

Prüfbericht-Nr.: Test Report No.:

50046621 001

Auftrags-Nr.: Order No.:

154169393

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Kunden-Referenz-Nr.:

52158935

Auftragsdatum:

Order date:

2016.05.23

Client Reference No.:

GENERAL TOOLS & INSTRUMENTS COMPANY LLC

75 Seaview Drive Secaucus New Jersey United States 07094

Prüfgegenstand:

Auftraggeber:

ToolSmart Illuminated Inspection Camera

Test item:

Client:

TS07 Bezeichnung / Typ-Nr.:

Identification / Type No.: FCC ID: YRKTS07

Auftrags-Inhalt:

Complete test

Order content:

FCC CFR47 Part 15, Subpart C Section 15.247

Prüfgrundlage: Test specification:

ANSI C63.10: 2013

KDB 558074 D01 DTS Meas Guidance v03r05

Wareneingangsdatum:

2016.05.13

Date of receipt:

Prüfmuster-Nr.:

A000359887-003

Test sample No.:

2016.05.24 to 2016.07.18 Prüfzeitraum:

Testing period:

Ort der Prüfung:

MRT Technology(Suzhou) Co., Ltd.

Place of testing:

TÜV Rheinland (Shanghai)

Prüflaboratorium: Testing laboratory:

geprüft von / tested by:

Co., Ltd.

Pass

Prüfergebnis*:

Test result*:

2016.07.19

Datum

Date

kontrolliert von I reviewed by:

Elliot Zhang / Senior Project Engineer

Name / Position

Name / Stellung

Unterschrift Signature

2016.07.19

Shi Li / Section Manager

Datum Date

Name / Stellung Name / Position

Unterschrift Signature

Sonstiges I Other

Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:

Prüfmuster vollständig und unbeschädigt Test item complete and undamaged

* Legende:

1 = sehr gut

2 = gut

3 = befriedigend

4 = ausreichend

5 = mangelhaft

P(ass) = entspricht o.g. Prüfgrundlage(n)

F(ail) = entspricht nicht o.g. Prüfgrundlage(n)

N/A = nicht anwendbar 4 = sufficient

N/T = nicht getestet

Legend:

2 = good

3 = satisfactory

5 = poor N/T = not tested

1 = very good

P(ass) = passed a.m. test specification(s)

F(ail) = failed a.m. test specification(s)

N/A = not applicable

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.



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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 6DB BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS

RESULT: Pass

5.1.5 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.6 RADIATED SPURIOUS EMISSION

RESULT: Pass



Products

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1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

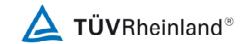
MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.



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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	2016.11.03
Two-Line V-Network	R&S	ENV216	101683	2016.11.03
Two-Line V-Network	R&S	ENV216	101684	2016.11.03
Temperature/Humidity Meter	Yuhuaze	N/A	N/A	2016.12.20

Radiated Emission

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MY45300136	2016.12.08
EMI Test Receiver	R&S	ESR7	101209	2016.11.03
Preamplifier	Schwarzbeck	BBV 9721	9721-008	2017.04.16
Preamplifier	Agilent	83017A	MY53270040	2017.03.29
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	2016.12.14
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	2016.11.07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	2016.11.07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	2017.01.04
Digital Thermometer & Hygrometer	Minggao	N/A	N/A	2016.11.30

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	2017.05.08
USB Wideband Power Sensor	Boonton	55006	8911	2017.05.08
Temperature/Humidity Meter	Yuhuaze	N/A	N/A	2016.12.20

Software	Version	Function
e3	V8.3.5	EMI Test Software



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2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB



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3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a ToolSmart Illuminated Inspection Camera which use the technic of IEEE 802.11b/g/n.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Kind of Equipment : ToolSmart Illuminated Inspection Camera

Type Designation : TS07

Operating Frequency band : 802.11b/g/n-HT20: 2412 ~ 2462MHz

802.11n-HT40: 2422 ~2462MHz

Channel Number : 802.11b/g/n-HT20: 11

802.11n-HT40: 9

Modulation Type : 802.11b: DSSS

802.11g/n: OFDM

Operation Voltage : DC 3.7V

Antenna 0 : Copper Tube Antenna, Max gain 3dBi Antenna 1 : Copper Tube Antenna, Max gain 3dBi

Directional gain : 6.01dBi

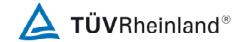
Note: According to the User Manual, the device can't operate during charging.

Table 3: Carrier Frequency of IEEE 802.11b/g/n-HT20

Operating Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
2412 – 2462 MHz	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

Table 4: Carrier Frequency of IEEE 802.11n-HT40

Operating Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	3	2422 MHz	7	2442 MHz
2422 – 2452 MHz	4	2427 MHz	8	2447 MHz
2422 – 2452 IVIHZ	5	2432 MHz	9	2452 MHz
	6	2437 MHz		



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3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low Channel
 - 2. Middle Channel
 - 3. High Channel
- B. Receiving
- C. Standby
- D. Off

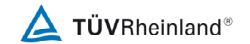
3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document

- Circuit Diagram
- Instruction Manual
- Rating Label



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4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.



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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

According to the manufacturer declared, the EUT has two same Copper Tube Antennas, the directional gain of antenna is 3dBi and the antenna is designed with unique coupling to the intentional radiator. Therefore the EUT is considered sufficient to comply with the provision.

Table 5: Antenna Requirement

FCC 15.203 - Antenna Requirement 1

Requirement: No antenna other than that furnished by the responsible party shall be used with

the device.

Use of a permanently attached antenna, or

Use an antenna that uses a unique coupling to the intentional radiator.

Results: Antenna type: Copper Tube Antenna

Antenna connect type: I-PEX

Verdict: PASS

FCC 15.204 - Antenna Requirement 2

Requirement: An intentional radiator may be operated only with the antenna with which it is

authorized. If an antenna is marketed with the intentional radiator, it shall be of a

type which is authorized with the intentional radiator.

Results: Only one type antenna can be used

Verdict: PASS



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5.1.2 Peak Output Power

RESULT: Pass

: 2016.07.14 Date of testing

: 2016.07.14 : FCC Part 15.247(b)(3) : ANSI C63.10: 2013 Clause 9.1 of KDB 558 Test standard Test procedure

Clause 9.1 of KDB 558074 D01 v03r05

: FCC Part 15.247(b)(3) : Shielded room Limit

Kind of test site

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1; A.2; A.3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 6: Peak Output Power

	_	Maximum	Maximum				
Mode	Freq.	Conducted (peak)	Conducted (average)	Limit			
I IVIOGO	[MHz]	Output Power	Output Power	[dBm]			
		[dBm]	[dBm]				
Ant 0							
	2412	13.27	9.63	30			
11b	2437	13.04	9.40	30			
	2462	13.04	9.40	30			
	2412	18.10	9.38	30			
11g	2437	18.24	9.57	30			
	2462	18.20	9.44	30			
	2412	18.11	9.27	30			
11n-HT20	2437	18.02	9.42	30			
	2462	18.21	9.33	30			
	2422	17.83	8.55	30			
11n-HT40	2437	18.33	9.45	30			
	2452	17.82	8.86	30			
		Ant 1					
	2412	13.18	9.45	30			
11b	2437	13.17	9.43	30			
	2462	13.19	9.44	30			
	2412	18.09	9.36	30			
11g	2437	18.03	9.58	30			
Ĭ	2462	18.09	9.45	30			
44 - LITOO	2412	17.88	9.23	30			
11n-HT20	2437	18.22	9.51	30			



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	2462	18.12	9.33	30
	2422	17.76	8.76	30
11n-HT40	2437	18.10	9.36	30
	2452	18.03	9.29	30

Mode	Freq. [MHz]	Maximum Conducted (peak) Output Power [dBm]		Maximum Conducted (average) Output Power [dBm]		Limit [dBm]		
		Ant 0	Ant 1	Ant 0+1	Ant 0	Ant 1	Ant 0+1	
	2412	15.76	15.84	18.81	6.30	6.57	9.45	30
11n-HT20	2437	16.03	15.96	19.01	6.47	6.50	9.50	30
	2462	15.90	15.80	18.86	6.49	6.43	9.47	30
	2422	17.04	16.92	19.99	6.25	6.80	9.54	30
11n-HT40	2437	17.00	16.54	19.79	6.23	6.66	9.46	30
	2452	17.18	16.64	19.93	6.33	6.70	9.53	30

Note: The output power at each antenna will automatically reduce while using the dual antennas simultaneity.



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5.1.3 6dB Bandwidth

RESULT: Pass

: 2016.07.14 Date of testing

: 2016.07.14 : FCC Part 15.247(a)(2) : ANSI C63.10: 2013 Date of testing
Test standard
Test procedure

Clause 8 of KDB 558074 D01 v03r05

Limit : FCC Part 15.247(a)(2)

: Shielded room Kind of test site

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1; A.2; A.3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 7: 6dB Bandwidth

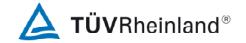
Mode	Frequency 6dB Bandwidht [MHz] [MHz]		Limit [kHz]
<u> </u>		Ant 0	<u> </u>
	2412	12.327	500
11b	2437	12.306	500
	2462	12.307	500
	2412	16.508	500
11g	2437	16.517	500
	2462	16.510	500
	2412	17.581	500
11n-HT20	2437	17.583	500
	2462	17.581	500
	2422	36.232	500
11n-HT40	2437	36.222	500
	2452	36.235	500
_	Ä	Ant 1	
	2412	12.260	500
11b	2437	12.250	500
	2462	12.241	500
	2412	16.504	500
11g	2437	16.509	500
	2462	16.520	500
	2412	17.581	500
11n-HT20	2437	17.584	500
	2462	17.582	500
	2422	36.223	500
11n-HT40	2437	36.230	500
	2452	36.220	500



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Ant 0+1			
11n-HT20	2412	17.570	500
	2437	17.575	500
	2462	17.579	500
11n-HT40	2422	36.211	500
	2437	36.216	500
	2452	36.225	500



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Figure 1: 6dB Bandwidth, Ant 0, 11b, 2412MHz



Figure 2: 6dB Bandwidth, Ant 0, 11b, 2437MHz





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Figure 3: 6dB Bandwidth, Ant 0, 11b, 2462MHz



Figure 4: 6dB Bandwidth, Ant 0, 11g, 2412MHz





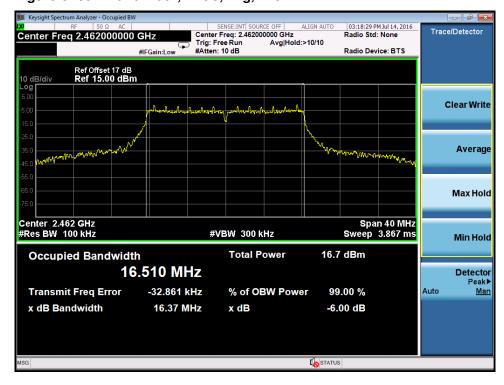
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Figure 5: 6dB Bandwidth, Ant 0, 11g, 2437MHz



Figure 6: 6dB Bandwidth, Ant 0, 11g, 2462MHz





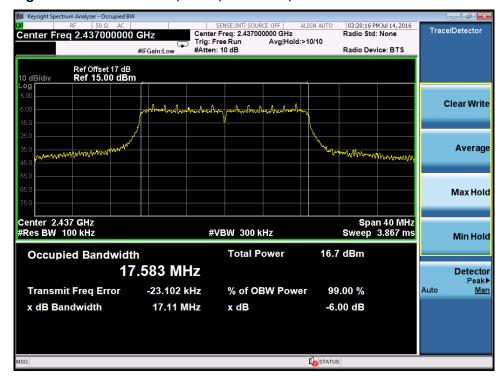
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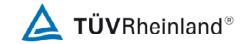
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Figure 7: 6dB Bandwidth, Ant 0, 11n-HT20, 2412MHz



Figure 8: 6dB Bandwidth, Ant 0, 11n-HT20, 2437MHz





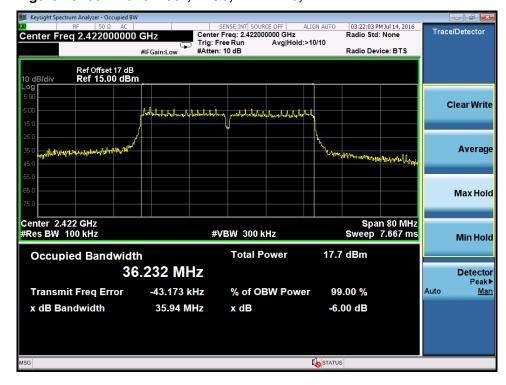
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Figure 9: 6dB Bandwidth, Ant 0, 11n-HT20, 2462MHz



Figure 10: 6dB Bandwidth, Ant 0, 11n-HT40, 2422MHz





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Figure 11: 6dB Bandwidth, Ant 0, 11n-HT40, 2437MHz

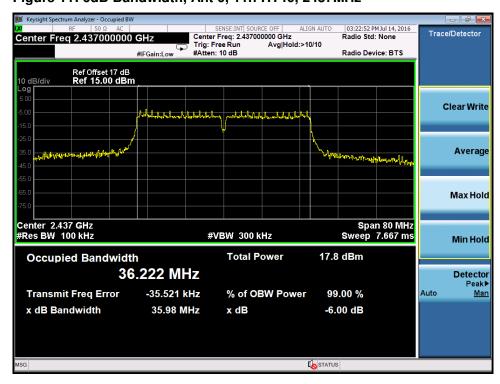
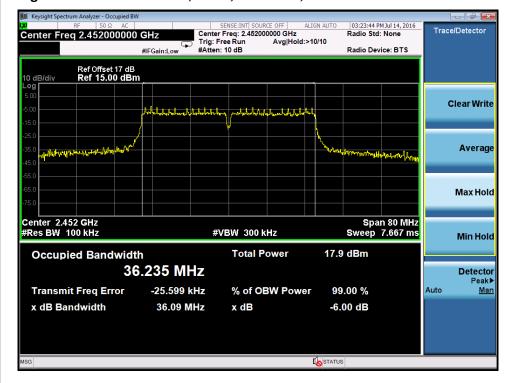
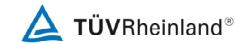


Figure 12: 6dB Bandwidth, Ant 0, 11n-HT40, 2452MHz





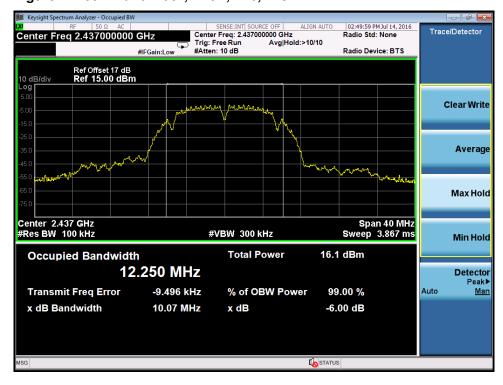
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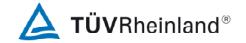
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Figure 13: 6dB Bandwidth, Ant 1, 11b, 2412MHz



Figure 14: 6dB Bandwidth, Ant 1, 11b, 2437MHz





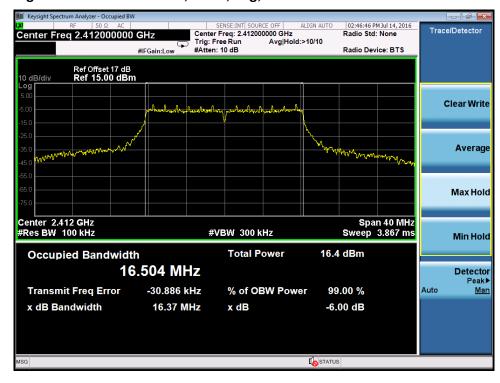
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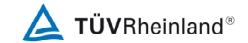
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Figure 15: 6dB Bandwidth, Ant 1, 11b, 2462MHz



Figure 16: 6dB Bandwidth, Ant 1, 11g, 2412MHz





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Figure 17: 6dB Bandwidth, Ant 1, 11g, 2437MHz

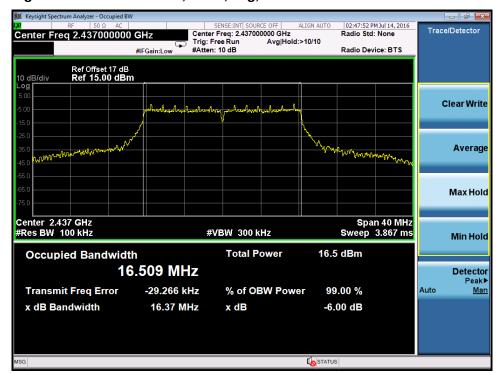
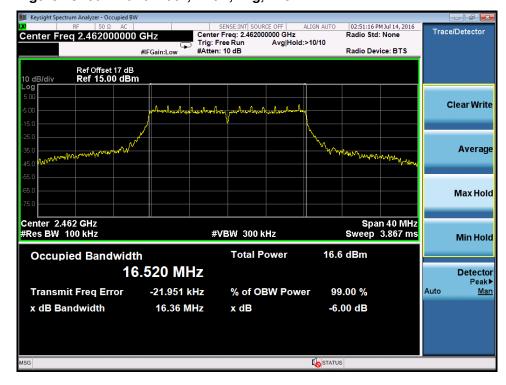
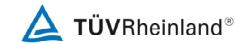


Figure 18: 6dB Bandwidth, Ant 1, 11g, 2462MHz





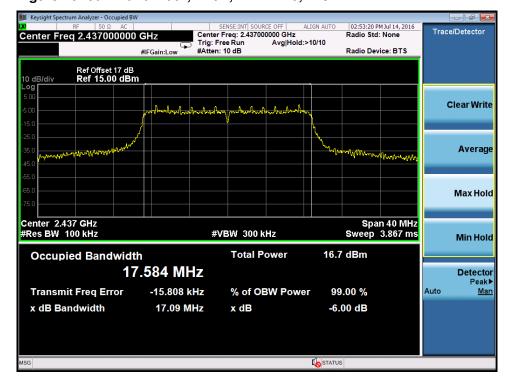
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Figure 19: 6dB Bandwidth, Ant 1, 11n-HT20, 2412MHz



Figure 20: 6dB Bandwidth, Ant 1, 11n-HT20, 2437MHz





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Figure 21: 6dB Bandwidth, Ant 1, 11n-HT20, 2462MHz

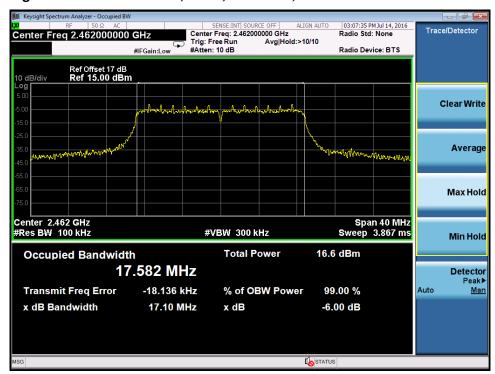
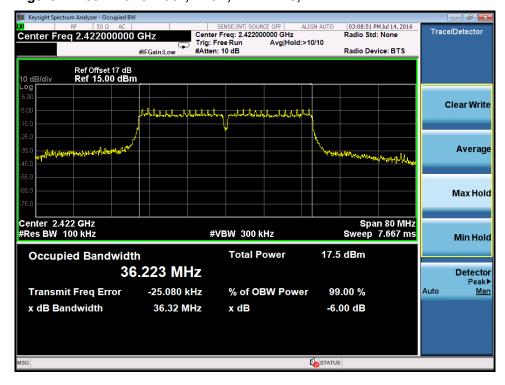


Figure 22: 6dB Bandwidth, Ant 1, 11n-HT40, 2422MHz





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Figure 23: 6dB Bandwidth, Ant 1, 11n-HT40, 2437MHz

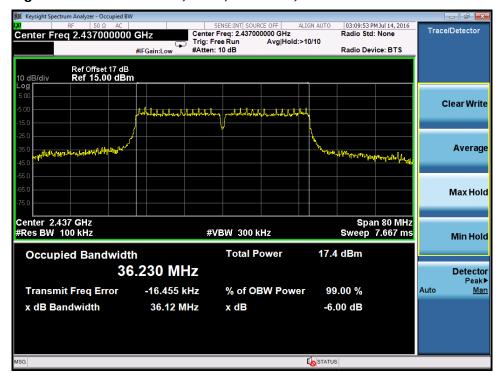
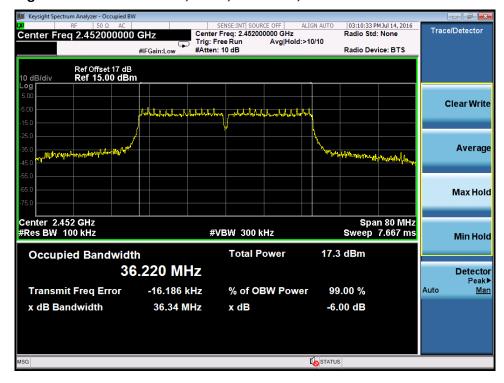


Figure 24: 6dB Bandwidth, Ant 1, 11n-HT40, 2452MHz





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Figure 25: 6dB Bandwidth, Ant 0+1, 11n-HT20, 2412MHz

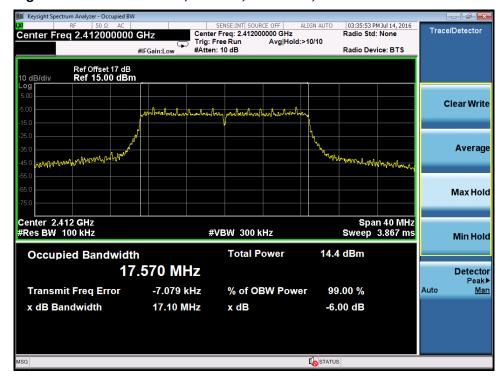


Figure 26: 6dB Bandwidth, Ant 0+1, 11n-HT20, 2437MHz





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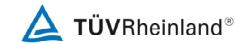
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Figure 27: 6dB Bandwidth, Ant 0+1, 11n-HT20, 2462MHz



Figure 28: 6dB Bandwidth, Ant 0+1, 11n-HT40, 2422MHz





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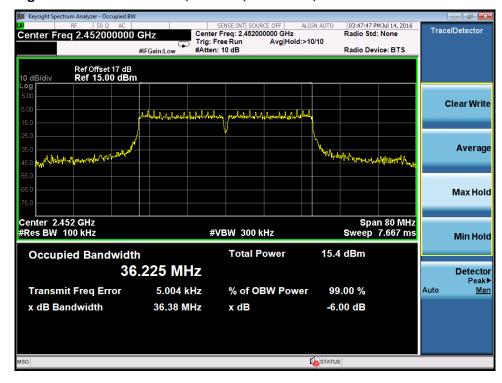
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Figure 29: 6dB Bandwidth, Ant 0+1, 11n-HT40, 2437MHz



Figure 30: 6dB Bandwidth, Ant 0+1, 11n-HT40, 2452MHz





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5.1.4 Conducted Spurious Emissions

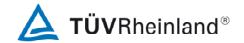
RESULT: Pass

: 2016.07.15

Date of testing : 2016.07.15
Test standard : FCC Part 15.247(d)
Test procedure : ANSI C63.10: 2013
Limit : FCC Part 15.247(d)
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1; A.2; A.3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa



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Figure 31: Conducted Spurious Emission, Ant 0, 11b, 2412MHz

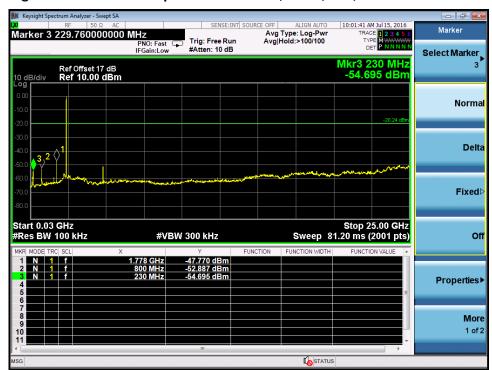
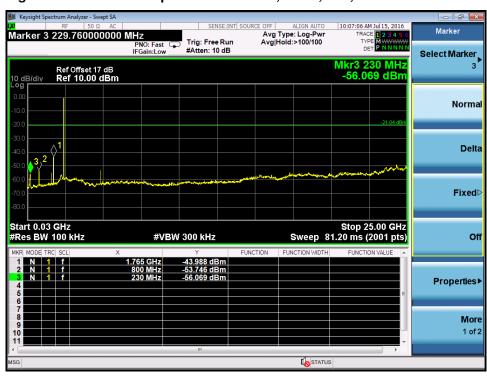


Figure 32: Conducted Spurious Emission, Ant 0, 11b, 2437MHz





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Figure 33: Conducted Spurious Emission, Ant 0, 11b, 2462MHz

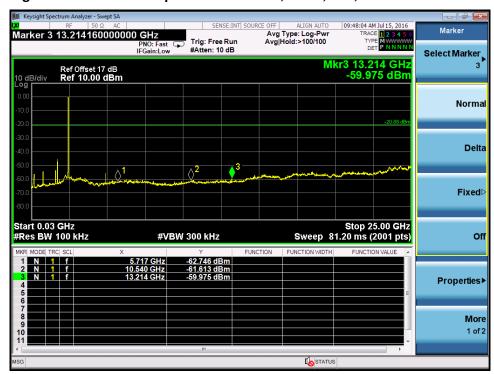
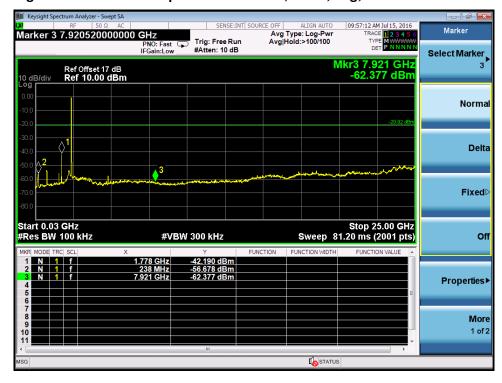


Figure 34: Conducted Spurious Emission, Ant 0, 11g, 2412MHz





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Figure 35: Conducted Spurious Emission, Ant 0, 11g, 2437MHz

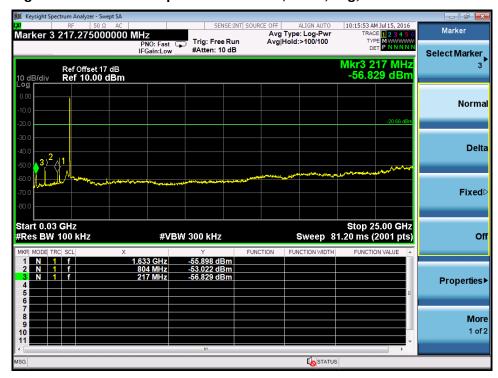


Figure 36: Conducted Spurious Emission, Ant 0, 11g, 2462MHz





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Figure 37: Conducted Spurious Emission, Ant 0, 11n-HT20, 2412MHz

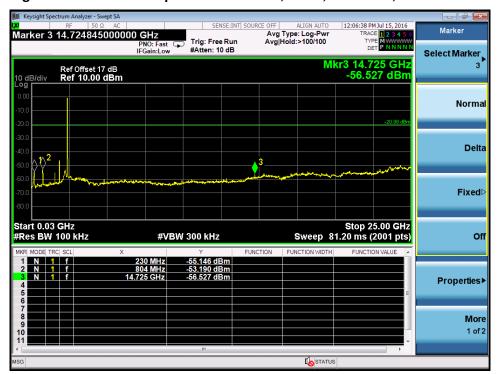
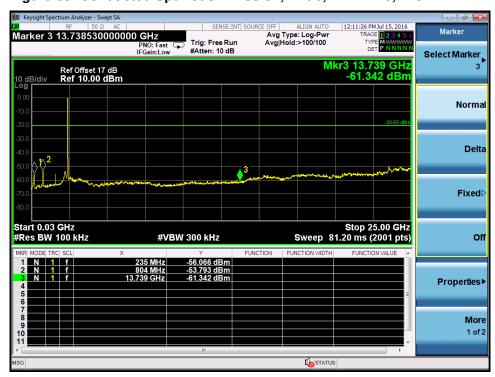


Figure 38: Conducted Spurious Emission, Ant 0, 11n-HT20, 2437MHz





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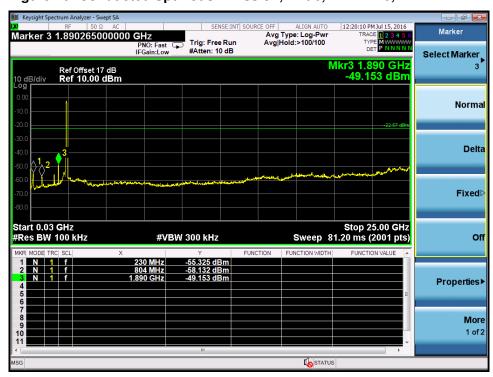
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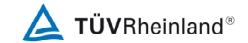
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Figure 39: Conducted Spurious Emission, Ant 0, 11n-HT20, 2462MHz



Figure 40: Conducted Spurious Emission, Ant 0, 11n-HT40, 2422MHz





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Figure 41: Conducted Spurious Emission, Ant 0, 11n-HT40, 2437MHz

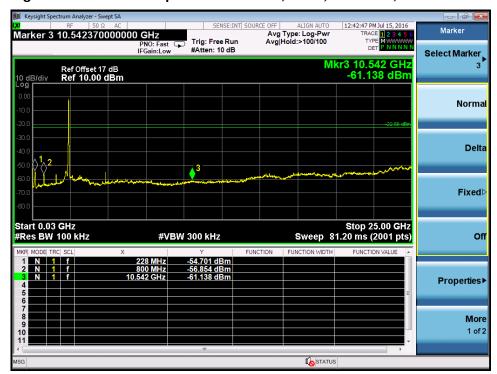
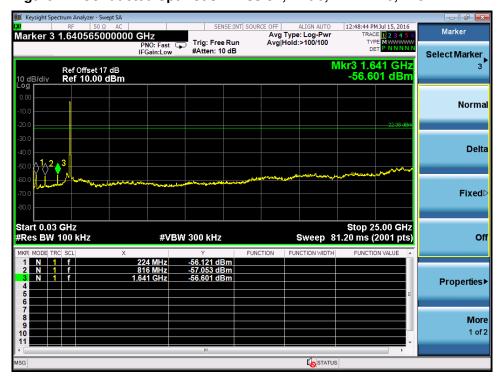
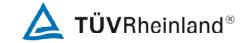


Figure 42: Conducted Spurious Emission, Ant 0, 11n-HT40, 2452MHz





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Figure 43: Conducted Spurious Emission, Ant 1, 11b, 2412MHz



Figure 44: Conducted Spurious Emission, Ant 1, 11b, 2437MHz





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Figure 45: Conducted Spurious Emission, Ant 1, 11b, 2462MHz

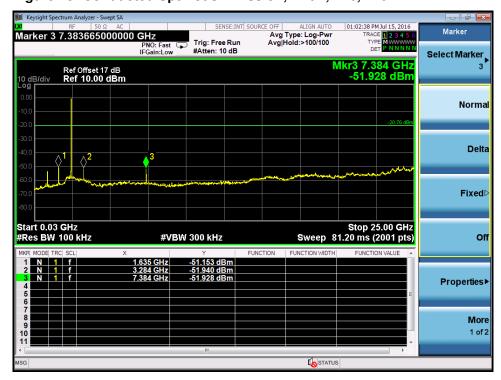


Figure 46: Conducted Spurious Emission, Ant 1, 11g, 2412MHz





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Figure 47: Conducted Spurious Emission, Ant 1, 11g, 2437MHz

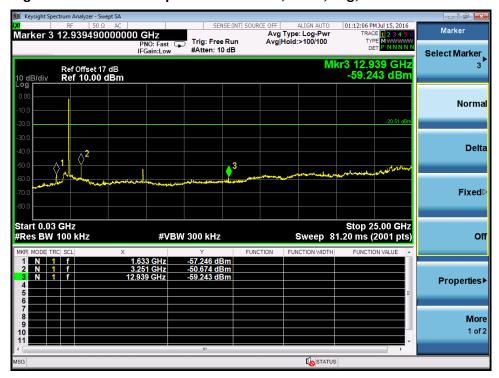


Figure 48: Conducted Spurious Emission, Ant 1, 11g, 2462MHz





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Figure 49: Conducted Spurious Emission, Ant 1, 11n-HT20, 2412MHz

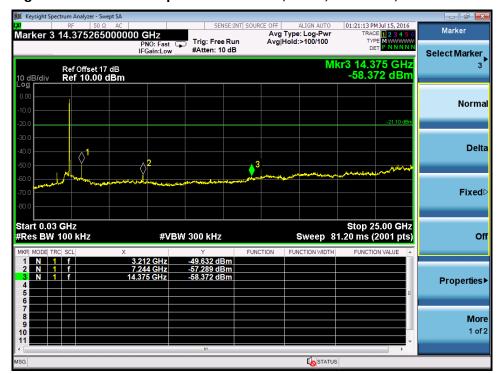
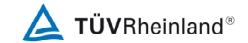


Figure 50: Conducted Spurious Emission, Ant 1, 11n-HT20, 2437MHz





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Figure 51: Conducted Spurious Emission, Ant 1, 11n-HT20, 2462MHz



Figure 52: Conducted Spurious Emission, Ant 1, 11n-HT40, 2422MHz





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Figure 53: Conducted Spurious Emission, Ant 1, 11n-HT40, 2437MHz



Figure 54: Conducted Spurious Emission, Ant 1, 11n-HT40, 2452MHz





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Figure 55: Conducted Spurious Emission, Ant 0+1, 11n-HT20, 2412MHz

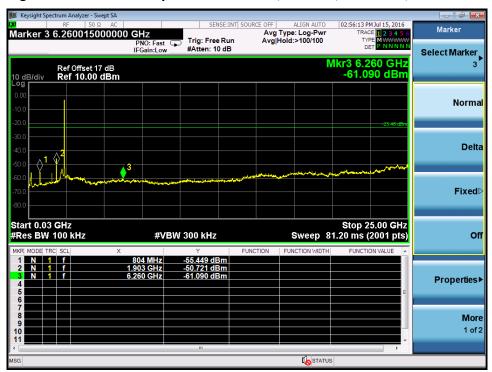
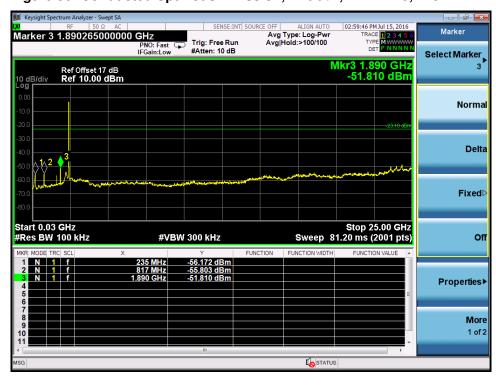


Figure 56: Conducted Spurious Emission, Ant 0+1, 11n-HT20, 2437MHz





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Figure 57: Conducted Spurious Emission, Ant 0+1, 11n-HT20, 2462MHz

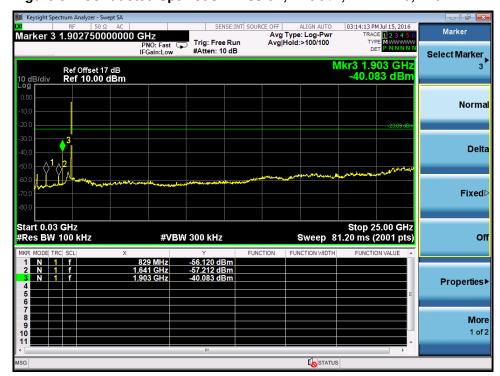


Figure 58: Conducted Spurious Emission, Ant 0+1, 11n-HT40, 2422MHz

