

FCC Part 15C Measurement and Test Report

For

TOPICON HK LTD

Room 2113-2114, Tower C, Huangdu Plaza, Yitian Road, Futian District, Shenzhen, China

FCC ID: 2AHAF-MDT7P

FCC Rule(s): FCC Part 15C

Product Description: GPS product

Tested Model: MDT7P

Report No.: STR16108158I-3

Tested Date: 2016-10-28 to 2016-11-16

Issued Date: 2016-11-17

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.



TABLE OF CONTENTS

1. GENERAL INFORMATION	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
1.4 Test Facility	
1.5 EUT SETUP AND TEST MODE	
1.6 Measurement Uncertainty	
2. SUMMARY OF TEST RESULTS	
3. RF EXPOSURE	
3.1 STANDARD APPLICABLE	
3.2 TEST RESULT.	
4. ANTENNA REQUIREMENT	9
4.1 Standard Applicable	
4.2 Evaluation Information	
5. POWER SPECTRAL DENSITY	
5.1 STANDARD APPLICABLE	
5.2 TEST PROCEDURE	
5.4 SUMMARY OF TEST RESULTS/PLOTS	
6. 6DB BANDWIDTH	17
6.1 STANDARD APPLICABLE	17
6.2 Test Procedure	
6.3 ENVIRONMENTAL CONDITIONS	
7. RF OUTPUT POWER	
7.1 STANDARD APPLICABLE	
7.2 TEST PROCEDURE	
7.3 ENVIRONMENTAL CONDITIONS	
7.4 SUMMARY OF TEST RESULTS/PLOTS	
8. FIELD STRENGTH OF SPURIOUS EMISSIONS	
8.1 Standard Applicable	
8.3 CORRECTED AMPLITUDE & MARGIN CALCULATION	
8.4 ENVIRONMENTAL CONDITIONS	31
8.5 SUMMARY OF TEST RESULTS/PLOTS	
9. OUT OF BAND EMISSIONS	
9.1 STANDARD APPLICABLE	
9.2 TEST PROCEDURE	
9.4 Summary of Test Results/Plots	
10. CONDUCTED EMISSIONS	60
10.1 Test Procedure	
10.2 BASIC TEST SETUP BLOCK DIAGRAM	
10.3 Environmental Conditions	
10.5 SUMMARY OF TEST RESULTS/PLOTS	
10 6 CONDUCTED EMISSIONS TEST DATA	61





1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: TOPICON HK LTD

Address of applicant: Room 2113-2114, Tower C, Huangdu Plaza, Yitian

Road, Futian District, Shenzhen, China

Manufacturer: TOPICON HK LTD

Address of manufacturer: Room 2113-2114, Tower C, Huangdu Plaza, Yitian

Road, Futian District, Shenzhen, China

General Description of EUT	
Product Name:	GPS product
Trade Name:	CalAmp
Model No.:	MDT7P
Adding Madal/s).	MDT7PXXX(XXX=0-100), MDT720, MDT730,
Adding Model(s):	MDT7P-D, MDT7P2, MDT7P3
Software Version:	Calamp_3.3.4
Hardware Version:	MDT720_V70
Rated Voltage:	DC 3.7V
Bower Adapter Medal:	K-E30502000E1
Power Adapter Model:	I/P: AC 120V/60Hz; O/P: DC 5V/2A

Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model MDT7P, but the circuit and the electronic construction do not change, declared by the manufacturer.

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz
RF Output Power:	15.32 dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	3 dBi
Lowest Internal Frequency	32.768KHz

REPORT NO.: STR16108158I-3 PAGE 3 OF 63 FCC PART 15.247



1.2 Test Standards

The following report is prepared on behalf of the TOPICON HK LTD in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 558074 D01 v03r05 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC – Registration No.: 934118

Shenzhen SEM.Test Technology 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 and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM. Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062

Shenzhen SEM. Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

REPORT NO.: STR16108158I-3 PAGE 4 OF 63 FCC PART 15.247

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	
TM1	802.11b	2412MHz, 2437MHz, 2462MHz	
TM2	802.11g	2412MHz, 2437MHz, 2462MHz	
TM3	802.11n-HT20	2412MHz, 2437MHz, 2462MHz	

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	0.8	Shielded	With Ferrite

Special Cable List and Details				
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite				
/	/	/	/	

Auxiliary Equipment List and Details				
Description Manufacturer Model Serial Number				
/	/	/	/	

1.6 Measurement Uncertainty

Measurement uncertainty				
Parameter	Conditions	Uncertainty		
RF Output Power	Conducted	±0.42dB		
Occupied Bandwidth	Conducted	±1.5%		
Power Spectral Density	Conducted	±1.8dB		
Conducted Emissions	Conducted	±2.88dB		
Transmitter Spurious Emissions	Radiated	±5.1dB		

REPORT NO.: STR16108158I-3 PAGE 5 OF 63 FCC PART 15.247



1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2016-06-04	2017-06-03
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2016-06-04	2017-06-03
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2016-06-04	2017-06-03
Amplifier	Agilent	8447F	3113A06717	2016-06-04	2017-06-03
Amplifier	C&D	PAP-1G18	2002	2016-06-04	2017-06-03
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2016-06-04	2017-06-03
Horn Antenna	ETS	3117	00086197	2016-06-04	2017-06-03
Horn Antenna	ETS	3116B	00088203	2016-06-04	2017-06-03
Loop Antenna	Schwarz beck	FMZB 1516	9773	2016-06-04	2017-06-03
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2016-06-04	2017-06-03
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2016-06-04	2017-06-03
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2016-06-04	2017-06-03



2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	6 dB Bandwidth	Compliant
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant

Due to the RF module is the same as the original FCC ID, so the test data of Power Spectral Density, 6dB Bandwidth and RF Output Power are copied from the original report, all of the others items are retest.



3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.



4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.

5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Procedure

According to the KDB 558074 D01 v03r05, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW ≥ 3 x RBW.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 x \text{ span/RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

5.3 Environmental Conditions

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

REPORT NO.: STR16108158I-3 PAGE 10 OF 63 FCC PART 15.247





5.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	-15.233	8
802.11b	2437	-14.561	8
	2462	-14.718	8
802.11g	2412	-17.748	8
	2437	-17.167	8
	2462	-17.276	8
	2412	-19.198	8
802.11n HT20	2437	-18.984	8
	2462	-19.355	8

Please refer to the following test plots:



802.11b-Low Channel



802.11b-Middle Channel

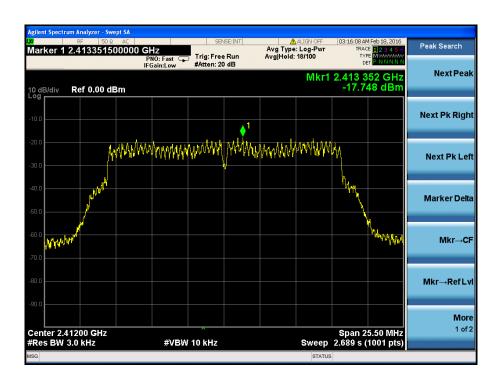




802.11b-High Channel



802.11g-Low Channel

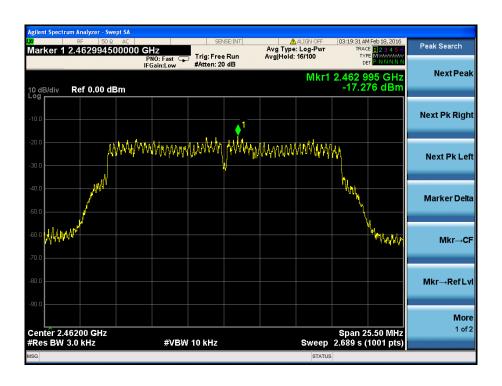




802.11g-Middle Channel

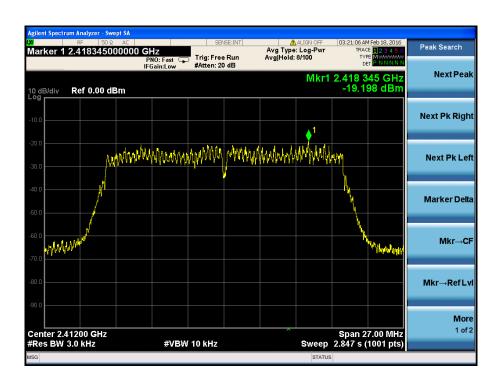


802.11g-High Channel

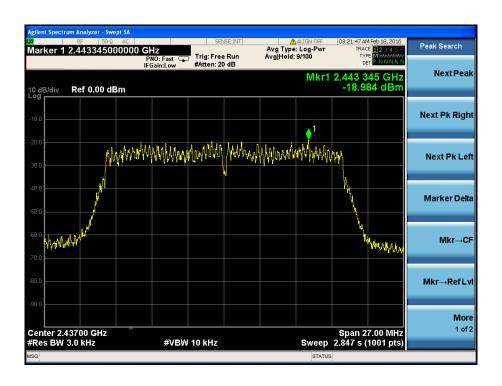




802.11n-HT20-Low Channel

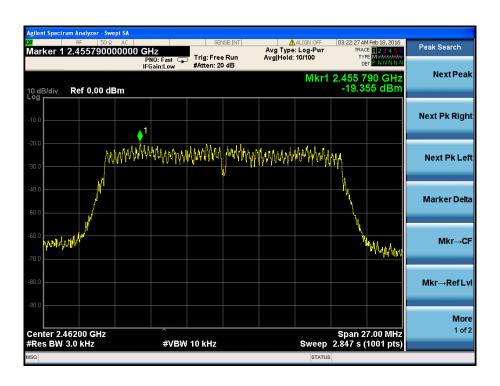


802.11n-HT20-Middle Channel





802.11n-HT20-High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Environmental Conditions

Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

Test Mode	Test Channel	6 dB Bandwidth	99% Bandwidth	Limit
lest wide	MHz	kHz	kHz	kHz
	2412	9124	13816	≥500
802.11b	2437	8450	13803	≥500
	2462	9968	13795	≥500
	2412	16460	16427	≥500
802.11g	2437	16440	16424	≥500
	2462	16430	16413	≥500
	2412	17740	17675	≥500
802.11n-HT20	2437	17720	17671	≥500
	2462	17720	17675	≥500

Please refer to the following test plots:

REPORT NO.: STR16108158I-3 PAGE 17 OF 63 FCC PART 15.247



802.11b-Low Channel



802.11b-Middle Channel





802.11b-High Channel



802.11g-Low Channel





802.11g-Middle Channel



802.11g-High Channel





802.11n-HT20-Low Channel

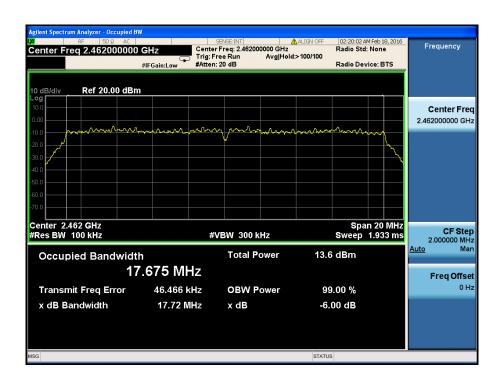


802.11n-HT20-Middle Channel





802.11n-HT20-High Channel



7. RF Output Power

7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

7.2 Test Procedure

According to the KDB-558074 D01 v03r05, 9.2.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times RBW$.
- d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \ge 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

7.3 Environmental Conditions

Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

REPORT NO.: STR16108158I-3 PAGE 23 OF 63 FCC PART 15.247



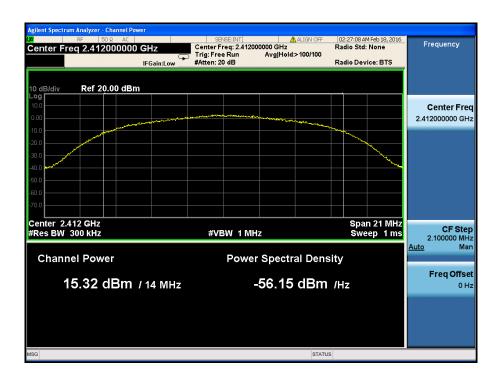
7.4 Summary of Test Results/Plots

Test Mode	Frequency	Reading	Output Power	Limit
Test Mode	MHz	dBm	mW	mW
	2412	15.32	34.0408	1000
802.11b _ 11Mbps	2437	15.14	32.6588	1000
	2462	14.63	29.0402	1000
	2412	14.67	29.3089	1000
802.11g_54Mbps	2437	14.07	25.5270	1000
	2462	14.02	25.2348	1000
	2412	12.49	17.7419	1000
802.11n HT20_MCS7	2437	12.81	19.0985	1000
	2462	12.41	17.4181	1000

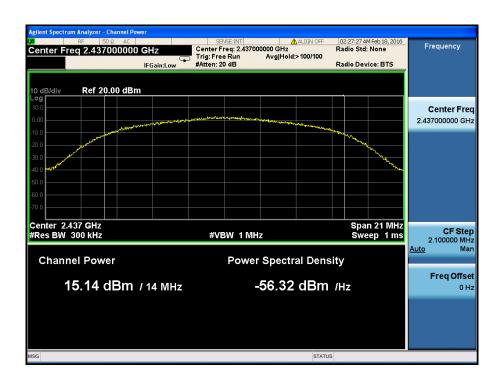
Please refer to the following test plots:



802.11b-11Mbps-Low Channel



802.11b -11Mbps-Middle Channel





802.11b -11Mpbs-High Channel

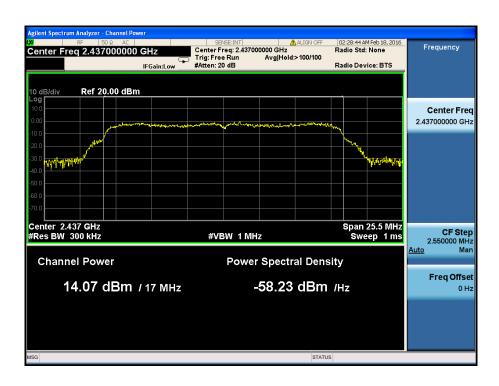


802.11g-54Mbps-Low Channel





802.11g-54Mbps -Middle Channel

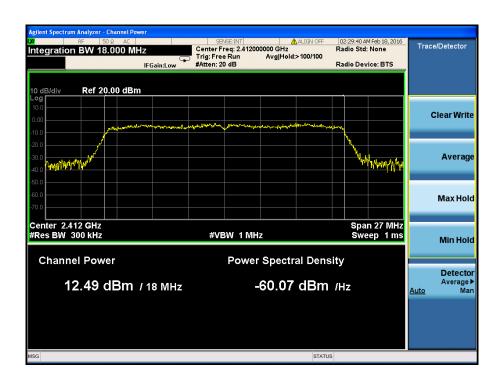


802.11g-54Mbps -High Channel





802.11n-HT20-MCS7-Low Channel

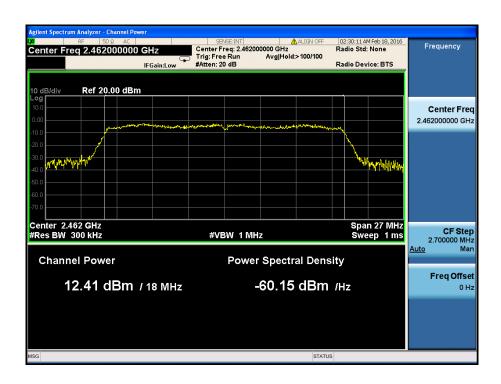


802.11n-HT20-MCS7-Middle Channel





802.11n-HT20-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Standard Applicable

According to §15.247(d), 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).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

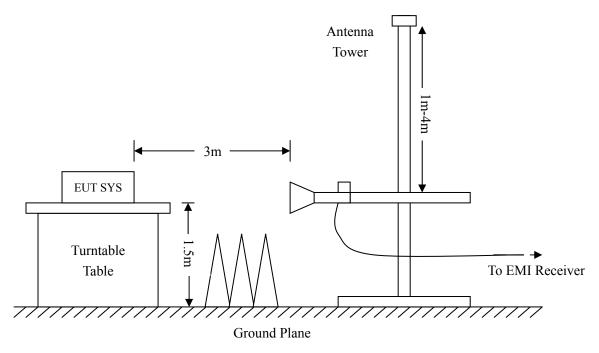
8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



REPORT NO.: STR16108158I-3 PAGE 30 OF 63 FCC PART 15.247



Frequency:9kHz-30MHz	Frequency:30MHz-1GHz	Frequency: Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	$Trace = \max hold$
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

8.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

8.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

8.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

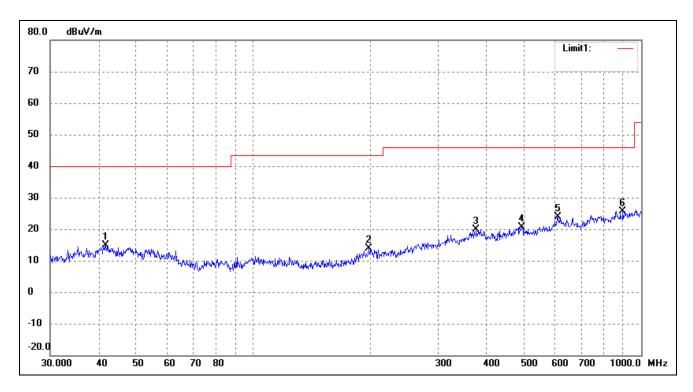
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: GPS product
Tested Model: MDT7P

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

Comment: DC 3.7V

Test Specification: Horizontal

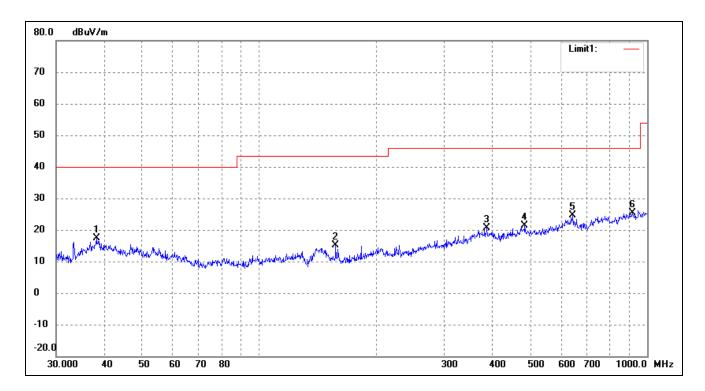


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	41.7130	22.71	-7.78	14.93	40.00	-25.07	0	100	peak
2	198.5879	22.71	-8.85	13.86	43.50	-29.64	0	100	peak
3	375.9384	22.27	-2.33	19.94	46.00	-26.06	0	100	peak
4	492.4685	22.33	-1.76	20.57	46.00	-25.43	0	100	peak
5	609.9216	23.30	0.54	23.84	46.00	-22.16	0	100	peak
6	896.9964	22.43	3.14	25.57	46.00	-20.43	0	100	peak





Test Specification: Vertical



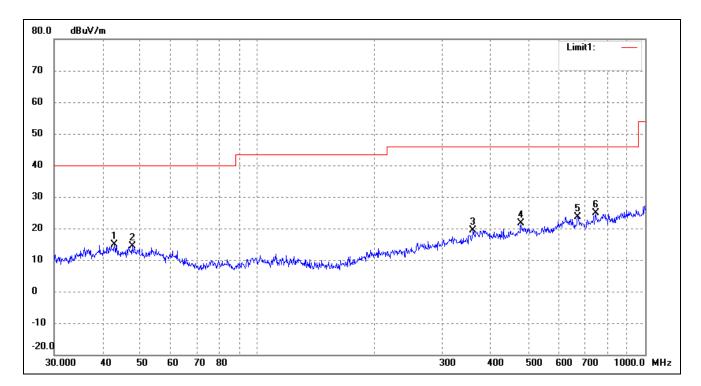
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.0782	25.55	-8.20	17.35	40.00	-22.65	0	100	peak
2	157.5588	27.56	-12.31	15.25	43.50	-28.25	0	100	peak
3	386.6338	23.09	-2.45	20.64	46.00	-25.36	0	100	peak
4	483.9094	22.77	-1.27	21.50	46.00	-24.50	0	100	peak
5	642.8613	24.06	0.65	24.71	46.00	-21.29	0	100	peak
6	916.0687	21.92	3.56	25.48	46.00	-20.52	0	100	peak



Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

Comment: DC 3.7V

Test Specification: Horizontal

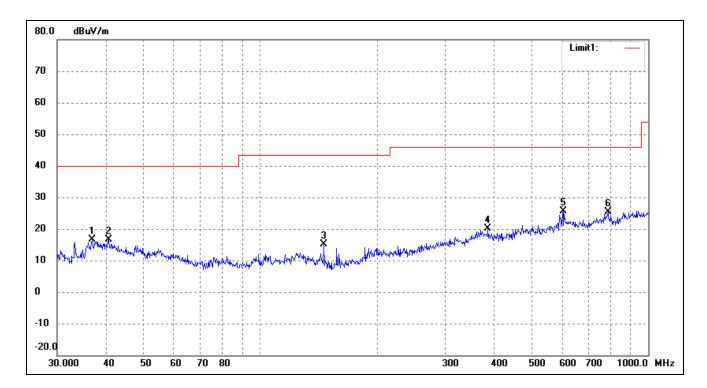


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	42.8997	22.63	-7.85	14.78	40.00	-25.22	0	100	peak
2	47.6585	22.54	-8.17	14.37	40.00	-25.63	0	100	peak
3	360.4476	22.64	-3.22	19.42	46.00	-26.58	0	100	peak
4	478.8455	22.67	-1.13	21.54	46.00	-24.46	0	100	peak
5	670.4892	23.38	0.20	23.58	46.00	-22.42	0	100	peak
6	744.8660	22.85	2.04	24.89	46.00	-21.11	0	100	peak





Test Specification: Vertical



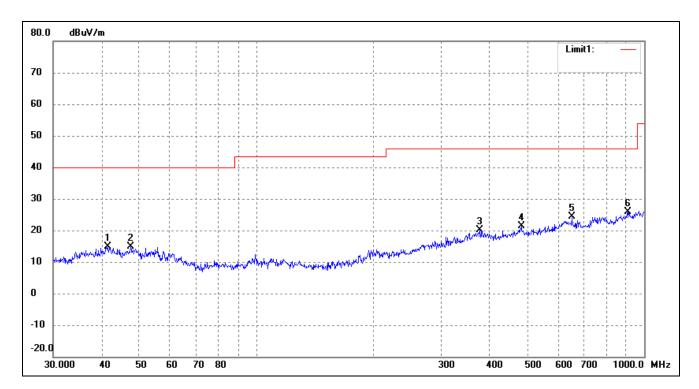
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	36.8952	25.27	-8.52	16.75	40.00	-23.25	0	100	peak
2	40.7015	24.32	-7.71	16.61	40.00	-23.39	0	100	peak
3	145.8610	27.60	-12.48	15.12	43.50	-28.38	0	100	peak
4	386.6338	22.64	-2.45	20.19	46.00	-25.81	0	100	peak
5	603.5392	25.64	0.10	25.74	46.00	-20.26	0	100	peak
6	787.8513	22.92	2.51	25.43	46.00	-20.57	0	100	peak



Operating Condition: 802.11b Transmitting High Channel-2462MHz

Comment: DC 3.7V

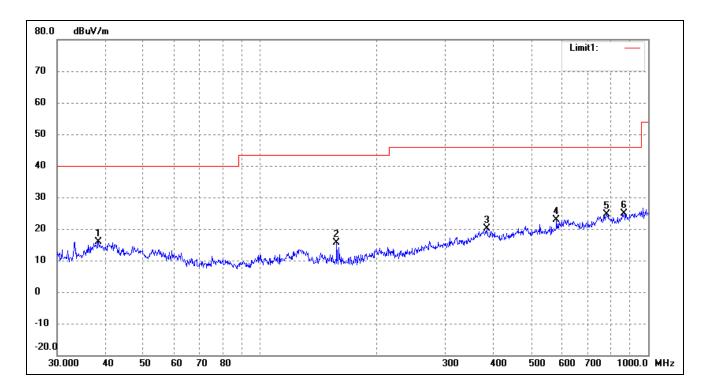
Test Specification: Horizontal



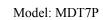
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	41.4215	22.57	-7.76	14.81	40.00	-25.19	0	100	peak
2	47.4917	23.14	-8.16	14.98	40.00	-25.02	0	100	peak
3	377.2590	22.32	-2.26	20.06	46.00	-25.94	0	100	peak
4	482.2155	22.53	-1.17	21.36	46.00	-24.64	0	100	peak
5	651.9416	24.00	0.46	24.46	46.00	-21.54	0	100	peak
6	906.4823	22.50	3.31	25.81	46.00	-20.19	0	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.3462	24.03	-8.12	15.91	40.00	-24.09	0	100	peak
2	157.5588	27.90	-12.31	15.59	43.50	-27.91	0	100	peak
3	383.9318	22.40	-2.30	20.10	46.00	-25.90	0	100	peak
4	580.7025	23.88	-0.93	22.95	46.00	-23.05	0	100	peak
5	782.3452	21.73	2.78	24.51	46.00	-21.49	0	100	peak
6	866.0878	22.00	2.99	24.99	46.00	-21.01	0	100	peak



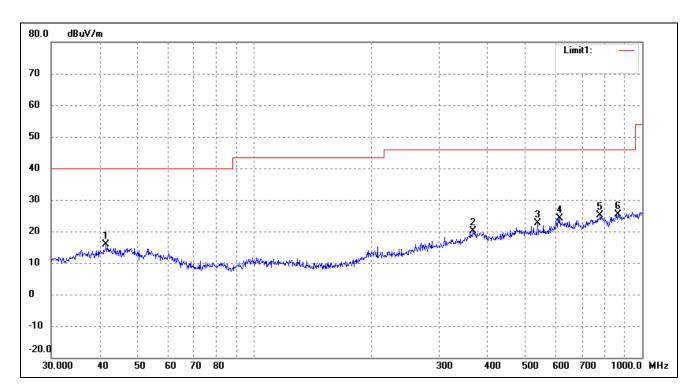


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: GPS product
Tested Model: MDT7P

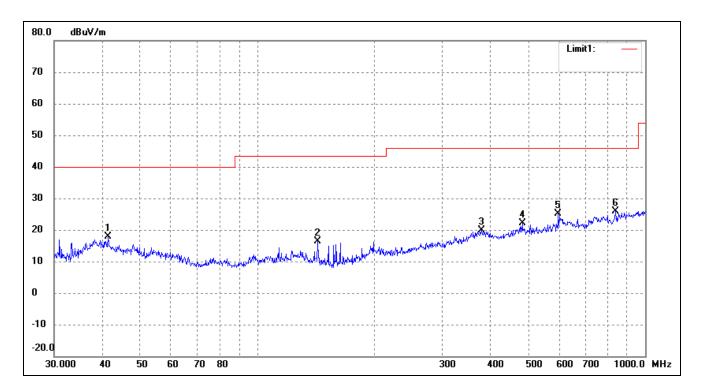
Operating Condition: 802.11g Transmitting Low Channel-2412MHz

Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	41.5670	23.75	-7.77	15.98	40.00	-24.02	0	100	peak
2	366.8231	22.93	-2.86	20.07	46.00	-25.93	0	100	peak
3	537.5891	24.33	-1.80	22.53	46.00	-23.47	0	100	peak
4	614.2142	23.41	0.83	24.24	46.00	-21.76	0	100	peak
5	779.6068	22.18	2.88	25.06	46.00	-20.94	0	100	peak
6	866.0878	22.45	2.99	25.44	46.00	-20.56	0	100	peak





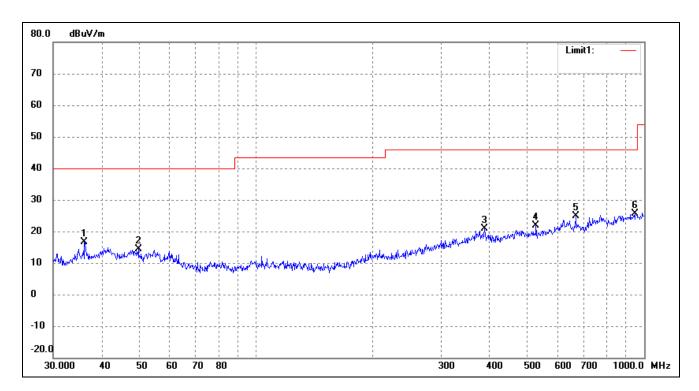
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	41.2764	25.75	-7.75	18.00	40.00	-22.00	0	100	peak
2	143.3260	28.95	-12.51	16.44	43.50	-27.06	0	100	peak
3	378.5842	22.02	-2.17	19.85	46.00	-26.15	0	100	peak
4	482.2155	23.33	-1.17	22.16	46.00	-23.84	0	100	peak
5	597.2233	25.28	-0.26	25.02	46.00	-20.98	0	100	peak
6	839.1817	23.87	1.91	25.78	46.00	-20.22	0	100	peak



TEST Model: MDT7P

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

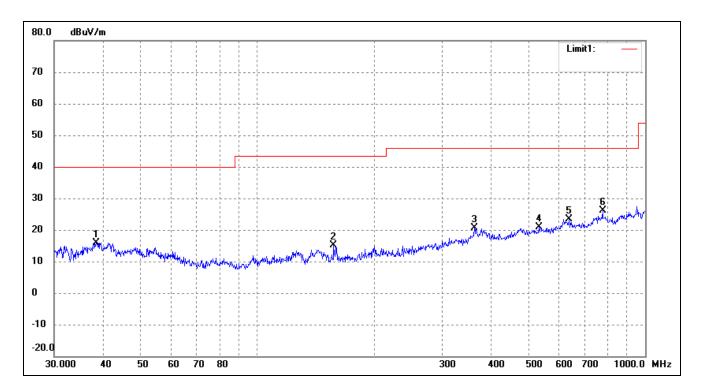
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	36.1272	25.47	-8.74	16.73	40.00	-23.27	0	100	peak
2	49.7068	22.71	-8.30	14.41	40.00	-25.59	0	100	peak
3	387.9920	23.33	-2.51	20.82	46.00	-25.18	0	100	peak
4	526.3967	23.84	-1.86	21.98	46.00	-24.02	0	100	peak
5	665.8034	24.70	0.24	24.94	46.00	-21.06	0	100	peak
6	948.7609	21.61	3.97	25.58	46.00	-20.42	0	100	peak





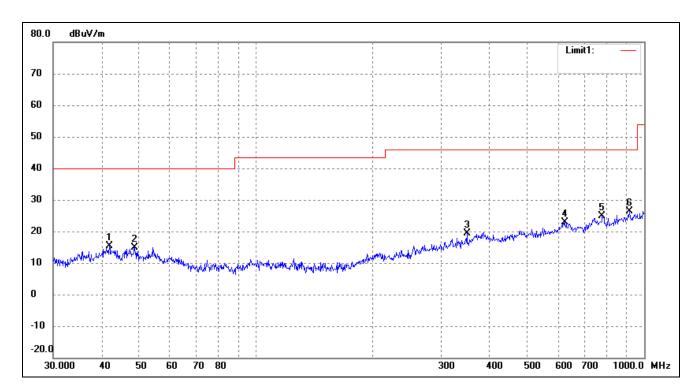


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.4808	24.00	-8.08	15.92	40.00	-24.08	0	100	peak
2	157.5588	27.35	-12.31	15.04	43.50	-28.46	0	100	peak
3	362.9845	23.78	-3.08	20.70	46.00	-25.30	0	100	peak
4	531.9634	22.76	-1.83	20.93	46.00	-25.07	0	100	peak
5	636.1340	22.60	0.82	23.42	46.00	-22.58	0	100	peak
6	776.8777	23.38	2.73	26.11	46.00	-19.89	0	100	peak



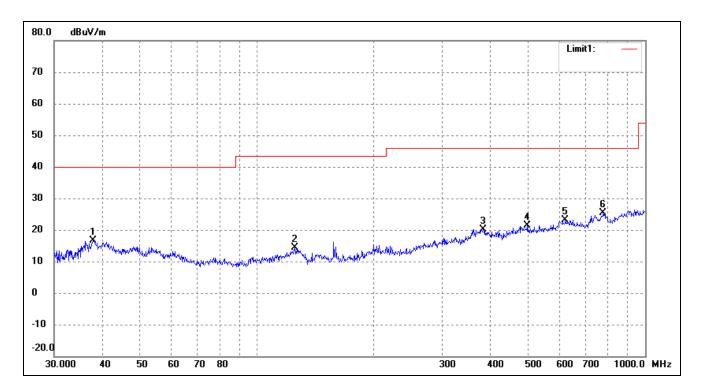
Operating Condition: 802.11g Transmitting High Channel-2462MHz

Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	41.8596	23.20	-7.79	15.41	40.00	-24.59	0	100	peak
2	48.6719	23.23	-8.23	15.00	40.00	-25.00	0	100	peak
3	349.2500	23.51	-4.19	19.32	46.00	-26.68	0	100	peak
4	625.0779	21.82	1.11	22.93	46.00	-23.07	0	100	peak
5	779.6068	22.11	2.88	24.99	46.00	-21.01	0	100	peak
6	916.0687	22.74	3.56	26.30	46.00	-19.70	0	100	peak





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	37.8121	24.88	-8.26	16.62	40.00	-23.38	0	100	peak
2	125.0066	26.14	-11.71	14.43	43.50	-29.07	0	100	peak
3	382.5878	22.34	-2.23	20.11	46.00	-25.89	0	100	peak
4	497.6764	23.45	-2.05	21.40	46.00	-24.60	0	100	peak
5	622.8899	21.94	1.16	23.10	46.00	-22.90	0	100	peak
6	779.6068	22.38	2.88	25.26	46.00	-20.74	0	100	peak

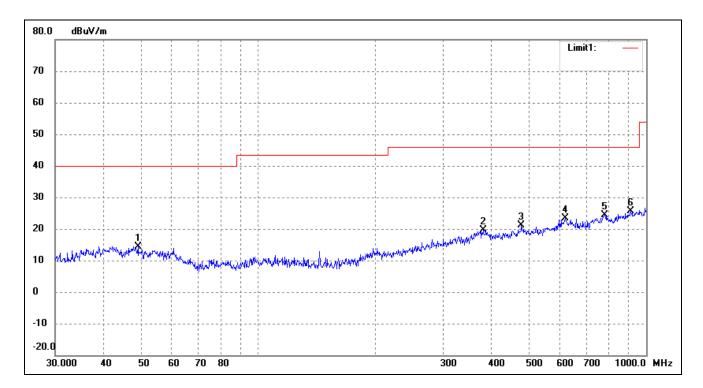
TEST Model: MDT7P

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

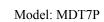
EUT: GPS product
Tested Model: MDT7P

Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz

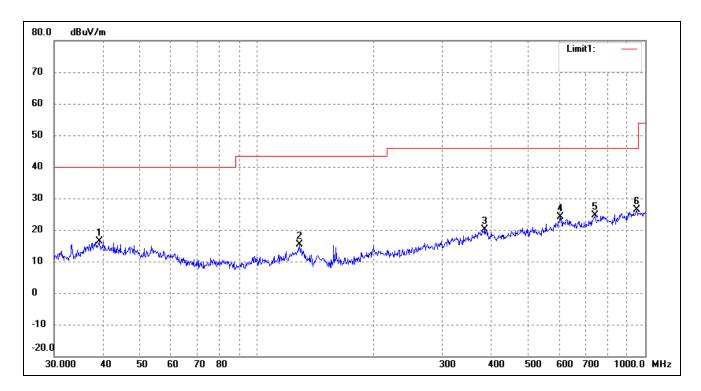
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	49.0144	22.72	-8.26	14.46	40.00	-25.54	0	100	peak
2	379.9141	21.86	-2.11	19.75	46.00	-26.25	0	100	peak
3	477.1693	22.38	-1.27	21.11	46.00	-24.89	0	100	peak
4	618.5368	22.31	1.14	23.45	46.00	-22.55	0	100	peak
5	782.3452	21.68	2.78	24.46	46.00	-21.54	0	100	peak
6	912.8619	22.14	3.49	25.63	46.00	-20.37	0	100	peak





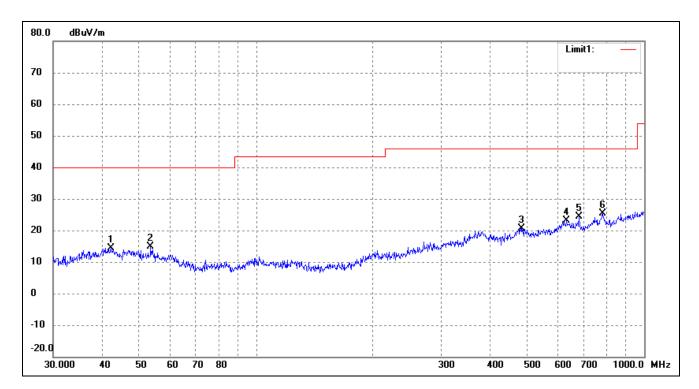


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.1615	24.22	-7.90	16.32	40.00	-23.68	0	100	peak
2	128.5629	27.23	-11.92	15.31	43.50	-28.19	0	100	peak
3	386.6338	22.70	-2.45	20.25	46.00	-25.75	0	100	peak
4	603.5392	23.93	0.10	24.03	46.00	-21.97	0	100	peak
5	742.2586	22.42	2.09	24.51	46.00	-21.49	0	100	peak
6	952.0937	22.45	3.85	26.30	46.00	-19.70	0	100	peak



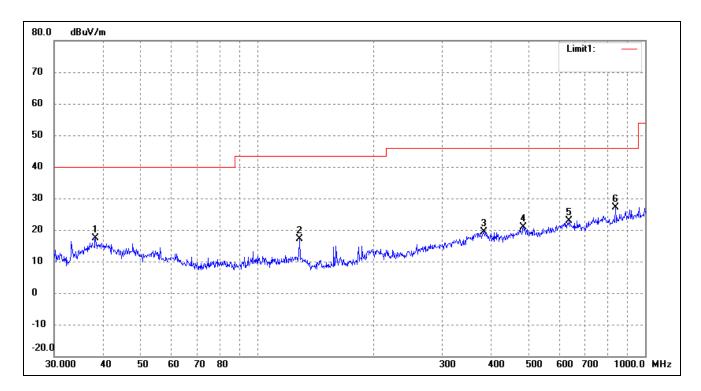
Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2437MHz

Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	42.3021	22.32	-7.82	14.50	40.00	-25.50	0	100	peak
2	53.5052	23.69	-8.76	14.93	40.00	-25.07	0	100	peak
3	483.9094	21.82	-1.27	20.55	46.00	-25.45	0	100	peak
4	631.6884	22.10	0.93	23.03	46.00	-22.97	0	100	peak
5	679.9600	24.24	0.10	24.34	46.00	-21.66	0	100	peak
6	782.3452	22.55	2.78	25.33	46.00	-20.67	0	100	peak



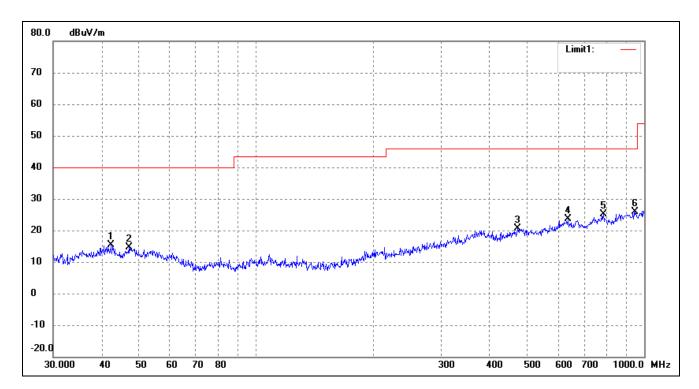


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.3462	25.58	-8.12	17.46	40.00	-22.54	0	100	peak
2	128.5629	29.02	-11.92	17.10	43.50	-26.40	0	100	peak
3	383.9318	21.60	-2.30	19.30	46.00	-26.70	0	100	peak
4	485.6093	22.25	-1.36	20.89	46.00	-25.11	0	100	peak
5	636.1340	22.18	0.82	23.00	46.00	-23.00	0	100	peak
6	839.1817	25.24	1.91	27.15	46.00	-18.85	0	100	peak



Operating Condition: 802.11n-HT20 Transmitting High Channel-2462MHz

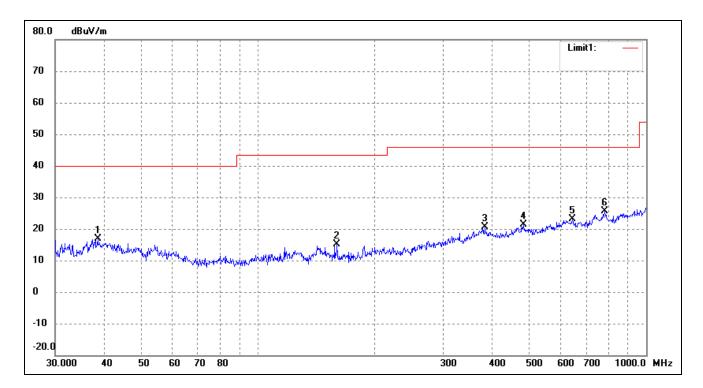
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	42.3021	23.12	-7.82	15.30	40.00	-24.70	0	100	peak
2	46.9947	22.73	-8.13	14.60	40.00	-25.40	0	100	peak
3	472.1759	22.33	-1.69	20.64	46.00	-25.36	0	100	peak
4	636.1340	22.75	0.82	23.57	46.00	-22.43	0	100	peak
5	785.0933	22.49	2.65	25.14	46.00	-20.86	0	100	peak
6	945.4397	21.87	4.08	25.95	46.00	-20.05	0	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.6161	24.89	-8.05	16.84	40.00	-23.16	0	100	peak
2	159.7844	27.38	-12.27	15.11	43.50	-28.39	0	100	peak
3	383.9318	22.87	-2.30	20.57	46.00	-25.43	0	100	peak
4	482.2155	22.43	-1.17	21.26	46.00	-24.74	0	100	peak
5	645.1195	22.42	0.61	23.03	46.00	-22.97	0	100	peak
6	782.3452	22.77	2.78	25.55	46.00	-20.45	0	100	peak





Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector			
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V				
			Low Channe	el-2412MHz			•			
4824.000	55.45	-3.86	51.59	74	-22.41	Н	PK			
4824.000	43.64	-3.86	39.78	54	-14.22	Н	AV			
7236.000	58.18	1.1	59.28	74	-14.72	Н	PK			
7236.000	47.27	1.1	48.37	54	-5.63	Н	AV			
4824.000	56.36	-3.86	52.50	74	-21.50	V	PK			
4824.000	45.45	-3.86	41.59	54	-12.41	V	AV			
7236.000	56.36	1.1	57.46	74	-16.54	V	PK			
7236.000	45.45	1.1	46.55	54	-7.45	V	AV			
	Middle Channel-2437MHz									
4874.000	58.18	-3.74	54.44	74	-19.56	Н	PK			
4874.000	40.00	-3.74	36.26	54	-17.74	Н	AV			
7311.000	57.27	1.47	58.74	74	-15.26	Н	PK			
7311.000	49.09	1.47	50.56	54	-3.44	Н	AV			
4874.000	58.18	-3.74	54.44	74	-19.56	V	PK			
4874.000	50.00	-3.74	46.26	54	-7.74	V	AV			
7311.000	59.09	1.47	60.56	74	-13.44	V	PK			
7311.000	43.64	1.47	45.11	54	-8.89	V	AV			
			High Chann	el-2462MHz						
4924.000	56.36	-3.63	52.73	74	-21.27	Н	PK			
4924.000	42.73	-3.63	39.10	54	-14.90	Н	AV			
7386.000	60.00	1.62	61.62	74	-12.38	Н	PK			
7386.000	46.36	1.62	47.98	54	-6.02	Н	AV			
4924.000	60.00	-3.63	56.37	74	-17.63	V	PK			
4924.000	46.36	-3.63	42.73	54	-11.27	V	AV			
7386.000	52.73	1.62	54.35	74	-19.65	V	PK			
7386.000	47.27	1.62	48.89	54	-5.11	V	AV			





Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector			
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V				
			Low Channe	el-2412MHz						
4824.000	58.18	-3.86	54.32	74	-19.68	Н	PK			
4824.000	47.27	-3.86	43.41	54	-10.59	Н	AV			
7236.000	59.09	1.1	60.19	74	-13.81	Н	PK			
7236.000	40.91	1.1	42.01	54	-11.99	Н	AV			
4824.000	58.18	-3.86	54.32	74	-19.68	V	PK			
4824.000	48.18	-3.86	44.32	54	-9.68	V	AV			
7236.000	60.00	1.1	61.10	74	-12.90	V	PK			
7236.000	40.91	1.1	42.01	54	-11.99	V	AV			
	Middle Channel-2437MHz									
4874.000	56.36	-3.74	52.62	74	-21.38	Н	PK			
4874.000	47.27	-3.74	43.53	54	-10.47	Н	AV			
7311.000	56.36	1.47	57.83	74	-16.17	Н	PK			
7311.000	50.00	1.47	51.47	54	-2.53	Н	AV			
4874.000	59.09	-3.74	55.35	74	-18.65	V	PK			
4874.000	47.27	-3.74	43.53	54	-10.47	V	AV			
7311.000	57.27	1.47	58.74	74	-15.26	V	PK			
7311.000	49.09	1.47	50.56	54	-3.44	V	AV			
			High Chann	el-2462MHz						
4924.000	53.64	-3.63	50.01	74	-23.99	Н	PK			
4924.000	48.18	-3.63	44.55	54	-9.45	Н	AV			
7386.000	52.73	1.62	54.35	74	-19.65	Н	PK			
7386.000	40.00	1.62	41.62	54	-12.38	Н	AV			
4924.000	54.55	-3.63	50.92	74	-23.08	V	PK			
4924.000	40.00	-3.63	36.37	54	-17.63	V	AV			
7386.000	60.00	1.62	61.62	74	-12.38	V	PK			
7386.000	48.18	1.62	49.80	54	-4.20	V	AV			





Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector			
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V				
			Low Channe	el-2412MHz						
4824.000	55.45	-3.86	51.59	74	-22.41	Н	PK			
4824.000	46.36	-3.86	42.50	54	-11.50	Н	AV			
7236.000	60.00	1.1	61.10	74	-12.90	Н	PK			
7236.000	41.82	1.1	42.92	54	-11.08	Н	AV			
4824.000	56.36	-3.86	52.50	74	-21.50	V	PK			
4824.000	47.27	-3.86	43.41	54	-10.59	V	AV			
7236.000	54.55	1.1	55.65	74	-18.35	V	PK			
7236.000	41.82	1.1	42.92	54	-11.08	V	AV			
	Middle Channel-2437MHz									
4874.000	59.09	-3.74	55.35	74	-18.65	Н	PK			
4874.000	40.00	-3.74	36.26	54	-17.74	Н	AV			
7311.000	59.09	1.47	60.56	74	-13.44	Н	PK			
7311.000	47.27	1.47	48.74	54	-5.26	Н	AV			
4874.000	57.27	-3.74	53.53	74	-20.47	V	PK			
4874.000	48.18	-3.74	44.44	54	-9.56	V	AV			
7311.000	57.27	1.47	58.74	74	-15.26	V	PK			
7311.000	47.27	1.47	48.74	54	-5.26	V	AV			
			High Chann	el-2462MHz						
4924.000	57.27	-3.63	53.64	74	-20.36	Н	PK			
4924.000	49.09	-3.63	45.46	54	-8.54	Н	AV			
7386.000	60.00	1.62	61.62	74	-12.38	Н	PK			
7386.000	40.91	1.62	42.53	54	-11.47	Н	AV			
4924.000	60.00	-3.63	56.37	74	-17.63	V	PK			
4924.000	40.00	-3.63	36.37	54	-17.63	V	AV			
7386.000	52.73	1.62	54.35	74	-19.65	V	PK			
7386.000	45.45	1.62	47.07	54	-6.93	V	AV			

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3^{th} Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.



9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) 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).

9.2 Test Procedure

According to the KDB 558074D01 v03r05, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 v03r05, the conducted spurious emissions test method as follows:

- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW \geq 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = \max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

REPORT NO.: STR16108158I-3 PAGE 53 OF 63 FCC PART 15.247

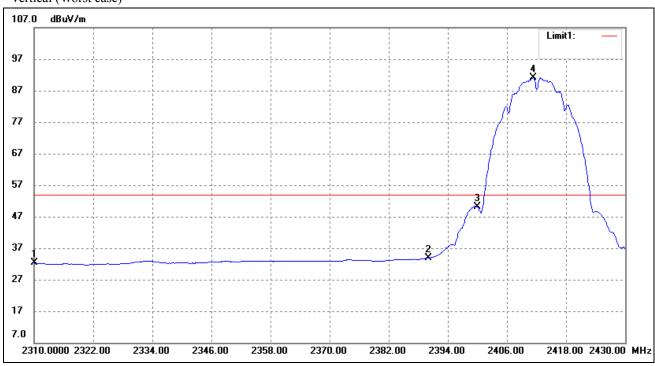
9.3 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

802.11b-Lowest Bandedge

Vertical (Worst case)

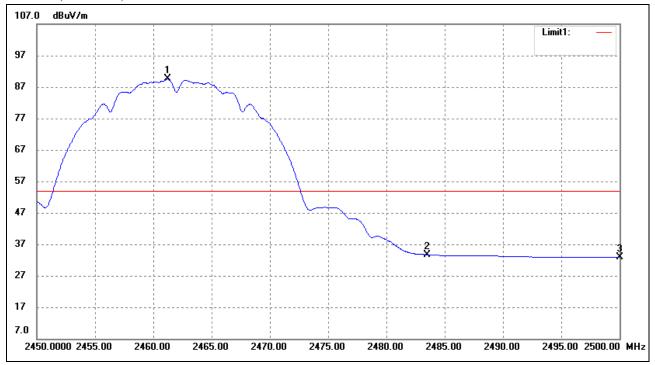


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	36.06	-3.80	32.26	54.00	-21.74	Average Detector
	2310.000	50.61	-3.80	46.81	74.00	-27.19	Peak Detector
2	2390.000	36.87	-3.00	33.87	54.00	-20.13	Average Detector
	2390.000	50.10	-3.00	47.10	74.00	-26.90	Peak Detector
3	2400.000	53.01	-2.90	50.11	54.00	-3.89	Average Detector
	2400.000	59.93	-2.90	57.03	74.00	-16.97	Peak Detector
4	2411.280	93.91	-2.84	91.07	/	/	Average Detector
	2413.080	99.91	-2.83	97.08	/	/	Peak Detector

REPORT NO.: STR16108158I-3 PAGE 54 OF 63 FCC PART 15.247



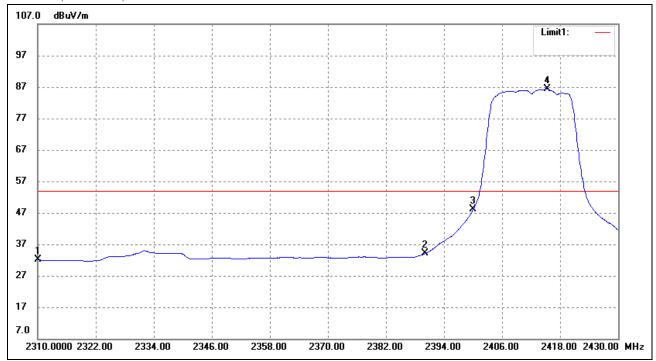
802.11b-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2461.200	92.14	-2.60	89.54	/	/	Average Detector
	2460.900	96.75	-2.60	94.15	/	/	Peak Detector
2	2483.500	36.17	-2.49	33.68	54.00	-20.32	Average Detector
	2483.500	48.79	-2.49	46.30	74.00	-27.70	Peak Detector
3	2500.000	35.33	-2.40	32.93	54.00	-21.07	Average Detector
	2500.000	46.89	-2.40	44.49	74.00	-29.51	Peak Detector



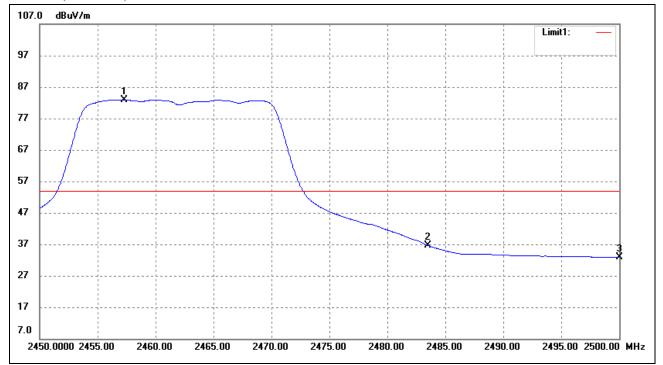
802.11g-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	35.89	-3.80	32.09	54.00	-21.91	Average Detector
	2310.000	51.47	-3.80	47.67	74.00	-26.33	Peak Detector
2	2390.000	37.02	-3.00	34.02	54.00	-19.98	Average Detector
	2390.000	57.85	-3.00	54.85	74.00	-19.15	Peak Detector
3	2400.000	50.92	-2.90	48.02	54.00	-5.98	Average Detector
	2400.000	75.23	-2.90	72.33	74.00	-1.67	Peak Detector
4	2415.360	89.14	-2.82	86.32	/	/	Average Detector
	2415.240	101.00	-2.82	98.18	/	/	Peak Detector



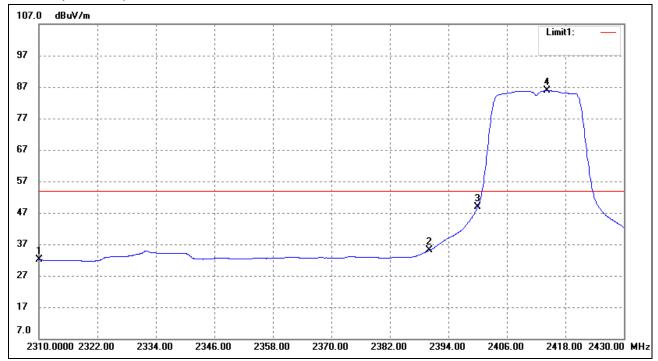
802.11g-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2457.300	85.50	-2.61	82.89	/	/	Average Detector
	2458.750	96.71	-2.61	94.10	/	/	Peak Detector
2	2483.500	39.11	-2.49	36.62	54.00	-17.38	Average Detector
	2483.500	57.42	-2.49	54.93	74.00	-19.07	Peak Detector
3	2500.000	35.25	-2.40	32.85	54.00	-21.15	Average Detector
	2500.000	48.08	-2.40	45.68	74.00	-28.32	Peak Detector



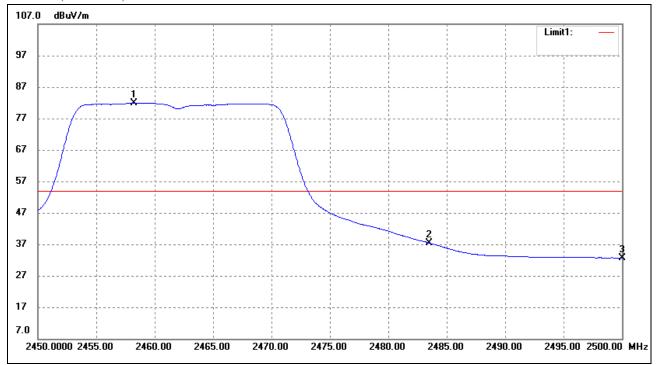
802.11n-HT20-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	35.91	-3.80	32.11	54.00	-21.89	Average Detector
	2310.000	51.08	-3.80	47.28	74.00	-26.72	Peak Detector
2	2390.000	38.08	-3.00	35.08	54.00	-18.92	Average Detector
	2390.000	53.45	-3.00	50.45	74.00	-23.55	Peak Detector
3	2400.000	51.73	-2.90	48.83	54.00	-5.17	Average Detector
	2400.000	73.05	-2.90	70.15	74.00	-3.85	Peak Detector
4	2414.280	88.80	-2.82	85.98	/	/	Average Detector
	2411.400	99.51	-2.84	96.67	/	/	Peak Detector



802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2458.200	84.49	-2.61	81.88	/	/	Average Detector
	2457.200	96.68	-2.61	94.07	/	/	Peak Detector
2	2483.500	39.92	-2.49	37.43	54.00	-16.57	Average Detector
	2483.500	61.28	-2.49	58.79	74.00	-15.21	Peak Detector
3	2500.000	35.08	-2.40	32.68	54.00	-21.32	Average Detector
	2500.000	48.88	-2.40	46.48	74.00	-27.52	Peak Detector

10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar



10.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Ouasi-Peak Adapter Mode	Normal

10.5 Summary of Test Results/Plots

According to the data in section 10.6, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for this device, with the *worst* margin reading of:

-6.72 dB at 0.154 MHz in the Line mode, Peak detector, 0.15-30MHz

10.6 Conducted Emissions Test Data



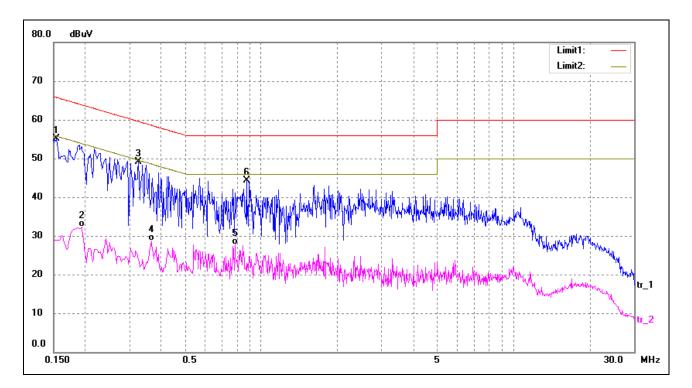
Plot of Conducted Emissions Test Data

EUT: GPS product
Tested Model: MDT7P

Operating Condition: Transmitting(Wi-Fi)

Comment: AC 120V/60Hz; Adapter DC 5V

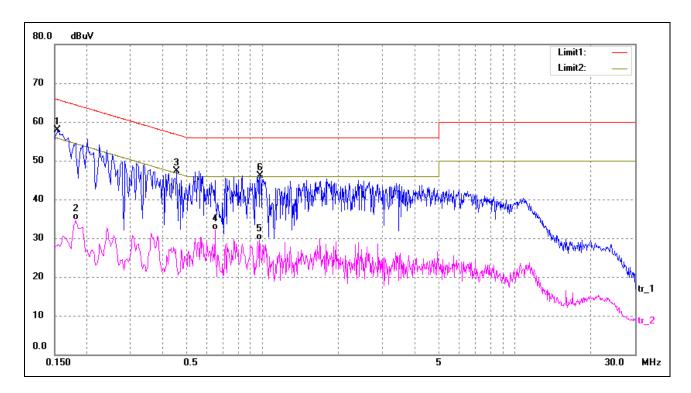
Test Specification: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.1532	45.57	9.50	55.07	65.82	-10.75	peak
2	0.1940	22.73	9.50	32.23	53.86	-21.63	AVG
3*	0.3260	39.70	9.50	49.20	59.55	-10.35	peak
4	0.3660	19.20	9.50	28.70	48.59	-19.89	AVG
5	0.7860	18.04	9.63	27.67	46.00	-18.33	AVG
6	0.8740	34.74	9.65	44.39	56.00	-11.61	peak



Test Specification: Live



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1540	48.42	9.50	57.92	65.78	-7.86	peak
2	0.1820	25.14	9.50	34.64	54.39	-19.75	AVG
3	0.4580	37.75	9.53	47.28	56.73	-9.45	peak
4	0.6500	22.42	9.60	32.02	46.00	-13.98	AVG
5	0.9780	19.74	9.67	29.41	46.00	-16.59	AVG
6	0.9820	36.52	9.68	46.20	56.00	-9.80	peak

***** END OF REPORT *****