

FCC Test Report (BT-LE)

Report No.: RF141112E01A-1 R1

FCC ID: MQT-XCE200WU

Test Model: xCE-200WU-UH

Series Model: xCE-200WU-U

Received Date: Dec. 29, 2014

Test Date: Dec. 29, 2014 to Jan. 27, 2015

Issued Date: Apr. 10, 2015

Applicant: XAC AUTOMATION CORP.

Address: 4F, No. 30, INDUSTRY E. RD. IX, SCIENCE-BASED INDUSTRIAL

PARK, HSINCHU, TAIWAN

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Report No.: RF141112E01A-1 R1 Page No. 1 / 38 Report Format Version: 6.1.1

Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



Table of Contents

R	Release Control Record4							
1	(Certificate of Conformity	5					
2	;	Summary of Test Results	6					
	2.1	Measurement Uncertainty						
•	2.2	Modification Record						
3		General Information						
	3.1	General Description of EUT (Bluetooth)						
	3.2 3.2.1	Description of Test Modes Test Mode Applicability and Tested Channel Detail						
	3.3	Duty Cycle of Test Signal						
	3.4	Description of Support Units						
	3.4.1							
	3.5	General Description of Applied Standards						
4		Test Types and Results						
_		•						
	4.1	Radiated Emission and Bandedge Measurement						
		Limits of Radiated Emission and Bandedge Measurement						
		Test Procedures						
		Deviation from Test Standard						
		Test Setup						
		EUT Operating Conditions						
		Test Results						
	4.2	Conducted Emission Measurement						
	4.2.1	Limits of Conducted Emission Measurement						
		Test Instruments						
		Test Procedures						
	4.2.4	Deviation from Test Standard	26					
		Test Setup						
		EUT Operating Conditions						
		Test Results						
	4.3	6dB Bandwidth Measurement						
		Limits of 6dB Bandwidth Measurement						
		Test Setup						
		Test Instruments						
		Test Procedures Deviation from Test Standard						
		EUT Operating Conditions						
		Test Results						
	4.4	Conducted Output Power Measurement						
		Limits of Conducted Output Power Measurement						
		Test Setup						
		Test Instruments						
		Test Procedures						
	4.4.5	Deviation from Test Standard	31					
		EUT Operating Conditions						
		Test Results						
	4.5	Power Spectral Density Measurement						
		Limits of Power Spectral Density Measurement						
		Test Setup						
		Test Instruments						
		Test Procedures						
		Deviation from Test Standard						
	4.0.0	EUT Operating Conditions	. 33					



4.5.7	Test Results	34			
4.6	Conducted Out of Band Emission Measurement	35			
4.6.1	Limits of Conducted Out of Band Emission Measurement	35			
4.6.2	Test Setup	35			
	Test Instruments				
4.6.4	Test Procedures	35			
	Deviation from Test Standard				
	EUT Operating Conditions				
4.6.7	Test Results	35			
5 F	ictures of Test Arrangements	37			
Append	Appendix – Information on the Testing Laboratories				



Release Control Record

Issue No. Description		Date Issued
RF141112E01A-1 Original release.		Feb. 16, 2015
RF141112E01A-1 R1	 Added the model names. Modified the antenna model name and gain. 	Apr. 10, 2015

Report No.: RF141112E01A-1 R1 Page No. 4 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



Certificate of Conformity

Product: Terminal

Brand: XAC

Test Model: xCE-200WU-UH

Series Model: xCE-200WU-U

Sample Status: ENGINEERING SAMPLE

Applicant: XAC AUTOMATION CORP.

Test Date: Dec. 29, 2014 to Jan. 27, 2015

Standards: 47 CFR 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 :	phoenix Hugny	, Date:	Apr. 10, 2015	
	Phoenix Huang / Specialist			

Approved by: Date: May Chen / Manager

Report No.: RF141112E01A-1 R1 Page No. 5 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (SECTION 15.247)							
FCC Clause	Test Item	Result	Remarks				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -6.7dB at 0.59211MHz.				
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -0.4dB at 2483.50MHz.				
15.247(d)	Antenna Port Emission	PASS	Meet the requirement of limit.				
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.				
15.247(b)	Conducted power	PASS	Meet the requirement of limit.				
15.247(e)	15.247(e) Power Spectral Density		Meet the requirement of limit.				
15.203	Antenna Requirement	PASS	No antenna connector is used.				

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	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.86 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.37 dB
	1GHz ~ 6GHz	3.65 dB
Radiated Emissions above 1 GHz	6GHz ~ 18GHz	3.88 dB
	18GHz ~ 40GHz	4.11 dB

2.2 Modification Record

There were no modifications required for compliance.

Report No.: RF141112E01A-1 R1 Page No. 6 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05

Page No. 6 / 38 Report Format Version: 6.1.1



3 General Information

3.1 General Description of EUT (Bluetooth)

Product	Terminal		
Brand	XAC		
Test Model	xCE-200WU-UH		
Series Model	xCE-200WU-U		
Status of EUT	ENGINEERING SAMPLE		
Power Supply Rating	12Vdc from power adapter		
Madulatian Tuna	GFSK, π/4-DQPSK, 8DPSK for FHSS		
Modulation Type	GFSK for DTS		
Modulation Technology	FHSS, DTS		
Transfer Rate	up to 3Mbps		
Operating Frequency	2402MHz ~ 2480MHz		
Number of Channel	BT-EDR mode: 79		
Number of Channel	BT-LE mode: 40		
Output Dawer	BT-EDR mode: 5.689mW		
Output Power	BT-LE mode: 5.794mW		
Antenna Type	Please see NOTE		
Antenna Connector	Please see NOTE		
A	Adapter × 1		
Accessory Device	Handset x 1		
Data Cable Supplied	NA		

Note:

1. The EUT has below model names, which are identical to each other in all aspects except for the following table:

Brand Name	Model No.	Description	
VAC	xCE-200WU-UH	With 3G (Voice+Data) function and has Handset.	
XAC	xCE-200WU-U	With 3G (Data) function.	

From the above models, model: **xCE-200WU-UH** was selected as representative model for the test and its data was recorded in this report.

2. WLAN, Bluetooth, GSM and WCDMA technology can transmit at same time.

3. The EUT could be supplied with a power adapter as the following table:

Brand	Model No.	Spec.		
LITEON	PA-1061-71	AC I/P: 100-240V, 50-60Hz, 1.5A AC input cable (Unshielded, 1.8m) DC O/P: 12V, 5A DC output cable(Unshielded, 1.05m, with one core)		

Report No.: RF141112E01A-1 R1 Page No. 7 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



4. The antennas provided to the EUT, please refer to the following table:

GSM / WCDMA Antenna Spec.							
Brand	Model No.	Model No. Antenna Type Co		Gain(dBi)	Frequency (MHz)		
Ethertronics Inc.	T-000084-01	FPCB	NA	0.14	850		
Ethertronics inc.	1-000064-01	ГРОВ	INA	2.57	1900		
WLAN / Bluetooth Antenna Spec.							
Brand	Model No.	Antenna Type	Antenna Connector	Gain(dBi)	Frequency (MHz)		
ACX	AT8010-E2R9HAA	Chip	NA	2.5	2400-2500		

- 5. When EUT is under LAN mode, the EUT wireless function will be disabled.
- 6. 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.

Report No.: RF141112E01A-1 R1 Page No. 8 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Report No.: RF141112E01A-1 R1 Page No. 9 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE		APPLICABLE TO		DESCRIPTION	
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
-	√	√	√	√	-

Where

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

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

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

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	0, 19, 39	GFSK	1

Radiated Emission Test (Below 1GHz):

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

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

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	0	GFSK	1

Power Line Conducted Emission Test:

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

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

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	0	GFSK	1

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, data rates and antenna ports (if EUT with antenna diversity architecture).

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

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	0, 19, 39	GFSK	1

Report No.: RF141112E01A-1 R1 Page No. 10 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	25deg. C, 71%RH	120Vac, 60Hz	Robert Cheng
RE<1G	22deg. C, 68%RH	120Vac, 60Hz	Tim Ho
PLC	24deg. C, 55%RH	120Vac, 60Hz	Wythe Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng

Report No.: RF141112E01A-1 R1 Page No. 11 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



3.3 Duty Cycle of Test Signal

Duty cycle of test signal is 100 %, duty factor is not required.



Report No.: RF141112E01A-1 R1 Page No. 12 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



3.4 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	Remark
Α	iPod shuffle	Apple	MC749TA/A	CC4DMFKUDF DM	NA	Provided by Lab
В	iPod shuffle	Apple	MD778TA/A	CC4JMA9KF4T 1	NA	Provided by Lab
С	iPod shuffle	Apple	MC749TA/A	CC4DN25WDF DM	NA	Provided by Lab
D	iPod shuffle	Apple	MC749TA/A	CC4DN29UDFD M	NA	Provided by Lab
Е	Micro SD Card	Sandisk	2GB	NA	NA	Provided by Lab
F	SIM Card	NA	NA	NA	NA	Provided by Lab
G	Telephone Line Simulator	TELTONE	TLS-5C-01	250-00193-07	NA	Provided by Lab

NOTE:

^{1.} All power cords of the above support units are non-shielded (1.8 m).

No.	Cable	Qty.	Length (m)	Shielded (Yes/ No)	Cores (Number)	Remark
1	DC	1	1.05	No	1	Supplied by Client
2	USB	1	0.1	Yes	0	Provided by Lab
3	RS232	1	1.5	Yes	0	Supplied by Client
4	RJ-45	1	10	No	0	Provided by Lab
5	RJ-11	1	1.5	No	0	Provided by Lab
6	Micro USB	1	1.5	No	0	Provided by Lab
7	RS232	1	1.5	Yes	0	Supplied by Client
8	AC	1	1.8	No	0	Supplied by Client

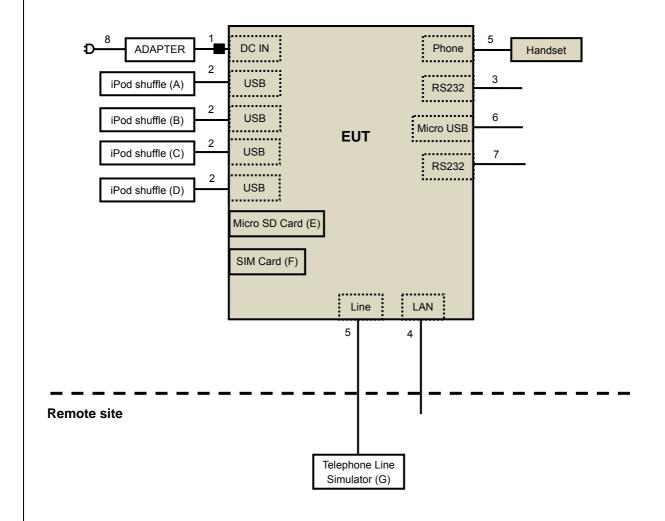
NOTE:

Report No.: RF141112E01A-1 R1 Page No. 13 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05

^{1.} The core(s) is(are) originally attached to the cable(s).



3.4.1 Configuration of System under Test





		A D T
3.5	General Description of Applied Standards	
The	e EUT is a RF Product. According to the specifications of the manufacturer, it must comply with	the
	quirements of the following standards:	
FC	C Part 15, Subpart C (15.247)	
	8074 D01 DTS Meas Guidance v03r02	
AN	ISI C63.10-2009	
All	test items have been performed and recorded as per the above standards.	

Report No.: RF141112E01A-1 R1 Page No. 15 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 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.: RF141112E01A-1 R1 Page No. 16 / 38
Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



4.1.2 Test Instruments

For Below 1GHz:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	July 21,2014	July 20,2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 12, 2014	Nov. 11, 2015
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Feb. 26, 2014	Feb. 25, 2015
RF Cable	NA	CHGCAB_001	Oct. 04, 2014	Oct. 03, 2015
Horn_Antenna AISI	AIH.8018	0000320091110	Aug. 27, 2014	Aug. 26, 2015
Pre-Amplifier Agilent	8449B	3008A02578	June 24, 2014	June 23, 2015
RF Cable	NA	131205 131214 SNMY23684/4	Jan. 17, 2014	Jan. 16, 2015
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Pre-Amplifier EMCI	EMC184045	980143	Jan. 17, 2014	Jan. 16, 2015
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Aug. 26, 2014	Aug. 25, 2015
RF Cable	NA	RF104-121 RF104-204	Dec. 11, 2014	Dec. 10, 2015
Antenna Tower & Turn Table CT	NA	NA	NA	NA

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 horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. G.
- 4. The FCC Site Registration No. is 966073.
- 5 The VCCI Site Registration No. is G-137.
- 6 The CANADA Site Registration No. is IC 7450H-2.
- 7 Tested Date: Dec. 29, 2014

Report No.: RF141112E01A-1 R1 Page No. 17 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



For Above 1GHz:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	July 21,2014	July 20,2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 12, 2014	Nov. 11, 2015
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Feb. 26, 2014	Feb. 25, 2015
RF Cable	NA	CHGCAB_001	Oct. 04, 2014	Oct. 03, 2015
Horn_Antenna AISI	AIH.8018	0000320091110	Aug. 27, 2014	Aug. 26, 2015
Pre-Amplifier Agilent	8449B	3008A02578	June 24, 2014	June 23, 2015
RF Cable	NA	131205 131214 SNMY23684/4	Jan. 16, 2015	Jan. 15, 2016
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Pre-Amplifier EMCI	EMC184045	980143	Jan. 15, 2015	Jan. 14, 2016
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Aug. 26, 2014	Aug. 25, 2015
RF Cable	NA	RF104-121 RF104-204	Dec. 11, 2014	Dec. 10, 2015
Antenna Tower & Turn Table CT	NA	NA	NA	NA
SPECTRUM ANALYZER R&S	FSP 40	100060	May 08, 2014	May 07, 2015
Power meter Anritsu	ML2495A	1014008	Apr. 30, 2014	Apr. 29, 2015
Power sensor Anritsu	MA2411B	0917122	Apr. 30, 2014	Apr. 29, 2015
Temperature & Humidity Chamber GIANTFORCE	GTH-150-40-S P-AR	MAA0812-008	Jan. 12, 2015	Jan. 11, 2016

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 horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. G.
- 4. The FCC Site Registration No. is 966073.
- 5 The VCCI Site Registration No. is G-137.
- 6 The CANADA Site Registration No. is IC 7450H-2.
- 7 Tested Date: Jan. 19, 2015



4.1.3 **Test Procedures**

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. 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.
- The height of antenna is varied from one meter to four meters above the ground to determine the C. 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.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum e. hold mode when the test frequency is below 1 GHz.
- The test-receiver system was set to peak and average detect function and specified bandwidth with f. maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 **Deviation from Test Standard**

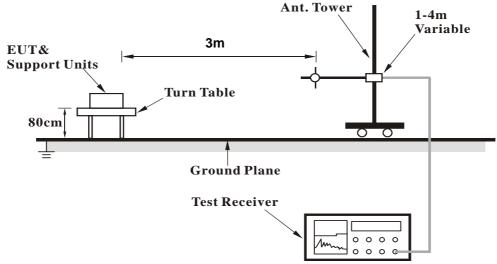
No deviation.

Report Format Version: 6.1.1

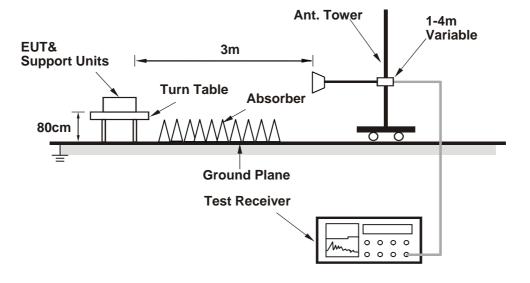


Test Setup 4.1.5

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

EUT Operating Conditions 4.1.6

- 1. The EUT which is placed on table.
- 2. The communication partner run test program "Hyper Terminal paste WiFi.txt" to enable EUT under transmission/receiving condition continuously at specific channel frequency.

Page No. 20 / 38 Report No.: RF141112E01A-1 R1 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



4.1.7 Test Results

Above 1GHz Data:

CHANNEL	TX Channel 0	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	2390.00	53.9 PK	74.0	-20.1	1.21 H	143	59.50	-5.60		
2	2390.00	34.4 AV	54.0	-19.6	1.21 H	143	40.00	-5.60		
3	*2402.00	105.7 PK			1.21 H	143	111.29	-5.59		
4	*2402.00	104.7 AV			1.21 H	143	110.29	-5.59		
5	4804.00	45.7 PK	74.0	-28.3	1.07 H	349	41.81	3.89		
6	4804.00	35.0 AV	54.0	-19.0	1.07 H	349	31.11	3.89		
		ANTENNA	A POLARITY	/ & 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	52.5 PK	74.0	-21.5	1.17 V	245	58.10	-5.60		
2	2390.00	37.4 AV	54.0	-16.6	1.17 V	245	43.00	-5.60		
3	*2402.00	100.2 PK			1.17 V	245	105.79	-5.59		
4	*2402.00	99.0 AV			1.17 V	245	104.59	-5.59		
5	4804.00	49.2 PK	74.0	-24.8	1.04 V	145	45.31	3.89		
6	4804.00	37.7 AV	54.0	-16.3	1.04 V	145	33.81	3.89		

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

Report No.: RF141112E01A-1 R1 Page No. 21 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



CHANNEL	TX Channel 19	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	*2440.00	106.3 PK			1.16 H	153	111.71	-5.41		
2	*2440.00	105.1 AV			1.16 H	153	110.51	-5.41		
3	4880.00	46.7 PK	74.0	-27.3	1.05 H	360	42.90	3.80		
4	4880.00	35.4 AV	54.0	-18.6	1.05 H	360	31.60	3.80		
5	7320.00	53.5 PK	74.0	-20.5	1.06 H	325	45.23	8.27		
6	7320.00	41.8 AV	54.0	-12.2	1.06 H	325	33.53	8.27		
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2440.00	106.3 PK			1.16 V	153	111.71	-5.41		
2	*2440.00	105.1 AV			1.16 V	153	110.51	-5.41		
3	4880.00	46.7 PK	74.0	-27.3	1.05 V	360	42.90	3.80		
4	4880.00	35.4 AV	54.0	-18.6	1.05 V	360	31.60	3.80		
5	7320.00	53.5 PK	74.0	-20.5	1.06 V	325	45.23	8.27		
6	7320.00	41.8 AV	54.0	-12.2	1.06 V	325	33.53	8.27		

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

Report No.: RF141112E01A-1 R1 Page No. 22 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Report No.: RF141112E01A-1 R1



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

		ANTENNA	POLARITY 8	& 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	*2480.00	106.0 PK			1.26 H	134	111.23	-5.23
2	*2480.00	104.9 AV			1.26 H	134	110.13	-5.23
3	2483.50	53.4 PK	74.0	-20.6	1.26 H	134	58.60	-5.20
4	2483.50	34.5 AV	54.0	-19.5	1.26 H	134	39.70	-5.20
5	4960.00	46.5 PK	74.0	-27.5	1.03 H	343	42.67	3.83
6	4960.00	35.2 AV	54.0	-18.8	1.03 H	343	31.37	3.83
7	7440.00	53.6 PK	74.0	-20.4	1.03 H	313	44.92	8.68
8	7440.00	42.0 AV	54.0	-12.0	1.03 H	313	33.32	8.68
		ANTENNA	POLARITY	/ & 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	*2480.00	99.9 PK			1.22 V	245	105.13	-5.23
2	*2480.00	98.6 AV			1.22 V	245	103.83	-5.23
3	2483.50	73.6 PK	74.0	-0.4	1.22 V	245	78.80	-5.20
4	2483.50	37.3 AV	54.0	-16.7	1.22 V	245	42.50	-5.20
5	4960.00	48.5 PK	74.0	-25.5	1.03 V	162	44.67	3.83
6	4960.00	38.0 AV	54.0	-16.0	1.03 V	162	34.17	3.83
7	7440.00	52.3 PK	74.0	-21.7	1.06 V	79	43.62	8.68
8	7440.00	42.0 AV	54.0	-12.0	1.06 V	79	33.32	8.68

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

Report No.: RF141112E01A-1 R1 Page No. 23 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Report No.: RF141112E01A-1 R1



Below 1GHz Data:

CHANNEL	TX Channel 0	DETECTOR	Overi Beak (OB)
FREQUENCY RANGE	Below 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	62.91	34.4 QP	40.0	-5.7	2.00 H	111	48.47	-14.12		
2	121.88	36.6 QP	43.5	-6.9	2.00 H	110	51.40	-14.76		
3	246.39	39.1 QP	46.0	-6.9	2.00 H	10	53.17	-14.05		
4	250.04	39.7 QP	46.0	-6.4	1.00 H	150	53.57	-13.92		
5	459.93	33.4 QP	46.0	-12.6	2.00 H	341	40.94	-7.50		
6	875.02	39.1 QP	46.0	-6.9	1.00 H	147	38.82	0.31		
		ANTENNA	A POLARITY	/ & 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	63.25	38.2 QP	40.0	-1.8	1.00 V	360	52.35	-14.17		
2	111.85	40.5 QP	43.5	-3.0	1.50 V	120	56.26	-15.77		
3	214.40	38.2 QP	43.5	-5.3	1.00 V	144	54.07	-15.83		
4	222.29	38.2 QP	46.0	-7.8	1.00 V	330	53.95	-15.73		
5	373.87	34.7 QP	46.0	-11.4	1.00 V	10	44.47	-9.82		
6	437.86	31.3 QP	46.0	-14.7	1.50 V	31	39.22	-7.89		

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value

Report No.: RF141112E01A-1 R1 Page No. 24 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



Report Format Version: 6.1.1

4.2 **Conducted Emission Measurement**

4.2.1 **Limits of Conducted Emission Measurement**

Eroguopov (MHz)	Conducted Limit (dBuV)					
Frequency (MHz)	Quasi-peak	Average				
0.15 - 0.5	66 - 56	56 - 46				
0.50 - 5.0	56	46				
5.0 - 30.0	60	50				

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

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

4.2.2 **Test Instruments**

DESCRIPTION &	MODEL NO.	SERIAL NO.	CALIBRATED	CALIBRATED	
MANUFACTURER			DATE	UNTIL	
Test Receiver	ESCS 30	100375	Apr 20 2014	Apr. 28, 2015	
ROHDE & SCHWARZ	E3C3 30	100375	Apr. 29, 2014		
Line-Impedance					
Stabilization Network	NSLK-8127	8127-522	Sep. 15, 2014	Sep. 14, 2015	
(for EUT)	NOEK OIE	0127 022	оср. 10, 2014	Зер. 14, 2013	
SCHWARZBECK					
Line-Impedance					
Stabilization Network	ENV216	100071	Nov. 10, 2014	Nov. 09, 2015	
(for Peripheral)	LINVZIO	100071	Nov. 10, 2014		
ROHDE & SCHWARZ					
RF Cable	5DFB	COCCAB-001	Mor 10 2014	Mar 00 2015	
(JYEBAO)	SDFB	COCCAB-001	Mar. 10 , 2014	Mar. 09, 2015	
50 ohms Terminator	N/A	EMC-03	Sep. 22, 2014	Sep. 21, 2015	
50 ohms Terminator	N/A	EMC-02	Sep. 30, 2014	Sep. 29, 2015	
O - ft	BV				
Software	ADT_Cond_V7.3.7.	NA	NA	NA	
ADT	3				

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. C.
- 3 The VCCI Con C Registration No. is C-3611.
- 4 Tested Date: Dec. 30, 2014

Report No.: RF141112E01A-1 R1 Page No. 25 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



4.2.3 Test Procedures

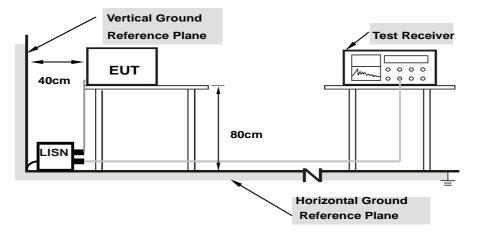
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

Report No.: RF141112E01A-1 R1 Page No. 26 / 38
Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



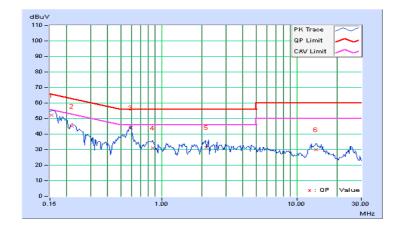
4.2.7 **Test Results**

Phase	Line (L)	Detector Function	Quasi-Peak (QP) /
riase	Line (L)	Detector i unction	Average (AV)

Frog		Corr.	Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB ((uV)]	[dB	(uV)]	[dB ((uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15462	0.07	51.99	42.89	52.06	42.96	65.75	55.75	-13.69	-12.79
2	0.21770	0.07	45.01	33.95	45.08	34.02	62.91	52.91	-17.82	-18.88
3	0.59211	0.10	43.95	39.20	44.05	39.30	56.00	46.00	-11.95	-6.70
4	0.86489	0.12	31.00	27.20	31.12	27.32	56.00	46.00	-24.88	-18.68
5	2.14620	0.19	31.20	26.10	31.39	26.29	56.00	46.00	-24.61	-19.71
6	13.89506	0.56	29.46	24.80	30.02	25.36	60.00	50.00	-29.98	-24.64

REMARKS:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



Report No.: RF141112E01A-1 R1 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05

Page No. 27 / 38 Report Format Version: 6.1.1

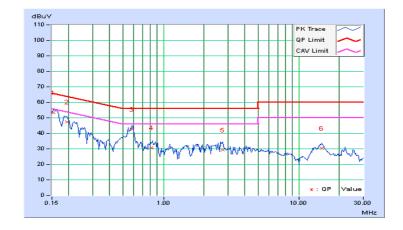


Phase	Neutral (N)	i Delecior Elinciion	Quasi-Peak (QP) / Average (AV)

	Eroa	Corr.	Readin	g Value	Emissio	n Level	Lir	mit	Mar	gin
No	Freq.	Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15415	0.06	53.45	44.50	53.51	44.56	65.77	55.77	-12.26	-11.21
2	0.19305	0.06	47.41	35.41	47.47	35.47	63.90	53.90	-16.43	-18.43
3	0.58542	0.10	42.46	37.76	42.56	37.86	56.00	46.00	-13.44	-8.14
4	0.82186	0.12	30.50	25.60	30.62	25.72	56.00	46.00	-25.38	-20.28
5	2.74254	0.21	29.10	24.54	29.31	24.75	56.00	46.00	-26.69	-21.25
6	14.70846	0.60	29.79	24.50	30.39	25.10	60.00	50.00	-29.61	-24.90

REMARKS:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



Report No.: RF141112E01A-1 R1 Page No. 28 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



4.3 **6dB Bandwidth Measurement**

Limits of 6dB Bandwidth Measurement 4.3.1

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 **Test Setup**



4.3.3 **Test Instruments**

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedures

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

4.3.5 **Deviation from Test Standard**

No deviation.

EUT Operating Conditions 4.3.6

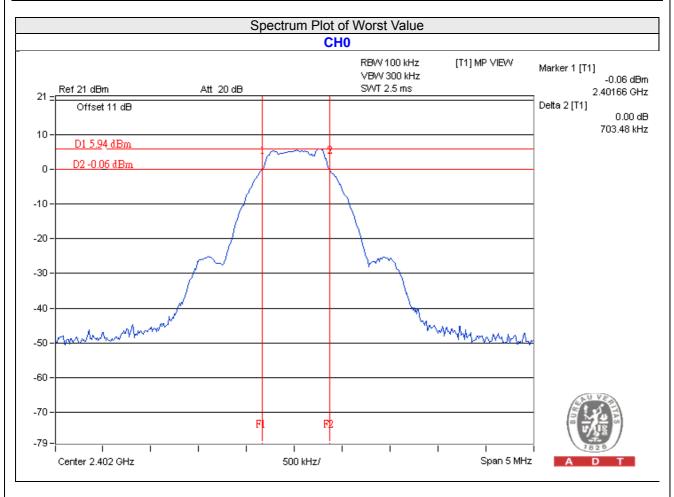
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report Format Version: 6.1.1



4.3.7 Test Results

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.70	0.5	Pass
19	2440	0.71	0.5	Pass
39	2480	0.71	0.5	Pass



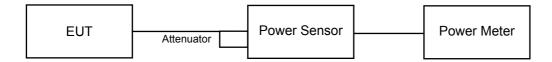


4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

The peak / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / average power sensor. Record the power level.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as Item 4.3.6.

Report No.: RF141112E01A-1 R1 Page No. 31 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



4.4.7 Test Results

FOR PEAK POWER

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
0	2402	5.794	7.63	30	Pass
19	2440	5.14	7.11	30	Pass
39	2480	4.71	6.73	30	Pass

FOR AVERAGE POWER

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	5.321	7.26
19	2440	4.688	6.71
39	2480	4.236	6.27

Report No.: RF141112E01A-1 R1 Page No. 32 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05

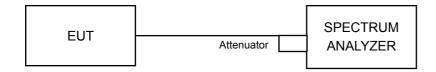


Power Spectral Density Measurement 4.5

Limits of Power Spectral Density Measurement 4.5.1

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 **Test Procedures**

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW \geq 3 × RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 **Deviation from Test Standard**

No deviation.

4.5.6 **EUT Operating Conditions**

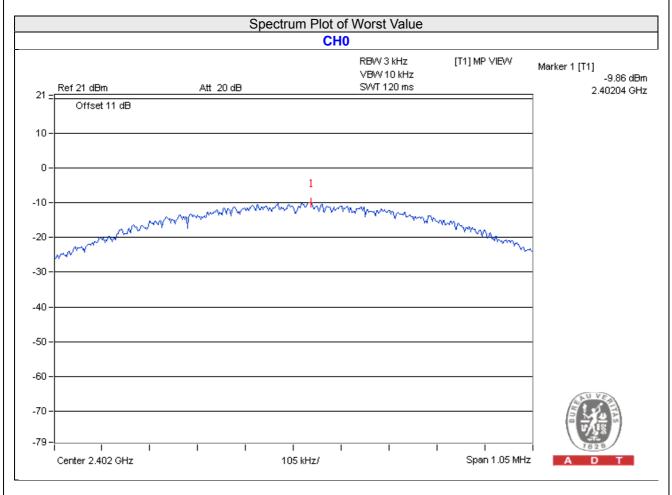
Same as Item 4.3.6

Report No.: RF141112E01A-1 R1 Page No. 33 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015



4.5.7 Test Results

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass /Fail
0	2402	-9.86	8	Pass
19	2440	-10.33	8	Pass
39	2480	-10.94	8	Pass





4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedures

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Conditions

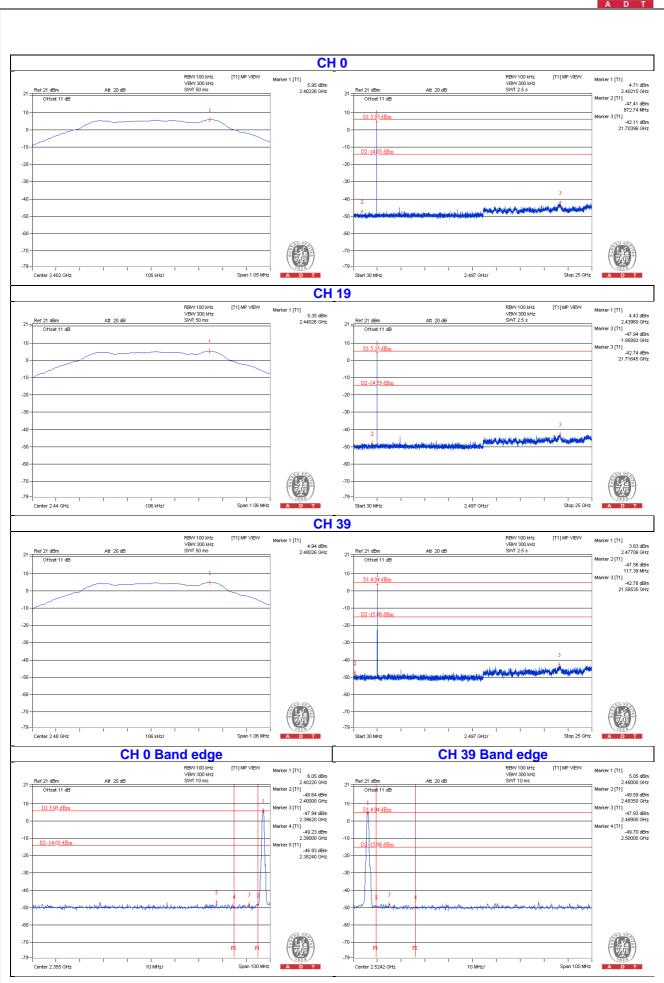
Same as Item 4.3.6

4.6.7 Test Results

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

Report No.: RF141112E01A-1 R1 Page No. 35 / 38 Report Format Version: 6.1.1







5 Pictures of Test Arrangements
Please refer to the attached file (Test Setup Photo).

Report No.: RF141112E01A-1 R1 Page No. 37 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015 Reference No.:141229E05



Appendix – 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/Telecom Lab

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety

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.

--- END ---

Report No.: RF141112E01A-1 R1 Page No. 38 / 38 Cancels and replaces the report No.: RF141112E01A-1 dated Feb. 16, 2015