FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Jiangmen Dascom Computer Peripherals Co., Ltd.

portable receipt and form printer

Model Number: DP-581

Additional Model: DP-581a, DP-581b, DP-581c, I-820

FCC ID: Z7ODP581A

Prepared for:	Jiangmen Dascom Computer Peripherals Co., Ltd.				
	No 399, Jin Xing Road, Jiang Hai District, Jiangmen City,				
	Guang Dong Province, China				
Prepared By:	EST Technology Co., Ltd.				
	San Tun Management Zone, Houjie District, Dongguan, China				
Tel: 86-769-83081888-808					

Report Number:	ESTE-R1709080	
Date of Test:	June 27~July 09, 2017	
Date of Report:	July 10, 2017	



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EST Technology Co., Ltd.

Applicant: Address:	Jiangmen Dascom Computer Peripherals Co., Ltd. No 399, Jin Xing Road, Jiang Hai District, Jiangmen City, Guang Dong Province, China				
Manufacturer: Address:	Jiangmen Dascom Computer Peripherals Co., Ltd. No 399, Jin Xing Road, Jiang Hai District, Jiangmen City, Guang Dong Province, China				
E.U.T:	portable receipt and form printer				
Model Number:	DP-581				
Additional Model:	DP-581a, DP-581b, DP-581c, I-820 (Except for the trademark and model name, the rest is exactly the same.)				
Power Supply:	DC 11.1V From Battery DC 19V From Adapter Input AC 100-240V, 50/60Hz				
Test Voltage:	DC 19V From Adapter Input AC 120V/60Hz and AC 240V/60Hz				
Trade Name:	Tally/DASCOM, DASCOM, PRINTEK Serial No.:				
Date of Receipt:	June 27, 2017 Date of Test: June 27~July 09, 2017				
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013				
Test Result:	The device described above is tested by EST Technology Co., Ltd The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.				
	This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.				
Prepared by:	Date: July 10, 2017 Reviewed by: Approved by:				
	EST				
Amy / Assistant	Tony / Engineer Icerrian Hu / Manager				
Other Aspects: None.	inthos.				
Abbreviations: OK/P=pass	d fail/F=failed n.a/N=not applicable E.U.T=equipment under tested				
This test report is based on duplicated in extracts with	a single evaluation of one sample of above mentioned products ,It is not permitted to be ut written approval of EST Technology Co., Ltd.				

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	portable receipt and form printer
Model Number	:	DP-581
FCC ID	:	Z7ODP581A
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2462 MHz IEEE 802.11n HT20 : 2412 ~ 2462 MHz IEEE 802.11n HT40: 2422 ~ 2452 MHz
Number of channel	:	IEEE 802.11b 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT40 2422 ~ 2452 MHz: 7 Channels
Antenna	:	Internal antenna, -3.288 dBi gain
Sample Type	:	Prototype production



2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
	FCC Part 15: 15.207	PASS
Power Line Conducted Emission	ANSI C63.10:2013	
	FCC Part 15: 15.209	
Radiated Emission	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Band Edge Compliance	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Conducted spurious emissions	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
6dB Bandwidth	ndwidth ANSI C63.10:2013	
	KDB 558074	
	FCC Part 15: 15.247	
Peak Output Power	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Power Spectral Density	ANSI C63.10:2013	PASS
	KDB 558074	
Antenna requirement	FCC Part 15: 15.203	PASS
V V V D 550054 D01 DTG 14 G 1	1 04	

Note: KDB 558074 D01 DTS Meas Guidance v04



2.2. Test Facilities

EMC Lab	Τ.	Contificated by CNAS CHINA
EMC Lab	:	Certificated by CNAS, CHINA
		Registration No.: L5288
		Date of registration: November 13, 2014
		Certificated by FCC, USA
		Registration No.: 989591
		Date of registration: November 15, 2016
		Certificated by Industry Canada
		Registration No.: 9405A-1
		Date of registration: December 30, 2015
		Certificated by VCCI, Japan
		Registration No.: R-3663 & C-4103
		Date of registration: July 25, 2014
		Certificated by TUV Rheinland, Germany
		Registration No.: UA 50195514 0001
		Date of registration: February 07, 2015
		Certificated by TUV/PS, Shenzhen
		Registration No.: SCN1017
		Date of registration: January 27, 2011
		Certificated by Intertek ETL SEMKO
		Registration No.: 2011-RTL-L1-18
		Date of registration: April 28, 2011
		Certificated by Siemic, Inc.
		Registration No.: SLCN021
		Date of registration: November 8, 2011
		Certificated by Nemko, Hong Kong
		Registration No.: 175193
		Date of registration: May 4, 2011
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	San Tun Management Zone, Houjie Town, Dongguan,
		Guangdong, China



2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test	±4.56 dB(Polarize: H)
(30MHz-1GHz)	±4.78 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 18GHz)	±4.46dB
Uncertainty for radio frequency	7×10 ⁻⁸
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

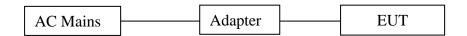
2.4. Assistant equipment used for test

2.4.1. Adapter

M/N	:	GS90A19
Manufacturer	:	MEAN WELL ENTERPRLSES CO., LTD
Input	:	AC 100-240V, 50/60Hz, 2.0A
Output	:	19V 4.74A, 90W MAX

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into Wi-Fi test mode by software before test.



(EUT: portable receipt and form printer)



2.6. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower	Center	Upper
	channel	channel	channel
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Transmitting			
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Receiving			
IEEE 802.11n HT40 Transmitting	2422MHz	2437MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

2.7. Channel List

IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20							
Cl. 1	Frequency	Cl. 1	Frequency	Channel	Frequency		
Channel	(MHz)	Channel	(MHz)		(MHz)		
1	2412	6	2437	11	2462		
2	2417	7	2442				
3	2422	8	2447				
4	2427	9	2452				
5	2432	10	2457				
IEEE 802.11n HT40							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
Chamiei	(MHz)	Chamiei	(MHz)	Chamiei	(MHz)		
3	2422	6	2437	9	2452		
4	2427	7	2442				
5	2432	8	2447				

2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 17,17	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 17,17	1 Year

2.8.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 17,17	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 08,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

2.8.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 08,17	1 Year
Signal Amplifier	Agilent	310N	187037	June 17,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

2.8.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June 08,17	1 Year
Board-Band Horn	SCHWARZBECK	DDUA 0170	9170-497	June 08,17	1Year
Antenna	SCHWARZDECK	DDNA 9170	9170-497	Julie 08,17	1 Ieai
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 17,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 17,17	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 17,17	1 Year



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3 POWER LINE CONDUCTED EMISSION TEST

3.1. Limit

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

3.2. Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

3.3. Test Result

PASS.

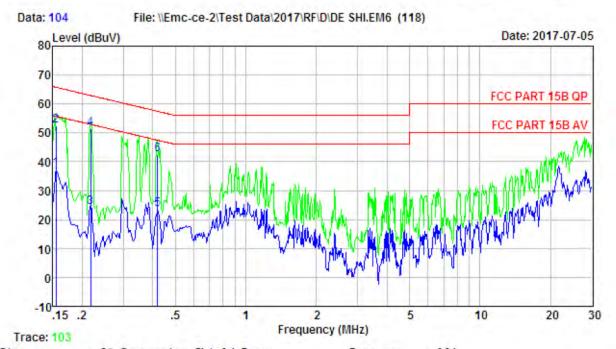


^{2.} The lower limit shall apply at the transition frequencies.

3.4. Test data

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Site no : 2# Contuction Shield Room Data no. : 104 Env. / Ins. : Temp:24.8'C Humi:53.8% Press:101.50kPaINE Phase : LINE

Limit : FCC PART 15B QP

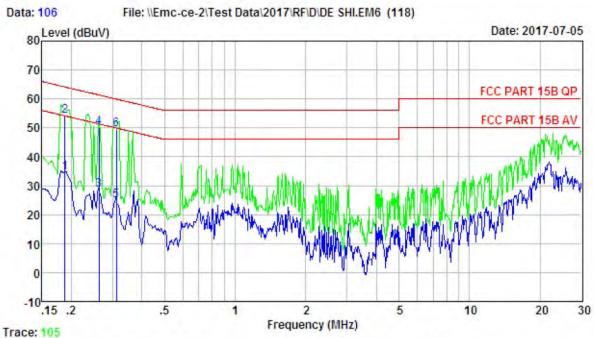
Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.51	0.04	27.99	37.54	55.74	18.20	Average
2	0.15	9.51	0.04	42.85	52.40	65,74	13.34	QP
3	0.22	9.55	0.04	14.67	24.26	52.92	28.66	Average
4	0.22	9.55	0.04	41.81	51.40	62.92	11.52	QP
5	0.42	9.53	0.05	14.04	23.62	47.46	23.84	Average
6	0.42	9.53	0.05	32.82	42.40	57.46	15.06	QP



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Site no : 2# Contuction Shield Room Data no. : 106 Env. / Ins. : Temp:24.8'C Humi:53.8% Press:101.50kPaINE Phase : NEUTRAL

Limit : FCC PART 15B QP

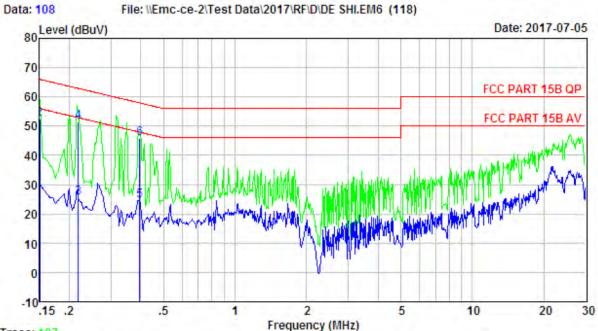
Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.50	0.04	25.12	34.66	54.15	19.49	Average
2	0.19	9.50	0.04	44.66	54.20	64.15	9.95	QP
3	0.26	9.51	0.04	19.02	28.57	51.34	22.77	Average
4	0.26	9.51	0.04	40.55	50.10	61.34	11.24	QP
5	0.31	9.52	0.04	15.45	25.01	49.93	24.92	Average
6	0.31	9.52	0.04	40.04	49.60	59.93	10.33	QP

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Fax:+86-769-83081878



Trace: 107

Site no : 2# Contuction Shield Room Data no. : 108
Env. / Ins. : Temp:24.8'C Humi:53.8% Press:101.50kPaINE Phase : NEUTRAL

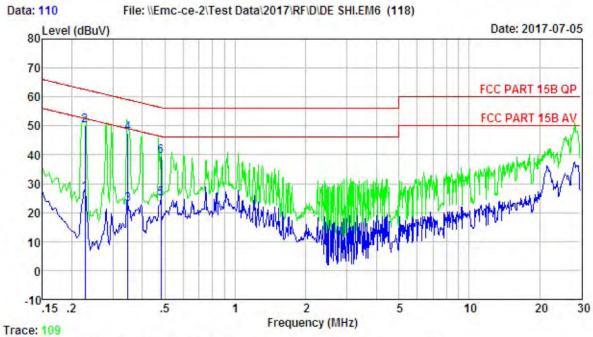
Limit : FCC PART 15B QP

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 240V/60Hz

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.73	0.04	20.54	30.31	56.00	25.69	Average
2	0.15	9.73	0.04	42.63	52.40	66.00	13.60	QP
3	0.22	9.51	0.04	16.02	25.57	52.88	27.31	Average
4	0.22	9.51	0.04	41.85	51.40	62.88	11.48	QP
5	0.40	9.54	0.05	15.02	24.61	47.95	23.34	Average
6	0.40	9.54	0.05	36.31	45.90	57.95	12.05	QP

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Site no : 2# Contuction Shield Room Data no. : 110 Env. / Ins. : Temp:24.8'C Humi:53.8% Press:101.50kPaINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 240V/60Hz

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.23	9.55	0.04	17.19	26.78	52.52	25.74	Average
2	0.23	9.55	0.04	40.61	50.20	62.52	12.32	QP
3	0.35	9.54	0.05	13.33	22.92	49.05	26.13	Average
4	0.35	9.54	0.05	38.01	47.60	59.05	11.45	QP
5	0.48	9.53	0.05	15.22	24.80	46.32	21.52	Average
6	0.48	9.53	0.05	30.02	39.60	56.32	16.72	QP

4 RADIATED EMISSION TEST

4.1 Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark : (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

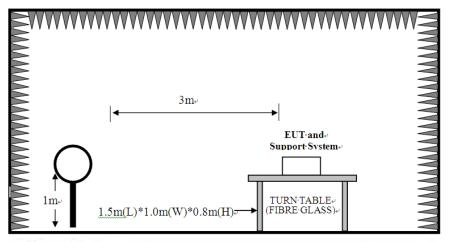


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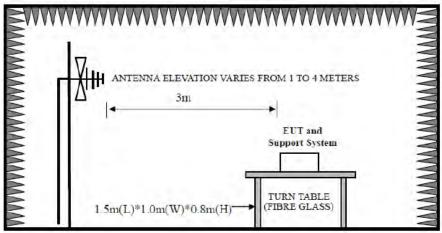
Report No. ESTE-R1709080

4.2. Block Diagram of Test setup

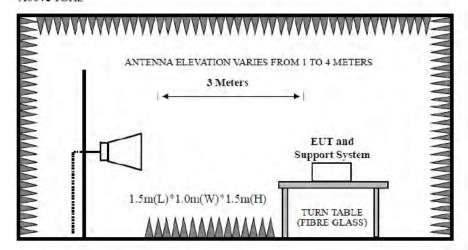
9kHz~30MHz



30~1000MHz



Above 1GHz





4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

PASS.

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2412MHz . 2422MHz . 2437 MHz . 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

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4.5. Test Data

9 kHz – 30 MHz

Pass

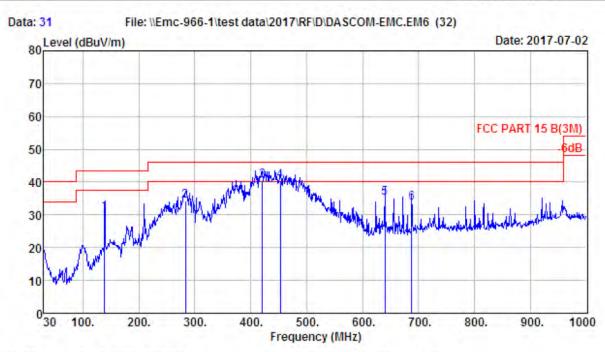
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



30-1000 MHz

EST Technology

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Site no : 1# 966 Chamber Data no. : 31

Env. / Ins. : Temp:28.1'; Humi:56%; Press:101.52kPa LINE Phase : HORIZONTAL

Limit : FCC PART 15 B (3M)

Engineer : Seven

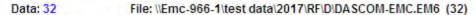
EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

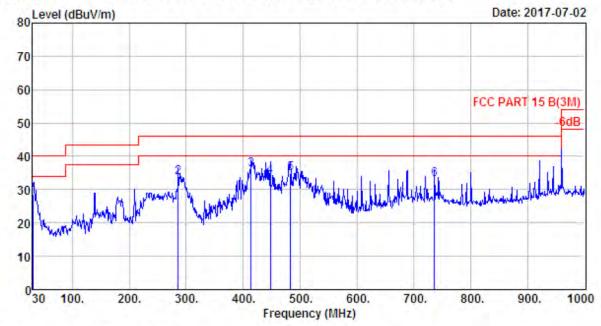
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	138.640	11.42	1.54	17.85	30.81	43.50	12.69	QP
2	283.170	12.48	2.35	19.45	34.28	46.00	11.72	QP
3	420.910	16.28	2.72	21.47	40.47	46.00	5.53	QP
4	452.920	16.58	2.97	21.00	40.55	46.00	5.45	QP
5	640.130	20.01	3,59	11.67	35.27	46.00	10.73	QP
6	687.660	20.35	3.63	9.68	33.66	46.00	12.34	QP



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Fax:+86-769-83081878





Site no : 1# 966 Chamber Data no. : 32

Env. / Ins. : Temp:28.1'; Humi:56%; Press:101.52kPa LINE Phase : VERTICAL

Limit : FCC PART 15 B (3M)

Engineer : Seven

EUT ; portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

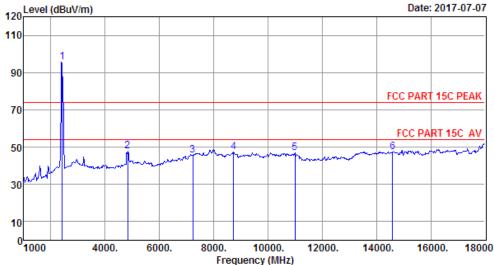
	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.970	17.72	0.67	10.13	28.52	40.00	11.48	QP
2	286.080	12.59	2.32	18.68	33.59	46.00	12.41	QP
3	414.120	16.29	2.71	16.98	35.98	46.00	10.02	QP
4	448.000	16.43	2.96	14.50	33.89	46.00	12.11	QP
5	482.990	17.56	3.07	14.31	34.94	46.00	11.06	QP
6	736.160	22.28	3.78	6.86	32.92	46.00	13.08	QP

1000-18000 MHz

EST Technology

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Data: 259 File: \\Emc-966-1\\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 259
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH1 2412TX

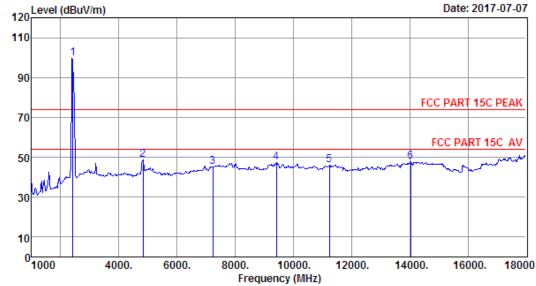
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	27.25	88.75	95.74	74.00	-21.74	Peak
2	4824.00	31.28	11.84	26.92	31.44	47.64	74.00	26.36	Peak
3	7236.00	36.53	11.55	25.78	23.45	45.75	74.00	28.25	Peak
4	8735.00	37.40	11.45	25.27	23.59	47.17	74.00	26.83	Peak
5	10996.00	39.52	11.29	24.88	20.97	46.90	74.00	27.10	Peak
6	14600.00	41.59	10.92	24.09	19.02	47.44	74.00	26.56	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 260
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH1 2412TX

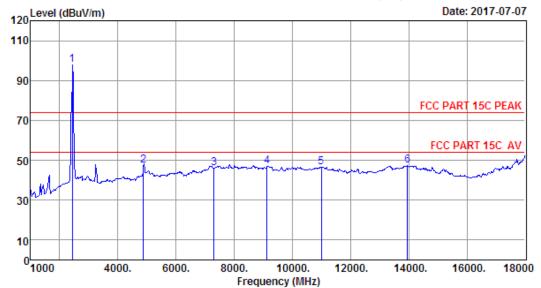
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	27.25	92.54	99.53	74.00	-25.53	Peak
2	4824.00	31.28	11.84	26.92	32.65	48.85	74.00	25.15	Peak
3	7236.00	36.53	11.55	25.78	22.80	45.10	74.00	28.90	Peak
4	9415.00	38.07	11.67	25.15	22.76	47.35	74.00	26.65	Peak
5	11234.00	39.37	11.12	24.84	20.28	45.93	74.00	28.07	Peak
6	14039.00	41.49	10.90	24.22	19.56	47.73	74.00	26.27	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 261
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH6 2437TX

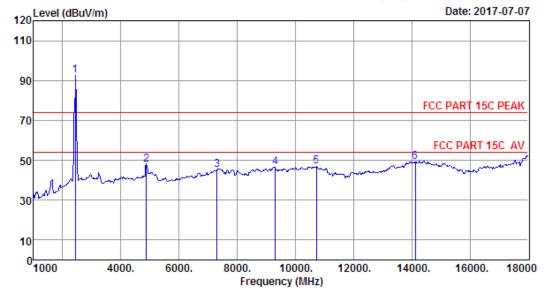
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	27.24	90.90	97.93	74.00	-23.93	Peak
2	4874.00	31.37	12.07	26.92	31.04	47.56	74.00	26.44	Peak
3	7311.00	36.55	11.57	25.75	23.48	45.85	74.00	28.15	Peak
4	9126.00	37.62	11.52	25.20	22.90	46.84	74.00	27.16	Peak
5	10996.00	39.52	11.29	24.88	20.73	46.66	74.00	27.34	Peak
6	13954.00	41.35	10.96	24.24	19.31	47.38	74.00	26.62	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 262 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 262
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH6 2437TX

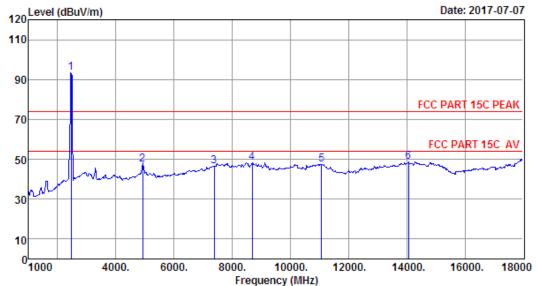
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	27.24	85.38	92.41	74.00	-18.41	Peak
2	4874.00	31.37	12.07	26.92	31.21	47.73	74.00	26.27	Peak
3	7311.00	36.55	11.57	25.75	22.70	45.07	74.00	28.93	Peak
4	9313.00	37.94	11.62	25.17	22.27	46.66	74.00	27.34	Peak
5	10724.00	39.22	11.30	24.92	21.21	46.81	74.00	27.19	Peak
6	14124.00	41.57	10.91	24.20	21.01	49.29	74.00	24.71	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 263 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 263
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH11 2462TX

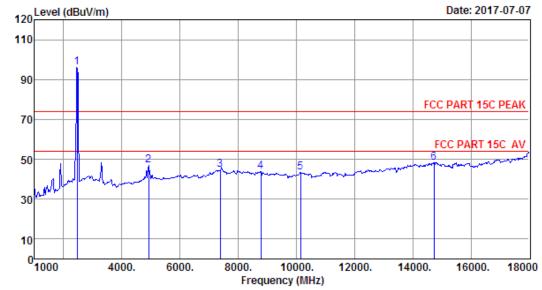
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	27.24	86.50	93.53	74.00	-19.53	Peak
2	4924.00	31.45	12.29	26.91	30.37	47.20	74.00	26.80	Peak
3	7386.00	36.57	11.59	25.71	24.02	46.47	74.00	27.53	Peak
4	8684.00	37.32	11.45	25.28	24.92	48.41	74.00	25.59	Peak
5	11064.00	39.48	11.24	24.86	21.65	47.51	74.00	26.49	Peak
6	14056.00	41.51	10.90	24.22	20.44	48.63	74.00	25.37	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 264
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH11 2462TX

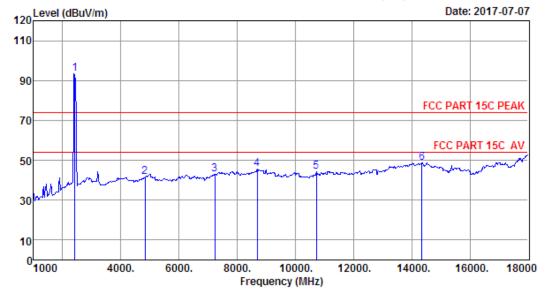
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	27.24	88.86	95.89	74.00	-21.89	Peak
2	4924.00	31.45	12.29	26.91	30.19	47.02	74.00	26.98	Peak
3	7386.00	36.57	11.59	25.71	22.28	44.73	74.00	29.27	Peak
4	8786.00	37.48	11.46	25.26	20.20	43.88	74.00	30.12	Peak
5	10146.00	38.36	11.51	25.03	18.70	43.54	74.00	30.46	Peak
6	14736.00	41.12	10.90	24.06	20.34	48.30	74.00	25.70	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 265
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH1 2412TX

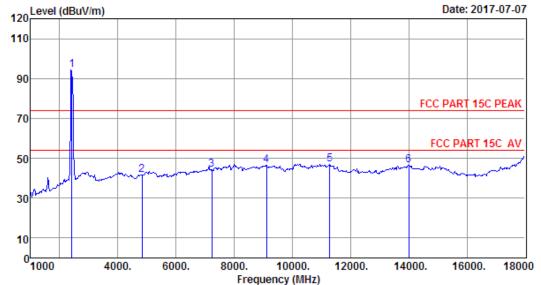
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	27.25	86.39	93.38	74.00	-19.38	Peak
2	4824.00	31.28	11.84	26.92	25.30	41.50	74.00	32.50	Peak
3	7236.00	36.53	11.55	25.78	20.63	42.93	74.00	31.07	Peak
4	8684.00	37.32	11.45	25.28	22.19	45.68	74.00	28.32	Peak
5	10724.00	39.22	11.30	24.92	18.78	44.38	74.00	29.62	Peak
6	14345.00	41.76	10.92	24.15	20.30	48.83	74.00	25.17	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 266
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH1 2412TX

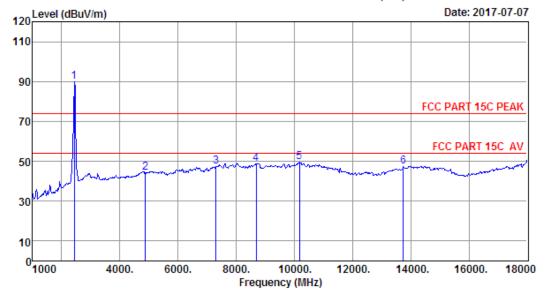
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	27.25	87.23	94.22	74.00	-20.22	Peak
2	4824.00	31.28	11.84	26.92	25.34	41.54	74.00	32.46	Peak
3	7236.00	36.53	11.55	25.78	22.17	44.47	74.00	29.53	Peak
4	9109.00	37.59	11.51	25.21	22.65	46.54	74.00	27.46	Peak
5	11285.00	39.33	11.08	24.83	21.50	47.08	74.00	26.92	Peak
6	14005.00	41.46	10.90	24.23	18.22	46.35	74.00	27.65	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 267 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 267
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH6 2437TX

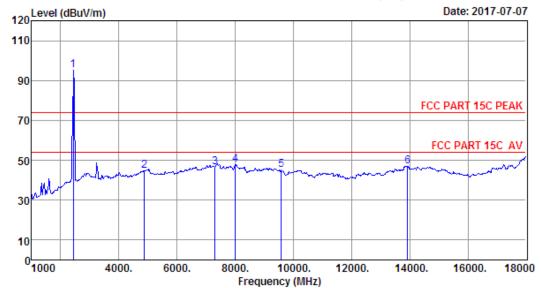
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	27.24	82.76	89.79	74.00	-15.79	Peak
2	4874.00	31.37	12.07	26.92	27.56	44.08	74.00	29.92	Peak
3	7311.00	36.55	11.57	25.75	25.00	47.37	74.00	26.63	Peak
4	8684.00	37.32	11.45	25.28	25.39	48.88	74.00	25.12	Peak
5	10180.00	38.42	11.49	25.02	24.56	49.45	74.00	24.55	Peak
6	13750.00	40.78	11.20	24.29	19.80	47.49	74.00	26.51	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 268 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 268
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH6 2437TX

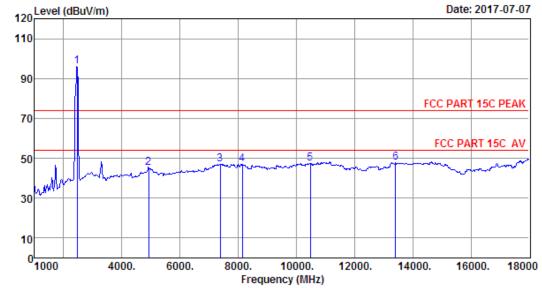
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	27.24	87.98	95.01	74.00	-21.01	Peak
2	4874.00	31.37	12.07	26.92	28.12	44.64	74.00	29.36	Peak
3	7311.00	36.55	11.57	25.75	24.33	46.70	74.00	27.30	Peak
4	8004.00	37.01	11.40	25.40	24.91	47.92	74.00	26.08	Peak
5	9585.00	37.92	11.69	25.12	20.66	45.15	74.00	28.85	Peak
6	13920.00	41.26	11.00	24.25	18.93	46.94	74.00	27.06	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 269
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH11 2462TX

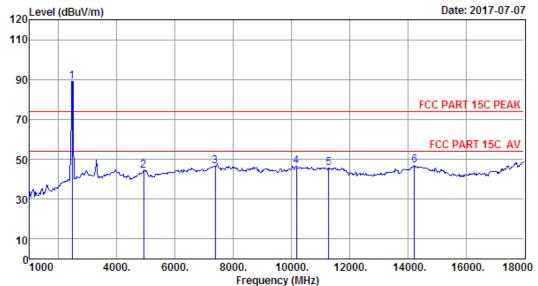
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	27.24	88.98	96.01	74.00	-22.01	Peak
2	4924.00	31.45	12.29	26.91	28.54	45.37	74.00	28.63	Peak
3	7386.00	36.57	11.59	25.71	24.64	47.09	74.00	26.91	Peak
4	8140.00	36.76	11.41	25.38	24.01	46.80	74.00	27.20	Peak
5	10486.00	38.95	11.32	24.96	22.27	47.58	74.00	26.42	Peak
6	13410.00	39.87	11.49	24.37	20.88	47.87	74.00	26.13	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 270 File: \\Emc-966-1\test data\\2017\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 270
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH11 2462TX

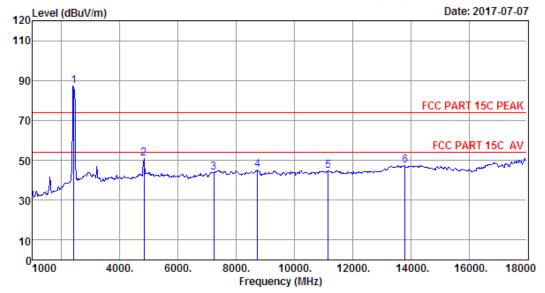
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	27.24	82.15	89.18	74.00	-15.18	Peak
2	4924.00	31.45	12.29	26.91	27.45	44.28	74.00	29.72	Peak
3	7386.00	36.57	11.59	25.71	24.11	46.56	74.00	27.44	Peak
4	10180.00	38.42	11.49	25.02	21.70	46.59	74.00	27.41	Peak
5	11285.00	39.33	11.08	24.83	20.17	45.75	74.00	28.25	Peak
6	14226.00	41.66	10.91	24.18	18.44	46.83	74.00	27.17	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 271 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 271
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n20 CH1 2412TX

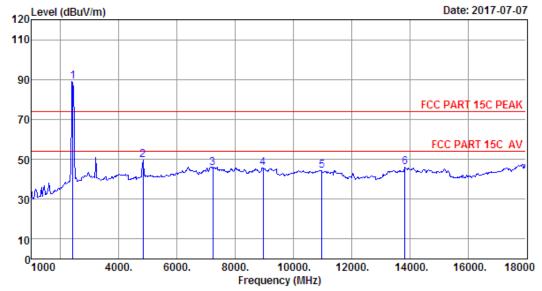
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	27.25	80.24	87.23	74.00	-13.23	Peak
2	4824.00	31.28	11.84	26.92	34.61	50.81	74.00	23.19	Peak
3	7236.00	36.53	11.55	25.78	21.68	43.98	74.00	30.02	Peak
4	8735.00	37.40	11.45	25.27	21.47	45.05	74.00	28.95	Peak
5	11166.00	39.41	11.17	24.85	18.99	44.72	74.00	29.28	Peak
6	13801.00	40.93	11.14	24.28	19.53	47.32	74.00	26.68	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 272 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 272
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n20 CH1 2412TX

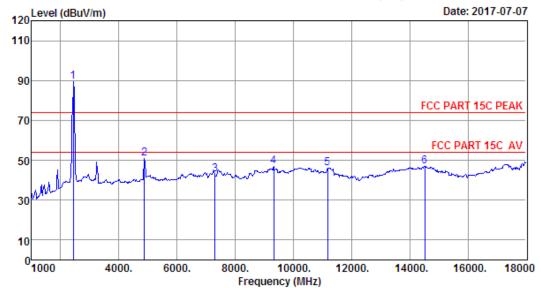
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	27.25	81.94	88.93	74.00	-14.93	Peak
2	4824.00	31.28	11.84	26.92	33.38	49.58	74.00	24.42	Peak
3	7236.00	36.53	11.55	25.78	23.34	45.64	74.00	28.36	Peak
4	8956.00	37.43	11.46	25.23	22.13	45.79	74.00	28.21	Peak
5	10979.00	39.50	11.29	24.88	18.56	44.47	74.00	29.53	Peak
6	13835.00	41.02	11.10	24.27	18.08	45.93	74.00	28.07	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 273 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n20 CH6 2437TX

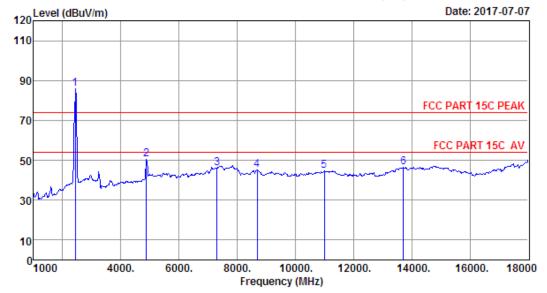
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	27.24	82.53	89.56	74.00	-15.56	Peak
2	4874.00	31.37	12.07	26.92	34.36	50.88	74.00	23.12	Peak
3	7311.00	36.55	11.57	25.75	20.70	43.07	74.00	30.93	Peak
4	9330.00	37.97	11.62	25.17	22.42	46.84	74.00	27.16	Peak
5	11183.00	39.40	11.15	24.84	20.51	46.22	74.00	27.78	Peak
6	14515.00	41.89	10.93	24.11	18.45	47.16	74.00	26.84	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 274 File: \\Emc-966-1\\test data\\2017\\RF\\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 274
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n20 CH6 2437TX

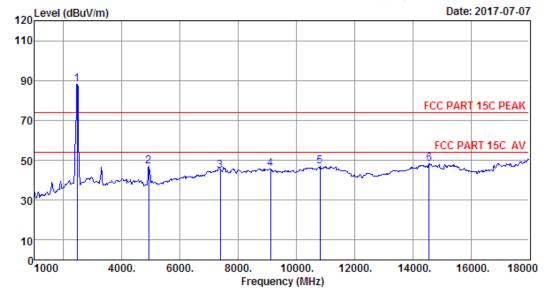
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	27.24	78.93	85.96	74.00	-11.96	Peak
2	4874.00	31.37	12.07	26.92	34.16	50.68	74.00	23.32	Peak
3	7311.00	36.55	11.57	25.75	23.76	46.13	74.00	27.87	Peak
4	8684.00	37.32	11.45	25.28	21.77	45.26	74.00	28.74	Peak
5	10996.00	39.52	11.29	24.88	18.84	44.77	74.00	29.23	Peak
6	13716.00	40.69	11.24	24.30	18.71	46.34	74.00	27.66	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 275 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 275
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n20 CH11 2462TX

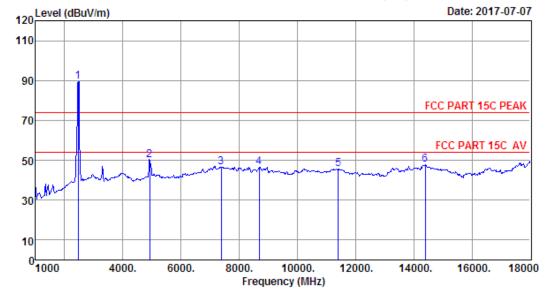
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	27.24	81.10	88.13	74.00	-14.13	Peak
2	4924.00	31.45	12.29	26.91	29.89	46.72	74.00	27.28	Peak
3	7386.00	36.57	11.59	25.71	22.29	44.74	74.00	29.26	Peak
4	9109.00	37.59	11.51	25.21	21.79	45.68	74.00	28.32	Peak
5	10809.00	39.31	11.30	24.91	21.24	46.94	74.00	27.06	Peak
6	14566.00	41.71	10.92	24.10	19.82	48.35	74.00	25.65	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 276 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 276
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n20 CH11 2462TX

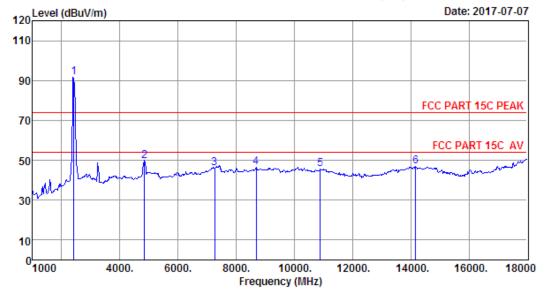
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	27.24	82.43	89.46	74.00	-15.46	Peak
2	4924.00	31.45	12.29	26.91	33.34	50.17	74.00	23.83	Peak
3	7386.00	36.57	11.59	25.71	24.01	46.46	74.00	27.54	Peak
4	8684.00	37.32	11.45	25.28	23.07	46.56	74.00	27.44	Peak
5	11404.00	39.25	10.99	24.80	20.15	45.59	74.00	28.41	Peak
6	14396.00	41.79	10.92	24.14	19.09	47.66	74.00	26.34	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 277 File: \\Emc-966-1\test data\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 277
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n40 CH3 2422TX

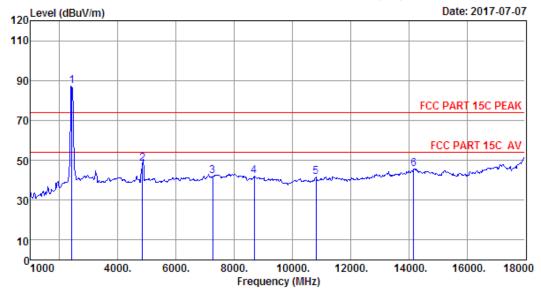
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	27.24	84.71	91.73	74.00	-17.73	Peak
2	4844.00	31.31	11.92	26.92	33.23	49.54	74.00	24.46	Peak
3	7266.00	36.54	11.56	25.77	23.81	46.14	74.00	27.86	Peak
4	8684.00	37.32	11.45	25.28	23.12	46.61	74.00	27.39	Peak
5	10894.00	39.41	11.29	24.89	19.75	45.56	74.00	28.44	Peak
6	14175.00	41.61	10.91	24.19	18.57	46.90	74.00	27.10	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 278
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n40 CH3 2422TX

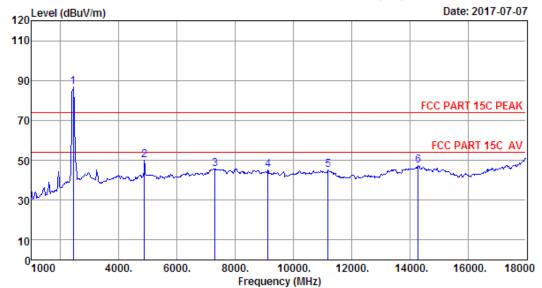
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	27.24	79.99	87.01	74.00	-13.01	Peak
2	4844.00	31.31	11.92	26.92	31.79	48.10	74.00	25.90	Peak
3	7266.00	36.54	11.56	25.77	19.59	41.92	74.00	32.08	Peak
4	8684.00	37.32	11.45	25.28	18.39	41.88	74.00	32.12	Peak
5	10809.00	39.31	11.30	24.91	15.79	41.49	74.00	32.51	Peak
6	14175.00	41.61	10.91	24.19	17.38	45.71	74.00	28.29	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 279 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 279
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n40 CH6 2437TX

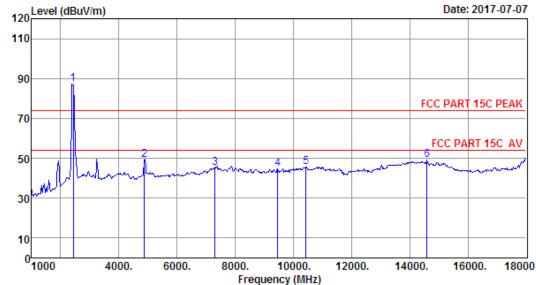
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	27.24	79.76	86.79	74.00	-12.79	Peak
2	4874.00	31.37	12.07	26.92	33.62	50.14	74.00	23.86	Peak
3	7311.00	36.55	11.57	25.75	23.12	45.49	74.00	28.51	Peak
4	9126.00	37.62	11.52	25.20	21.30	45.24	74.00	28.76	Peak
5	11200.00	39.39	11.14	24.84	19.41	45.10	74.00	28.90	Peak
6	14294.00	41.71	10.92	24.17	18.73	47.19	74.00	26.81	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 280
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n40 CH6 2437TX

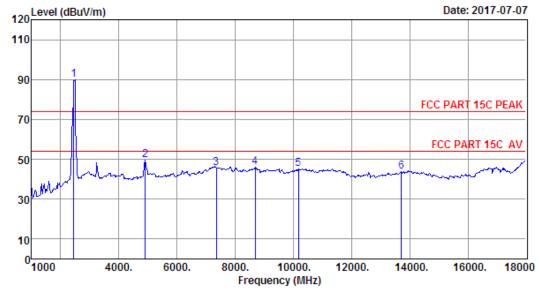
		Freq.	Ant. Factor			Reading	Emission Level	Limits	Margin	Remark
_		(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2437.00	27.60	6.67	27.24	80.18	87.21	74.00	-13.21	Peak
	2	4874.00	31.37	12.07	26.92	32.44	48.96	74.00	25.04	Peak
	3	7311.00	36.55	11.57	25.75	22.74	45.11	74.00	28.89	Peak
	4	9466.00	38.02	11.69	25.15	20.28	44.84	74.00	29.16	Peak
	5	10435.00	38.86	11.35	24.97	20.58	45.82	74.00	28.18	Peak
	6	14600.00	41.59	10.92	24.09	20.81	49.23	74.00	24.77	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 281 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 281
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n40 CH9 2452TX

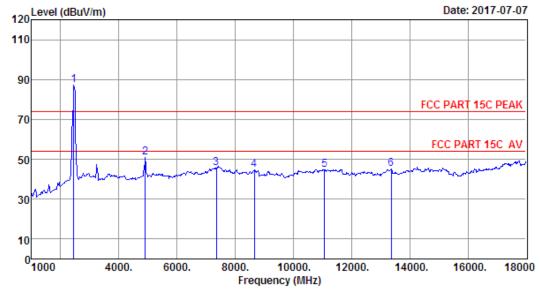
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	27.24	82.65	89.67	74.00	-15.67	Peak
2	4904.00	31.42	12.22	26.91	32.84	49.57	74.00	24.43	Peak
3	7356.00	36.56	11.58	25.72	23.33	45.75	74.00	28.25	Peak
4	8684.00	37.32	11.45	25.28	22.39	45.88	74.00	28.12	Peak
5	10180.00	38.42	11.49	25.02	20.37	45.26	74.00	28.74	Peak
6	13716.00	40.69	11.24	24.30	16.15	43.78	74.00	30.22	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 282 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 282
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n40 CH9 2452TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	27.24	80.15	87.17	74.00	-13.17	Peak
2	4904.00	31.42	12.22	26.91	34.06	50.79	74.00	23.21	Peak
3	7356.00	36.56	11.58	25.72	23.22	45.64	74.00	28.36	Peak
4	8650.00	37.27	11.45	25.29	21.39	44.82	74.00	29.18	Peak
5	11064.00	39.48	11.24	24.86	19.04	44.90	74.00	29.10	Peak
6	13359.00	39.74	11.48	24.38	18.10	44.94	74.00	29.06	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



18000MHz - 25000MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

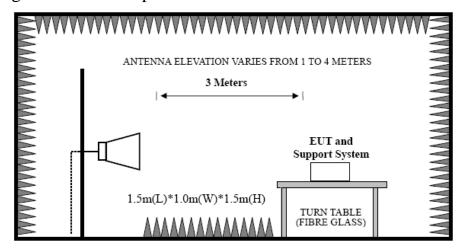


5 BAND EDGE COMPLIANCE TEST

5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

5.2 Block Diagram of Test setup



5.3 Test Procedure

EUT was placed on a turn table, which is 1.5 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

Peak: RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.

AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

5.4 Test Result

Pass (The testing data was attached in the next pages.)

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2412 MHz . 2422MHz . 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

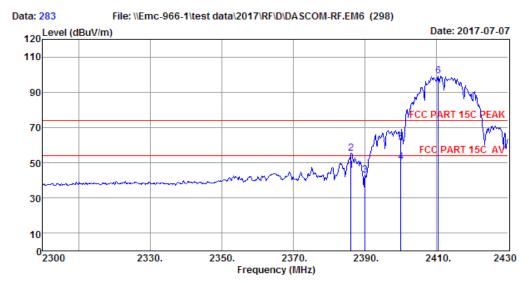
Report No. ESTE-R1709080



5.5 Test Data

EST Technology

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Site no. : 1# 966 Chamber Data no. : 283
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa
Engineer : Seven
EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

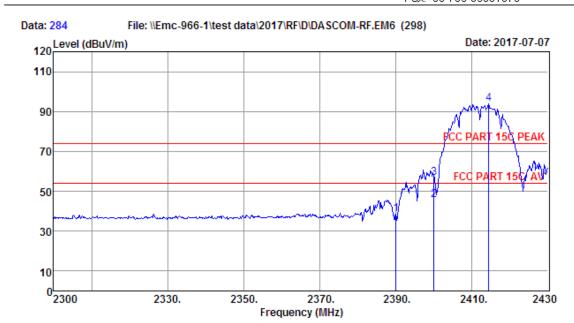
Test Mode : IEEE 802.11b CH1 2412TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.06	27.64	6.62	27.25	38.56	45.57	54.00	8.43	Average
2	2386.06	27.64	6.62	27.25	48.56	55.57	74.00	18.43	Peak
3	2390.00	27.64	6.62	27.25	35.92	42.93	74.00	31.07	Peak
4	2400.00	27.61	6.62	27.25	43.64	50.62	54.00	3.38	Average
5	2400.00	27.61	6.62	27.25	54.64	61.62	74.00	12.38	Peak
6	2410.50	27.60	6.64	27.25	92.40	99.39	74.00	-25.39	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : site Data no. : 284
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH1 2412TX

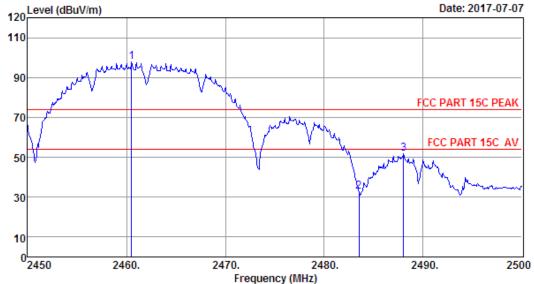
	Freq. (MHz)		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	27.25	31.34	38.35	74.00	35.65	Peak
2	2400.00	27.61	6.62	27.25	38.64	45.62	54.00	8.38	Average
3	2400.00	27.61	6.62	27.25	49.64	56.62	74.00	17.38	Peak
4	2414.40	27.60	6.64	27.25	86.87	93.86	74.00	-19.86	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 285
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH11 2462TX

	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.50	27.58	6.69	27.24	90.69	97.72	74.00	-23.72	Peak
2	2483.50	27.58	6.71	27.24	25.91	32.96	74.00	41.04	Peak
3	2488.00	27.58	6.73	27.23	44.66	51.74	74.00	22.26	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.

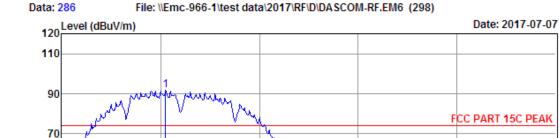


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FCC PART 15C AV

2500

2490.



2470.

2480.

Frequency (MHz)

Site no. : 1# 966 Chamber Data no. : 286
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

2460.

Engineer : Seven

0<mark>2450</mark>

50

30

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11b CH11 2462TX

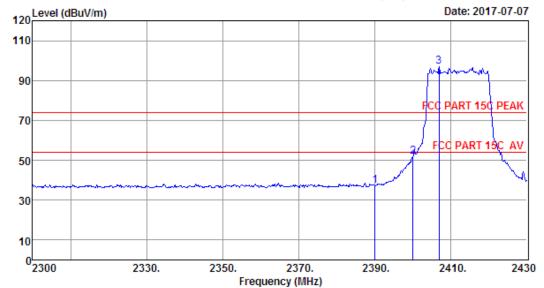
	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.50	27.58	6.69	27.24	84.52	91.55	74.00	-17.55	Peak
2	2483.50	27.58	6.71	27.24	30.62	37.67	74.00	36.33	Peak
3	2488.00	27.58	6.73	27.23	40.51	47.59	74.00	26.41	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 287 File: \\Emc-966-1\test data\2017\RF\D\DASCOM-RF.EM6 (298)



Data no. : 287 Ant. pol. : HORIZONTAL Site no. : 1# 966 Chamber

: 3m ANT 1-18G Dis. / Ant.

: FCC PART 15C PEAK

: Temp:25.4';Humi:52%;Press:101.52kPa Env. / Ins.

: Seven Engineer

: portable receipt and form printer EUT : DC 19V From Adapter Input AC 120V/60Hz Power

M/N : DP-581

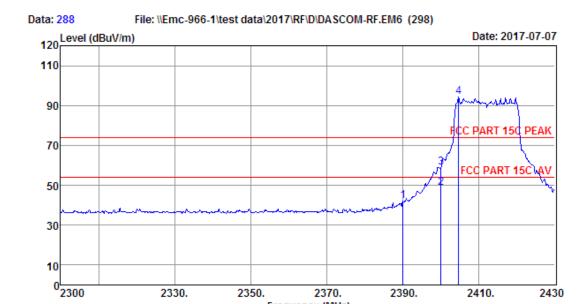
Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	27.25	30.10	37.11	74.00	36.89	Peak
2	2400.00	27.61	6.62	27.25	44.98	51.96	74.00	22.04	Peak
3	2406.86	27.61	6.64	27.25	90.08	97.08	74.00	-23.08	Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Frequency (MHz)

Site no. : 1# 966 Chamber Data no. : 288
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

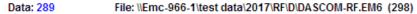
Test Mode : IEEE 802.11g CH1 2412TX

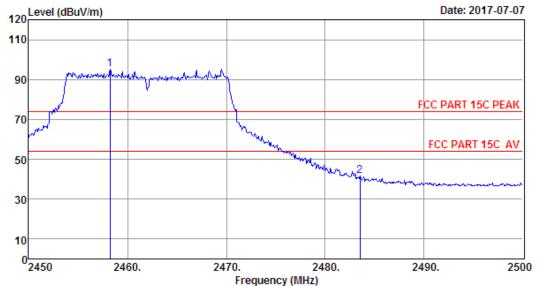
	Freq. (MHz)		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	27.25	34.85	41.86	74.00	32.14	Peak
2	2400.00	27.61	6.62	27.25	41.82	48.80	54.00	5.20	Average
3	2400.00	27.61	6.62	27.25	51.82	58.80	74.00	15.20	Peak
4	2404.65	27.61	6.64	27.25	87.36	94.36	74.00	-20.36	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 289
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH11 2462TX

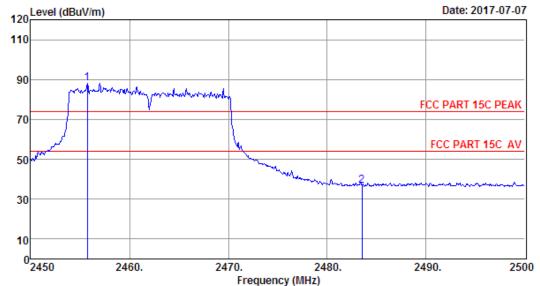
	Freq.		Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2458.25 2483.50				95.22 41.83	74.00 74.00	-21.22 32.17	Peak Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 290
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11g CH11 2462TX

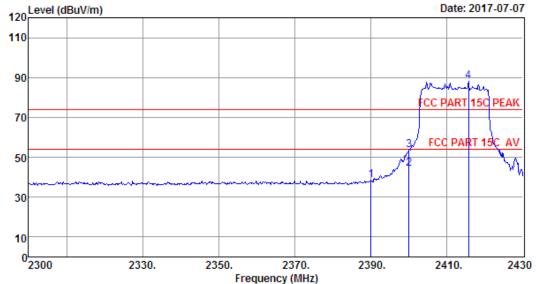
	-			Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.75	27.59	6.69	27.24	81.19	88.23	74.00	-14.23	Peak
2	2483.50	27.58	6.71	27.24	29.86	36.91	74.00	37.09	Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Data: 291 File: \\Emc-966-1\\test data\\2017\\RF\\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 291
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n HT20 CH1 2412TX

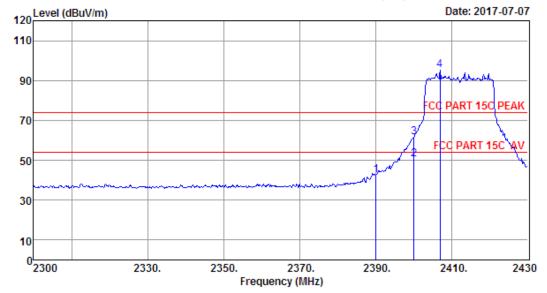
	Freq. (MHz)		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	27.25	31.34	38.35	74.00	35.65	Peak
2	2400.00	27.61	6.62	27.25	37.41	44.39	54.00	9.61	Average
3	2400.00	27.61	6.62	27.25	46.41	53.39	74.00	20.61	Peak
4	2415.70	27.60	6.64	27.25	81.23	88.22	74.00	-14.22	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 292 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 292
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n HT20 CH1 2412TX

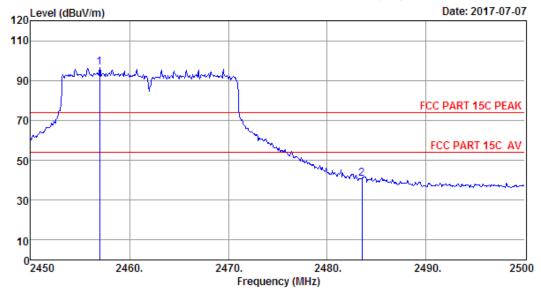
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	27.25	35.53	42.54	74.00	31.46	Peak
2	2400.00	27.61	6.62	27.25	43.62	50.60	54.00	3.40	Average
3	2400.00	27.61	6.62	27.25	54.62	61.60	74.00	12.40	Peak
4	2406.86	27.61	6.64	27.25	88.07	95.07	74.00	-21.07	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 293
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n HT20 CH11 2462TX

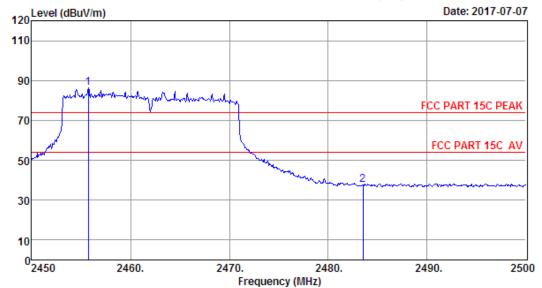
	Freq.		Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2457.00 2483.50			89.55 33.70	96.59 40.75	74.00 74.00	-22.59 33.25	Peak Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Data: 294 File: \\Emc-966-1\test data\\2017\\RF\D\DASCOM-RF.EM6 (298)



Site no. : 1# 966 Chamber Data no. : 294
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

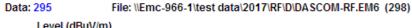
Test Mode : IEEE 802.11n HT20 CH11 2462TX

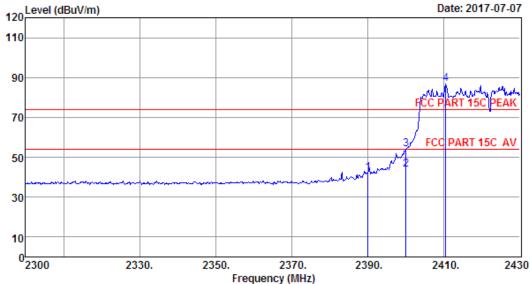
	Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2455.75 2483.50				86.49 37.59	74.00 74.00	-12.49 36.41	Peak Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 295
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

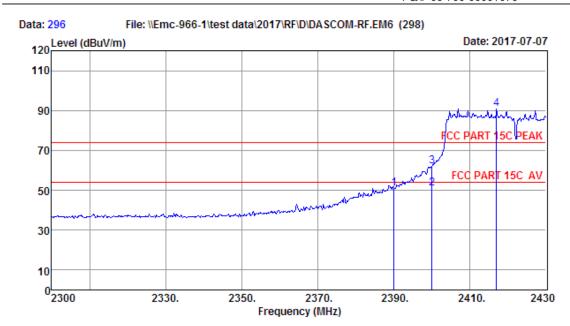
Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	27.25	35.18	42.19	74.00	31.81	Peak
2	2400.00	27.61	6.62	27.25	36.92	43.90	54.00	10.10	Average
3	2400.00	27.61	6.62	27.25	46.92	53.90	74.00	20.10	Peak
4	2410.50	27.60	6.64	27.25	79.63	86.62	74.00	-12.62	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 296
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n HT40 CH3 2422TX

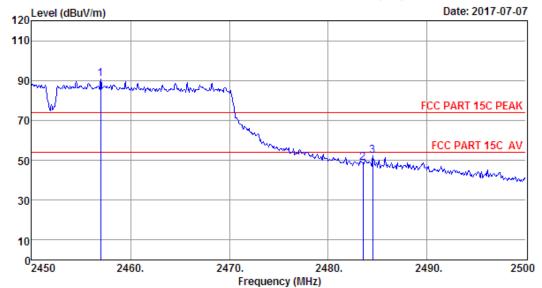
	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	27.25	43.81	50.82	74.00	23.18	Peak
2	2400.00	27.61	6.62	27.25	44.02	51.00	54.00	3.00	Average
3	2400.00	27.61	6.62	27.25	55.13	62.11	74.00	11.89	Peak
4	2417.00	27.60	6.64	27.24	83.83	90.83	74.00	-16.83	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 297
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n HT40 CH9 2452TX

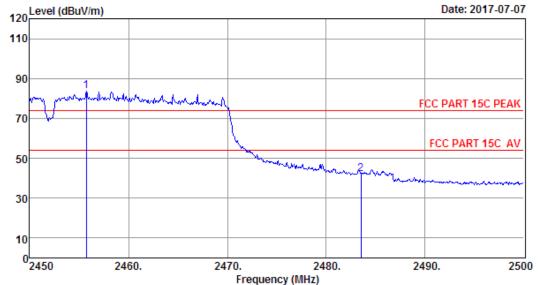
	Freq.			Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.00	27.59	6.69	27.24	83.67	90.71	74.00	-16.71	Peak
2	2483.50	27.58	6.71	27.24	41.82	48.87	74.00	25.13	Peak
3	2484.50	27.58	6.71	27.24	44.99	52.04	74.00	21.96	Peak

- 2. Margin= Limit Emission Level.



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Site no. : 1# 966 Chamber Data no. : 298
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:25.4'; Humi:52%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and form printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-581

Test Mode : IEEE 802.11n HT40 CH9 2452TX

	Freq.		Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2455.75 2483.50			76.80 35.10	83.84 42.15	74.00 74.00	-9.84 31.85	Peak Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



6 6dB & 20dB Bandwidth Test

6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2 Test Procedure for 6dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set resolution bandwidth (RBW) = 100 kHz.
 - (2). Set the video bandwidth (VBW) $\geq 3 \times RBW$.
 - (3). Detector = Peak.
 - (4). Trace mode = max hold.
 - (5). Sweep = auto couple.
 - (6). Allow the trace to stabilize.
 - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Test Procedure for 20dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in C63.10
 - (1). The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
 - (2). The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW andvideo bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
 - (3). Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
 - (4). Steps a) through c) might require iteration to adjust within the specified tolerances.
 - (5). The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
 - (6). Set detection mode to peak and trace mode to max hold.
 - (7). Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - (8). Determine the "-xx dB down amplitude" using [(reference value) -xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
 - (9). If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
 - (10). Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "_xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value,



then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "_xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



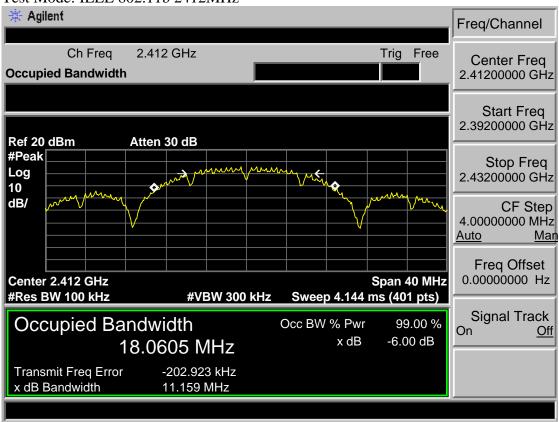
6.4 Test Result

EUT: portable receip	t and form printe	er							
M/N: DP-581									
Test date: 2017-06-2	9	Test site: RF Site	Tested by: Seven						
		6dB bandwidth	20dB bandwidth (MHz)	Limit					
Test Mode	СН	(MHz)		6dB BW (KHz)	20dB BW				
	CH1	11.159	18.762	>500	/				
IEEE 802.11 b	CH6	11.110	18.587	>500	/				
	CH11	10.205	18.511	>500	/				
	CH1	16.382	20.774	>500	/				
IEEE 802.11 g	CH6	16.437	20.802	>500	/				
	CH11	16.404	20.298	>500	/				
IEEE 000 11	CH1	17.574	21.288	>500	/				
IEEE 802.11 n HT 20	CH6	17.610	21.440	>500	/				
111 20	CH11	17.763	22.317	>500	/				
IEEE 000 11	СНЗ	36.195	44.151	>500	/				
IEEE 802.11 n HT 40	CH6	36.377	44.920	>500	/				
П1 40	CH9	36.100	45.017	>500	/				
Conclusion: PASS									

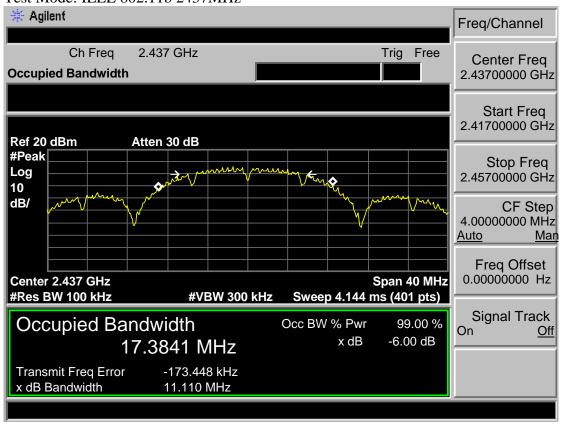


6.5 6dB Test Data

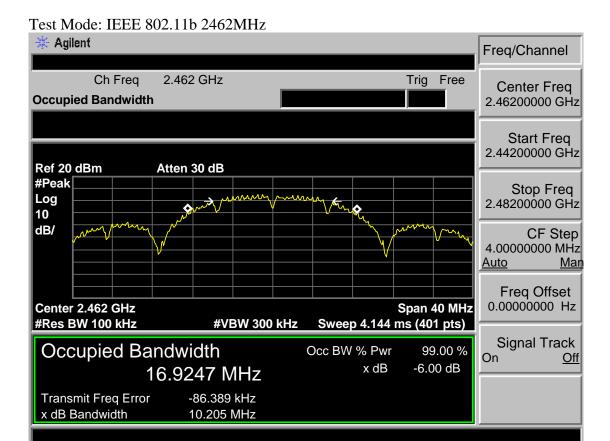
Test Mode: IEEE 802.11b 2412MHz



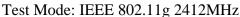
Test Mode: IEEE 802.11b 2437MHz

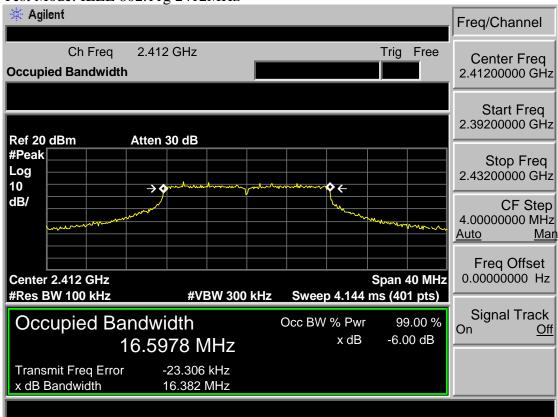




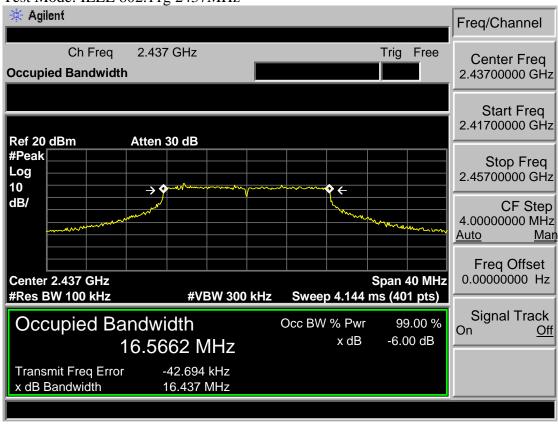




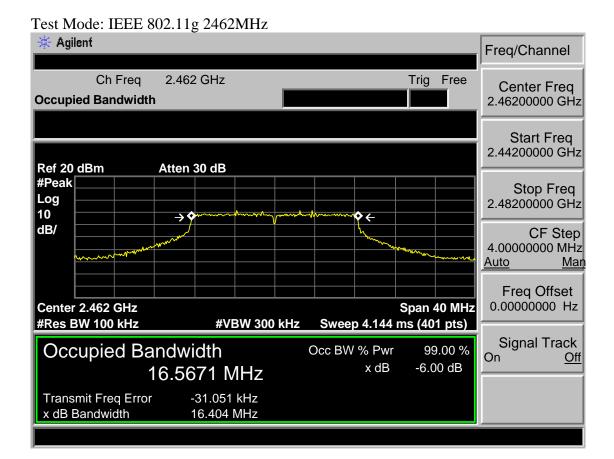




Test Mode: IEEE 802.11g 2437MHz

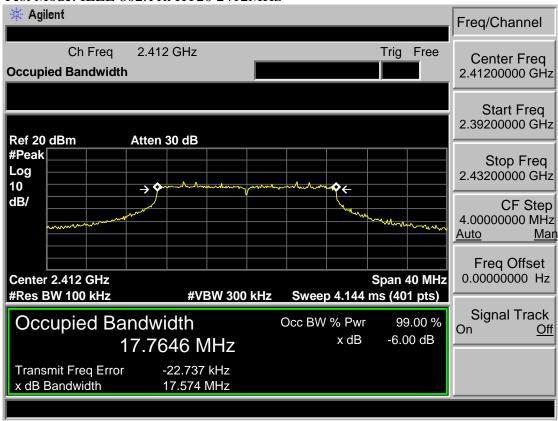




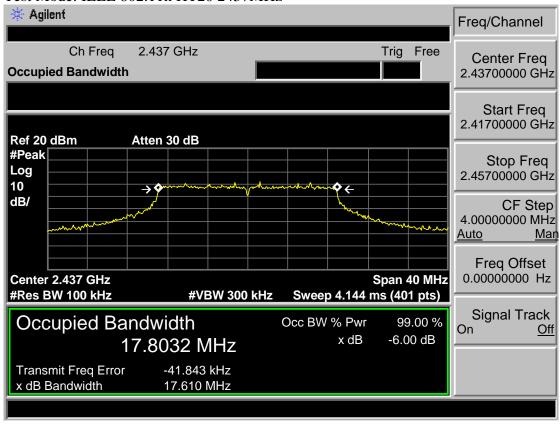




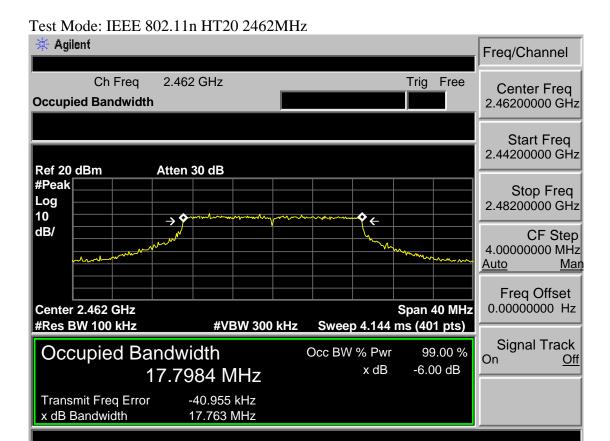




Test Mode: IEEE 802.11n HT20 2437MHz

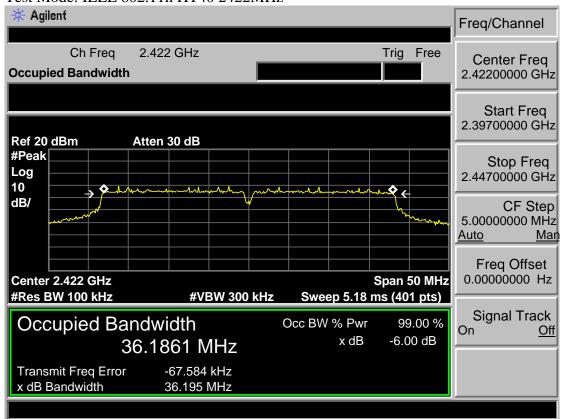








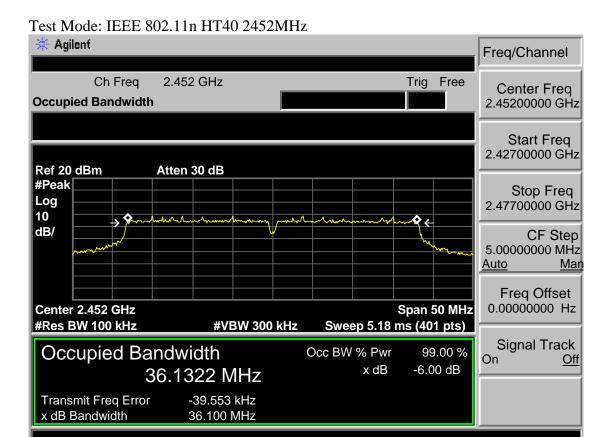




Test Mode: IEEE 802.11n HT40 2437MHz



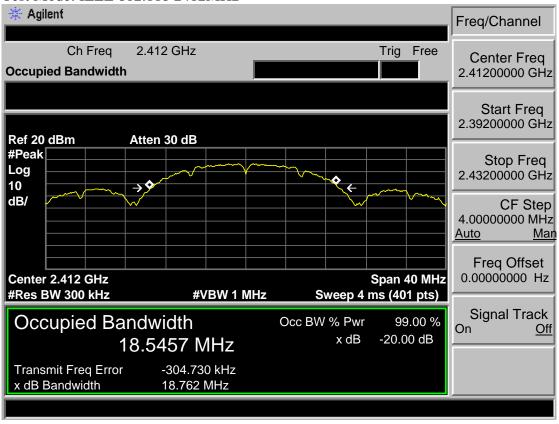




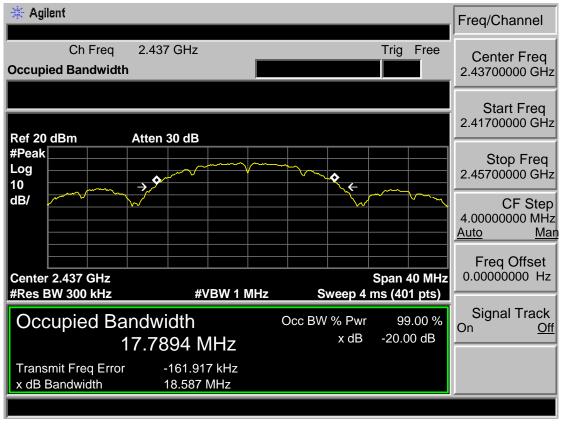


6.6 20dB Test Data

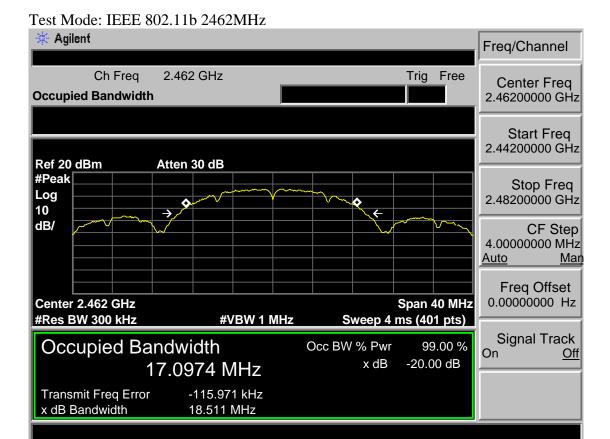
Test Mode: IEEE 802.11b 2412MHz



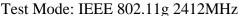
Test Mode: IEEE 802.11b 2437MHz

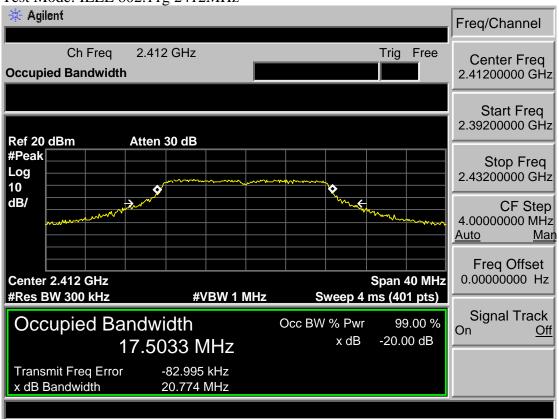




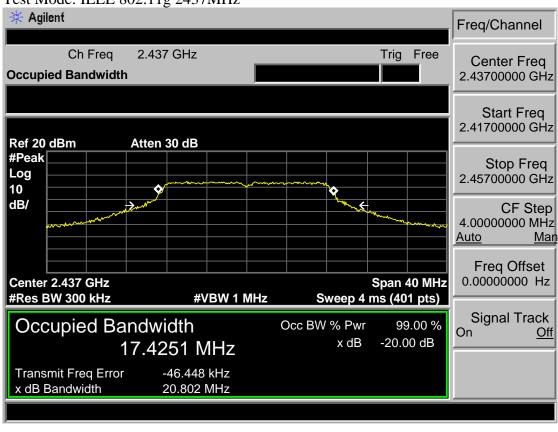




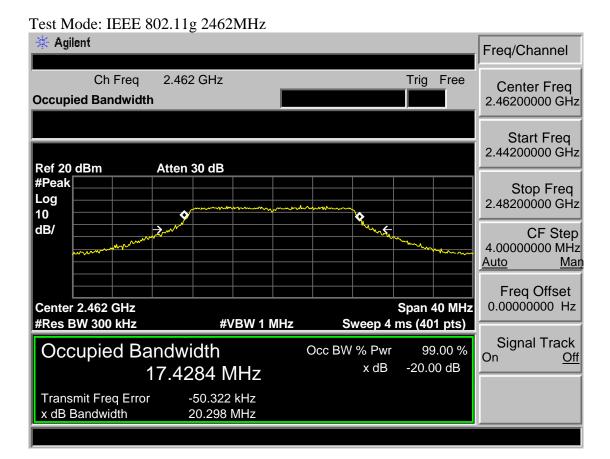




Test Mode: IEEE 802.11g 2437MHz

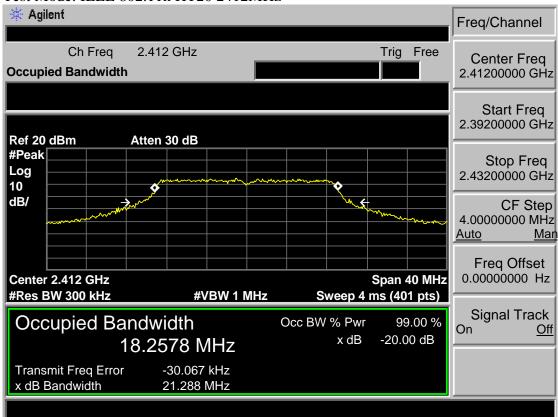




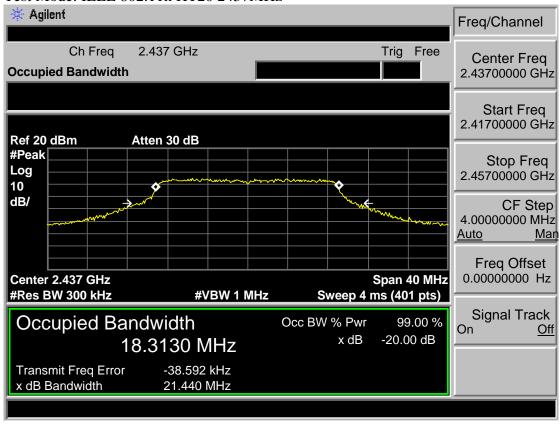




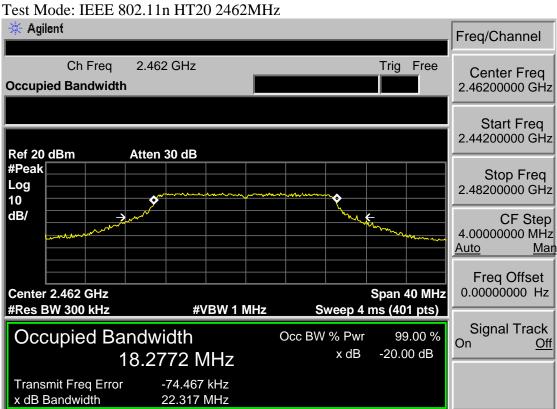


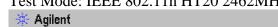


Test Mode: IEEE 802.11n HT20 2437MHz



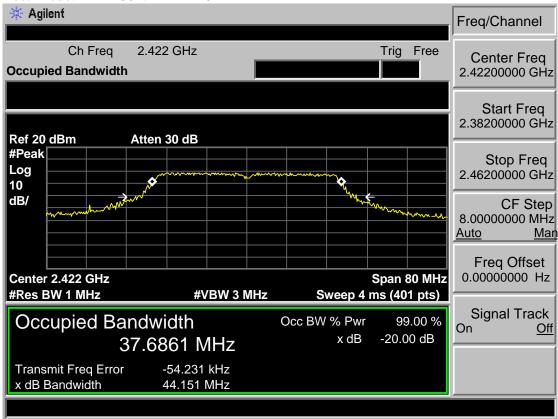




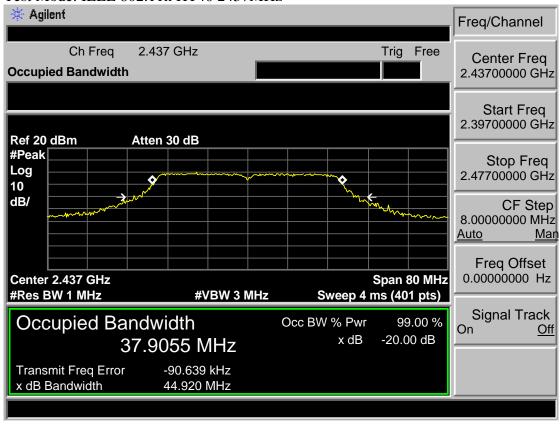




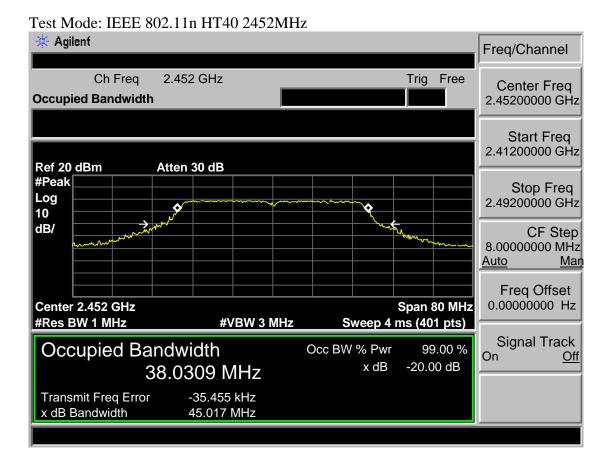




Test Mode: IEEE 802.11n HT40 2437MHz









7 OUTPUT POWER TEST

7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The AV out put Power shall not exceed 1W(30dBm)

7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1)Set span to at least 1.5 times the OBW.
 - (2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
 - (3)Set VBW \geq 3 x RBW.
 - (4)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.)
 - (4)Sweep time = auto.
 - (5) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - (6)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 ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
 - (7)Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - (8)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.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



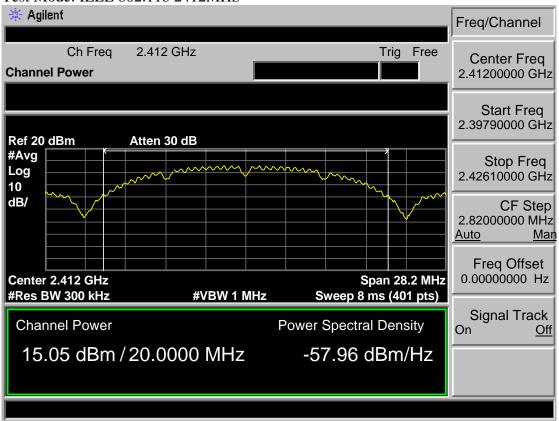
7.3 Test Result

EUT: portable re	eceipt and form p	printer	
M/N: DP-581			
Test date: 2017-06-29		Test site: RF Site	Tested by: Seven
		Pass	
Test Mode	СН	Conducted Power (dBm)	Limit (dBm)
IEEE 802.11 b	CH1	15.05	30
	CH6	14.58	30
	CH11	13.86	30
IEEE 802.11 g	CH1	5.23	30
	СН6	5.20	30
	CH11	5.08	30
IEEE 802.11 n HT 20	CH1	4.36	30
	CH6	4.66	30
	CH11	4.96	30
IEEE 802.11 n HT 40	СН3	4.37	30
	СН6	4.21	30
	CH9	4.05	30
Conclusion: PA	ASS		

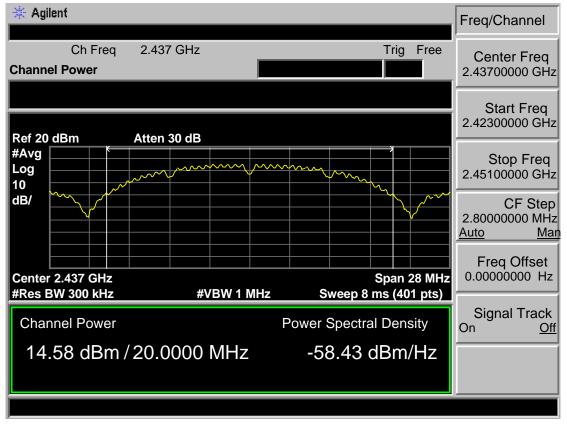


7.4 Test Data

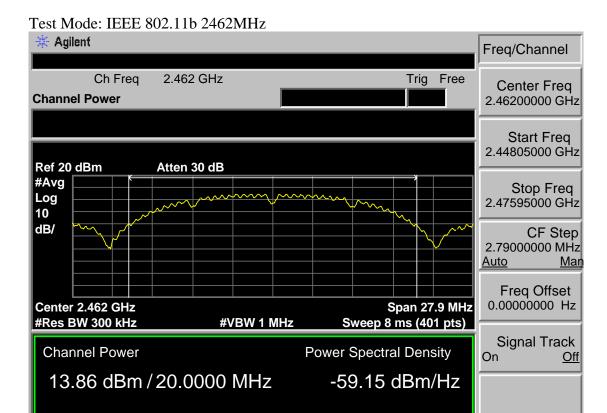
Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz

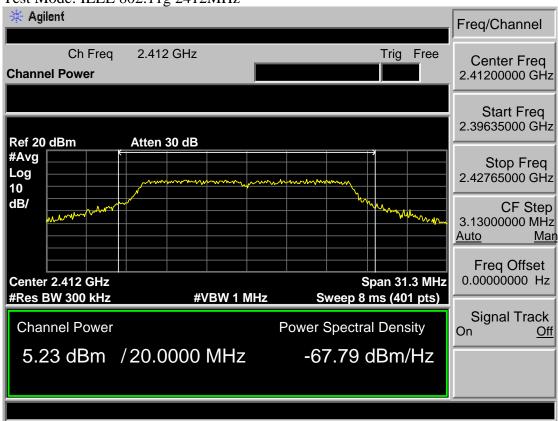




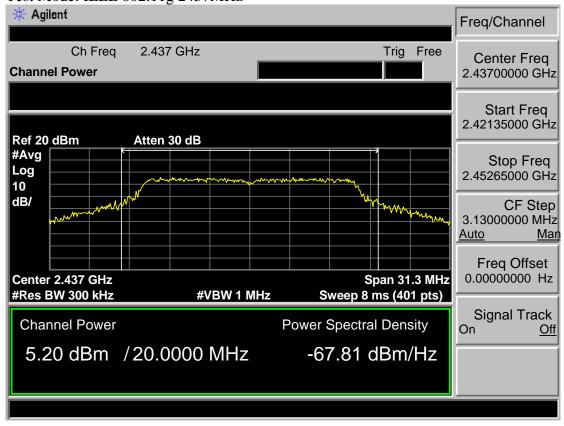




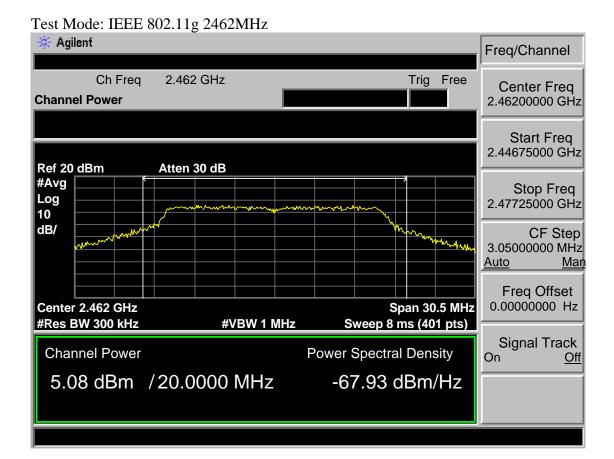
Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz

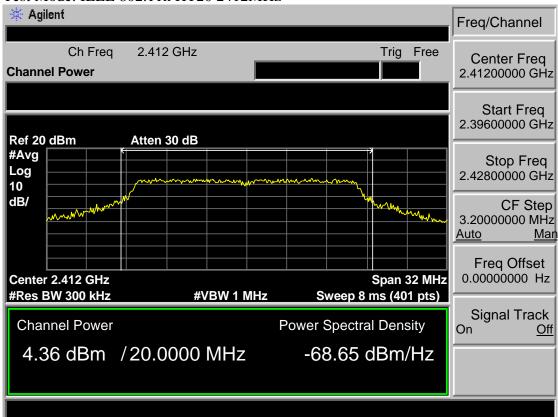




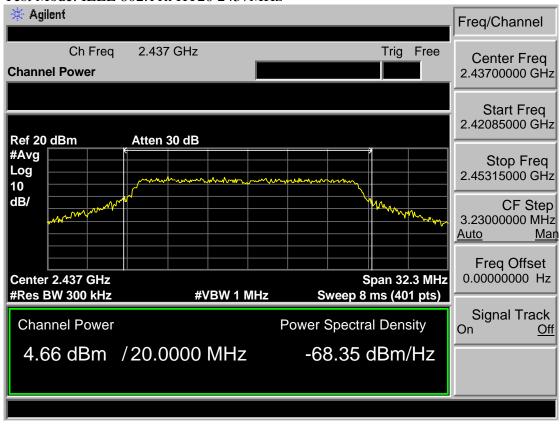






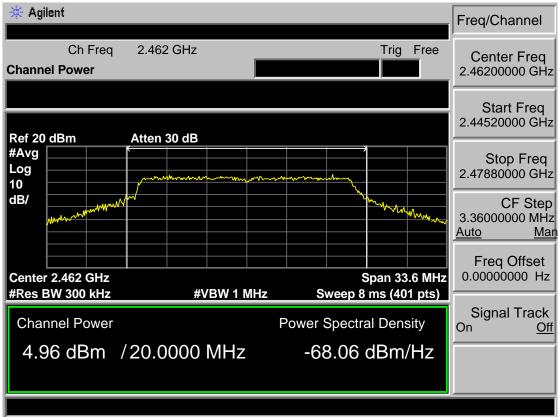


Test Mode: IEEE 802.11n HT20 2437MHz



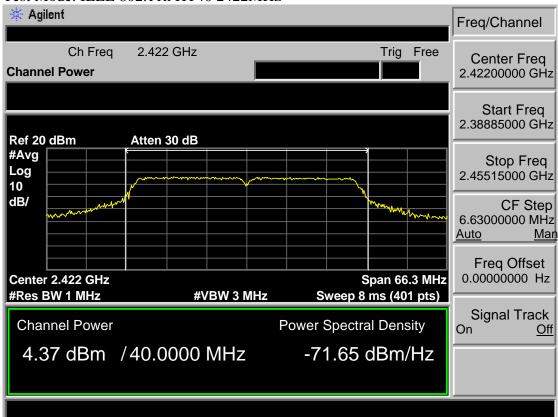








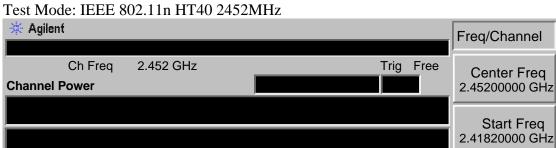


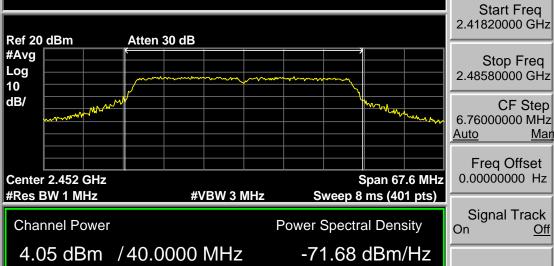


Test Mode: IEEE 802.11n HT40 2437MHz











Man

Off

8 POWER SPECTRAL DENSITY TEST

8.1 Limit

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

8.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
- (1). Set analyzer center frequency to DTS channel center frequency.
- (2). Set the span to 1.5 times the DTS bandwidth.
- (3). Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4). Set the VBW \geq 3 RBW.
- (5). Detector = peak.
- (6). Sweep time = auto couple.
- (7). Trace mode = max hold.
- (8). Allow trace to fully stabilize.
- (9). Use the peak marker function to determine the maximum amplitude level.
- (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



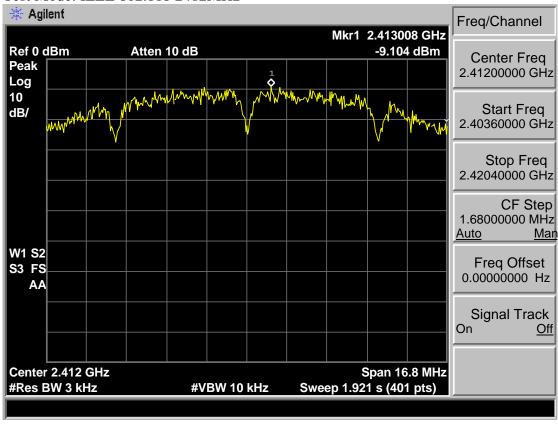
8.3 Test Result

EUT: portable re	ceipt and form	printer	
M/N: DP-581			
Test date: 2017-06-29		Test site: RF Site	Tested by: Seven
		Pass	
Test Mode	СН	Power density (dBm/3kHz)	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-9.104	8
	СН6	-9.426	8
	CH11	-9.455	8
IEEE 802.11 g	CH1	-18.560	8
	СН6	-20.430	8
	CH11	-20.330	8
IEEE 802.11 n HT 20	CH1	-19.420	8
	CH6	-20.410	8
	CH11	-20.910	8
IEEE 802.11 n HT 40	СНЗ	-22.900	8
	СН6	-23.100	8
	СН9	-23.500	8
Conclusion: PA	SS		

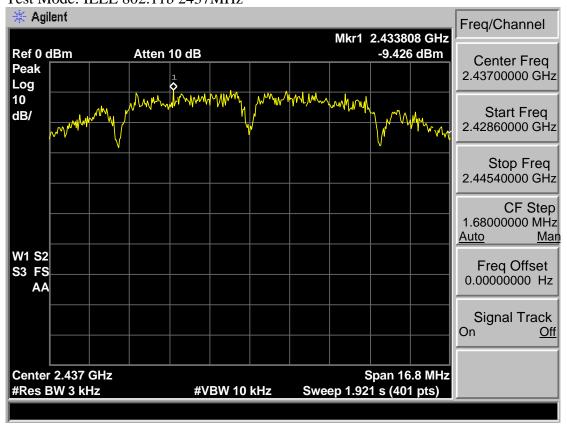


8.4 Test Data

Test Mode: IEEE 802.11b 2412MHz

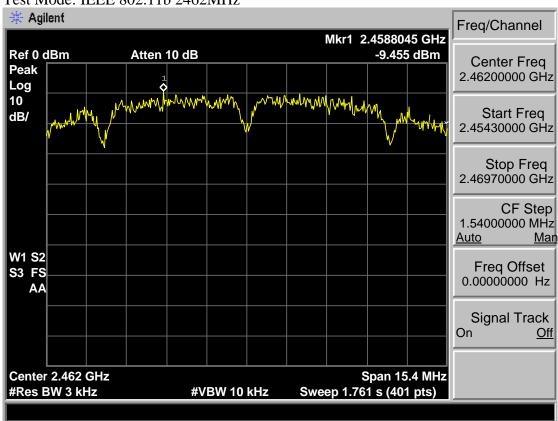


Test Mode: IEEE 802.11b 2437MHz

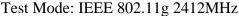


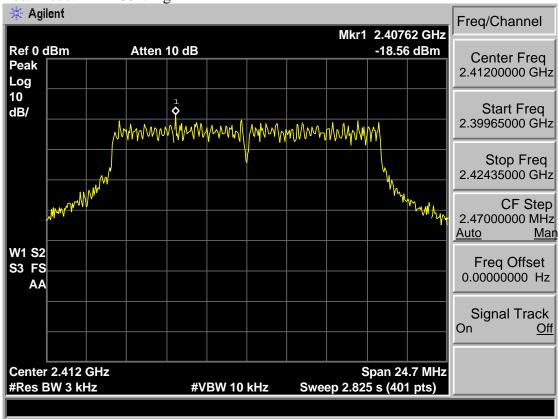




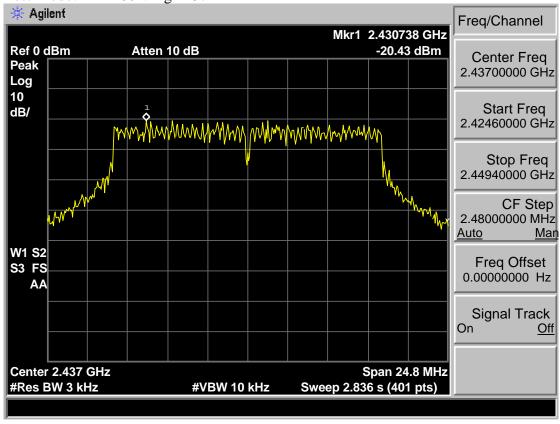








Test Mode: IEEE 802.11g 2437MHz

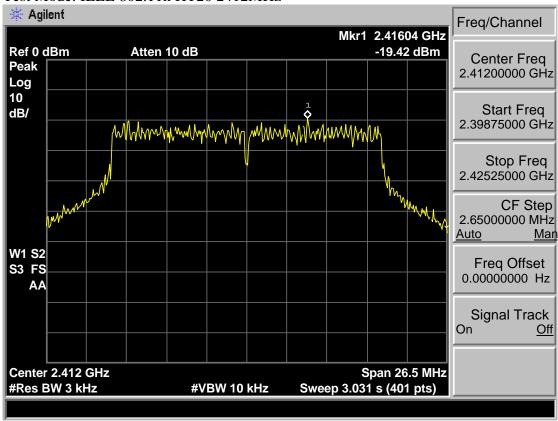




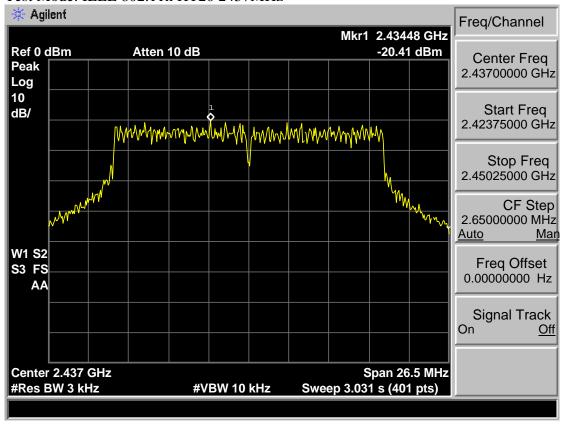
Test Mode: IEEE 802.11g 2462MHz 🔆 Agilent Freq/Channel Mkr1 2.46947 GHz Ref 0 dBm Atten 10 dB -20.33 dBm Center Freq Peak 2.46200000 GHz Log 10 Start Freq 2.44965000 GHz dB/ MANNAMAN TO THE PROPERTY OF TH Stop Freq 2.47435000 GHz CF Step 2.47000000 MHz <u>Auto</u> Man W1 S2 Freq Offset 0.00000000 Hz S3 FS AA Signal Track On Off Center 2.462 GHz Span 24.7 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 2.825 s (401 pts)





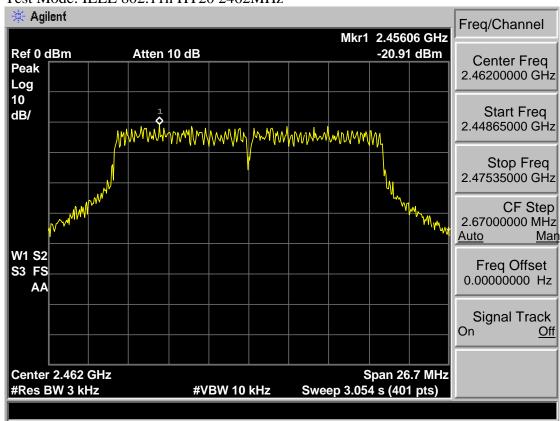


Test Mode: IEEE 802.11n HT20 2437MHz

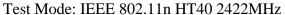


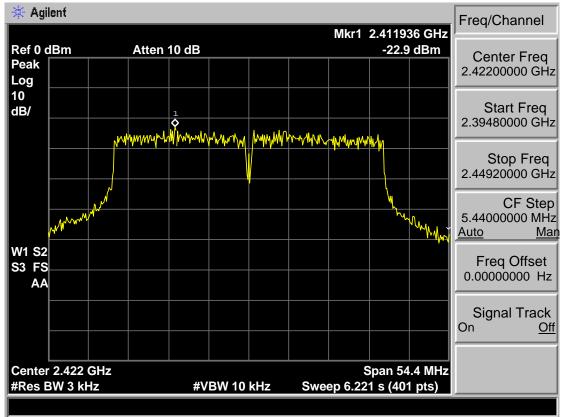


Test Mode: IEEE 802.11n HT20 2462MHz

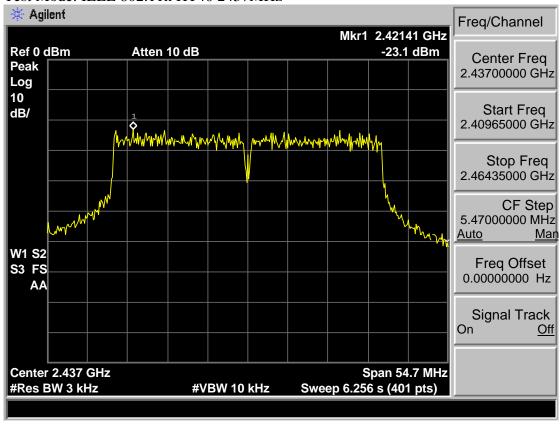






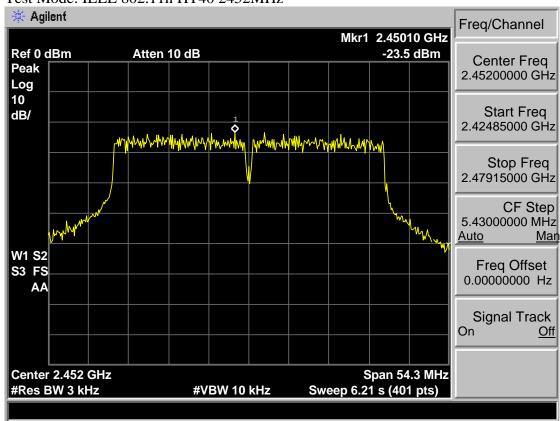


Test Mode: IEEE 802.11n HT40 2437MHz





Test Mode: IEEE 802.11n HT40 2452MHz





9 ANTENNA REQUIREMENTS

9.1 Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

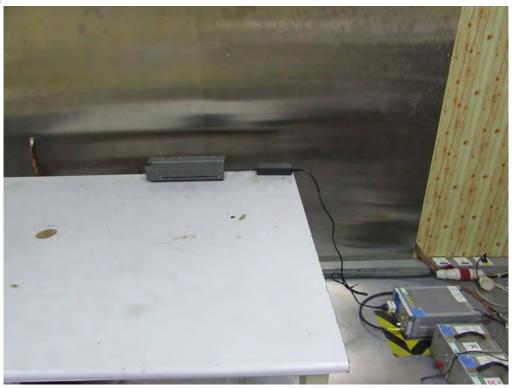
9.2 Result

The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only -3.288 dBi.



10 TEST SETUP PHOTO

Conducted Test

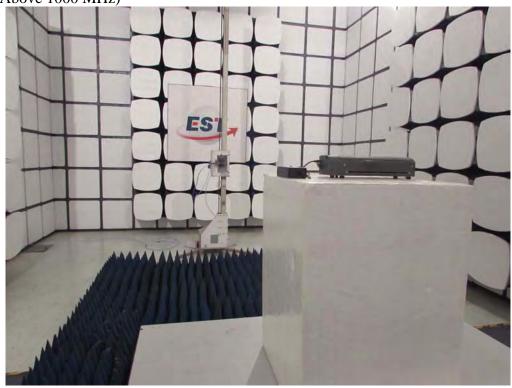




Radiated Test (30-1000 MHz)



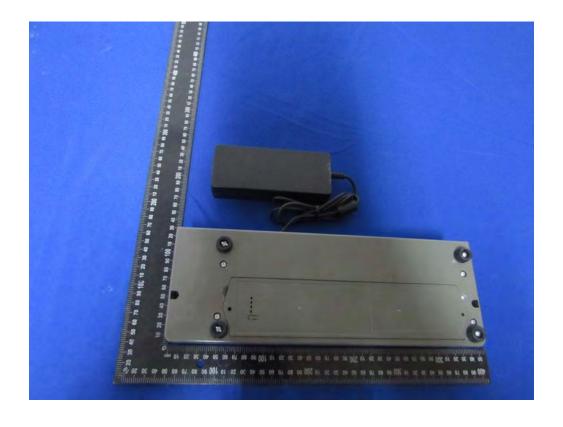
Radiated Test (Above 1000 MHz)



11 PHOTOS OF EUT

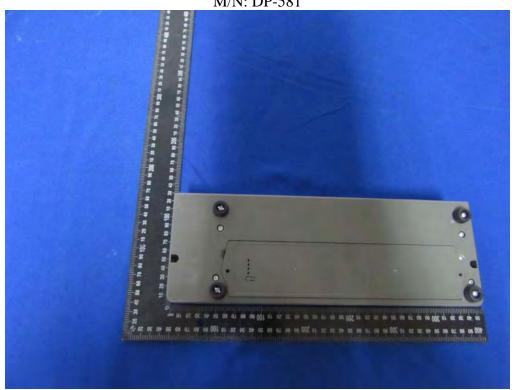
External Photos M/N: DP-581

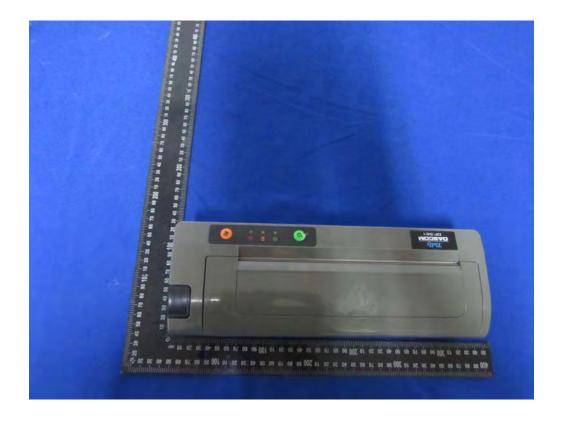






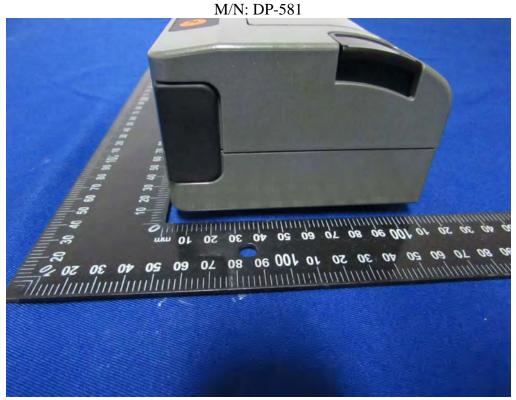
External Photos M/N: DP-581

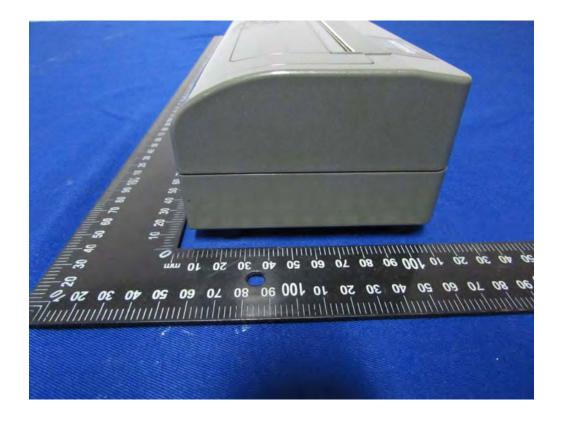






External Photos

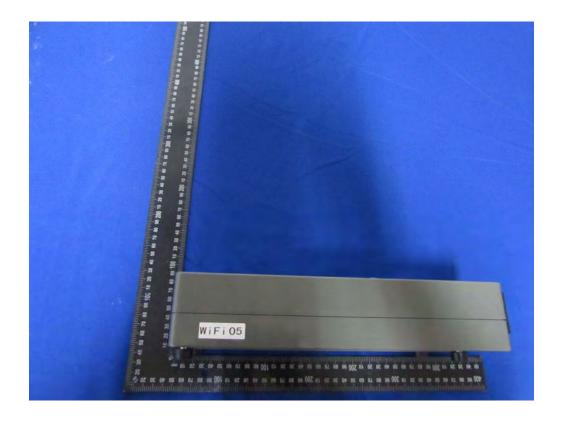






External Photos M/N: DP-581



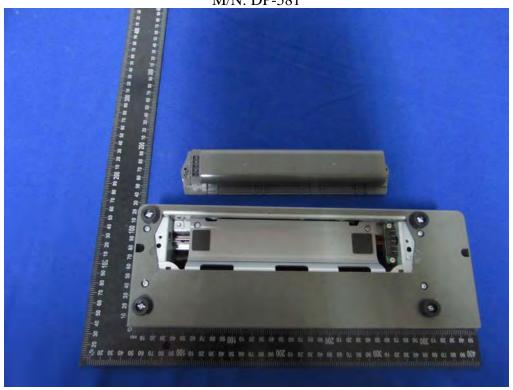




External Photos M/N: DP-581



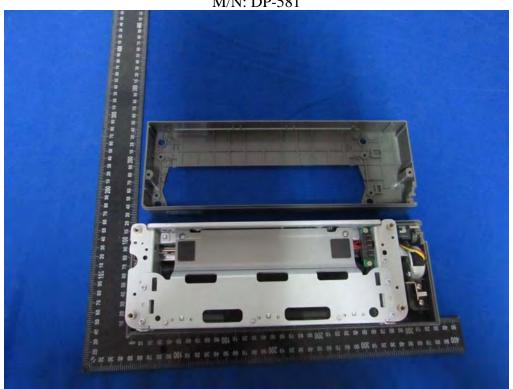
Internal Photos M/N: DP-581

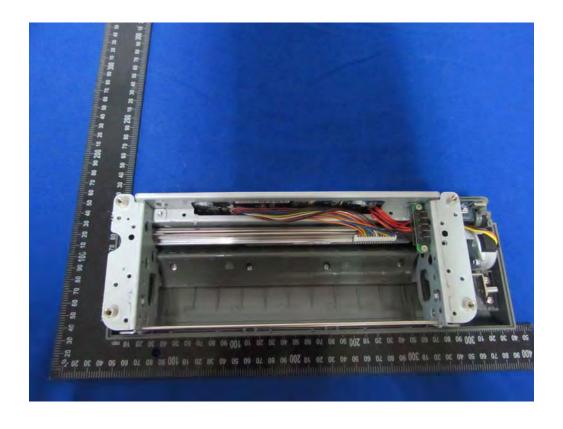






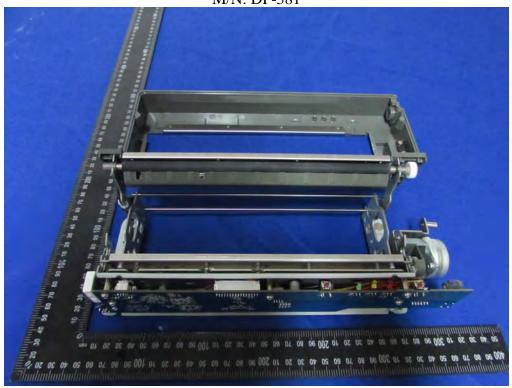
Internal Photos M/N: DP-581

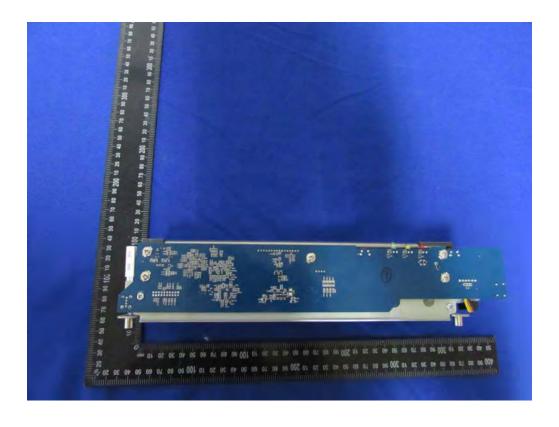






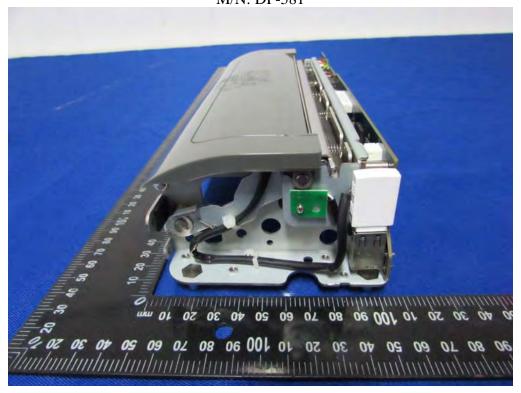
Internal Photos M/N: DP-581

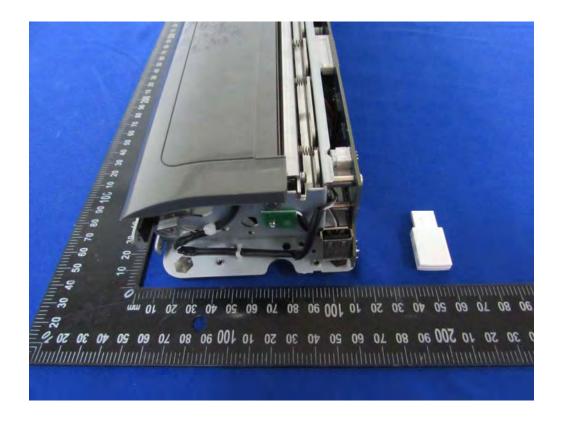






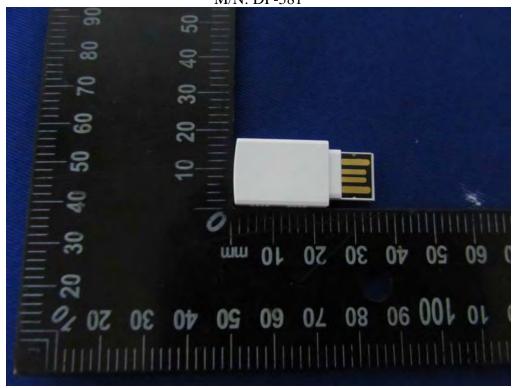
Internal Photos M/N: DP-581

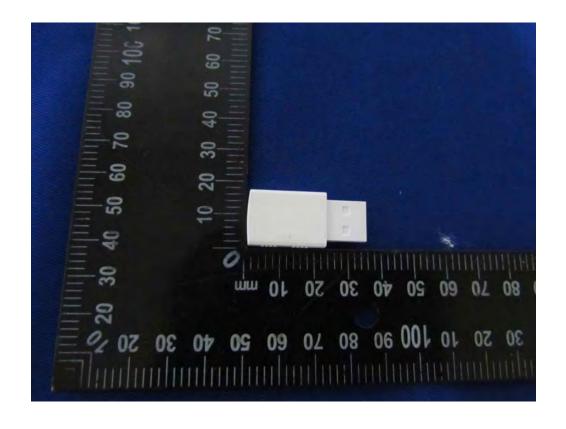






Internal Photos M/N: DP-581

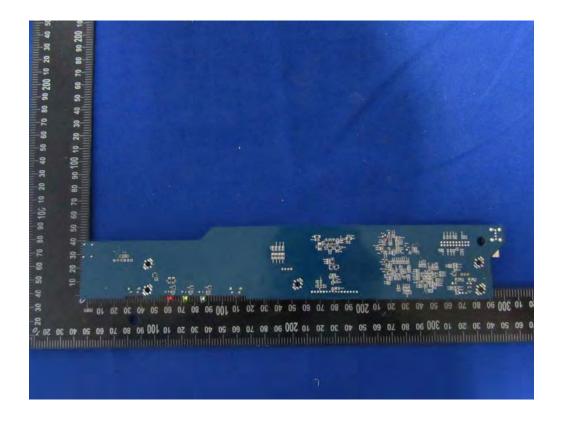






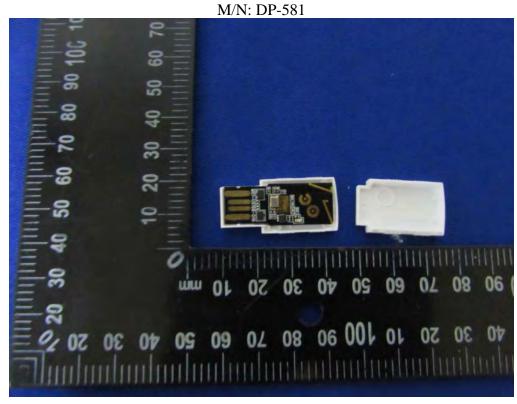
Internal Photos M/N: DP-581

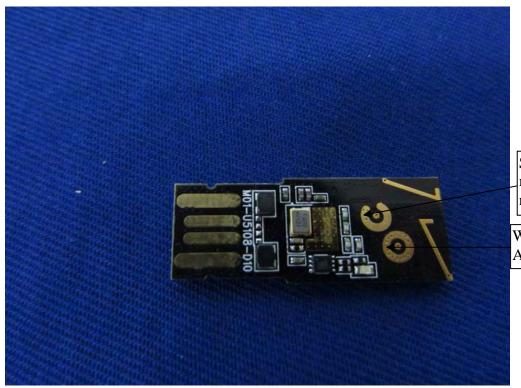






Internal Photos





Software masking,is not used

Wi-Fi Antenna **Internal Photos** M/N: DP-581

