

FCC TEST REPORT (15.407)

REPORT NO.: RF110907E02R-1

MODEL NO.: AR5B22

FCC ID: PPD-AR5B22

IC: 4104A-AR5B22

RECEIVED: Jan. 23, 2013

TESTED: Jan. 29 to Feb. 04, 2013

ISSUED: Feb. 08, 2013

APPLICANT: Qualcomm Atheros, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd.,
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF110907E02R-1	Original release	Feb. 08, 2013

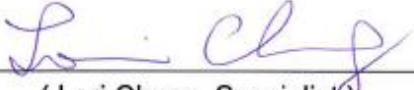


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1. CERTIFICATION

PRODUCT: PCIE 802.11a/b/g/n 2.4GHz/5GHz + USB BT 4.0 card
BRAND NAME: Atheros
MODEL NO.: AR5B22
TEST SAMPLE: R&D SAMPLE
APPLICANT: Qualcomm Atheros, Inc.
TESTED: Jan. 29 to Feb. 04, 2013
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10-2009
Canada RSS-210 Issue 8 (2010-12)
Canada RSS-Gen Issue 3 (2010-12)

The above equipment (Model: AR5B22) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and was in 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 : , **DATE:** Feb. 08, 2013
(Lori Chung, Specialist)

APPROVED BY : , **DATE:** Feb. 08, 2013
(May Chen, Deputy Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407) ; RSS-210; RSS-Gen				
STANDARD SECTION		TEST TYPE	RESULT	REMARK
FCC Part 15	RSS-210; RSS-Gen			
15.207	RSS-Gen 7.2.4	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -7.08dB at 0.19297MHz
15.407(b/1/ 2/3) (b)(6)	RSS-210 A9.2	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.1dB at 17100.00MHz.
15.407 (a/1/2)	RSS-210 A9.2	Transmit Power	PASS	Meet the requirement of limit.

NOTE:

1. There are Bluetooth technology and WLAN technology used for the EUT. (The Bluetooth test data please refer "RF110907E02R-2 ")
2. For WLAN: The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz. For the 2400 ~ 2483.5MHz and 5.725~5.850GHz RF parameters was recorded in another test report. (RF110907E02R).
3. The DFS report was recorded in another test report<Report No.: RF110907E02-3>.
4. This report is prepared for FCC class II change and IC reassessment change. Only conducted emission / radiated emission / conducted power were presented in this test report.

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	2.98 dB
Radiated emissions (30MHz-1GHz)	5.63 dB
Radiated emissions (1GHz -6GHz) – Chamber G	3.73 dB
Radiated emissions (1GHz -6GHz) – Chamber H	3.54 dB
Radiated emissions (6GHz -18GHz) – Chamber G	3.90 dB
Radiated emissions (6GHz -18GHz) – Chamber H	4.08 dB
Radiated emissions (18GHz -40GHz)	4.11 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	PCIE 802.11a/b/g/n 2.4GHz/5GHz + USB BT 4.0 card
MODEL NO.	AR5B22
FCC ID	PPD-AR5B22
IC	4104A-AR5B22
POWER SUPPLY	DC 3.3V from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM GFSK(BT <LE> mode) for DSSS
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: up to 11Mbps 802.11a / g: up to 54Mbps 802.11n : up to 300Mbps Bluetooth(LE mode): 1Mbps
OPERATING FREQUENCY	For 15.407 802.11a: 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.5~5.58GHz & 5.66~5.7GHz
	For 15.247 802.11b & 802.11g: 2.412 ~ 2.462GHz 802.11a: 5.745 ~ 5.825GHz Bluetooth(LE mode): 2.402 ~ 2.480GHz
NUMBER OF CHANNEL	For 15.407 16 for 802.11a, 802.11n (HT20) 7 for 802.11n (HT40)
	For 15.247(2.4GHz) 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40) 40 (37 hopping + 3 advertising channel) for Bluetooth(LE mode) For 15.247(5GHz) 5 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40)

MAXIMUM OUTPUT POWER	For 15.407 802.11a: 99.255mW 802.11n (HT20): 68.219mW 802.11n (HT40): 64.993mW For 15.247(2.4GHz) 802.11b: 174.377mW 802.11g: 478.630mW 802.11n (HT20): 459.666mW 802.11n (HT40): 323.809mW Bluetooth(LE mode): 2.228mW For 15.247(5GHz) 802.11a: 195.654mW 802.11n (HT20): 216.800mW 802.11n (HT40): 210.815mW
ANTENNA TYPE	See item 3.2
ANTENNA CONNECTOR	See item 3.2
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

- This report is prepared for FCC class II permissive change and IC reassessment change. The difference compared with the Report No.: RF110907E02I-1 R1 design is as the following information:
 - u Add shielded cover.
 - u HW version CUS217
- There are Bluetooth technology and WLAN technology used for the EUT. <the Bluetooth test data please refer "RF110907E02R-2 ">
- The device has three configurations (working mode)
 - WLAN only (2x2 MIMO)
 - BT+WLAN (2x2 MIMO) with reduced power on WLAN
 - BT+WLAN (1x1 mode on a/b/g only, chain 0 is used for BT and chain 1 is used for WLAN)
- This device support the power back off (For WLAN only mode.) for WLAN/BT coexist mode. The WiFi output power will reduce 5dB from Maximum power for WLAN and BT simultaneously transmission.

5. The EUT is 2 * 2 MIMO with 11n beam forming function.

MODULATION MODE	TX/RX FUNCTION
802.11b	1TX/1RX or 2TX/2RX
802.11g	1TX/1RX or 2TX/2RX
802.11a	1TX/1RX or 2TX/2RX
802.11n (HT20)	2TX/2RX
802.11n (HT40)	2TX/2RX

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

3.2 DESCRIPTION OF ANTENNA

There is one set of antenna provided to this EUT, please refer to the following table:

No.	Brand	Model	Antenna Type	Connector	Antenna Gain (dBi)< included cable loss>			
					For 2.4GHz	For 5GHz (5.15~5.35)	For 5GHz (5.47~5.725)	For 5GHz (5.725~5.850)
1&2	WNC	81.EBJ15.005	PIFA	IPEX	3.62	3.08	4.76	4.76

Cable Loss:

No.	Brand	Model	Cable Loss(dB)				Cable Length
			For 2.4GHz	For 5GHz (5.15~5.35)	For 5GHz (5.47~5.725)	For 5GHz (5.725~5.850)	
1&2	WNC	81-EBJ15.005	1.15	1.70	1.74	1.79	300

Note: Above antenna gains of antenna are Total (H+V).

3.3 DESCRIPTION OF TEST MODES

Operated in 5150MHz ~ 5350MHz bands:

Eight channels are provided for 802.11a and 802.11n (HT20):

CHANNEL	FREQUENCY
36	5180 MHz
40	5200 MHz
44	5220 MHz
48	5240 MHz
52	5260 MHz
56	5280 MHz
60	5300 MHz
64	5320 MHz

Four channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY
38	5190 MHz
46	5230 MHz
54	5270 MHz
62	5310 MHz

Operated in 5470MHz ~ 5600MHz & 5650MHz ~ 5725MHz bands:

Eight channels are provided for 802.11a and 802.11n (HT20):

CHANNEL	FREQUENCY
100	5500 MHz
104	5520 MHz
108	5540 MHz
112	5560 MHz
116	5580 MHz
132	5660 MHz
136	5680 MHz
140	5700 MHz

Three channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY
102	5510 MHz
110	5550 MHz
134	5670 MHz

3.3.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

Where **PLC**: Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ≥ 1G: Radiated Emission above 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, data rates and antenna ports (if EUT with antenna diversity architecture).

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
For 5 GHz 802.11a	36 to 140	60	OFDM	6

RADIATED EMISSION TEST (BELOW 1 GHz):

- ☒ 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
For 5 GHz 802.11a	36 to 140	60	OFDM	6

RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	6
For 5 GHz 802.11n (HT20)	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	6.5
For 5 GHz 802.11n (HT40)	38 to 134	38, 46, 54, 62, 102, 110, 134	OFDM	13.5

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	6
For 5 GHz 802.11n (HT20)	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	6.5
For 5 GHz 802.11n (HT40)	38 to 134	38, 46, 54, 62, 102, 110, 134	OFDM	13.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
PLC	25deg. C, 51%RH	120Vac, 60Hz	Jason Huang
RE<1G	24deg. C, 67%RH	120Vac, 60Hz	Amos Chuang
RE ³ 1G	23deg. C, 71%RH	120Vac, 60Hz	Amos Chuang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Amos Chuang

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 E (Section 15.407)

789033 D01 General UNII Test Procedures

662911 D01 Multiple Transmitter Output

ANSI C63.10-2009

Canada RSS-210 Issue 8 (2010-12)

Canada RSS-Gen Issue 3 (2010-12)

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.5 DESCRIPTION OF SUPPORT UNITS

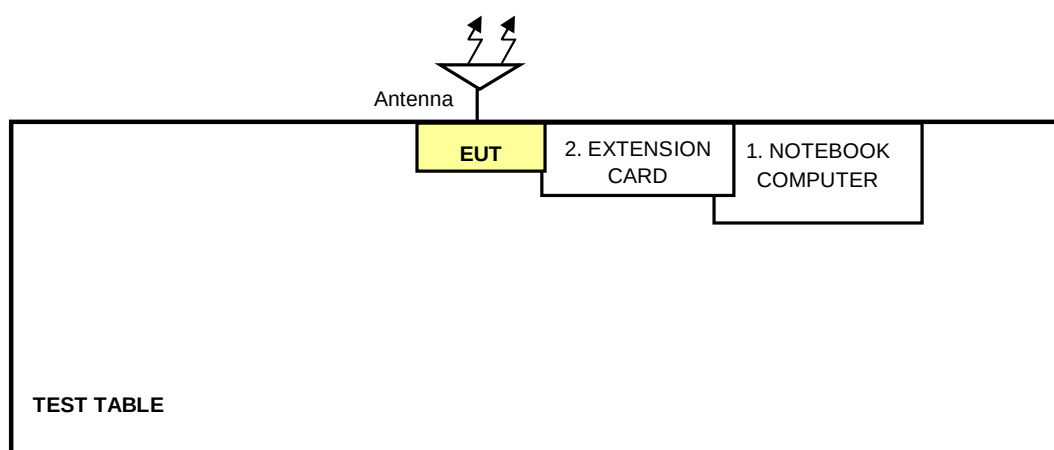
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP32LA	FSLB32S	FCC DoC
2	EXTENSION CARD	Atheros	NA	NA	NA

No.	Signal cable description
1	NA
2	NA

Note: The power cords of the above support units were unshielded (1.8m).

3.6 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 TRANSMIT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15 – 5.25GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.47 – 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

NOTE: Where B is the 26dB emission bandwidth in MHz.

Per KDB 662911 D01 Multiple Transmitter Output v01r02 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power Meter	ML2495A	0824006	May 10, 2012	May 09, 2013
Average Power Sensor	MA2411B	0738172	May 10, 2012	May 09, 2013

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. Tested date : Feb. 04, 2013

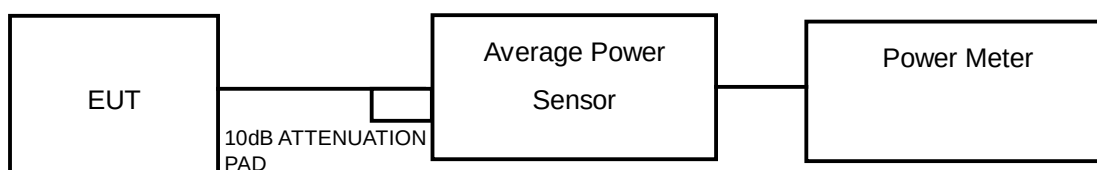
4.1.3 TEST PROCEDURE

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



4.1.6 EUT OPERATING CONDITIONS

The software(artgui.exe) provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.1.7 TEST RESULTS

Single chain - 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	OUTPUT POWER (mW)	OUTPUT POWER (dBm)	OUTPUT POWER LIMIT (dBm)	PASS/FAIL
36	5180	27.040	14.32	17	PASS
40	5200	29.376	14.68	17	PASS
48	5240	28.249	14.51	17	PASS
52	5260	89.125	19.50	24	PASS
60	5300	95.499	19.80	24	PASS
64	5320	56.234	17.50	24	PASS
100	5500	29.376	14.68	24	PASS
116	5580	57.544	17.60	24	PASS
132	5660	50.119	17.00	24	PASS
140	5700	23.550	13.72	24	PASS

Multiple chain - 802.11a

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	11.60	11.66	29.109	14.64	17	PASS
40	5200	11.58	11.37	28.097	14.49	17	PASS
48	5240	11.75	11.43	28.862	14.60	17	PASS
52	5260	17.20	16.70	99.255	19.97	24	PASS
60	5300	17.30	16.50	98.371	19.93	24	PASS
64	5320	16.53	16.72	91.967	19.64	24	PASS
100	5500	11.10	10.32	23.647	13.74	24	PASS
116	5580	14.28	13.45	48.923	16.90	24	PASS
132	5660	15.60	14.40	63.850	18.05	24	PASS
140	5700	10.21	9.05	18.530	12.68	24	PASS

802.11n (HT20)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	11.10	11.30	26.372	14.21	17	PASS
40	5200	11.20	11.50	27.308	14.36	17	PASS
48	5240	11.41	11.30	27.326	14.37	17	PASS
52	5260	14.15	14.31	52.979	17.24	24	PASS
60	5300	12.91	14.21	45.906	16.62	24	PASS
64	5320	13.70	14.11	49.205	16.92	24	PASS
100	5500	13.70	13.50	45.829	16.61	24	PASS
116	5580	15.50	14.70	64.993	18.13	24	PASS
132	5660	15.80	14.80	68.219	18.34	24	PASS
140	5700	12.60	11.30	31.687	15.01	24	PASS

802.11n (HT40)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	11.10	11.30	26.372	14.21	17	PASS
46	5230	11.20	11.50	27.308	14.36	17	PASS
54	5270	11.41	11.30	27.326	14.37	24	PASS
62	5310	14.15	14.31	52.979	17.24	24	PASS
102	5510	12.91	14.21	45.906	16.62	24	PASS
110	5550	13.70	14.11	49.205	16.92	24	PASS
134	5670	15.50	14.70	64.993	18.13	24	PASS

4.2 AVERAGE OUTPUT POWER

4.2.1 FOR REFERENCE.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power Meter	ML2495A	0824006	May 10, 2012	May 09, 2013
Average Power Sensor	MA2411B	0738172	May 10, 2012	May 09, 2013

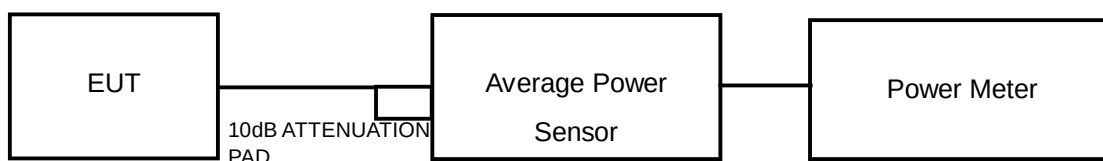
Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date : Feb. 04, 2013

4.2.3 TEST PROCEDURES

1. The transmitter output was connected to the power meter through an attenuator, the bandwidth of the fundamental frequency was measured with the power meter.
2. Record the average power level.

4.2.4 TEST SETUP



4.2.5 EUT OPERATING CONDITIONS

Same as Item 4.1.6

4.2.6 TEST RESULTS

Single chain - 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER OUTPUT (dBm)
36	5180	14.32
40	5200	14.68
48	5240	14.51
52	5260	19.50
60	5300	19.80
64	5320	17.50
100	5500	14.68
116	5580	17.60
132	5660	17.00
140	5700	13.72

Multiple chain - 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER OUTPUT (dBm)		AVERAGE POWER OUTPUT (dBm)
		Chain(0)	Chain(1)	
36	5180	11.60	11.66	14.64
40	5200	11.58	11.37	14.49
48	5240	11.75	11.43	14.60
52	5260	18.00	17.70	20.86
60	5300	18.50	18.30	21.41
64	5320	16.53	16.72	19.64
100	5500	11.10	10.32	13.74
116	5580	14.28	13.45	16.90
132	5660	15.60	14.40	18.05
140	5700	10.21	9.05	12.68

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER OUTPUT (dBm)		AVERAGE POWER OUTPUT (dBm)
		Chain(0)	Chain(1)	
36	5180	11.10	11.30	14.21
40	5200	11.20	11.50	14.36
48	5240	11.41	11.30	14.37
52	5260	14.15	14.31	17.24
60	5300	12.91	14.21	16.62
64	5320	13.70	14.11	16.92
100	5500	13.70	13.50	16.61
116	5580	15.50	14.70	18.13
132	5660	15.80	14.80	18.34
140	5700	12.60	11.30	15.01

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER OUTPUT (dBm)		AVERAGE POWER OUTPUT (dBm)
		Chain(0)	Chain(1)	
38	5190	9.63	9.20	12.43
46	5230	13.50	13.30	16.41
54	5270	15.09	14.80	17.96
62	5310	9.91	9.60	12.77
102	5510	8.60	7.60	11.14
110	5550	15.30	14.50	17.93
134	5670	12.20	12.30	15.26

4.3 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.3.1 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:

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.

4.3.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
-	FIELD STRENGTH AT 3m (dBμV/m)	
	PK	AV
	74	54
√	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBμV/m)
	PK	PK
	-27	68.3

NOTE:

1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

4.3.3 TEST INSTRUMENTS

For Above 1GHz test (Single chain – 802.11a):

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4446A	MY48250253	Sep. 03, 2012	Sep. 02, 2013
Pre-Selector Agilent	N9039A	MY46520310	Sep. 03, 2012	Sep. 02, 2013
Signal Generator Agilent	N5181A	MY49060347	July 24, 2012	July 23, 2013
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 14, 2012	Nov. 13, 2013
Pre-Amplifier Agilent	8449B	3008A02465	Feb. 27, 2012	Feb. 26, 2013
SPACEK LABS	SLKKa-48-6	9K16	Nov. 14, 2012	Nov. 13, 2013
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Apr. 06, 2012	Apr. 05, 2013
Horn_Antenna AISI	AIH.8018	0000220091110	Nov. 27, 2012	Nov. 26, 2013
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 12, 2012	Oct. 11, 2013
RF Cable	NA	RF104-205 RF104-207 RF104-202	Dec. 26, 2012	Dec. 25, 2013
RF Cable	NA	CHHCAB_001	Oct. 07, 2012	Oct. 06, 2013
Software	ADT_Radiated _V8.7.05	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. H.
4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: Feb. 04, 2013



A D T

For other test mode:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4446A	MY48250254	July 09, 2012	July 08, 2013
Pre-Selector Agilent	N9039A	MY46520311	July 09, 2012	July 08, 2013
Signal Generator Agilent	N5181A	MY49060517	July 09, 2012	July 08, 2013
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 14, 2012	Nov. 13, 2013
Pre-Amplifier Agilent	8449B	3008A02578	June 26, 2012	June 25, 2013
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 14, 2012	Nov. 13, 2013
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Apr. 09, 2012	Apr. 08, 2013
Horn_Antenna AISI	AIH.8018	0000320091110	Nov. 19, 2012	Nov. 18, 2013
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 12, 2012	Oct. 11, 2013
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 25, 2012	Dec. 24, 2013
RF Cable	NA	CHGCAB_001	Oct. 06, 2012	Oct. 05, 2013
Software	ADT_Radiated _V8.7.05	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: Jan. 29 to 30, 2013

4.3.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meters 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 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:

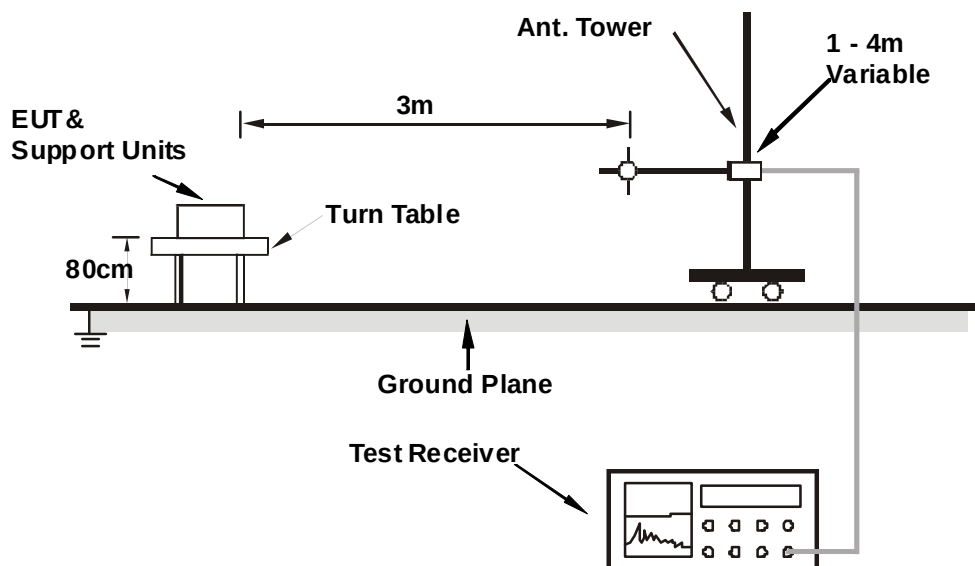
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.3.5 DEVIATION FROM TEST STANDARD

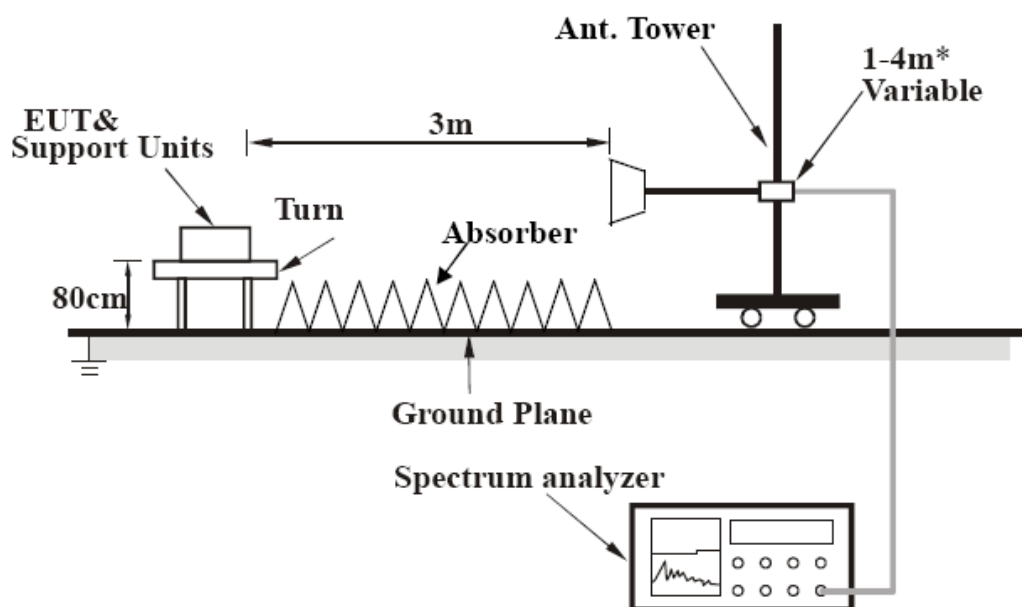
No deviation

4.3.6 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.3.7 EUT OPERATING CONDITION

1. Connect the EUT with the support unit 1 (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program “artgui.exe” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.3.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

Single chain - 802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 1GHz		

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	102.00	35.1 QP	43.5	-8.4	1.19 H	218	24.95	10.15
2	168.00	37.7 QP	43.5	-5.8	1.15 H	131	23.85	13.84
3	300.90	38.8 QP	46.0	-7.2	1.78 H	124	23.50	15.31
4	600.50	40.8 QP	46.0	-5.2	1.19 H	201	18.13	22.67
5	804.00	41.7 QP	46.0	-4.3	1.00 H	53	15.72	25.99
6	877.80	38.2 QP	46.0	-7.9	1.40 H	305	10.99	27.16
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	38.63	28.2 QP	40.0	-11.8	1.17 V	35	14.53	13.63
2	176.00	35.0 QP	43.5	-8.5	1.77 V	240	21.72	13.31
3	300.63	34.3 QP	46.0	-11.7	1.73 V	84	19.03	15.31
4	401.00	35.6 QP	46.0	-10.4	1.13 V	259	17.74	17.89
5	597.00	41.5 QP	46.0	-4.5	1.21 V	194	18.92	22.59
6	753.00	37.2 QP	46.0	-8.8	1.63 V	32	12.23	24.97

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

ABOVE 1GHz DATA

Single chain - 802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5150.00	58.2 PK	74.0	-15.8	1.00 H	145	15.63	42.57
2	5150.00	44.5 AV	54.0	-9.5	1.00 H	145	1.93	42.57
3	*5180.00	105.9 PK			1.00 H	145	63.23	42.67
4	*5180.00	95.7 AV			1.00 H	145	53.03	42.67
5	#10360.00	60.1 PK	68.3	-8.2	1.29 H	20	10.69	49.41
6	15540.00	60.0 PK	74.0	-14.0	1.25 H	110	4.55	55.45
7	15540.00	50.1 AV	54.0	-3.9	1.25 H	110	-5.35	55.45
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	5150.00	60.4 PK	74.0	-13.6	1.19 V	108	17.83	42.57
2	5150.00	47.9 AV	54.0	-6.1	1.19 V	108	5.33	42.57
3	*5180.00	107.3 PK			1.19 V	108	64.63	42.67
4	*5180.00	96.7 AV			1.19 V	108	54.03	42.67
5	#10360.00	62.6 PK	68.3	-5.7	1.33 V	17	13.19	49.41
6	15540.00	62.4 PK	74.0	-11.6	1.28 V	27	6.95	55.45
7	15540.00	51.3 AV	54.0	-2.7	1.28 V	27	-4.15	55.45

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5150.00	58.0 PK	74.0	-16.0	1.00 H	147	15.43	42.57
2	5150.00	45.5 AV	54.0	-8.5	1.00 H	147	2.93	42.57
3	*5200.00	105.6 PK			1.02 H	150	62.87	42.73
4	*5200.00	95.3 AV			1.02 H	150	52.57	42.73
5	#10400.00	61.2 PK	68.3	-7.1	1.33 H	30	12.17	49.03
6	15600.00	59.9 PK	74.0	-14.1	1.29 H	119	4.65	55.25
7	15600.00	50.2 AV	54.0	-3.8	1.29 H	119	-5.05	55.25
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	5150.00	59.7 PK	74.0	-14.3	1.18 V	110	17.13	42.57
2	5150.00	47.4 AV	54.0	-6.6	1.18 V	110	4.83	42.57
3	*5200.00	107.5 PK			1.21 V	102	64.77	42.73
4	*5200.00	97.1 AV			1.21 V	102	54.37	42.73
5	#10400.00	63.3 PK	68.3	-5.0	1.36 V	11	14.27	49.03
6	15600.00	62.9 PK	74.0	-11.1	1.24 V	33	7.65	55.25
7	15600.00	51.7 AV	54.0	-2.3	1.24 V	33	-3.55	55.25

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5240.00	105.7 PK			1.00 H	140	62.93	42.77
2	*5240.00	95.8 AV			1.00 H	140	53.03	42.77
3	#10480.00	60.1 PK	68.3	-8.2	1.29 H	31	10.51	49.59
4	15720.00	61.2 PK	74.0	-12.8	1.28 H	103	6.36	54.84
5	15720.00	50.1 AV	54.0	-3.9	1.28 H	103	-4.74	54.84
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	*5240.00	107.9 PK			1.15 V	118	65.13	42.77
2	*5240.00	97.5 AV			1.15 V	118	54.73	42.77
3	#10480.00	62.8 PK	68.3	-5.5	1.35 V	13	13.21	49.59
4	15720.00	63.1 PK	74.0	-10.9	1.19 V	47	8.26	54.84
5	15720.00	51.7 AV	54.0	-2.3	1.19 V	47	-3.14	54.84

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5260.00	107.5 PK			1.00 H	135	64.72	42.78
2	*5260.00	97.7 AV			1.00 H	135	54.92	42.78
3	#10520.00	54.2 PK	68.3	-14.1	1.00 H	78	4.51	49.69
4	15780.00	63.1 PK	74.0	-10.9	1.70 H	128	8.15	54.95
5	15780.00	51.0 AV	54.0	-3.0	1.70 H	128	-3.95	54.95
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	*5260.00	109.5 PK			1.19 V	109	66.72	42.78
2	*5260.00	99.4 AV			1.19 V	109	56.62	42.78
3	#10520.00	56.9 PK	68.3	-11.4	1.00 V	0	7.21	49.69
4	15780.00	65.2 PK	74.0	-8.8	1.31 V	27	10.25	54.95
5	15780.00	53.3 AV	54.0	-0.7	1.31 V	27	-1.65	54.95

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5300.00	107.2 PK			1.00 H	142	64.38	42.82
2	*5300.00	97.4 AV			1.00 H	142	54.58	42.82
3	10600.00	53.2 PK	74.0	-20.8	1.24 H	161	3.65	49.55
4	10600.00	46.2 AV	54.0	-7.8	1.24 H	161	-3.35	49.55
5	15900.00	62.2 PK	74.0	-11.8	1.74 H	140	7.19	55.01
6	15900.00	51.4 AV	54.0	-2.6	1.74 H	140	-3.61	55.01
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	*5300.00	109.4 PK			1.18 V	109	66.58	42.82
2	*5300.00	99.6 AV			1.18 V	109	56.78	42.82
3	10600.00	56.5 PK	74.0	-17.5	1.17 V	140	6.95	49.55
4	10600.00	48.6 AV	54.0	-5.4	1.17 V	140	-0.95	49.55
5	15900.00	64.9 PK	74.0	-9.1	1.38 V	27	9.89	55.01
6	15900.00	53.1 AV	54.0	-0.9	1.38 V	27	-1.91	55.01

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5320.00	107.2 PK			1.00 H	144	64.38	42.82
2	*5320.00	96.7 AV			1.00 H	144	53.88	42.82
3	5350.00	68.3 PK	74.0	-5.7	1.21 H	155	25.47	42.83
4	5350.00	50.0 AV	54.0	-4.0	1.21 H	155	7.17	42.83
5	10640.00	54.2 PK	74.0	-19.8	1.26 H	145	4.54	49.66
6	10640.00	46.2 AV	54.0	-7.8	1.26 H	145	-3.46	49.66
7	15960.00	62.1 PK	74.0	-11.9	1.65 H	131	7.42	54.68
8	15960.00	50.7 AV	54.0	-3.3	1.65 H	131	-3.98	54.68
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	*5320.00	109.4 PK			1.16 V	107	66.58	42.82
2	*5320.00	99.0 AV			1.16 V	107	56.18	42.82
3	5350.00	71.3 PK	74.0	-2.7	1.16 V	107	28.47	42.83
4	5350.00	52.2 AV	54.0	-1.8	1.16 V	107	9.37	42.83
5	10640.00	56.0 PK	74.0	-18.0	1.21 V	150	6.34	49.66
6	10640.00	48.1 AV	54.0	-5.9	1.21 V	150	-1.56	49.66
7	15960.00	64.3 PK	74.0	-9.7	1.29 V	28	9.62	54.68
8	15960.00	52.7 AV	54.0	-1.3	1.29 V	28	-1.98	54.68

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5460.00	58.2 PK	74.0	-15.8	1.01 H	14	15.17	43.03
2	5460.00	46.1 AV	54.0	-7.9	1.01 H	14	3.07	43.03
3	#5470.00	64.8 PK	68.3	-3.5	1.18 H	137	21.74	43.06
4	*5500.00	104.5 PK			1.00 H	156	61.34	43.16
5	*5500.00	94.5 AV			1.00 H	156	51.34	43.16
6	11000.00	54.2 PK	74.0	-19.8	1.19 H	147	3.99	50.21
7	11000.00	46.2 AV	54.0	-7.8	1.19 H	147	-4.01	50.21
8	#16500.00	63.0 PK	68.3	-5.3	1.19 H	139	6.53	56.47
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	5460.00	60.0 PK	74.0	-14.0	1.00 V	11	16.97	43.03
2	5460.00	48.9 AV	54.0	-5.1	1.00 V	11	5.87	43.03
3	#5470.00	66.8 PK	68.3	-1.5	1.00 V	11	23.74	43.06
4	*5500.00	106.0 PK			1.00 V	11	62.84	43.16
5	*5500.00	96.1 AV			1.00 V	11	52.94	43.16
6	11000.00	56.6 PK	74.0	-17.4	1.22 V	145	6.39	50.21
7	11000.00	48.5 AV	54.0	-5.5	1.22 V	145	-1.71	50.21
8	#16500.00	65.3 PK	68.3	-3.0	1.24 V	149	8.83	56.47

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5580.00	107.5 PK			1.02 H	144	64.17	43.33
2	*5580.00	97.1 AV			1.02 H	144	53.77	43.33
3	11160.00	63.7 PK	74.0	-10.3	1.00 H	129	13.72	49.98
4	11160.00	49.7 AV	54.0	-4.3	1.00 H	129	-0.28	49.98
5	#16740.00	65.2 PK	68.3	-3.1	1.39 H	174	8.49	56.71
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	*5580.00	109.6 PK			1.29 V	263	66.27	43.33
2	*5580.00	99.4 AV			1.29 V	263	56.07	43.33
3	11160.00	64.4 PK	74.0	-9.6	1.00 V	131	14.42	49.98
4	11160.00	50.3 AV	54.0	-3.7	1.00 V	131	0.32	49.98
5	#16740.00	67.0 PK	68.3	-1.3	1.04 V	314	10.29	56.71

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5660.00	105.1 PK			1.00 H	159	61.69	43.41
2	*5660.00	96.0 AV			1.00 H	159	52.59	43.41
3	11320.00	58.2 PK	74.0	-15.8	1.35 H	207	7.77	50.43
4	11320.00	45.5 AV	54.0	-8.5	1.35 H	207	-4.93	50.43
5	#16980.00	65.2 PK	68.3	-3.1	1.24 H	154	7.53	57.67
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	*5660.00	107.3 PK			1.29 V	263	63.89	43.41
2	*5660.00	98.3 AV			1.29 V	263	54.89	43.41
3	11320.00	60.4 PK	74.0	-13.6	1.35 V	195	9.97	50.43
4	11320.00	47.9 AV	54.0	-6.1	1.35 V	195	-2.53	50.43
5	#16980.00	67.8 PK	68.3	-0.5	1.19 V	142	10.13	57.67

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5700.00	104.7 PK			1.08 H	234	61.27	43.43
2	*5700.00	93.9 AV			1.08 H	234	50.47	43.43
3	#5725.00	64.0 PK	68.3	-4.3	1.08 H	234	20.55	43.45
4	11400.00	58.1 PK	74.0	-15.9	1.34 H	220	7.82	50.28
5	11400.00	45.2 AV	54.0	-8.8	1.34 H	220	-5.08	50.28
6	#17100.00	66.2 PK	68.3	-2.1	1.45 H	221	8.74	57.46
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	*5700.00	106.7 PK			1.19 V	266	63.27	43.43
2	*5700.00	96.0 AV			1.19 V	266	52.57	43.43
3	#5725.00	66.5 PK	68.3	-1.8	1.19 V	266	23.05	43.45
4	11400.00	60.7 PK	74.0	-13.3	1.36 V	221	10.42	50.28
5	11400.00	47.8 AV	54.0	-6.2	1.36 V	221	-2.48	50.28
6	#17100.00	68.2 PK	68.3	-0.1	1.20 V	138	10.74	57.46

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Multiple chain - 802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5150.00	56.3 PK	74.0	-17.7	1.23 H	118	15.75	40.55
2	5150.00	46.2 AV	54.0	-7.8	1.23 H	118	5.65	40.55
3	*5180.00	105.2 PK			1.06 H	231	64.52	40.68
4	*5180.00	93.0 AV			1.06 H	231	52.32	40.68
5	#10360.00	56.5 PK	68.3	-11.8	1.21 H	104	8.68	47.82
6	15540.00	64.5 PK	74.0	-9.5	1.00 H	130	11.23	53.27
7	15540.00	50.2 AV	54.0	-3.8	1.00 H	130	-3.07	53.27
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	5150.00	58.2 PK	74.0	-15.8	1.20 V	103	17.65	40.55
2	5150.00	49.6 AV	54.0	-4.4	1.20 V	103	9.05	40.55
3	*5180.00	108.8 PK			1.20 V	103	68.12	40.68
4	*5180.00	95.4 AV			1.20 V	103	54.72	40.68
5	#10360.00	58.3 PK	68.3	-10.0	1.21 V	92	10.48	47.82
6	15540.00	64.8 PK	74.0	-9.2	1.00 V	124	11.53	53.27
7	15540.00	50.5 AV	54.0	-3.5	1.00 V	124	-2.77	53.27

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5200.00	106.2 PK			1.04 H	243	65.43	40.77
2	*5200.00	93.9 AV			1.04 H	243	53.13	40.77
3	#10400.00	56.5 PK	68.3	-11.8	1.21 H	109	9.14	47.36
4	15600.00	64.4 PK	74.0	-9.6	1.03 H	136	11.41	52.99
5	15600.00	50.5 AV	54.0	-3.5	1.03 H	136	-2.49	52.99
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	*5200.00	108.9 PK			1.18 V	106	68.13	40.77
2	*5200.00	95.2 AV			1.18 V	106	54.43	40.77
3	#10400.00	58.4 PK	68.3	-9.9	1.23 V	96	11.04	47.36
4	15600.00	64.4 PK	74.0	-9.6	1.05 V	150	11.41	52.99
5	15600.00	50.3 AV	54.0	-3.7	1.05 V	150	-2.69	52.99

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5240.00	106.2 PK			1.10 H	218	65.31	40.89
2	*5240.00	93.9 AV			1.10 H	218	53.01	40.89
3	#10480.00	56.3 PK	68.3	-12.0	1.24 H	122	8.65	47.65
4	15720.00	64.5 PK	74.0	-9.5	1.00 H	151	11.91	52.59
5	15720.00	50.2 AV	54.0	-3.8	1.00 H	151	-2.39	52.59
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	*5240.00	108.4 PK			1.24 V	99	67.51	40.89
2	*5240.00	95.2 AV			1.24 V	99	54.31	40.89
3	#10480.00	58.6 PK	68.3	-9.7	1.22 V	89	10.95	47.65
4	15720.00	64.1 PK	74.0	-9.9	1.00 V	123	11.51	52.59
5	15720.00	50.2 AV	54.0	-3.8	1.00 V	123	-2.39	52.59

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5260.00	105.2 PK			1.00 H	160	64.24	40.96
2	*5260.00	96.3 AV			1.00 H	160	55.34	40.96
3	#10520.00	56.2 PK	68.3	-12.1	1.30 H	130	8.47	47.73
4	15780.00	59.5 PK	74.0	-14.5	1.23 H	87	6.96	52.54
5	15780.00	49.1 AV	54.0	-4.9	1.23 H	87	-3.44	52.54
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	*5260.00	107.1 PK			1.28 V	258	66.14	40.96
2	*5260.00	98.4 AV			1.28 V	258	57.44	40.96
3	#10520.00	58.6 PK	68.3	-9.7	1.21 V	90	10.87	47.73
4	15780.00	63.8 PK	74.0	-10.2	1.37 V	15	11.26	52.54
5	15780.00	53.2 AV	54.0	-0.8	1.37 V	15	0.66	52.54

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5300.00	104.5 PK			1.06 H	154	63.42	41.08
2	*5300.00	96.9 AV			1.06 H	154	55.82	41.08
3	10600.00	57.1 PK	74.0	-16.9	1.18 H	104	9.34	47.76
4	10600.00	47.0 AV	54.0	-7.0	1.18 H	104	-0.76	47.76
5	15900.00	60.1 PK	74.0	-13.9	1.18 H	93	7.16	52.94
6	15900.00	50.1 AV	54.0	-3.9	1.18 H	93	-2.84	52.94
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	*5300.00	106.5 PK			1.33 V	250	65.42	41.08
2	*5300.00	98.8 AV			1.33 V	250	57.72	41.08
3	10600.00	60.1 PK	74.0	-13.9	1.13 V	111	12.34	47.76
4	10600.00	50.4 AV	54.0	-3.6	1.13 V	111	2.64	47.76
5	15900.00	63.9 PK	74.0	-10.1	1.32 V	15	10.96	52.94
6	15900.00	53.3 AV	54.0	-0.7	1.32 V	15	0.36	52.94

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5320.00	107.5 PK			1.00 H	144	66.39	41.11
2	*5320.00	98.3 AV			1.00 H	144	57.19	41.11
3	5350.00	68.9 PK	74.0	-5.1	1.21 H	155	27.75	41.15
4	5350.00	50.2 AV	54.0	-3.8	1.21 H	155	9.05	41.15
5	10640.00	56.3 PK	74.0	-17.7	1.26 H	145	8.42	47.88
6	10640.00	48.5 AV	54.0	-5.5	1.26 H	145	0.62	47.88
7	15960.00	61.2 PK	74.0	-12.8	1.65 H	131	8.43	52.77
8	15960.00	50.3 AV	54.0	-3.7	1.65 H	131	-2.47	52.77
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	*5320.00	111.1 PK			1.48 V	293	69.99	41.11
2	*5320.00	101.1 AV			1.48 V	293	59.99	41.11
3	5350.00	72.0 PK	74.0	-2.0	1.48 V	293	30.85	41.15
4	5350.00	53.1 AV	54.0	-0.9	1.48 V	293	11.95	41.15
5	10640.00	58.3 PK	74.0	-15.7	1.48 V	293	10.42	47.88
6	10640.00	50.0 AV	54.0	-4.0	1.48 V	293	2.12	47.88
7	15960.00	64.0 PK	74.0	-10.0	1.29 V	11	11.23	52.77
8	15960.00	53.1 AV	54.0	-0.9	1.29 V	11	0.33	52.77

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5460.00	56.3 PK	74.0	-17.7	1.51 H	233	14.79	41.51
2	5460.00	48.3 AV	54.0	-5.7	1.51 H	233	6.79	41.51
3	#5470.00	58.9 PK	68.3	-9.4	1.08 H	234	17.34	41.56
4	*5500.00	105.3 PK			1.08 H	234	63.60	41.70
5	*5500.00	95.5 AV			1.08 H	234	53.80	41.70
6	11000.00	56.3 PK	74.0	-17.7	1.32 H	201	7.33	48.97
7	11000.00	48.5 AV	54.0	-5.5	1.32 H	201	-0.47	48.97
8	#16500.00	62.0 PK	68.3	-6.3	1.31 H	235	7.61	54.39
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	5460.00	58.7 PK	74.0	-15.3	1.49 V	297	17.19	41.51
2	5460.00	50.4 AV	54.0	-3.6	1.49 V	297	8.89	41.51
3	#5470.00	61.2 PK	68.3	-7.1	1.11 V	216	19.64	41.56
4	*5500.00	108.6 PK			1.11 V	216	66.90	41.70
5	*5500.00	97.8 AV			1.11 V	216	56.10	41.70
6	11000.00	58.9 PK	74.0	-15.1	1.51 V	290	9.93	48.97
7	11000.00	48.2 AV	54.0	-5.8	1.51 V	290	-0.77	48.97
8	#16500.00	64.3 PK	68.3	-4.0	1.33 V	0	9.91	54.39

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5580.00	109.0 PK			1.00 H	114	67.09	41.91
2	*5580.00	100.0 AV			1.00 H	114	58.09	41.91
3	11160.00	56.5 PK	74.0	-17.5	1.29 H	207	7.77	48.73
4	11160.00	47.5 AV	54.0	-6.5	1.29 H	207	-1.23	48.73
5	#16740.00	65.1 PK	68.3	-3.2	1.05 H	124	10.65	54.45
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	*5580.00	112.0 PK			1.00 V	240	70.09	41.91
2	*5580.00	101.8 AV			1.00 V	240	59.89	41.91
3	11160.00	58.8 PK	74.0	-15.2	1.50 V	278	10.07	48.73
4	11160.00	48.4 AV	54.0	-5.6	1.50 V	278	-0.33	48.73
5	#16740.00	67.7 PK	68.3	-0.6	1.23 V	249	13.25	54.45

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5660.00	109.3 PK			1.00 H	114	67.14	42.16
2	*5660.00	99.2 AV			1.00 H	114	57.04	42.16
3	11320.00	57.1 PK	74.0	-16.9	1.31 H	200	8.03	49.07
4	11320.00	47.9 AV	54.0	-6.1	1.31 H	200	-1.17	49.07
5	#16980.00	65.3 PK	68.3	-3.0	1.21 H	221	10.01	55.29
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	*5660.00	112.1 PK			1.00 V	238	69.94	42.16
2	*5660.00	100.9 AV			1.00 V	238	58.74	42.16
3	11320.00	58.5 PK	74.0	-15.5	1.54 V	283	9.43	49.07
4	11320.00	50.0 AV	54.0	-4.0	1.54 V	283	0.93	49.07
5	#16980.00	67.5 PK	68.3	-0.8	1.23 V	203	12.21	55.29

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5700.00	106.3 PK			1.00 H	114	64.00	42.30
2	*5700.00	95.8 AV			1.00 H	114	53.50	42.30
3	#5725.00	58.1 PK	68.3	-10.2	1.22 H	180	15.76	42.34
4	11400.00	56.7 PK	74.0	-17.3	1.28 H	219	7.82	48.88
5	11400.00	47.7 AV	54.0	-6.3	1.28 H	219	-1.18	48.88
6	#17100.00	65.3 PK	68.3	-3.0	1.21 H	231	9.80	55.50
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	*5700.00	108.3 PK			1.00 V	265	66.00	42.30
2	*5700.00	97.0 AV			1.00 V	265	54.70	42.30
3	#5725.00	60.9 PK	68.3	-7.4	1.00 V	265	18.56	42.34
4	11400.00	59.0 PK	74.0	-15.0	1.45 V	273	10.12	48.88
5	11400.00	48.5 AV	54.0	-5.5	1.45 V	273	-0.38	48.88
6	#17100.00	67.4 PK	68.3	-0.9	1.25 V	211	11.90	55.50

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5150.00	63.7 PK	74.0	-10.3	1.00 H	146	23.15	40.55
2	5150.00	49.7 AV	54.0	-4.3	1.00 H	146	9.15	40.55
3	*5180.00	104.5 PK			1.22 H	225	63.82	40.68
4	*5180.00	95.6 AV			1.22 H	225	54.92	40.68
5	#10360.00	58.7 PK	68.3	-9.6	1.44 H	287	10.88	47.82
6	15540.00	58.5 PK	74.0	-15.5	1.58 H	272	5.23	53.27
7	15540.00	49.8 AV	54.0	-4.2	1.58 H	272	-3.47	53.27
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	5150.00	64.1 PK	74.0	-9.9	1.00 V	136	23.55	40.55
2	5150.00	50.0 AV	54.0	-4.0	1.00 V	136	9.45	40.55
3	*5180.00	106.9 PK			1.00 V	136	66.22	40.68
4	*5180.00	97.1 AV			1.00 V	136	56.42	40.68
5	#10360.00	59.0 PK	68.3	-9.3	1.47 V	266	11.18	47.82
6	15540.00	58.9 PK	74.0	-15.1	1.53 V	267	5.63	53.27
7	15540.00	50.5 AV	54.0	-3.5	1.53 V	267	-2.77	53.27

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5200.00	105.3 PK			1.23 H	242	64.53	40.77
2	*5200.00	94.9 AV			1.23 H	242	54.13	40.77
3	#10400.00	58.8 PK	68.3	-9.5	1.23 H	224	11.44	47.36
4	15600.00	63.8 PK	74.0	-10.2	1.00 H	138	10.81	52.99
5	15600.00	49.9 AV	54.0	-4.1	1.00 H	138	-3.09	52.99
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	*5200.00	107.2 PK			1.02 V	129	66.43	40.77
2	*5200.00	97.6 AV			1.02 V	129	56.83	40.77
3	#10400.00	59.3 PK	68.3	-9.0	1.08 V	130	11.94	47.36
4	15600.00	64.0 PK	74.0	-10.0	1.00 V	121	11.01	52.99
5	15600.00	49.6 AV	54.0	-4.4	1.00 V	121	-3.39	52.99

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5240.00	105.3 PK			1.25 H	246	64.41	40.89
2	*5240.00	94.3 AV			1.25 H	246	53.41	40.89
3	#10480.00	58.6 PK	68.3	-9.7	1.06 H	131	10.95	47.65
4	15720.00	64.5 PK	74.0	-9.5	1.00 H	132	11.91	52.59
5	15720.00	50.2 AV	54.0	-3.8	1.00 H	132	-2.39	52.59
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	*5240.00	107.0 PK			1.00 V	129	66.11	40.89
2	*5240.00	97.3 AV			1.00 V	129	56.41	40.89
3	#10480.00	59.4 PK	68.3	-8.9	1.07 V	221	11.75	47.65
4	15720.00	64.3 PK	74.0	-9.7	1.00 V	140	11.71	52.59
5	15720.00	50.4 AV	54.0	-3.6	1.00 V	140	-2.19	52.59

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5260.00	108.5 PK			1.05 H	287	67.54	40.96
2	*5260.00	98.1 AV			1.05 H	287	57.14	40.96
3	#10520.00	57.9 PK	68.3	-10.4	1.09 H	266	10.17	47.73
4	15780.00	63.5 PK	74.0	-10.5	1.00 H	138	10.96	52.54
5	15780.00	49.6 AV	54.0	-4.4	1.00 H	138	-2.94	52.54
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	*5260.00	111.1 PK			1.02 V	259	70.14	40.96
2	*5260.00	100.2 AV			1.02 V	259	59.24	40.96
3	#10520.00	58.5 PK	68.3	-9.8	1.08 V	233	10.77	47.73
4	15780.00	64.3 PK	74.0	-9.7	1.02 V	145	11.76	52.54
5	15780.00	50.0 AV	54.0	-4.0	1.02 V	145	-2.54	52.54

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5300.00	108.6 PK			1.06 H	247	67.52	41.08
2	*5300.00	97.9 AV			1.06 H	247	56.82	41.08
3	10600.00	56.0 PK	74.0	-18.0	1.04 H	243	8.24	47.76
4	15900.00	64.4 PK	74.0	-9.6	1.02 H	131	11.46	52.94
5	15900.00	50.1 AV	54.0	-3.9	1.02 H	131	-2.84	52.94
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	*5300.00	111.0 PK			1.02 V	247	69.92	41.08
2	*5300.00	100.1 AV			1.02 V	247	59.02	41.08
3	10600.00	58.2 PK	74.0	-15.8	1.06 V	234	10.44	47.76
4	15900.00	63.8 PK	74.0	-10.2	1.00 V	147	10.86	52.94
5	15900.00	51.1 AV	54.0	-2.9	1.00 V	147	-1.84	52.94

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5320.00	109.5 PK			1.41 H	266	68.39	41.11
2	*5320.00	98.5 AV			1.41 H	266	57.39	41.11
3	5350.00	68.7 PK	74.0	-5.3	1.22 H	214	27.55	41.15
4	5350.00	50.1 AV	54.0	-3.9	1.22 H	214	8.95	41.15
5	10640.00	56.6 PK	74.0	-17.4	1.11 H	221	8.72	47.88
6	10640.00	45.8 AV	54.0	-8.2	1.11 H	221	-2.08	47.88
7	15960.00	63.9 PK	74.0	-10.1	1.00 H	147	11.13	52.77
8	15960.00	49.7 AV	54.0	-4.3	1.00 H	147	-3.07	52.77
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	*5320.00	112.5 PK			1.38 V	268	71.39	41.11
2	*5320.00	101.9 AV			1.38 V	268	60.79	41.11
3	5350.00	73.5 PK	74.0	-0.5	1.38 V	268	32.35	41.15
4	5350.00	52.2 AV	54.0	-1.8	1.38 V	268	11.05	41.15
5	10640.00	58.6 PK	74.0	-15.4	1.14 V	239	10.72	47.88
6	10640.00	48.8 AV	54.0	-5.2	1.14 V	239	0.92	47.88
7	15960.00	64.2 PK	74.0	-9.8	1.06 V	126	11.43	52.77
8	15960.00	50.3 AV	54.0	-3.7	1.06 V	126	-2.47	52.77

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5460.00	61.5 PK	74.0	-12.5	1.21 H	221	19.99	41.51
2	5460.00	49.8 AV	54.0	-4.2	1.21 H	221	8.29	41.51
3	#5470.00	65.2 PK	68.3	-3.1	1.21 H	244	23.64	41.56
4	*5500.00	108.0 PK			1.36 H	267	66.30	41.70
5	*5500.00	97.8 AV			1.36 H	267	56.10	41.70
6	11000.00	56.3 PK	74.0	-17.7	1.18 H	236	7.33	48.97
7	11000.00	46.8 AV	54.0	-7.2	1.18 H	236	-2.17	48.97
8	#16500.00	64.3 PK	68.3	-4.0	1.11 H	132	9.91	54.39
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	5460.00	62.0 PK	74.0	-12.0	1.21 V	231	20.49	41.51
2	5460.00	50.2 AV	54.0	-3.8	1.21 V	231	8.69	41.51
3	#5470.00	67.3 PK	68.3	-1.0	1.24 V	281	25.74	41.56
4	*5500.00	112.0 PK			1.24 V	281	70.30	41.70
5	*5500.00	100.7 AV			1.24 V	281	59.00	41.70
6	11000.00	58.3 PK	74.0	-15.7	1.11 V	230	9.33	48.97
7	11000.00	48.4 AV	54.0	-5.6	1.11 V	230	-0.57	48.97
8	#16500.00	64.3 PK	68.3	-4.0	1.01 V	131	9.91	54.39

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5580.00	111.1 PK			1.05 H	241	69.19	41.91
2	*5580.00	99.8 AV			1.05 H	241	57.89	41.91
3	11160.00	56.7 PK	74.0	-17.3	1.07 H	215	7.97	48.73
4	11160.00	46.3 AV	54.0	-7.7	1.07 H	215	-2.43	48.73
5	#16740.00	65.2 PK	68.3	-3.1	1.21 H	220	10.75	54.45
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	*5580.00	113.1 PK			1.30 V	267	71.19	41.91
2	*5580.00	102.3 AV			1.30 V	267	60.39	41.91
3	11160.00	58.7 PK	74.0	-15.3	1.12 V	217	9.97	48.73
4	11160.00	48.6 AV	54.0	-5.4	1.12 V	217	-0.13	48.73
5	#16740.00	67.8 PK	68.3	-0.5	1.17 V	240	13.35	54.45

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5660.00	110.0 PK			1.35 H	247	67.84	42.16
2	*5660.00	100.0 AV			1.35 H	247	57.84	42.16
3	11320.00	56.3 PK	74.0	-17.7	1.10 H	228	7.23	49.07
4	11320.00	46.0 AV	54.0	-8.0	1.10 H	228	-3.07	49.07
5	#16980.00	65.3 PK	68.3	-3.0	1.21 H	222	10.01	55.29
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	*5660.00	113.2 PK			1.33 V	267	71.04	42.16
2	*5660.00	102.7 AV			1.33 V	267	60.54	42.16
3	11320.00	59.2 PK	74.0	-14.8	1.10 V	206	10.13	49.07
4	11320.00	48.8 AV	54.0	-5.2	1.10 V	206	-0.27	49.07
5	#16980.00	67.8 PK	68.3	-0.5	1.17 V	247	12.51	55.29

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5700.00	106.2 PK			1.21 H	217	63.90	42.30
2	*5700.00	96.5 AV			1.21 H	217	54.20	42.30
3	#5725.00	64.5 PK	68.3	-3.8	1.22 H	271	22.16	42.34
4	11400.00	56.6 PK	74.0	-17.4	1.11 H	229	7.72	48.88
5	11400.00	46.3 AV	54.0	-7.7	1.11 H	229	-2.58	48.88
6	#17100.00	65.3 PK	68.3	-3.0	1.21 H	244	9.80	55.50
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	*5700.00	108.8 PK			1.14 V	259	66.50	42.30
2	*5700.00	98.2 AV			1.14 V	259	55.90	42.30
3	11400.00	59.6 PK	74.0	-14.4	1.12 V	207	10.72	48.88
4	11400.00	49.2 AV	54.0	-4.8	1.12 V	207	0.32	48.88
5	#17100.00	66.9 PK	68.3	-1.4	1.10 V	224	11.40	55.50

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5150.00	58.5 PK	74.0	-15.5	1.25 H	247	17.95	40.55
2	5150.00	46.8 AV	54.0	-7.2	1.25 H	247	6.25	40.55
3	*5190.00	102.5 PK			1.25 H	274	61.77	40.73
4	*5190.00	90.8 AV			1.25 H	274	50.07	40.73
5	#10380.00	56.6 PK	68.3	-11.7	1.09 H	233	9.01	47.59
6	15570.00	61.5 PK	74.0	-12.5	1.26 H	235	8.37	53.13
7	15570.00	49.7 AV	54.0	-4.3	1.26 H	235	-3.43	53.13
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	5150.00	60.6 PK	74.0	-13.4	1.00 V	136	20.05	40.55
2	5150.00	48.5 AV	54.0	-5.5	1.00 V	136	7.95	40.55
3	*5190.00	104.7 PK			1.00 V	136	63.97	40.73
4	*5190.00	93.2 AV			1.00 V	136	52.47	40.73
5	#10380.00	58.6 PK	68.3	-9.7	1.14 V	200	11.01	47.59
6	15570.00	61.5 PK	74.0	-12.5	1.29 V	232	8.37	53.13
7	15570.00	49.7 AV	54.0	-4.3	1.29 V	232	-3.43	53.13

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5230.00	106.5 PK			1.27 H	287	65.64	40.86
2	*5230.00	96.2 AV			1.27 H	287	55.34	40.86
3	#10460.00	56.9 PK	68.3	-11.4	1.06 H	221	9.32	47.58
4	15690.00	62.0 PK	74.0	-12.0	1.24 H	260	9.36	52.64
5	15690.00	50.1 AV	54.0	-3.9	1.24 H	260	-2.54	52.64
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	*5230.00	108.6 PK			1.24 V	245	67.74	40.86
2	*5230.00	98.0 AV			1.24 V	245	57.14	40.86
3	#10460.00	59.3 PK	68.3	-9.0	1.07 V	205	11.72	47.58
4	15690.00	62.0 PK	74.0	-12.0	1.25 V	244	9.36	52.64
5	15690.00	50.0 AV	54.0	-4.0	1.25 V	244	-2.64	52.64

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5270.00	106.9 PK			1.08 H	235	65.91	40.99
2	*5270.00	97.3 AV			1.08 H	235	56.31	40.99
3	#10540.00	57.1 PK	68.3	-11.2	1.04 H	227	9.36	47.74
4	15810.00	62.3 PK	74.0	-11.7	1.32 H	261	9.73	52.57
5	15810.00	50.3 AV	54.0	-3.7	1.32 H	261	-2.27	52.57
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	*5270.00	109.2 PK			1.05 V	241	68.21	40.99
2	*5270.00	99.1 AV			1.05 V	241	58.11	40.99
3	#10540.00	59.7 PK	68.3	-8.6	1.05 V	210	11.96	47.74
4	15810.00	61.9 PK	74.0	-12.1	1.28 V	247	9.33	52.57
5	15810.00	50.2 AV	54.0	-3.8	1.28 V	247	-2.37	52.57

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5310.00	99.5 PK			1.50 H	232	58.41	41.09
2	*5310.00	88.5 AV			1.50 H	232	47.41	41.09
3	5350.00	61.5 PK	74.0	-12.5	1.22 H	198	20.35	41.15
4	5350.00	48.9 AV	54.0	-5.1	1.22 H	198	7.75	41.15
5	10620.00	56.8 PK	74.0	-17.2	1.08 H	247	8.98	47.82
6	10620.00	46.7 AV	54.0	-7.3	1.08 H	247	-1.12	47.82
7	15930.00	62.2 PK	74.0	-11.8	1.30 H	257	9.34	52.86
8	15930.00	50.4 AV	54.0	-3.6	1.30 H	257	-2.46	52.86
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	*5310.00	101.7 PK			1.00 V	148	60.61	41.09
2	*5310.00	90.9 AV			1.00 V	148	49.81	41.09
3	5350.00	63.7 PK	74.0	-10.3	1.00 V	148	22.55	41.15
4	5350.00	50.8 AV	54.0	-3.2	1.00 V	148	9.65	41.15
5	10620.00	59.4 PK	74.0	-14.6	1.05 V	220	11.58	47.82
6	10620.00	49.0 AV	54.0	-5.0	1.05 V	220	1.18	47.82
7	15930.00	61.6 PK	74.0	-12.4	1.30 V	242	8.74	52.86
8	15930.00	50.1 AV	54.0	-3.9	1.30 V	242	-2.76	52.86

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

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5460.00	55.8 PK	74.0	-18.2	1.25 H	277	14.29	41.51
2	5460.00	46.8 AV	54.0	-7.2	1.25 H	277	5.29	41.51
3	#5470.00	64.8 PK	68.3	-3.5	1.88 H	295	23.24	41.56
4	*5510.00	99.8 PK			1.25 H	287	58.07	41.73
5	*5510.00	90.1 AV			1.25 H	287	48.37	41.73
6	11020.00	56.3 PK	74.0	-17.7	1.12 H	225	7.36	48.94
7	11020.00	45.9 AV	54.0	-8.1	1.12 H	225	-3.04	48.94
8	#16530.00	61.5 PK	68.3	-6.8	1.32 H	243	6.78	54.72
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	5460.00	56.5 PK	74.0	-17.5	1.25 V	244	14.99	41.51
2	5460.00	47.5 AV	54.0	-6.5	1.25 V	244	5.99	41.51
3	#5470.00	67.8 PK	68.3	-0.5	1.24 V	283	26.24	41.56
4	*5510.00	102.9 PK			1.24 V	283	61.17	41.73
5	*5510.00	92.0 AV			1.24 V	283	50.27	41.73
6	11020.00	59.5 PK	74.0	-14.5	1.14 V	197	10.56	48.94
7	11020.00	48.8 AV	54.0	-5.2	1.14 V	197	-0.14	48.94
8	#16530.00	62.2 PK	68.3	-6.1	1.33 V	246	7.48	54.72

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5550.00	107.8 PK			1.15 H	187	65.97	41.83
2	*5550.00	99.8 AV			1.15 H	187	57.97	41.83
3	11100.00	56.5 PK	74.0	-17.5	1.08 H	227	7.69	48.81
4	11100.00	46.3 AV	54.0	-7.7	1.08 H	227	-2.51	48.81
5	#16650.00	63.5 PK	68.3	-4.8	1.15 H	243	8.45	55.05
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	*5550.00	110.4 PK			1.05 V	241	68.57	41.83
2	*5550.00	101.5 AV			1.05 V	241	59.67	41.83
3	11100.00	59.5 PK	74.0	-14.5	1.16 V	190	10.69	48.81
4	11100.00	49.1 AV	54.0	-4.9	1.16 V	190	0.29	48.81
5	#16650.00	66.1 PK	68.3	-2.2	1.08 V	230	11.05	55.05

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5670.00	105.8 PK			1.15 H	248	63.60	42.20
2	*5670.00	95.8 AV			1.15 H	248	53.60	42.20
3	#5725.00	63.5 PK	68.3	-4.8	1.12 H	210	21.16	42.34
4	11340.00	56.3 PK	74.0	-17.7	1.12 H	246	7.28	49.02
5	11340.00	45.9 AV	54.0	-8.1	1.12 H	246	-3.12	49.02
6	#17010.00	61.9 PK	68.3	-6.4	1.23 H	263	6.55	55.35
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	*5670.00	108.2 PK			1.03 V	251	66.00	42.20
2	*5670.00	97.7 AV			1.03 V	251	55.50	42.20
3	#5725.00	66.0 PK	68.3	-2.3	1.03 V	251	23.66	42.34
4	11340.00	59.4 PK	74.0	-14.6	1.04 V	206	10.38	49.02
5	11340.00	49.2 AV	54.0	-4.8	1.04 V	206	0.18	49.02
6	#17010.00	61.8 PK	68.3	-6.5	1.31 V	243	6.45	55.35

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).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

4.4 CONDUCTED EMISSION MEASUREMENT

4.4.1 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.

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver	ESCS 30	100375	Mar. 12, 2012	Mar. 11, 2013
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK8127	8127-522	Sep. 06, 2012	Sep. 05, 2013
Line-Impedance Stabilization Network (for Peripheral)	ENV216	100072	June 08, 2012	June 07, 2013
RF Cable (JYEBAO)	5DFB	COCCAB-001	Aug. 28, 2012	Aug. 27, 2013
50 ohms Terminator	50	EMC-3	Sep. 25, 2012	Sep. 24, 2013
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: Jan. 30, 2013

4.4.3 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) were not recorded.

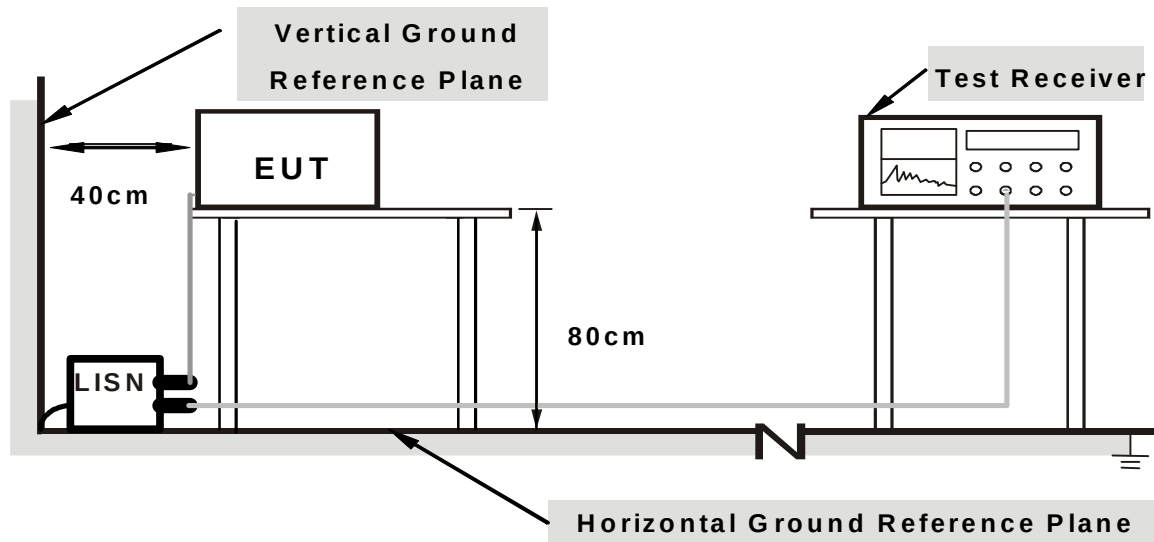
NOTE:

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

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 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.

4.4.6 EUT OPERATING CONDITIONS

Same as the 4.3.6

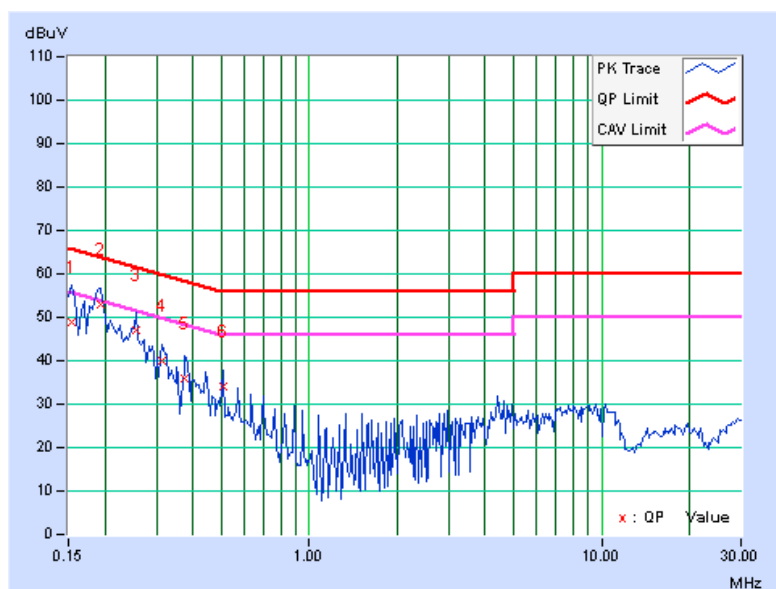
4.4.7 TEST RESULTS

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	0.11	48.70	20.58	48.81	20.69	65.79	55.79	-16.98	-35.10
2	0.19297	0.12	52.98	46.71	53.10	46.83	63.91	53.91	-10.81	-7.08
3	0.25547	0.13	46.82	39.99	46.95	40.12	61.58	51.58	-14.63	-11.46
4	0.31406	0.14	39.84	34.94	39.98	35.08	59.86	49.86	-19.88	-14.78
5	0.37656	0.16	35.89	31.44	36.05	31.60	58.35	48.35	-22.31	-16.76
6	0.50547	0.17	33.93	31.70	34.10	31.87	56.00	46.00	-21.90	-14.13

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.

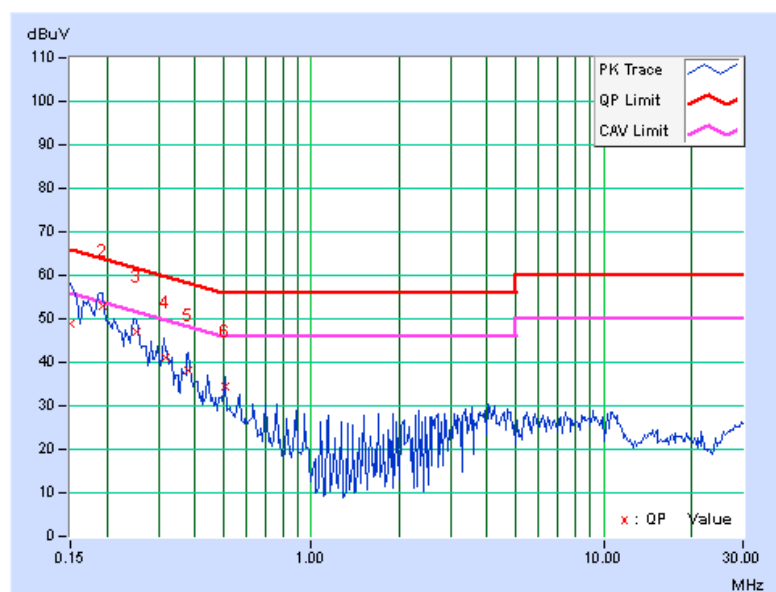


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.09	48.83	21.56	48.92	21.65	66.00	56.00	-17.08	-34.35
2	0.19297	0.10	52.76	46.24	52.86	46.34	63.91	53.91	-11.05	-7.57
3	0.25228	0.11	47.01	40.65	47.12	40.76	61.68	51.68	-14.56	-10.92
4	0.31581	0.13	40.84	35.84	40.97	35.97	59.82	49.82	-18.85	-13.85
5	0.38047	0.15	37.86	33.71	38.01	33.86	58.27	48.27	-20.26	-14.41
6	0.50547	0.15	34.13	31.64	34.28	31.79	56.00	46.00	-21.72	-14.21

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.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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.

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



A D T

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.

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