FCC TEST REPORT (15.407)

REPORT NO.:	RF120113E07-1
MODEL NO.:	FXE2000-G
FCC ID:	PQRFXE2000-G
RECEIVED:	Jan. 13, 2012
TESTED:	Jan. 19 to Apr. 17, 2012
ISSUED:	May 15, 2012
APPLICANT:	Contec Co., Ltd.
ADDRESS:	3-9-31, Himesato, Nishiyodogawa-ku Osaka Japan 555-0025
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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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120113E07-1	Original release	May 15, 2012

1. CERTIFICATION

PRODUCT:	Wireless LAN Adapter
BRAND NAME:	CONTEC
MODEL NO.:	FXE2000-G
TEST SAMPLE:	R&D SAMPLE
APPLICANT:	Contec Co., Ltd.
TESTED:	Jan. 19 to Apr. 17, 2012
STANDARDS:	FCC Part 15, Subpart E (Section 15.407) ANSI C63.10-2009

The above equipment (Model: FXE2000-G) 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:** May 15, 2012
(Midoli Peng, Specialist)

APPROVED BY : _____, **DATE:** May 15, 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)			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -4.93dB at 26.60938MHz
15.407(b/1/2/3)(b)(6)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.6dB at 5725.00MHz.
15.407(a/1/2)	Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a/1/2)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is U.FL / R-SMA not a standard connector.

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. (RF120113E07).
2. The DFS report was recorded in another test report<Report No.: RF120113E07-2>.

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	2.45 dB
Radiated emissions (30MHz-1GHz)	5.69 dB
Radiated emissions (1GHz -6GHz)	5.12 dB
Radiated emissions (6GHz -18GHz)	5.32 dB
Radiated emissions (18GHz -40GHz)	2.37 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless LAN Adapter
MODEL NO.	FXE2000-G
POWER SUPPLY	DC 5V from power adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n (20MHz, 800ns GI): up to 130Mbps 802.11n (20MHz, 400ns GI): up to 144.444Mbps 802.11n (40MHz, 800ns GI)：up to 270Mbps 802.11n (40MHz, 400ns GI)：up to 300Mbps
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
NUMBER OF CHANNEL	**For 15.407** 16 for 802.11a, 802.11n (20MHz) 7 for 802.11n (40MHz)
	For 15.247(2.4GHz) 11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz) **For 15.247(5GHz)** 5 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz)

MAXIMUM OUTPUT POWER	**For 15.407** 802.11a: 62.559mW 802.11n (20MHz): 56.170mW 802.11n (40MHz): 57.660mW **For 15.247 (2.4GHz)** 802.11b: 120.640mW 802.11g: 662.965mW 802.11n (20MHz): 480.912mW 802.11n (40MHz): 209.426mW **For 15.247 (5GHz)** 802.11a: 336.852mW 802.11n (20MHz): 321.691mW 802.11n (40MHz): 347.652mW
ANTENNA TYPE	Please see note
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	Adapter x 1

NOTE:

1. The EUT must be supplied with a power adapter, please refer to the following table:

Brand	Model No.	Spec.
Sino-American	SA115B-05U	Input: 100-240V, 0.4A, 50-60Hz AC input cable (1.8m, unshielded) Output: 5V, 2A, 10W DC output cable (1.9m, unshielded)

2. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX/RX FUNCTION
802.11b	2Tx/2Rx
802.11g	2Tx/2Rx
802.11a	2Tx/2Rx
802.11n (20MHz)	2Tx/2Rx
802.11n (40MHz)	2Tx/2Rx

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

Set 1								
Brand	Model	Antenna Type	Peak Gain(dBi) (Exclude cable loss)	Net Gain (dBi) (Include cable loss)	Connecter Type	Cable Length (cm)	Cable Loss (dB)	Transmitter Circuit
FDK	AN1523	chip	2.4GHz: 2 5GHz :1	2.4GHz: 0.6 5GHz :-0.4	U.FL	16	1.4	Chain (0) & Chain (1)

Set 2									
Brand	Model	Antenna Type	Peak Gain(dBi) (Exclude cable loss)	Net Gain (dBi) (Include cable loss)	Connecter Type	Cable Length (cm)	Cable Loss (dB)	Total Cable Loss (dB)	Transmitter Circuit
Azure Solutions, Inc.	MR-1700-W	Vehicle	2.4GHz: 4	2.4GHz: 2.1695	Cable 1: R-SMA Cable 2: U.FL	Cable 1: 152 Cable 2: 20	Cable 1: 0.9305 Cable 2: 0.9	1.8305	Chain (0) & Chain (1)

Set 3									
Brand	Model	Antenna Type	Peak Gain(dBi) (Exclude cable loss)	Net Gain (dBi) (Include cable loss)	Connecter Type	Cable Length (cm)	Cable Loss (dB)	Total Cable Loss (dB)	Transmitter Circuit
Azure Solutions, Inc.	MR-6000	Vehicle	5GHz :4	5GHz: 0.7978	Cable 1: R-SMA Cable 2: U.FL	Cable 1: 152 Cable 2: 20	Cable 1: 1.5022 Cable 2: 1.7	3.2022	Chain (0) & Chain (1)

When operating Ant Set 2 or Set 3, that should connect cable1 & cable2 together.

4. The EUT is 2 * 2 spatial MIMO (2Tx & 2Rx) without beam forming function.
5. 2.4GHz and 5GHz technology cannot transmit at same time.
6. When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.
7. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 5150MHz ~ 5350MHz bands:

Eight channels are provided for 802.11a and 802.11n (20MHz):

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 (40MHz):

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 (20MHz):

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 (40MHz):

CHANNEL	FREQUENCY
102	5510 MHz
110	5550 MHz
134	5670 MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE < 1G	RE ³ 1G	APCM	
Mode 1	√	√	√	-	With antenna set 1
Mode 2	-	√	√	√	With antenna set 3

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

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

NOTE: 1. "_" means no effect

2. EUT with antenna set 1: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane** (Below 1GHz) & **Y-plane (**Above 1GHz).

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	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 140	132	OFDM	BPSK	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	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 140	132	OFDM	BPSK	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	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	6
For 5 GHz 802.11n (20MHz)	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	6.5
For 5 GHz 802.11n (40MHz)	38 to 134	38, 46, 54, 62, 102, 110, 134	OFDM	BPSK	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	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	6
For 5 GHz 802.11n (20MHz)	36 to 140	36, 40, 48, 52, 60, 64, 100, 116, 132, 140	OFDM	BPSK	6.5
For 5 GHz 802.11n (40MHz)	38 to 134	38, 46, 54, 62, 102, 110, 134	OFDM	BPSK	13.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
PLC	23deg. C, 69%RH	120Vac, 60Hz	Kyle Huang
RE<1G	21deg. C, 69%RH	120Vac, 60Hz	Frank Liu
RE≥1G	28deg. C, 75%RH	120Vac, 60Hz	Evan Huang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Rex Huang

3.3 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)

ANSI C63.10-2009

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class A. The test report has been issued separately.

3.4 DUTY CYCLE OF TEST SIGNAL

Test tool can set the EUT to transmit at > 98 % duty cycle.

3.5 DESCRIPTION OF SUPPORT UNITS

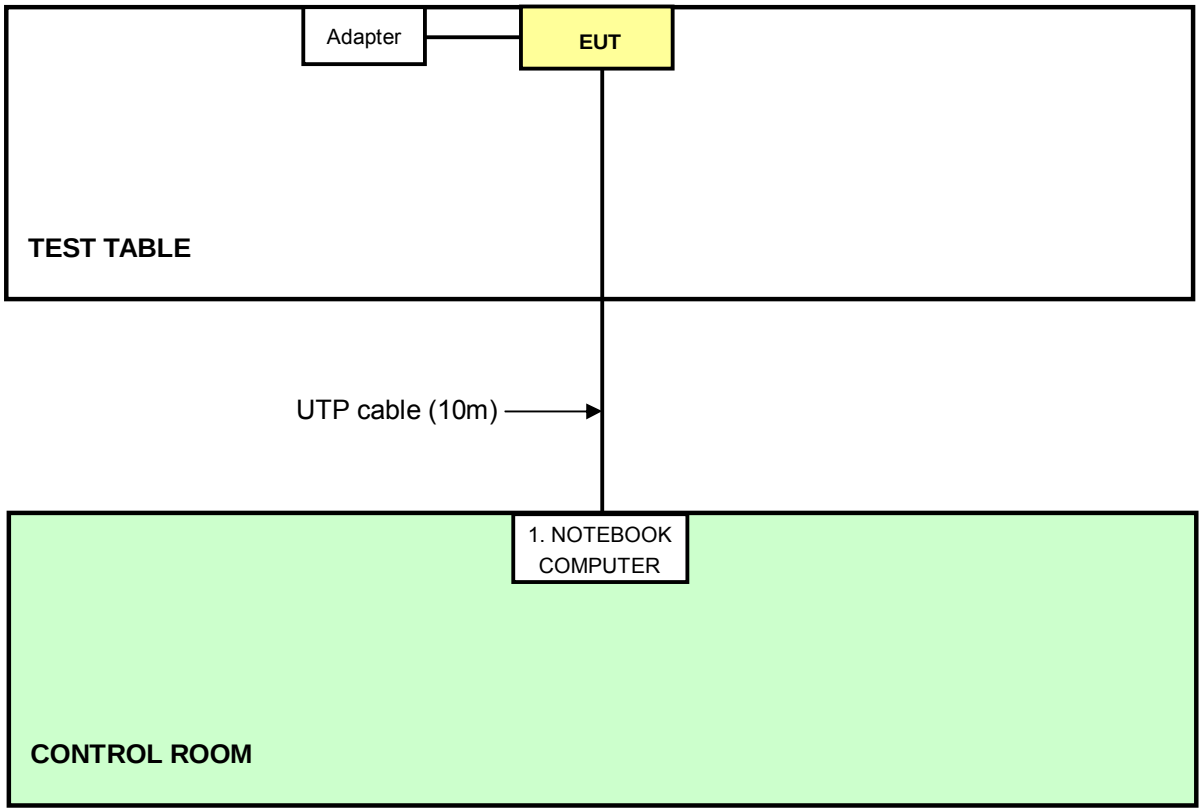
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

For Conducted emission test					
NO.	**PRODUCT**	**BRAND**	**MODEL NO.**	**SERIAL NO.**	**FCC ID**
1	NOTEBOOK COMPUTER	ASUS	ASUSM2400N	38NP051951	FCC DoC
For other test items					
NO.	**PRODUCT**	**BRAND**	**MODEL NO.**	**SERIAL NO.**	**FCC ID**
1	NOTEBOOK COMPUTER	DELL	PP32LA	FSLB32S	FCC DoC

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	UTP cable, 10m

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 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50

NOTE: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100287	Mar. 02, 2011	Mar. 01, 2012
Line-Impedance Stabilization Network (for EUT)	NSLK 8127	8127-523	Sep. 20, 2011	Sep. 19, 2012
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100072	June 10, 2011	June 09, 2012
RF Cable (JYEBAO)	5DFB	CONCAB-003	Aug. 05, 2011	Aug. 04, 2012
50 ohms Terminator	50	3	Nov. 02, 2011	Nov. 01, 2012
Software	BV ADT_Cond_V7.3.7	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. A.
3 The VCCI Con A Registration No. is C-817.
4 Tested Date: Jan. 19, 2012

4.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN.

b. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

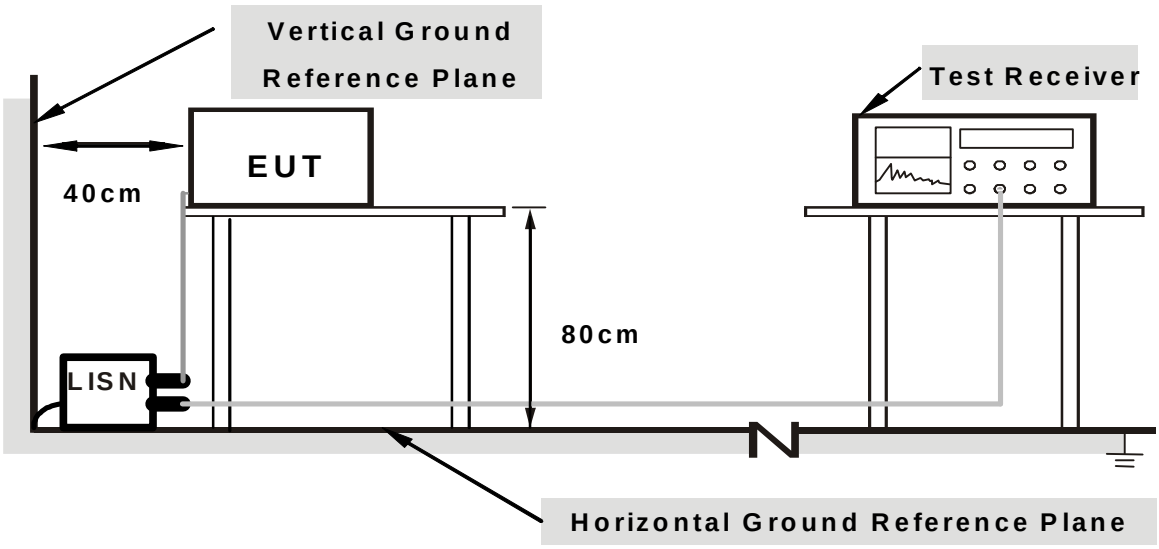
c. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

d. The frequency range from 150kHz to 30MHz was searched. Emission level under (Limit – 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

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 “art.exe” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

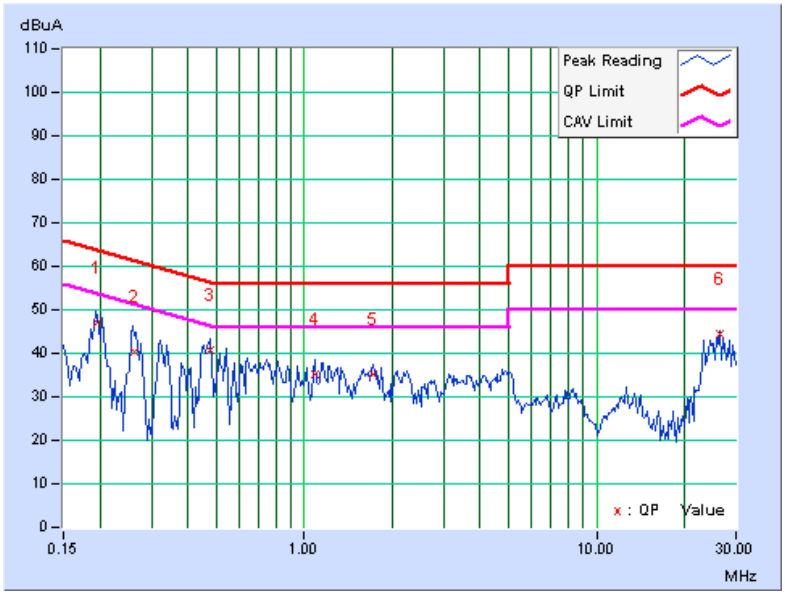
4.1.7 TEST RESULTS

PHASE	Line (L)	6dB BANDWIDTH	9 kHz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19659	0.06	46.85	36.96	46.91	37.02	63.75	53.75	-16.84	-16.73
2	0.26262	0.06	40.26	33.19	40.32	33.25	61.35	51.35	-21.02	-18.09
3	0.47422	0.07	40.77	38.12	40.84	38.19	56.44	46.44	-15.60	-8.25
4	1.08203	0.10	35.20	32.37	35.30	32.47	56.00	46.00	-20.70	-13.53
5	1.71875	0.15	35.13	31.82	35.28	31.97	56.00	46.00	-20.72	-14.03
6	26.54688	0.81	43.47	43.25	44.28	44.06	60.00	50.00	-15.72	-5.94

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.

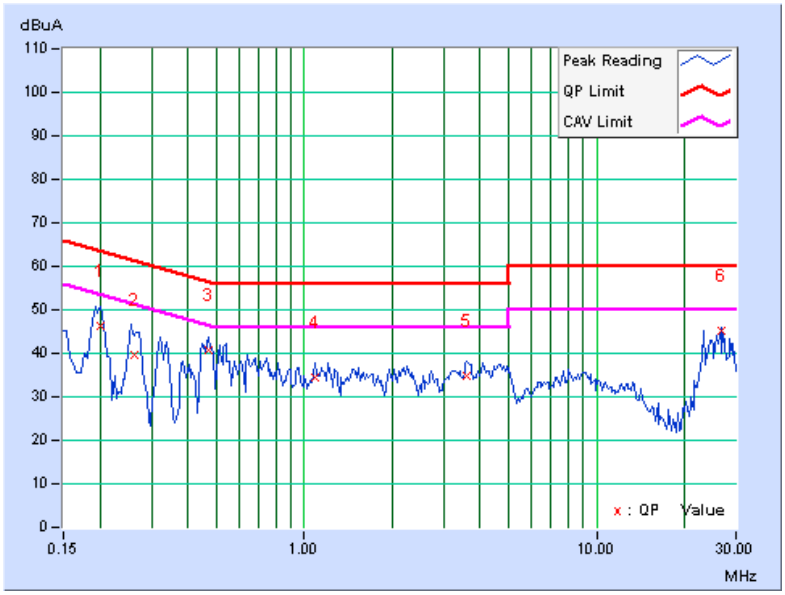


PHASE	Neutral (N)	6dB BANDWIDTH	9 kHz

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20022	0.07	46.34	38.83	46.41	38.90	63.60	53.60	-17.19	-14.70
2	0.26334	0.07	39.65	34.38	39.72	34.45	61.33	51.33	-21.60	-16.87
3	0.47031	0.08	40.72	38.06	40.80	38.14	56.51	46.51	-15.71	-8.37
4	1.08203	0.10	34.45	31.79	34.55	31.89	56.00	46.00	-21.45	-14.11
5	3.61328	0.25	34.43	30.08	34.68	30.33	56.00	46.00	-21.32	-15.67
6	**26.60938**	**0.80**	**44.48**	**44.27**	**45.28**	**45.07**	**60.00**	**50.00**	**-14.72**	**-4.93**

REMARKS:

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Unwanted 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:

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

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

4.2.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Agilent Spectrum Analyzer	E4446A	MY48250253	Aug. 29, 2011	Aug. 28, 2012
Agilent Pre-Selector	N9039A	MY46520310	Aug. 29, 2011	Aug. 28, 2012
Agilent Signal Generator	N5181A	MY49060347	July 25, 2011	July 24, 2012
Mini-Circuits Pre-Amplifier	ZFL-1000VH2B	AMP-ZFL-04	Nov. 15, 2011	Nov. 14, 2012
Agilent Pre-Amplifier	8449B	3008A02465	Feb. 27, 2012	Feb. 26, 2013
SPACEK LABS	SLKKa-48-6	9K16	Nov. 15, 2011	Nov. 14, 2012
SCHWARZBECK Trilog Broadband Antenna	VULB 9168	9168-361	Apr. 06, 2012	Apr. 05, 2013
AISI Horn_Antenna	AIH.8018	0000220091110	Nov. 23, 2011	Nov. 22, 2012
SCHWARZBECK Horn_Antenna	BBHA 9170	9170-424	Oct. 07, 2011	Oct. 06, 2012
RF Cable	NA	RF104-205 RF104-207 RF104-202	Dec. 27, 2011	Dec. 26, 2012
RF Cable	NA	CHHCAB_001	Oct. 08, 2011	Oct. 07, 2012
Software	ADT_Radiated_ V8.7.05	NA	NA	NA
CT Antenna Tower & Turn Table	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: Apr. 17, 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 meter chamber room. 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.

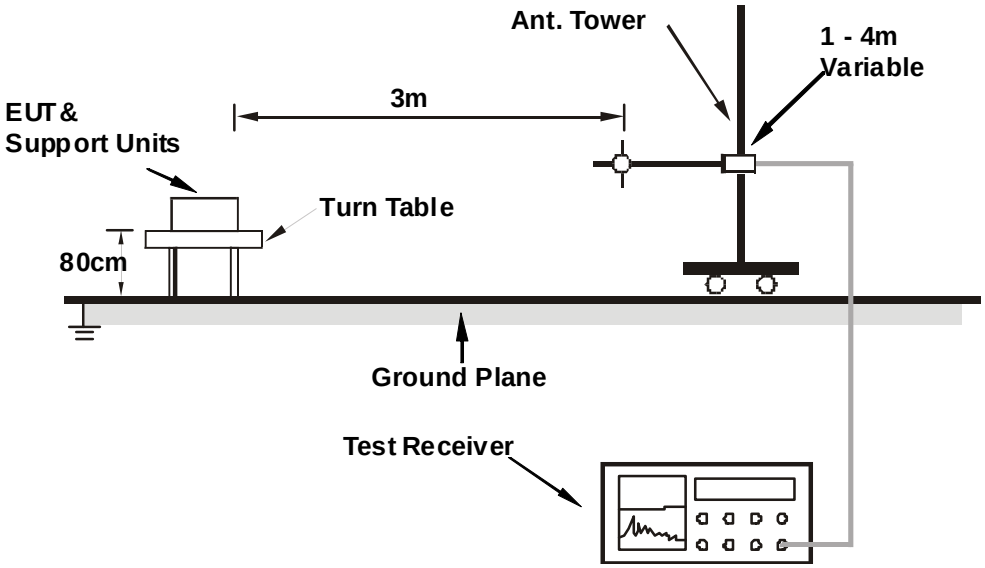
NOTE:

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

Same as 4.1.6

4.2.8 TEST RESULTS (MODE 1, WITH ANTENNA SET1)

BELOW 1GHz WORST-CASE DATA

802.11a

CHANNEL	TX Channel 132	**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	101.88	30.3 QP	43.5	-13.2	2.00 H	111	20.28	9.98
2	111.59	31.4 QP	43.5	-12.1	2.00 H	152	20.19	11.24
3	164.41	36.6 QP	43.5	-6.9	2.00 H	313	22.52	14.06
4	250.03	34.3 QP	46.0	-11.7	2.00 H	244	20.96	13.30
5	509.97	28.2 QP	46.0	-17.8	2.00 H	213	7.93	20.26
6	1000.00	33.8 QP	54.0	-20.2	2.00 H	134	5.30	28.54
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	55.93	36.8 QP	40.0	-3.2	1.00 V	124	23.11	13.73
2	86.13	36.3 QP	40.0	-3.7	1.50 V	184	27.46	8.80
3	98.45	39.1 QP	43.5	-4.4	1.00 V	212	29.60	9.53
4	250.03	33.6 QP	46.0	-12.5	1.00 V	256	20.25	13.30
5	874.95	33.7 QP	46.0	-12.3	1.00 V	344	7.02	26.66
6	1000.00	39.2 QP	54.0	-14.8	1.00 V	237	10.70	28.54

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

ABOVE 1GHz DATA

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	59.1 PK	74.0	-14.9	1.00 H	286	17.12	41.98
2	5150.00	47.4 AV	54.0	-6.6	1.00 H	286	5.42	41.98
3	*5180.00	107.3 PK			1.38 H	76	65.23	42.07
4	*5180.00	97.5 AV			1.38 H	76	55.43	42.07
5	#10360.00	58.2 PK	68.3	-10.1	1.17 H	324	9.41	48.79
6	15540.00	63.0 PK	74.0	-11.0	1.36 H	166	8.63	54.37
7	15540.00	50.5 AV	54.0	-3.5	1.36 H	166	-3.87	54.37
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	5018.90	58.2 PK	74.0	-15.8	1.00 V	213	16.51	41.69
2	5018.90	43.7 AV	54.0	-10.3	1.00 V	213	2.01	41.69
3	*5180.00	98.4 PK			1.00 V	213	56.33	42.07
4	*5180.00	89.0 AV			1.00 V	213	46.93	42.07
5	#10360.00	57.1 PK	68.3	-11.2	1.21 V	34	8.31	48.79
6	15540.00	62.4 PK	74.0	-11.6	1.44 V	177	8.03	54.37
7	15540.00	49.1 AV	54.0	-4.9	1.44 V	177	-5.27	54.37

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 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	107.2 PK			1.42 H	87	65.07	42.13
2	*5200.00	97.2 AV			1.42 H	87	55.07	42.13
3	#10400.00	57.3 PK	68.3	-11.0	1.21 H	311	8.83	48.47
4	15600.00	63.5 PK	74.0	-10.5	1.32 H	172	9.12	54.38
5	15600.00	50.9 AV	54.0	-3.1	1.32 H	172	-3.48	54.38
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	98.3 PK			1.03 V	204	56.17	42.13
2	*5200.00	88.6 AV			1.03 V	204	46.47	42.13
3	#10400.00	56.6 PK	68.3	-11.7	1.17 V	31	8.13	48.47
4	15600.00	62.6 PK	74.0	-11.4	1.40 V	164	8.22	54.38
5	15600.00	49.4 AV	54.0	-4.6	1.40 V	164	-4.98	54.38

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	106.7 PK			1.45 H	99	64.52	42.18
2	*5240.00	96.9 AV			1.45 H	99	54.72	42.18
3	#10480.00	58.4 PK	68.3	-9.9	1.17 H	301	9.47	48.93
4	15720.00	63.5 PK	74.0	-10.5	1.34 H	176	9.57	53.93
5	15720.00	50.7 AV	54.0	-3.3	1.34 H	176	-3.23	53.93
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	98.6 PK			1.05 V	200	56.42	42.18
2	*5240.00	89.0 AV			1.05 V	200	46.82	42.18
3	#10480.00	56.1 PK	68.3	-12.2	1.18 V	24	7.17	48.93
4	15720.00	62.4 PK	74.0	-11.6	1.38 V	163	8.47	53.93
5	15720.00	49.8 AV	54.0	-4.2	1.38 V	163	-4.13	53.93

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	106.7 PK			1.46 H	92	64.50	42.20
2	*5260.00	97.2 AV			1.46 H	92	55.00	42.20
3	#10520.00	59.3 PK	68.3	-9.0	1.22 H	302	10.31	48.99
4	15780.00	63.8 PK	74.0	-10.2	1.37 H	160	9.68	54.12
5	15780.00	50.7 AV	54.0	-3.3	1.37 H	160	-3.42	54.12
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	*5260.00	98.2 PK			1.01 V	188	56.00	42.20
2	*5260.00	88.9 AV			1.01 V	188	46.70	42.20
3	#10520.00	56.5 PK	68.3	-11.8	1.14 V	30	7.51	48.99
4	15780.00	62.5 PK	74.0	-11.5	1.32 V	164	8.38	54.12
5	15780.00	49.9 AV	54.0	-4.1	1.32 V	164	-4.22	54.12

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 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	106.3 PK			1.39 H	77	64.05	42.25
2	*5300.00	96.5 AV			1.39 H	77	54.25	42.25
3	10600.00	59.6 PK	74.0	-14.4	1.18 H	298	10.79	48.81
4	10600.00	46.8 AV	54.0	-7.2	1.18 H	298	-2.01	48.81
5	15900.00	63.5 PK	74.0	-10.5	1.38 H	171	9.36	54.14
6	15900.00	50.7 AV	54.0	-3.3	1.38 H	171	-3.44	54.14
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	97.9 PK			1.00 V	205	55.65	42.25
2	*5300.00	88.6 AV			1.00 V	205	46.35	42.25
3	10600.00	58.1 PK	74.0	-15.9	1.10 V	15	9.29	48.81
4	10600.00	46.3 AV	54.0	-7.7	1.10 V	15	-2.51	48.81
5	15900.00	62.9 PK	74.0	-11.1	1.27 V	175	8.76	54.14
6	15900.00	50.4 AV	54.0	-3.6	1.27 V	175	-3.74	54.14

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	106.9 PK			1.41 H	84	64.64	42.26
2	*5320.00	97.3 AV			1.41 H	84	55.04	42.26
3	5350.00	59.8 PK	74.0	-14.2	1.53 H	132	17.52	42.28
4	5350.00	47.4 AV	54.0	-6.6	1.53 H	132	5.12	42.28
5	10640.00	59.5 PK	74.0	-14.5	1.21 H	292	10.55	48.95
6	10640.00	46.6 AV	54.0	-7.4	1.21 H	292	-2.35	48.95
7	15960.00	63.7 PK	74.0	-10.3	1.33 H	176	9.58	54.12
8	15960.00	51.0 AV	54.0	-3.0	1.33 H	176	-3.12	54.12
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	*5320.00	97.7 PK			1.00 V	216	55.44	42.26
2	*5320.00	88.3 AV			1.00 V	216	46.04	42.26
3	5350.00	56.5 PK	74.0	-17.5	1.00 V	215	14.22	42.28
4	5350.00	44.7 AV	54.0	-9.3	1.00 V	215	2.42	42.28
5	10640.00	58.0 PK	74.0	-16.0	1.14 V	15	9.05	48.95
6	10640.00	46.2 AV	54.0	-7.8	1.14 V	15	-2.75	48.95
7	15960.00	62.7 PK	74.0	-11.3	1.26 V	182	8.58	54.12
8	15960.00	50.7 AV	54.0	-3.3	1.26 V	182	-3.42	54.12

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.

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	60.2 PK	74.0	-13.8	1.59 H	274	17.69	42.51
2	5460.00	48.0 AV	54.0	-6.0	1.59 H	274	5.49	42.51
3	#5470.00	67.4 PK	68.3	-0.9	1.59 H	129	24.86	42.54
4	*5500.00	111.0 PK			1.40 H	96	68.36	42.64
5	*5500.00	101.6 AV			1.40 H	96	58.96	42.64
6	11000.00	59.8 PK	74.0	-14.2	1.17 H	276	10.42	49.38
7	11000.00	46.9 AV	54.0	-7.1	1.17 H	276	-2.48	49.38
8	#16500.00	63.9 PK	68.3	-4.4	1.32 H	174	8.35	55.55
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	1.00 V	211	13.49	42.51
2	5460.00	44.7 AV	54.0	-9.3	1.00 V	211	2.19	42.51
3	#5470.00	62.8 PK	68.3	-5.5	1.00 V	211	20.26	42.54
4	*5500.00	99.4 PK			1.00 V	211	56.76	42.64
5	*5500.00	90.1 AV			1.00 V	211	47.46	42.64
6	11000.00	57.9 PK	74.0	-16.1	1.12 V	18	8.52	49.38
7	11000.00	46.1 AV	54.0	-7.9	1.12 V	18	-3.28	49.38
8	#16500.00	62.7 PK	68.3	-5.6	1.22 V	190	7.15	55.55

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	110.6 PK			1.39 H	111	67.78	42.82
2	*5580.00	101.2 AV			1.39 H	111	58.38	42.82
3	11160.00	59.7 PK	74.0	-14.3	1.15 H	282	10.53	49.17
4	11160.00	46.9 AV	54.0	-7.1	1.15 H	282	-2.27	49.17
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	99.9 PK			1.10 V	209	57.08	42.82
2	*5580.00	90.5 AV			1.10 V	209	47.68	42.82
3	11160.00	57.3 PK	74.0	-16.7	1.10 V	23	8.13	49.17
4	11160.00	45.7 AV	54.0	-8.3	1.10 V	23	-3.47	49.17
5	#16740.00	62.9 PK	68.3	-5.4	1.27 V	182	7.21	55.69

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5660.00	110.4 PK			1.36 H	101	67.52	42.88
2	*5660.00	101.0 AV			1.36 H	101	58.12	42.88
3	11320.00	59.3 PK	74.0	-14.7	1.13 H	284	9.79	49.51
4	11320.00	46.5 AV	54.0	-7.5	1.13 H	284	-3.01	49.51
5	#16980.00	65.0 PK	68.3	-3.3	1.34 H	153	8.58	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	*5660.00	99.9 PK			1.06 V	210	57.02	42.88
2	*5660.00	90.6 AV			1.06 V	210	47.72	42.88
3	11320.00	57.4 PK	74.0	-16.6	1.12 V	20	7.89	49.51
4	11320.00	45.5 AV	54.0	-8.5	1.12 V	20	-4.01	49.51
5	#16980.00	62.4 PK	68.3	-5.9	1.26 V	185	5.98	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 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	108.2 PK			1.52 H	66	65.30	42.90
2	*5700.00	99.2 AV			1.52 H	66	56.30	42.90
3	#5725.00	65.5 PK	68.3	-2.8	1.51 H	128	22.57	42.93
4	11400.00	59.4 PK	74.0	-14.6	1.14 H	276	10.03	49.37
5	11400.00	46.8 AV	54.0	-7.2	1.14 H	276	-2.57	49.37
6	#17100.00	64.3 PK	68.3	-4.0	1.39 H	156	7.92	56.38
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	99.8 PK			1.03 V	200	56.90	42.90
2	*5700.00	90.4 AV			1.03 V	200	47.50	42.90
3	#5725.00	63.4 PK	68.3	-4.9	1.03 V	200	20.47	42.93
4	11400.00	57.3 PK	74.0	-16.7	1.07 V	11	7.93	49.37
5	11400.00	45.6 AV	54.0	-8.4	1.07 V	11	-3.77	49.37
6	#17100.00	62.5 PK	68.3	-5.8	1.28 V	180	6.12	56.38

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 (20MHz)

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	59.1 PK	74.0	-14.9	1.63 H	277	17.12	41.98
2	5150.00	47.3 AV	54.0	-6.7	1.63 H	277	5.32	41.98
3	*5180.00	106.8 PK			1.60 H	281	64.73	42.07
4	*5180.00	97.3 AV			1.60 H	281	55.23	42.07
5	#10360.00	58.8 PK	68.3	-9.5	1.17 H	277	10.01	48.79
6	15540.00	63.1 PK	74.0	-10.9	1.35 H	150	8.73	54.37
7	15540.00	50.5 AV	54.0	-3.5	1.35 H	150	-3.87	54.37
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	5062.20	56.7 PK	74.0	-17.3	1.00 V	220	14.93	41.77
2	5062.20	43.6 AV	54.0	-10.4	1.00 V	220	1.83	41.77
3	*5180.00	96.2 PK			1.00 V	220	54.13	42.07
4	*5180.00	85.9 AV			1.00 V	220	43.83	42.07
5	#10360.00	57.7 PK	68.3	-10.6	1.10 V	16	8.91	48.79
6	15540.00	62.3 PK	74.0	-11.7	1.28 V	170	7.93	54.37
7	15540.00	50.2 AV	54.0	-3.8	1.28 V	170	-4.17	54.37

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 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			1.54 H	280	64.77	42.13
2	*5200.00	97.6 AV			1.54 H	280	55.47	42.13
3	#10400.00	59.0 PK	68.3	-9.3	1.12 H	263	10.53	48.47
4	15600.00	62.0 PK	74.0	-12.0	1.33 H	154	7.62	54.38
5	15600.00	50.3 AV	54.0	-3.7	1.33 H	154	-4.08	54.38
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	96.4 PK			1.00 V	210	54.27	42.13
2	*5200.00	85.8 AV			1.00 V	210	43.67	42.13
3	#10400.00	58.2 PK	68.3	-10.1	1.13 V	11	9.73	48.47
4	15600.00	61.7 PK	74.0	-12.3	1.22 V	155	7.32	54.38
5	15600.00	49.9 AV	54.0	-4.1	1.22 V	155	-4.48	54.38

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	106.7 PK			1.58 H	283	64.52	42.18
2	*5240.00	97.6 AV			1.58 H	283	55.42	42.18
3	#10480.00	59.3 PK	68.3	-9.0	1.14 H	282	10.37	48.93
4	15720.00	63.1 PK	74.0	-10.9	1.35 H	140	9.17	53.93
5	15720.00	50.5 AV	54.0	-3.5	1.35 H	140	-3.43	53.93
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	96.5 PK			1.06 V	200	54.32	42.18
2	*5240.00	86.2 AV			1.06 V	200	44.02	42.18
3	#10480.00	58.5 PK	68.3	-9.8	1.12 V	25	9.57	48.93
4	15720.00	62.5 PK	74.0	-11.5	1.26 V	149	8.57	53.93
5	15720.00	50.2 AV	54.0	-3.8	1.26 V	149	-3.73	53.93

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	107.7 PK			1.62 H	74	65.50	42.20
2	*5260.00	98.4 AV			1.62 H	74	56.20	42.20
3	#10520.00	58.7 PK	68.3	-9.6	1.16 H	287	9.71	48.99
4	15780.00	62.5 PK	74.0	-11.5	1.38 H	140	8.38	54.12
5	15780.00	50.5 AV	54.0	-3.5	1.38 H	140	-3.62	54.12
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	*5260.00	96.1 PK			1.09 V	200	53.90	42.20
2	*5260.00	85.7 AV			1.09 V	200	43.50	42.20
3	#10520.00	58.1 PK	68.3	-10.2	1.07 V	30	9.11	48.99
4	15780.00	61.9 PK	74.0	-12.1	1.32 V	146	7.78	54.12
5	15780.00	49.9 AV	54.0	-4.1	1.32 V	146	-4.22	54.12

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 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	107.2 PK			1.61 H	59	64.95	42.25
2	*5300.00	98.1 AV			1.61 H	59	55.85	42.25
3	10600.00	58.2 PK	74.0	-15.8	1.18 H	303	9.39	48.81
4	10600.00	46.7 AV	54.0	-7.3	1.18 H	303	-2.11	48.81
5	15900.00	62.3 PK	74.0	-11.7	1.42 H	146	8.16	54.14
6	15900.00	50.5 AV	54.0	-3.5	1.42 H	146	-3.64	54.14
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	96.5 PK			1.07 V	208	54.25	42.25
2	*5300.00	86.0 AV			1.07 V	208	43.75	42.25
3	10600.00	58.2 PK	74.0	-15.8	1.19 V	17	9.39	48.81
4	10600.00	46.4 AV	54.0	-7.6	1.19 V	17	-2.41	48.81
5	15900.00	62.0 PK	74.0	-12.0	1.24 V	188	7.86	54.14
6	15900.00	50.2 AV	54.0	-3.8	1.24 V	188	-3.94	54.14

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	106.5 PK			1.60 H	66	64.24	42.26
2	*5320.00	97.6 AV			1.60 H	66	55.34	42.26
3	5350.00	55.9 PK	74.0	-18.1	1.00 H	37	13.62	42.28
4	5350.00	45.4 AV	54.0	-8.6	1.00 H	37	3.12	42.28
5	10640.00	58.9 PK	74.0	-15.1	1.15 H	312	9.95	48.95
6	10640.00	47.1 AV	54.0	-6.9	1.15 H	312	-1.85	48.95
7	15960.00	62.4 PK	74.0	-11.6	1.39 H	155	8.28	54.12
8	15960.00	50.3 AV	54.0	-3.7	1.39 H	155	-3.82	54.12
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	*5320.00	96.4 PK			1.00 V	215	54.14	42.26
2	*5320.00	85.9 AV			1.00 V	215	43.64	42.26
3	5350.00	56.5 PK	74.0	-17.5	1.00 V	214	14.22	42.28
4	5350.00	44.5 AV	54.0	-9.5	1.00 V	214	2.22	42.28
5	10640.00	58.6 PK	74.0	-15.4	1.23 V	24	9.65	48.95
6	10640.00	46.6 AV	54.0	-7.4	1.23 V	24	-2.35	48.95
7	15960.00	61.8 PK	74.0	-12.2	1.19 V	198	7.68	54.12
8	15960.00	49.9 AV	54.0	-4.1	1.19 V	198	-4.22	54.12

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.

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	59.8 PK	74.0	-14.2	1.59 H	117	17.29	42.51
2	5460.00	47.7 AV	54.0	-6.3	1.59 H	117	5.19	42.51
3	#5470.00	67.0 PK	68.3	-1.3	1.58 H	64	24.46	42.54
4	*5500.00	108.9 PK			1.57 H	128	66.26	42.64
5	*5500.00	98.6 AV			1.57 H	128	55.96	42.64
6	11000.00	58.9 PK	74.0	-15.1	1.13 H	301	9.52	49.38
7	11000.00	47.4 AV	54.0	-6.6	1.13 H	301	-1.98	49.38
8	#16500.00	64.1 PK	68.3	-4.2	1.44 H	149	8.55	55.55
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	57.7 PK	74.0	-16.3	1.05 V	205	15.19	42.51
2	5460.00	44.9 AV	54.0	-9.1	1.05 V	205	2.39	42.51
3	#5470.00	63.1 PK	68.3	-5.2	1.05 V	205	20.56	42.54
4	*5500.00	96.4 PK			1.05 V	205	53.76	42.64
5	*5500.00	86.0 AV			1.05 V	205	43.36	42.64
6	11000.00	58.8 PK	74.0	-15.2	1.25 V	9	9.42	49.38
7	11000.00	46.5 AV	54.0	-7.5	1.25 V	9	-2.88	49.38
8	#16500.00	63.9 PK	68.3	-4.4	1.18 V	204	8.35	55.55

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	107.7 PK			1.43 H	260	64.88	42.82
2	*5580.00	98.9 AV			1.43 H	260	56.08	42.82
3	11160.00	59.0 PK	74.0	-15.0	1.17 H	290	9.83	49.17
4	11160.00	47.2 AV	54.0	-6.8	1.17 H	290	-1.97	49.17
5	#16740.00	64.4 PK	68.3	-3.9	1.40 H	137	8.71	55.69
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	98.4 PK			1.00 V	220	55.58	42.82
2	*5580.00	87.8 AV			1.00 V	220	44.98	42.82
3	11160.00	58.7 PK	74.0	-15.3	1.17 V	20	9.53	49.17
4	11160.00	46.6 AV	54.0	-7.4	1.17 V	20	-2.57	49.17
5	#16740.00	63.4 PK	68.3	-4.9	1.12 V	205	7.71	55.69

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	108.3 PK			1.49 H	263	65.42	42.88
2	*5660.00	99.2 AV			1.49 H	263	56.32	42.88
3	11320.00	59.0 PK	74.0	-15.0	1.13 H	291	9.49	49.51
4	11320.00	47.0 AV	54.0	-7.0	1.13 H	291	-2.51	49.51
5	#16980.00	64.7 PK	68.3	-3.6	1.42 H	147	8.28	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	*5660.00	96.8 PK			1.04 V	217	53.92	42.88
2	*5660.00	86.4 AV			1.04 V	217	43.52	42.88
3	11320.00	58.2 PK	74.0	-15.8	1.23 V	16	8.69	49.51
4	11320.00	46.4 AV	54.0	-7.6	1.23 V	16	-3.11	49.51
5	#16980.00	63.2 PK	68.3	-5.1	1.07 V	210	6.78	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 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	108.4 PK			1.50 H	264	65.50	42.90
2	*5700.00	99.4 AV			1.50 H	264	56.50	42.90
3	**#5725.00**	**67.7 PK**	**68.3**	**-0.6**	**1.51 H**	**283**	**24.77**	**42.93**
4	11400.00	58.8 PK	74.0	-15.2	1.17 H	276	9.43	49.37
5	11400.00	46.9 AV	54.0	-7.1	1.17 H	276	-2.47	49.37
6	#17100.00	64.9 PK	68.3	-3.4	1.38 H	144	8.52	56.38
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	96.9 PK			1.01 V	208	54.00	42.90
2	*5700.00	86.7 AV			1.01 V	208	43.80	42.90
3	#5725.00	64.3 PK	68.3	-4.0	1.01 V	208	21.37	42.93
4	11400.00	58.3 PK	74.0	-15.7	1.18 V	30	8.93	49.37
5	11400.00	45.8 AV	54.0	-8.2	1.18 V	30	-3.57	49.37
6	#17100.00	62.7 PK	68.3	-5.6	1.05 V	225	6.32	56.38

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 (40MHz)

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	62.9 PK	74.0	-11.1	1.00 H	285	20.92	41.98
2	5150.00	50.9 AV	54.0	-3.1	1.00 H	285	8.92	41.98
3	*5190.00	104.4 PK			1.02 H	283	62.30	42.10
4	*5190.00	94.9 AV			1.02 H	283	52.80	42.10
5	#10380.00	59.1 PK	68.3	-9.2	1.14 H	297	10.47	48.63
6	15570.00	62.1 PK	74.0	-11.9	1.31 H	139	7.72	54.38
7	15570.00	50.4 AV	54.0	-3.6	1.31 H	139	-3.98	54.38
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	57.3 PK	74.0	-16.7	1.00 V	212	15.32	41.98
2	5150.00	44.9 AV	54.0	-9.1	1.00 V	212	2.92	41.98
3	*5190.00	95.5 PK			1.00 V	212	53.40	42.10
4	*5190.00	85.3 AV			1.00 V	212	43.20	42.10
5	#10380.00	57.3 PK	68.3	-11.0	1.15 V	41	8.67	48.63
6	15570.00	61.8 PK	74.0	-12.2	1.08 V	230	7.42	54.38
7	15570.00	50.8 AV	54.0	-3.2	1.08 V	230	-3.58	54.38

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	104.7 PK			1.62 H	64	62.53	42.17
2	*5230.00	95.2 AV			1.62 H	64	53.03	42.17
3	#10460.00	59.7 PK	68.3	-8.6	1.16 H	282	10.89	48.81
4	15690.00	62.5 PK	74.0	-11.5	1.37 H	126	8.59	53.91
5	15690.00	50.6 AV	54.0	-3.4	1.37 H	126	-3.31	53.91
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	95.3 PK			1.01 V	224	53.13	42.17
2	*5230.00	85.3 AV			1.01 V	224	43.13	42.17
3	#10460.00	56.9 PK	68.3	-11.4	1.17 V	32	8.09	48.81
4	15690.00	62.3 PK	74.0	-11.7	1.09 V	236	8.39	53.91
5	15690.00	51.0 AV	54.0	-3.0	1.09 V	236	-2.91	53.91

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	104.8 PK			1.59 H	65	62.59	42.21
2	*5270.00	95.3 AV			1.59 H	65	53.09	42.21
3	#10540.00	59.6 PK	68.3	-8.7	1.12 H	270	10.65	48.95
4	15810.00	62.3 PK	74.0	-11.7	1.37 H	142	8.11	54.19
5	15810.00	50.5 AV	54.0	-3.5	1.37 H	142	-3.69	54.19
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	95.3 PK			1.01 V	231	53.09	42.21
2	*5270.00	85.3 AV			1.01 V	231	43.09	42.21
3	#10540.00	57.1 PK	68.3	-11.2	1.14 V	31	8.15	48.95
4	15810.00	62.2 PK	74.0	-11.8	1.12 V	243	8.01	54.19
5	15810.00	51.0 AV	54.0	-3.0	1.12 V	243	-3.19	54.19

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	105.0 PK			1.62 H	70	62.74	42.26
2	*5310.00	95.6 AV			1.62 H	70	53.34	42.26
3	5350.00	63.9 PK	74.0	-10.1	1.59 H	69	21.62	42.28
4	5350.00	51.4 AV	54.0	-2.6	1.59 H	69	9.12	42.28
5	10620.00	59.1 PK	74.0	-14.9	1.17 H	263	10.22	48.88
6	10620.00	46.4 AV	54.0	-7.6	1.17 H	263	-2.48	48.88
7	15930.00	63.1 PK	74.0	-10.9	1.33 H	157	8.97	54.13
8	15930.00	50.3 AV	54.0	-3.7	1.33 H	157	-3.83	54.13
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	94.5 PK			1.00 V	210	52.24	42.26
2	*5310.00	85.0 AV			1.00 V	210	42.74	42.26
3	5350.00	56.7 PK	74.0	-17.3	1.01 V	205	14.42	42.28
4	5350.00	45.3 AV	54.0	-8.7	1.01 V	205	3.02	42.28
5	10620.00	56.7 PK	74.0	-17.3	1.16 V	17	7.82	48.88
6	10620.00	45.3 AV	54.0	-8.7	1.16 V	17	-3.58	48.88
7	15930.00	61.6 PK	74.0	-12.4	1.10 V	257	7.47	54.13
8	15930.00	50.5 AV	54.0	-3.5	1.10 V	257	-3.63	54.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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	60.5 PK	74.0	-13.5	1.57 H	68	17.99	42.51
2	5460.00	48.7 AV	54.0	-5.3	1.57 H	68	6.19	42.51
3	#5470.00	66.6 PK	68.3	-1.7	1.57 H	77	24.06	42.54
4	*5510.00	104.3 PK			1.56 H	64	61.64	42.66
5	*5510.00	93.5 AV			1.56 H	64	50.84	42.66
6	11020.00	57.0 PK	74.0	-17.0	1.25 H	254	7.66	49.34
7	11020.00	45.3 AV	54.0	-8.7	1.25 H	254	-4.04	49.34
8	#16530.00	62.7 PK	68.3	-5.6	1.32 H	163	6.86	55.84
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	5460.00	58.3 PK	74.0	-15.7	1.00 V	207	15.79	42.51
2	5460.00	47.1 AV	54.0	-6.9	1.00 V	207	4.59	42.51
3	#5470.00	63.9 PK	68.3	-4.4	1.00 V	207	21.36	42.54
4	*5510.00	94.4 PK			1.00 V	207	51.74	42.66
5	*5510.00	84.7 AV			1.00 V	207	42.04	42.66
6	11020.00	56.8 PK	74.0	-17.2	1.22 V	33	7.46	49.34
7	11020.00	44.7 AV	54.0	-9.3	1.22 V	33	-4.64	49.34
8	#16530.00	61.6 PK	68.3	-6.7	1.06 V	261	5.76	55.84

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 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	105.5 PK			1.57 H	57	62.75	42.75
2	*5550.00	96.7 AV			1.57 H	57	53.95	42.75
3	11100.00	57.5 PK	74.0	-16.5	1.22 H	249	8.31	49.19
4	11100.00	45.6 AV	54.0	-8.4	1.22 H	249	-3.59	49.19
5	#16650.00	63.3 PK	68.3	-5.0	1.31 H	178	7.18	56.12
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	99.3 PK			1.01 V	216	56.55	42.75
2	*5550.00	88.1 AV			1.01 V	216	45.35	42.75
3	11100.00	56.4 PK	74.0	-17.6	1.19 V	26	7.21	49.19
4	11100.00	44.6 AV	54.0	-9.4	1.19 V	26	-4.59	49.19
5	#16650.00	61.5 PK	68.3	-6.8	1.14 V	255	5.38	56.12

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	105.8 PK			1.54 H	65	62.91	42.89
2	*5670.00	96.8 AV			1.54 H	65	53.91	42.89
3	#5725.00	66.5 PK	68.3	-1.8	1.51 H	66	23.57	42.93
4	11340.00	59.3 PK	74.0	-14.7	1.17 H	254	9.82	49.48
5	11340.00	46.4 AV	54.0	-7.6	1.17 H	254	-3.08	49.48
6	#17010.00	63.4 PK	68.3	-4.9	1.33 H	176	6.88	56.52
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	98.6 PK			1.01 V	212	55.71	42.89
2	*5670.00	87.4 AV			1.01 V	212	44.51	42.89
3	#5725.00	64.3 PK	68.3	-4.0	1.00 V	210	21.37	42.93
4	11340.00	56.4 PK	74.0	-17.6	1.21 V	16	6.92	49.48
5	11340.00	44.7 AV	54.0	-9.3	1.21 V	16	-4.78	49.48
6	#17010.00	62.1 PK	68.3	-6.2	1.11 V	245	5.58	56.52

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.

4.2.9 TEST RESULTS (MODE 2, WITH ANTENNA SET3)

BELOW 1GHz WORST-CASE DATA

802.11a

CHANNEL	TX Channel 132	**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	86.13	35.4 QP	40.0	-4.6	2.00 H	97	26.59	8.80
2	104.72	37.7 QP	43.5	-5.8	2.00 H	85	27.39	10.35
3	158.49	40.0 QP	43.5	-3.5	2.00 H	309	25.67	14.37
4	340.03	38.6 QP	46.0	-7.4	1.00 H	338	22.37	16.23
5	680.02	41.8 QP	46.0	-4.2	1.00 H	153	18.48	23.35
6	1000.00	36.9 QP	54.0	-17.1	1.00 H	283	8.35	28.54
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	113.01	37.6 QP	43.5	-5.9	1.00 V	30	26.20	11.43
2	148.07	36.9 QP	43.5	-6.6	1.00 V	256	22.40	14.50
3	172.34	36.0 QP	43.5	-7.5	1.50 V	360	22.47	13.57
4	250.03	37.8 QP	46.0	-8.3	1.50 V	230	24.45	13.30
5	339.91	37.5 QP	46.0	-8.6	1.00 V	310	21.22	16.23
6	680.02	40.5 QP	46.0	-5.5	1.50 V	360	17.14	23.35

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.

ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	1.00 H	224	14.32	41.98
2	5150.00	45.2 AV	54.0	-8.8	1.00 H	224	3.22	41.98
3	*5180.00	102.2 PK			1.00 H	228	60.13	42.07
4	*5180.00	92.0 AV			1.00 H	228	49.93	42.07
5	#10360.00	60.4 PK	68.3	-7.9	1.03 H	214	11.61	48.79
6	15540.00	62.4 PK	74.0	-11.6	1.04 H	204	8.03	54.37
7	15540.00	50.1 AV	54.0	-3.9	1.04 H	204	-4.27	54.37
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	5150.00	59.4 PK	74.0	-14.6	1.00 V	224	17.42	41.98
2	5150.00	48.3 AV	54.0	-5.7	1.00 V	224	6.32	41.98
3	*5180.00	112.4 PK			1.00 V	243	70.33	42.07
4	*5180.00	101.6 AV			1.00 V	243	59.53	42.07
5	#10360.00	58.3 PK	68.3	-10.0	1.11 V	219	9.51	48.79
6	15540.00	62.7 PK	74.0	-11.3	1.00 V	213	8.33	54.37
7	15540.00	49.4 AV	54.0	-4.6	1.00 V	213	-4.97	54.37

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 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	102.8 PK			1.00 H	234	60.67	42.13
2	*5200.00	92.4 AV			1.00 H	234	50.27	42.13
3	#10400.00	60.7 PK	68.3	-7.6	1.04 H	219	12.23	48.47
4	15600.00	62.6 PK	74.0	-11.4	1.05 H	203	8.22	54.38
5	15600.00	50.4 AV	54.0	-3.6	1.05 H	203	-3.98	54.38
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	112.6 PK			1.00 V	259	70.47	42.13
2	*5200.00	101.9 AV			1.00 V	259	59.77	42.13
3	#10400.00	58.6 PK	68.3	-9.7	1.13 V	240	10.13	48.47
4	15600.00	62.4 PK	74.0	-11.6	1.00 V	219	8.02	54.38
5	15600.00	49.2 AV	54.0	-4.8	1.00 V	219	-5.18	54.38

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	103.6 PK			1.00 H	257	61.42	42.18
2	*5240.00	92.6 AV			1.00 H	257	50.42	42.18
3	#10480.00	60.3 PK	68.3	-8.0	1.03 H	224	11.37	48.93
4	15720.00	62.7 PK	74.0	-11.3	1.04 H	206	8.77	53.93
5	15720.00	50.3 AV	54.0	-3.7	1.04 H	206	-3.63	53.93
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	113.4 PK			1.00 V	243	71.22	42.18
2	*5240.00	102.3 AV			1.00 V	243	60.12	42.18
3	#10480.00	58.4 PK	68.3	-9.9	1.13 V	241	9.47	48.93
4	15720.00	62.7 PK	74.0	-11.3	1.00 V	244	8.77	53.93
5	15720.00	49.4 AV	54.0	-4.6	1.00 V	244	-4.53	53.93

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	104.5 PK			1.00 H	243	62.30	42.20
2	*5260.00	93.1 AV			1.00 H	243	50.90	42.20
3	#10520.00	60.7 PK	68.3	-7.6	1.09 H	223	11.71	48.99
4	15780.00	62.9 PK	74.0	-11.1	1.03 H	211	8.78	54.12
5	15780.00	50.4 AV	54.0	-3.6	1.03 H	211	-3.72	54.12
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	*5260.00	113.7 PK			1.00 V	253	71.50	42.20
2	*5260.00	102.6 AV			1.00 V	253	60.40	42.20
3	#10520.00	58.2 PK	68.3	-10.1	1.12 V	253	9.21	48.99
4	15780.00	62.4 PK	74.0	-11.6	1.00 V	246	8.28	54.12
5	15780.00	49.7 AV	54.0	-4.3	1.00 V	246	-4.42	54.12

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 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	104.9 PK			1.00 H	256	62.65	42.25
2	*5300.00	93.4 AV			1.00 H	256	51.15	42.25
3	10600.00	57.3 PK	74.0	-16.7	1.04 H	226	8.49	48.81
4	10600.00	44.5 AV	54.0	-9.5	1.04 H	226	-4.31	48.81
5	15900.00	63.1 PK	74.0	-10.9	1.04 H	219	8.96	54.14
6	15900.00	50.3 AV	54.0	-3.7	1.04 H	219	-3.84	54.14
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	113.8 PK			1.00 V	247	71.55	42.25
2	*5300.00	102.8 AV			1.00 V	247	60.55	42.25
3	10600.00	58.6 PK	74.0	-15.4	1.13 V	249	9.79	48.81
4	10600.00	43.3 AV	54.0	-10.7	1.13 V	249	-5.51	48.81
5	15900.00	62.7 PK	74.0	-11.3	1.00 V	241	8.56	54.14
6	15900.00	49.6 AV	54.0	-4.4	1.00 V	241	-4.54	54.14

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	105.3 PK			1.00 H	247	63.04	42.26
2	*5320.00	93.6 AV			1.00 H	247	51.34	42.26
3	5350.00	57.6 PK	74.0	-16.4	1.00 H	249	15.32	42.28
4	5350.00	45.3 AV	54.0	-8.7	1.00 H	249	3.02	42.28
5	10640.00	57.6 PK	74.0	-16.4	1.00 H	236	8.65	48.95
6	10640.00	44.2 AV	54.0	-9.8	1.00 H	236	-4.75	48.95
7	15960.00	62.8 PK	74.0	-11.2	1.00 H	209	8.68	54.12
8	15960.00	49.8 AV	54.0	-4.2	1.00 H	209	-4.32	54.12
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	*5320.00	114.2 PK			1.00 V	254	71.94	42.26
2	*5320.00	102.9 AV			1.00 V	254	60.64	42.26
3	5350.00	58.4 PK	74.0	-15.6	1.00 V	256	16.12	42.28
4	5350.00	47.3 AV	54.0	-6.7	1.00 V	256	5.02	42.28
5	10640.00	58.3 PK	74.0	-15.7	1.14 V	243	9.35	48.95
6	10640.00	43.1 AV	54.0	-10.9	1.14 V	243	-5.85	48.95
7	15960.00	62.4 PK	74.0	-11.6	1.00 V	237	8.28	54.12
8	15960.00	49.3 AV	54.0	-4.7	1.00 V	237	-4.82	54.12

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.

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	55.7 PK	74.0	-18.3	1.00 H	259	13.19	42.51
2	5460.00	45.4 AV	54.0	-8.6	1.00 H	259	2.89	42.51
3	#5470.00	58.3 PK	68.3	-10.0	1.00 H	249	15.76	42.54
4	*5500.00	105.7 PK			1.00 H	256	63.06	42.64
5	*5500.00	94.3 AV			1.00 H	256	51.66	42.64
6	11000.00	57.3 PK	74.0	-16.7	1.00 H	243	7.92	49.38
7	11000.00	44.6 AV	54.0	-9.4	1.00 H	243	-4.78	49.38
8	#16500.00	63.4 PK	68.3	-4.9	1.00 H	243	7.85	55.55
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	58.6 PK	74.0	-15.4	1.00 V	243	16.09	42.51
2	5460.00	47.9 AV	54.0	-6.1	1.00 V	243	5.39	42.51
3	#5470.00	66.4 PK	68.3	-1.9	1.00 V	259	23.86	42.54
4	*5500.00	115.3 PK			1.00 V	243	72.66	42.64
5	*5500.00	103.6 AV			1.00 V	243	60.96	42.64
6	11000.00	58.4 PK	74.0	-15.6	1.16 V	259	9.02	49.38
7	11000.00	43.6 AV	54.0	-10.4	1.16 V	259	-5.78	49.38
8	#16500.00	63.4 PK	68.3	-4.9	1.00 V	251	7.85	55.55

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	106.2 PK			1.00 H	243	63.38	42.82
2	*5580.00	95.7 AV			1.00 H	243	52.88	42.82
3	11160.00	57.4 PK	74.0	-16.6	1.00 H	259	8.23	49.17
4	11160.00	44.8 AV	54.0	-9.2	1.00 H	259	-4.37	49.17
5	#16740.00	63.7 PK	68.3	-4.6	1.00 H	256	8.01	55.69
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	116.2 PK			1.00 V	256	73.38	42.82
2	*5580.00	104.3 AV			1.00 V	256	61.48	42.82
3	11160.00	58.6 PK	74.0	-15.4	1.15 V	273	9.43	49.17
4	11160.00	43.7 AV	54.0	-10.3	1.15 V	273	-5.47	49.17
5	#16740.00	63.6 PK	68.3	-4.7	1.00 V	259	7.91	55.69

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	106.4 PK			1.00 H	253	63.52	42.88
2	*5660.00	95.8 AV			1.00 H	253	52.92	42.88
3	11320.00	57.6 PK	74.0	-16.4	1.00 H	257	8.09	49.51
4	11320.00	45.3 AV	54.0	-8.7	1.00 H	257	-4.21	49.51
5	#16980.00	63.9 PK	68.3	-4.4	1.00 H	243	7.48	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	*5660.00	116.6 PK			1.00 V	243	73.72	42.88
2	*5660.00	104.5 AV			1.00 V	243	61.62	42.88
3	11320.00	58.7 PK	74.0	-15.3	1.14 V	263	9.19	49.51
4	11320.00	43.8 AV	54.0	-10.2	1.14 V	263	-5.71	49.51
5	#16980.00	64.3 PK	68.3	-4.0	1.00 V	264	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 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	103.5 PK			1.00 H	243	60.60	42.90
2	*5700.00	93.4 AV			1.00 H	243	50.50	42.90
3	#5725.00	57.4 PK	68.3	-10.9	1.00 H	256	14.47	42.93
4	11400.00	57.9 PK	74.0	-16.1	1.00 H	243	8.53	49.37
5	11400.00	45.6 AV	54.0	-8.4	1.00 H	243	-3.77	49.37
6	#17100.00	63.6 PK	68.3	-4.7	1.00 H	259	7.22	56.38
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	112.7 PK			1.00 V	254	69.80	42.90
2	*5700.00	102.4 AV			1.00 V	254	59.50	42.90
3	#5725.00	65.6 PK	68.3	-2.7	1.00 V	259	22.67	42.93
4	11400.00	57.3 PK	74.0	-16.7	1.13 V	259	7.93	49.37
5	11400.00	41.4 AV	54.0	-12.6	1.13 V	259	-7.97	49.37
6	#17100.00	64.6 PK	68.3	-3.7	1.00 V	243	8.22	56.38

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.

ABOVE 1GHz DATA

802.11n(20MHz)

CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.6 PK	74.0	-17.4	1.00 H	253	14.62	41.98
2	5150.00	45.3 AV	54.0	-8.7	1.00 H	253	3.32	41.98
3	*5180.00	103.2 PK			1.00 H	253	61.13	42.07
4	*5180.00	93.1 AV			1.00 H	253	51.03	42.07
5	#10360.00	57.8 PK	68.3	-10.5	1.13 H	259	9.01	48.79
6	15540.00	63.5 PK	74.0	-10.5	1.00 H	247	9.13	54.37
7	15540.00	49.5 AV	54.0	-4.5	1.00 H	247	-4.87	54.37
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	5150.00	59.7 PK	74.0	-14.3	1.00 V	263	17.72	41.98
2	5150.00	48.7 AV	54.0	-5.3	1.00 V	263	6.72	41.98
3	*5180.00	112.4 PK			1.00 V	263	70.33	42.07
4	*5180.00	102.1 AV			1.00 V	263	60.03	42.07
5	#10360.00	57.6 PK	68.3	-10.7	1.14 V	263	8.81	48.79
6	15540.00	63.7 PK	74.0	-10.3	1.00 V	259	9.33	54.37
7	15540.00	49.3 AV	54.0	-4.7	1.00 V	259	-5.07	54.37

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 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	103.5 PK			1.00 H	249	61.37	42.13
2	*5200.00	93.3 AV			1.00 H	249	51.17	42.13
3	#10400.00	57.6 PK	68.3	-10.7	1.12 H	263	9.13	48.47
4	15600.00	63.6 PK	74.0	-10.4	1.00 H	255	9.22	54.38
5	15600.00	49.3 AV	54.0	-4.7	1.00 H	255	-5.08	54.38
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	112.6 PK			1.00 V	259	70.47	42.13
2	*5200.00	102.2 AV			1.00 V	259	60.07	42.13
3	#10400.00	57.9 PK	68.3	-10.4	1.13 V	259	9.43	48.47
4	15600.00	63.3 PK	74.0	-10.7	1.00 V	243	8.92	54.38
5	15600.00	49.7 AV	54.0	-4.3	1.00 V	243	-4.68	54.38

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	253	61.52	42.18
2	*5240.00	93.5 AV			1.00 H	253	51.32	42.18
3	#10480.00	57.8 PK	68.3	-10.5	1.12 H	259	8.87	48.93
4	15720.00	63.7 PK	74.0	-10.3	1.00 H	243	9.77	53.93
5	15720.00	49.6 AV	54.0	-4.4	1.00 H	243	-4.33	53.93
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	112.8 PK			1.00 V	243	70.62	42.18
2	*5240.00	102.4 AV			1.00 V	243	60.22	42.18
3	#10480.00	58.3 PK	68.3	-10.0	1.12 V	243	9.37	48.93
4	15720.00	63.5 PK	74.0	-10.5	1.00 V	259	9.57	53.93
5	15720.00	50.3 AV	54.0	-3.7	1.00 V	259	-3.63	53.93

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	103.9 PK			1.00 H	249	61.70	42.20
2	*5260.00	93.7 AV			1.00 H	249	51.50	42.20
3	#10520.00	57.6 PK	68.3	-10.7	1.13 H	243	8.61	48.99
4	15780.00	66.4 PK	74.0	-7.6	1.00 H	259	12.28	54.12
5	15780.00	50.6 AV	54.0	-3.4	1.00 H	259	-3.52	54.12
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	*5260.00	112.9 PK			1.00 V	256	70.70	42.20
2	*5260.00	102.3 AV			1.00 V	256	60.10	42.20
3	#10520.00	58.6 PK	68.3	-9.7	1.13 V	259	9.61	48.99
4	15780.00	65.7 PK	74.0	-8.3	1.00 V	243	11.58	54.12
5	15780.00	50.6 AV	54.0	-3.4	1.00 V	243	-3.52	54.12

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 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	103.7 PK			1.00 H	253	61.45	42.25
2	*5300.00	93.6 AV			1.00 H	253	51.35	42.25
3	10600.00	57.5 PK	74.0	-16.5	1.12 H	249	8.69	48.81
4	10600.00	44.9 AV	54.0	-9.1	1.12 H	249	-3.91	48.81
5	15900.00	63.7 PK	74.0	-10.3	1.00 H	273	9.56	54.14
6	15900.00	50.4 AV	54.0	-3.6	1.00 H	273	-3.74	54.14
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	113.3 PK			1.00 V	249	71.05	42.25
2	*5300.00	102.5 AV			1.00 V	249	60.25	42.25
3	10600.00	57.9 PK	74.0	-16.1	1.12 V	243	9.09	48.81
4	10600.00	43.3 AV	54.0	-10.7	1.12 V	243	-5.51	48.81
5	15900.00	63.5 PK	74.0	-10.5	1.00 V	259	9.36	54.14
6	15900.00	50.4 AV	54.0	-3.6	1.00 V	259	-3.74	54.14

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	103.6 PK			1.00 H	273	61.34	42.26
2	*5320.00	93.5 AV			1.00 H	273	51.24	42.26
3	5350.00	58.3 PK	74.0	-15.7	1.00 H	269	16.02	42.28
4	5350.00	46.4 AV	54.0	-7.6	1.00 H	269	4.12	42.28
5	10640.00	57.7 PK	74.0	-16.3	1.13 H	253	8.75	48.95
6	10640.00	45.1 AV	54.0	-8.9	1.13 H	253	-3.85	48.95
7	15960.00	63.9 PK	74.0	-10.1	1.00 H	269	9.78	54.12
8	15960.00	50.7 AV	54.0	-3.3	1.00 H	269	-3.42	54.12
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	*5320.00	113.5 PK			1.00 V	253	71.24	42.26
2	*5320.00	102.6 AV			1.00 V	253	60.34	42.26
3	5350.00	60.3 PK	74.0	-13.7	1.00 V	273	18.02	42.28
4	5350.00	49.2 AV	54.0	-4.8	1.00 V	273	6.92	42.28
5	10640.00	58.2 PK	74.0	-15.8	1.14 V	253	9.25	48.95
6	10640.00	44.3 AV	54.0	-9.7	1.14 V	253	-4.65	48.95
7	15960.00	63.8 PK	74.0	-10.2	1.00 V	243	9.68	54.12
8	15960.00	50.6 AV	54.0	-3.4	1.00 V	243	-3.52	54.12

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.

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	55.6 PK	74.0	-18.4	1.00 H	247	13.09	42.51
2	5460.00	45.3 AV	54.0	-8.7	1.00 H	247	2.79	42.51
3	#5470.00	58.2 PK	68.3	-10.1	1.00 H	259	15.66	42.54
4	*5500.00	105.3 PK			1.00 H	264	62.66	42.64
5	*5500.00	95.3 AV			1.00 H	264	52.66	42.64
6	11000.00	57.9 PK	74.0	-16.1	1.14 H	249	8.52	49.38
7	11000.00	45.3 AV	54.0	-8.7	1.14 H	249	-4.08	49.38
8	#16500.00	64.7 PK	68.3	-3.6	1.00 H	243	9.15	55.55
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	58.3 PK	74.0	-15.7	1.00 V	254	15.79	42.51
2	5460.00	47.4 AV	54.0	-6.6	1.00 V	254	4.89	42.51
3	#5470.00	66.3 PK	68.3	-2.0	1.00 V	249	23.76	42.54
4	*5500.00	115.6 PK			1.00 V	247	72.96	42.64
5	*5500.00	104.3 AV			1.00 V	247	61.66	42.64
6	11000.00	58.4 PK	74.0	-15.6	1.13 V	273	9.02	49.38
7	11000.00	44.6 AV	54.0	-9.4	1.13 V	273	-4.78	49.38
8	#16500.00	64.5 PK	68.3	-3.8	1.00 V	253	8.95	55.55

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	106.3 PK			1.00 H	259	63.48	42.82
2	*5580.00	96.4 AV			1.00 H	259	53.58	42.82
3	11160.00	58.3 PK	74.0	-15.7	1.13 H	253	9.13	49.17
4	11160.00	45.9 AV	54.0	-8.1	1.13 H	253	-3.27	49.17
5	#16740.00	64.9 PK	68.3	-3.4	1.00 H	256	9.21	55.69
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	116.3 PK			1.00 V	254	73.48	42.82
2	*5580.00	105.6 AV			1.00 V	254	62.78	42.82
3	11160.00	59.3 PK	74.0	-14.7	1.14 V	269	10.13	49.17
4	11160.00	44.9 AV	54.0	-9.1	1.14 V	269	-4.27	49.17
5	#16740.00	64.6 PK	68.3	-3.7	1.00 V	249	8.91	55.69

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	107.4 PK			1.00 H	243	64.52	42.88
2	*5660.00	97.4 AV			1.00 H	243	54.52	42.88
3	11320.00	58.4 PK	74.0	-15.6	1.14 H	269	8.89	49.51
4	11320.00	45.8 AV	54.0	-8.2	1.14 H	269	-3.71	49.51
5	#16980.00	64.6 PK	68.3	-3.7	1.00 H	273	8.18	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	*5660.00	116.9 PK			1.00 V	243	74.02	42.88
2	*5660.00	106.3 AV			1.00 V	243	63.42	42.88
3	11320.00	60.4 PK	74.0	-13.6	1.13 V	274	10.89	49.51
4	11320.00	45.3 AV	54.0	-8.7	1.13 V	274	-4.21	49.51
5	#16980.00	64.5 PK	68.3	-3.8	1.00 V	253	8.08	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 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	103.6 PK			1.00 H	253	60.70	42.90
2	*5700.00	93.4 AV			1.00 H	253	50.50	42.90
3	#5725.00	57.4 PK	68.3	-10.9	1.00 H	249	14.47	42.93
4	11400.00	58.6 PK	74.0	-15.4	1.13 H	253	9.23	49.37
5	11400.00	45.9 AV	54.0	-8.1	1.13 H	253	-3.47	49.37
6	#17100.00	65.3 PK	68.3	-3.0	1.00 H	259	8.92	56.38
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	112.4 PK			1.00 V	256	69.50	42.90
2	*5700.00	102.3 AV			1.00 V	256	59.40	42.90
3	#5725.00	66.3 PK	68.3	-2.0	1.00 V	246	23.37	42.93
4	11400.00	60.7 PK	74.0	-13.3	1.12 V	269	11.33	49.37
5	11400.00	45.6 AV	54.0	-8.4	1.12 V	269	-3.77	49.37
6	#17100.00	64.3 PK	68.3	-4.0	1.00 V	249	7.92	56.38

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 (40MHz)

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	57.4 PK	74.0	-16.6	1.00 H	243	15.42	41.98
2	5150.00	46.3 AV	54.0	-7.7	1.00 H	243	4.32	41.98
3	*5190.00	100.4 PK			1.00 H	263	58.30	42.10
4	*5190.00	90.3 AV			1.00 H	263	48.20	42.10
5	#10380.00	57.3 PK	68.3	-11.0	1.12 H	249	8.67	48.63
6	15570.00	64.7 PK	74.0	-9.3	1.00 H	243	10.32	54.38
7	15570.00	49.6 AV	54.0	-4.4	1.00 H	243	-4.78	54.38
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	62.4 PK	74.0	-11.6	1.00 V	259	20.42	41.98
2	5150.00	51.7 AV	54.0	-2.3	1.00 V	259	9.72	41.98
3	*5190.00	109.3 PK			1.00 V	264	67.20	42.10
4	*5190.00	99.4 AV			1.00 V	264	57.30	42.10
5	#10380.00	56.4 PK	68.3	-11.9	1.14 V	253	7.77	48.63
6	15570.00	64.4 PK	74.0	-9.6	1.00 V	254	10.02	54.38
7	15570.00	49.3 AV	54.0	-4.7	1.00 V	254	-5.08	54.38

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	100.7 PK			1.00 H	259	58.53	42.17
2	*5230.00	90.5 AV			1.00 H	259	48.33	42.17
3	#10460.00	56.3 PK	68.3	-12.0	1.13 H	254	7.49	48.81
4	15690.00	65.3 PK	74.0	-8.7	1.00 H	251	11.39	53.91
5	15690.00	49.3 AV	54.0	-4.7	1.00 H	251	-4.61	53.91
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	109.6 PK			1.00 V	259	67.43	42.17
2	*5230.00	99.5 AV			1.00 V	259	57.33	42.17
3	#10460.00	56.7 PK	68.3	-11.6	1.13 V	249	7.89	48.81
4	15690.00	64.7 PK	74.0	-9.3	1.00 V	243	10.79	53.91
5	15690.00	49.6 AV	54.0	-4.4	1.00 V	243	-4.31	53.91

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	100.9 PK			1.00 H	243	58.69	42.21
2	*5270.00	90.8 AV			1.00 H	243	48.59	42.21
3	#10540.00	56.7 PK	68.3	-11.6	1.12 H	259	7.75	48.95
4	15810.00	65.7 PK	74.0	-8.3	1.00 H	259	11.51	54.19
5	15810.00	50.4 AV	54.0	-3.6	1.00 H	259	-3.79	54.19
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	109.9 PK			1.00 V	263	67.69	42.21
2	*5270.00	99.7 AV			1.00 V	263	57.49	42.21
3	#10540.00	56.9 PK	68.3	-11.4	1.12 V	253	7.95	48.95
4	15810.00	65.3 PK	74.0	-8.7	1.00 V	249	11.11	54.19
5	15810.00	50.6 AV	54.0	-3.4	1.00 V	249	-3.59	54.19

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	100.7 PK			1.00 H	259	58.44	42.26
2	*5310.00	90.4 AV			1.00 H	259	48.14	42.26
3	5350.00	58.3 PK	74.0	-15.7	1.00 H	249	16.02	42.28
4	5350.00	47.4 AV	54.0	-6.6	1.00 H	249	5.12	42.28
5	10620.00	57.2 PK	74.0	-16.8	1.14 H	243	8.32	48.88
6	10620.00	43.4 AV	54.0	-10.6	1.14 H	243	-5.48	48.88
7	15930.00	65.6 PK	74.0	-8.4	1.00 H	277	11.47	54.13
8	15930.00	50.3 AV	54.0	-3.7	1.00 H	277	-3.83	54.13
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	109.3 PK			1.00 V	253	67.04	42.26
2	*5310.00	99.4 AV			1.00 V	253	57.14	42.26
3	5350.00	63.9 PK	74.0	-10.1	1.00 V	269	21.62	42.28
4	5350.00	52.4 AV	54.0	-1.6	1.00 V	269	10.12	42.28
5	10620.00	57.4 PK	74.0	-16.6	1.14 V	256	8.52	48.88
6	10620.00	44.3 AV	54.0	-9.7	1.14 V	256	-4.58	48.88
7	15930.00	65.1 PK	74.0	-8.9	1.00 V	251	10.97	54.13
8	15930.00	50.4 AV	54.0	-3.6	1.00 V	251	-3.73	54.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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	56.2 PK	74.0	-17.8	1.00 H	244	13.69	42.51
2	5460.00	45.3 AV	54.0	-8.7	1.00 H	244	2.79	42.51
3	#5470.00	57.4 PK	68.3	-10.9	1.00 H	259	14.86	42.54
4	*5510.00	99.4 PK			1.00 H	243	56.74	42.66
5	*5510.00	89.6 AV			1.00 H	243	46.94	42.66
6	11020.00	57.4 PK	74.0	-16.6	1.13 H	257	8.06	49.34
7	11020.00	44.9 AV	54.0	-9.1	1.13 H	257	-4.44	49.34
8	#16530.00	65.9 PK	68.3	-2.4	1.00 H	269	10.06	55.84
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	5460.00	58.4 PK	74.0	-15.6	1.00 V	249	15.89	42.51
2	5460.00	47.3 AV	54.0	-6.7	1.00 V	249	4.79	42.51
3	#5470.00	66.7 PK	68.3	-1.6	1.00 V	263	24.16	42.54
4	*5510.00	108.4 PK			1.00 V	249	65.74	42.66
5	*5510.00	98.3 AV			1.00 V	249	55.64	42.66
6	11020.00	57.6 PK	74.0	-16.4	1.13 V	249	8.26	49.34
7	11020.00	44.6 AV	54.0	-9.4	1.13 V	249	-4.74	49.34
8	#16530.00	65.6 PK	68.3	-2.7	1.00 V	243	9.76	55.84

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 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	101.3 PK			1.00 H	231	58.55	42.75
2	*5550.00	91.4 AV			1.00 H	231	48.65	42.75
3	11100.00	57.6 PK	74.0	-16.4	1.12 H	254	8.41	49.19
4	11100.00	45.3 AV	54.0	-8.7	1.12 H	254	-3.89	49.19
5	#16650.00	65.4 PK	68.3	-2.9	1.00 H	255	9.28	56.12
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	111.6 PK			1.00 V	253	68.85	42.75
2	*5550.00	101.4 AV			1.00 V	253	58.65	42.75
3	11100.00	57.2 PK	74.0	-16.8	1.12 V	254	8.01	49.19
4	11100.00	44.3 AV	54.0	-9.7	1.12 V	254	-4.89	49.19
5	#16650.00	65.9 PK	68.3	-2.4	1.00 V	255	9.78	56.12

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	100.6 PK			1.00 H	277	57.71	42.89
2	*5670.00	90.4 AV			1.00 H	277	47.51	42.89
3	#5725.00	58.2 PK	68.3	-10.1	1.00 H	286	15.27	42.93
4	11340.00	57.9 PK	74.0	-16.1	1.12 H	273	8.42	49.48
5	11340.00	45.6 AV	54.0	-8.4	1.12 H	273	-3.88	49.48
6	#17010.00	65.6 PK	68.3	-2.7	1.00 H	249	9.08	56.52
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	110.6 PK			1.00 V	249	67.71	42.89
2	*5670.00	100.4 AV			1.00 V	249	57.51	42.89
3	#5725.00	65.6 PK	68.3	-2.7	1.00 V	250	22.67	42.93
4	11340.00	57.6 PK	74.0	-16.4	1.14 V	263	8.12	49.48
5	11340.00	44.9 AV	54.0	-9.1	1.14 V	263	-4.58	49.48
6	#17010.00	66.3 PK	68.3	-2.0	1.00 V	249	9.78	56.52

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.

4.3 TRANSMIT POWER MEASUREMENT

4.3.1 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.

4.3.2 TEST INSTRUMENTS

FOR POWER OUTPUT MEASUREMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Peak Power Meter	ML2495A	0824006	May 04, 2011	May 03, 2012
Power Sensor	MA2411B	0738172	May 03, 2011	May 02, 2012

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 : Apr. 17, 2012

FOR 26dB OCCUPIED BANDWIDTH

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer	E4446A	MY48250254	July 12, 2011	July 11, 2012

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 : Apr. 17, 2012

4.3.3 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

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.

FOR 26dB BANDWIDTH

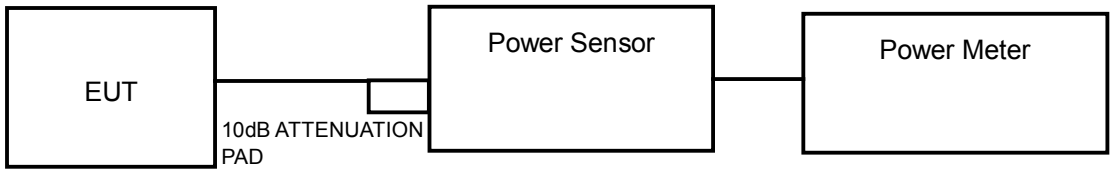
1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.4 DEVIATION FROM TEST STANDARD

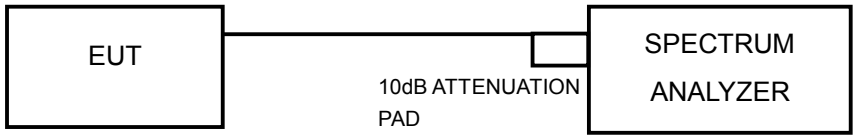
No deviation

4.3.5 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB OCCUPIED BANDWIDTH



4.3.6 EUT OPERATING CONDITIONS

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

4.3.7 TEST RESULTS

POWER OUTPUT

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	10.90	10.60	23.785	13.76	17	PASS
40	5200	11.20	10.50	24.403	13.87	17	PASS
48	5240	11.40	10.80	25.827	14.12	17	PASS
52	5260	11.20	10.80	25.206	14.02	24	PASS
60	5300	11.40	11.20	26.987	14.31	24	PASS
64	5320	11.90	11.80	30.624	14.86	24	PASS
100	5500	14.10	13.30	47.084	16.73	24	PASS
116	5580	14.90	13.90	55.450	17.44	24	PASS
132	5660	15.10	14.80	62.559	17.96	24	PASS
140	5700	10.10	10.30	20.948	13.21	24	PASS

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi)=3.81
The effective legacy gain is 3.81dBi, therefore the limit doesn't reduce.

POWER OUTPUT

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	11.00	10.40	23.554	13.72	17	PASS
40	5200	11.10	10.40	23.847	13.77	17	PASS
48	5240	11.30	10.80	25.513	14.07	17	PASS
52	5260	10.90	11.40	26.107	14.17	24	PASS
60	5300	11.40	11.50	27.929	14.46	24	PASS
64	5320	11.70	11.80	29.927	14.76	24	PASS
100	5500	13.90	13.70	47.989	16.81	24	PASS
116	5580	15.00	13.90	56.170	17.50	24	PASS
132	5660	14.00	13.80	49.107	16.91	24	PASS
140	5700	12.10	12.60	34.415	15.37	24	PASS

POWER OUTPUT

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	10.80	10.90	24.326	13.86	17	PASS
46	5230	10.70	10.80	23.772	13.76	17	PASS
54	5270	11.00	10.80	24.612	13.91	24	PASS
62	5310	11.30	11.10	26.372	14.21	24	PASS
102	5510	11.00	10.50	23.809	13.77	24	PASS
110	5550	13.90	15.20	57.660	17.61	24	PASS
134	5670	13.50	13.20	43.280	16.36	24	PASS

26dB OCCUPIED BANDWIDTH

802.11a OFDM

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
36	5180	25.40	24.78
40	5200	24.56	23.97
48	5240	25.05	25.10
52	5260	25.09	24.79
60	5300	24.94	24.53
64	5320	25.28	25.64
100	5500	25.49	24.80
116	5580	25.82	25.09
132	5660	26.43	25.03
140	5700	26.29	25.34

26dB OCCUPIED BANDWIDTH
802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
36	5180	25.96	26.33
40	5200	25.59	26.63
48	5240	26.07	25.93
52	5260	26.08	25.17
60	5300	26.67	25.62
64	5320	25.93	26.74
100	5500	26.50	25.57
116	5580	26.41	26.30
132	5660	27.05	26.80
140	5700	26.41	26.30

26dB OCCUPIED BANDWIDTH
802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
38	5190	55.33	53.07
46	5230	54.58	52.74
54	5270	53.86	52.12
62	5310	54.34	52.84
102	5510	53.54	52.21
110	5550	69.71	53.62
134	5670	71.44	67.89

4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Frequency Band	Limit
5.15 ~ 5.25GHz	4dBm
5.25 ~ 5.35GHz	11dBm
5.47 – 5.725GHz	11dBm
5.725 ~ 5.825GHz	17dBm

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer	E4446A	MY48250254	July 12, 2011	July 11, 2012

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 : Apr. 17, 2012

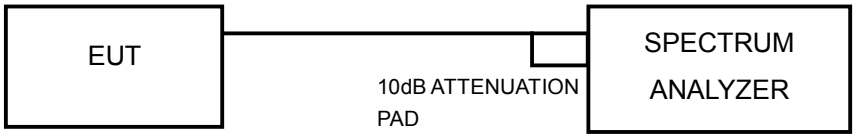
4.4.3 TEST PROCEDURES

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Sweep time = auto, trigger set to “free run”.
4) Trace average at least 100 traces in power averaging mode.
5) Record the max value

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6

4.4.7 TEST RESULTS

802.11a

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN (0)	CHAIN (1)			
36	5180	-1.31	-1.54	1.56	4	PASS
40	5200	-1.17	-1.45	1.67	4	PASS
48	5240	-0.62	-0.92	2.21	4	PASS
52	5260	-0.40	-0.80	2.39	11	PASS
60	5300	-0.29	-0.17	2.78	11	PASS
64	5320	-0.12	0.10	2.95	11	PASS
100	5500	2.78	2.11	5.45	11	PASS
116	5580	3.33	2.40	5.89	11	PASS
132	5660	2.30	2.10	5.19	11	PASS
140	5700	-2.07	-1.59	1.15	11	PASS

Note: Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi)=3.81
The effective legacy gain is 3.81dBi, therefore the limit doesn't reduce.

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN (0)	CHAIN (1)			
36	5180	-1.47	-1.74	1.40	4	PASS
40	5200	-1.31	-1.54	1.57	4	PASS
48	5240	-0.85	-1.14	2.00	4	PASS
52	5260	-0.60	-0.84	2.27	11	PASS
60	5300	-0.45	-0.46	2.52	11	PASS
64	5320	-0.51	-0.17	2.62	11	PASS
100	5500	1.63	1.13	4.38	11	PASS
116	5580	3.03	2.07	5.53	11	PASS
132	5660	2.14	1.67	4.90	11	PASS
140	5700	-2.65	-1.82	0.78	11	PASS

Note: Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PSD (DBM)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN (0)	CHAIN (1)			
38	5190	-4.31	-4.43	-1.36	4	PASS
46	5230	-4.06	-4.06	-1.13	4	PASS
54	5270	-3.59	-3.47	-0.54	11	PASS
62	5310	-3.52	-3.53	-0.57	11	PASS
102	5510	-3.86	-4.32	-1.11	11	PASS
110	5550	0.38	-0.72	2.86	11	PASS
134	5670	-1.68	-1.75	1.28	11	PASS

Note: Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer

4.5 PEAK POWER EXCURSION MEASUREMENT

4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer	E4446A	MY48250254	July 12, 2011	July 11, 2012

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 : Apr. 17, 2012

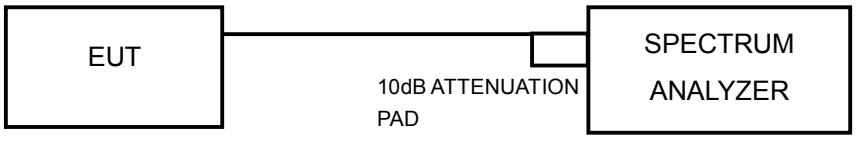
4.5.3 TEST PROCEDURE

1) Set RBW = 1 MHz, VBW ≥ 3 MHz, Detector = peak.
2) Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
3) Use the peak search function to find the peak of the spectrum.
4) Measure the PPSD.
5) Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

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

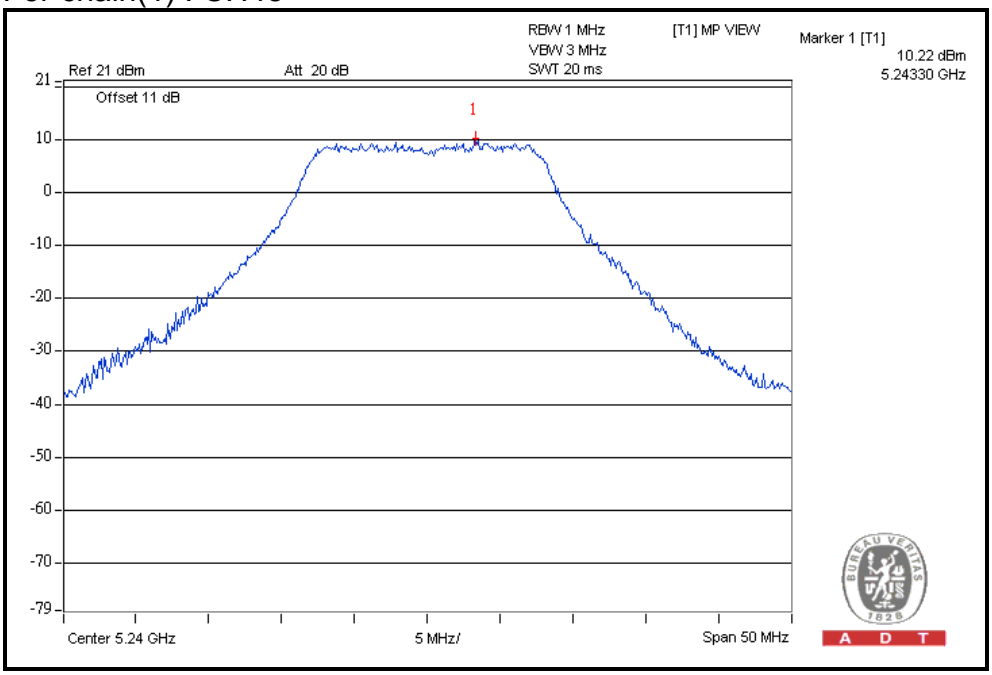
4.5.7 TEST RESULTS

802.11a

CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)		PPSD (dBm)		PEAK EXCURSION (dB)		LIMIT (dB)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
36	5180	8.56	9.10	-1.31	-1.54	9.87	10.64	13	PASS
40	5200	8.57	9.52	-1.17	-1.45	9.74	10.97	13	PASS
48	5240	9.17	10.22	-0.62	-0.92	9.79	11.14	13	PASS
52	5260	9.55	10.54	-0.40	-0.80	9.95	11.34	13	PASS
60	5300	9.88	10.91	-0.29	-0.17	10.17	11.08	13	PASS
64	5320	9.99	10.63	-0.12	0.10	10.11	10.53	13	PASS
100	5500	12.51	12.66	2.78	2.11	9.73	10.55	13	PASS
116	5580	13.22	13.24	3.33	2.40	9.89	10.84	13	PASS
132	5660	12.34	12.88	2.30	2.10	10.04	10.78	13	PASS
140	5700	7.84	8.64	-2.07	-1.59	9.91	10.23	13	PASS

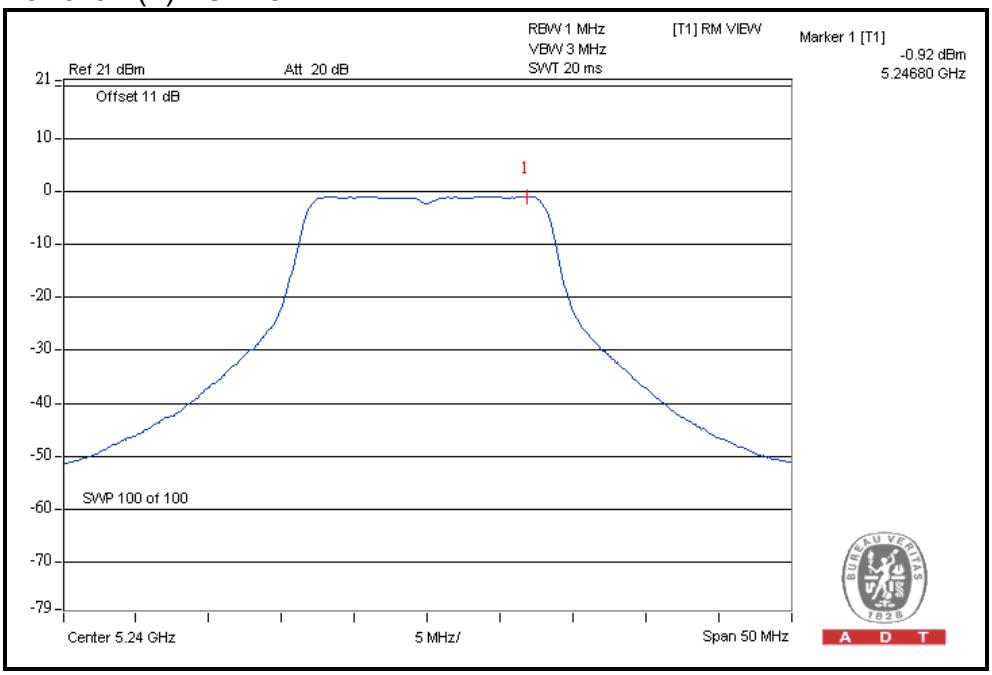
PEAK VALUE

For chain(1) : CH48



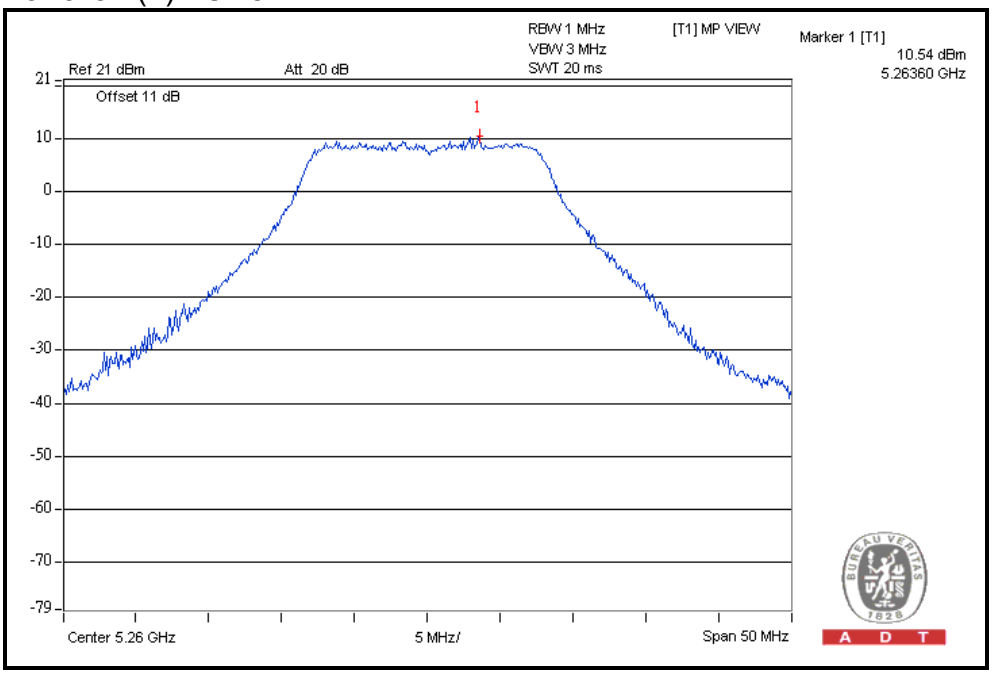
PPSD

For chain(1) : CH48



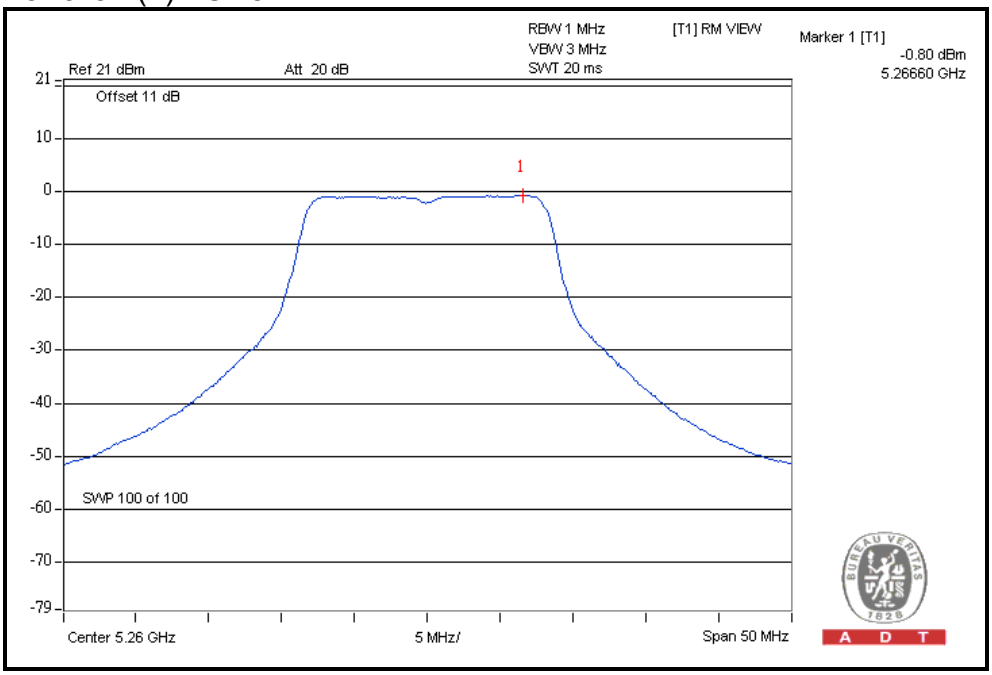
PEAK VALUE

For chain(1) : CH52



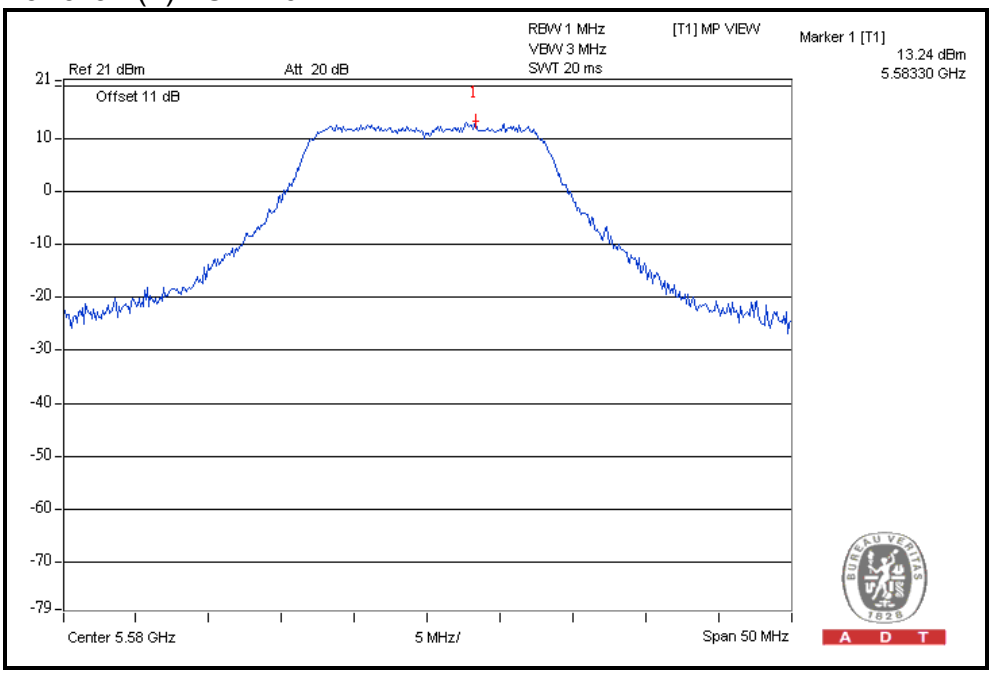
PPSD

For chain(1) : CH52



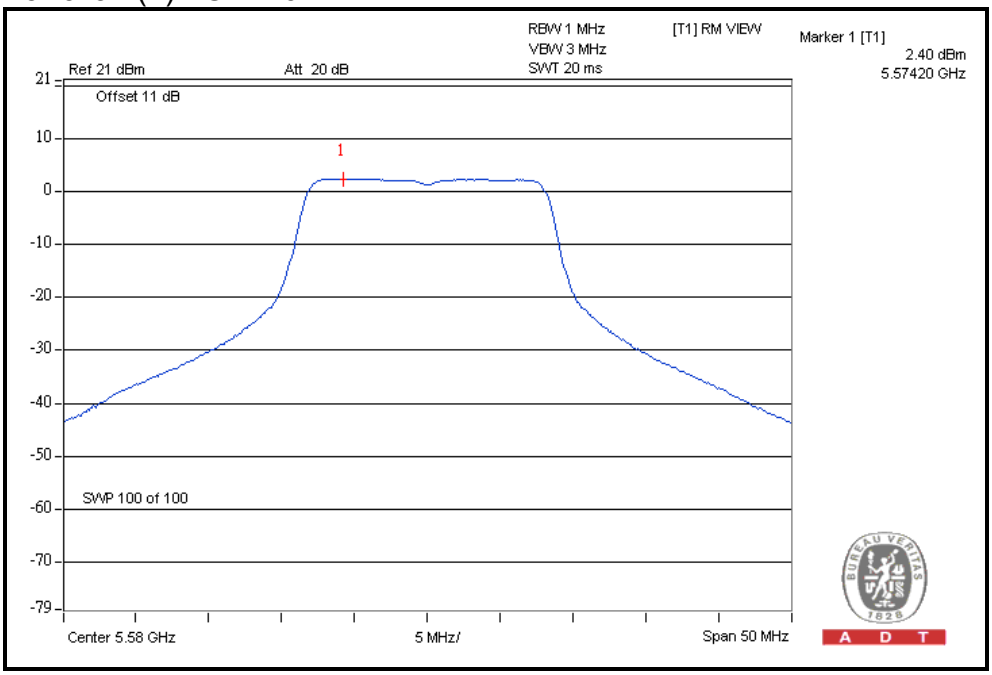
PEAK VALUE

For chain(1) : CH116



PPSD

For chain(1) : CH116

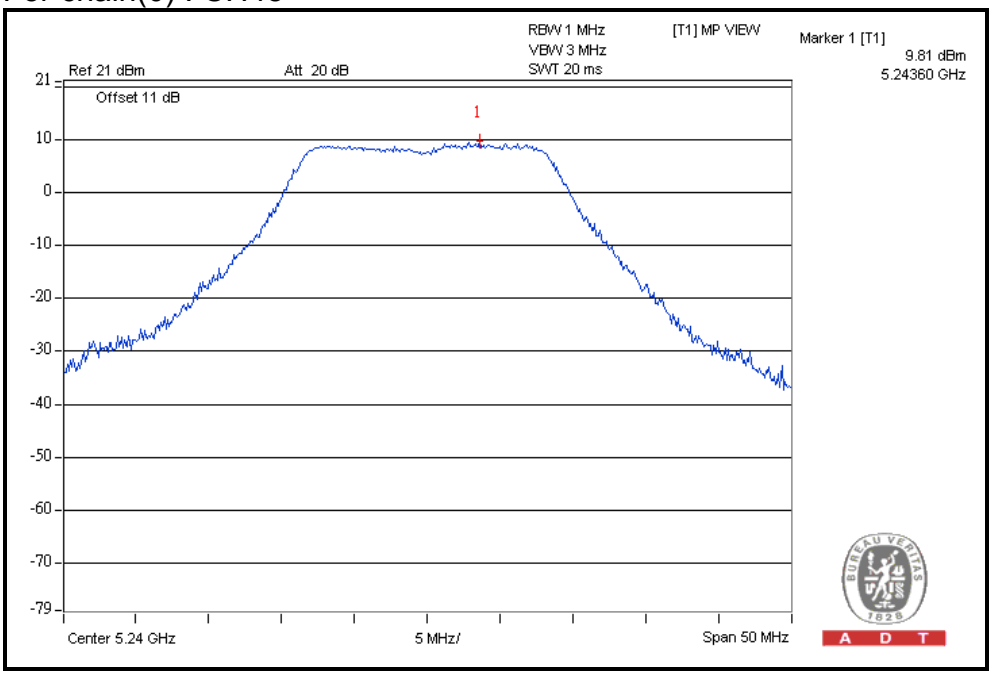


802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)		PPSD (dBm)		PEAK EXCURSION (dB)		LIMIT (dB)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
36	5180	8.78	8.12	-1.47	-1.74	10.25	9.86	13	PASS
40	5200	8.82	8.64	-1.31	-1.54	10.13	10.18	13	PASS
48	5240	9.81	8.85	-0.85	-1.14	10.66	9.99	13	PASS
52	5260	9.69	9.10	-0.60	-0.84	10.29	9.94	13	PASS
60	5300	9.81	9.55	-0.45	-0.46	10.26	10.01	13	PASS
64	5320	9.98	9.96	-0.51	-0.17	10.49	10.13	13	PASS
100	5500	12.80	11.04	1.63	1.13	11.17	9.91	13	PASS
116	5580	13.11	12.39	3.03	2.07	10.08	10.32	13	PASS
132	5660	12.30	11.38	2.14	1.67	10.16	9.71	13	PASS
140	5700	7.53	8.45	-2.65	-1.82	10.18	10.27	13	PASS

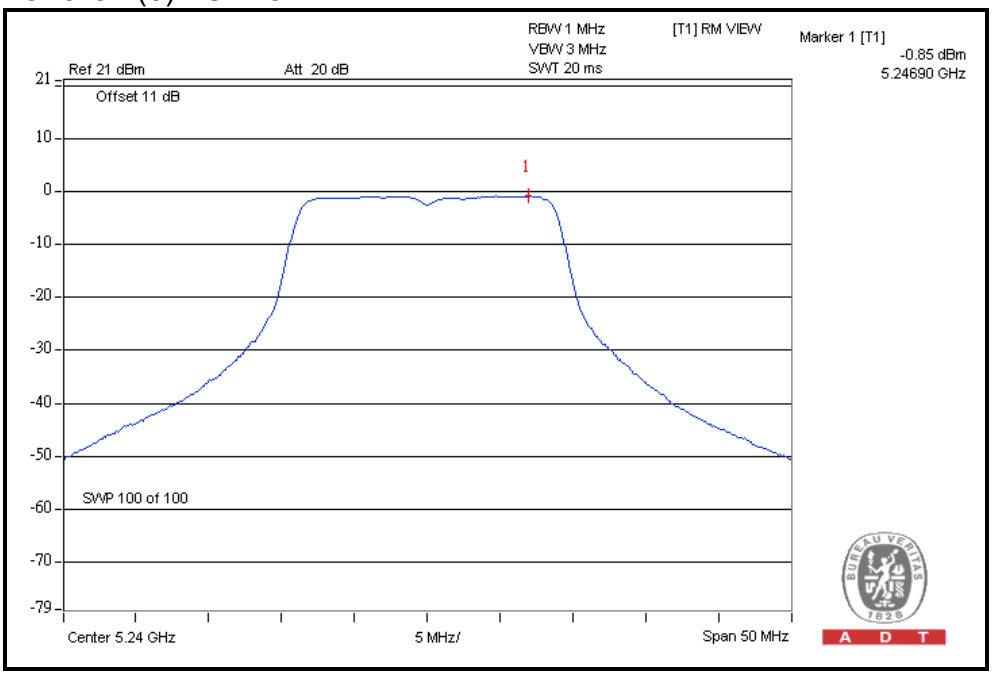
PEAK VALUE

For chain(0) : CH48



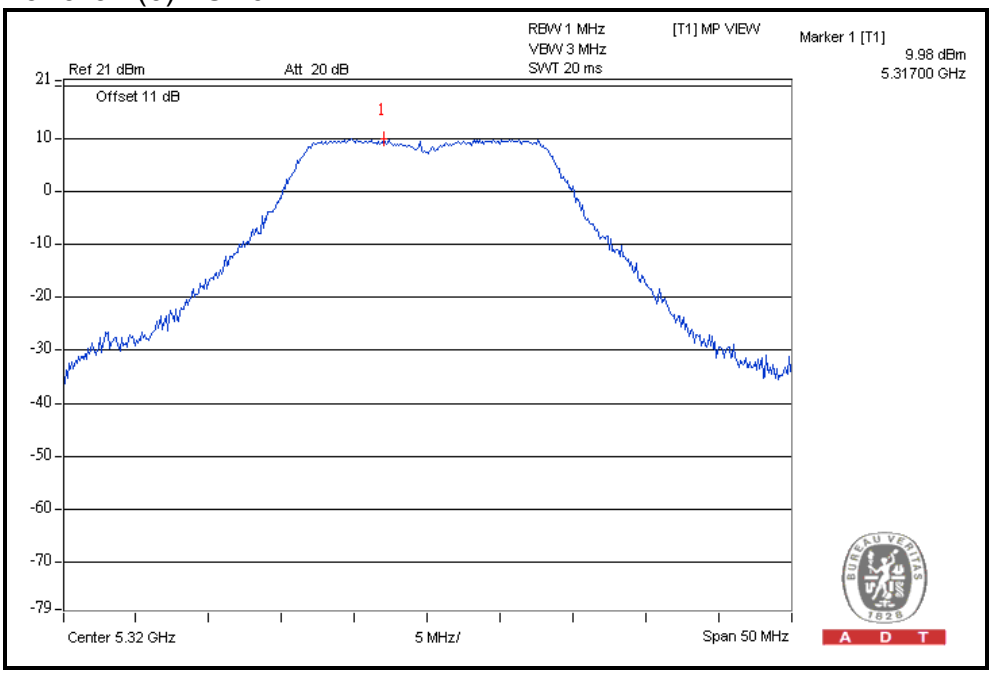
PPSD

For chain(0) : CH48



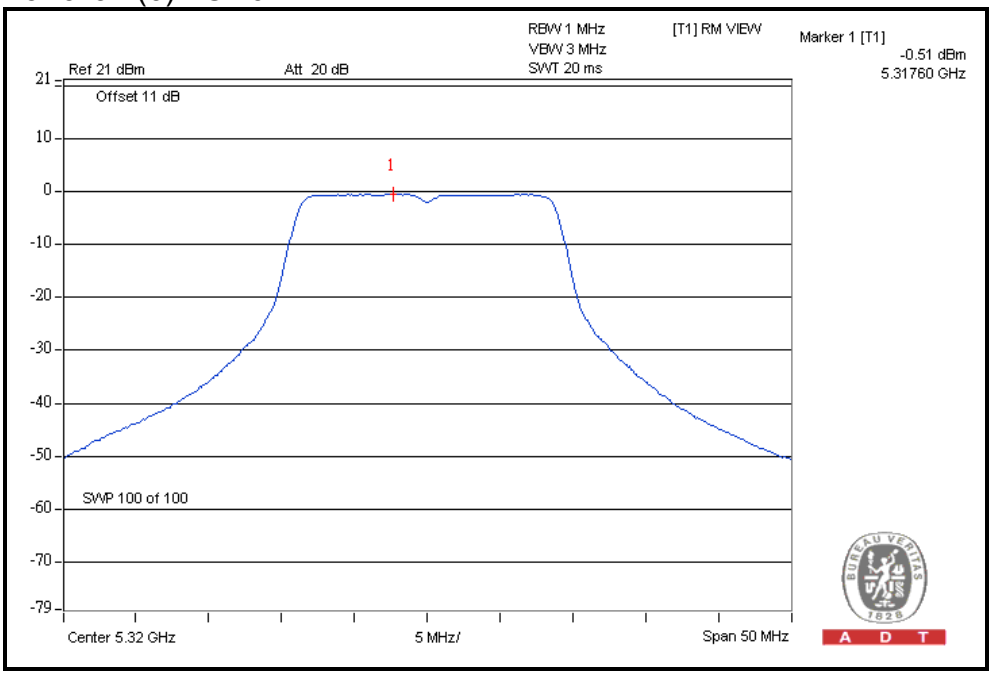
PEAK VALUE

For chain(0) : CH64



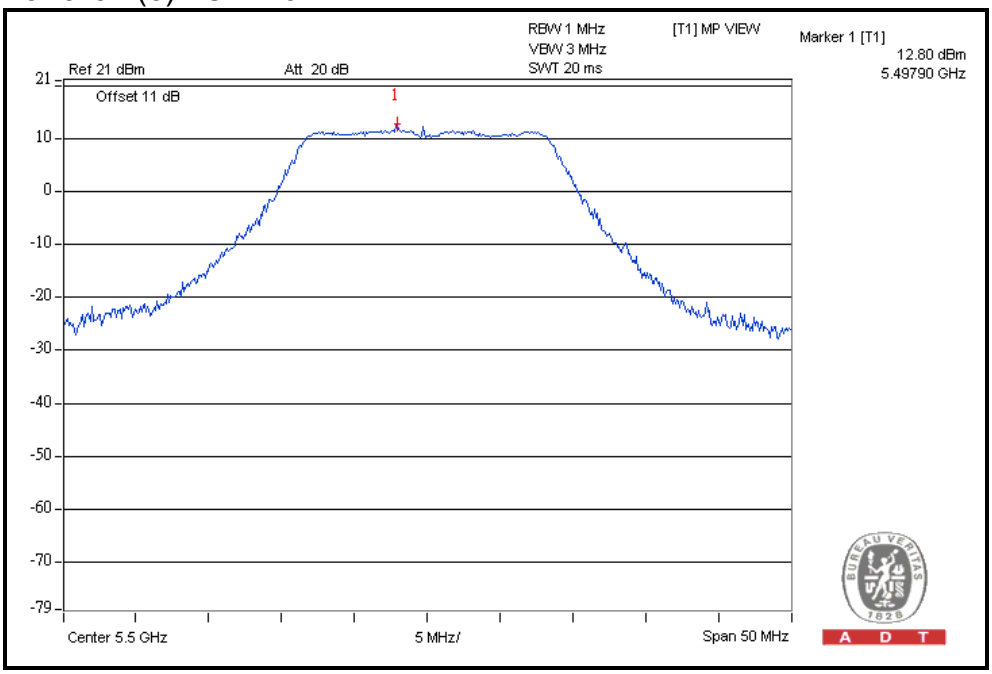
PPSD

For chain(0) : CH64



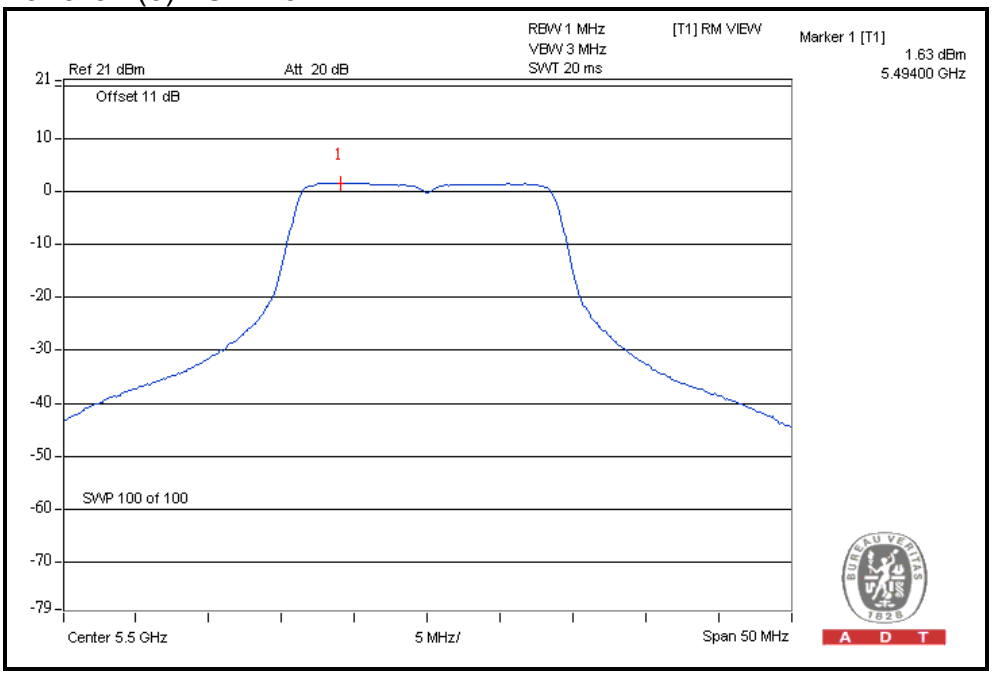
PEAK VALUE

For chain(0) : CH110



PPSD

For chain(0) : CH110

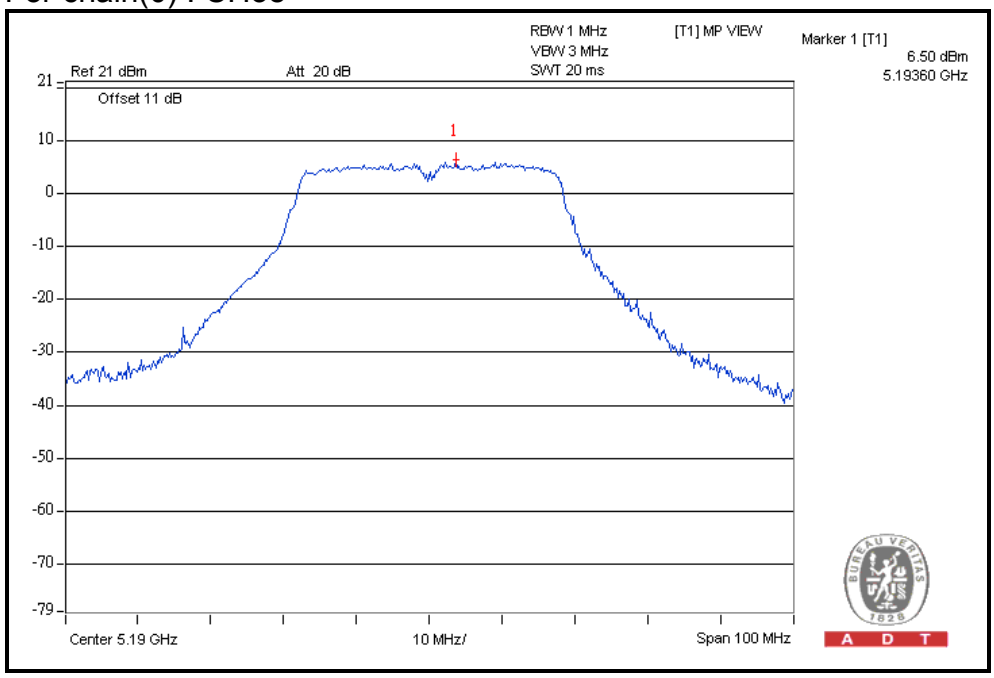


802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)		PPSD (dBm)		PEAK EXCURSION (dB)		LIMIT (dB)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
38	5190	6.50	5.77	-4.31	-4.43	10.81	10.20	13	PASS
46	5230	6.21	5.96	-4.06	-4.06	10.27	10.02	13	PASS
54	5270	7.37	6.53	-3.59	-3.47	10.96	10.00	13	PASS
62	5310	6.95	6.63	-3.52	-3.53	10.47	10.16	13	PASS
102	5510	6.43	5.80	-3.86	-4.32	10.29	10.12	13	PASS
110	5550	11.10	9.77	0.38	-0.72	10.72	10.49	13	PASS
134	5670	8.70	8.74	-1.68	-1.75	10.38	10.49	13	PASS

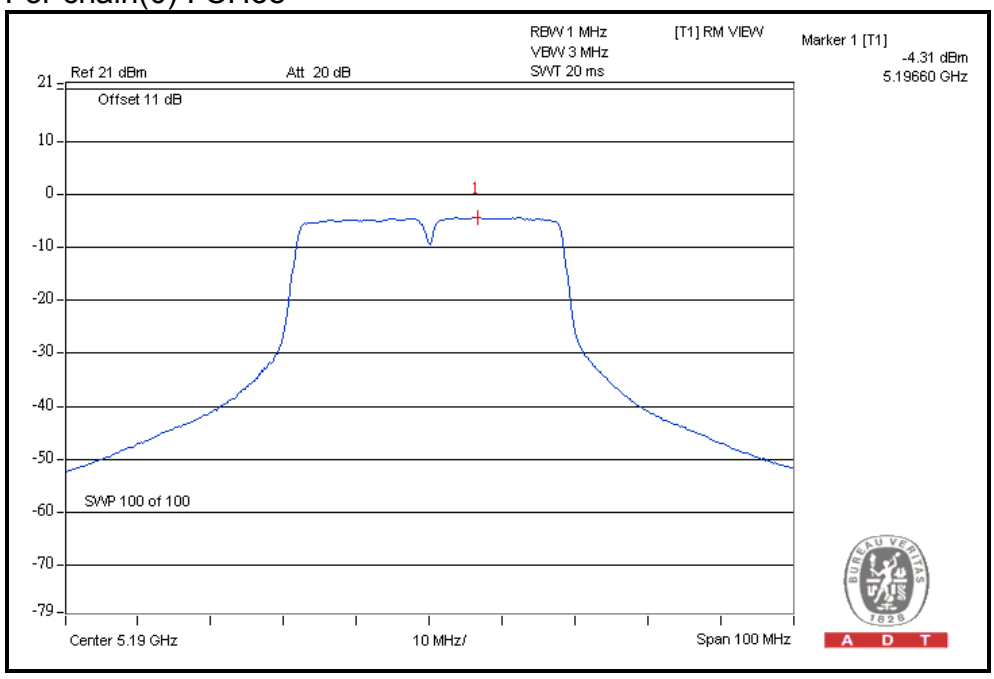
PEAK VALUE

For chain(0) : CH38



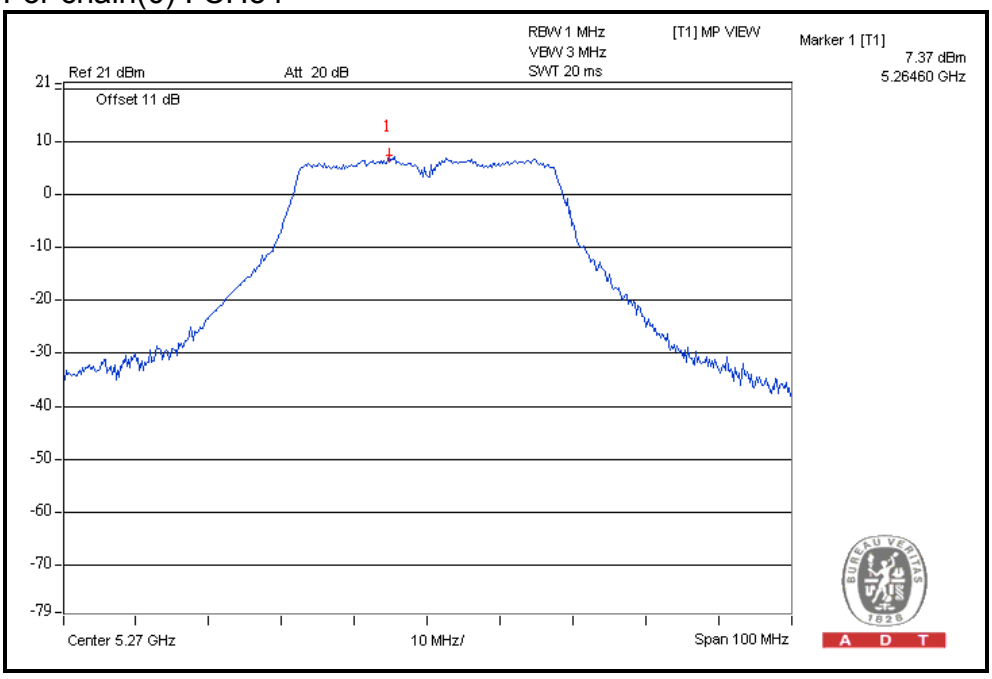
PPSD

For chain(0) : CH38



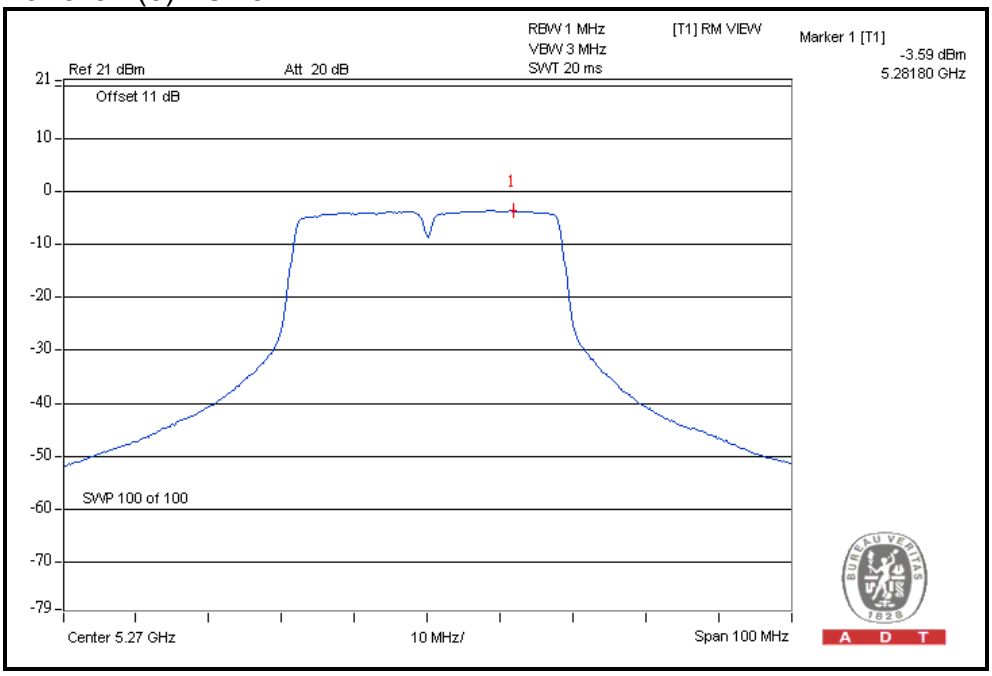
PEAK VALUE

For chain(0) : CH54



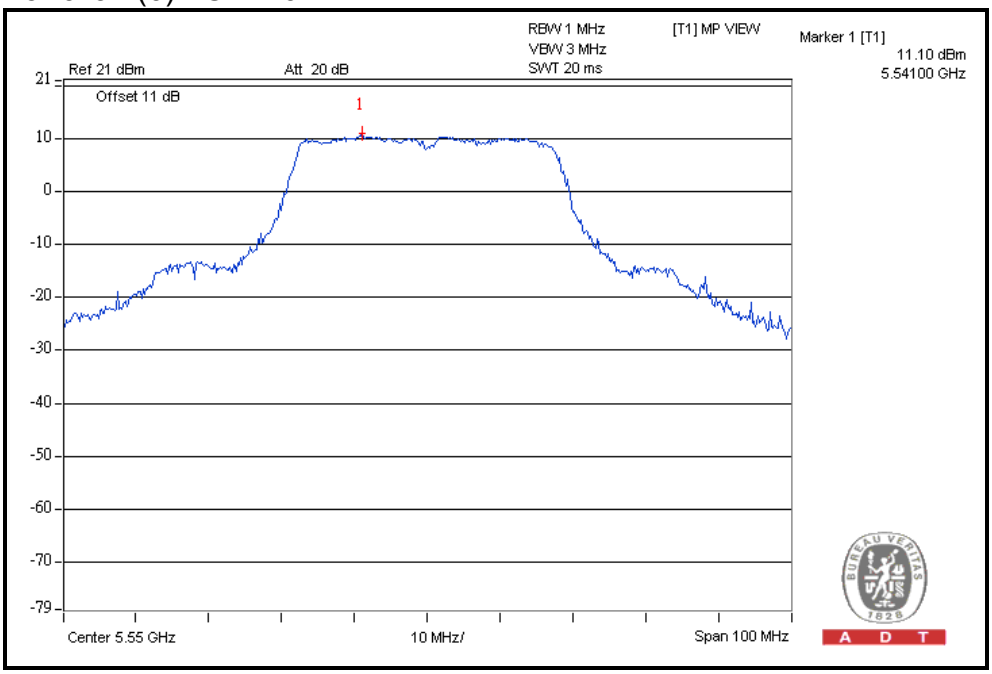
PPSD

For chain(0) : CH54



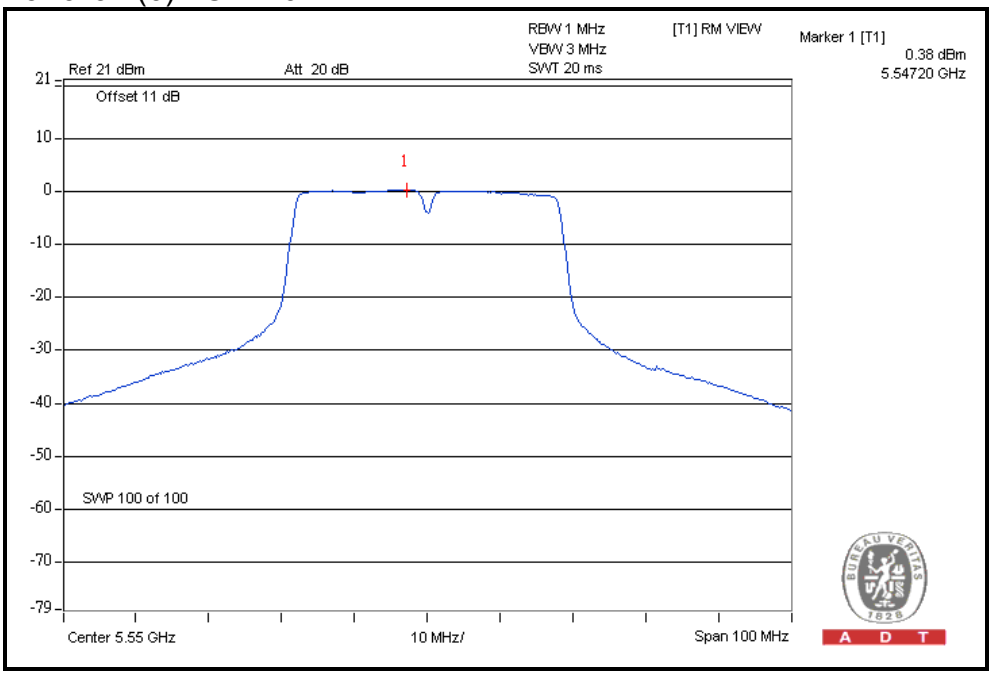
PEAK VALUE

For chain(0) : CH110



PPSD

For chain(0) : CH110



4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S Spectrum Analyzer	FSP 40	100060	May 11, 2011	May 10, 2012

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 : Apr. 17, 2012

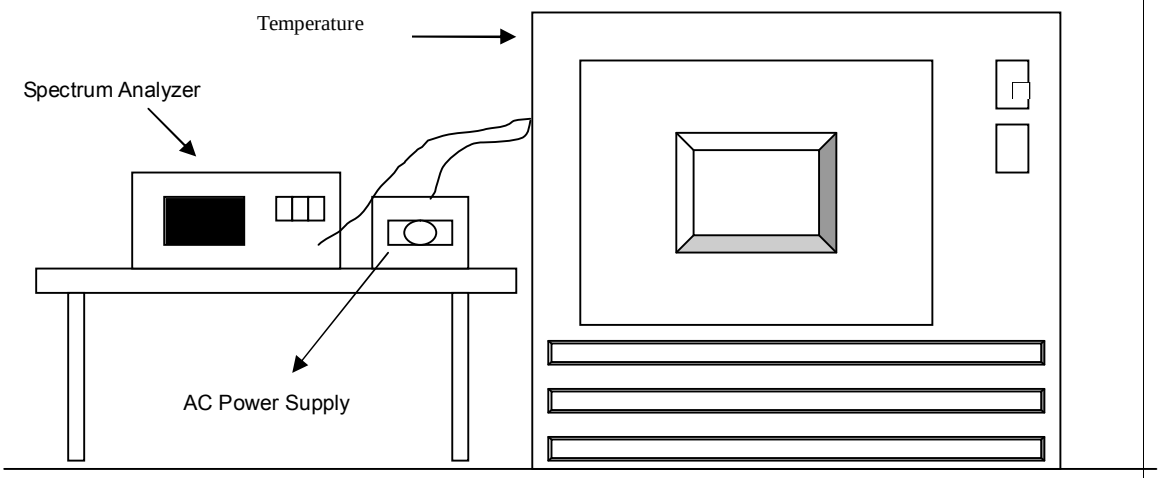
4.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 TEST RESULTS

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	ppm	(MHz)	ppm	(MHz)	ppm	(MHz)	ppm
50	120	5319.9815	-3.4774	5319.9826	-3.2707	5319.9877	-2.3120	5319.9898	-1.9173
40	120	5320.0006	0.1128	5320.0041	0.7707	5320.0052	0.9774	5320.0096	1.8045
30	120	5320.0034	0.6391	5320.002	0.3759	5319.9984	-0.3008	5319.9999	-0.0188
20	120	5320.0001	0.0188	5319.9952	-0.9023	5319.9921	-1.4850	5319.9889	-2.0865
10	120	5319.9995	-0.0940	5320.0009	0.1692	5320.0005	0.0940	5320.0041	0.7707
0	120	5319.9844	-2.9323	5319.9859	-2.6504	5319.9871	-2.4248	5319.9913	-1.6353
-10	120	5320.0056	1.0526	5320.0066	1.2406	5320.011	2.0677	5320.0149	2.8008
-20	120	5319.9825	-3.2895	5319.9851	-2.8008	5319.9848	-2.8571	5319.9805	-3.6654
-30	120	5319.997	-0.5639	5319.9931	-1.2970	5319.9971	-0.5451	5319.9954	-0.8647

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	ppm	(MHz)	ppm	(MHz)	ppm	(MHz)	ppm
20	138	5319.9998	-0.0376	5319.997	-0.5639	5319.991	-1.6917	5319.9884	-2.1805
	120	5320.0001	0.0188	5319.9952	-0.9023	5319.9921	-1.4850	5319.9889	-2.0865
	102	5319.9984	-0.3008	5319.996	-0.7519	5319.9923	-1.4474	5319.9884	-2.1805

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.

Copies of accreditation and authorization certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5.phtml.
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.adt.com.tw

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

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 ---