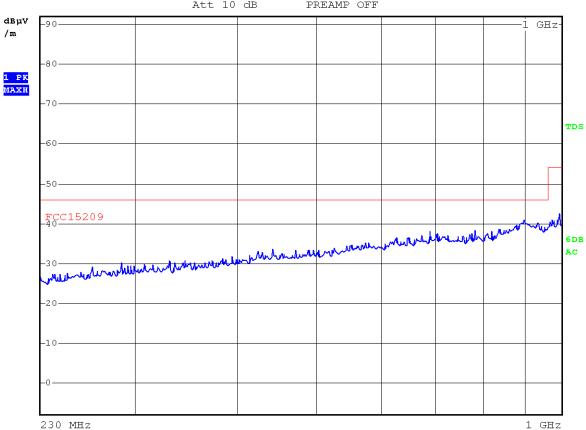
Channel:	25 (2433.6MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	230-1000MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T



RBW 120 kHz 100 µs MT

Att 10 dB PREAMP OFF



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CENTRE OF TESTING SERVICE

Channel:	25 (2433.6MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	1G-26.5Hz		

EUT	QClick			
Firm Name	QOMO HiteVision, LLC.			
Operating Condition	Battery 1.5V*2			
Test Condition	Ambient Temperature: 25°C Humidity: 56%			
Operator	Roy			
MODEL NO	QRF300, QRF3XX, QRF300-T			

Frequency	Result	[dBµV]	Limit [dBµV]		Dlimit[dBµV]	
[MHz]	Average	Peak	Average	Peak	Average	Peak
1734.7	45.0	53.9	54	74	9.0	20.1
2433.6	50.0	61.7	94	114	44.0	52.3
2988.1	44.5	52.0	54	74	9.5	22.0
7263.8	47.1	57.0	54	74	6.9	17.0
14954.7	41.8	50.1	54	74	12.8	23.9
17197.4	41.7	52.4	54	74	12.3	21.6
25285.7	43.0	53.9	54	74	11.0	20.1

Note: 1. Emission level=Read level + Factor

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^{2.} Factor=Antenna factor + Cable loss





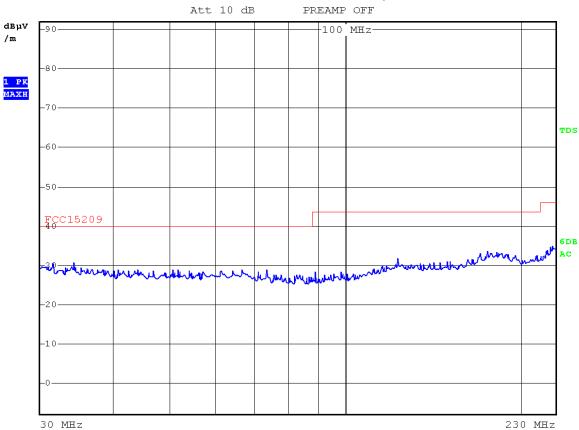
C	F	N	TR	F	ΩF	Т	FS	TIN	IG	SE	R۱	/10	F
v	_	IV	113	_	VI.		ட	1 111		UL	\mathbf{r}		

Channel:	25 (2433.6MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30-230MHz		

EUT	QClick			
Firm Name	QOMO HiteVision, LLC.			
Operating Condition	Battery 1.5V*2			
Test Condition	Ambient Temperature: 25°C Humidity: 56%			
Operator	Roy			
MODEL NO	QRF300, QRF3XX, QRF300-T			



RBW 120 kHz MT 100 µs



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CENTRE OF TESTING SERVICE

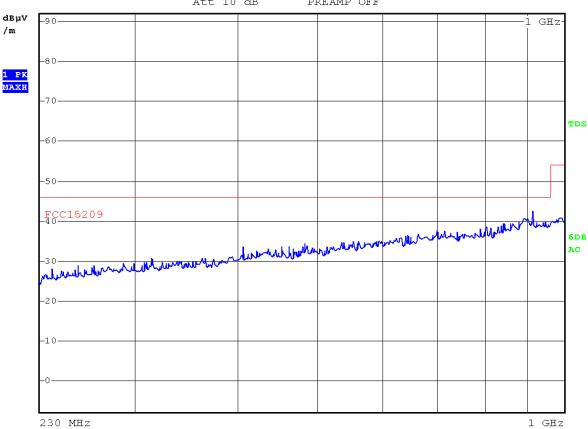
Channel:	25 (2433.6MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	230-1000MHz		

EUT	QClick			
Firm Name	QOMO HiteVision, LLC.			
Operating Condition	Battery 1.5V*2			
Test Condition	Ambient Temperature: 25°C Humidity: 56%			
Operator	Roy			
MODEL NO	QRF300, QRF3XX, QRF300-T			



RBW 120 kHz MT 100 μs

Att 10 dB PREAMP OFF



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CENTRE OF TESTING SERVICE

Channel:	25 (2433.6MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	1G-26.5GHz		

EUT	QClick			
Firm Name	QOMO HiteVision, LLC.			
Operating Condition	Battery 1.5V*2			
Test Condition	Ambient Temperature: 25°C Humidity: 56%			
Operator	Roy			
MODEL NO	QRF300, QRF3XX, QRF300-T			

Frequency	Result	[dBµV]	Limit [dBµV]	Dlimi	t[dBµV]
[MHz]	Average	Peak	Average	Peak	Average	Peak
1734.5	45.0	53.2	54	74	9.0	20.8
2433.6	50.5	61.9	94	114	43.5	52.1
2988.4	44.5	52.0	54	74	9.5	22.0
7263.7	47.1	57.0	54	74	6.9	17.0
14954.7	41.8	50.1	54	74	12.8	23.9
17197.4	41.7	52.4	54	74	12.3	21.6
25285.1	43.0	53.9	54	74	11.0	20.1

Note: 1. Emission level=Read level + Factor

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^{2.} Factor=Antenna factor + Cable loss



CENTRE OF TESTING SERVICE





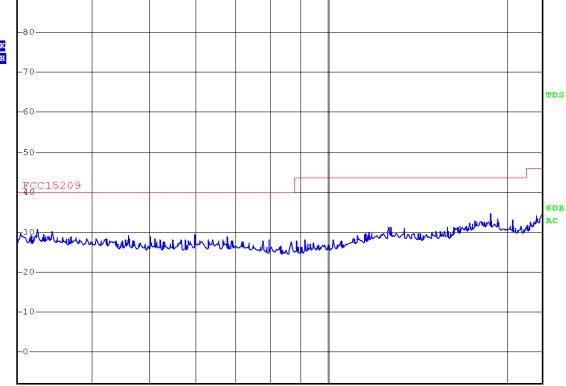
Channel:	49 (2443.6MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30-230MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	



RBW 120 kHz 100 µs TM

Att 10 dB PREAMP OFF dΒμV -90 100 MHz 1 PK Maxh



30 MHz 230 MHz

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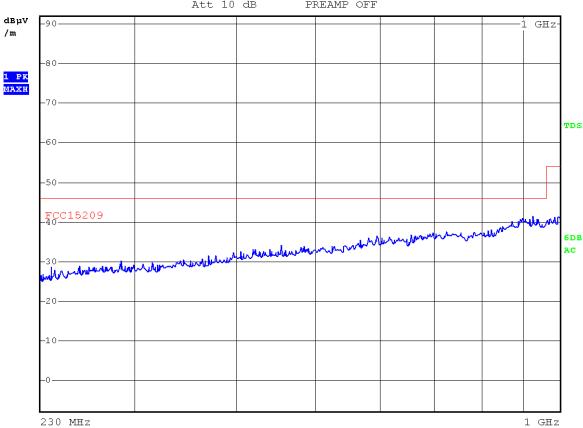
Channel:	49 (2443.6MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	230-1000MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	



RBW 120 kHz MT100 µs

Att 10 dB PREAMP OFF



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CENTRE OF TESTING SERVICE

Channel:	49 (2443.6MHz)	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	1G-26.5GHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T

Frequency	Result	[dBµV]	Limit	[dBµV]	Dlimit[[dBµV]
[MHz]	Average	Peak	Average	Peak	Average	Peak
1837.6	45.4	53.0	54	74	8.6	21.0
2443.6	53.9	64.4	94	114	40.1	49.6
2988.4	44.5	52.1	54	74	9.5	21.9
7271.2	47.0	56.5	54	74	7.0	17.5
14988.7	41.1	50.0	54	74	12.9	24.0
17187.4	41.6	52.0	54	74	12.4	22.0
25242.3	43.5	53.0	54	74	10.5	21.0

Note: 1. Emission level=Read level + Factor

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Report No.: CGZ3090903-02730-O(1) Page 27 of 45

^{2.} Factor=Antenna factor + Cable loss





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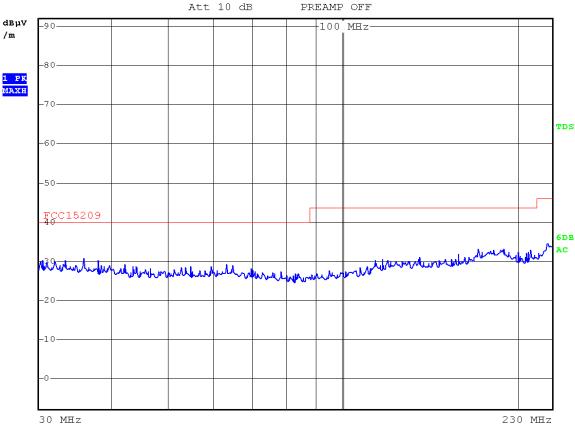
Channel:	49 (2443.6MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30-230MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	



RBW 120 kHz MT100 µs

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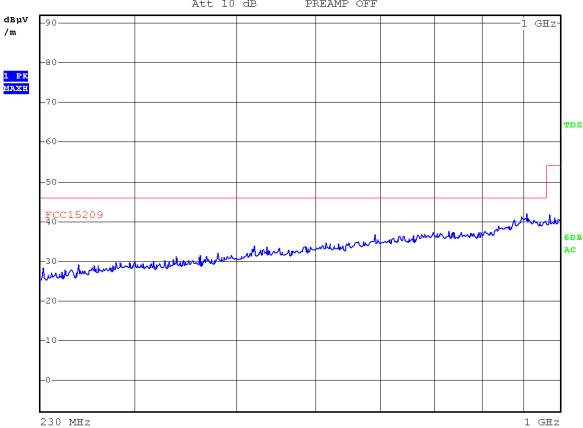
CENTRE OF TESTING SERVICE

Channel:	49 (2443.6MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	230-1000MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	

RBW 120 kHz MT100 µs

Att 10 dB PREAMP OFF



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CENTRE OF TESTING SERVICE

Channel:	49 (2443.6MHz)	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	1G-26.5GHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	

Frequency	Result [dBµV]	Limit [dBµV]		Dlim	nit[dBµV]
[MHz]	Average	Peak	Average	Peak	Average	Peak
1834.7	45.0	54.0	54	74	9.0	20.0
2443.6	54.0	64.0	94	114	40.0	50.0
2978.4	44.1	53.3	54	74	9.9	20.7
7287.7	47.0	56.5	54	74	7.0	27.5
14897.7	41.1	50.0	54	74	12.9	24.0
17187.4	41.5	52.0	54	74	12.5	22.0
25.2451	43.2	53.4	54	74	10.8	20.6

Note: 1. Emission level=Read level + Factor

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^{2.} Factor=Antenna factor + Cable loss





8 20 dB Bandwidth test

8.1.Test Equipment

Radiate	Radiated disturbance (electric field)						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2008/12		
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2008/12		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2008/12		

8.2.Test Information

EUT:	QClick
M/N:	QRF300, QRF3XX, QRF300-T
Test Date:	01 ~11 September 2009
Ambient Temperature:	24°C
Relative Humidity:	55%
Test standard:	FCC PART 15C: 15.249
Test mode:	Transmitting
Test Frequency:	Channel 0 (2424.0MHz) Channel 25 (2433.6MHz) Channel 49 (2443.6MHz)
Test By:	
Test by.	Roy

8.3.Test Results

Horizontal:

Channel	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
Channel 1	821		PASS
Channel 25	860		PASS
Channel 50	820		PASS

Vertical

Channel	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
Channel 1	831		PASS
Channel 25	860		PASS
Channel 50	820		PASS

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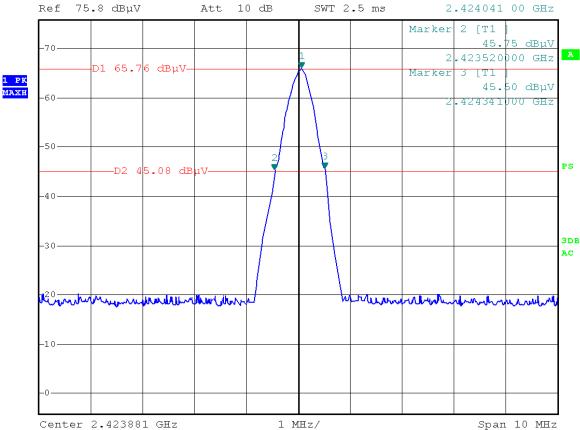
CENTRE OF TESTING SERVICE

Channel:	0	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Test Frequency:	2424.0MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	







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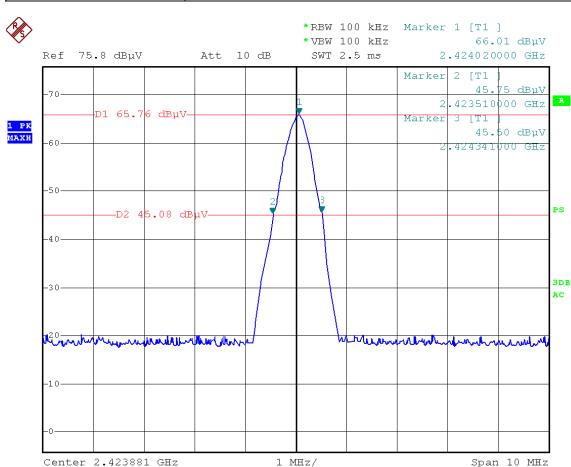






Channel:	0	Result:	■ - passed
Test point:	Vertical		□ - not passed
Test Frequency:	2424.0MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	



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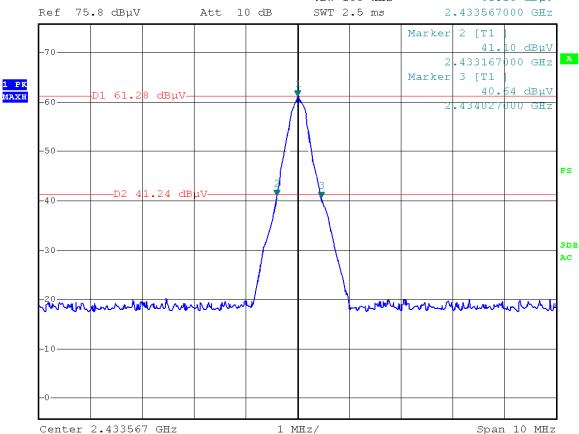
CENTRE OF TESTING SERVICE

Channel:	25	Result	 - passed
Test point:	Horizontal		 □ - not passed
Test Frequency:	2433.6MHz		

EUT	QClick	
Firm Name	QOMO HiteVision, LLC.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Operator	Roy	
MODEL NO	QRF300, QRF3XX, QRF300-T	







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CENTRE OF TESTING SERVICE



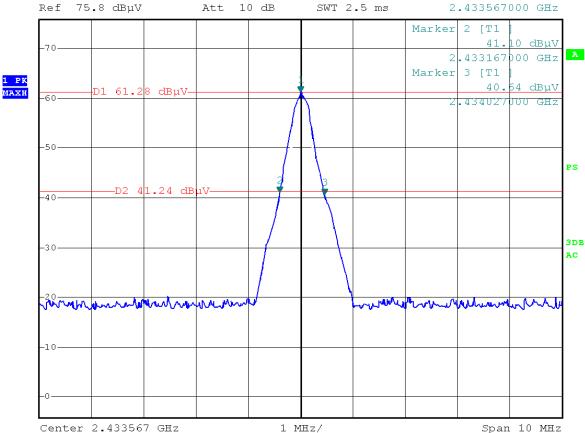


Channel:	25	Res	sult:	■ - passed
Test point:	Vertical			□ - not passed
Test Frequency:	2433.6MHz			

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T







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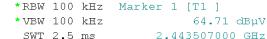


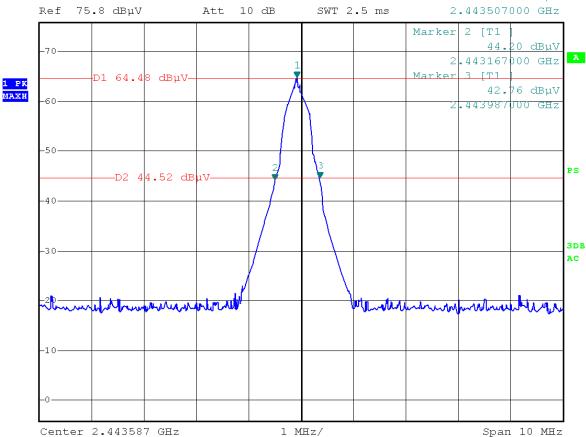
CENTRE OF TESTING SERVICE

Channel:	49	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Test Frequency:	2443.6MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T







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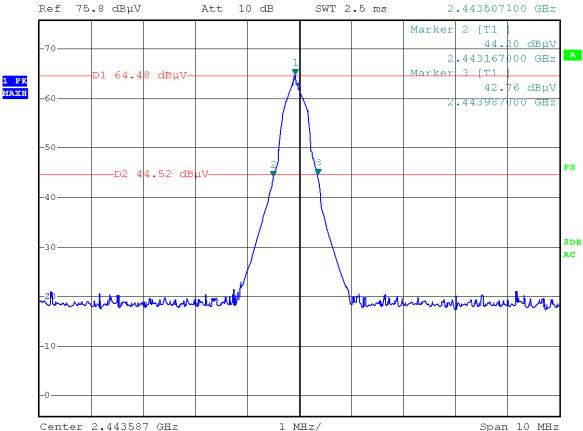
CENTRE OF TESTING SERVICE

Channel:	49	Result:	■ - passed
Test point:	Vertical		□ - not passed
Test Frequency:	2443.6MHz		= passea

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
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9 Band Edge Compliance Measurement

9.1.Test Equipment

Radiate	Radiated disturbance (electric field)				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2008/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2008/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2008/12

9.2.Test Information

EUT:	QClick
M/N:	QRF300, QRF3XX, QRF300-T
Test Date:	01 ~11 September 2009
Ambient Temperature:	24 ℃
Relative Humidity:	55%
Test standard:	FCC PART 15C: 15.249
Test mode:	Transmitting
Test Frequency:	Channel 0 (2424.0MHz) Channel 49 (2443.6MHz)
Test By:	Roy

9.3.Test Results

PASSED.

The testing data was attached in the next pages.

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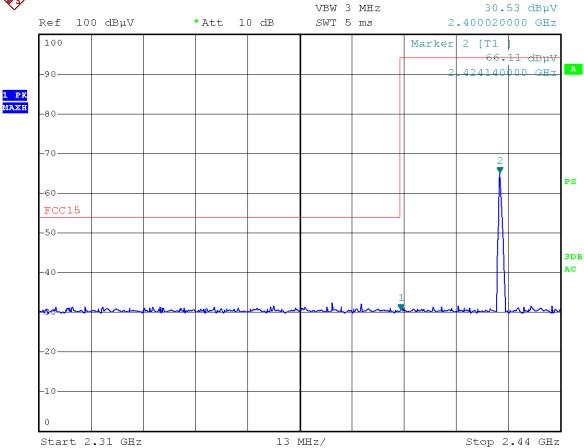
Channel:	0	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Test Frequency:	2424.0MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T

*RBW 1 MHz

Marker 1 [T1]





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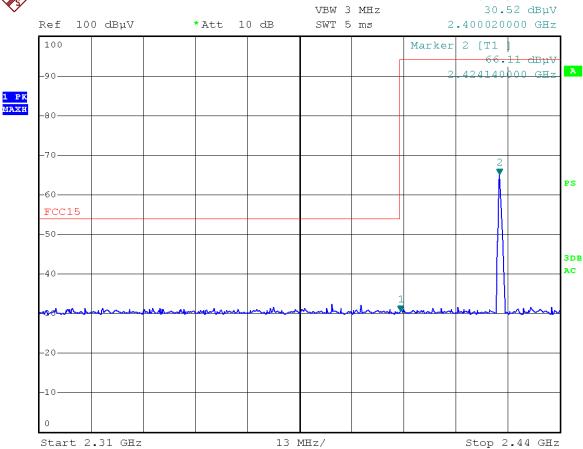
Channel:	0	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Test Frequency:	2424.0MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T

*RBW 1 MHz

Marker 1 [T1]





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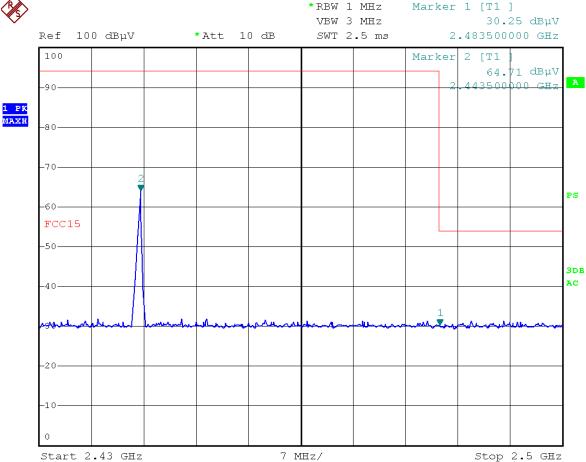




Channel:	49	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Test Frequency:	2443.6MHz		

EUT	QClick
Firm Name	QOMO HiteVision, LLC.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Roy
MODEL NO	QRF300, QRF3XX, QRF300-T





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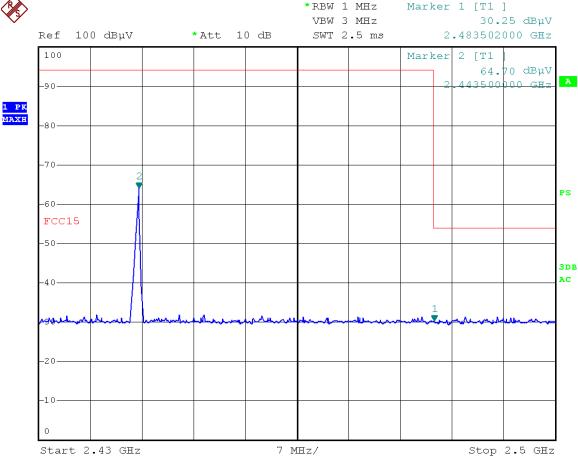


CENTRE OF TESTING SERVICE

Channel:	49	Result:	■ - passed
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B	
V	% /



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10 Deviation to test specifications

[NONE]

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11 TEST PHOTOGRAPHS

11.1.Photos of Radiated Emission Test (In Anechoic Chamber)

30~230MHz (X position)



230~1000MHz (X position)



above 1000MHz (X position)



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11.2. 20 dB Bandwidth Test

X position (X position)



11.3. Band Edge Compliance Test

X position



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