

FCC TEST REPORT

REPORT NO.: RF130506D06

MODEL NO.: F5L153

FCC ID: K7SF5L153

RECEIVED: May 6, 2013

TESTED: May 7 ~ 10, 2013

ISSUED: May 13, 2013

APPLICANT: Belkin International, Inc.

ADDRESS: 12045 East Waterfront Dr. Playa Vista CA United

States 90094

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)

Ltd., Taoyuan Branch

LAB LOCATION: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New

Taipei City, Taiwan (R.O.C.)

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Table of Contents

ASE CONTROL RECORD	4
CERTIFICATION	5
SUMMARY OF TEST RESULTS	6
MEASUREMENT UNCERTAINTY	6
GENERAL INFORMATION	
GENERAL DESCRIPTION OF EUT	7
DESCRIPTION OF TEST MODES	8
TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	9
DESCRIPTION OF SUPPORT UNITS	
GENERAL DESCRIPTION OF APPLIED STANDARDS	12
TEST TYPES AND RESULTS	
CONDUCTED EMISSION MEASUREMENT	13
LIMITS OF CONDUCTED EMISSION MEASUREMENT	13
TEST INSTRUMENTS	13
TEST PROCEDURES	
DEVIATION FROM TEST STANDARD	14
TEST SETUP	15
EUT OPERATING CONDITIONS	15
TEST RESULTS	
RADIATED EMISSION AND BANDEDGE MEASUREMENT	18
LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	18
TEST INSTRUMENTS	
EUT OPERATING CONDITIONS	21
TEST RESULTS	
TEST RESULTS	29
CHANNEL BANDWIDTH	0.4
	SUMMARY OF TEST RESULTS MEASUREMENT UNCERTAINTY GENERAL INFORMATION GENERAL DESCRIPTION OF EUT DESCRIPTION OF TEST MODES TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL DESCRIPTION OF SUPPORT UNITS CONFIGURATION OF SYSTEM UNDER TEST GENERAL DESCRIPTION OF APPLIED STANDARDS TEST TYPES AND RESULTS CONDUCTED EMISSION MEASUREMENT LIMITS OF CONDUCTED EMISSION MEASUREMENT TEST INSTRUMENTS TEST PROCEDURES DEVIATION FROM TEST STANDARD TEST SETUP EUT OPERATING CONDITIONS TEST RESULTS RADIATED EMISSION AND BANDEDGE MEASUREMENT LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT TEST INSTRUMENTS TEST INSTRUMENTS TEST PROCEDURES DEVIATION FROM TEST STANDARD TEST SETUP EUT OPERATING CONDITIONS



4.5.1	LIMITS OF CHANNEL BANDWIDTH	31
4.5.2	TEST SETUP	31
4.5.3	TEST INSTRUMENTS	31
4.5.4	TEST PROCEDURE	31
4.5.5	DEVIATION FROM TEST STANDARD	31
4.5.6	EUT OPERATING CONDITION	31
4.5.7	TEST RESULTS	
4.6	HOPPING CHANNEL SEPARATION	33
4.6.1	LIMIT OF HOPPING CHANNEL SEPARATION	33
4.6.2	TEST SETUP	
4.6.3	TEST INSTRUMENTS	33
4.6.4	TEST PROCEDURES	
4.6.5	DEVIATION FROM TEST STANDARD	33
4.6.6	TEST RESULTS	
4.7	MAXIMUM OUTPUT POWER	35
4.7.1	LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT	35
4.7.2	TEST SETUP	
4.7.3	TEST INSTRUMENTS	35
4.7.4	TEST PROCEDURES	
4.7.5	DEVIATION FROM TEST STANDARD	35
4.7.6	EUT OPERATING CONDITION	35
4.7.7	TEST RESULTS	36
4.8	CONDUCTED OUT OF BAND EMISSION MEASUREMENT	37
4.8.1	LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT	37
4.8.2	TEST INSTRUMENTS	37
4.8.3	TEST PROCEDURE	37
4.8.4	DEVIATION FROM TEST STANDARD	37
4.8.5	EUT OPERATING CONDITION	37
4.8.6	TEST RESULTS	37
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION	39
6.	INFORMATION ON THE TESTING LABORATORIES	40
7.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING	
	CHANGES TO THE EUT BY THE LAB	41



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130506D06	Original release	May 13, 2013

Report No.: RF130506D06 4 of 41 Report Format Version 5.0.1



1. CERTIFICATION

PRODUCT: FastFit Keyboard Case for iPad Mini

MODEL NO.: F5L153

BRAND: Belkin

APPLICANT: Belkin International, Inc.

TESTED: May 7 ~ 10, 2013

TEST SAMPLE: MASS-PRODUCTION

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10-2009

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY: Annie Chang, DATE: May 13, 2013

(Annie Chang / Supervisor)



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 15, Subpart C							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK					
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -20.82dB at 0.75938MHz.					
15.247(a)(1) (iii)	Number of Hopping Frequency Used	PASS	Meet the requirement of limit.					
15.247(a)(1) (iii)	Dwell Time on Each Channel	PASS	Meet the requirement of limit.					
15.247(a)(1)	Hopping Channel Separation Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	PASS	Meet the requirement of limit.					
15.247(b)	Maximum Peak Output Power	PASS	Meet the requirement of limit.					
15.247(d)	Transmitter Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -8.9dB at 2390.00MHz.					
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.					
15.203	Antenna Requirement	PASS	No antenna connector is used.					

NOTE: If The Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	150kHz ~ 30MHz	2.41 dB
Dediated emissions	30MHz ~ 1GHz	4.30 dB
Radiated emissions	Above 1GHz	3.36 dB

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	FastFit Keyboard Case for iPad Mini
MODEL NO.	F5L153
POWER SUPPLY	3.7Vdc or 5Vdc
MODULATION TYPE	GFSK
MODULATION TECHNOLOGY	FHSS
TRANSFER RATE	723.2Kbps
OPERATING FREQUENCY	2402 ~ 2480MHz
NUMBER OF CHANNEL	79
MAX. OUTPUT POWER	0.5mW
ANTENNA TYPE	Printed antenna with -0.58dBi gain
ANTENNA CONNECTOR	NA
I/O PORTS	USB port
DATA CABLE	0.9m shielded USB cable (for charge only)
ACCESSORY DEVICES	NA

NOTE:

- 1. The EUT is a FastFit Keyboard Case for iPad Mini with USB interface.
- 2. The USB function on this product is for battery charging only, no data transmitting and/or receiving function involved.
- 3. The EUT was pre-tested with the following modes:
 - ♦ Operating Mode
 - ♦ Operating + Charging Mode (via USB cable)

The worst emission level was found when the EUT tested under **Operating + Charging Mode (via USB cable)**.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

Report No.: RF130506D06 8 of 41 Report Format Version 5.0.1



3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT		APPLICA	ABLE TO					
CONFIGURE MODE	PLC	RE≥1G	RE<1G	APCM	DESCRIPTION			
-	V	\checkmark	\checkmark	\checkmark	Operating + Charging (via USB cable)			

Where **PLC:** Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

APCM: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0	FHSS	GFSK	DH5

RADIATED EMISSION TEST (ABOVE 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5

RADIATED EMISSION TEST (BELOW 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0	FHSS	GFSK	DH5



BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 78	FHSS	GFSK	DH5

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
PLC	25deg. C, 75% RH	120Vac, 60Hz	Joey Liu
RE≥1G	21deg. C, 75% RH	120Vac, 60Hz	Saxon Lee
RE<1G	21deg. C, 75% RH	120Vac, 60Hz	Saxon Lee
APCM	20deg. C, 70% RH	120Vac, 60Hz	Chad Lee

Report No.: RF130506D06 10 of 41 Report Format Version 5.0.1



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

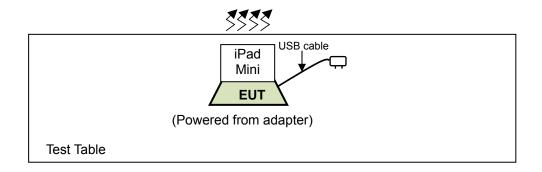
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPad Mini	apple	A1455	N/A	BCGA1395
2	Adapter of iPad Mini	apple	IA1385	D293022A3DG DY88C0	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	AC I/P: 100-240Vac 0.15A 50/60Hz
	DC O/P: 5.0Vdc, 1A

NOTE: 1. All power cords of the above support units are non-shielded (1.8m).

2. The supports 1-2 were provided by client.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



Report No.: RF130506D06 11 of 41 Report Format Version 5.0.1



3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (Section 15.247) ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

Report No.: RF130506D06 12 of 41 Report Format Version 5.0.1



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)			
	Quasi-peak	Average		
0.15 ~ 0.5	66 to 56	56 to 46		
0.5 ~ 5	56	46		
5 ~ 30	60	50		

NOTE: 1. The lower limit shall apply at the transition frequencies.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100276	Jan. 07, 2013	Jan. 06, 2014
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100219	Nov. 28, 2012	Nov. 27, 2013
LISN With Adapter (for EUT)	AD10	C10Ada-001	Nov. 28, 2012	Nov. 27, 2013
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100218	Dec. 05, 2012	Dec. 04, 2013
Software	ADT_Cond_V7.3.7	NA	NA	NA
Software	ADT_ISN_V7.3.7	NA	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	Feb. 19, 2013	Feb. 18, 2014
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Feb. 06, 2013	Feb. 05, 2014

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in Shielded Room No. 10.
- 3. The VCCI Site Registration No. C-1852.

^{2.} The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

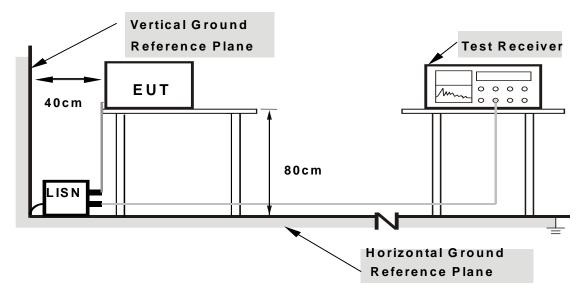
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT to AC adapter via USB cable.
- b. Set the EUT under transmitting and charging condition.



4.1.7 TEST RESULTS

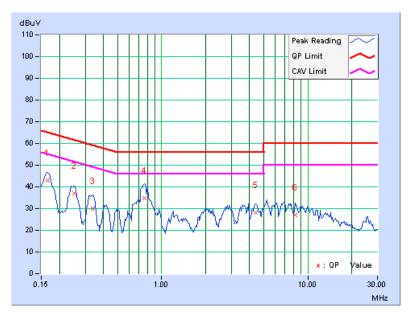
CONDUCTED WORST-CASE DATA

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	0		

Eros		Erog Corr.		Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB	(uV)]	[dB	(uV)]	[dB ((uV)]	(d	B)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.16562	0.14	43.00	27.15	43.14	27.29	65.18	55.18	-22.04	-27.89	
2	0.25156	0.16	36.72	21.82	36.88	21.98	61.71	51.71	-24.83	-29.73	
3	0.33750	0.18	29.75	15.52	29.93	15.70	59.26	49.26	-29.34	-33.57	
4	0.76328	0.20	34.47	24.94	34.67	25.14	56.00	46.00	-21.33	-20.86	
5	4.38672	0.40	27.58	20.10	27.98	20.50	56.00	46.00	-28.02	-25.50	
6	8.23828	0.65	26.38	17.50	27.03	18.15	60.00	50.00	-32.97	-31.85	

REMARKS:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



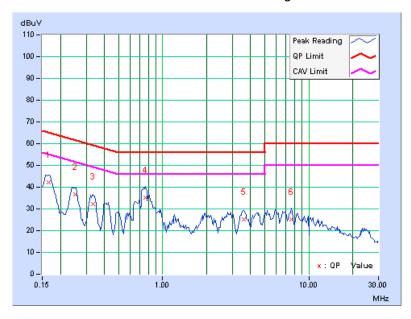


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	0		

Eroa		Corr.	Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB	(uV)]	[dB ((uV)]	[dB ((uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.11	42.28	27.17	42.39	27.28	65.18	55.18	-22.79	-27.90
2	0.25156	0.12	36.70	20.62	36.82	20.74	61.71	51.71	-24.89	-30.97
3	0.33359	0.13	32.16	16.21	32.29	16.34	59.36	49.36	-27.07	-33.02
4	0.75938	0.15	35.03	22.92	35.18	23.07	56.00	46.00	-20.82	-22.93
5	3.59375	0.25	25.06	17.31	25.31	17.56	56.00	46.00	-30.69	-28.44
6	7.63672	0.41	24.91	17.22	25.32	17.63	60.00	50.00	-34.68	-32.37

REMARKS:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





4.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Report No.: RF130506D06 18 of 41 Report Format Version 5.0.1



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 26, 2013	Feb. 25, 2014
HP Preamplifier	8449B	3008A01201	Feb. 26, 2013	Feb. 25, 2014
Agilent Spectrum Analyzer	E4446A	MY46180403	Jun. 13, 2012	Jun. 12, 2013
ROHDE & SCHWARZ Test Receiver	ESCS 30	838251/021	Oct. 11, 2012	Oct. 10, 2013
Schwarzbeck Antenna	VULB 9168	137	Mar. 20, 2013	Mar. 19, 2014
Schwarzbeck Antenna	VHBA 9123	480	May 22, 2012	May 21, 2013
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_V 7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 19, 2012	Aug. 18, 2013
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	May 18, 2012	May 17, 2013
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
Anritsu Power Sensor	MA2411B	0738404	Apr. 24, 2013	Apr. 23, 2014
Anritsu Power Meter	ML2495A	0842014	Apr. 25, 2013	Apr. 24, 2014

NOTE: 1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3. The test was performed in Chamber No. 6.
- 4. The Industry Canada Reference No. IC 7450E-6.
- 5. The FCC Site Registration No. is 447212.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

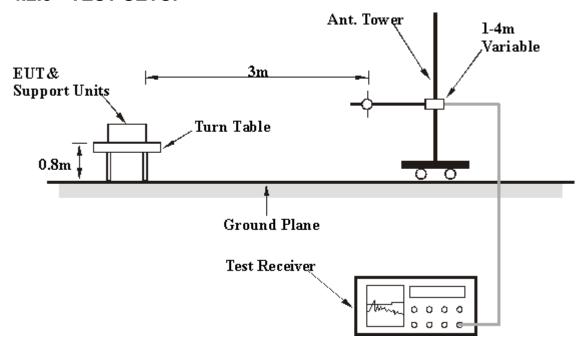
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

- a. Connected the EUT to AC adapter via USB cable.
- b. Set the EUT under transmitting and charging condition.



4.2.7 TEST RESULTS

ABOVE 1GHz DATA

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.00 H	263	26.82	32.25
2	2390.00	45.1 AV	54.0	-8.9	1.00 H	263	12.85	32.25
3	#2400.00	37.7 PK	65.9	-28.2	1.00 H	263	5.39	32.29
4	#2400.00	7.6 AV	35.8	-28.2	1.00 H	263	-24.71	32.29
5	*2402.00	85.9 PK			1.00 H	263	53.62	32.30
6	*2402.00	55.8 AV			1.00 H	263	23.52	32.30
7	4804.00	43.0 PK	74.0	-31.0	1.01 H	259	3.59	39.38
8	4804.00	12.9 AV	54.0	-41.1	1.01 H	259	-26.51	39.38
		ANTENNA	POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	1.00 V	258	26.37	32.25
2	2390.00	45.1 AV	54.0	-8.9	1.00 V	258	12.82	32.25
3	#2400.00	35.2 PK	69.5	-34.3	1.00 V	258	2.88	32.29
4	#2400.00	5.1 AV	39.4	-34.3	1.00 V	258	-27.22	32.29
5	*2402.00	89.5 PK			1.00 V	258	57.17	32.30
6	*2402.00	59.4 AV			1.00 V	258	27.07	32.30
7	4804.00	45.3 PK	74.0	-28.7	1.01 V	84	5.88	39.38
8	4804.00	15.2 AV	54.0	-38.8	1.01 V	84	-24.22	39.38

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)– Pre-Amplifier Factor (dB) if use.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
- 7. Average value = peak reading + 20log(duty cycle).
- 8. "#":The radiated frequency is out the restricted band.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2441.00	83.3 PK			1.02 H	294	50.78	32.48		
2	*2441.00	53.2 AV			1.02 H	294	20.68	32.48		
3	4882.00	42.6 PK	74.0	-31.4	1.00 H	255	3.05	39.58		
4	4882.00	12.5 AV	54.0	-41.5	1.00 H	255	-27.05	39.58		
		ANTENNA	POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
NO .	FREQ. (MHz) *2441.00	LEVEL		MARGIN (dB)		ANGLE		FACTOR		
	` ,	LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)		
1	*2441.00	LEVEL (dBuV/m) 86.6 PK		MARGIN (dB) -28.9	HEIGHT (m) 1.00 V	ANGLE (Degree) 259	(dBuV) 54.08	FACTOR (dB/m) 32.48		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - Pre-Amplifier Factor (dB) if use.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
- 7. Average value = peak reading + 20log(duty cycle).

Report No.: RF130506D06 23 of 41 Report Format Version 5.0.1



CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2480.00	83.1 PK			1.03 H	290	50.46	32.66		
2	*2480.00	53.0 AV			1.03 H	290	20.36	32.66		
3	2483.50	34.3 PK	74.0	-39.7	1.03 H	290	1.65	32.67		
4	2483.50	4.2 AV	54.0	-49.8	1.03 H	290	-28.45	32.67		
5	4960.00	42.7 PK	74.0	-31.3	1.00 H	256	3.03	39.66		
6	4960.00	12.6 AV	54.0	-41.4	1.00 H	256	-27.07	39.66		
		ANTENNA	POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M			
		FMICOLON				TABLE		CORRECTION		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)		
NO .	*2480.00	LEVEL		MARGIN (dB)	7	ANGLE		FACTOR		
	` ,	LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)		
1	*2480.00	LEVEL (dBuV/m) 85.0 PK		-39.9	HEIGHT (m)	ANGLE (Degree)	(dBuV) 52.37	FACTOR (dB/m) 32.66		
1 2	*2480.00 *2480.00	LEVEL (dBuV/m) 85.0 PK 54.9 AV	(dBuV/m)		1.00 V 1.00 V	ANGLE (Degree) 259 259	(dBuV) 52.37 22.27	FACTOR (dB/m) 32.66 32.66		
1 2 3	*2480.00 *2480.00 2483.50	LEVEL (dBuV/m) 85.0 PK 54.9 AV 34.1 PK	(dBuV/m)	-39.9	1.00 V 1.00 V 1.00 V	ANGLE (Degree) 259 259 259	(dBuV) 52.37 22.27 1.46	FACTOR (dB/m) 32.66 32.66 32.67		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - Pre-Amplifier Factor (dB) if use.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
- 7. Average value = peak reading + 20log(duty cycle).

Report No.: RF130506D06 24 of 41 Report Format Version 5.0.1



BELOW 1GHz WORST-CASE DATA:

CHANNEL	TX Channel 0	DETECTOR	Ougai Back (OB)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

		ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	32.91	16.9 QP	40.0	-23.1	1.47 H	172	4.58	12.30			
2	75.59	18.8 QP	40.0	-21.2	1.43 H	93	7.89	10.88			
3	144.46	17.4 QP	43.5	-26.1	1.37 H	104	2.87	14.51			
4	335.55	19.3 QP	46.0	-26.7	1.04 H	92	2.37	16.92			
5	551.86	27.6 QP	46.0	-18.4	1.52 H	274	5.33	22.29			
6	838.98	27.7 QP	46.0	-18.3	1.00 H	208	0.43	27.25			
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
NO.	FREQ. (MHz)	EMISSION	LIMIT			TABLE	RAW VALUE	CORRECTION			
	· · · · _ · · · · · · · · · · · · · · ·	LEVEL (dBuV/m)	(dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)			
1	32.91		(dBuV/m) 40.0	-10.6	, _						
1 2	` ,	(dBuV/m)	(dBuV/m)	,	HEIGHT (m)	(Degree)	(dBuV)	(dB/m)			
	32.91	(dBuV/m) 29.4 QP	(dBuV/m) 40.0	-10.6	HEIGHT (m)	(Degree)	(dBuV)	(dB/m) 12.30			
2	32.91 71.71	(dBuV/m) 29.4 QP 22.6 QP	(dBuV/m) 40.0 40.0	-10.6 -17.4	1.02 V 1.07 V	(Degree) 11 282	(dBuV) 17.08 10.17	(dB/m) 12.30 12.47			
2	32.91 71.71 144.46	(dBuV/m) 29.4 QP 22.6 QP 17.2 QP	(dBuV/m) 40.0 40.0 43.5	-10.6 -17.4 -26.3	1.02 V 1.07 V 1.06 V	(Degree) 11 282 269	(dBuV) 17.08 10.17 2.66	(dB/m) 12.30 12.47 14.51			

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - Pre-Amplifier Factor (dB) if use.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.

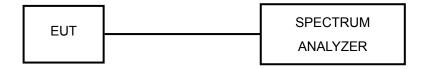


4.3 NUMBER OF HOPPING FREQUENCY USED

4.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.3.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

4.3.5 DEVIATION FROM TEST STANDARD

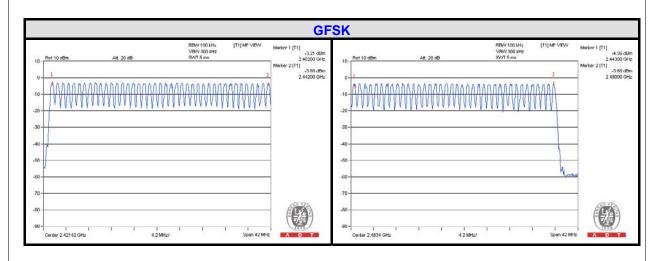
No deviation.

4.3.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

Report No.: RF130506D06 26 of 41 Report Format Version 5.0.1





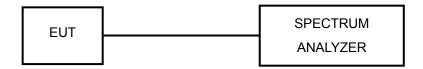


4.4 DWELL TIME ON EACH CHANNEL

4.4.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.4.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

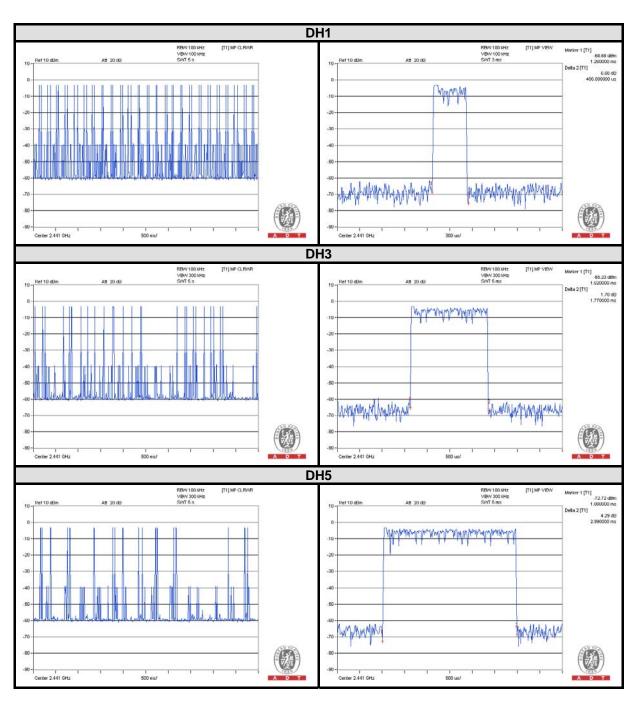


4.4.6 TEST RESULTS

Mode	Number of transmission in a 31.6 (79Hopping*0.4)	Length of transmission time (msec)	Result (msec)	Limit (msec)
DH1	50 (times / 5 sec) * 6.32 = 316.00times	0.486	153.5760	400
DH3	27 (times / 5 sec) * 6.32 = 170.64 times	1.770	302.0328	400
DH5	18 (times / 5 sec) * 6.32 = 113.76 times	2.990	340.1424	400

NOTE: Test plots of the transmitting time slot are shown on next page.





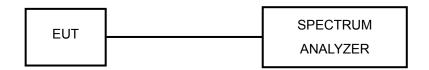


4.5 CHANNEL BANDWIDTH

4.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

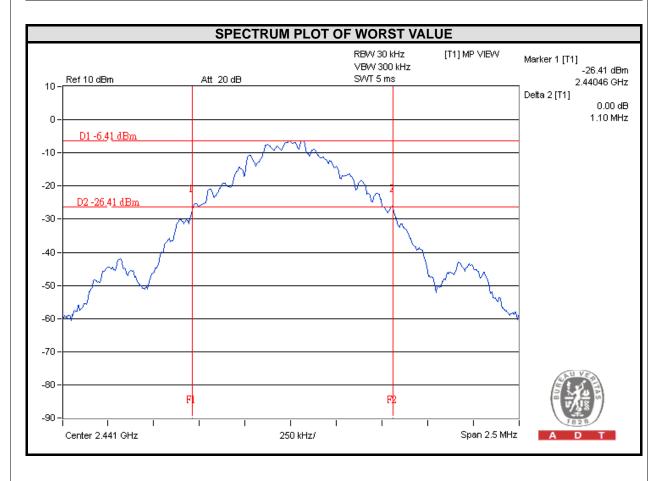
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

Report No.: RF130506D06 31 of 41 Report Format Version 5.0.1



4.5.7 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	1.04
39	2441	1.10
78	2480	1.04



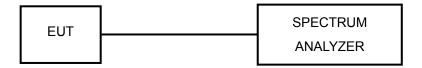


4.6 HOPPING CHANNEL SEPARATION

4.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.6.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

4.6.5 DEVIATION FROM TEST STANDARD

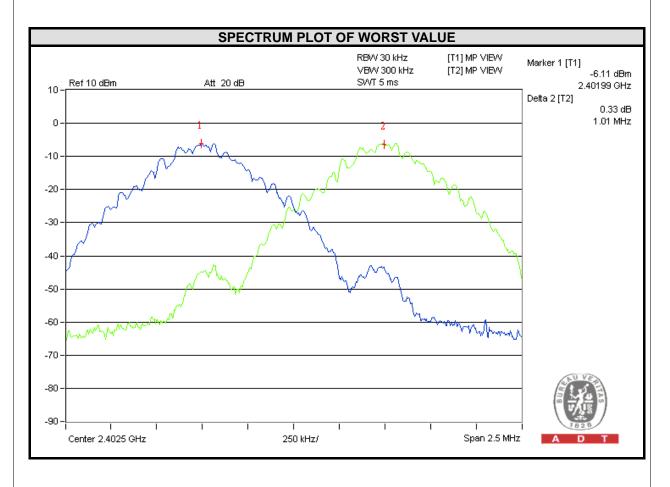
No deviation.



4.6.6 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	20dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.01	1.04	0.69	PASS
39	2441	1.00	1.10	0.73	PASS
78	2480	1.00	1.04	0.69	PASS

NOTE: The minimum limit is two-third 20dB bandwidth.



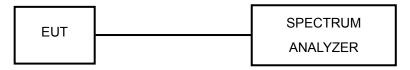


4.7 MAXIMUM OUTPUT POWER

4.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

4.7.2 TEST SETUP



4.7.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.7.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3MHz RBW and 10 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

4.7.5 DEVIATION FROM TEST STANDARD

No deviation.

4.7.6 EUT OPERATING CONDITION

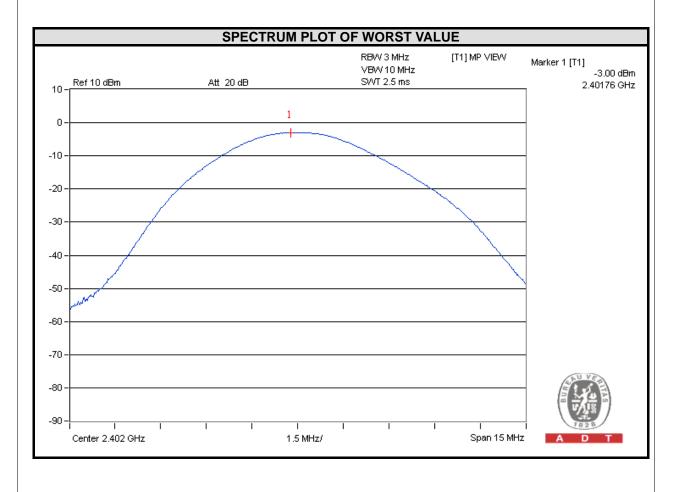
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

Report No.: RF130506D06 35 of 41 Report Format Version 5.0.1



4.7.7 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	OUTPUT POWER (dBm)	OUTPUT POWER (mW)	POWER LIMIT (mW)	PASS / FAIL
0	2402	-3.0	0.5	125	PASS
39	2441	-3.2	0.5	125	PASS
78	2480	-3.5	0.4	125	PASS





4.8 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.8.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz RBW).

4.8.2 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz & 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.8.4 DEVIATION FROM TEST STANDARD

No deviation.

4.8.5 EUT OPERATING CONDITION

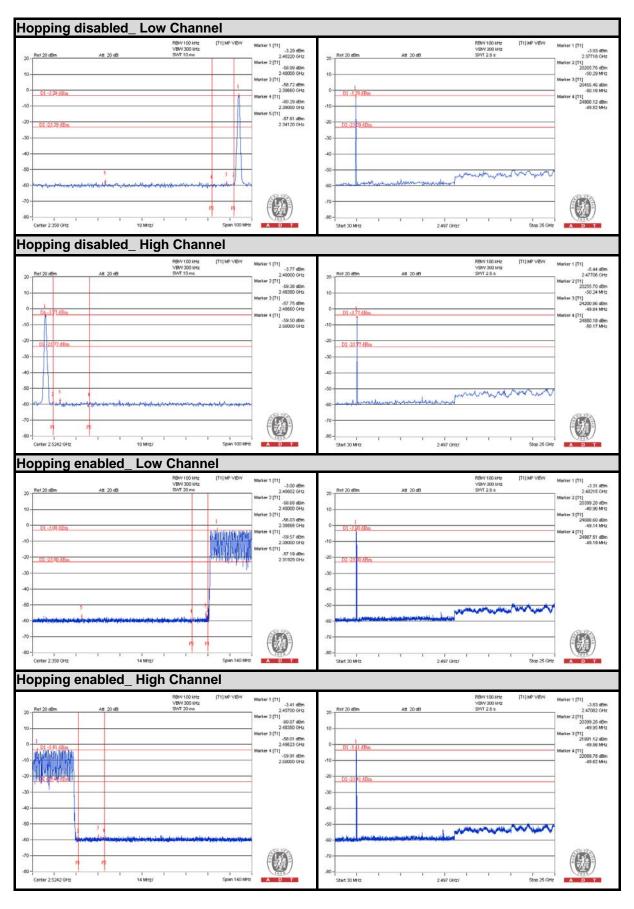
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.8.6 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

Report No.: RF130506D06 37 of 41 Report Format Version 5.0.1







5. PHOTOGRAPHS OF THE TEST CONFIGURATION

3. I HOTOGRAFIIS OF THE TEST CONFIGURATION
Please refer to the attached file (Test Setup Photo).

Report No.: RF130506D06 39 of 41 Report Format Version 5.0.1



6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26051924Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

Report No.: RF130506D06 40 of 41 Report Format Version 5.0.1



7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---

Report No.: RF130506D06 41 of 41 Report Format Version 5.0.1