

FCC TEST REPORT (15.407)

REPORT NO.: RF110907E02S-1

MODEL NO.: AR5B22

FCC ID: PPD-AR5B22

IC: 4104A-AR5B22

RECEIVED: Jan. 23, 2013

TESTED: Jan. 29 to Feb. 04, 2013

ISSUED: Feb. 22, 2013

APPLICANT: Qualcomm Atheros, Inc.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF110907E02S-1	Original release	Feb. 22, 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. 22, 2013
(Lori Chung, Specialist)

APPROVED BY : , **DATE:** Feb. 22, 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 -6.23dB at 0.18906MHz
15.407(b/1/ 2/3) (b)(6)	RSS-210 A9.2	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.7dB at 5150.00MHz.
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 "RF110907E02S-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. (RF110907E02S).
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)	3.54 dB
Radiated emissions (6GHz -18GHz)	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: 93.944mW 802.11n (HT20): 72.121mW 802.11n (HT40): 62.108mW For 15.247(2.4GHz) 802.11b: 164.552mW 802.11g: 462.291mW 802.11n (HT20): 448.813mW 802.11n (HT40): 304.720mW Bluetooth(LE mode): 2.366mW For 15.247(5GHz) 802.11a: 203.039mW 802.11n (HT20): 214.815mW 802.11n (HT40): 211.631mW
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** BOM Changed.
 - 5G TX chain0: C42=0.2pF
 - 5G RX chain0: C126=1.3nH, C122=2.2pF
 - 2G TX chain1: C119=1.3pF, C130=1.3pF
 - 2G, 5G RX chain1: L23=L21=0.1pF, C57=C60=1nH, L22=2nH, C55=1nH, C129=0.4pF, R25=1.8nH, L9=L47=3.6nH, C135=1pF, C52=3pF
- There are Bluetooth technology and WLAN technology used for the EUT. <the Bluetooth test data please refer "RF110907E02S-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	22deg. C, 56%RH	120Vac, 60Hz	Jason Huang
RE<1G	23deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
RE ³ 1G	23deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
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 v01 r02

662911 D01 Multiple Transmitter Output v01 r02

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

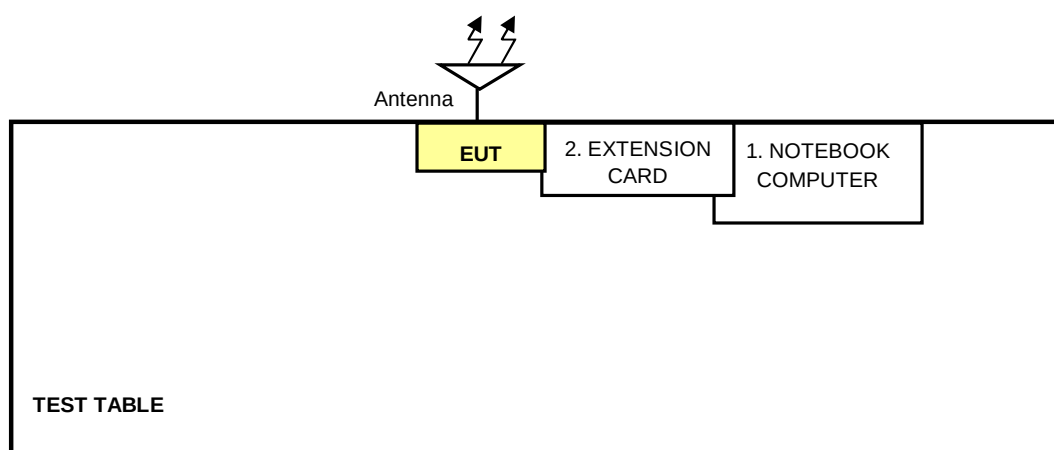
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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

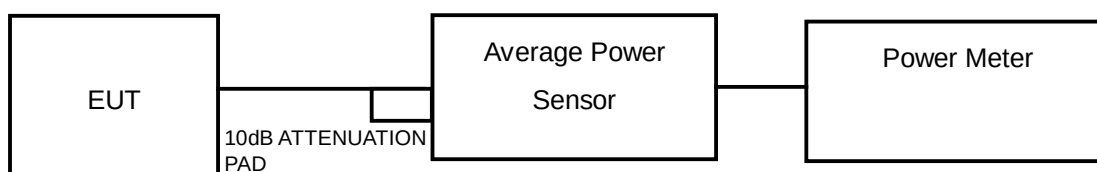
4.1.3 TEST PROCEDURE

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(Jupiter.exe [V1 0 B20]) 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	29.580	14.71	17	PASS
40	5200	27.040	14.32	17	PASS
48	5240	27.733	14.43	17	PASS
52	5260	92.470	19.66	24	PASS
60	5300	91.201	19.60	24	PASS
64	5320	60.534	17.82	24	PASS
100	5500	31.261	14.95	24	PASS
116	5580	56.754	17.54	24	PASS
132	5660	50.933	17.07	24	PASS
140	5700	24.660	13.92	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	11.64	11.60	29.042	14.63	17	PASS
40	5200	11.65	11.21	27.835	14.45	17	PASS
48	5240	11.02	11.56	26.969	14.31	17	PASS
52	5260	15.53	16.23	77.703	18.90	24	PASS
60	5300	16.30	17.10	93.944	19.73	24	PASS
64	5320	13.52	14.73	52.208	17.18	24	PASS
100	5500	11.98	12.11	32.031	15.06	24	PASS
116	5580	15.93	14.94	70.363	18.47	24	PASS
132	5660	14.22	13.55	49.070	16.91	24	PASS
140	5700	12.63	11.54	32.579	15.13	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	11.50	10.93	26.513	14.23	17	PASS
40	5200	11.47	10.81	26.078	14.16	17	PASS
48	5240	11.01	11.35	26.264	14.19	17	PASS
52	5260	15.35	15.78	72.121	18.58	24	PASS
60	5300	14.87	15.40	65.364	18.15	24	PASS
64	5320	14.54	15.48	63.763	18.05	24	PASS
100	5500	12.41	12.32	34.479	15.38	24	PASS
116	5580	15.88	14.70	68.238	18.34	24	PASS
132	5660	15.34	13.54	56.792	17.54	24	PASS
140	5700	12.74	11.25	32.128	15.07	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	9.82	9.55	18.610	12.70	17	PASS
46	5230	13.15	13.56	43.353	16.37	17	PASS
54	5270	14.82	15.02	62.108	17.93	24	PASS
62	5310	10.17	10.78	22.366	13.50	24	PASS
102	5510	8.57	8.86	14.885	11.73	24	PASS
110	5550	14.32	13.81	51.084	17.08	24	PASS
134	5670	11.54	10.22	24.776	13.94	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

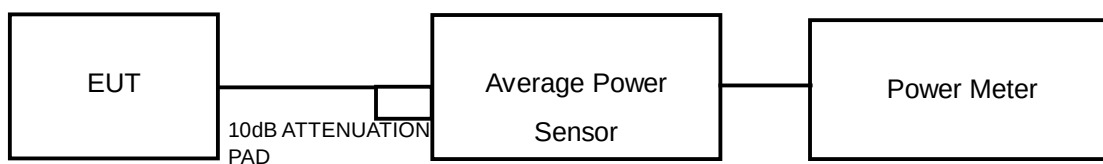
Note:

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	15.21
40	5200	14.82
48	5240	14.93
52	5260	20.06
60	5300	20.11
64	5320	17.82
100	5500	14.95
116	5580	17.54
132	5660	17.07
140	5700	13.92

Multiple chain - 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER OUTPUT (dBm)		AVERAGE POWER OUTPUT (dBm)
		Chain(0)	Chain(1)	
36	5180	11.84	11.81	14.84
40	5200	11.65	11.21	14.45
48	5240	11.02	11.56	14.31
52	5260	15.53	16.23	18.90
60	5300	16.30	17.10	19.73
64	5320	13.52	14.73	17.18
100	5500	11.98	12.11	15.06
116	5580	15.93	14.94	18.47
132	5660	14.22	13.55	16.91
140	5700	12.63	11.54	15.13

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER OUTPUT (dBm)		AVERAGE POWER OUTPUT (dBm)
		Chain(0)	Chain(1)	
36	5180	11.50	10.93	14.23
40	5200	11.47	10.81	14.16
48	5240	11.01	11.35	14.19
52	5260	15.35	15.78	18.58
60	5300	14.87	15.40	18.15
64	5320	14.54	15.48	18.05
100	5500	12.41	12.32	15.38
116	5580	15.88	14.70	18.34
132	5660	15.34	13.54	17.54
140	5700	12.74	11.25	15.07

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER OUTPUT (dBm)		AVERAGE POWER OUTPUT (dBm)
		Chain(0)	Chain(1)	
38	5190	9.82	9.55	12.70
46	5230	13.45	14.01	16.75
54	5270	15.55	15.73	18.65
62	5310	10.17	10.78	13.50
102	5510	8.57	8.86	11.73
110	5550	14.32	13.81	17.08
134	5670	11.54	10.22	13.94

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:

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

4.3.3 TEST INSTRUMENTS

For below 1GHz test:

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 AISL	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, 2013

For Above 1GHz test:

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

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.

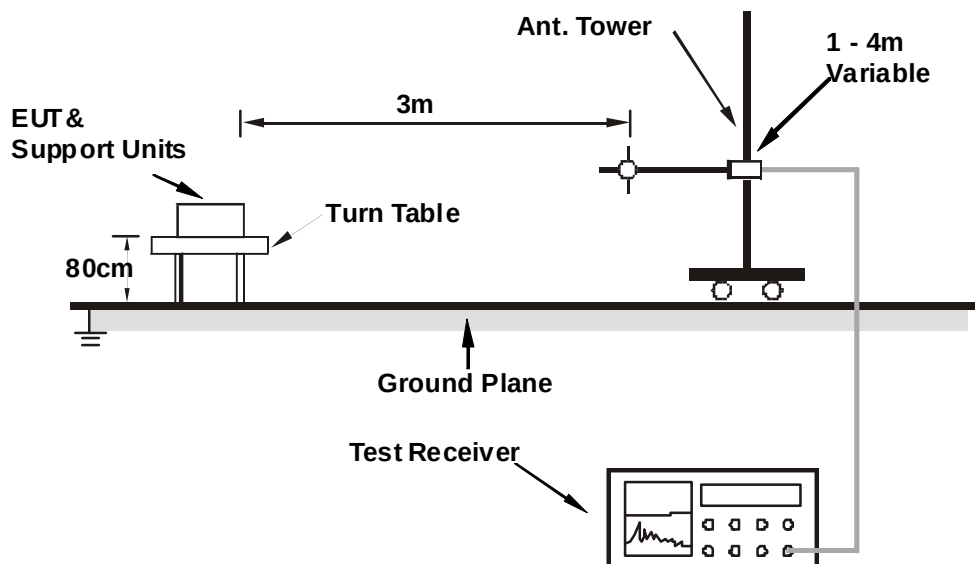
NOTE:

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



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 “Jupiter.exe [V1 0 B20]” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.3.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

Multiple 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	65.62	36.6 QP	40.0	-3.4	1.10 H	37	23.55	13.08
2	75.00	35.7 QP	40.0	-4.4	1.40 H	57	24.49	11.16
3	166.50	39.5 QP	43.5	-4.0	1.85 H	74	25.60	13.93
4	298.70	39.9 QP	46.0	-6.1	1.47 H	87	24.63	15.24
5	369.84	37.5 QP	46.0	-8.5	1.65 H	301	20.37	17.09
6	399.40	37.1 QP	46.0	-8.9	1.32 H	74	19.24	17.84
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	34.12	33.0 QP	40.0	-7.0	1.00 V	147	20.03	12.99
2	148.20	35.2 QP	43.5	-8.3	1.75 V	234	20.40	14.81
3	184.21	37.0 QP	43.5	-6.5	1.47 V	230	24.43	12.58
4	371.01	37.6 QP	46.0	-8.4	1.47 V	174	20.45	17.12
5	398.01	38.4 QP	46.0	-7.6	1.10 V	345	20.60	17.81
6	739.59	35.2 QP	46.0	-10.8	1.00 V	35	10.50	24.71

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.

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	65.2 PK	74.0	-8.8	1.00 H	132	22.63	42.57
2	5150.00	48.2 AV	54.0	-5.8	1.00 H	132	5.63	42.57
3	*5180.00	107.1 PK			1.00 H	132	64.43	42.67
4	*5180.00	96.3 AV			1.00 H	132	53.63	42.67
5	#10360.00	64.0 PK	68.3	-4.3	1.77 H	76	14.59	49.41
6	15540.00	61.2 PK	74.0	-12.8	1.05 H	43	5.75	55.45
7	15540.00	48.9 AV	54.0	-5.1	1.05 H	43	-6.55	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	71.7 PK	74.0	-2.3	1.11 V	255	29.13	42.57
2	5150.00	50.8 AV	54.0	-3.2	1.11 V	255	8.23	42.57
3	*5180.00	108.3 PK			1.11 V	255	65.63	42.67
4	*5180.00	97.8 AV			1.11 V	255	55.13	42.67
5	#10360.00	65.3 PK	68.3	-3.0	1.05 V	91	15.89	49.41
6	15540.00	62.3 PK	74.0	-11.7	1.52 V	60	6.85	55.45
7	15540.00	50.6 AV	54.0	-3.4	1.52 V	60	-4.85	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	*5200.00	106.9 PK			1.00 H	131	64.17	42.73
2	*5200.00	96.1 AV			1.00 H	131	53.37	42.73
3	#10400.00	64.5 PK	68.3	-3.8	1.80 H	89	15.47	49.03
4	15600.00	61.5 PK	74.0	-12.5	1.03 H	52	6.25	55.25
5	15600.00	49.0 AV	54.0	-5.0	1.03 H	52	-6.25	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	*5200.00	108.3 PK			1.08 V	268	65.57	42.73
2	*5200.00	98.0 AV			1.08 V	268	55.27	42.73
3	#10400.00	65.5 PK	68.3	-2.8	1.10 V	89	16.47	49.03
4	15600.00	62.4 PK	74.0	-11.6	1.57 V	75	7.15	55.25
5	15600.00	50.4 AV	54.0	-3.6	1.57 V	75	-4.85	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	106.5 PK			1.02 H	143	63.73	42.77
2	*5240.00	95.9 AV			1.02 H	143	53.13	42.77
3	#10480.00	64.8 PK	68.3	-3.5	1.82 H	103	15.21	49.59
4	15720.00	62.1 PK	74.0	-11.9	1.01 H	48	7.26	54.84
5	15720.00	49.3 AV	54.0	-4.7	1.01 H	48	-5.54	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	108.9 PK			1.08 V	252	66.13	42.77
2	*5240.00	98.4 AV			1.08 V	252	55.63	42.77
3	#10480.00	65.7 PK	68.3	-2.6	1.14 V	93	16.11	49.59
4	15720.00	62.1 PK	74.0	-11.9	1.57 V	87	7.26	54.84
5	15720.00	50.0 AV	54.0	-4.0	1.57 V	87	-4.84	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	110.1 PK			1.01 H	149	67.32	42.78
2	*5260.00	99.2 AV			1.01 H	149	56.42	42.78
3	#10520.00	65.2 PK	68.3	-3.1	1.76 H	101	15.51	49.69
4	15780.00	62.7 PK	74.0	-11.3	1.00 H	43	7.75	54.95
5	15780.00	49.7 AV	54.0	-4.3	1.00 H	43	-5.25	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	113.5 PK			1.03 V	262	70.72	42.78
2	*5260.00	102.5 AV			1.03 V	262	59.72	42.78
3	#10520.00	65.8 PK	68.3	-2.5	1.12 V	106	16.11	49.69
4	15780.00	62.7 PK	74.0	-11.3	1.60 V	71	7.75	54.95
5	15780.00	50.4 AV	54.0	-3.6	1.60 V	71	-4.55	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	110.3 PK			1.00 H	159	67.48	42.82
2	*5300.00	99.2 AV			1.00 H	159	56.38	42.82
3	10600.00	58.2 PK	74.0	-15.8	1.21 H	10	8.65	49.55
4	10600.00	46.7 AV	54.0	-7.3	1.21 H	10	-2.85	49.55
5	15900.00	63.5 PK	74.0	-10.5	1.21 H	10	8.49	55.01
6	15900.00	50.9 AV	54.0	-3.1	1.21 H	10	-4.11	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	112.6 PK			1.00 V	242	69.78	42.82
2	*5300.00	101.8 AV			1.00 V	242	58.98	42.82
3	10600.00	58.8 PK	74.0	-15.2	1.68 V	5	9.25	49.55
4	10600.00	48.5 AV	54.0	-5.5	1.68 V	5	-1.05	49.55
5	15900.00	64.4 PK	74.0	-9.6	1.68 V	5	9.39	55.01
6	15900.00	51.1 AV	54.0	-2.9	1.68 V	5	-3.91	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	108.1 PK			1.00 H	166	65.28	42.82
2	*5320.00	97.4 AV			1.00 H	166	54.58	42.82
3	5350.00	63.2 PK	74.0	-10.8	1.00 H	146	20.37	42.83
4	5350.00	49.3 AV	54.0	-4.7	1.00 H	146	6.47	42.83
5	10640.00	58.4 PK	74.0	-15.6	1.18 H	6	8.74	49.66
6	10640.00	47.0 AV	54.0	-7.0	1.18 H	6	-2.66	49.66
7	15960.00	63.5 PK	74.0	-10.5	1.21 H	18	8.82	54.68
8	15960.00	50.6 AV	54.0	-3.4	1.21 H	18	-4.08	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	111.4 PK			1.02 V	288	68.58	42.82
2	*5320.00	99.1 AV			1.02 V	288	56.28	42.82
3	5350.00	64.5 PK	74.0	-9.5	1.07 V	255	21.67	42.83
4	5350.00	51.2 AV	54.0	-2.8	1.07 V	255	8.37	42.83
5	10640.00	58.7 PK	74.0	-15.3	1.73 V	16	9.04	49.66
6	10640.00	48.4 AV	54.0	-5.6	1.73 V	16	-1.26	49.66
7	15960.00	64.3 PK	74.0	-9.7	1.70 V	12	9.62	54.68
8	15960.00	51.2 AV	54.0	-2.8	1.70 V	12	-3.48	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	64.8 PK	74.0	-9.2	1.01 H	137	21.77	43.03
2	5460.00	49.5 AV	54.0	-4.5	1.01 H	137	6.47	43.03
3	#5470.00	65.0 PK	68.3	-3.3	1.02 H	146	21.94	43.06
4	*5500.00	106.2 PK			1.00 H	168	63.04	43.16
5	*5500.00	95.1 AV			1.00 H	168	51.94	43.16
6	11000.00	58.3 PK	74.0	-15.7	1.21 H	13	8.09	50.21
7	11000.00	46.9 AV	54.0	-7.1	1.21 H	13	-3.31	50.21
8	#16500.00	62.8 PK	68.3	-5.5	1.00 H	58	6.33	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	65.4 PK	74.0	-8.6	1.09 V	265	22.37	43.03
2	5460.00	49.2 AV	54.0	-4.8	1.09 V	265	6.17	43.03
3	#5470.00	66.2 PK	68.3	-2.1	1.09 V	265	23.14	43.06
4	*5500.00	109.4 PK			1.09 V	265	66.24	43.16
5	*5500.00	97.2 AV			1.09 V	265	54.04	43.16
6	11000.00	58.4 PK	74.0	-15.6	1.68 V	8	8.19	50.21
7	11000.00	48.3 AV	54.0	-5.7	1.68 V	8	-1.91	50.21
8	#16500.00	64.1 PK	68.3	-4.2	1.66 V	20	7.63	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	108.5 PK			1.00 H	170	65.17	43.33
2	*5580.00	97.6 AV			1.00 H	170	54.27	43.33
3	11160.00	62.1 PK	74.0	-11.9	1.85 H	37	12.12	49.98
4	11160.00	50.0 AV	54.0	-4.0	1.85 H	37	0.02	49.98
5	#16740.00	63.1 PK	68.3	-5.2	1.03 H	46	6.39	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	110.8 PK			1.05 V	220	67.47	43.33
2	*5580.00	98.7 AV			1.05 V	220	55.37	43.33
3	11160.00	59.3 PK	74.0	-14.7	1.69 V	18	9.32	49.98
4	11160.00	48.8 AV	54.0	-5.2	1.69 V	18	-1.18	49.98
5	#16740.00	64.4 PK	68.3	-3.9	1.67 V	13	7.69	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	108.5 PK			1.00 H	181	65.09	43.41
2	*5660.00	97.6 AV			1.00 H	181	54.19	43.41
3	11320.00	62.3 PK	74.0	-11.7	1.81 H	39	11.87	50.43
4	11320.00	50.3 AV	54.0	-3.7	1.81 H	39	-0.13	50.43
5	#16980.00	63.7 PK	68.3	-4.6	1.04 H	48	6.03	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	110.2 PK			1.00 V	209	66.79	43.41
2	*5660.00	98.5 AV			1.00 V	209	55.09	43.41
3	11320.00	59.9 PK	74.0	-14.1	1.71 V	32	9.47	50.43
4	11320.00	49.2 AV	54.0	-4.8	1.71 V	32	-1.23	50.43
5	#16980.00	64.7 PK	68.3	-3.6	1.65 V	10	7.03	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	105.2 PK			1.00 H	179	61.77	43.43
2	*5700.00	94.1 AV			1.00 H	179	50.67	43.43
3	#5725.00	62.2 PK	68.3	-6.1	1.00 H	158	18.75	43.45
4	11400.00	61.9 PK	74.0	-12.1	1.76 H	32	11.62	50.28
5	11400.00	49.9 AV	54.0	-4.1	1.76 H	32	-0.38	50.28
6	#17100.00	61.9 PK	68.3	-6.4	1.08 H	59	4.44	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	107.6 PK			1.04 V	265	64.17	43.43
2	*5700.00	96.2 AV			1.04 V	265	52.77	43.43
3	#5725.00	64.9 PK	68.3	-3.4	1.04 V	262	21.45	43.45
4	11400.00	59.6 PK	74.0	-14.4	1.73 V	38	9.32	50.28
5	11400.00	48.9 AV	54.0	-5.1	1.73 V	38	-1.38	50.28
6	#17100.00	64.7 PK	68.3	-3.6	1.69 V	5	7.24	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	67.2 PK	74.0	-6.8	1.00 H	154	24.63	42.57
2	5150.00	48.1 AV	54.0	-5.9	1.00 H	154	5.53	42.57
3	*5180.00	104.5 PK			1.00 H	180	61.83	42.67
4	*5180.00	93.4 AV			1.00 H	180	50.73	42.67
5	#10360.00	61.8 PK	68.3	-6.5	1.78 H	23	12.39	49.41
6	15540.00	67.0 PK	74.0	-7.0	1.08 H	62	11.55	55.45
7	15540.00	48.0 AV	54.0	-6.0	1.08 H	62	-7.45	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	71.6 PK	74.0	-2.4	1.08 V	243	29.03	42.57
2	5150.00	50.9 AV	54.0	-3.1	1.08 V	243	8.33	42.57
3	*5180.00	106.4 PK			1.08 V	243	63.73	42.67
4	*5180.00	97.1 AV			1.08 V	243	54.43	42.67
5	#10360.00	63.3 PK	68.3	-5.0	1.02 V	101	13.89	49.41
6	15540.00	64.2 PK	74.0	-9.8	1.65 V	26	8.75	55.45
7	15540.00	50.4 AV	54.0	-3.6	1.65 V	26	-5.05	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	*5200.00	104.3 PK			1.00 H	180	61.57	42.73
2	*5200.00	93.2 AV			1.00 H	180	50.47	42.73
3	#10400.00	62.5 PK	68.3	-5.8	1.81 H	37	13.47	49.03
4	15600.00	63.4 PK	74.0	-10.6	1.06 H	54	8.15	55.25
5	15600.00	50.1 AV	54.0	-3.9	1.06 H	54	-5.15	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	*5200.00	106.1 PK			1.03 V	254	63.37	42.73
2	*5200.00	96.9 AV			1.03 V	254	54.17	42.73
3	#10400.00	63.7 PK	68.3	-4.6	1.00 V	95	14.67	49.03
4	15600.00	64.1 PK	74.0	-9.9	1.68 V	34	8.85	55.25
5	15600.00	51.1 AV	54.0	-2.9	1.68 V	34	-4.15	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	104.4 PK			1.00 H	180	61.63	42.77
2	*5240.00	93.0 AV			1.00 H	180	50.23	42.77
3	#10480.00	63.1 PK	68.3	-5.2	1.82 H	23	13.51	49.59
4	15720.00	63.1 PK	74.0	-10.9	1.04 H	52	8.26	54.84
5	15720.00	49.7 AV	54.0	-4.3	1.04 H	52	-5.14	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	106.3 PK			1.00 V	246	63.53	42.77
2	*5240.00	97.0 AV			1.00 V	246	54.23	42.77
3	#10480.00	63.9 PK	68.3	-4.4	1.00 V	85	14.31	49.59
4	15720.00	64.4 PK	74.0	-9.6	1.72 V	18	9.56	54.84
5	15720.00	51.5 AV	54.0	-2.5	1.72 V	18	-3.34	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	175	64.72	42.78
2	*5260.00	95.8 AV			1.00 H	175	53.02	42.78
3	#10520.00	63.3 PK	68.3	-5.0	1.82 H	20	13.61	49.69
4	15780.00	62.7 PK	74.0	-11.3	1.03 H	55	7.75	54.95
5	15780.00	49.2 AV	54.0	-4.8	1.03 H	55	-5.75	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	111.1 PK			1.06 V	266	68.32	42.78
2	*5260.00	100.1 AV			1.06 V	266	57.32	42.78
3	#10520.00	63.2 PK	68.3	-5.1	1.00 V	98	13.51	49.69
4	15780.00	64.2 PK	74.0	-9.8	1.72 V	26	9.25	54.95
5	15780.00	51.8 AV	54.0	-2.2	1.72 V	26	-3.15	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	108.3 PK			1.00 H	172	65.48	42.82
2	*5300.00	96.3 AV			1.00 H	172	53.48	42.82
3	10600.00	63.3 PK	74.0	-10.7	1.83 H	11	13.75	49.55
4	10600.00	50.8 AV	54.0	-3.2	1.83 H	11	1.25	49.55
5	15900.00	63.3 PK	74.0	-10.7	1.06 H	70	8.29	55.01
6	15900.00	49.5 AV	54.0	-4.5	1.06 H	70	-5.51	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	111.4 PK			1.01 V	267	68.58	42.82
2	*5300.00	100.5 AV			1.01 V	267	57.68	42.82
3	10600.00	60.0 PK	74.0	-14.0	1.66 V	24	10.45	49.55
4	10600.00	49.4 AV	54.0	-4.6	1.66 V	24	-0.15	49.55
5	15900.00	64.0 PK	74.0	-10.0	1.78 V	23	8.99	55.01
6	15900.00	51.9 AV	54.0	-2.1	1.78 V	23	-3.11	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	108.5 PK			1.03 H	171	65.68	42.82
2	*5320.00	96.7 AV			1.03 H	171	53.88	42.82
3	5350.00	67.5 PK	74.0	-6.5	1.00 H	159	24.67	42.83
4	5350.00	48.2 AV	54.0	-5.8	1.00 H	159	5.37	42.83
5	10640.00	63.6 PK	74.0	-10.4	1.82 H	21	13.94	49.66
6	10640.00	51.0 AV	54.0	-3.0	1.82 H	21	1.34	49.66
7	15960.00	63.4 PK	74.0	-10.6	1.11 H	60	8.72	54.68
8	15960.00	49.8 AV	54.0	-4.2	1.11 H	60	-4.88	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	109.9 PK			1.08 V	253	67.08	42.82
2	*5320.00	98.9 AV			1.08 V	253	56.08	42.82
3	5350.00	60.5 PK	74.0	-13.5	1.08 V	253	17.67	42.83
4	5350.00	49.1 AV	54.0	-4.9	1.08 V	253	6.27	42.83
5	10640.00	59.9 PK	74.0	-14.1	1.70 V	15	10.24	49.66
6	10640.00	49.4 AV	54.0	-4.6	1.70 V	15	-0.26	49.66
7	15960.00	64.3 PK	74.0	-9.7	1.84 V	21	9.62	54.68
8	15960.00	52.3 AV	54.0	-1.7	1.84 V	21	-2.38	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	60.4 PK	74.0	-13.6	1.05 H	145	17.37	43.03
2	5460.00	49.2 AV	54.0	-4.8	1.05 H	145	6.17	43.03
3	#5470.00	60.8 PK	68.3	-7.5	1.00 H	150	17.74	43.06
4	*5500.00	104.8 PK			1.00 H	172	61.64	43.16
5	*5500.00	93.7 AV			1.00 H	172	50.54	43.16
6	11000.00	58.4 PK	74.0	-15.6	1.16 H	7	8.19	50.21
7	11000.00	47.2 AV	54.0	-6.8	1.16 H	7	-3.01	50.21
8	#16500.00	63.1 PK	68.3	-5.2	1.01 H	71	6.63	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	62.0 PK	74.0	-12.0	1.13 V	281	18.97	43.03
2	5460.00	49.1 AV	54.0	-4.9	1.13 V	281	6.07	43.03
3	#5470.00	62.4 PK	68.3	-5.9	1.13 V	281	19.34	43.06
4	*5500.00	107.0 PK			1.13 V	281	63.84	43.16
5	*5500.00	96.9 AV			1.13 V	281	53.74	43.16
6	11000.00	60.1 PK	74.0	-13.9	1.70 V	11	9.89	50.21
7	11000.00	49.6 AV	54.0	-4.4	1.70 V	11	-0.61	50.21
8	#16500.00	64.5 PK	68.3	-3.8	1.85 V	28	8.03	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	106.7 PK			1.00 H	157	63.37	43.33
2	*5580.00	95.8 AV			1.00 H	157	52.47	43.33
3	11160.00	58.9 PK	74.0	-15.1	1.19 H	4	8.92	49.98
4	11160.00	47.6 AV	54.0	-6.4	1.19 H	4	-2.38	49.98
5	#16740.00	63.4 PK	68.3	-4.9	1.07 H	65	6.69	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	110.1 PK			1.05 V	220	66.77	43.33
2	*5580.00	99.4 AV			1.05 V	220	56.07	43.33
3	11160.00	60.2 PK	74.0	-13.8	1.20 V	25	10.22	49.98
4	11160.00	49.9 AV	54.0	-4.1	1.20 V	25	-0.08	49.98
5	#16740.00	64.7 PK	68.3	-3.6	1.86 V	28	7.99	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.



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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	105.7 PK			1.00 H	156	62.29	43.41
2	*5660.00	94.7 AV			1.00 H	156	51.29	43.41
3	11320.00	58.8 PK	74.0	-15.2	1.21 H	16	8.37	50.43
4	11320.00	47.7 AV	54.0	-6.3	1.21 H	16	-2.73	50.43
5	#16980.00	63.0 PK	68.3	-5.3	1.05 H	69	5.33	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	109.2 PK			1.04 V	210	65.79	43.41
2	*5660.00	98.5 AV			1.04 V	210	55.09	43.41
3	11320.00	59.5 PK	74.0	-14.5	1.21 V	23	9.07	50.43
4	11320.00	49.5 AV	54.0	-4.5	1.21 V	23	-0.93	50.43
5	#16980.00	64.3 PK	68.3	-4.0	1.82 V	20	6.63	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	102.4 PK			1.01 H	184	58.97	43.43
2	*5700.00	91.6 AV			1.01 H	184	48.17	43.43
3	#5725.00	59.8 PK	68.3	-8.5	1.07 H	152	16.35	43.45
4	11400.00	58.4 PK	74.0	-15.6	1.14 H	23	8.12	50.28
5	11400.00	47.4 AV	54.0	-6.6	1.14 H	23	-2.88	50.28
6	#17100.00	59.6 PK	68.3	-8.7	1.05 H	67	2.14	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	104.9 PK			1.12 V	243	61.47	43.43
2	*5700.00	94.8 AV			1.12 V	243	51.37	43.43
3	#5725.00	61.9 PK	68.3	-6.4	1.12 V	243	18.45	43.45
4	11400.00	60.0 PK	74.0	-14.0	1.18 V	14	9.72	50.28
5	11400.00	50.0 AV	54.0	-4.0	1.18 V	14	-0.28	50.28
6	#17100.00	64.1 PK	68.3	-4.2	1.83 V	14	6.64	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.

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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	59.8 PK	74.0	-14.2	1.05 H	160	17.23	42.57
2	5150.00	46.9 AV	54.0	-7.1	1.05 H	160	4.33	42.57
3	*5180.00	106.4 PK			1.01 H	191	63.73	42.67
4	*5180.00	95.8 AV			1.01 H	191	53.13	42.67
5	#10360.00	58.0 PK	68.3	-10.3	1.10 H	23	8.59	49.41
6	15540.00	59.9 PK	74.0	-14.1	1.09 H	54	4.45	55.45
7	15540.00	49.3 AV	54.0	-4.7	1.09 H	54	-6.15	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	63.2 PK	74.0	-10.8	1.12 V	256	20.63	42.57
2	5150.00	50.2 AV	54.0	-3.8	1.12 V	256	7.63	42.57
3	*5180.00	108.3 PK			1.12 V	256	65.63	42.67
4	*5180.00	97.8 AV			1.12 V	256	55.13	42.67
5	#10360.00	63.1 PK	68.3	-5.2	1.00 V	101	13.69	49.41
6	15540.00	64.4 PK	74.0	-9.6	1.74 V	30	8.95	55.45
7	15540.00	52.2 AV	54.0	-1.8	1.74 V	30	-3.25	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	*5200.00	106.1 PK			1.06 H	181	63.37	42.73
2	*5200.00	94.9 AV			1.06 H	181	52.17	42.73
3	#10400.00	57.9 PK	68.3	-10.4	1.10 H	34	8.87	49.03
4	15600.00	60.0 PK	74.0	-14.0	1.07 H	56	4.75	55.25
5	15600.00	49.4 AV	54.0	-4.6	1.07 H	56	-5.85	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	*5200.00	108.6 PK			1.10 V	259	65.87	42.73
2	*5200.00	97.9 AV			1.10 V	259	55.17	42.73
3	#10400.00	63.6 PK	68.3	-4.7	1.00 V	106	14.57	49.03
4	15600.00	63.4 PK	74.0	-10.6	1.64 V	39	8.15	55.25
5	15600.00	50.7 AV	54.0	-3.3	1.64 V	39	-4.55	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	106.2 PK			1.03 H	196	63.43	42.77
2	*5240.00	94.7 AV			1.03 H	196	51.93	42.77
3	#10480.00	57.2 PK	68.3	-11.1	1.07 H	30	7.61	49.59
4	15720.00	59.7 PK	74.0	-14.3	1.05 H	64	4.86	54.84
5	15720.00	49.4 AV	54.0	-4.6	1.05 H	64	-5.44	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			1.10 V	261	65.13	42.77
2	*5240.00	97.5 AV			1.10 V	261	54.73	42.77
3	#10480.00	64.3 PK	68.3	-4.0	1.00 V	107	14.71	49.59
4	15720.00	62.9 PK	74.0	-11.1	1.68 V	38	8.06	54.84
5	15720.00	50.3 AV	54.0	-3.7	1.68 V	38	-4.54	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	108.1 PK			1.08 H	198	65.32	42.78
2	*5260.00	96.2 AV			1.08 H	198	53.42	42.78
3	#10520.00	57.0 PK	68.3	-11.3	1.02 H	17	7.31	49.69
4	15780.00	59.2 PK	74.0	-14.8	1.02 H	52	4.25	54.95
5	15780.00	49.1 AV	54.0	-4.9	1.02 H	52	-5.85	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	108.9 PK			1.00 V	233	66.12	42.78
2	*5260.00	99.8 AV			1.00 V	233	57.02	42.78
3	#10520.00	64.4 PK	68.3	-3.9	1.01 V	98	14.71	49.69
4	15780.00	62.9 PK	74.0	-11.1	1.63 V	41	7.95	54.95
5	15780.00	50.1 AV	54.0	-3.9	1.63 V	41	-4.85	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	107.8 PK			1.00 H	200	64.98	42.82
2	*5300.00	95.9 AV			1.00 H	200	53.08	42.82
3	10600.00	57.4 PK	74.0	-16.6	1.03 H	12	7.85	49.55
4	10600.00	47.1 AV	54.0	-6.9	1.03 H	12	-2.45	49.55
5	15900.00	59.0 PK	74.0	-15.0	1.00 H	49	3.99	55.01
6	15900.00	48.7 AV	54.0	-5.3	1.00 H	49	-6.31	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	109.1 PK			1.00 V	243	66.28	42.82
2	*5300.00	99.2 AV			1.00 V	243	56.38	42.82
3	10600.00	59.8 PK	74.0	-14.2	1.67 V	9	10.25	49.55
4	10600.00	49.4 AV	54.0	-4.6	1.67 V	9	-0.15	49.55
5	15900.00	64.3 PK	74.0	-9.7	1.88 V	32	9.29	55.01
6	15900.00	52.0 AV	54.0	-2.0	1.88 V	32	-3.01	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	107.4 PK			1.00 H	214	64.58	42.82
2	*5320.00	95.5 AV			1.00 H	214	52.68	42.82
3	5350.00	59.5 PK	74.0	-14.5	1.08 H	56	16.67	42.83
4	5350.00	49.0 AV	54.0	-5.0	1.08 H	56	6.17	42.83
5	10640.00	57.1 PK	74.0	-16.9	1.00 H	20	7.44	49.66
6	10640.00	46.7 AV	54.0	-7.3	1.00 H	20	-2.96	49.66
7	15960.00	58.4 PK	74.0	-15.6	1.00 H	52	3.72	54.68
8	15960.00	48.2 AV	54.0	-5.8	1.00 H	52	-6.48	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	109.8 PK			1.11 V	265	66.98	42.82
2	*5320.00	99.8 AV			1.11 V	265	56.98	42.82
3	5350.00	62.3 PK	74.0	-11.7	1.11 V	265	19.47	42.83
4	5350.00	50.0 AV	54.0	-4.0	1.11 V	265	7.17	42.83
5	10640.00	60.2 PK	74.0	-13.8	1.63 V	9	10.54	49.66
6	10640.00	49.8 AV	54.0	-4.2	1.63 V	9	0.14	49.66
7	15960.00	64.1 PK	74.0	-9.9	1.84 V	43	9.42	54.68
8	15960.00	52.0 AV	54.0	-2.0	1.84 V	43	-2.68	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	60.5 PK	74.0	-13.5	1.07 H	147	17.47	43.03
2	5460.00	48.6 AV	54.0	-5.4	1.07 H	147	5.57	43.03
3	#5470.00	61.0 PK	68.3	-7.3	1.00 H	137	17.94	43.06
4	*5500.00	105.1 PK			1.00 H	161	61.94	43.16
5	*5500.00	94.1 AV			1.00 H	161	50.94	43.16
6	11000.00	58.1 PK	74.0	-15.9	1.10 H	13	7.89	50.21
7	11000.00	46.9 AV	54.0	-7.1	1.10 H	13	-3.31	50.21
8	#16500.00	63.5 PK	68.3	-4.8	1.02 H	74	7.03	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	62.2 PK	74.0	-11.8	1.07 V	296	19.17	43.03
2	5460.00	49.1 AV	54.0	-4.9	1.07 V	296	6.07	43.03
3	#5470.00	62.5 PK	68.3	-5.8	1.15 V	288	19.44	43.06
4	*5500.00	106.8 PK			1.00 V	258	63.64	43.16
5	*5500.00	97.6 AV			1.00 V	258	54.44	43.16
6	11000.00	59.8 PK	74.0	-14.2	1.21 V	26	9.59	50.21
7	11000.00	49.9 AV	54.0	-4.1	1.21 V	26	-0.31	50.21
8	#16500.00	64.7 PK	68.3	-3.6	1.78 V	13	8.23	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	108.2 PK			1.04 H	214	64.87	43.33
2	*5580.00	97.4 AV			1.04 H	214	54.07	43.33
3	11160.00	56.9 PK	74.0	-17.1	1.02 H	7	6.92	49.98
4	11160.00	46.3 AV	54.0	-7.7	1.02 H	7	-3.68	49.98
5	#16740.00	58.4 PK	68.3	-9.9	1.00 H	67	1.69	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	110.8 PK			1.01 V	218	67.47	43.33
2	*5580.00	99.9 AV			1.01 V	218	56.57	43.33
3	11160.00	59.8 PK	74.0	-14.2	1.17 V	24	9.82	49.98
4	11160.00	50.1 AV	54.0	-3.9	1.17 V	24	0.12	49.98
5	#16740.00	64.9 PK	68.3	-3.4	1.83 V	1	8.19	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.



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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	107.8 PK			1.00 H	161	64.39	43.41
2	*5660.00	96.8 AV			1.00 H	161	53.39	43.41
3	11320.00	58.5 PK	74.0	-15.5	1.15 H	16	8.07	50.43
4	11320.00	47.4 AV	54.0	-6.6	1.15 H	16	-3.03	50.43
5	#16980.00	63.2 PK	68.3	-5.1	1.06 H	68	5.53	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	109.9 PK			1.00 V	219	66.49	43.41
2	*5660.00	98.9 AV			1.00 V	219	55.49	43.41
3	11320.00	59.8 PK	74.0	-14.2	1.16 V	8	9.37	50.43
4	11320.00	50.0 AV	54.0	-4.0	1.16 V	8	-0.43	50.43
5	#16980.00	64.8 PK	68.3	-3.5	1.83 V	13	7.13	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	102.4 PK			1.01 H	190	58.97	43.43
2	*5700.00	91.7 AV			1.01 H	190	48.27	43.43
3	#5725.00	60.2 PK	68.3	-8.1	1.12 H	140	16.75	43.45
4	11400.00	57.8 PK	74.0	-16.2	1.08 H	7	7.52	50.28
5	11400.00	47.0 AV	54.0	-7.0	1.08 H	7	-3.28	50.28
6	#17100.00	59.8 PK	68.3	-8.5	1.05 H	70	2.34	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	105.1 PK			1.12 V	258	61.67	43.43
2	*5700.00	95.0 AV			1.12 V	258	51.57	43.43
3	#5725.00	61.5 PK	68.3	-6.8	1.07 V	252	18.05	43.45
4	11400.00	60.5 PK	74.0	-13.5	1.22 V	20	10.22	50.28
5	11400.00	50.5 AV	54.0	-3.5	1.22 V	20	0.22	50.28
6	#17100.00	65.0 PK	68.3	-3.3	1.78 V	30	7.54	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.

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	60.2 PK	74.0	-13.8	1.03 H	147	17.63	42.57
2	5150.00	48.5 AV	54.0	-5.5	1.03 H	147	5.93	42.57
3	*5190.00	100.2 PK			1.06 H	188	57.50	42.70
4	*5190.00	89.4 AV			1.06 H	188	46.70	42.70
5	#10380.00	57.6 PK	68.3	-10.7	1.09 H	19	8.38	49.22
6	15570.00	60.2 PK	74.0	-13.8	1.07 H	40	4.85	55.35
7	15570.00	49.7 AV	54.0	-4.3	1.07 H	40	-5.65	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	5150.00	68.4 PK	74.0	-5.6	1.11 V	257	25.83	42.57
2	5150.00	53.3 AV	54.0	-0.7	1.11 V	257	10.73	42.57
3	*5190.00	103.1 PK			1.11 V	257	60.40	42.70
4	*5190.00	92.5 AV			1.11 V	257	49.80	42.70
5	#10380.00	64.0 PK	68.3	-4.3	1.01 V	86	14.78	49.22
6	15570.00	62.4 PK	74.0	-11.6	1.68 V	44	7.05	55.35
7	15570.00	49.7 AV	54.0	-4.3	1.68 V	44	-5.65	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.

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	103.4 PK			1.11 H	183	60.64	42.76
2	*5230.00	93.1 AV			1.11 H	183	50.34	42.76
3	#10460.00	57.3 PK	68.3	-11.0	1.12 H	24	7.85	49.45
4	15690.00	59.7 PK	74.0	-14.3	1.03 H	39	4.86	54.84
5	15690.00	49.4 AV	54.0	-4.6	1.03 H	39	-5.44	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	*5230.00	107.2 PK			1.11 V	254	64.44	42.76
2	*5230.00	96.1 AV			1.11 V	254	53.34	42.76
3	#10460.00	64.2 PK	68.3	-4.1	1.00 V	100	14.75	49.45
4	15690.00	62.0 PK	74.0	-12.0	1.62 V	42	7.16	54.84
5	15690.00	49.5 AV	54.0	-4.5	1.62 V	42	-5.34	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 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	104.6 PK			1.17 H	172	61.81	42.79
2	*5270.00	94.2 AV			1.17 H	172	51.41	42.79
3	#10540.00	57.2 PK	68.3	-11.1	1.15 H	23	7.54	49.66
4	15810.00	59.9 PK	74.0	-14.1	1.07 H	40	4.91	54.99
5	15810.00	49.5 AV	54.0	-4.5	1.07 H	40	-5.49	54.99
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	*5270.00	108.3 PK			1.11 V	265	65.51	42.79
2	*5270.00	98.0 AV			1.11 V	265	55.21	42.79
3	#10540.00	64.4 PK	68.3	-3.9	1.03 V	113	14.74	49.66
4	15810.00	62.2 PK	74.0	-11.8	1.62 V	47	7.21	54.99
5	15810.00	49.5 AV	54.0	-4.5	1.62 V	47	-5.49	54.99

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 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	100.1 PK			1.10 H	192	57.28	42.82
2	*5310.00	89.0 AV			1.10 H	192	46.18	42.82
3	5350.00	60.2 PK	74.0	-13.8	1.01 H	142	17.37	42.83
4	5350.00	48.6 AV	54.0	-5.4	1.01 H	142	5.77	42.83
5	10620.00	57.6 PK	74.0	-16.4	1.12 H	23	8.00	49.60
6	10620.00	47.1 AV	54.0	-6.9	1.12 H	23	-2.50	49.60
7	15930.00	59.7 PK	74.0	-14.3	1.02 H	36	4.86	54.84
8	15930.00	49.4 AV	54.0	-4.6	1.02 H	36	-5.44	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	*5310.00	103.6 PK			1.11 V	265	60.78	42.82
2	*5310.00	93.3 AV			1.11 V	265	50.48	42.82
3	5350.00	65.6 PK	74.0	-8.4	1.11 V	265	22.77	42.83
4	5350.00	51.6 AV	54.0	-2.4	1.11 V	265	8.77	42.83
5	10620.00	60.3 PK	74.0	-13.7	1.58 V	0	10.70	49.60
6	10620.00	50.0 AV	54.0	-4.0	1.58 V	0	0.40	49.60
7	15930.00	64.5 PK	74.0	-9.5	1.78 V	40	9.66	54.84
8	15930.00	52.5 AV	54.0	-1.5	1.78 V	40	-2.34	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.

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	60.4 PK	74.0	-13.6	1.12 H	134	17.37	43.03
2	5460.00	48.4 AV	54.0	-5.6	1.12 H	134	5.37	43.03
3	#5470.00	60.5 PK	68.3	-7.8	1.02 H	152	17.44	43.06
4	*5510.00	98.2 PK			1.00 H	163	55.02	43.18
5	*5510.00	87.6 AV			1.00 H	163	44.42	43.18
6	11020.00	58.1 PK	74.0	-15.9	1.08 H	9	7.94	50.16
7	11020.00	46.8 AV	54.0	-7.2	1.08 H	9	-3.36	50.16
8	#16530.00	63.5 PK	68.3	-4.8	1.05 H	64	6.74	56.76
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	64.2 PK	74.0	-9.8	1.12 V	243	21.17	43.03
2	5460.00	50.5 AV	54.0	-3.5	1.12 V	243	7.47	43.03
3	#5470.00	67.2 PK	68.3	-1.1	1.12 V	243	24.14	43.06
4	*5510.00	101.1 PK			1.12 V	243	57.92	43.18
5	*5510.00	91.0 AV			1.12 V	243	47.82	43.18
6	11020.00	59.5 PK	74.0	-14.5	1.10 V	23	9.34	50.16
7	11020.00	50.0 AV	54.0	-4.0	1.10 V	23	-0.16	50.16
8	#16530.00	64.4 PK	68.3	-3.9	1.80 V	2	7.64	56.76

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 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	104.5 PK			1.00 H	174	61.23	43.27
2	*5550.00	93.8 AV			1.00 H	174	50.53	43.27
3	11100.00	58.4 PK	74.0	-15.6	1.10 H	5	8.46	49.94
4	11100.00	46.8 AV	54.0	-7.2	1.10 H	5	-3.14	49.94
5	#16650.00	63.4 PK	68.3	-4.9	1.11 H	51	6.28	57.12
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	107.9 PK			1.15 V	255	64.63	43.27
2	*5550.00	97.8 AV			1.15 V	255	54.53	43.27
3	11100.00	59.6 PK	74.0	-14.4	1.06 V	15	9.66	49.94
4	11100.00	50.3 AV	54.0	-3.7	1.06 V	15	0.36	49.94
5	#16650.00	64.7 PK	68.3	-3.6	1.84 V	8	7.58	57.12

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	100.4 PK			1.00 H	161	56.99	43.41
2	*5670.00	89.6 AV			1.00 H	161	46.19	43.41
3	#5725.00	61.1 PK	68.3	-7.2	1.11 H	149	17.65	43.45
4	11340.00	57.7 PK	74.0	-16.3	1.08 H	11	7.31	50.39
5	11340.00	46.7 AV	54.0	-7.3	1.08 H	11	-3.69	50.39
6	#17010.00	63.8 PK	68.3	-4.5	1.08 H	60	6.03	57.77
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	*5670.00	103.6 PK			1.12 V	243	60.19	43.41
2	*5670.00	92.4 AV			1.12 V	243	48.99	43.41
3	#5725.00	62.2 PK	68.3	-6.1	1.12 V	243	18.75	43.45
4	11340.00	59.7 PK	74.0	-14.3	1.10 V	7	9.31	50.39
5	11340.00	50.5 AV	54.0	-3.5	1.10 V	7	0.11	50.39
6	#17010.00	64.7 PK	68.3	-3.6	1.86 V	20	6.93	57.77

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.
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.

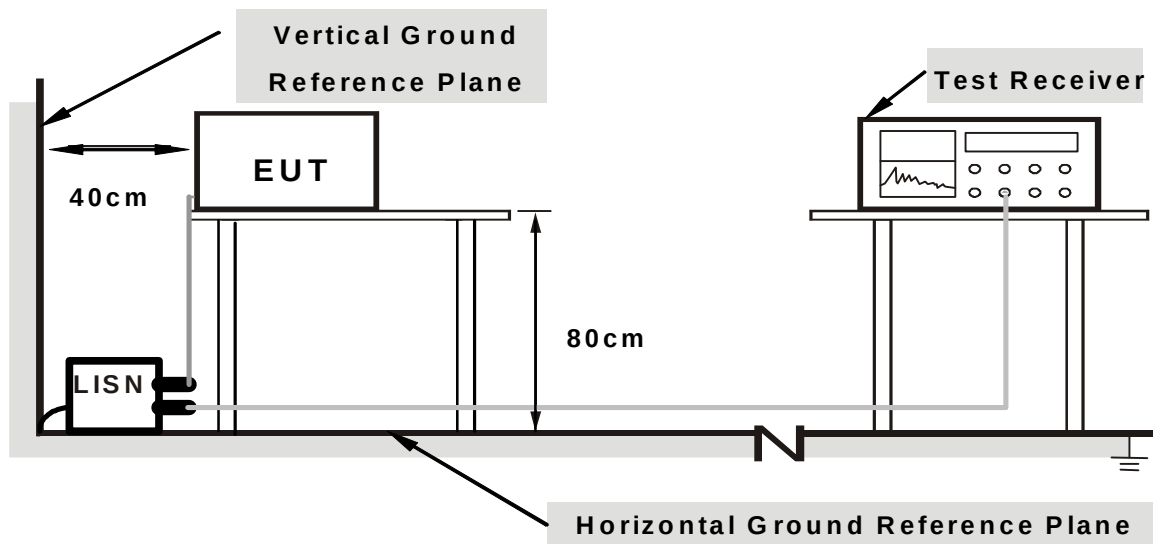
NOTE:

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

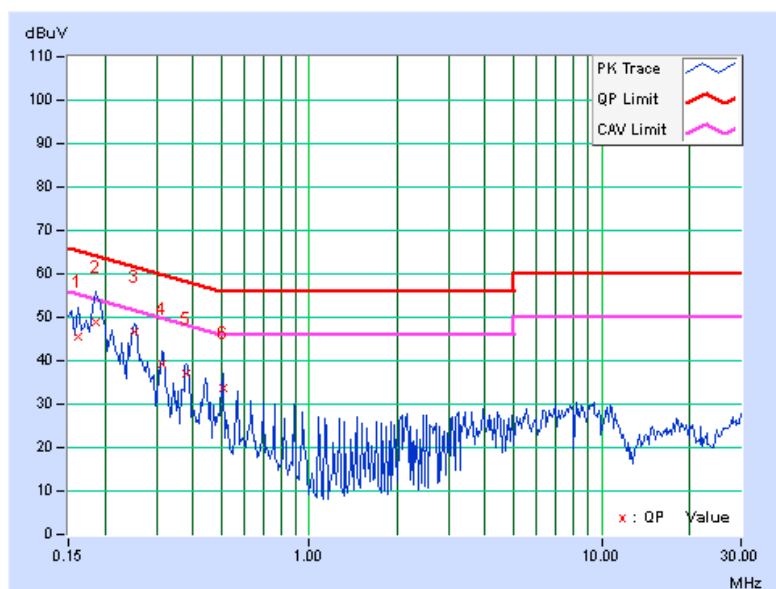
4.4.7 TEST RESULTS

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	0.16172	0.11	45.54	17.45	45.65	17.56	65.38	55.38	-19.73	-37.82
2	0.18516	0.12	48.66	43.08	48.78	43.20	64.25	54.25	-15.48	-11.06
3	0.25156	0.13	46.50	40.50	46.63	40.63	61.71	51.71	-15.08	-11.08
4	0.31406	0.14	38.97	34.98	39.11	35.12	59.86	49.86	-20.75	-14.74
5	0.38047	0.16	37.03	33.03	37.19	33.19	58.27	48.27	-21.08	-15.08
6	0.50547	0.17	33.62	31.36	33.79	31.53	56.00	46.00	-22.21	-14.47

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.

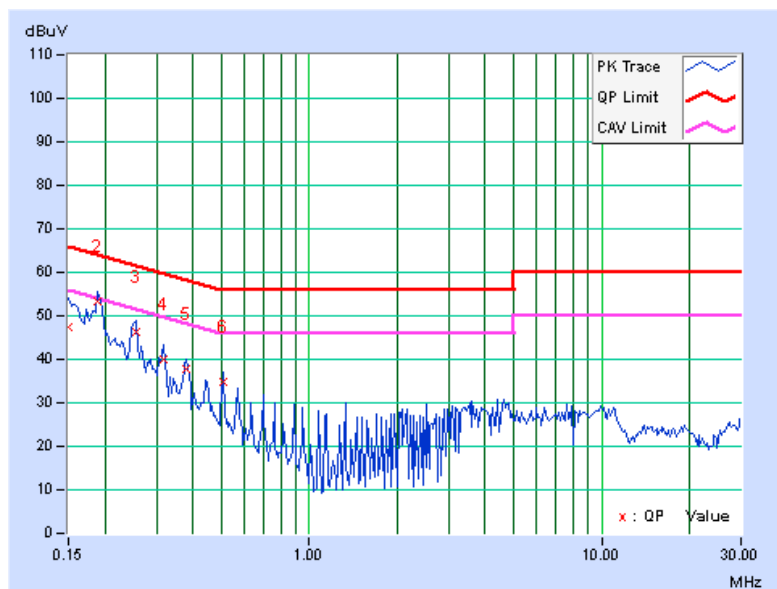


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor [dB]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.09	47.36	19.13	47.45	19.22	66.00	56.00	-18.55	-36.78
2	0.18906	0.10	53.28	47.75	53.38	47.85	64.08	54.08	-10.70	-6.23
3	0.25547	0.11	46.03	39.82	46.14	39.93	61.58	51.58	-15.43	-11.64
4	0.31797	0.13	39.97	35.44	40.10	35.57	59.76	49.76	-19.66	-14.19
5	0.38047	0.15	37.53	33.48	37.68	33.63	58.27	48.27	-20.59	-14.64
6	0.50547	0.15	34.51	31.95	34.66	32.10	56.00	46.00	-21.34	-13.90

REMARKS:

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



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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