

FCC TEST REPORT (WLAN -15.407)

REPORT NO.: RF110907E02N-1

MODEL NO.: AR5B22

FCC ID: PPD-AR5B22

IC: 4104A-AR5B22

RECEIVED: Oct. 03, 2012

TESTED: Oct. 17 to 26, 2012

ISSUED: Nov. 14, 2012

APPLICANT: Qualcomm Atheros, Inc.

ADDRESS: 1700 Technology Drive, San Jose, CA 95110

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

LAB ADDRESS : No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

TEST LOCATION (1): No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

TEST LOCATION (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

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A D T

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF110907E02N-1	Original release	Nov. 14, 2012



A D T

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: Oct. 17 to 26, 2012
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 : Midoli Peng, **DATE:** Nov. 14, 2012
(Midoli Peng, Specialist)

APPROVED BY : May Chen, **DATE:** Nov. 14, 2012
(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			
15.407(b)/1/ 2/3) (b)(6)	RSS-210 A9.2	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.5dB at 15780.0MHz & 5725.0MHz
15.407 (a)/1/2)	RSS-210 A9.2	Transmit Power	PASS	Meet the requirement of limit.

- NOTE:** 1. 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.
2. This report is prepared for FCC class II change and IC reassessment change. Only radiated emission and 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
Radiated emissions (30MHz-1GHz)	5.59 dB
Radiated emissions (1GHz -6GHz)	3.84 dB
Radiated emissions (6GHz -18GHz)	4.09 dB
Radiated emissions (18GHz -40GHz)	4.24 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT(WLAN/DTS)

PRODUCT	PCIE 802.11a/b/g/n 2.4GHz/5GHz + USB BT 4.0 card
MODEL NO.	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 DTS
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n (HT20, 800ns GI): up to 130Mbps 802.11n (HT20, 400ns GI): up to 144.4Mbps 802.11n (HT40, 800ns GI) : up to 270Mbps 802.11n (HT40, 400ns GI) : up to 300Mbps BT-LE(GFSK): 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 2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.745 ~ 5.825GHz BT-LE(GFSK): 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 for BT-LE(GFSK) For 15.247(5GHz) 5 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40)

MAXIMUM OUTPUT POWER	For 15.407 802.11a: 107.663mW 802.11n (HT20): 61.199mW 802.11n (HT40): 62.724mW For 15.247(2.4GHz) 802.11b: 170.950mW 802.11g: 504.510mW 802.11n (HT20): 475.816mW 802.11n (HT40): 343.787mW BT-LE(GFSK): 2.570mW For 15.247(5GHz) 802.11a: 205.147mW 802.11n (HT20): 203.940mW 802.11n (HT40): 191.635mW
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.: RF110907E02-1 R1 design is as the following information:
 - u Swap chain 0 and chain 1 antenna location & Shielding change.
- There are Bluetooth technology and WLAN technology used for the EUT. And the report number corresponds with EUT functions are listed as below:

Function	Report No.
WLAN / BT(LE MODE)	RF110907E02N (15.247) RF110907E02N-1(15.407)
Bluetooth	RF110907E02N-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)
- The HW version is CUS229.

5. Spurious Emission (radiated emission) of the simultaneous operation (WiFi & Bluetooth) have been evaluated and no non-compliance found. The detail combinations of transmitters / frequencies / modes as below table

Mode	Available Channel	Tested Channel	Modulation Technology
2.4 GHz (802.11g) + Bluetooth	1 to 11	6	OFDM
	0 to 78	78	FHSS
5 GHz (802.11a) + Bluetooth	149 to 165	165	OFDM
	0 to 78	78	FHSS

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

The antenna provided to the 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
	RE < 1G	RE ³ 1G	APCM	
-	√	√	√	-

Where **RE < 1G**: Radiated Emission below 1GHz **RE ³ 1G**: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

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).
- ☒ The investigation has been done for the worst-case (1x1 vs. 2x2) on harmonics and band-edge to find out the worst-case for the final tests.
- ☒ 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:

- ☒ 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
RE<1G	23deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
RE ³ 1G	25deg. C, 65%RH	120Vac, 60Hz	Evan Huang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Nelson Teng

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 v01r01

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.

3.5 DESCRIPTION OF SUPPORT UNITS

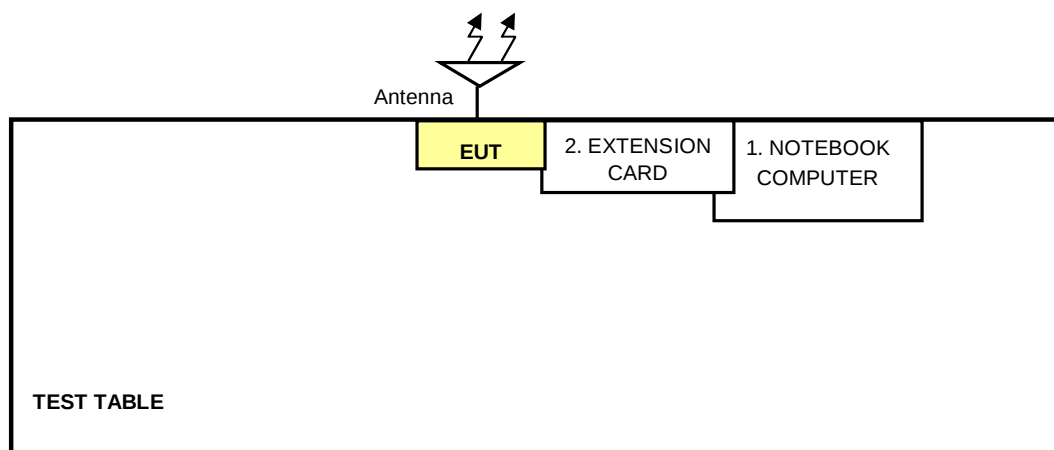
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP19L	CN-OHC416-70166-5 CA-0448	PIW6325005166 10
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: 1. Where B is the 26dB emission bandwidth in MHz for FCC 15.407.
2. Where B is the 99% bandwidth in MHz for RSS-210 Annex 9.

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 : Oct. 26, 2012

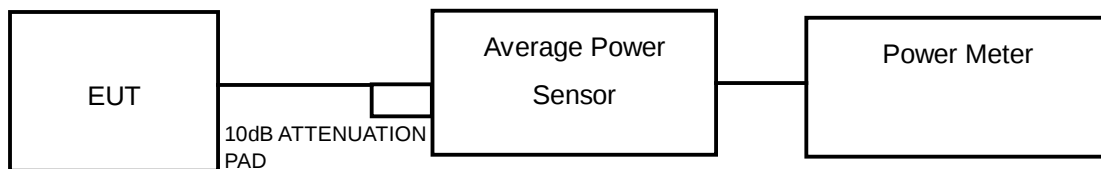
4.1.3 TEST PROCEDURE

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	28.840	14.6	17	PASS
40	5200	29.512	14.7	17	PASS
48	5240	32.359	15.1	17	PASS
52	5260	93.325	19.7	24	PASS
60	5300	100.000	20.0	24	PASS
64	5320	58.884	17.7	24	PASS
100	5500	28.184	14.5	24	PASS
116	5580	57.544	17.6	24	PASS
132	5660	47.863	16.8	24	PASS
140	5700	38.905	15.9	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	11.1	11.8	28.018	14.47	16.91	PASS
40	5200	11.3	12.3	30.472	14.84	16.91	PASS
48	5240	11.3	12.1	29.708	14.73	16.91	PASS
52	5260	16.1	17.3	94.441	19.75	23.91	PASS
60	5300	17.0	17.6	107.663	20.32	23.91	PASS
64	5320	14.8	14.8	60.400	17.81	23.91	PASS
100	5500	11.8	12.0	30.985	14.91	22.23	PASS
116	5580	14.2	14.8	56.503	17.52	22.23	PASS
132	5660	13.7	14.0	48.561	16.86	22.23	PASS
140	5700	10.5	11.2	24.403	13.87	22.23	PASS

For Operated in 5150MHz ~ 5250MHz bands:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.09

The effective legacy gain is 6.09dBi, therefore the limit needs to reduce.

For Operated in 5250MHz ~ 5350MHz bands:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.09

The effective legacy gain is 6.09dBi, therefore the limit needs to reduce.

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

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 7.77

The effective legacy gain is 7.77dBi, therefore the limit needs to reduce.

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	11.3	11.6	27.944	14.46	16.91	PASS
40	5200	10.6	11.8	26.618	14.25	16.91	PASS
48	5240	11.1	11.7	27.673	14.42	16.91	PASS
52	5260	14.4	15.2	60.655	17.83	23.91	PASS
60	5300	14.6	15.1	61.199	17.87	23.91	PASS
64	5320	14.8	14.8	60.400	17.81	23.91	PASS
100	5500	14.2	14.7	55.815	17.47	22.23	PASS
116	5580	14.5	15.0	59.807	17.77	22.23	PASS
132	5660	14.3	14.9	57.818	17.62	22.23	PASS
140	5700	11.8	12.2	31.732	15.01	22.23	PASS

For Operated in 5150MHz ~ 5250MHz bands:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.09

The effective legacy gain is 6.09dBi, therefore the limit needs to reduce.

For Operated in 5250MHz ~ 5350MHz bands:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.09

The effective legacy gain is 6.09dBi, therefore the limit needs to reduce.

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

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 7.77

The effective legacy gain is 7.77dBi, therefore the limit needs to reduce.

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	9.6	9.4	17.830	12.51	16.91	PASS
46	5230	13.8	13.2	44.881	16.52	16.91	PASS
54	5270	15.3	14.6	62.724	17.97	23.91	PASS
62	5310	9.7	9.5	18.246	12.61	23.91	PASS
102	5510	8.5	8.9	14.841	11.71	22.23	PASS
110	5550	14.2	15.6	62.611	17.97	22.23	PASS
134	5670	11.3	12.8	32.545	15.12	22.23	PASS

For Operated in 5150MHz ~ 5250MHz bands:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.09

The effective legacy gain is 6.09dBi, therefore the limit needs to reduce.

For Operated in 5250MHz ~ 5350MHz bands:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.09

The effective legacy gain is 6.09dBi, therefore the limit needs to reduce.

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

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 7.77

The effective legacy gain is 7.77dBi, therefore the limit needs to reduce.

4.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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.

4.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

NOTE:

- For frequencies 10MHz or greater above or below the band edge.
- All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
- The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

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

4.2.3 TEST INSTRUMENTS

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. 15, 2011	Nov. 14, 2012
Pre-Amplifier Agilent	8449B	3008A02578	June 26, 2012	June 25, 2013
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 15, 2011	Nov. 14, 2012
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Apr. 09, 2012	Apr. 08, 2013
Horn_Antenna AISL	AIH.8018	0000320091110	Nov. 14, 2011	Nov. 13, 2012
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 12, 2012	Oct. 11, 2013
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 26, 2011	Dec. 25, 2012
RF Cable	NA	CHGCAB_001	Oct. 05, 2012	Oct. 04, 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: Oct. 17, 2012

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. 15, 2011	Nov. 14, 2012
Pre-Amplifier Agilent	8449B	3008A02465	Feb. 27, 2012	Feb. 26, 2013
SPACEK LABS	SLKKa-48-6	9K16	Nov. 15, 2011	Nov. 14, 2012
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Apr. 06, 2012	Apr. 05, 2013
Horn_Antenna AISI	AIH.8018	0000220091110	Nov. 23, 2011	Nov. 22, 2012
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 12, 2012	Oct. 11, 2013
RF Cable	NA	RF104-205 RF104-207 RF104-202	Dec. 27, 2011	Dec. 26, 2012
RF Cable	NA	CHHCAB_001	Oct. 05, 2012	Oct. 04, 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: Oct. 24, 2012

4.2.4 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.

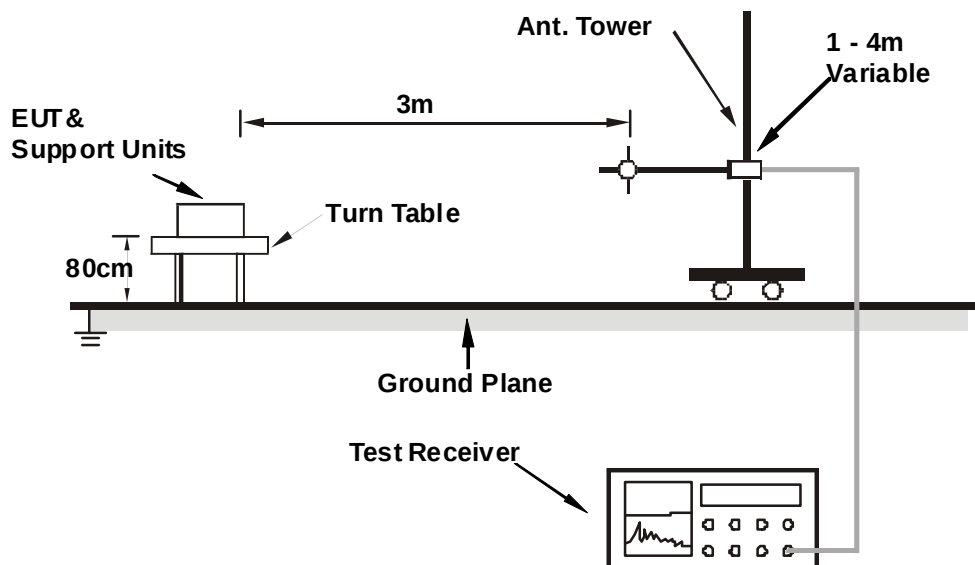
NOTE:

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.

4.2.5 DEVIATION FROM TEST STANDARD

No deviation

4.2.6 TEST SETUP



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

4.2.7 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.

4.2.8 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	148.00	38.1 QP	43.5	-5.4	1.25 H	71	23.31	14.79
2	248.00	37.4 QP	46.0	-8.6	1.14 H	111	24.17	13.26
3	343.00	39.6 QP	46.0	-6.4	1.13 H	200	23.21	16.40
4	493.00	39.9 QP	46.0	-6.1	1.47 H	100	19.68	20.21
5	693.00	32.8 QP	46.0	-13.2	1.45 H	210	8.91	23.87
6	794.00	41.2 QP	46.0	-4.8	1.45 H	75	15.41	25.80
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	167.10	31.0 QP	43.5	-12.5	2.00 V	287	17.07	13.89
2	365.12	36.2 QP	46.0	-9.8	1.50 V	245	19.24	16.97
3	449.57	34.2 QP	46.0	-11.8	1.00 V	262	15.04	19.13
4	499.45	40.1 QP	46.0	-5.9	1.00 V	45	19.74	20.38
5	766.10	33.2 QP	46.0	-12.8	1.50 V	119	7.98	25.23
6	799.80	41.9 QP	46.0	-4.1	1.50 V	319	15.96	25.92

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	63.0 PK	74.0	-11.0	1.07 H	126	20.70	42.30
2	5150.00	46.5 AV	54.0	-7.5	1.07 H	126	4.20	42.30
3	*5180.00	103.6 PK			1.07 H	126	61.20	42.40
4	*5180.00	93.5 AV			1.07 H	126	51.10	42.40
5	#10360.00	55.0 PK	68.3	-13.3	1.00 H	262	5.79	49.21
6	15540.00	65.1 PK	74.0	-8.9	1.44 H	98	10.00	55.10
7	15540.00	52.8 AV	54.0	-1.2	1.44 H	98	-2.30	55.10
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	57.7 PK	74.0	-16.3	1.08 V	259	15.40	42.30
2	5150.00	47.1 AV	54.0	-6.9	1.08 V	259	4.80	42.30
3	*5180.00	106.2 PK			1.09 V	264	63.80	42.40
4	*5180.00	94.6 AV			1.09 V	264	52.20	42.40
5	#10360.00	58.8 PK	68.3	-9.5	1.24 V	77	9.59	49.21
6	15540.00	64.6 PK	74.0	-9.4	1.39 V	121	9.50	55.10
7	15540.00	53.0 AV	54.0	-1.0	1.39 V	121	-2.10	55.10

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	104.5 PK			1.02 H	133	62.03	42.47
2	*5200.00	94.4 AV			1.02 H	133	51.93	42.47
3	#10400.00	55.4 PK	68.3	-12.9	1.04 H	266	6.57	48.83
4	15600.00	64.9 PK	74.0	-9.1	1.41 H	108	9.93	54.97
5	15600.00	52.4 AV	54.0	-1.6	1.41 H	108	-2.57	54.97
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	104.6 PK			1.10 V	259	62.13	42.47
2	*5200.00	94.6 AV			1.10 V	259	52.13	42.47
3	#10400.00	58.0 PK	68.3	-10.3	1.18 V	89	9.17	48.83
4	15600.00	64.2 PK	74.0	-9.8	1.37 V	107	9.23	54.97
5	15600.00	52.7 AV	54.0	-1.3	1.37 V	107	-2.27	54.97

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.
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	103.7 PK			1.00 H	149	61.19	42.51
2	*5240.00	94.1 AV			1.00 H	149	51.59	42.51
3	#10480.00	55.4 PK	68.3	-12.9	1.00 H	253	6.01	49.39
4	15720.00	65.0 PK	74.0	-9.0	1.45 H	93	10.30	54.70
5	15720.00	52.3 AV	54.0	-1.7	1.45 H	93	-2.40	54.70
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	104.9 PK			1.10 V	258	62.39	42.51
2	*5240.00	94.8 AV			1.10 V	258	52.29	42.51
3	#10480.00	58.3 PK	68.3	-10.0	1.21 V	76	8.91	49.39
4	15720.00	63.8 PK	74.0	-10.2	1.32 V	103	9.10	54.70
5	15720.00	52.5 AV	54.0	-1.5	1.32 V	103	-2.20	54.70

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 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	108.4 PK			1.00 H	133	65.86	42.54
2	*5260.00	98.4 AV			1.00 H	133	55.86	42.54
3	#10520.00	55.3 PK	68.3	-13.0	1.00 H	271	5.81	49.49
4	15780.00	64.5 PK	74.0	-9.5	1.47 H	108	9.61	54.89
5	15780.00	52.3 AV	54.0	-1.7	1.47 H	108	-2.59	54.89
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	108.2 PK			1.10 V	258	65.66	42.54
2	*5260.00	98.4 AV			1.10 V	258	55.86	42.54
3	#10520.00	61.2 PK	68.3	-7.1	1.24 V	77	11.71	49.49
4	15780.00	65.3 PK	74.0	-8.7	1.35 V	107	10.41	54.89
5	15780.00	53.5 AV	54.0	-0.5	1.35 V	107	-1.39	54.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
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	107.6 PK			1.00 H	129	65.02	42.58
2	*5300.00	97.2 AV			1.00 H	129	54.62	42.58
3	10600.00	54.8 PK	74.0	-19.2	1.00 H	262	5.45	49.35
4	10600.00	43.7 AV	54.0	-10.3	1.00 H	262	-5.65	49.35
5	15900.00	63.9 PK	74.0	-10.1	1.52 H	107	8.81	55.09
6	15900.00	52.0 AV	54.0	-2.0	1.52 H	107	-3.09	55.09
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	108.3 PK			1.09 V	243	65.72	42.58
2	*5300.00	98.0 AV			1.09 V	243	55.42	42.58
3	10600.00	57.6 PK	74.0	-16.4	1.60 V	49	8.25	49.35
4	10600.00	44.8 AV	54.0	-9.2	1.60 V	49	-4.55	49.35
5	15900.00	65.2 PK	74.0	-8.8	1.24 V	112	10.11	55.09
6	15900.00	52.9 AV	54.0	-1.1	1.24 V	112	-2.19	55.09

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	107.6 PK			1.00 H	131	65.01	42.59
2	*5320.00	97.2 AV			1.00 H	131	54.61	42.59
3	5350.00	63.1 PK	74.0	-10.9	1.11 H	116	20.51	42.59
4	5350.00	46.5 AV	54.0	-7.5	1.11 H	116	3.91	42.59
5	10640.00	54.7 PK	74.0	-19.3	1.00 H	251	5.24	49.46
6	10640.00	43.4 AV	54.0	-10.6	1.00 H	251	-6.06	49.46
7	15960.00	64.6 PK	74.0	-9.4	1.57 H	101	9.77	54.83
8	15960.00	52.4 AV	54.0	-1.6	1.57 H	101	-2.43	54.83
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	107.7 PK			1.07 V	257	65.11	42.59
2	*5320.00	97.4 AV			1.07 V	257	54.81	42.59
3	5350.00	70.9 PK	74.0	-3.1	1.08 V	243	28.31	42.59
4	5350.00	53.1 AV	54.0	-0.9	1.08 V	243	10.51	42.59
5	10640.00	58.0 PK	74.0	-16.0	1.62 V	47	8.54	49.46
6	10640.00	45.2 AV	54.0	-8.8	1.62 V	47	-4.26	49.46
7	15960.00	65.6 PK	74.0	-8.4	1.22 V	102	10.77	54.83
8	15960.00	53.2 AV	54.0	-0.8	1.22 V	102	-1.63	54.83

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	62.5 PK	74.0	-11.5	1.12 H	101	19.68	42.82
2	5460.00	46.1 AV	54.0	-7.9	1.12 H	101	3.28	42.82
3	#5470.00	57.2 PK	68.3	-11.1	1.39 H	106	14.35	42.85
4	*5500.00	100.1 PK			1.39 H	106	57.14	42.96
5	*5500.00	90.0 AV			1.39 H	106	47.04	42.96
6	11000.00	54.8 PK	74.0	-19.2	1.00 H	263	4.79	50.01
7	11000.00	43.4 AV	54.0	-10.6	1.00 H	263	-6.61	50.01
8	#16500.00	63.0 PK	68.3	-5.3	1.50 H	100	6.63	56.37
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	1.35 V	360	15.88	42.82
2	5460.00	45.9 AV	54.0	-8.1	1.35 V	360	3.08	42.82
3	#5470.00	59.7 PK	68.3	-8.6	1.32 V	360	16.85	42.85
4	*5500.00	103.2 PK			1.34 V	360	60.24	42.96
5	*5500.00	92.4 AV			1.34 V	360	49.44	42.96
6	11000.00	58.6 PK	74.0	-15.4	1.66 V	42	8.59	50.01
7	11000.00	45.5 AV	54.0	-8.5	1.66 V	42	-4.51	50.01
8	#16500.00	64.2 PK	68.3	-4.1	1.35 V	107	7.83	56.37

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	107.1 PK			1.00 H	132	63.96	43.14
2	*5580.00	97.2 AV			1.00 H	132	54.06	43.14
3	11160.00	54.6 PK	74.0	-19.4	1.01 H	255	4.89	49.71
4	11160.00	43.4 AV	54.0	-10.6	1.01 H	255	-6.31	49.71
5	#16740.00	62.6 PK	68.3	-5.7	1.48 H	90	6.18	56.42
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	106.2 PK			1.28 V	217	63.06	43.14
2	*5580.00	95.9 AV			1.28 V	217	52.76	43.14
3	11160.00	59.5 PK	74.0	-14.5	1.65 V	30	9.79	49.71
4	11160.00	47.5 AV	54.0	-6.5	1.65 V	30	-2.21	49.71
5	#16740.00	65.1 PK	68.3	-3.2	1.46 V	359	8.68	56.42

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	106.5 PK			1.00 H	140	63.26	43.24
2	*5660.00	96.7 AV			1.00 H	140	53.46	43.24
3	11320.00	54.4 PK	74.0	-19.6	1.00 H	263	4.30	50.10
4	11320.00	43.2 AV	54.0	-10.8	1.00 H	263	-6.90	50.10
5	#16980.00	63.0 PK	68.3	-5.3	1.51 H	99	5.82	57.18
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	105.3 PK			1.37 V	216	62.06	43.24
2	*5660.00	95.2 AV			1.37 V	216	51.96	43.24
3	11320.00	59.3 PK	74.0	-14.7	1.71 V	34	9.20	50.10
4	11320.00	47.1 AV	54.0	-6.9	1.71 V	34	-3.00	50.10
5	#16980.00	65.2 PK	68.3	-3.1	1.46 V	360	8.02	57.18

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	102.5 PK			1.00 H	132	59.23	43.27
2	*5700.00	93.0 AV			1.00 H	132	49.73	43.27
3	#5725.00	67.8 PK	68.3	-0.5	1.00 H	132	24.50	43.30
4	11400.00	54.2 PK	74.0	-19.8	1.00 H	258	4.28	49.92
5	11400.00	43.3 AV	54.0	-10.7	1.00 H	258	-6.62	49.92
6	#17100.00	62.7 PK	68.3	-5.6	1.51 H	91	5.62	57.08
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	100.2 PK			1.34 V	217	56.93	43.27
2	*5700.00	90.2 AV			1.34 V	217	46.93	43.27
3	#5725.00	67.8 PK	68.3	-0.5	1.37 V	101	24.50	43.30
4	11400.00	59.0 PK	74.0	-15.0	1.75 V	33	9.08	49.92
5	11400.00	46.8 AV	54.0	-7.2	1.75 V	33	-3.12	49.92
6	#17100.00	64.9 PK	68.3	-3.4	1.50 V	359	7.82	57.08

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	57.7 PK	74.0	-16.3	1.08 H	100	15.40	42.30
2	5150.00	46.3 AV	54.0	-7.7	1.08 H	100	4.00	42.30
3	*5180.00	104.3 PK			1.04 H	63	61.90	42.40
4	*5180.00	95.1 AV			1.04 H	63	52.70	42.40
5	#10360.00	55.9 PK	68.3	-12.4	1.51 H	187	6.69	49.21
6	15540.00	62.7 PK	74.0	-11.3	1.10 H	63	7.60	55.10
7	15540.00	49.7 AV	54.0	-4.3	1.10 H	63	-5.40	55.10
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	60.5 PK	74.0	-13.5	1.00 V	257	18.20	42.30
2	5150.00	47.2 AV	54.0	-6.8	1.00 V	257	4.90	42.30
3	*5180.00	102.6 PK			1.02 V	258	60.20	42.40
4	*5180.00	93.5 AV			1.02 V	258	51.10	42.40
5	#10360.00	57.4 PK	68.3	-10.9	1.27 V	100	8.19	49.21
6	15540.00	63.7 PK	74.0	-10.3	1.35 V	8	8.60	55.10
7	15540.00	51.1 AV	54.0	-2.9	1.35 V	8	-4.00	55.10

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 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	103.9 PK			1.01 H	85	61.43	42.47
2	*5200.00	94.9 AV			1.01 H	85	52.43	42.47
3	#10400.00	62.3 PK	68.3	-6.0	1.51 H	201	13.47	48.83
4	15600.00	57.4 PK	74.0	-16.6	1.06 H	98	2.43	54.97
5	15600.00	46.2 AV	54.0	-7.8	1.06 H	98	-8.77	54.97
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	102.7 PK			1.04 V	289	60.23	42.47
2	*5200.00	93.6 AV			1.04 V	289	51.13	42.47
3	#10400.00	57.0 PK	68.3	-11.3	1.23 V	104	8.17	48.83
4	15600.00	62.6 PK	74.0	-11.4	1.13 V	62	7.63	54.97
5	15600.00	49.5 AV	54.0	-4.5	1.13 V	62	-5.47	54.97

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.
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	103.3 PK			1.10 H	76	60.79	42.51
2	*5240.00	94.6 AV			1.10 H	76	52.09	42.51
3	#10480.00	61.9 PK	68.3	-6.4	1.56 H	211	12.51	49.39
4	15720.00	56.9 PK	74.0	-17.1	1.05 H	98	2.20	54.70
5	15720.00	45.7 AV	54.0	-8.3	1.05 H	98	-9.00	54.70
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	102.9 PK			1.06 V	281	60.39	42.51
2	*5240.00	93.7 AV			1.06 V	281	51.19	42.51
3	#10480.00	57.4 PK	68.3	-10.9	1.25 V	90	8.01	49.39
4	15720.00	62.4 PK	74.0	-11.6	1.16 V	73	7.70	54.70
5	15720.00	49.5 AV	54.0	-4.5	1.16 V	73	-5.20	54.70

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 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	109.6 PK			1.06 H	74	67.06	42.54
2	*5260.00	100.6 AV			1.06 H	74	58.06	42.54
3	#10520.00	55.9 PK	68.3	-12.4	1.49 H	177	6.41	49.49
4	15780.00	63.0 PK	74.0	-11.0	1.12 H	56	8.11	54.89
5	15780.00	50.1 AV	54.0	-3.9	1.12 H	56	-4.79	54.89
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	110.6 PK			1.12 V	262	68.06	42.54
2	*5260.00	101.6 AV			1.12 V	262	59.06	42.54
3	#10520.00	57.4 PK	68.3	-10.9	1.30 V	87	7.91	49.49
4	15780.00	63.2 PK	74.0	-10.8	1.39 V	7	8.31	54.89
5	15780.00	50.7 AV	54.0	-3.3	1.39 V	7	-4.19	54.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
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	109.9 PK			1.05 H	73	67.32	42.58
2	*5300.00	100.6 AV			1.05 H	73	58.02	42.58
3	10600.00	56.3 PK	74.0	-17.7	1.54 H	167	6.95	49.35
4	10600.00	43.7 AV	54.0	-10.3	1.54 H	167	-5.65	49.35
5	15900.00	63.5 PK	74.0	-10.5	1.11 H	65	8.41	55.09
6	15900.00	50.5 AV	54.0	-3.5	1.11 H	65	-4.59	55.09
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	111.5 PK			1.00 V	261	68.92	42.58
2	*5300.00	102.1 AV			1.00 V	261	59.52	42.58
3	10600.00	57.8 PK	74.0	-16.2	1.35 V	88	8.45	49.35
4	10600.00	45.8 AV	54.0	-8.2	1.35 V	88	-3.55	49.35
5	15900.00	63.6 PK	74.0	-10.4	1.37 V	17	8.51	55.09
6	15900.00	50.9 AV	54.0	-3.1	1.37 V	17	-4.19	55.09

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	106.7 PK			1.07 H	73	64.11	42.59
2	*5320.00	96.6 AV			1.07 H	73	54.01	42.59
3	5350.00	58.2 PK	74.0	-15.8	1.08 H	106	15.61	42.59
4	5350.00	46.7 AV	54.0	-7.3	1.08 H	106	4.11	42.59
5	10640.00	56.0 PK	74.0	-18.0	1.59 H	164	6.54	49.46
6	10640.00	43.2 AV	54.0	-10.8	1.59 H	164	-6.26	49.46
7	15960.00	63.4 PK	74.0	-10.6	1.12 H	62	8.57	54.83
8	15960.00	50.6 AV	54.0	-3.4	1.12 H	62	-4.23	54.83
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	108.2 PK			1.00 V	273	65.61	42.59
2	*5320.00	99.1 AV			1.00 V	273	56.51	42.59
3	5350.00	64.1 PK	74.0	-9.9	1.00 V	273	21.51	42.59
4	5350.00	48.7 AV	54.0	-5.3	1.00 V	273	6.11	42.59
5	10640.00	57.4 PK	74.0	-16.6	1.36 V	86	7.94	49.46
6	10640.00	45.4 AV	54.0	-8.6	1.36 V	86	-4.06	49.46
7	15960.00	64.0 PK	74.0	-10.0	1.36 V	15	9.17	54.83
8	15960.00	51.3 AV	54.0	-2.7	1.36 V	15	-3.53	54.83

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	58.1 PK	74.0	-15.9	1.05 H	162	15.28	42.82
2	5460.00	47.2 AV	54.0	-6.8	1.05 H	162	4.38	42.82
3	#5470.00	58.8 PK	68.3	-9.5	1.09 H	136	15.95	42.85
4	*5500.00	104.1 PK			1.11 H	138	61.14	42.96
5	*5500.00	94.5 AV			1.11 H	138	51.54	42.96
6	11000.00	55.7 PK	74.0	-18.3	1.55 H	174	5.69	50.01
7	11000.00	43.0 AV	54.0	-11.0	1.55 H	174	-7.01	50.01
8	#16500.00	63.1 PK	68.3	-5.2	1.15 H	65	6.73	56.37
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	59.2 PK	74.0	-14.8	1.02 V	224	16.38	42.82
2	5460.00	48.1 AV	54.0	-5.9	1.02 V	224	5.28	42.82
3	#5470.00	59.9 PK	68.3	-8.4	1.00 V	235	17.05	42.85
4	*5500.00	107.5 PK			1.01 V	248	64.54	42.96
5	*5500.00	97.7 AV			1.01 V	248	54.74	42.96
6	11000.00	57.4 PK	74.0	-16.6	1.35 V	71	7.39	50.01
7	11000.00	45.6 AV	54.0	-8.4	1.35 V	71	-4.41	50.01
8	#16500.00	63.8 PK	68.3	-4.5	1.41 V	10	7.43	56.37

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 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	106.6 PK			1.11 H	139	63.46	43.14
2	*5580.00	97.2 AV			1.11 H	139	54.06	43.14
3	11160.00	56.4 PK	74.0	-17.6	1.52 H	190	6.69	49.71
4	11160.00	43.4 AV	54.0	-10.6	1.52 H	190	-6.31	49.71
5	#16740.00	63.5 PK	68.3	-4.8	1.13 H	54	7.08	56.42
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	109.7 PK			1.01 V	254	66.60	43.14
2	*5580.00	99.8 AV			1.01 V	254	56.66	43.14
3	11160.00	57.2 PK	74.0	-16.8	1.30 V	67	7.49	49.71
4	11160.00	45.5 AV	54.0	-8.5	1.30 V	67	-4.21	49.71
5	#16740.00	64.3 PK	68.3	-4.0	1.40 V	25	7.88	56.42

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	105.9 PK			1.08 H	140	62.66	43.24
2	*5660.00	96.5 AV			1.08 H	140	53.26	43.24
3	11320.00	56.4 PK	74.0	-17.6	1.53 H	200	6.30	50.10
4	11320.00	43.2 AV	54.0	-10.8	1.53 H	200	-6.90	50.10
5	#16980.00	63.7 PK	68.3	-4.6	1.15 H	54	6.52	57.18
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	107.5 PK			1.01 V	256	64.26	43.24
2	*5660.00	97.5 AV			1.01 V	256	54.26	43.24
3	11320.00	57.3 PK	74.0	-16.7	1.36 V	58	7.20	50.10
4	11320.00	45.5 AV	54.0	-8.5	1.36 V	58	-4.60	50.10
5	#16980.00	64.4 PK	68.3	-3.9	1.46 V	13	7.22	57.18

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	103.2 PK			1.11 H	135	59.93	43.27
2	*5700.00	93.7 AV			1.11 H	135	50.43	43.27
3	#5725.00	59.2 PK	68.3	-9.1	1.05 H	125	15.90	43.30
4	11400.00	56.6 PK	74.0	-17.4	1.50 H	201	6.68	49.92
5	11400.00	43.2 AV	54.0	-10.8	1.50 H	201	-6.72	49.92
6	#17100.00	63.9 PK	68.3	-4.4	1.13 H	50	6.82	57.08
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	103.6 PK			1.01 V	256	60.33	43.27
2	*5700.00	93.3 AV			1.01 V	256	50.03	43.27
3	#5725.00	58.9 PK	68.3	-9.4	1.05 V	132	15.60	43.30
4	11400.00	57.6 PK	74.0	-16.4	1.38 V	55	7.68	49.92
5	11400.00	45.6 AV	54.0	-8.4	1.38 V	55	-4.32	49.92
6	#17100.00	64.2 PK	68.3	-4.1	1.48 V	9	7.12	57.08

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	57.9 PK	74.0	-16.1	1.06 H	100	15.60	42.30
2	5150.00	46.5 AV	54.0	-7.5	1.06 H	100	4.20	42.30
3	*5180.00	104.1 PK			1.06 H	74	61.70	42.40
4	*5180.00	94.9 AV			1.06 H	74	52.50	42.40
5	#10360.00	56.1 PK	68.3	-12.2	1.47 H	196	6.89	49.21
6	15540.00	63.8 PK	74.0	-10.2	1.08 H	34	8.70	55.10
7	15540.00	43.5 AV	54.0	-10.5	1.08 H	34	-11.60	55.10
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	60.7 PK	74.0	-13.3	1.00 V	263	18.40	42.30
2	5150.00	47.3 AV	54.0	-6.7	1.00 V	263	5.00	42.30
3	*5180.00	102.4 PK			1.00 V	263	60.00	42.40
4	*5180.00	93.1 AV			1.00 V	263	50.70	42.40
5	#10360.00	57.9 PK	68.3	-10.4	1.39 V	57	8.69	49.21
6	15540.00	64.6 PK	74.0	-9.4	1.49 V	18	9.50	55.10
7	15540.00	45.7 AV	54.0	-8.3	1.49 V	18	-9.40	55.10

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	103.6 PK			1.04 H	76	61.13	42.47
2	*5200.00	94.5 AV			1.04 H	76	52.03	42.47
3	#10400.00	55.6 PK	68.3	-12.7	1.42 H	192	6.77	48.83
4	15600.00	63.2 PK	74.0	-10.8	1.04 H	21	8.23	54.97
5	15600.00	43.1 AV	54.0	-10.9	1.04 H	21	-11.87	54.97
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	102.8 PK			1.00 V	276	60.33	42.47
2	*5200.00	93.6 AV			1.00 V	276	51.13	42.47
3	#10400.00	57.9 PK	68.3	-10.4	1.35 V	52	9.07	48.83
4	15600.00	64.8 PK	74.0	-9.2	1.44 V	26	9.83	54.97
5	15600.00	45.9 AV	54.0	-8.1	1.44 V	26	-9.07	54.97

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.
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	103.3 PK			1.11 H	64	60.79	42.51
2	*5240.00	94.4 AV			1.11 H	64	51.89	42.51
3	#10480.00	55.5 PK	68.3	-12.8	1.47 H	190	6.11	49.39
4	15720.00	64.0 PK	74.0	-10.0	1.00 H	9	9.30	54.70
5	15720.00	43.6 AV	54.0	-10.4	1.00 H	9	-11.10	54.70
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	102.7 PK			1.01 V	269	60.19	42.51
2	*5240.00	93.4 AV			1.01 V	269	50.89	42.51
3	#10480.00	57.6 PK	68.3	-10.7	1.32 V	59	8.21	49.39
4	15720.00	64.7 PK	74.0	-9.3	1.44 V	15	10.00	54.70
5	15720.00	45.7 AV	54.0	-8.3	1.44 V	15	-9.00	54.70

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 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	104.1 PK			1.05 H	337	61.56	42.54
2	*5260.00	94.2 AV			1.05 H	337	51.66	42.54
3	#10520.00	55.4 PK	68.3	-12.9	1.43 H	193	5.91	49.49
4	15780.00	63.8 PK	74.0	-10.2	1.03 H	0	8.91	54.89
5	15780.00	43.6 AV	54.0	-10.4	1.03 H	0	-11.29	54.89
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	108.8 PK			1.03 V	273	66.26	42.54
2	*5260.00	98.8 AV			1.03 V	273	56.26	42.54
3	#10520.00	58.2 PK	68.3	-10.1	1.29 V	44	8.71	49.49
4	15780.00	65.1 PK	74.0	-8.9	1.49 V	29	10.21	54.89
5	15780.00	46.0 AV	54.0	-8.0	1.49 V	29	-8.89	54.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
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	104.7 PK			1.04 H	331	62.12	42.58
2	*5300.00	94.6 AV			1.04 H	331	52.02	42.58
3	10600.00	56.1 PK	74.0	-17.9	1.53 H	160	6.75	49.35
4	10600.00	43.6 AV	54.0	-10.4	1.53 H	160	-5.75	49.35
5	15900.00	63.4 PK	74.0	-10.6	1.08 H	79	8.31	55.09
6	15900.00	50.4 AV	54.0	-3.6	1.08 H	79	-4.69	55.09
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	108.5 PK			1.06 V	274	65.92	42.58
2	*5300.00	98.7 AV			1.06 V	274	56.12	42.58
3	10600.00	57.6 PK	74.0	-16.4	1.40 V	76	8.25	49.35
4	10600.00	45.3 AV	54.0	-8.7	1.40 V	76	-4.05	49.35
5	15900.00	63.7 PK	74.0	-10.3	1.33 V	30	8.61	55.09
6	15900.00	51.1 AV	54.0	-2.9	1.33 V	30	-3.99	55.09

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	108.4 PK			1.02 H	75	65.81	42.59
2	*5320.00	98.7 AV			1.02 H	75	56.11	42.59
3	5350.00	65.3 PK	74.0	-8.7	1.03 H	80	22.71	42.59
4	5350.00	49.3 AV	54.0	-4.7	1.03 H	80	6.71	42.59
5	10640.00	56.5 PK	74.0	-17.5	1.58 H	174	7.04	49.46
6	10640.00	43.9 AV	54.0	-10.1	1.58 H	174	-5.56	49.46
7	15960.00	63.1 PK	74.0	-10.9	1.08 H	82	8.27	54.83
8	15960.00	50.3 AV	54.0	-3.7	1.08 H	82	-4.53	54.83
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	108.1 PK			1.00 V	272	65.51	42.59
2	*5320.00	98.6 AV			1.00 V	272	56.01	42.59
3	5350.00	65.5 PK	74.0	-8.5	1.00 V	272	22.91	42.59
4	5350.00	49.5 AV	54.0	-4.5	1.00 V	272	6.91	42.59
5	10640.00	57.7 PK	74.0	-16.3	1.35 V	90	8.24	49.46
6	10640.00	45.5 AV	54.0	-8.5	1.35 V	90	-3.96	49.46
7	15960.00	64.1 PK	74.0	-9.9	1.33 V	18	9.27	54.83
8	15960.00	51.2 AV	54.0	-2.8	1.33 V	18	-3.63	54.83

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	58.3 PK	74.0	-15.7	1.29 H	142	15.48	42.82
2	5460.00	47.0 AV	54.0	-7.0	1.29 H	142	4.18	42.82
3	#5470.00	60.2 PK	68.3	-8.1	1.29 H	150	17.35	42.85
4	*5500.00	104.8 PK			1.05 H	360	61.84	42.96
5	*5500.00	94.7 AV			1.05 H	360	51.74	42.96
6	11000.00	56.4 PK	74.0	-17.6	1.56 H	176	6.39	50.01
7	11000.00	43.8 AV	54.0	-10.2	1.56 H	176	-6.21	50.01
8	#16500.00	62.8 PK	68.3	-5.5	1.06 H	84	6.43	56.37
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	1.00 V	254	15.88	42.82
2	5460.00	47.8 AV	54.0	-6.2	1.00 V	254	4.98	42.82
3	#5470.00	65.4 PK	68.3	-2.9	1.00 V	110	22.55	42.85
4	*5500.00	108.9 PK			1.01 V	264	65.94	42.96
5	*5500.00	98.9 AV			1.01 V	264	55.94	42.96
6	11000.00	57.7 PK	74.0	-16.3	1.36 V	92	7.69	50.01
7	11000.00	45.3 AV	54.0	-8.7	1.36 V	92	-4.71	50.01
8	#16500.00	64.3 PK	68.3	-4.0	1.34 V	9	7.93	56.37

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 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	104.4 PK			1.01 H	341	61.26	43.14
2	*5580.00	94.3 AV			1.01 H	341	51.16	43.14
3	11160.00	56.9 PK	74.0	-17.1	1.53 H	179	7.19	49.71
4	11160.00	44.2 AV	54.0	-9.8	1.53 H	179	-5.51	49.71
5	#16740.00	62.9 PK	68.3	-5.4	1.07 H	74	6.48	56.42
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	109.1 PK			1.02 V	275	65.96	43.14
2	*5580.00	99.0 AV			1.02 V	275	55.86	43.14
3	11160.00	57.5 PK	74.0	-16.5	1.31 V	84	7.79	49.71
4	11160.00	45.2 AV	54.0	-8.8	1.31 V	84	-4.51	49.71
5	#16740.00	63.8 PK	68.3	-4.5	1.36 V	22	7.38	56.42

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	104.9 PK			1.02 H	342	61.66	43.24
2	*5660.00	94.5 AV			1.02 H	342	51.26	43.24
3	11320.00	56.8 PK	74.0	-17.2	1.49 H	166	6.70	50.10
4	11320.00	44.1 AV	54.0	-9.9	1.49 H	166	-6.00	50.10
5	#16980.00	63.0 PK	68.3	-5.3	1.13 H	71	5.82	57.18
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	109.8 PK			1.00 V	261	66.56	43.24
2	*5660.00	99.4 AV			1.00 V	261	56.16	43.24
3	11320.00	57.5 PK	74.0	-16.5	1.28 V	74	7.40	50.10
4	11320.00	45.2 AV	54.0	-8.8	1.28 V	74	-4.90	50.10
5	#16980.00	63.5 PK	68.3	-4.8	1.32 V	24	6.32	57.18

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	106.4 PK			1.04 H	141	63.13	43.27
2	*5700.00	96.2 AV			1.04 H	141	52.93	43.27
3	#5725.00	67.8 PK	68.3	-0.5	1.04 H	139	24.50	43.30
4	11400.00	56.6 PK	74.0	-17.4	1.45 H	170	6.68	49.92
5	11400.00	43.7 AV	54.0	-10.3	1.45 H	170	-6.22	49.92
6	#17100.00	62.5 PK	68.3	-5.8	1.07 H	66	5.42	57.08
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	105.5 PK			1.29 V	141	62.23	43.27
2	*5700.00	96.0 AV			1.29 V	141	52.73	43.27
3	#5725.00	66.8 PK	68.3	-1.5	1.28 V	141	23.50	43.30
4	11400.00	57.1 PK	74.0	-16.9	1.32 V	58	7.18	49.92
5	11400.00	44.9 AV	54.0	-9.1	1.32 V	58	-5.02	49.92
6	#17100.00	63.0 PK	68.3	-5.3	1.33 V	39	5.92	57.08

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	66.6 PK	74.0	-7.4	1.09 H	70	24.30	42.30
2	5150.00	52.2 AV	54.0	-1.8	1.09 H	70	9.90	42.30
3	*5190.00	100.0 PK			1.09 H	75	57.56	42.44
4	*5190.00	89.4 AV			1.09 H	75	46.96	42.44
5	#10380.00	56.3 PK	68.3	-12.0	1.50 H	173	7.28	49.02
6	15570.00	62.6 PK	74.0	-11.4	1.06 H	71	7.56	55.04
7	15570.00	44.1 AV	54.0	-9.9	1.06 H	71	-10.94	55.04
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	68.5 PK	74.0	-5.5	1.01 V	270	26.20	42.30
2	5150.00	52.8 AV	54.0	-1.2	1.01 V	270	10.50	42.30
3	*5190.00	100.3 PK			1.00 V	260	57.86	42.44
4	*5190.00	90.2 AV			1.00 V	260	47.76	42.44
5	#10380.00	56.8 PK	68.3	-11.5	1.32 V	51	7.78	49.02
6	15570.00	63.0 PK	74.0	-11.0	1.28 V	30	7.96	55.04
7	15570.00	43.9 AV	54.0	-10.1	1.28 V	30	-11.14	55.04

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	103.9 PK			1.06 H	75	61.40	42.50
2	*5230.00	94.3 AV			1.06 H	75	51.80	42.50
3	#10460.00	55.9 PK	68.3	-12.4	1.53 H	179	6.65	49.25
4	15690.00	62.2 PK	74.0	-11.8	1.08 H	68	7.53	54.67
5	15690.00	43.9 AV	54.0	-10.1	1.08 H	68	-10.77	54.67
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	*5230.00	105.2 PK			1.00 V	242	62.70	42.50
2	*5230.00	95.2 AV			1.00 V	242	52.70	42.50
3	#10460.00	56.4 PK	68.3	-11.9	1.34 V	35	7.15	49.25
4	15690.00	62.4 PK	74.0	-11.6	1.24 V	21	7.73	54.67
5	15690.00	43.5 AV	54.0	-10.5	1.24 V	21	-11.17	54.67

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 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	104.9 PK			1.05 H	75	62.35	42.55
2	*5270.00	96.1 AV			1.05 H	75	53.55	42.55
3	#10540.00	55.9 PK	68.3	-12.4	1.56 H	194	6.44	49.46
4	15810.00	62.2 PK	74.0	-11.8	1.13 H	58	7.24	54.96
5	15810.00	44.1 AV	54.0	-9.9	1.13 H	58	-10.86	54.96
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	106.2 PK			1.01 V	223	63.65	42.55
2	*5270.00	97.3 AV			1.01 V	223	54.75	42.55
3	#10540.00	56.8 PK	68.3	-11.5	1.32 V	51	7.34	49.46
4	15810.00	62.8 PK	74.0	-11.2	1.28 V	7	7.84	54.96
5	15810.00	43.9 AV	54.0	-10.1	1.28 V	7	-11.06	54.96

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			1.03 H	75	56.92	42.58
2	*5310.00	90.5 AV			1.03 H	75	47.92	42.58
3	5350.00	63.8 PK	74.0	-10.2	1.03 H	100	21.21	42.59
4	5350.00	51.6 AV	54.0	-2.4	1.03 H	100	9.01	42.59
5	10620.00	55.9 PK	74.0	-18.1	1.59 H	181	6.50	49.40
6	10620.00	43.5 AV	54.0	-10.5	1.59 H	181	-5.90	49.40
7	15930.00	63.6 PK	74.0	-10.4	1.12 H	73	8.64	54.96
8	15930.00	50.7 AV	54.0	-3.3	1.12 H	73	-4.26	54.96
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	100.3 PK			1.00 V	273	57.72	42.58
2	*5310.00	90.5 AV			1.00 V	273	47.92	42.58
3	5350.00	65.7 PK	74.0	-8.3	1.00 V	273	23.11	42.59
4	5350.00	52.7 AV	54.0	-1.3	1.00 V	273	10.11	42.59
5	10620.00	58.0 PK	74.0	-16.0	1.39 V	105	8.60	49.40
6	10620.00	45.8 AV	54.0	-8.2	1.39 V	105	-3.60	49.40
7	15930.00	64.4 PK	74.0	-9.6	1.38 V	28	9.44	54.96
8	15930.00	51.6 AV	54.0	-2.4	1.38 V	28	-3.36	54.96

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	58.2 PK	74.0	-15.8	1.12 H	150	15.38	42.82
2	5460.00	46.2 AV	54.0	-7.8	1.12 H	150	3.38	42.82
3	#5470.00	63.9 PK	68.3	-4.4	1.00 H	129	21.05	42.85
4	*5510.00	98.4 PK			1.10 H	147	55.42	42.98
5	*5510.00	88.2 AV			1.10 H	147	45.22	42.98
6	11020.00	56.3 PK	74.0	-17.7	1.61 H	172	6.35	49.95
7	11020.00	43.9 AV	54.0	-10.1	1.61 H	172	-6.05	49.95
8	#16530.00	64.3 PK	68.3	-4.0	1.06 H	65	7.67	56.63
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	59.2 PK	74.0	-14.8	1.20 V	315	16.38	42.82
2	5460.00	48.2 AV	54.0	-5.8	1.20 V	315	5.38	42.82
3	#5470.00	67.2 PK	68.3	-1.1	1.13 V	334	24.35	42.85
4	*5510.00	98.4 PK			1.23 V	335	55.42	42.98
5	*5510.00	89.2 AV			1.23 V	335	46.22	42.98
6	11020.00	58.0 PK	74.0	-16.0	1.33 V	112	8.05	49.95
7	11020.00	46.1 AV	54.0	-7.9	1.33 V	112	-3.85	49.95
8	#16530.00	64.1 PK	68.3	-4.2	1.38 V	20	7.47	56.63

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	105.0 PK			1.00 H	69	61.92	43.08
2	*5550.00	95.6 AV			1.00 H	69	52.52	43.08
3	11100.00	56.2 PK	74.0	-17.8	1.61 H	169	6.50	49.70
4	11100.00	43.5 AV	54.0	-10.5	1.61 H	169	-6.20	49.70
5	#16650.00	64.5 PK	68.3	-3.8	1.06 H	80	7.60	56.90
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	106.2 PK			1.15 V	324	63.12	43.08
2	*5550.00	96.1 AV			1.15 V	324	53.02	43.08
3	11100.00	58.2 PK	74.0	-15.8	1.35 V	125	8.50	49.70
4	11100.00	46.3 AV	54.0	-7.7	1.35 V	125	-3.40	49.70
5	#16650.00	64.5 PK	68.3	-3.8	1.39 V	31	7.60	56.90

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	104.5 PK			1.07 H	141	61.25	43.25
2	*5670.00	94.0 AV			1.07 H	141	50.75	43.25
3	#5725.00	63.2 PK	68.3	-5.1	1.05 H	132	19.90	43.30
4	11340.00	55.7 PK	74.0	-18.3	1.63 H	165	5.64	50.06
5	11340.00	43.1 AV	54.0	-10.9	1.63 H	165	-6.96	50.06
6	#17010.00	64.6 PK	68.3	-3.7	1.11 H	95	7.32	57.28
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	103.8 PK			1.17 V	251	60.55	43.25
2	*5670.00	94.3 AV			1.17 V	251	51.05	43.25
3	#5725.00	65.2 PK	68.3	-3.1	1.13 V	232	21.90	43.30
4	11340.00	58.8 PK	74.0	-15.2	1.38 V	114	8.74	50.06
5	11340.00	46.8 AV	54.0	-7.2	1.38 V	114	-3.26	50.06
6	#17010.00	64.3 PK	68.3	-4.0	1.43 V	33	7.02	57.28

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.

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



A D T

6. INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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



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.

--- END ---