

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC149564

1 of 96 Page:

FCC Radio Test Report FCC ID: 2AJRQ-ME300RE

Original Grant

Report No. TB-FCC149564

Applicant Maxeye Smart Technologies Co., Ltd.

Equipment Under Test (EUT)

EUT Name ME300RE 1.0

Model No. ME300RE 1.0

Series No. N/A

Brand Name MAXEYE

Receipt Date 2016-08-23

2016-08-24 to 2016-09-09 **Test Date**

Issue Date 2016-09-10

Standards FCC Part 15, Subpart C (15.247:2015)

Test Method ANSI C63.10: 2013

Conclusions **PASS**

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

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer

Approved&

Authorized

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

TB-RF-074-1.0

Tel: +86 75526509301

Fax: +86 75526509195





Page: 2 of 96

Contents

CON	NTENTS	2
1.	GENERAL INFORMATION ABOUT EUT	4
	1.1 Client Information	4
	1.2 General Description of EUT (Equipment Under Test)	4
	1.3 Block Diagram Showing the Configuration of System Tested	5
	1.4 Description of Support Units	
	1.5 Description of Test Mode	6
	1.6 Description of Test Software Setting	7
	1.7 Measurement Uncertainty	8
	1.7 Test Facility	
2.	TEST SUMMARY	9
3.	TEST EQUIPMENT	10
4.	CONDUCTED EMISSION TEST	11
	4.1 Test Standard and Limit	11
	4.2 Test Setup	
	4.3 Test Procedure	
	4.4 EUT Operating Mode	12
	4.5 Test Data	12
5.	RADIATED EMISSION TEST	15
	5.1 Test Standard and Limit	15
	5.2 Test Setup	16
	5.3 Test Procedure	17
	5.4 EUT Operating Condition	17
	5.5 Test Data	18
6.	RESTRICTED BANDS REQUIREMENT	49
	6.1 Test Standard and Limit	49
	6.2 Test Setup	49
	6.3 Test Procedure	49
	6.4 EUT Operating Condition	50
	6.5 Test Data	
7.	BANDWIDTH TEST	73
	7.1 Test Standard and Limit	73
	7.2 Test Setup	73
	7.3 Test Procedure	73
	7.4 EUT Operating Condition	73
	7.5 Test Data	74
8.	PEAK OUTPUT POWER TEST	86
	8.1 Test Standard and Limit	86



Page: 3 of 96

	8.2 Test Setup	86
	8.3 Test Procedure	86
	8.4 EUT Operating Condition	86
	8.5 Test Data	87
9.	POWER SPECTRAL DENSITY TEST	88
	9.1 Test Standard and Limit	
	9.2 Test Setup	88
	9.3 Test Procedure	88
	9.4 EUT Operating Condition	
	9.5 Test Data	89
10.	ANTENNA REQUIREMENT	96
	10.1 Standard Requirement	96
	10.2 Antenna Connected Construction	96



Page: 4 of 96

1. General Information about EUT

1.1 Client Information

Applicant: Maxeye Smart Technologies Co., Ltd.

Address : Room 6008, Chuangxingda Building, Xinan, Baoan, Shenzhen, P.R.C

Manufacturer : Maxeye Smart Technologies Co., Ltd.

Address : Room 6008, Chuangxingda Building, Xinan, Baoan, Shenzhen, P.R.C

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	ME300RE 1.0					
Models No.		ME300RE 1.0	ME300RE 1.0				
Model Difference	-	N/A	TODA TOTAL				
E GOBY		Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz					
	N)	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)				
	V.	RF Output Power:	802.11b: 22.19 dBm 802.11g: 21.94 dBm 802.11n (HT20): 21.86 dBm				
Product Description	Ó	THE PARTY OF THE P	802.11n (HT40): 21.78 dBm				
		Antenna Gain:	4.6 dBi Dipole Antenna				
		Modulation Type:	802.11b: DSSS(CCK, QPSK, BPSK) 802.11g: OFDM				
		THE STATE OF THE S	802.11n: OFDM				
		Bit Rate of	802.11b:11/5.5/2/1 Mbps				
	6	Transmitter:	802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps				
Power Supply	Ŀ	DC 5V supplied by A0	C/DC Adapter.				
Power Rating	00	AC/DC Adapter: Input: AC 100~240V, Output: DC 5V	Input: AC 100~240V, 50/60Hz				
Connecting I/O Port(S)		Please refer to the Us	Please refer to the User's Manual				

Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC



Page: 5 of 96

KDB 558074 D01 DTS Meas Guidance v03r05.

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

(3) Channel List:

(0) 0110111101 2101					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

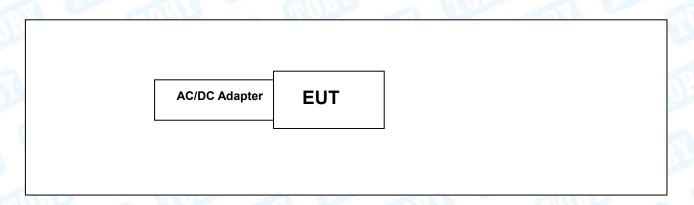
Note:CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)

(4) Antenna information

Mode	TX Antenna (s)	Remark
802.11b	1	The worst case is ANT 1 TX
802.11g	1	The worst case is ANT 1 TX
802.11n (HT20)	2	ANT 1+ANT 2 TX
802.11n (HT40)	2	ANT 1+ANT 2 TX

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

Equipment Information				
Name Model		S/N	Manufacturer	Used "√"
AC/DC Adapter	TEKA012		TEKA	1



Page: 6 of 96

1.5 Description of Test Mode

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

For	Conducted Test
Final Test Mode	Description
Mode 1	TX B Mode

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

Note:

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

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

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

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

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



Page: 7 of 96

1.6 Description of Test Software Setting

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

	TODA S		Software: reCRT 7.3	CITIES S
	Te	st Mode: Con	tinuously transmit	tting
Mode	Data Bata	Channel	Param	eters
Wode	Data Rate	Channel	ANT 1	ANT 2
(3)	CCK/ 1Mbps	01	18	18
802.11b	CCK/ 1Mbps	06	18	18
AM.	CCK/ 1Mbps	11	18	18
(6)	OFDM/ 6Mbps	01	23	23
802.11g	OFDM/ 6Mbps	06	23	23
J. Christian	OFDM/ 6Mbps	11	23	23
3	MCS 0	01	20	20
802.11n(20)	MCS 0	06	20	20
A ROLL	MCS 0	11	20	20
	MCS 0	03	20	20
802.11n(40)	MCS 0	06	20	20
110	MCS 0	09	20	20

Note: TX signal at 802.11b/g mode only could transmit at Ant.1 or Ant. 2. all the test mode have pretest with two Antenna, but the worst case is ANT 1.The report only show the worst case.



Page: 8 of 96

1.7 Measurement Uncertainty

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

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
	Level Accuracy:	. 4 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dadiated Emission	Level Accuracy:	. 4 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Dedicted Emission	Level Accuracy:	. 4.20 dD
Radiated Emission	Above 1000MHz	±4.20 dB

1.7 Test Facility

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

CNAS (L5813)

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

FCC List No.: (811562)

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

IC Registration No.: (11950A-1)

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



Page: 9 of 96

2. Test Summary

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

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

N/A is an abbreviation for Not Applicable.



Page: 10 of 96

3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 201
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 20, 2016	Mar. 19, 201
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 20, 2016	Mar. 19, 201
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 19, 2016	Mar. 18, 201
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 19, 2016	Mar. 18, 201
Pre-amplifier	Sonoma	310N	185903	Mar. 20, 2016	Mar. 19, 201
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 201
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 201
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	onducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 201
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



Page: 11 of 96

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

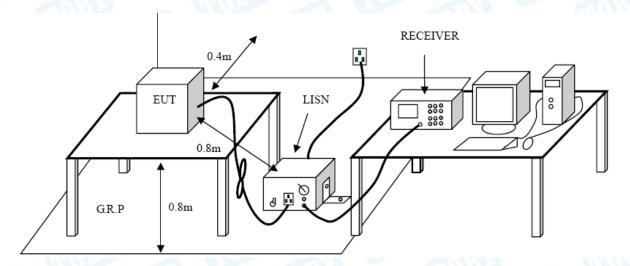
Conducted Emission Test Limit

THE PLANT OF THE PARTY OF THE P	Maximum RF Lin	e Voltage (dBμV)
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

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

4.2 Test Setup



4.3 Test Procedure

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

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



Page: 12 of 96

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

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

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

4.4 EUT Operating Mode

Please refer to the description of test mode.

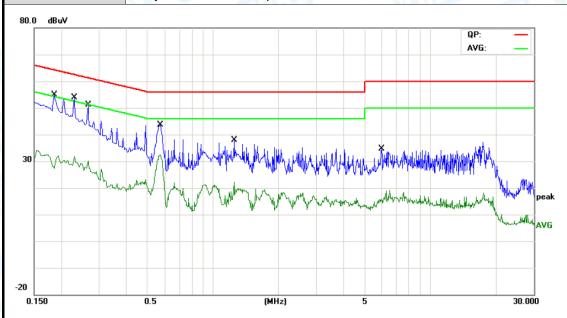
4.5 Test Data

Please see the next page.



Page: 13 of 96

EUT:	ME300RE 1.0	Model Name :	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Terminal:	Line		
Test Mode:	TX B Mode	THE PARTY OF	J KILL
Remark:	Only worse case is reported	ans and	



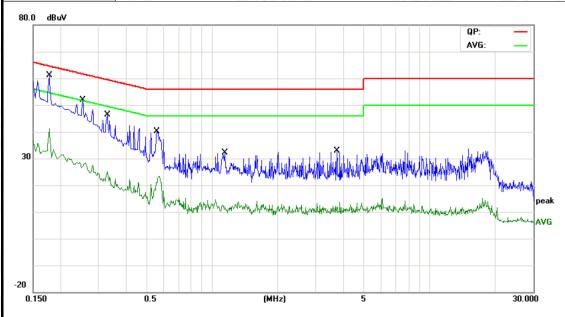
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector
1		0.1860	37.09	10.12	47.21	64.21	-17.00	QP
2		0.1860	19.67	10.12	29.79	54.21	-24.42	AVG
3		0.2300	33.94	10.11	44.05	62.45	-18.40	QP
4		0.2300	18.50	10.11	28.61	52.45	-23.84	AVG
5		0.2660	32.51	10.10	42.61	61.24	-18.63	QP
6		0.2660	16.61	10.10	26.71	51.24	-24.53	AVG
7		0.5740	29.53	10.02	39.55	56.00	-16.45	QP
8	*	0.5740	21.73	10.02	31.75	46.00	-14.25	AVG
9		1.2500	17.21	10.13	27.34	56.00	-28.66	QP
10		1.2500	6.45	10.13	16.58	46.00	-29.42	AVG
11		5.9740	11.61	10.06	21.67	60.00	-38.33	QP
12		5.9740	3.55	10.06	13.61	50.00	-36.39	AVG

*:Maximum data x:Over limit !:over margin



Page: 14 of 96

EUT:	ME300RE 1.0	Model Name :	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Terminal:	Neutral		
Test Mode:	TX B Mode		J KIND
Remark:	Only worse case is reported	dam -	0



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1	*	0.1780	42.80	10.12	52.92	64.57	-11.65	QP
2		0.1780	20.76	10.12	30.88	54.57	-23.69	AVG
3		0.2540	32.31	10.10	42.41	61.62	-19.21	QP
4		0.2540	15.51	10.10	25.61	51.62	-26.01	AVG
5		0.3300	26.24	10.08	36.32	59.45	-23.13	QP
6		0.3300	10.28	10.08	20.36	49.45	-29.09	AVG
7		0.5580	21.92	10.02	31.94	56.00	-24.06	QP
8		0.5580	11.18	10.02	21.20	46.00	-24.80	AVG
9		1.1420	15.71	10.15	25.86	56.00	-30.14	QP
10		1.1420	1.25	10.15	11.40	46.00	-34.60	AVG
11		3.7420	9.69	10.06	19.75	56.00	-36.25	QP
12		3.7420	-0.26	10.06	9.80	46.00	-36.20	AVG

*:Maximum data x:Over limit !:over margin



Page: 15 of 96

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

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

Radiated Emission Limit (Above 1000MHz)

Frequency	Class A (dBu	V/m)(at 3 M)	Class B (dBuV/m)(at 3 M)	
(MHz)	Peak	Average	Peak	Average
Above 1000	80	60	74	54

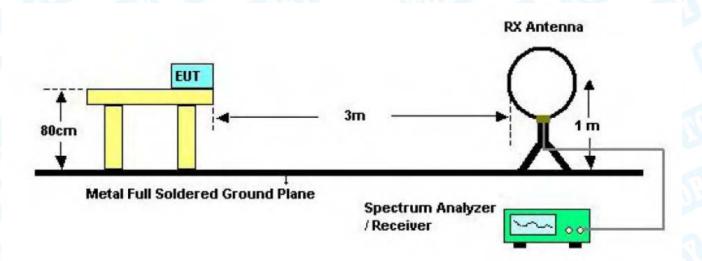
Note:

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

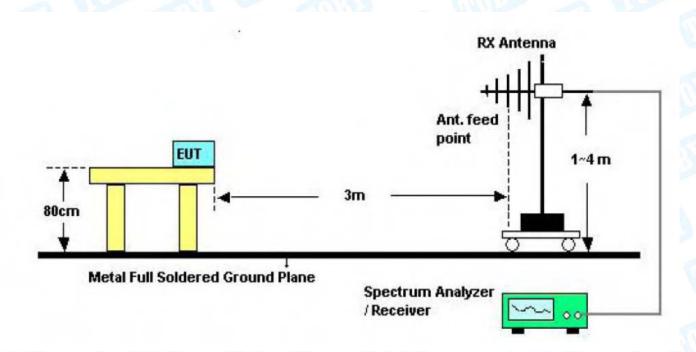


Page: 16 of 96

5.2 Test Setup



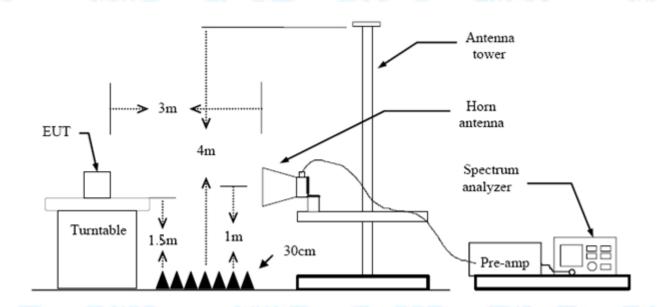
Below 30MHz Test Setup



Below 1000MHz Test Setup



Page: 17 of 96



Above 1GHz Test Setup

5.3 Test Procedure

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

5.4 EUT Operating Condition

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



Page: 18 of 96

5.5 Test Data

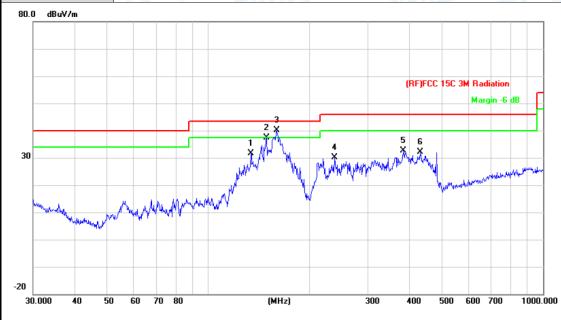
Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



Page: 19 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V	33 - 01	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		a live
Remark:	Only worse case is reported		D ~ 0
20.0 10.111			



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		134.0882	53.65	-21.97	31.68	43.50	-11.82	peak
2		149.4857	58.32	-21.04	37.28	43.50	-6.22	peak
3	*	160.3456	60.52	-20.30	40.22	43.50	-3.28	peak
4		238.3102	48.33	-18.27	30.06	46.00	-15.94	peak
5		382.5879	46.07	-13.50	32.57	46.00	-13.43	peak
6		429.5228	44.53	-12.36	32.17	46.00	-13.83	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 20 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		A DO
Remark:	Only worse case is reported	WUR'S	0



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		51.3005	50.57	-24.51	26.06	40.00	-13.94	peak
2		79.8003	51.82	-23.34	28.48	40.00	-11.52	peak
3		86.2001	54.82	-22.97	31.85	40.00	-8.15	peak
4		158.1123	55.75	-20.42	35.33	43.50	-8.17	peak
5	*	166.6514	57.73	-20.70	37.03	43.50	-6.47	peak
6		417.6411	42.55	-12.42	30.13	46.00	-15.87	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 21 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz	Miles of	
Remark:	Only worse case is reported	THE MANUEL STREET	0
00 0 dD.4//-			



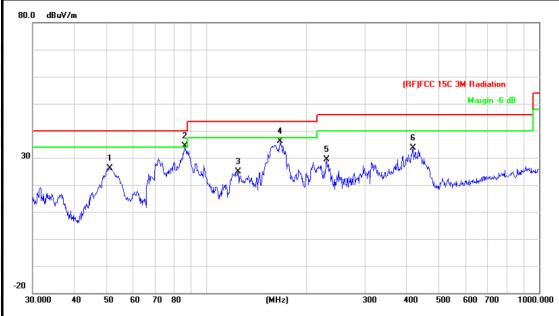
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	160.3454	59.52	-20.30	39.22	43.50	-4.28	peak
2	2		175.0364	51.37	-20.59	30.78	43.50	-12.72	peak
3	3		238.3102	48.33	-18.27	30.06	46.00	-15.94	peak
4	1		344.3854	45.84	-14.51	31.33	46.00	-14.67	peak
5	5		382.5878	49.07	-13.50	35.57	46.00	-10.43	peak
6	6		480.5276	45.09	-11.13	33.96	46.00	-12.04	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 22 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 5V						
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2437MHz	William .					
Remark:	nark: Only worse case is reported						



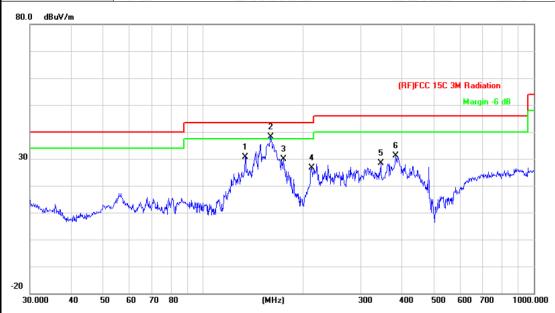
No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		51.3004	50.57	-24.51	26.06	40.00	-13.94	peak
2	*	86.2001	57.32	-22.97	34.35	40.00	-5.65	peak
3		124.5690	47.27	-22.27	25.00	43.50	-18.50	peak
4		166.6511	56.73	-20.70	36.03	43.50	-7.47	peak
5		229.2931	48.18	-18.70	29.48	46.00	-16.52	peak
6		417.6409	46.05	-12.42	33.63	46.00	-12.37	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 23 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 5V	DC 5V					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX B Mode 2462MHz						
Remark:	Only worse case is reported						
80.0 dBuV/m							



No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		134.0882	52.65	-21.97	30.68	43.50	-12.82	peak
2	*	160.3454	58.52	-20.30	38.22	43.50	-5.28	peak
3		175.0363	50.37	-20.59	29.78	43.50	-13.72	peak
4		213.0149	46.16	-19.43	26.73	43.50	-16.77	peak
5		344.3854	42.84	-14.51	28.33	46.00	-17.67	peak
6		382.5878	44.57	-13.50	31.07	46.00	-14.93	peak

^{*:}Maximum data x:Over limit !:over margin



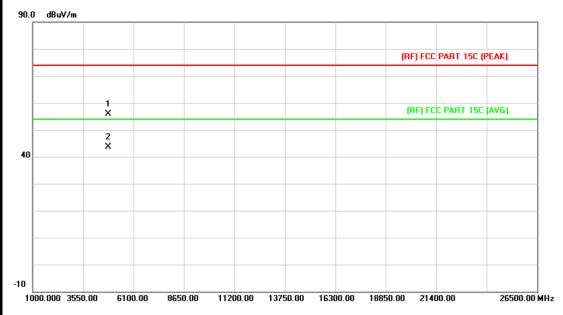
Page: 24 of 96

EUT:	ME300RE 1.0	aW	Model:	ME300RE 1.0
Temperature:	25 ℃		Relative Humidity	: 55%
Test Voltage:	DC 5V			
Ant. Pol.	Vertical	Aller		
Test Mode:	TX B Mode 2462MH	Hz	CHILD IN	3
Remark:	Only worse case is	reported		30 _ (
80.0 dBuV/m				
30	1 2 3 3 1 1 1 1	*h.yy/**	(RF)FCC	15C 3M Radiation Margin -6 dB
30.000 40	50 60 70 80	(MHz)	300 400	500 600 700 1000.000
No. Mk.	Reading Freq. Level	Correct Factor	Measure- ment Limit	Over
	MHz dBuV	dB/m	dBuV/m dBuV/m	n dB Detecto
1 5	1.3004 52.07	-24.51	27.56 40.00	-12.44 peak
2 86	6.2001 55.82	-22.97	32.85 40.00	-7.15 peak
3 98	8.1419 49.65	-22.01	27.64 43.50	-15.86 peak
4 * 16	6.6511 58.23	-20.70	37.53 43.50	
5 20	9.3129 47.96	-19.59	28.37 43.50	
6 41	7.6409 43.55	-12.42	31.13 46.00	
*:Maximum data	x:Over limit !:over margin	-		· · · · ·



Page: 25 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	Relative Humidity: 5				
Test Voltage:	DC 5V					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2412MHz ANT 1	THE PARTY OF THE P	FILL			
Remark: No report for the emission which more than 10 dB below the prescrib						

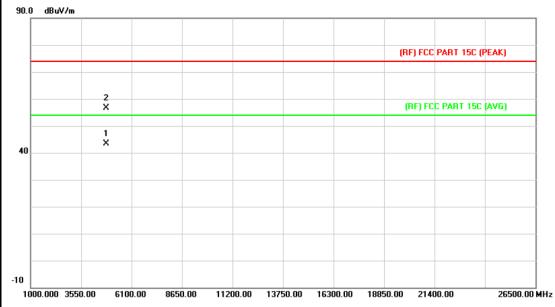


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.775	42.38	13.56	55.94	74.00	-18.06	peak
2	*	4824.307	30.16	13.56	43.72	54.00	-10.28	AVG



Page: 26 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 5V						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2412MHz ANT	1	7				
Remark:	No report for the emission w	which more than 10 dB	below the				
	prescribed limit.						

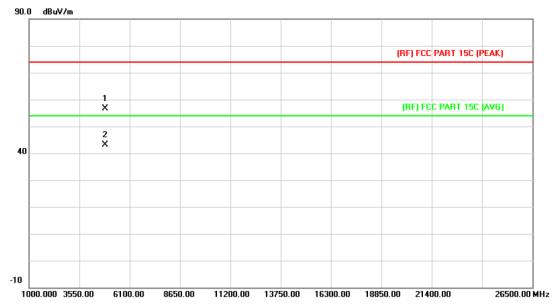


N	o. MI	κ. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.874	29.89	13.56	43.45	54.00	-10.55	AVG
2		4824.410	43.16	13.56	56.72	74.00	-17.28	peak



Page: 27 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 ℃	55%					
Test Voltage:	DC 5V						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX B Mode 2437MHz ANT	1					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

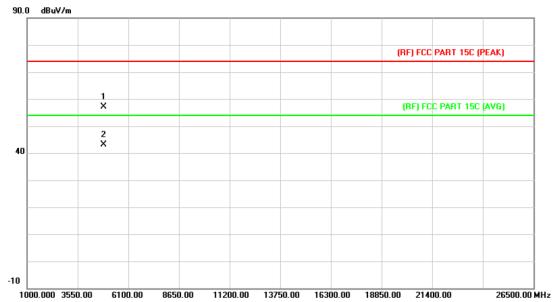


N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.661	42.87	13.86	56.73	74.00	-17.27	peak
2	*	4873.708	29.37	13.86	43.23	54.00	-10.77	AVG



Page: 28 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 ℃	25 ℃ Relative Humidity: 55%					
Test Voltage:	DC 5V	DC 5V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2437MHz ANT	1	a line				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
1							

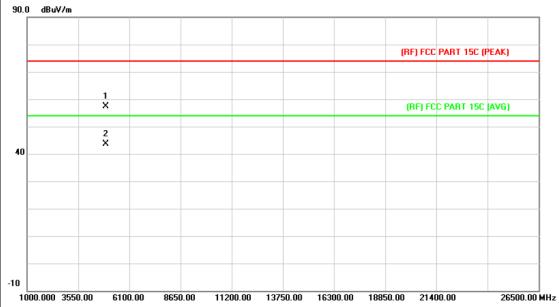


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.837	43.28	13.86	57.14	74.00	-16.86	peak
2	*	4874.304	29.31	13.86	43.17	54.00	-10.83	AVG



Page: 29 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0					
Temperature:	25 ℃	55%						
Test Voltage:	DC 5V	DC 5V						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX B Mode 2462MHz ANT 1	GIUDE	J. P. Line					
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the						
	prescribed limit.							
i								

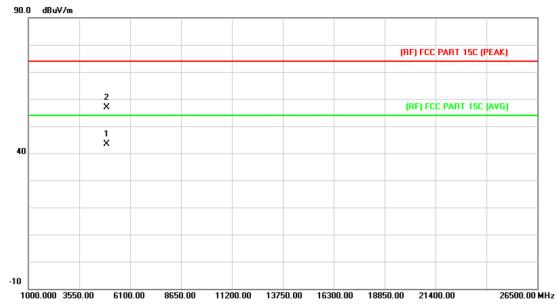


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.606	43.21	14.15	57.36	74.00	-16.64	peak
2	*	4924.412	29.59	14.15	43.74	54.00	-10.26	AVG



Page: 30 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0					
Temperature:	25 ℃	25 °C Relative Humidity: 55%						
Test Voltage:	DC 5V	DC 5V						
Ant. Pol.	Vertical							
Test Mode:	TX B Mode 2462MHz ANT 1	CIULIA	J. P. D.					
Remark:	No report for the emission w	No report for the emission which more than 10 dB below the						
	prescribed limit.							

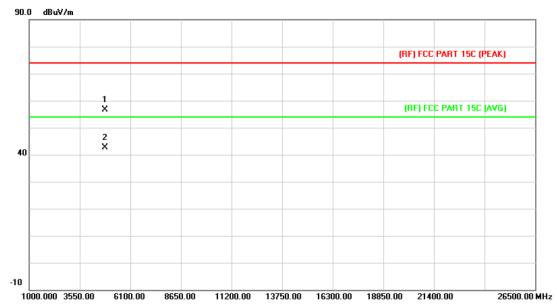


N	lo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4923.605	29.32	14.15	43.47	54.00	-10.53	AVG
2			4924.154	42.73	14.15	56.88	74.00	-17.12	peak



Page: 31 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0		
Temperature:	25 ℃	25 °C Relative Humidity: 55%			
Test Voltage:	DC 5V				
Ant. Pol.	Horizontal				
Test Mode:	TX G Mode 2412MHz ANT 1		F. P. Carrie		
Remark:	No report for the emission which limit.	n more than 10 dB belo	w the prescribed		

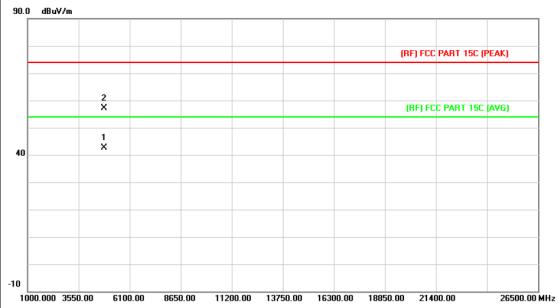


N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.821	43.00	13.56	56.56	74.00	-17.44	peak
2	*	4823.879	29.19	13.56	42.75	54.00	-11.25	AVG



Page: 32 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 ℃	25 °C Relative Humidity: 55%					
Test Voltage:	DC 5V	DC 5V					
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2412MHz ANT	1	a Villa				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						

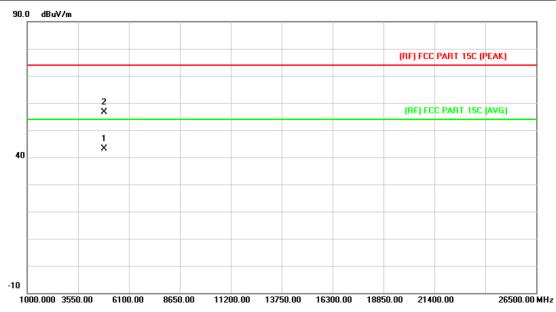


N	o. M	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.608	29.13	13.56	42.69	54.00	-11.31	AVG
2		4824.197	43.46	13.56	57.02	74.00	-16.98	peak



Page: 33 of 96

ME300RE 1.0	Model:	ME300RE 1.0				
25 ℃	P.5 °C Relative Humidity: 55%					
DC 5V	DC 5V					
Horizontal						
TX G Mode 2437MHz ANT	1	a Villa				
No report for the emission which more than 10 dB below the						
prescribed limit.						
	25 °C DC 5V Horizontal TX G Mode 2437MHz ANT No report for the emission w	25 °C Relative Humidity: DC 5V Horizontal TX G Mode 2437MHz ANT 1 No report for the emission which more than 10 dB b				

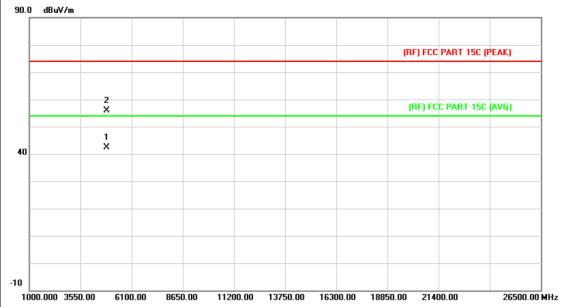


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.590	29.34	13.86	43.20	54.00	-10.80	AVG
2		4874.015	42.68	13.86	56.54	74.00	-17.46	peak



Page: 34 of 96

ME300RE 1.0	Model:	ME300RE 1.0				
25 ℃	55%					
DC 5V						
Vertical						
TX G Mode 2437MHz ANT 1						
No report for the emission which more than 10 dB below the						
	25 ℃ DC 5V Vertical TX G Mode 2437MHz ANT 1	25 °C Relative Humidity: DC 5V Vertical TX G Mode 2437MHz ANT 1 No report for the emission which more than 10 dB b				

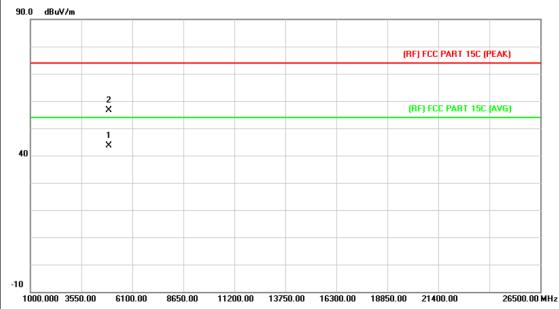


N	lo.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4874.192	28.40	13.86	42.26	54.00	-11.74	AVG
2			4874.341	41.98	13.86	55.84	74.00	-18.16	peak



Page: 35 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 5V					
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2462MHz ANT 1					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

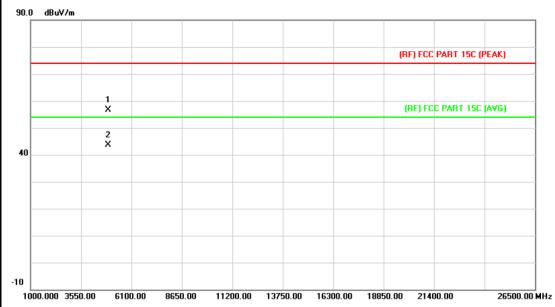


No. Mk.		. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.780	29.60	14.15	43.75	54.00	-10.25	AVG
2		4924.344	42.58	14.15	56.73	74.00	-17.27	peak



Page: 36 of 96

ME300RE 1.0	Model:	ME300RE 1.0				
25 ℃	55%					
DC 5V						
Vertical						
TX G Mode 2462MHz ANT 1						
No report for the emission which more than 10 dB below the						
prescribed limit.						
	25 ℃ DC 5V Vertical TX G Mode 2462MHz ANT 1 No report for the emission wh	25 °C Relative Humidity: DC 5V Vertical TX G Mode 2462MHz ANT 1 No report for the emission which more than 10 dB be				

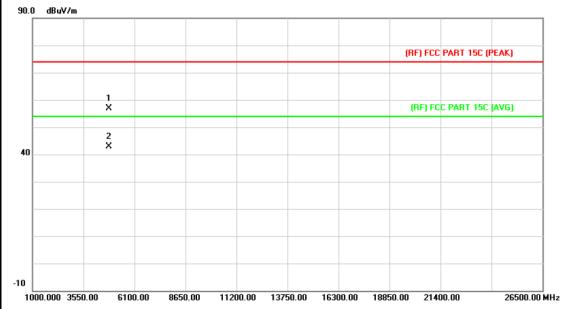


1	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4924.288	42.56	14.15	56.71	74.00	-17.29	peak
2		*	4924.314	29.37	14.15	43.52	54.00	-10.48	AVG



Page: 37 of 96

EUT:	ME300RE 1.0	ME300RE 1.0					
Temperature:	25 ℃	Relative Humidity: 55%					
Test Voltage:	DC 5V						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2412MH	z ANT1+2	a live				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

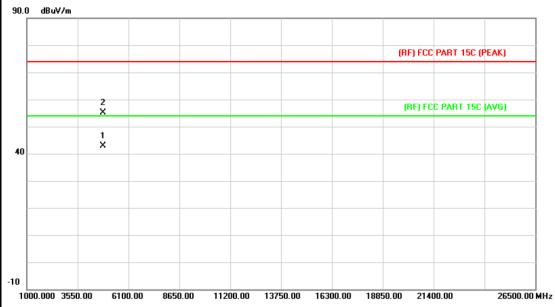


N	o. M	k. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.939	43.26	13.56	56.82	74.00	-17.18	peak
2	*	4824.132	29.33	13.56	42.89	54.00	-11.11	AVG



Page: 38 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0					
Temperature:	25 ℃	°C Relative Humidity: 55%						
Test Voltage:	DC 5V							
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX N(HT20) Mode 2412MH	Iz ANT 1+2	2					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.							

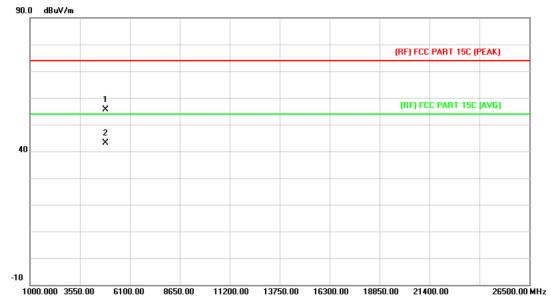


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.372		13.56		54.00	-11.14	AVG
2		4824.399	41.50	13.56	55.06	74.00	-18.94	peak



Page: 39 of 96

EUT:	ME300RE 1.0 Model: ME300RE							
Temperature:	25 ℃	55%						
Test Voltage:	DC 5V							
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT20) Mode 2437MH	z ANT 1+2	a live					
Remark:	No report for the emission w	No report for the emission which more than 10 dB below the						
	prescribed limit.							

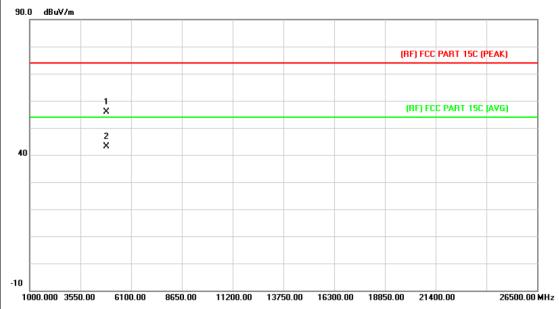


1	No. N	Лk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4873.919	41.82	13.86	55.68	74.00	-18.32	peak
2	*		4874.350	29.24	13.86	43.10	54.00	-10.90	AVG



Page: 40 of 96

0RE 1.0	Model:	ME300RE 1.0				
MILES OF	Relative Humidity:	FF0/				
	Relative Humidity: 55%					
DC 5V						
Vertical						
HT20) Mode 243	7MHz ANT 1+2	3				
No report for the emission which more than 10 dB below the						
prescribed limit.						
 	al HT20) Mode 243 port for the emiss	al HT20) Mode 2437MHz ANT 1+2 port for the emission which more than 10 dB t				

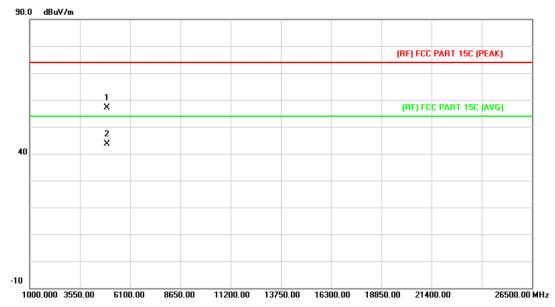


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.562	41.91	13.86	55.77	74.00	-18.23	peak
2	*	4874.475	29.16	13.86	43.02	54.00	-10.98	AVG



Page: 41 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 5V					
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT20) Mode 2462MHz AN	T 1+2	N. N.			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

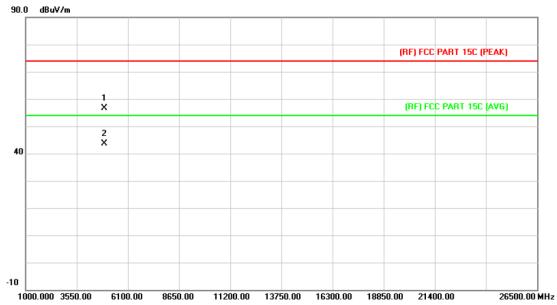


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.948	42.91	14.15	57.06	74.00	-16.94	peak
2	*	4924.132	29.38	14.15	43.53	54.00	-10.47	AVG



Page: 42 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 °C Relative Humidity: 55%						
Test Voltage:	DC 5V						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2462MH	z ANT 1+2					
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						
i							

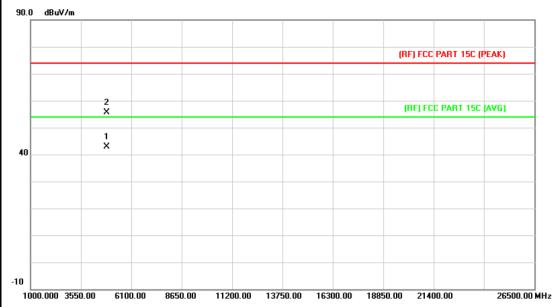


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4924.188	42.49	14.15	56.64	74.00	-17.36	peak
2		*	4924.262	29.51	14.15	43.66	54.00	-10.34	AVG



Page: 43 of 96

EUT:	ME300RE 1.0	ME300RE 1.0 Model: ME300					
Temperature:	25 ℃	Relative Humidity: 55%					
Test Voltage:	DC 5V						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2422MH	z ANT 1+2	J. Killian				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

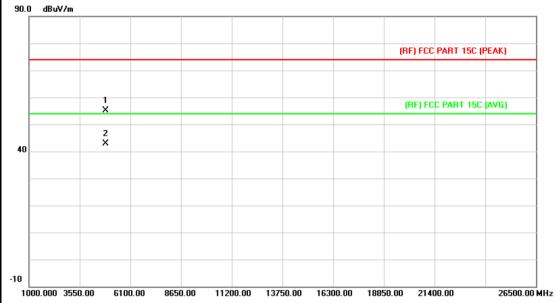


No	o. Mł	c. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.528	29.21	13.68	42.89	54.00	-11.11	AVG
2		4844.496	42.05	13.68	55.73	74.00	-18.27	peak



Page: 44 of 96

EUT:	ME300RE 1.0	ME300RE 1.0						
Temperature:	25 ℃	25 °C Relative Humidity: 55%						
Test Voltage:	DC 5V	DC 5V						
Ant. Pol.	Vertical							
Test Mode:	TX N(HT40) Mode 2422N	/IHz ANT 1+2						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.							

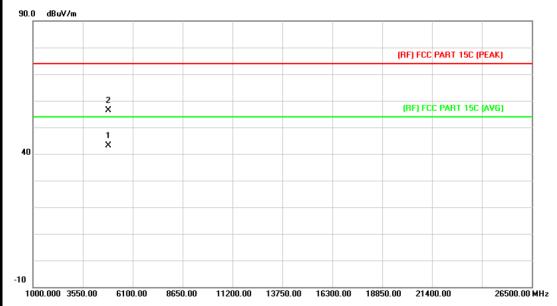


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4844.065	41.42	13.68	55.10	74.00	-18.90	peak
2	*	4844.330	29.18	13.68	42.86	54.00	-11.14	AVG



Page: 45 of 96

EUT:	ME300RE 1.0	ME300RE 1.0						
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 5V	DC 5V						
Ant. Pol.	Horizontal							
Test Mode:	TX N(HT40) Mode 2437MH	Iz ANT 1+2	a William					
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the						
	prescribed limit.							
	-							

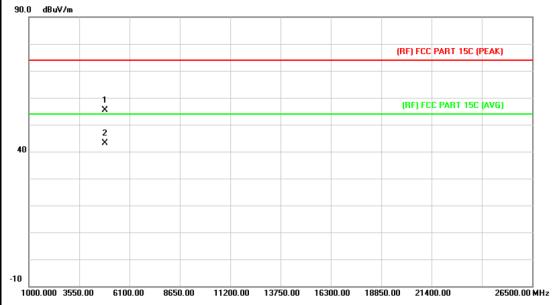


No. Mk.		Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4873.703	29.35	13.86	43.21	54.00	-10.79	AVG
2			4874.190	42.46	13.86	56.32	74.00	-17.68	peak



Page: 46 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 5V							
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX N(HT40) Mode 2437MH	z ANT 1+2	3					
Remark:	No report for the emission which more than 10 dB below the							
	prescribed limit.							

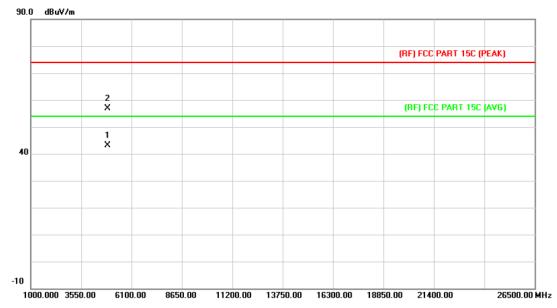


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.838	41.64	13.86	55.50	74.00	-18.50	peak
2	*	4874.458	29.25	13.86	43.11	54.00	-10.89	AVG



Page: 47 of 96

EUT:	ME300RE 1.0 Model : ME300						
Temperature:	25 ℃ Relative Humidity: 55%						
Test Voltage:	DC 5V						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2452MHz AN	T 1+2	A Brown				
Remark:	No report for the emission which more than 10 dB below the prescribed						
	limit.						

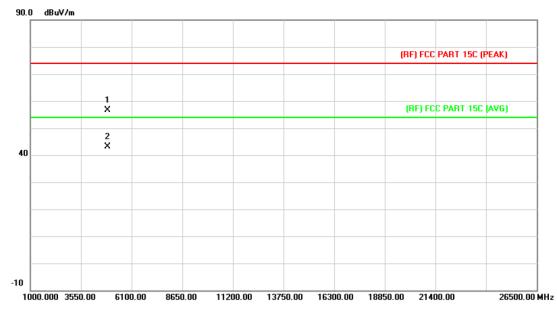


-	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4903.746	29.18	14.03	43.21	54.00	-10.79	AVG
2			4904.458	42.76	14.03	56.79	74.00	-17.21	peak



Page: 48 of 96

EUT:	ME300RE 1.0	ME300RE 1.0					
Temperature:	25 ℃	25 ℃ Relative Humidity: 55%					
Test Voltage:	DC 5V						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2452MH	z ANT 1+2	J KIND				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.942	42.56	14.03	56.59	74.00	-17.41	peak
2	*	4904.259	29.08	14.03	43.11	54.00	-10.89	AVG



Page: 49 of 96

6. Restricted Bands Requirement

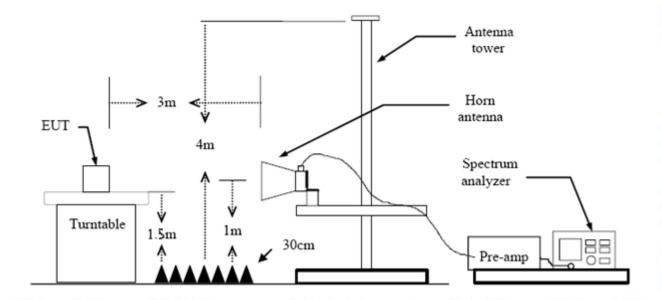
6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Class B (dBuV/m)(at 3 M)					
Band (MHz)	Peak	Average				
2310 ~2390	74	54				
2483.5 ~2500	74	54				

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.



Page: 50 of 96

(4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

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

6.5 Test Data

Please see the next page.



Page: 51 of 96

(1) Radiation Test

EUT:	ME300RE 1.0	Model:	ME300RE 1.0						
Temperature:25 °CTest Voltage:DC 5VAnt. Pol.HorizontalTest Mode:TX B Mode 24	25 ℃	Relative Humidity:	55%						
Test Voltage:	DC 5V	U.S.							
Ant. Pol.	Horizontal		A NO						
Temperature: 25 °C Test Voltage: DC 5\ Ant. Pol. Horizo Test Mode: TX B	TX B Mode 2412MHz AN	X B Mode 2412MHz ANT1							
Remark:	N/A								

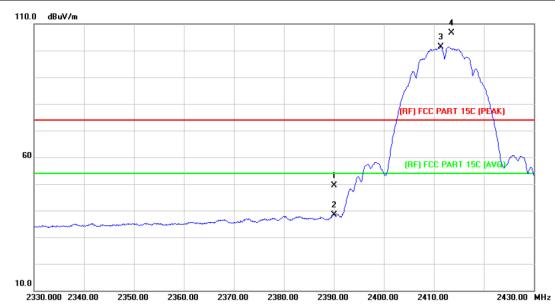


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.72	0.77	46.49	74.00	-27.51	peak
2		2390.000	33.98	0.77	34.75	54.00	-19.25	AVG
3	Χ	2410.700	96.78	0.86	97.64	 Fundamental	Frequency	peak
4	*	2411.400	92.51	0.86	93.37	Fundamenta	Frequency	AVG



Page: 52 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		(Elm.)
Test Mode:	TX B Mode 2412MHz ANT 1	CHUP TO	A December 1
Remark:	N/A	W. W.	7 6

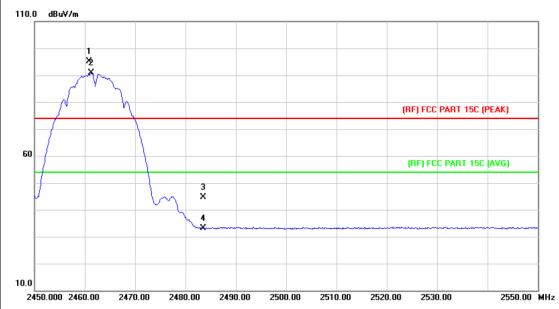


No.	. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	48.64	0.77	49.41	74.00	-24.59	peak
2		2390.000	37.72	0.77	38.49	54.00	-15.51	AVG
3	*	2411.400	100.62	0.86	101.48	Fundamenta	I Frequency	AVG
4	Χ	2413.500	105.87	0.86	106.73	Fundamenta	ıl Frequency	peak



Page: 53 of 96

ME300RE 1.0	Model:	ME300RE 1.0
25 ℃	Relative Humidity:	55%
DC 5V	37	
Horizontal		
TX B Mode 2462MHz ANT	1	a Villa
N/A		
	25 ℃ DC 5V Horizontal TX B Mode 2462MHz ANT	25 °C Relative Humidity: DC 5V Horizontal TX B Mode 2462MHz ANT 1

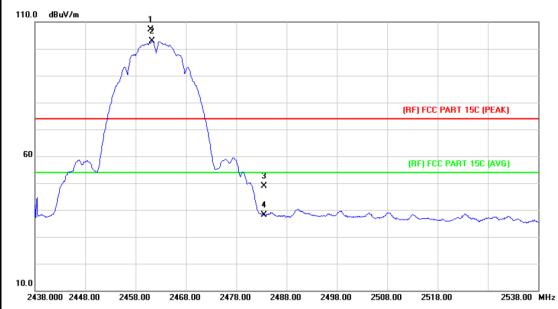


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2460.900	94.08	1.06	95.14	Fundamenta	l Frequency	peak
2	*	2461.300	89.71	1.07	90.78	Fundamenta	l Frequency	AVG
3		2483.500	43.49	1.17	44.66	74.00	-29.34	peak
4		2483.500	31.92	1.17	33.09	54.00	-20.91	AVG



Page: 54 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		C. C. C.
Test Mode:	TX B Mode 2462MHz ANT 1	CHURCH CO	A FILL
Remark:	N/A	ill m	3 _ 0

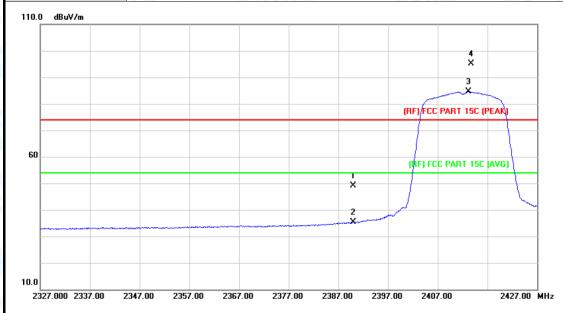


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2461.000	106.09	1.06	107.15	Fundamental	Frequency	peak
2	*	2461.300	101.78	1.07	102.85	Fundamental	Frequency	AVG
3		2483.500	47.67	1.17	48.84	74.00	-25.16	peak
4		2483.500	37.03	1.17	38.20	54.00	-15.80	AVG



Page: 55 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		COM
Test Mode:	TX G Mode 2412MHz ANT	1 (1)(1)	a live
Remark:	N/A		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	48.37	0.77	49.14	74.00	-24.86	peak
2		2390.000	34.69	0.77	35.46	54.00	-18.54	AVG
3	*	2413.200	83.81	0.86	84.67	Fundamenta	I Frequency	AVG
4	Χ	2413.700	94.38	0.86	95.24	Fundamenta	I Frequency	peak



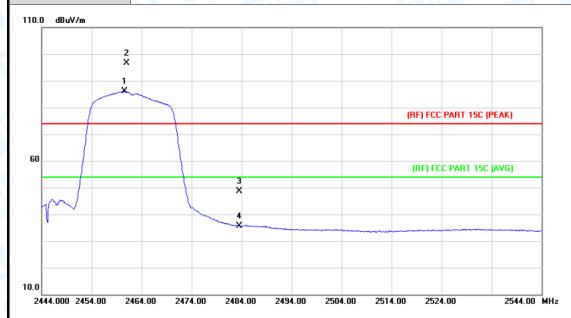
Page: 56 of 96

emp	EUT:			ME300RE 1.0					Model:				E300F	₹E 1.	U
Temperature: 25 °C							3		Rela	tive H	umidity:	55	5%	W	
est \	Voltag	e:	DC 5	٥V			1	M	60		Tri)				A
۱nt. F	Pol.		Vertic	cal			HA	J)		1					
est l	Mode:		TX G	Mod	le 24	12MI	Hz AN	IT 1	6	1117		A	B	علالا	
Rema	ark:		N/A	W							611				
110.0	dBuV/m											4			_
												×	۲		
												3 3			1
											(DE) FOO	DADT	15C (PEAK	•	
-											(RF) FCC	PART	ISC (PEAK	.J	
														\	
60										1 X	(RF) FC	C PART	15C (AV6		
										2	De la Carte			•	
_							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			X					
10.0	29.000 23	39.00	2349.00	2359.	00 2	369.00	2379	9.00	2389.	.00 23	99.00 2409	9.00	2	429.00	_ MHz
				D-	li			-4	N 4						
Nc	o. Mk	Fr	eq.		ading evel		Corre Facto			asure- ent	Limit	(Over		
140	J. IVIK													-	
			Hz		BuV		dB/m			uV/m	dBuV/n		dB	Dete	ecto
1		2390	.000	55	5.34		0.77		56	5.11	74.00) -	17.89	ре	eak
2		2390	.000	42	2.27		0.77		43	3.04	54.00) -	10.96	Α	VG
3	*	2411	.000	95	5.41		0.86		96	3.27	Fundame	ntal Fr	equency	Α	VG
4	Х	2414	.500	10	5.76		0.88		10	6.64	— Fundame	ntal Fr	equency	pe	eak



Page: 57 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz ANT	1	a live
Remark:	N/A		

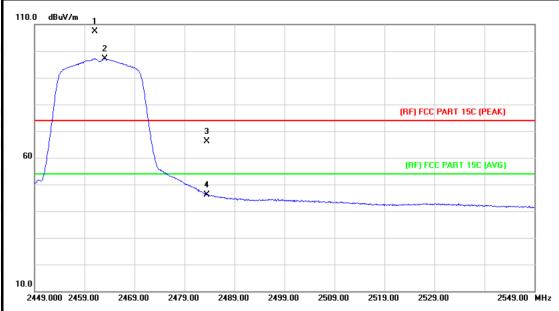


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2460.600	85.04	1.06	86.10	Fundamenta	al Frequency	AVG
2	Χ	2461.000	95.65	1.06	96.71	Fundamenta	al Frequency	peak
3		2483.500	47.49	1.17	48.66	74.00	-25.34	peak
4		2483.500	34.42	1.17	35.59	54.00	-18.41	AVG



Page: 58 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0							
Temperature:	25 ℃	Relative Humidity:	55%							
Test Voltage:	DC 5V									
Ant. Pol.	Vertical	Vertical								
Test Mode:	TX G Mode 2462MHz ANT	1 (1)(1)	a William							
Remark:	N/A		D ~ 0							



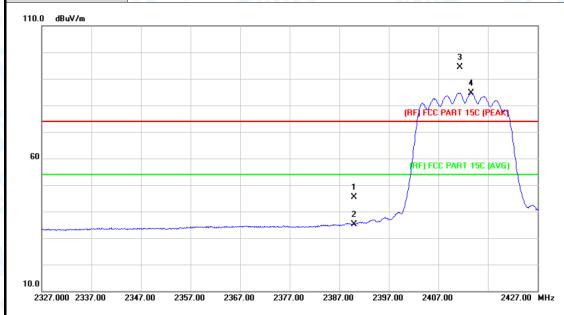
1	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		X	2461.000	106.27	1.06	107.33	Fundamenta	Frequency	peak
2		*	2463.100	96.09	1.08	97.17	Fundamenta	Frequency	AVG
3			2483.500	65.04	1.17	66.21	74.00	-7.79	peak
4			2483.500	44.84	1.17	46.01	54.00	-7.99	AVG



59 of 96

Page:

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MH	z ANT 1+2	3 100
Remark:	N/A		

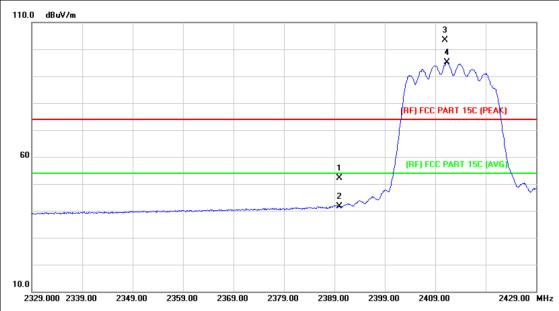


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.70	0.77	45.47	74.00	-28.53	peak
2		2390.000	34.35	0.77	35.12	54.00	-18.88	AVG
3	X	2411.300	93.54	0.86	94.40	Fundamenta	l Frequency	peak
4	*	2413.600	83.85	0.86	84.71	Fundamenta	l Frequency	AVG



Page: 60 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0								
Temperature:	25 ℃	Relative Humidity:	55%								
Test Voltage:	DC 5V	C 5V									
Ant. Pol.	Vertical	Vertical									
Test Mode:	TX N(HT20) Mode 2412MH	z ANT 1+2	J. Live								
Remark:	N/A	i mili	0 0								

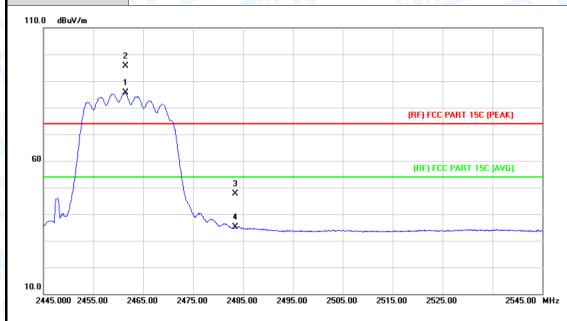


N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	51.28	0.77	52.05	74.00	-21.95	peak
2		2390.000	40.75	0.77	41.52	54.00	-12.48	AVG
3	X	2410.900	102.58	0.86	103.44	Fundamental	Frequency	peak
4	*	2411.300	94.34	0.86	95.20	Fundamental	Frequency	AVG



Page: 61 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MH	z ANT 1+2	3 100
Remark:	N/A		



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.400	84.52	1.07	85.59	Fundamental	Frequency	AVG
2	Χ	2461.500	94.47	1.07	95.54	Fundamental Frequency		peak
3		2483.500	46.39	1.17	47.56	74.00	-26.44	peak
4		2483.500	34.04	1.17	35.21	54.00	-18.79	AVG



Page: 62 of 96

EUT:			ME3	00RE	1.0	al	Mode	el:		ME300R	E 1.0	
Tempe	ratui	re:	25 °	C	100	30	Relat	ive Hur	nidity:	55%		
Test V	oltag	e:	DC 5	5V			30		1110			
Ant. P	ol.		Verti	cal	ابر	HAI			10		0.00	
Test M	ode:		TXN	\(HT20) Mod	de 2462M	Hz AN	Г 1+2		a W	The same	
Remar	k:		N/A	1679			1			19	_ (
110.0	dBuV/m											
60		× 2 × × × × × × × × × × × × × × × × × ×			3 × 4		· Neonomakhingan			PART 15C (PEAK)		
10.0 2448.	000 24!	58.00 2	468.00	2478.00	248	8.00 2 4 98.0	0 250	3.00 251	8.00 2528. 0	0 25	48.00 MHz	
No.	Mk.	Fre	eq.	Read Lev		Correct Factor		asure- ient	Limit	Over		
		MH	lz	dBu	IV	dB/m	dE	BuV/m	dBuV/m	dB	Detector	
	Х			405	20	1.07	10	6.33	Fundament	al Frequency	peak	
1	^	2461.	300	105.	26	1.07	- 10	0.55			-	
1	*	2461. 2461.		94.4		1.07		5.53		al Frequency	AVG	
			300		46		9				AVG peak	



Emission Level= Read Level+ Correct Factor

Report No.: TB-FCC149564

Page: 63 of 96

EUT:			ME3	00RE 1.	.0	3		Мо	del:		ME3	BOORE
Temp	eratu	e:	25 °C				6.18	Rel	ative Hui	nidity	y: 55%	, o
Test \	/oltag	e:	DC 5	SV.		P. W.	17					distribution of the same of th
Ant. F	Pol.		Horiz	zontal				CILL			1 11/1	VI.
Test N	Mode:		TX N	I(HT40)	Mod	le 2422N	ЛHz А	NT 1+	2		3	_ 6
Rema	ırk:		N/A						J W			8.0
110.0	dBuV/m											
									3 3 X O	, ,	i (
								1	(RF) F	CC PART	Y50/PEAK)	
60						_			(RF)	FCC PAF	RT 15C (AVG)	
~~					~~	1 X 2 X	\sim					\frac{1}{2}
10.0 234	4.000 23	54.00 2	2364.00	2374.00	2384	1.00 2394	.00 2	2404.00	2414.00 2	424.00	244	4.00 MHz
No). Mk.	Fre	ea.	Readi Leve		Corre		leasui ment		it	Over	
- 10		MH		dBu\		dB/m		dBuV/r	'		dB	Detector
1		2390.	000	46.7	8	0.77		47.55	5 74.	00	-26.45	peak
2		2390.	000	36.2	2	0.77		36.99	9 54.	00	-17.01	AVG
3	*	2418.	600	82.5	3	0.89		83.42	2 Funda	mental	Frequency	AVG
										Fundamental Frequency Fundamental Frequency		



Page: 64 of 96

THE PARTY OF THE P			THURS
EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MH	7 ANT 1+2	A HILL



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	56.78	0.77	57.55	74.00	-16.45	peak
2		2390.000	42.28	0.77	43.05	54.00	-10.95	AVG
3	Χ	2424.000	104.24	0.93	105.17	Fundamental	Frequency	peak
4	*	2424.000	92.91	0.93	93.84	Fundamental	Frequency	AVG



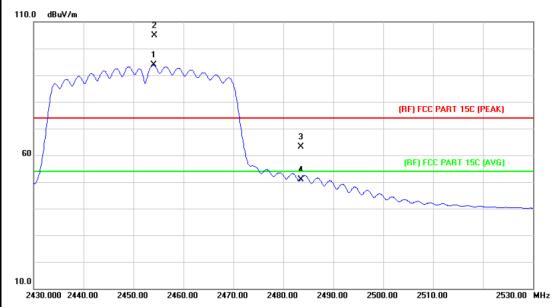
Page: 65 of 96

EUT:			ME3	00RE 1.0		Mod	del:		ME300R	E 1.0
Гетре	eratu	re:	25 °C	C GAI	1133	Rela	ative H	umidity:	55%	
Γest V	oltag	je:	DC 5	5V						
Ant. P	ol.		Horiz	zontal	a W	1		10		
Test Mode:			TXN	I(HT40) N	/lode 2452I	MHz AN	Γ1+2		a W	Maria
Rema	rk:		N/A	600		80 1		can:		
110.0	dBuV/π	1								
		····	\sim	1 × 2 ×						
	-	V V v .			V V			(RF) FCC F	PART 15C (PEAK)	
60										
						3		(RF) FCC	PART 15C (AVG)	
					<u></u>	4				
~							-			
10.0	.000 24	38.00 2	2448.00	2458.00	2468.00 247	78.00 248 -	8.00 24	98.00 2508.	00 25	28.00 MH
				D 11:						
No.	Mk	. Fre	∍q.	Readin Level	•		asure- nent	Limit	Over	
No.	Mk	. Fre	<u> </u>		•	or m		Limit dBuV/m		Detect
No.	Mk X		łz	Level	Fact dB/m	or m	nent	dBuV/m		Detect
1		MH	Hz 1600	Level dBuV	Fact dB/m	or m	nent BuV/m	dBuV/m	dB	
	X	MH 2453.	600 600	dBuV 94.69	Fact dB/m 1.04	or m	nent BuV/m 5.73	dBuV/m	dB al Frequency	pea



Page: 66 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	55%				
Test Voltage:	DC 5V					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT40) Mode 2452MHz ANT 1+2					
Remark:	N/A					



N	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	2454.000	92.73	1.04	93.77	Fundamenta	I Frequency	AVG
2		X	2454.200	103.96	1.04	105.00	Fundamenta	I Frequency	peak
3			2483.500	61.88	1.17	63.05	74.00	-10.95	peak
4			2483.500	49.82	1.17	50.99	54.00	-3.01	AVG

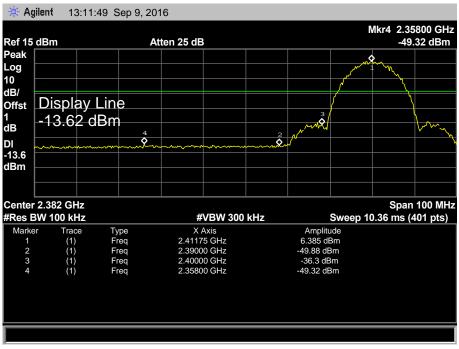


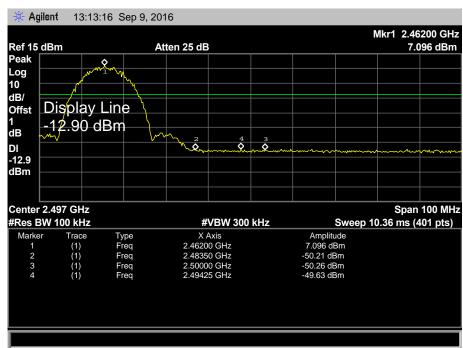


Page: 67 of 96

(2) Conducted Test

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	55%				
Test Voltage:	DC 5V	DC 5V				
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz ANT 1					
Remark:	The EUT is programed in co	The EUT is programed in continuously transmitting mode				



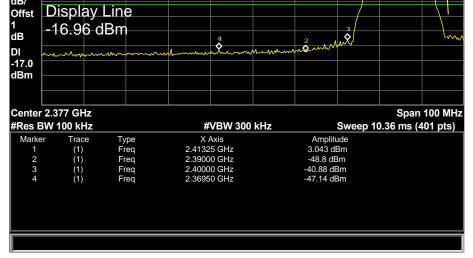


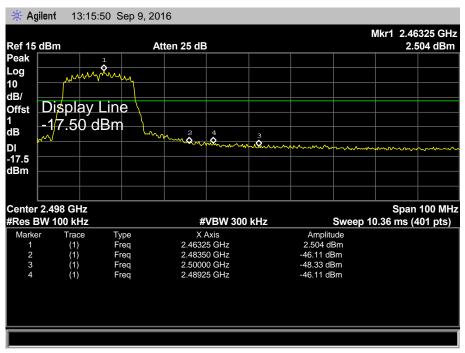




Page: 68 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 5V	COLUMN TO THE STATE OF THE STAT					
Test Mode:	TX G Mode 2412MHz / TX	TX G Mode 2412MHz / TX G Mode 2462MHz ANT 1					
Remark:	The EUT is programed in	continuously transmitting	mode				
* Agilent	13:14:37 Sep 9, 2016						
A rigiloni							
Ref 15 dBm	Atten 25 dB	Mkr1	2.41325 GHz 3.043 dBm				



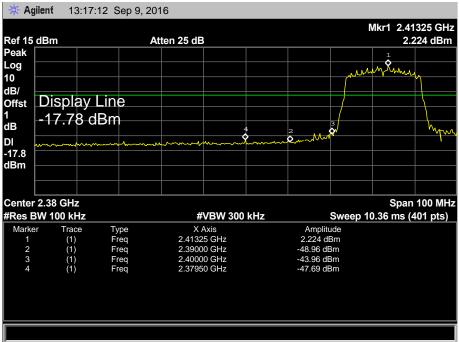


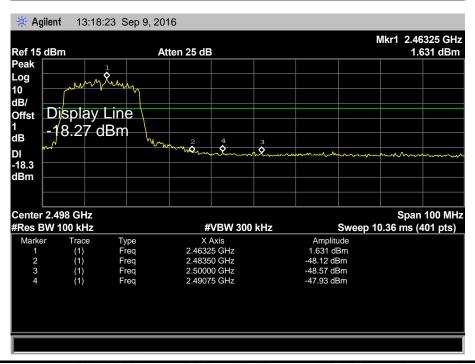




Page: 69 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 5V					
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT 1					
Remark:	The EUT is programed in continuously transmitting mode					





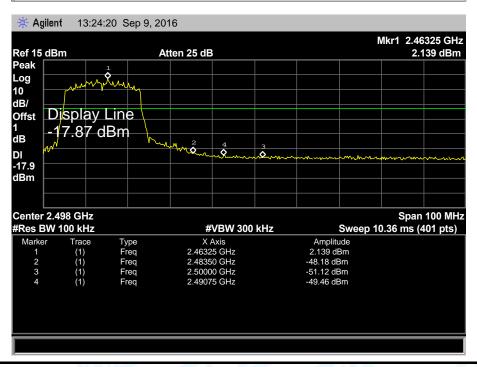




Page: 70 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 5V					
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT 2					
Remark:	The EUT is programed in continuously transmitting mode					

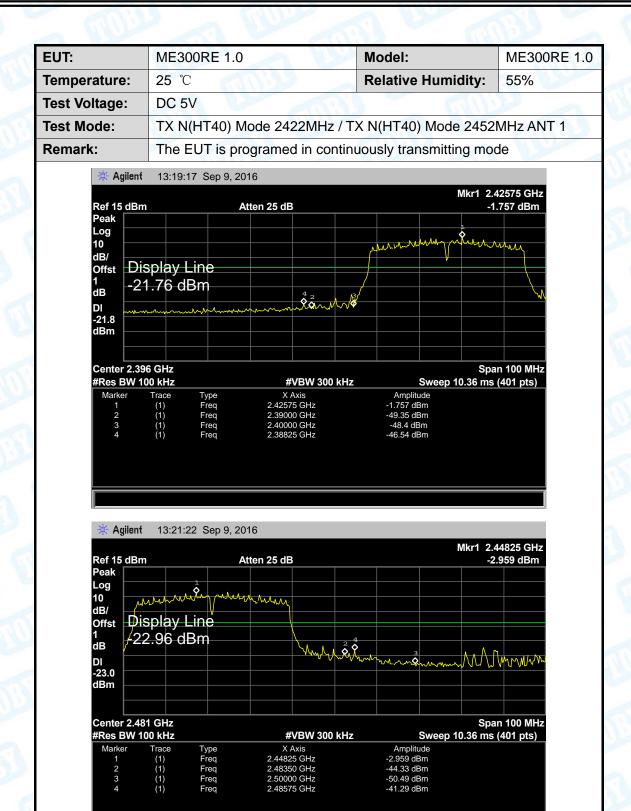








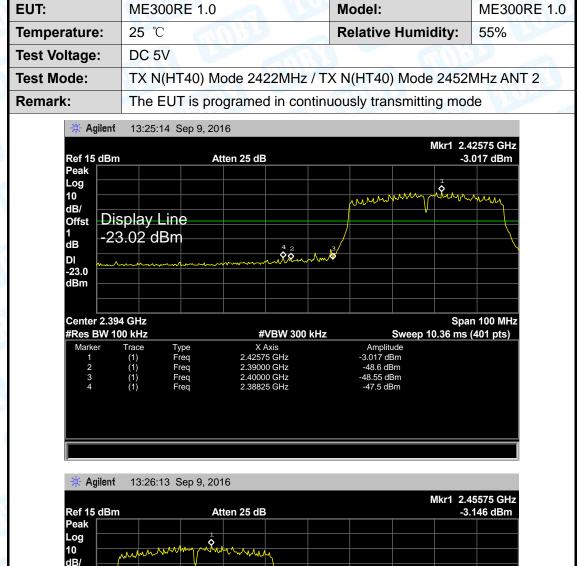
Page: 71 of 96







Page: 72 of 96





Page: 73 of 96

7. Bandwidth Test

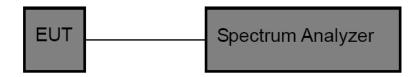
7.1 Test Standard and Limit

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

7.1.2 Test Limit

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

7.2 Test Setup



7.3 Test Procedure

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

7.4 EUT Operating Condition

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

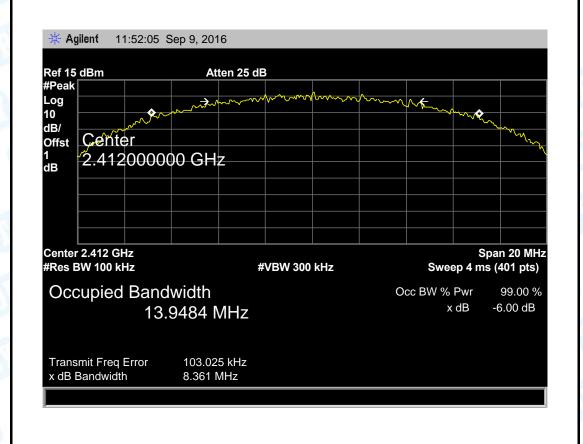


Page: 74 of 96

7.5 Test Data

EUT:	ME300RE 1.0	Model:	ME300RE 1.0
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 5V	1000	(MILLION)
Test Mode: TX 802.11B Mode ANT 1			
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz) (MHz) (MHz)		(MHz)
2412	2412 8.361		
2437 7.934		13.9369	>=0.5
2462	7.938	13.9324	
			*

802.11B Mode (Antenna 1)



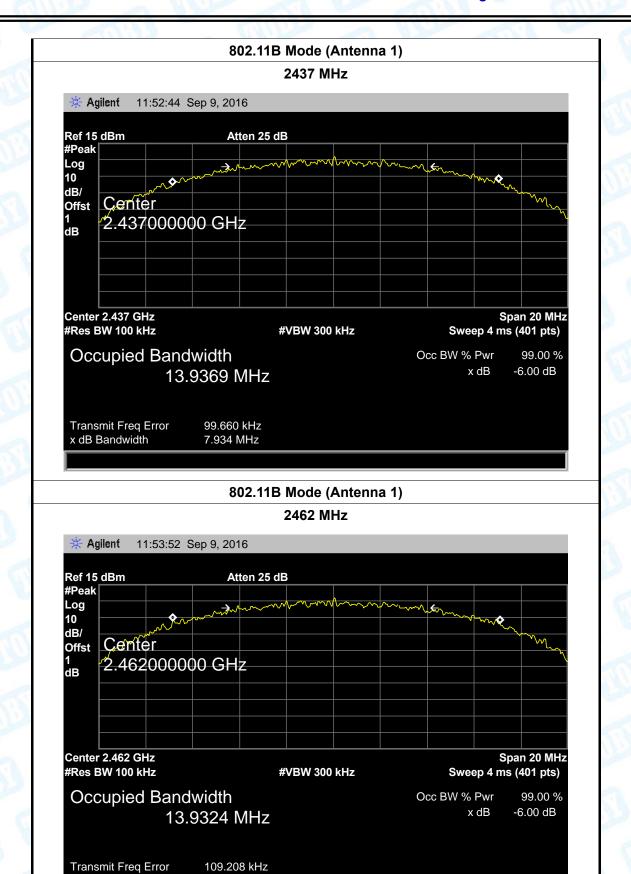


x dB Bandwidth

7.938 MHz

Report No.: TB-FCC149564

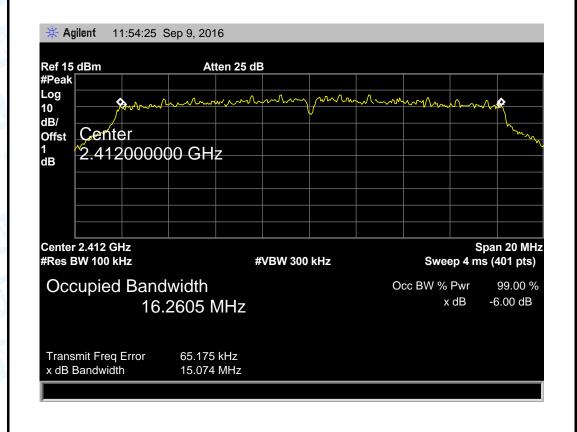
Page: 75 of 96





Page: 76 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	DC 5V				
Test Mode:	Test Mode: TX 802.11G Mode ANT 1				
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit		
(MHz)	(MHz) (MHz)		(MHz)		
2412	15.074	16.2605			
2437	15.122	16.2885	>=0.5		
2462	2462 15.114 16.2782				
802.11G Mode (Antenna 1)					





Transmit Freq Error

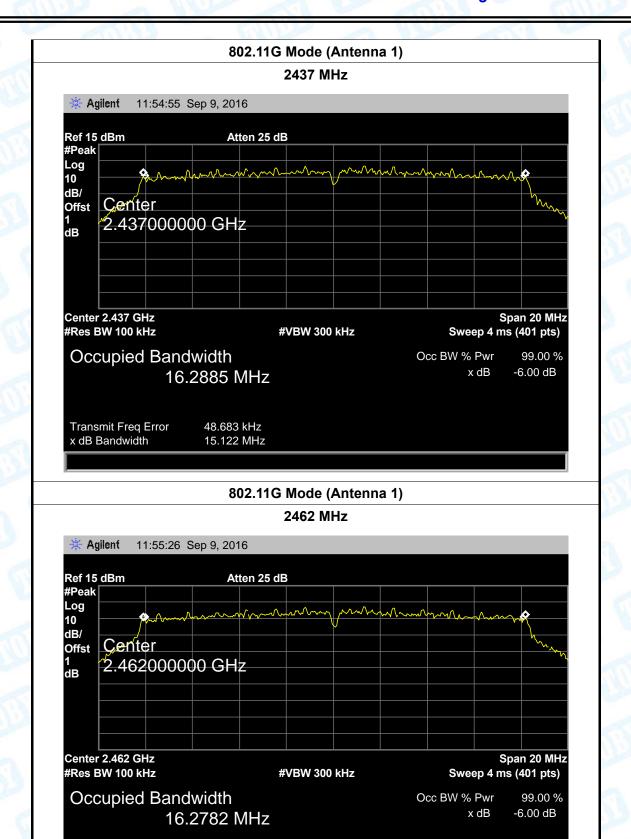
x dB Bandwidth

61.462 kHz

15.114 MHz

Report No.: TB-FCC149564

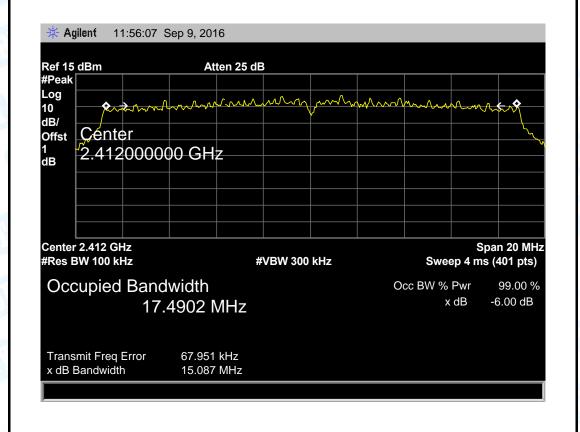
Page: 77 of 96





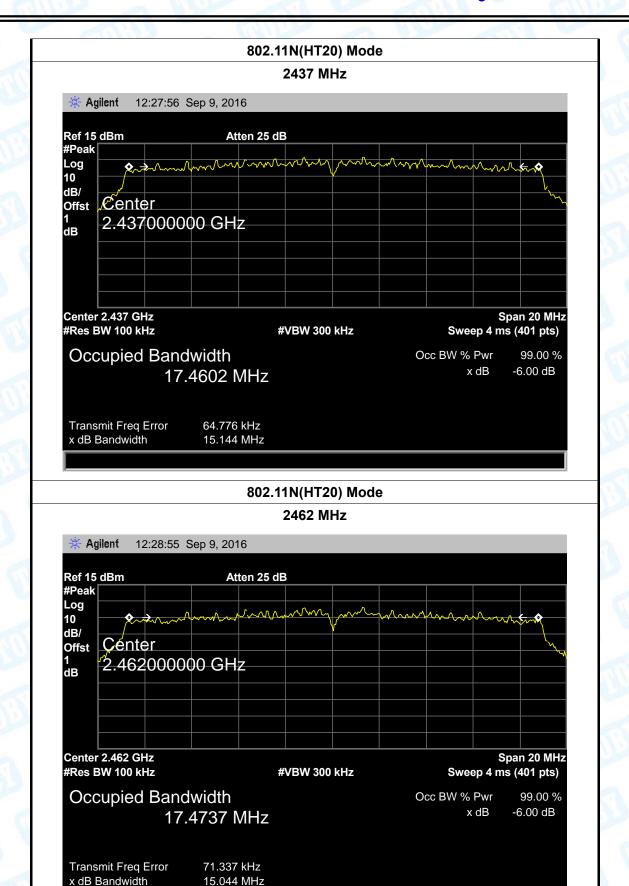
Page: 78 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	DC 5V				
Test Mode:	Test Mode: TX 802.11N(HT20) Mode ANT 1				
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	15.087	17.4902			
2437	15.144	17.4602	>=0.5		
2462	15.044	17.4737			
802.11N(HT20) Mode (Antenna 1)					





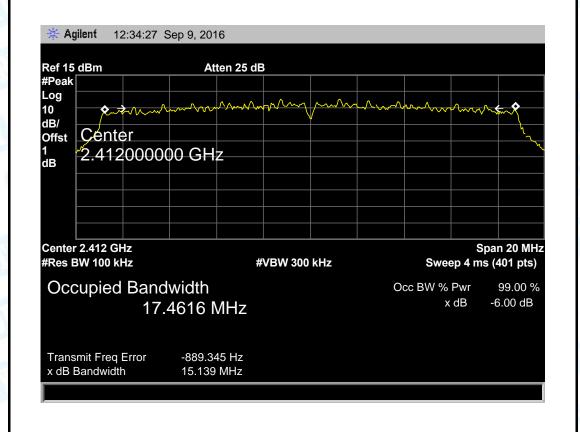
Page: 79 of 96





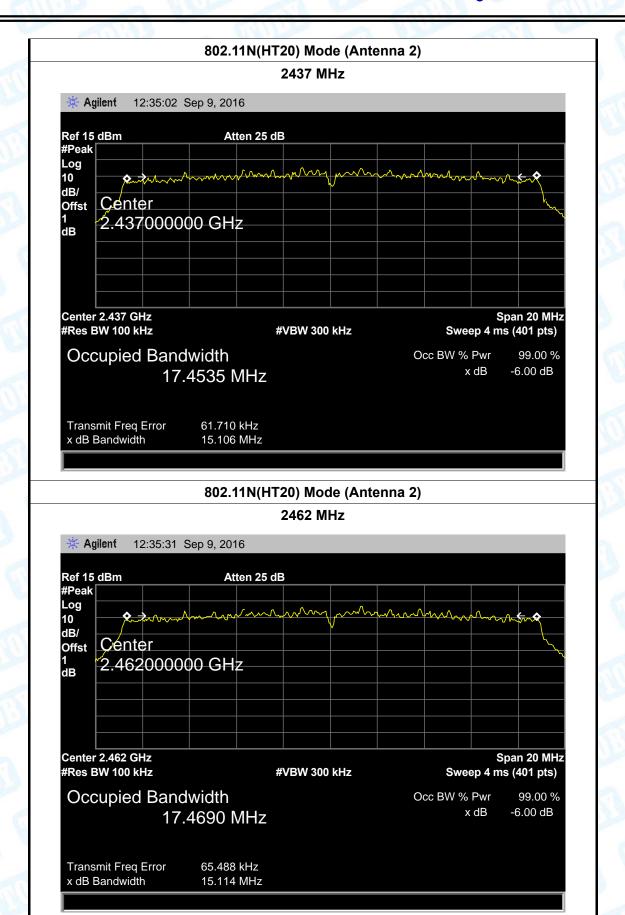
Page: 80 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 5V					
Test Mode: TX 802.11N(HT20) Mode ANT 2						
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2412	15.139	17.4616				
2437	15.106	17.4535	>=0.5			
2462 15.114		17.4690				
	802.11N(HT20) Mode (Antenna 2)					





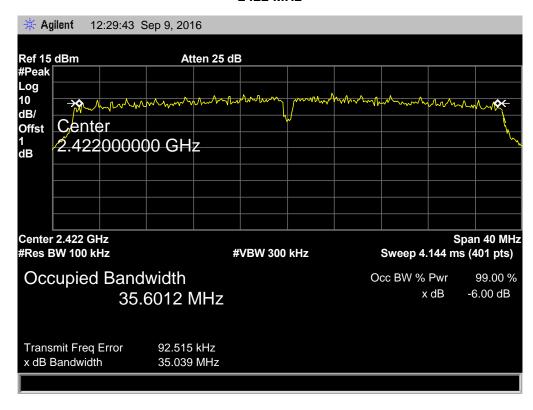
Page: 81 of 96





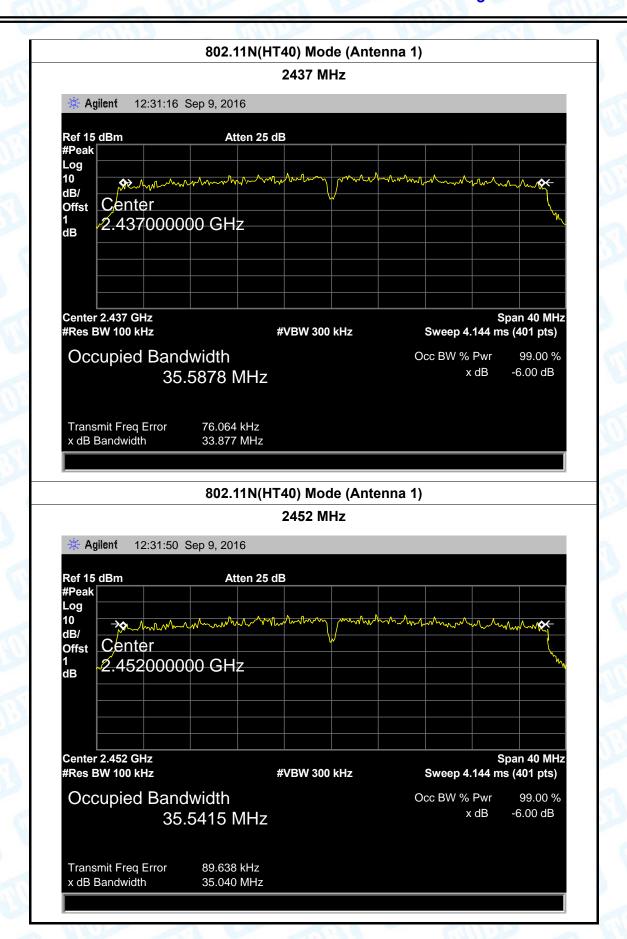
Page: 82 of 96

EUT:	ME300RE 1.0 Model:		ME300RE 1.0	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	DC 5V	DC 5V		
Test Mode:	TX 802.11N(HT40) Mode	e ANT 1		
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2422	35.039	35.9976		
2437	33.877	36.0040	>=0.5	
2452	35.040	35.9971		
	802.11N(HT20) N	Mode (Antenna 1)		
	2422	2 MHz		





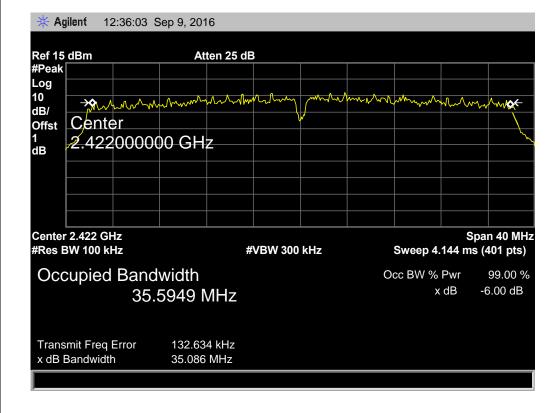
Page: 83 of 96





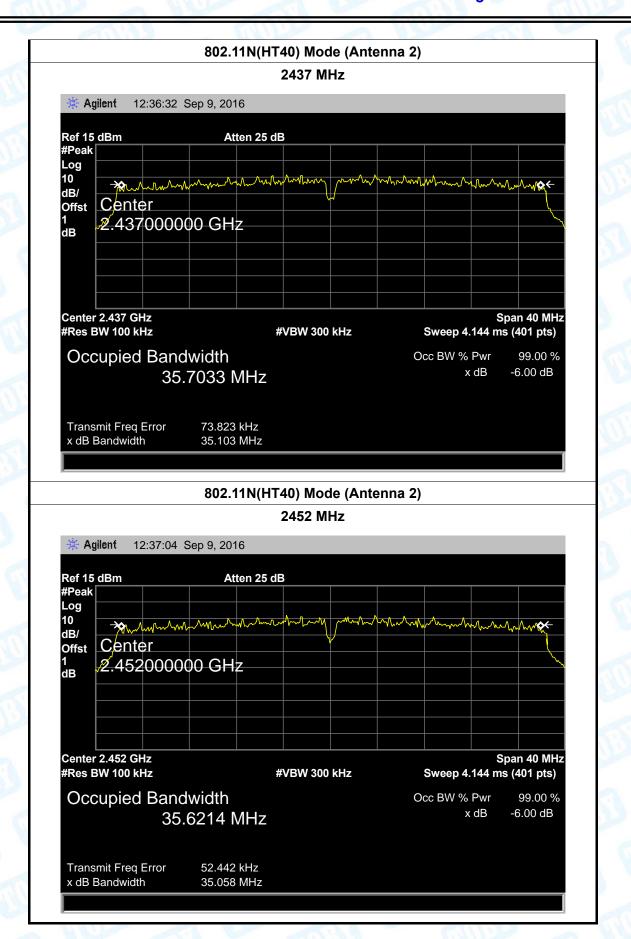
Page: 84 of 96

EUT:	ME300RE 1.0	Model:	ME300RE 1.0			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 5V					
Test Mode: TX 802.11N(HT40) Mode ANT 2						
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2422	35.086	35.5949				
2437	35.103	35.7033	>=0.5			
2452 35.058		35.6214				
	802.11N(HT20) Mode (Antenna 2)					
0.400 MH						





Page: 85 of 96





Page: 86 of 96

8. Peak Output Power Test

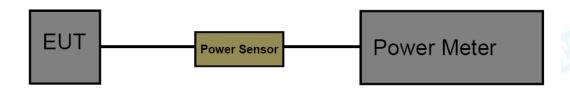
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

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

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v03r05.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

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



Page: 87 of 96

8.5 Test Data

EUT:	ME30	ORE 1.0	RE 1.0 Model Name : ME300			ME300F	RE 1.0	
Temperature	: 25 °C	2.1		Relati	ve Humidity:	55%		
Test Voltage:	: DC 5\	1					11:353	
Test Mode:	TX 80	2.11 b/g M	ode				STORY.	
				Test D	ata			
Test Mode	Frequency (MHz)	ANT 1 (dBm)	ANT 2 (dBm)	Duty Factor (dB)	ANT 1 Power (dBm)	ANT 2 Power (dBm)	Limit (dBm)	
	2412	22.09	21.86	0	22.09	21.86		
802.11b	2437	22.19	21.63	0	22.19	21.63		
	2462	22.13	21.59	0	22.13	21.59	20	
	2412	21.87	21.34	0	21.87	21.34	30	
802.11g	2437	21.88	21.30	0	21.88	21.30		
	2462	21.94	21.37	0	21.94	21.37	1	
		•	Res	ult: PASS	5			

EUT:	ME300R	RE 1.0 Model Name :			ME300F	RE 1.0	
Temperature	: 25 °C		Relative Humidity: 55%			55%	1
Test Voltage:	: DC 5V			41198		HAR	
Test Mode:	TX 802.1	1 n(HT20)/n	(HT40) Mod	de	6310		CHILD
	Fraguanay			Test Data			Limit
Test Mode	Frequency (MHz)	ANT 1	ANT 2	Duty Factor	Total P	ower	(dBm)
	(IVITIZ)	(dBm)	(dBm)	(dB)	(dB	m)	(ubiii)
000 44	2412	19.03	18.34	0	21.	71	
802.11n (HT20)	2437	19.11	18.37	0	21.	1.77	
(1120)	2462	19.24	18.41	0	21.	86	20.20
	2422	19.08	18.43	0	21.	78	28.39
802.11n	2437	19.12	18.22	0	21.	70	
(HT40)	2452	19.17	18.24	0	21.	74	
	I	I	Result:	PASS			

Note: When ANT1 and ANT2 transmitting simultaneously, the total Antenna Gain=Gain 1+Gani 2=7.61dBi> 6 dBi.

So P_{out} =P_{limit}-(G_{TX}-6)]=30-1.61=28.39



Page: 88 of 96

9. Power Spectral Density Test

9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

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

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r05.

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

9.4 EUT Operating Condition

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



Page: 89 of 96

9.5 Test Data

CUT.	MEGOODI	E 1.0 Model Name : ME300RE		ODE 4.0		
EUT:	ME300RE	= 1.0	Model	name :	ME300	URE 1.0
Temperature	25 ℃		Relativ	ve Humidit	y : 55%	
Test Voltage:	DC 5V	M. D.		MAIL		C. C.
			Test	Data		
	Eroguonev			Dut	Total	Limit

Test Mode	Frequency (MHz)	Test Data				
		ANT 1 (dBm)	ANT 2 (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11b	2412	-7.623		0	-7.623	8
	2437	-8.745		0	-8.745	
	2462	-8.526		0	-8.526	
802.11g	2412	-13.43		0	-13.43	
	2437	-13.90		0	-13.90	
	2462	-14.05		0	-14.05	
802.11n (HT20)	2412	-14.56	-16.49	0	-12.41	6.39
	2437	-15.32	-15.82	0	-12.55	
	2462	-15.34	-14.17	0	-11.71	
802.11n (HT40)	2422	-19.80	-20.87	0	-17.29	
	2437	-19.97	-20.27	0	-17.11	
	2462	-19.82	-21.04	0	-17.38	

Result: PASS

Note: When ANT1 and ANT2 transmitting simultaneously, the total Antenna Gain=Gain 1+Gani 2=7.61 dBi> 6 dBi.

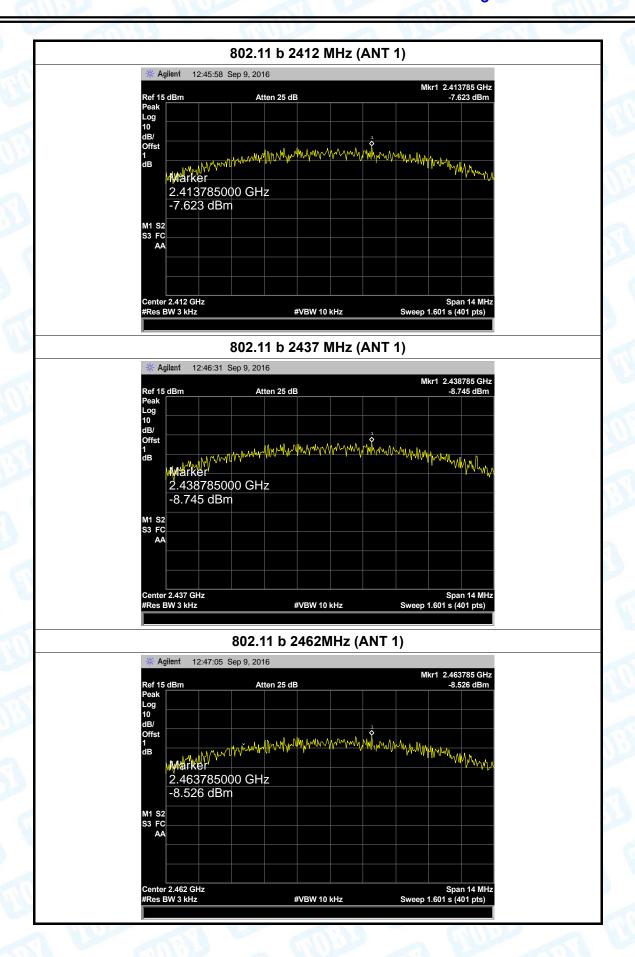
So P_{out} =P_{limit}-(G_{TX}-6)]=8-1.61=6.39

Test plots please refer to below pages:





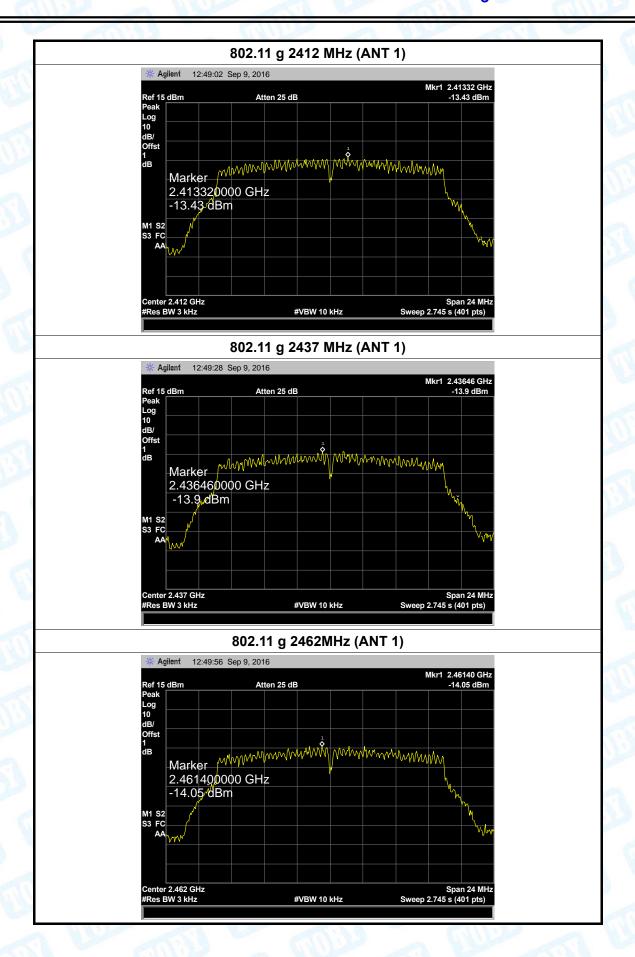
Page: 90 of 96







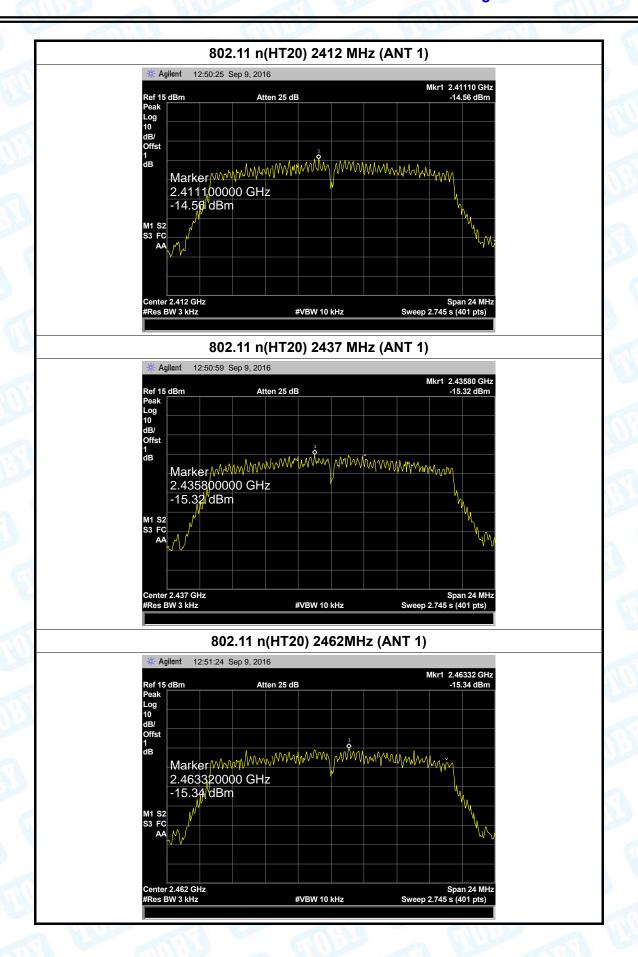
Page: 91 of 96







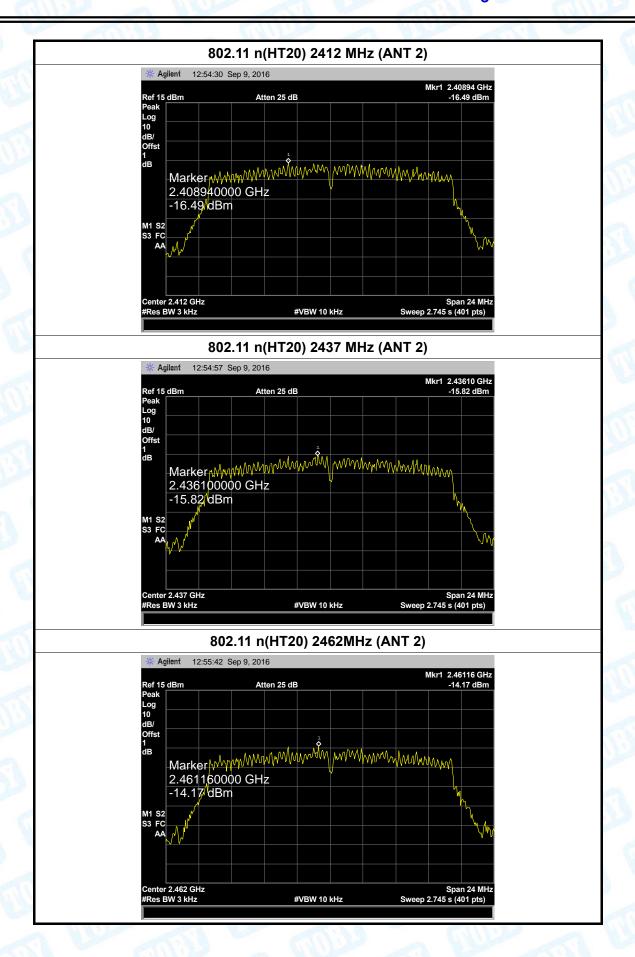
Page: 92 of 96







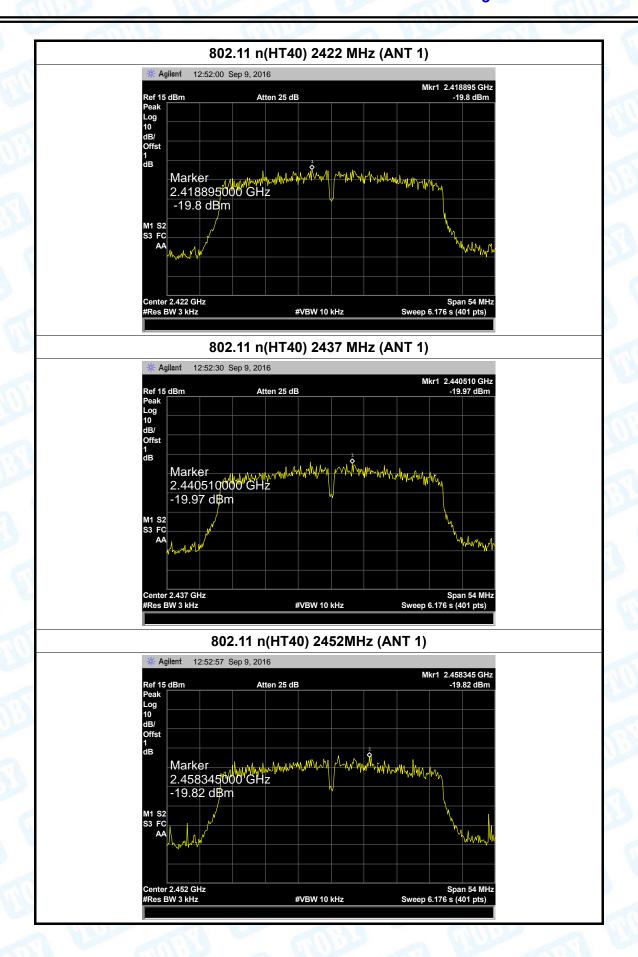
Page: 93 of 96







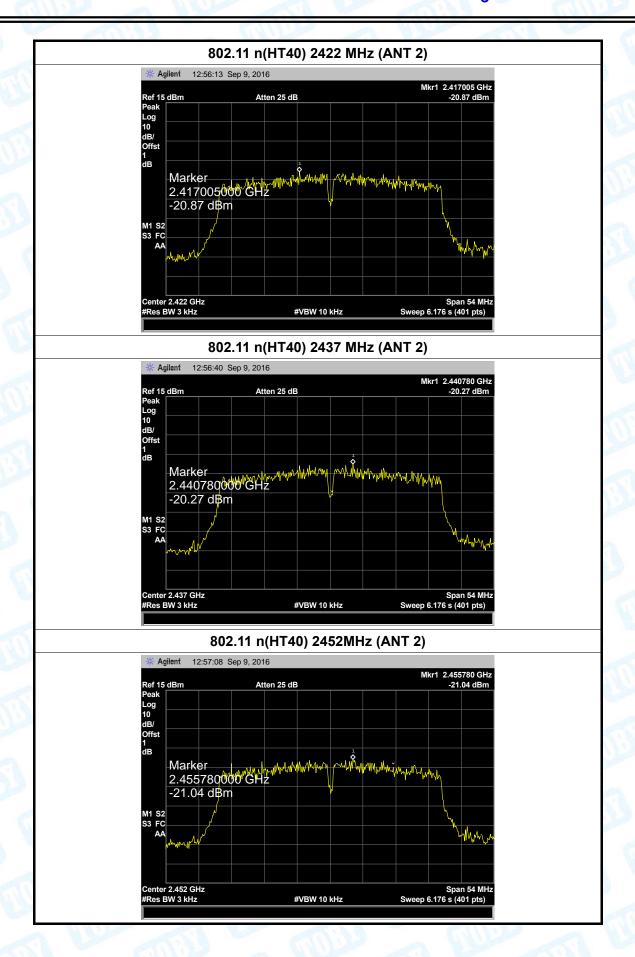
Page: 94 of 96







Page: 95 of 96





Page: 96 of 96

10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 4.6 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

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

Antenna Type				
	▶ Permanent attached antenna			
On.	□ Unique connector antenna			
	□ Professional installation antenna			