

Supplemental “Transmit Simultaneously” Test Report

REPORT NO.: RF140528E02-2

MODEL NO.: R6700

FCC ID: PY313200233

RECEIVED: May 28, 2014

TESTED: June 03 to 04, 2014

ISSUED: June 18, 2014

APPLICANT: NETGEAR INC.

ADDRESS: 350 East Plumeria Drive, San Jose, CA 95134, USA

ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

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R.O.C.

TEST LOCATION (1): No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen,
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A D T

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140528E02-2	Original release	June 18, 2014



A D T

1. CERTIFICATION

PRODUCT : AC1750 Smart WiFi Router
BRAND NAME : NETGEAR
MODEL NO. : R6700
TEST ITEM: ENGINEERING SAMPLE
APPLICANT : NETGEAR INC.
TESTED: June 03 to 04, 2014
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.10-2009

The above equipment (Model: R6700) 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 : Midoli Peng , **DATE:** June 18, 2014
(Midoli Peng, Specialist)

APPROVED BY : May Chen , **DATE:** June 18, 2014
(May Chen, Manager)



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -5.27dB at 0.15163MHz
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -6.2dB at 50.66MHz

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:

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

Measurement	Value
Conducted emissions	2.86 dB
Radiated emissions (30MHz-1GHz)	5.37 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	AC1750 Smart WiFi Router
MODEL NO.	R6700
POWER SUPPLY	DC 12V from adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only
MODULATION TECHNOLOGY	DSSS,OFDM
TRANSFER RATE	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 450Mbps 802.11ac: up to 1300Mbps
OPERATING FREQUENCY	For 15.407 5GHz: 5.18 ~ 5.24GHz
	For 15.247 2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.745 ~ 5.825GHz
NUMBER OF CHANNEL	For 15.407 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)
	For 15.247 (2.4GHz) 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40) For 15.247 (5GHz) 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)
ANTENNA TYPE	Please see NOTE
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	Adapter x1

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the original design is as the following information:

- u There are board changes (depopulation), Firmware changes, Housing back panel changes and documentation changes:
 - a. Remove USB 2.0 from the back. Depopulation from the current board
 - b. Remove support for 2.4G 256QAM
 - c. Change model name from R7000 to R6700
 - d. LED icon for USB 2.0 changed to Guest Wifi

2. 2.4GHz and 5GHz technology can transmit at same time.

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

Transmitter Circuit	Antenna Type	Antenna Gain (dBi)	Frequency range (GHz to GHz)	Connector Type
Chain (0)	Dipole	0.6	2.4~2.4835	R-SMA
		0.9	5.15~5.85	
Chain (1)	Dipole	0.6	2.4~2.4835	R-SMA
		0.9	5.15~5.85	
Chain (2)	Dipole	0.6	2.4~2.4835	R-SMA
		0.9	5.15~5.85	

4. The EUT must be supplied with a power adapter and following two different models could be chosen:

No.	Brand	Model No.	Spec.
1	NETGEAR	AD898F20	Input: 100-240Vac, 50/60Hz, 1A Output: DC 12V, 3.5A
2	NETGEAR	2AAF042F NA	Input: 100-240Vac, 50/60Hz, 1.5A Output: DC 12V, 3.5A

5. The EUT incorporates a MIMO function.

MODULATION MODE	Data Rate (MCS)	Tx & Rx configuration		CDD mode	Beamforming mode
802.11a	6 ~ 54Mbps	3Tx	3Tx	Yes	No
802.11b	1 ~ 11Mbps	3Tx	3Tx	Yes	No
802.11g	6 ~ 54Mbps	3Tx	3Tx	Yes	No
802.11n (HT20)	MCS 0~7	3Tx	3Tx	Yes	Yes
	MCS 8~15	3Tx	3Tx	Yes	Yes
	MCS 16~23	3Tx	3Tx	Yes	Yes
802.11n (HT40)	MCS 0~7	3Tx	3Tx	Yes	Yes
	MCS 8~15	3Tx	3Tx	Yes	Yes
	MCS 16~23	3Tx	3Tx	Yes	Yes
802.11ac (VHT20)	MCS0~7 Nss=1	3Tx	3Tx	Yes	Yes
	MCS0~7 Nss=2	3Tx	3Tx	Yes	Yes
	MCS0~7 Nss=3	3Tx	3Tx	Yes	Yes
802.11ac (VHT40)	MCS0~7 Nss=1	3Tx	3Tx	Yes	Yes
	MCS0~7 Nss=2	3Tx	3Tx	Yes	Yes
	MCS0~7 Nss=3	3Tx	3Tx	Yes	Yes
802.11ac (VHT80)	MCS0~7 Nss=1	3Tx	3Tx	Yes	Yes
	MCS0~7 Nss=2	3Tx	3Tx	Yes	Yes
	MCS0~7 Nss=3	3Tx	3Tx	Yes	Yes

Note: The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2)

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

3.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

Simultaneously Transmission Mode (WLAN 2.4GHz + BT)

EUT configure mode	Applicable to		Description
	PLC	RE<1G	
Mode 1	√	√	With adapter 1
Mode 2	-	√	With adapter 2

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz

POWER LINE CONDUCTED EMISSION TEST:

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
2.4 GHz (802.11n (HT20)) + 5 GHz (802.11ac(VHT20))	1 to 13	6	OFDM	BPSK
	149 to 165	149	OFDM	BPSK

RADIATED EMISSION TEST:

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
2.4 GHz (802.11n (HT20)) + 5 GHz (802.11ac(VHT20))	1 to 13	6	OFDM	BPSK
	149 to 165	149	OFDM	BPSK

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
PLC	25deg. C, 70%RH	120Vac, 60Hz	Mike Hsieh
RE<1G	23deg. C, 70%RH	120Vac, 60Hz	Gary Cheng

3.3 DESCRIPTION OF SUPPORT UNITS

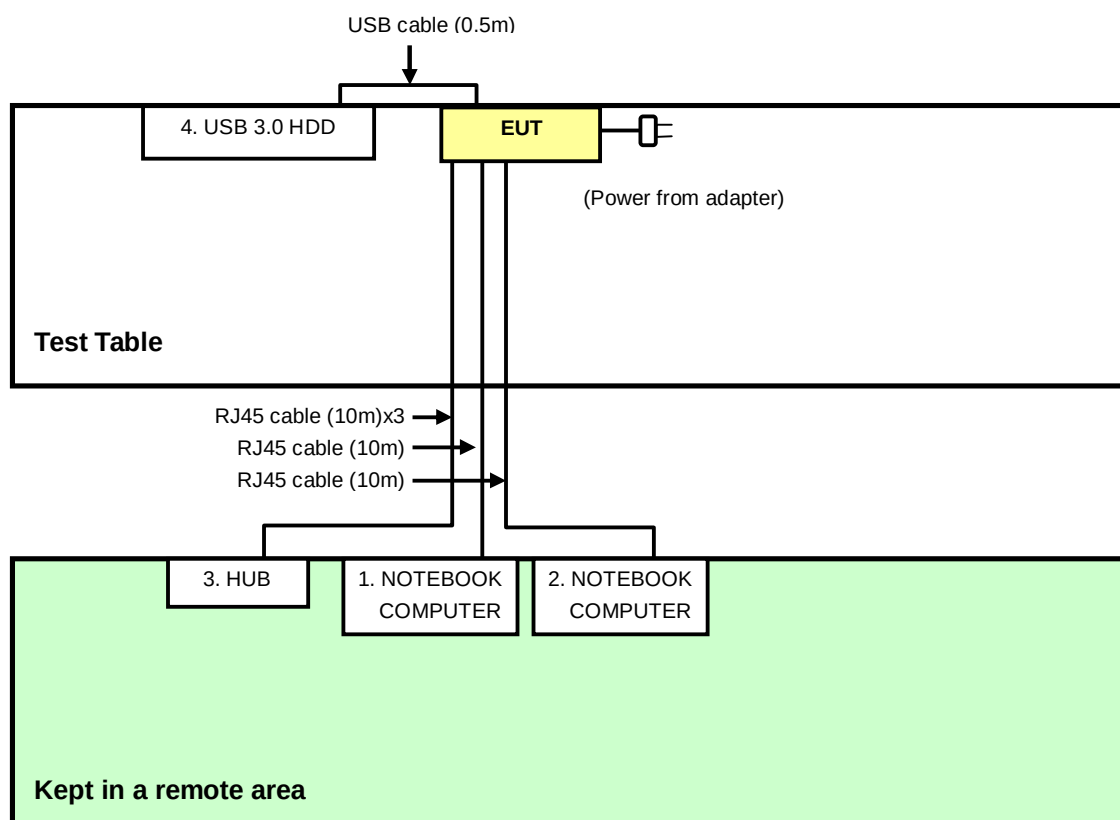
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP32LA	FSLB32S	FCC DoC
2	NOTEBOOK COMPUTER	DELL	E5430	HYV4VY1	FCC DoC
3	HUB	ZyXEL	ES-116P	S060H02000215	FCC DoC
4	USB 3.0 HDD	WD	WDBACW0010H BK-SESN	WCAZAL625787	FCC DoC

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	UTP cable, 10m
2	UTP cable, 10m
3	UTP cable, 10m
4	USB cable, 0.5m

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

3.4 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	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.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver LIG NEX1	ER-265	L09068005	July 22, 2013	July 21, 2014
Pulse Limiter SCHWARZBECK	VTSD 9561F	9607	Mar. 06, 2014	Mar. 05, 2015
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK8127	8127-522	Sep. 05, 2013	Sep. 04, 2014
Line-Impedance Stabilization Network (for Peripheral)	ENV216	100072	June 06, 2013	June 05, 2014
RF Cable (JYEBAO)	5DFB	CONCAB-003	Mar. 07, 2014	Mar. 06, 2015
50 ohms Terminator	50	EMC-03	Sep. 24, 2013	Sep. 23, 2014
Software ADT	BV ADT_Cond_V7.3.7. 3	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 test was performed in Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: June 03, 2014

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.
- b. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- c. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- d. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

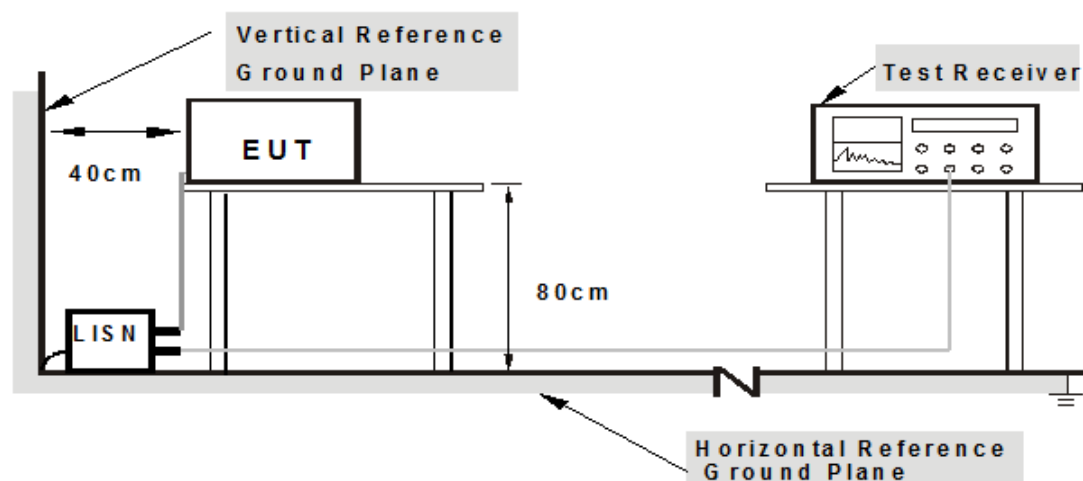
NOTE:

1. The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) & Average detection (AV).

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

1. Placed the EUT on testing table.
2. Prepared computer system (support units 1 ~ 2) to act as communication partner.
3. The communication partner ran test program “MTool.exe [2.0.0.8]” to enable EUT under transmission/receiving condition continuously.

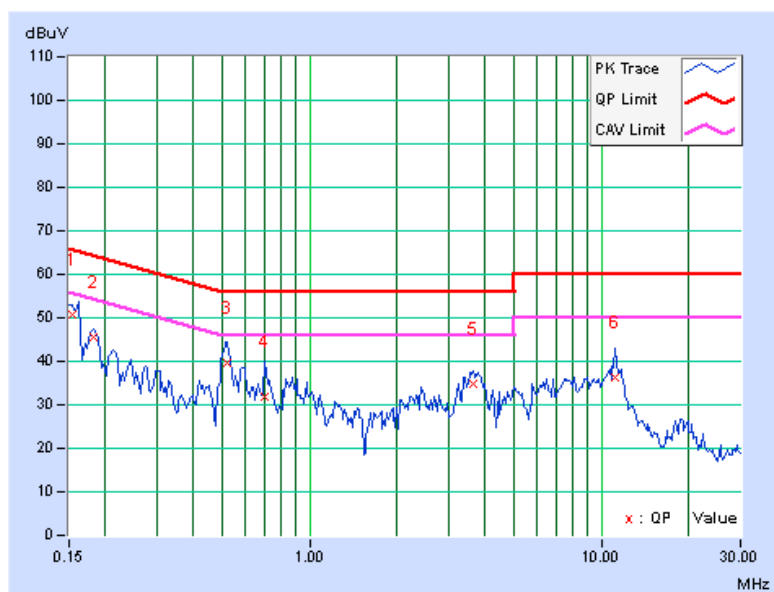
4.1.7 TEST RESULTS (Mode 1)

PHASE	Line (L)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.07	50.62	43.47	50.69	43.54	65.79	55.79	-15.10	-12.25
2	0.18125	0.07	45.58	37.85	45.65	37.92	64.43	54.43	-18.78	-16.51
3	0.52500	0.10	39.42	34.87	39.52	34.97	56.00	46.00	-16.48	-11.03
4	0.70078	0.11	31.60	26.58	31.71	26.69	56.00	46.00	-24.29	-19.31
5	3.62500	0.24	34.75	27.98	34.99	28.22	56.00	46.00	-21.01	-17.78
6	11.10938	0.48	35.91	30.86	36.39	31.34	60.00	50.00	-23.61	-18.66

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

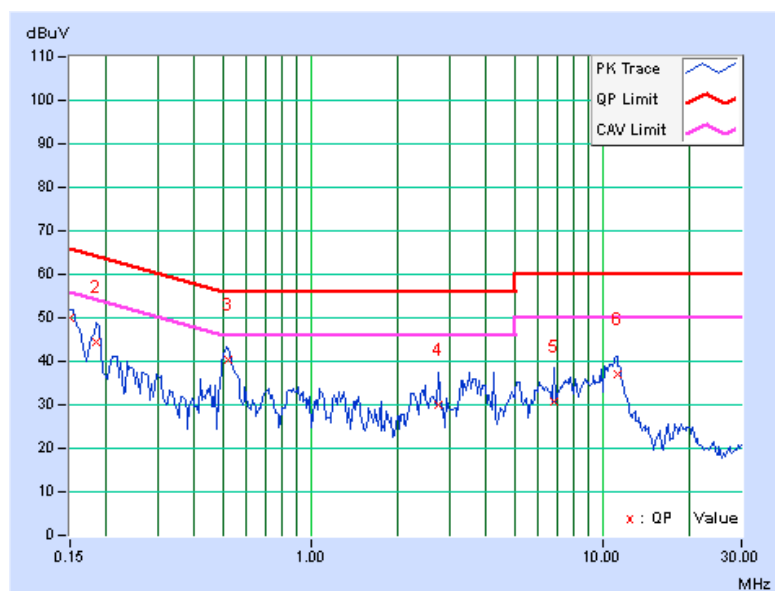


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.08	49.96	42.84	50.04	42.92	66.00	56.00	-15.96	-13.08
2	0.18516	0.07	44.37	36.97	44.44	37.04	64.25	54.25	-19.81	-17.21
3	0.52109	0.10	40.38	36.82	40.48	36.92	56.00	46.00	-15.52	-9.08
4	2.75391	0.21	29.84	23.91	30.05	24.12	56.00	46.00	-25.95	-21.88
5	6.83203	0.35	30.36	24.79	30.71	25.14	60.00	50.00	-29.29	-24.86
6	11.21875	0.48	36.51	31.40	36.99	31.88	60.00	50.00	-23.01	-18.12

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



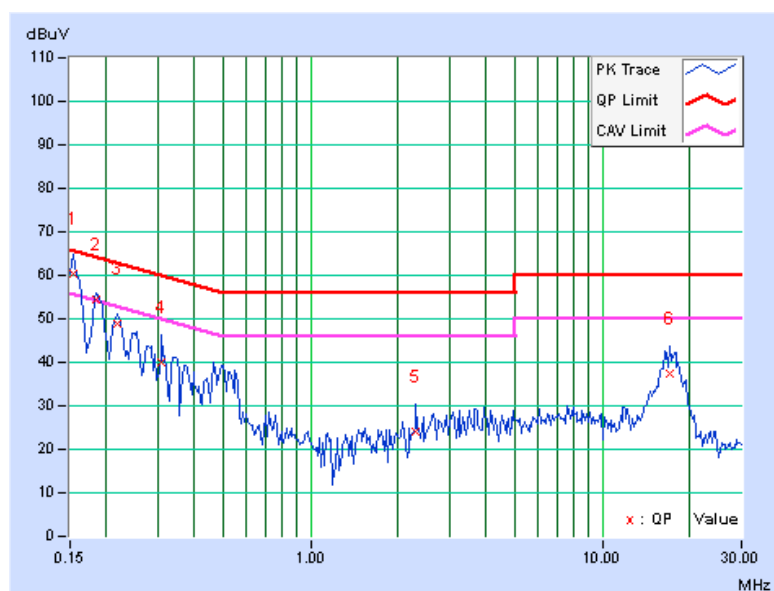
4.1.8 TEST RESULTS (Mode 2)

PHASE	Line (L)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15488	0.07	60.27	49.19	60.34	49.26	65.73	55.73	-5.40	-6.48
2	0.18516	0.07	54.22	42.62	54.29	42.69	64.25	54.25	-9.96	-11.56
3	0.21641	0.07	48.97	37.57	49.04	37.64	62.96	52.96	-13.91	-15.31
4	0.31016	0.08	40.03	29.14	40.11	29.22	59.97	49.97	-19.86	-20.75
5	2.30469	0.18	23.93	16.77	24.11	16.95	56.00	46.00	-31.89	-29.05
6	16.97656	0.64	36.61	30.17	37.25	30.81	60.00	50.00	-22.75	-19.19

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

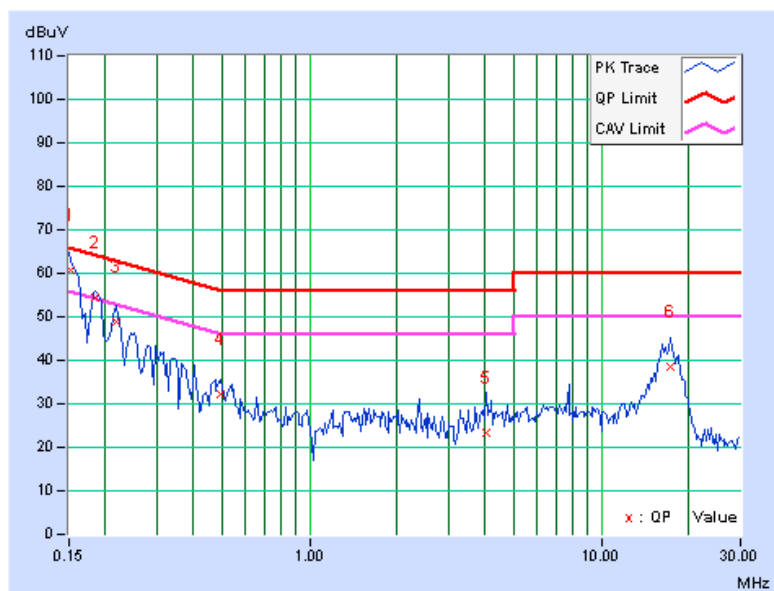


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15163	0.07	60.57	47.11	60.64	47.18	65.91	55.91	-5.27	-8.73
2	0.18516	0.07	54.34	42.67	54.41	42.74	64.25	54.25	-9.84	-11.51
3	0.21641	0.07	48.95	36.95	49.02	37.02	62.96	52.96	-13.93	-15.93
4	0.49375	0.10	32.28	23.12	32.38	23.22	56.10	46.10	-23.73	-22.89
5	4.02344	0.26	23.10	14.41	23.36	14.67	56.00	46.00	-32.64	-31.33
6	17.36328	0.64	37.70	31.41	38.34	32.05	60.00	50.00	-21.66	-17.95

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION 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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	Jan. 21,2014	Jan. 20,2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Feb. 26, 2014	Feb. 25, 2015
RF Cable	NA	CHGCAB_001	Oct. 05, 2013	Oct. 04, 2014
Spectrum Analyzer R&S	FSV40	100964	July 15, 2013	July 14, 2014
Horn_Antenna AISI	AIH.8018	0000320091110	Nov. 18, 2013	Nov. 17, 2014
Pre-Amplifier Agilent	8449B	3008A02578	June 25, 2013	June 24, 2014
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 12, 2013	Dec. 11, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 28, 2013	Aug. 27, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 08, 2013	Oct. 07, 2014
Software	ADT_Radiated V8.7.07	NA	NA	NA
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: June 04, 2014

4.2.3 TEST PROCEDURES

- a. 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.
- 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with 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.

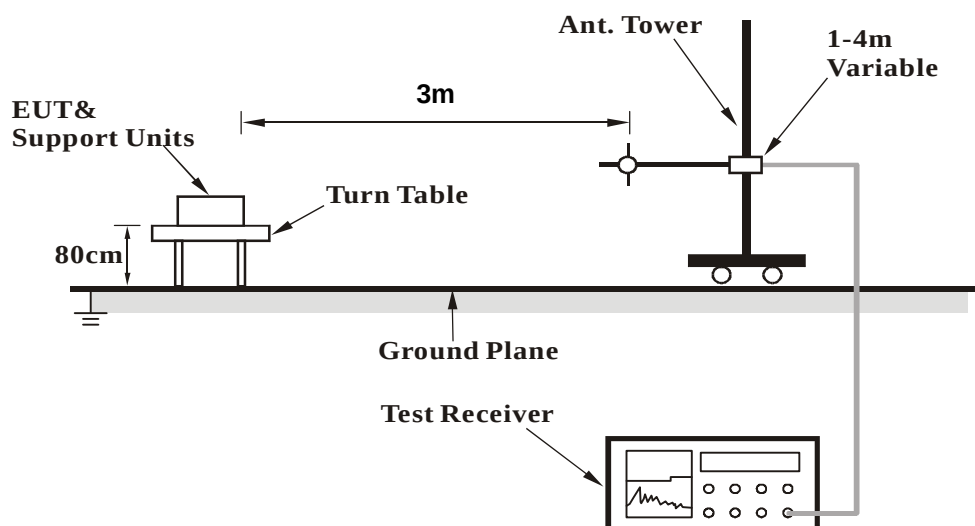
NOTE:

1. 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.
3. 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 ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. 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 related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



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4.2.7 TEST RESULTS

BELOW 1GHz DATA :

FREQUENCY RANGE	Below 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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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	135.50	30.5 QP	43.5	-13.0	2.00 H	98	44.47	-13.97
2	151.10	28.0 QP	43.5	-15.5	2.00 H	79	41.13	-13.13
3	200.05	31.3 QP	43.5	-12.2	1.50 H	107	47.60	-16.30
4	500.02	33.3 QP	46.0	-12.7	1.50 H	329	40.66	-7.36
5	600.02	31.2 QP	46.0	-14.8	1.50 H	326	36.09	-4.89
6	749.97	29.6 QP	46.0	-16.4	1.00 H	307	31.52	-1.94
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	35.28	33.3 QP	40.0	-6.7	1.00 V	107	47.62	-14.30
2	50.66	33.8 QP	40.0	-6.2	1.00 V	119	47.36	-13.56
3	61.92	29.8 QP	40.0	-10.2	1.50 V	0	44.17	-14.37
4	150.69	28.1 QP	43.5	-15.4	1.50 V	0	41.25	-13.13
5	500.02	34.5 QP	46.0	-11.5	1.00 V	222	41.86	-7.36
6	600.02	31.6 QP	46.0	-14.4	2.00 V	360	36.49	-4.89

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



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4. 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.

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Web Site: www.bureauveritas-adt.com

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

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