LIMITED FCC TEST REPORT (WLAN 15.407)

REPORT NO.:	RF120720E09D-1
MODEL NO.:	VC70N0
FCC ID:	UZ7VC70N0
RECEIVED:	Aug. 01, 2013
TESTED:	Aug. 01 to Sep. 02, 2013
ISSUED:	Sep. 11, 2013

APPLICANT:	Motorola Solutions, Inc.
ADDRESS:	One Motorola Plaza Holtsville NY 11742-1300 USA

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
TEST LOCATION (1):	No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan
TEST LOCATION (2):	No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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REPORT ISSUE HISTORY RECORD OF EUT (VC70N0)

ATTACHMENT NO.	ISSUE DATE	DESCRIPTION
120720E09-1	Nov. 08, 2012	Original release
120720E09-1 R1	Nov. 09, 2012	Modified the description on section 3.1, section 3.5 & section 3.6
120720E09-1 R2	Nov. 14, 2012	Modified the description on section 3.6
120720E09D-1	Sep. 11, 2013	Add one new Stubby antenna of the EUT.

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120720E09D-1	Original release	Sep. 11, 2013

1. CERTIFICATION

PRODUCT:	Vehicle Computer
BRAND NAME:	MOTOROLA
MODEL NO.:	VC70N0
TEST SAMPLE:	MASS-PRODUCTION
APPLICANT:	Motorola Solutions, Inc.
TESTED:	Aug. 01 to Sep. 02, 2013
STANDARDS:	FCC Part 15, Subpart E (Section 15.407) ANSI C63.10-2009

The above equipment (Model: VC70N0) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : _____ , **DATE:** *Sep. 11, 2013*
(Lori Chung, Specialist)

APPROVED BY : _____ , **DATE:** *Sep. 11, 2013*
(May Chen, Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

For 5GHz, 5150~5350MHz & 5470~5600 & 5650~5725MHz

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
15.407(b/1/2/3) (b)(5)	Radiated spurious emission	PASS	Meet the requirement of limit. Minimum passing margin is -2.9dB at 5150.00MHz & 5470.00MHz.
15.407(a/1/2/3)	Transmit Power	PASS	Meet the requirement of limit.

NOTE:

1. The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 5.15~5.35GHz and 5.47~5.6GHz & 5.65~5.725GHz. For the 2400 ~ 2483.5MHz and 5.725~5.85GHz RF parameters was recorded in another test report.
2. This report is prepared for FCC class II permissive change. Only radiated spurious emission / transmit power were presented in this test report.
3. The DFS report was recorded in another test report.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

Measurement	Value
Radiated emissions (30MHz-1GHz)	5.63 dB
Radiated emissions (1GHz-6GHz)	3.73 dB
Radiated emissions (6GHz-18GHz)	3.90 dB
Radiated emissions (18GHz-40GHz)	4.11 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Vehicle Computer
MODEL NO.	VC70N0
POWER SUPPLY	DC 12V from power supply
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: up to11Mbps 802.11g / a: up to 54Mbps 802.11n (HT20, 800ns GI): up to 65Mbps 802.11n (HT20, 400ns GI): up to 72.2Mbps
OPERATING FREQUENCY	**For 15.407** 5GHz: 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.47~5.6GHz, 5.65~5.725GHz
	For 15.247 2.4GHz: 2.412 ~ 2.472GHz 5GHz: 5.745 ~ 5.825GHz
NUMBER OF CHANNEL	**For 15.407** 16 for 802.11a, 802.11n (HT20)
	For 15.247 (2.4GHz) 13 for 802.11b, 802.11g, 802.11n (HT20) **For 15.247 (5GHz)** 5 for 802.11a, 802.11n (HT20)
MAXIMUM OUTPUT POWER	**For 15.407** 802.11a: 101.391mW 802.11n (HT20): 73.451mW **For 15.247(2.4GHz)** 802.11b: 182.390mW 802.11g: 214.783mW 802.11n (HT20): 209.894mW **For 15.247(5GHz)** 802.11a: 169.824mW 802.11n (HT20): 167.109mW
ANTENNA TYPE	Please see NOTE
DATA CABLE	NA
I/O PORTS	Refer User's manual
ASSOCIATED DEVICES	NA

NOTE:

1. This report is prepared for FCC Class II change. The difference compared with the Report No.: RF120720E09-1 R2 design is as the following:

   u Add one new Stubby antenna of the EUT as following table:

Original

No.	Brand	Model	ANT Type	Connecter Type (External only)	Freq. Range (MHz to MHz)	Gain (dBi) (Including cable loss)	Cable Loss (dB)	Cable Length
1	Aristotle	RFA-02-G78-1	PIFA	N/A	2400-2500	1.7 (for BT)	0.783	27cm
2	Aristotle	RFA-02-G78-1	PIFA	N/A	2400-2500	1.1 (for Main WLAN)	0.58	20cm
3	Aristotle	RFA-02-G78-1	PIFA	N/A	4900-5850	4.7 (for Main WLAN)	0.96 ~ 1.06	20cm
4	Aristotle	RFA-02-G78-1	PIFA	N/A	2400-2500	-0.5 (for Aux WLAN)	0.783	27cm
5	Aristotle	RFA-02-G78-1	PIFA	N/A	4900-5850	4.3 (for Aux WLAN)	1.296 ~ 1.431	27cm
6	PCTEL	GPSDBHF	Shark-shape	RRSMA	2400-2500	1.18 (for External WLAN)	2.28	12ft
7	PCTEL	GPSDBHF	Shark-shape	RRSMA	4900-5850	0.24 (for External WLAN)	3.36 ~ 3.84	12ft

Newly

No.	Brand	Model	ANT Type	Connecter Type (External only)	Freq. Range (MHz to MHz)	Gain (dBi)	Cable Loss (dB)	Cable Length
8	CENTURION	WTS2450-RP SMA	Dipole (for External WLAN)	Reverse Polarity SMA-Male	2400-2500	2.1	NA	NA
					5150-5350	2.6		
					5470-5725	3.4		
					5725-5850	3.4		

2. According to above conditions, only radiated spurious emission / transmit power need to be performed. And all data was verified to meet the requirements.

3. The associated devices(optional) of EUT information are as below:

Accessory	Model	Part No.	Description	Connector
Wired Scanner 1	LS 3408	LS 3408-ER20105R	LS 3408 serial/USB laser scanner	USB
Wired Scanner 2	DS3508	DS3508-ER20005R	DS3508 USB scanner	USB
Wired Scanner 3	DS457	DS457-SR20009	DS457 USB scanner	USB
Wireless Scanner 1	RS507	RS507-IM20000CTWR	RS507 BT Hands Free Imager (FCC ID: UZ7RS507)	NA (BT wireless connection)
Wireless Scanner 2	LS3578	LS3578-ER20005WR	LS3578 BT scanner (FCC ID: H9PLMX5452)	NA (BT wireless connection)
Wireless Scanner 3	DS3578	DS3578-ER2F005WR	DS3578 BT scanner (FCC ID: H9PDS3578)	NA (BT wireless connection)
External Speaker	HSN4040A	HSN4040A	Motorola HSN4040A 13 Watt water-resistant loudspeaker	special speaker connector
PTT mic	HMN1089B	HMN1089B	Motorola HMN1089B Water-resistant Palm Microphone or equivalent	special MIC connector
Keyboard 1	KYBD-QW-VC70-01R	59-160663-01	VC70_QWERTY keyboard	USB
Keyboard 2	KYBD-NU-VC70-01R	59-160661-01	VC70_21 keys_Functional/Numeric keyboard	USB
Keyboard 3	VC5090KYBD-00R	VC5090KYBD-02R	VC50_QWERTY keyboard	USB
Printer 1	RW420	R4D-0UBA000N-00	RW420 / Zebra, Printer.	RS232
Printer 2	MF2TE	200380-100	Microflash Series MF 2T, O'Neil, Easy Print	NA (BT wireless connection)
Power Supply 1	AA27410L	PWRS-9-60VDC-01R	Input Voltage: 9-60Vdc; Output Voltage: 12Vdc	DC input connector
Power Supply 2	50-14000-241R	PWRS-14000-241R	Input Voltage: 110-240Vac; Output Voltage: 12Vdc	DC input connector
Wired Scanner 1, Wireless Scanner 1 and Printer 1 were chosen for final test.				

4. The EUT has two variants, which are identical to each other in all aspects except for the following table:

Sample	Brand	Model	Difference
1	MOTOROLA	VC70N0	Heater
2	MOTOROLA	VC70N0	Non-heater

From the above samples, test **sample 1** was selected as representative model for the test and its data was recorded in this report.

5. The Version of EUT information are as below:

OS Version	7.00.2806
OEM Name	Motorola VC70N0
OEM Version	0.34.0005
Wireless(Fusion) Version	X_2.01.0.0.049R
Wireless(Fusion) Firmwave	_2.01.0.0.130
XW2DMT Version	X _2.01.0.0.3
Motorola version	X_2.01.0.0.118

6. The EUT could be supplied from a battery, the information are listed as below:

Brand:	Palladium
Part No.:	82-161178-01
Rating:	3.7V, 1880mAh

7. The EUT incorporates a SISO function without beam forming.

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

8. 2.4GHz and 5GHz technology cannot transmit at same time.

9. When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 7.

10. 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, 802.11n (HT20):

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

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

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

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

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE < 1G	RE ³ 1G	APCM	
-	√	√	√	Antenna 8+Power Supply 2 + Keyboard 1

Where **RE < 1G:** Radiated Emission below 1GHz **RE ³ 1G:** Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

NOTE: The test mode was reference to the worst case in the original test report.

RADIATED EMISSION TEST (BELOW 1 GHz):

☒ 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	52	OFDM	BPSK	6

RADIATED EMISSION TEST (ABOVE 1 GHz):

☒ 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, 44, 48, 52, 60, 64, 100, 104, 116, 132, 140	OFDM	BPSK	6
802.11n (HT20)	36 to 140	36, 40, 44, 48, 52, 60, 64, 100, 104, 116, 132, 140	OFDM	BPSK	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ 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, 44, 48, 52, 60, 64, 100, 104, 116, 132, 140	OFDM	BPSK	6
802.11n (HT20)	36 to 140	36, 40, 44, 48, 52, 60, 64, 100, 104, 116, 132, 140	OFDM	BPSK	6.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE<1G	23deg. C, 71%RH	120Vac, 60Hz	Chilin Lee
RE≥1G	23deg. C, 68%RH	120Vac, 60Hz	Tim Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	James Chan

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 (15.407)

789033 D01 General UNII Test Procedures v01 r03

ANSI C63.10-2009

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

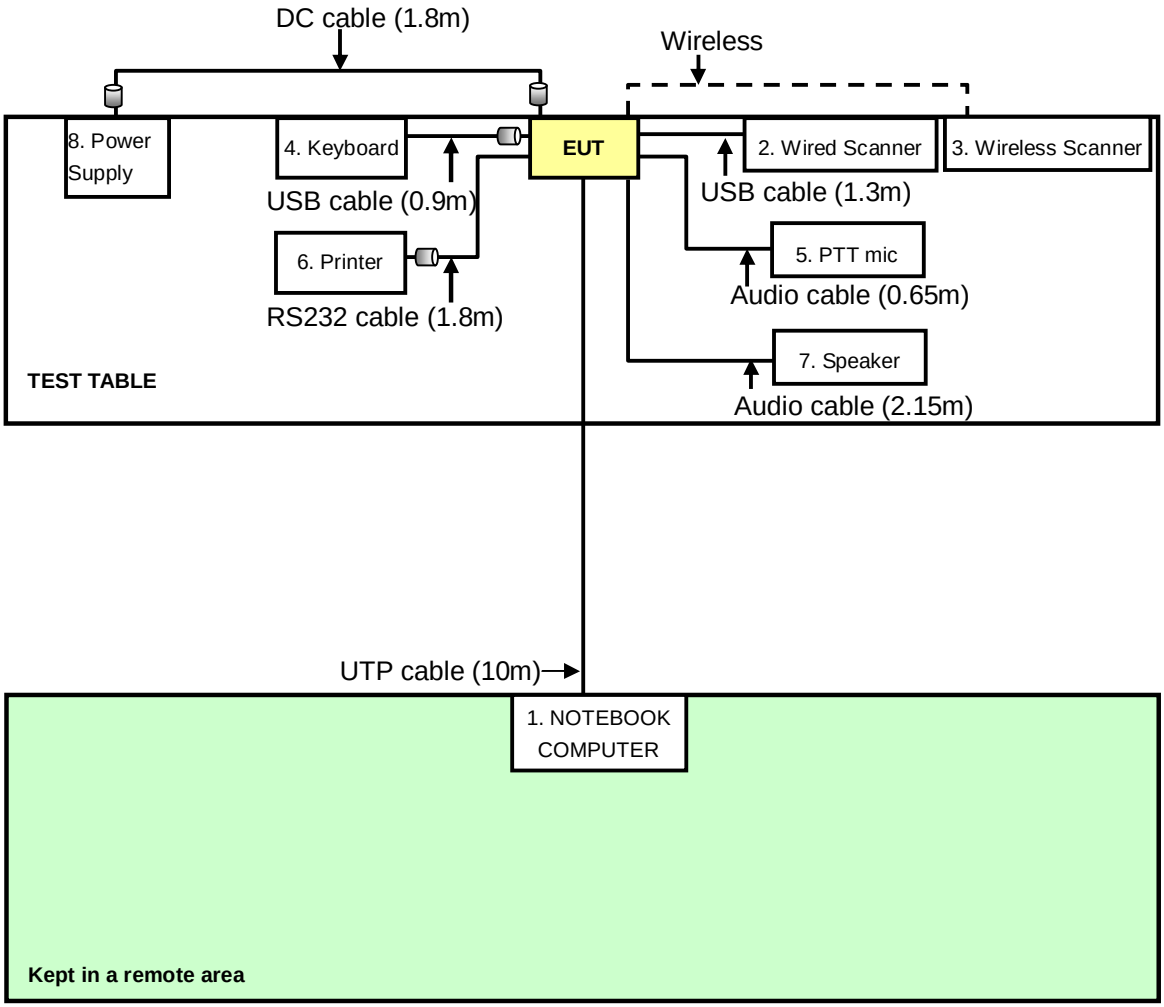
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.
1	NOTEBOOK COMPUTER	DELL	PP32LA	FSLB32S
2	Wired Scanner	NA	LS 3408	LS 3408-ER20105R
3	Wireless Scanner	NA	RS507	RS507-IM20000CTWR
4	Keyboard	NA	KYBD-QW-VC70-01R	59-160663-01
5	PTT MIC	Motorola	HMN1098B	HMN1098B
6	Printer	NA	RW420	R4D-0UBA000N-00
7	Speaker	Motorola	HSN4040A	HSN4040A
8	Power Supply	Motorola	50-14000-241R	PWRS-14000-241R

No.	Signal cable description
1	UTP cable (10m)
2	USB cable (1.3m)
3	NA
4	USB cable (0.9m, with 1 core)
5	Audio cable (0.65m)
6	RS232 cable (1.8m, with 1 core)
7	Audio cable (2.15m)
8	DC cable(1.8m, with two cores)

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

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

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

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

NOTE:

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

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

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4446A	MY48250253	Sep. 03, 2012	Sep. 02, 2013
MXE EMI Receiver Agilent	N9038A	MY51210105	Jan. 29, 2013	Jan. 28, 2014
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-03	Nov. 14, 2012	Nov. 13, 2013
Pre-Amplifier Agilent	8449B	3008A02578	June 25, 2013	June 24, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 14, 2012	Nov. 13, 2013
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Mar. 19, 2013	Mar. 18, 2014
Horn_Antenna AISI	AIH.8018	0000320091110	Nov. 19, 2012	Nov. 18, 2013
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 12, 2012	Oct. 11, 2013
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 25, 2012	Dec. 24, 2013
RF Cable	NA	CHGCAB_001	Oct. 06, 2012	Oct. 05, 2013
Software	ADT_Radiated_V8.7.05	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3 The test was performed in 966 Chamber No. G.
4. The FCC Site Registration No. is 966073.
5 The VCCI Site Registration No. is G-137.
6 The CANADA Site Registration No. is IC 7450H-2.
7 Tested Date: Aug. 01 to Sep. 02, 2013

4.1.4 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.

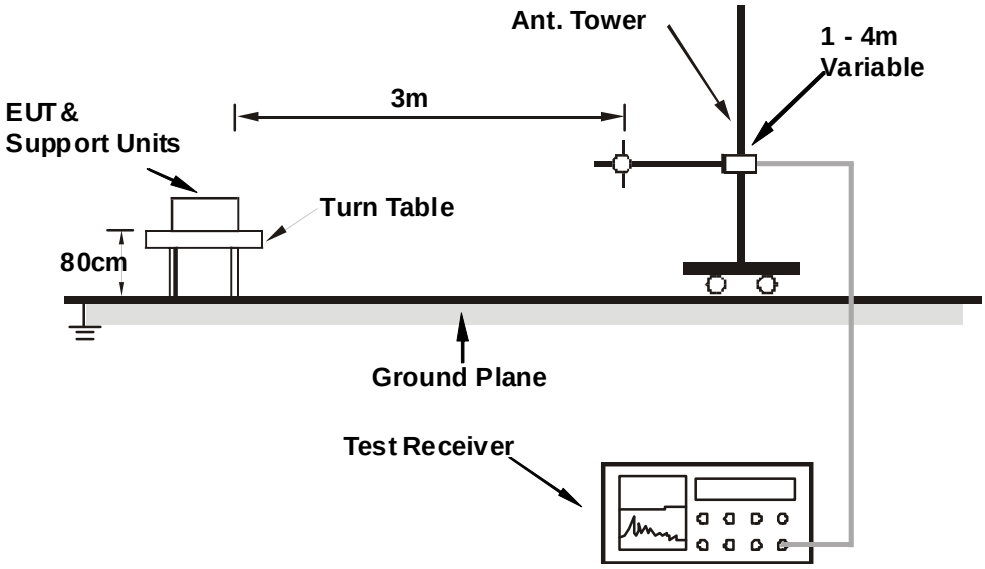
NOTE:

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.

4.1.5 DEVIATION FROM TEST STANDARD

No deviation

4.1.6 TEST SETUP



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

4.1.7 EUT OPERATING CONDITION

1. Turn on the power of EUT.
2. The communication partner run test program “XW2DMT.exe” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

802.11a

CHANNEL	TX Channel 52	**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	96.12	32.9 QP	43.5	-10.6	2.00 H	257	51.60	-18.74
2	199.98	34.6 QP	43.5	-8.9	1.00 H	248	51.28	-16.65
3	256.01	31.9 QP	46.0	-14.1	1.50 H	262	46.35	-14.43
4	448.02	39.5 QP	46.0	-6.5	2.00 H	173	48.33	-8.80
5	512.13	35.1 QP	46.0	-10.9	1.50 H	230	42.62	-7.54
6	959.99	34.8 QP	46.0	-11.2	1.50 H	29	34.27	0.56
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	39.10	34.6 QP	40.0	-5.4	1.00 V	201	48.75	-14.19
2	202.55	30.7 QP	43.5	-12.8	1.00 V	323	47.27	-16.59
3	510.34	34.8 QP	46.0	-11.2	1.00 V	340	42.33	-7.57
4	575.07	33.6 QP	46.0	-12.4	1.50 V	339	39.91	-6.33
5	637.88	33.7 QP	46.0	-12.3	1.50 V	19	38.34	-4.60
6	959.91	36.7 QP	46.0	-9.3	1.50 V	356	36.14	0.56

REMARKS:

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

ABOVE 1GHz DATA

802.11a

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	64.7 PK	74.0	-9.3	1.07 H	312	56.10	8.60
2	5150.00	45.3 AV	54.0	-8.7	1.07 H	312	36.70	8.60
3	*5180.00	101.8 PK			1.07 H	312	93.04	8.76
4	*5180.00	90.5 AV			1.07 H	312	81.74	8.76
5	#10360.00	48.3 PK	74.0	-25.7	1.40 H	94	32.76	15.54
6	#10360.00	36.2 AV	54.0	-17.8	1.40 H	94	20.66	15.54
7	15540.00	57.3 PK	74.0	-16.7	1.20 H	222	34.93	22.37
8	15540.00	44.9 AV	54.0	-9.1	1.20 H	222	22.53	22.37
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	71.1 PK	74.0	-2.9	1.00 V	46	62.50	8.60
2	5150.00	50.9 AV	54.0	-3.1	1.00 V	46	42.30	8.60
3	*5180.00	108.1 PK			1.00 V	46	99.34	8.76
4	*5180.00	96.9 AV			1.00 V	46	88.14	8.76
5	#10360.00	48.2 PK	74.0	-25.8	1.31 V	327	32.66	15.54
6	#10360.00	36.1 AV	54.0	-17.9	1.31 V	327	20.56	15.54
7	15540.00	58.0 PK	74.0	-16.0	1.30 V	222	35.63	22.37
8	15540.00	46.0 AV	54.0	-8.0	1.30 V	222	23.63	22.37

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.06 H	313	50.40	8.60
2	5150.00	42.5 AV	54.0	-11.5	1.06 H	313	33.90	8.60
3	*5200.00	106.1 PK			1.06 H	313	97.23	8.87
4	*5200.00	94.1 AV			1.06 H	313	85.23	8.87
5	5350.00	54.1 PK	74.0	-19.9	1.06 H	313	44.79	9.31
6	5350.00	40.6 AV	54.0	-13.4	1.06 H	313	31.29	9.31
7	#10400.00	48.9 PK	74.0	-25.1	1.34 H	101	33.72	15.18
8	#10400.00	36.5 AV	54.0	-17.5	1.34 H	101	21.32	15.18
9	15600.00	57.8 PK	74.0	-16.2	1.27 H	243	35.68	22.12
10	15600.00	45.3 AV	54.0	-8.7	1.27 H	243	23.18	22.12
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	5150.00	65.1 PK	74.0	-8.9	1.00 V	47	56.50	8.60
2	5150.00	48.4 AV	54.0	-5.6	1.00 V	47	39.80	8.60
3	*5200.00	112.0 PK			1.00 V	47	103.13	8.87
4	*5200.00	100.1 AV			1.00 V	47	91.23	8.87
5	5350.00	54.2 PK	74.0	-19.8	1.00 V	47	44.89	9.31
6	5350.00	40.6 AV	54.0	-13.4	1.00 V	47	31.29	9.31
7	#10400.00	48.8 PK	74.0	-25.2	1.21 V	320	33.62	15.18
8	#10400.00	36.2 AV	54.0	-17.8	1.21 V	320	21.02	15.18
9	15600.00	58.4 PK	74.0	-15.6	1.38 V	215	36.28	22.12
10	15600.00	46.6 AV	54.0	-7.4	1.38 V	215	24.48	22.12

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) – Pre-Amplifier 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 44	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	59.4 PK	74.0	-14.6	1.02 H	320	52.24	7.16
2	5150.00	42.8 AV	54.0	-11.2	1.02 H	320	35.64	7.16
3	*5220.00	106.0 PK			1.02 H	320	98.56	7.44
4	*5220.00	93.9 AV			1.02 H	320	86.46	7.44
5	5350.00	54.6 PK	74.0	-19.4	1.02 H	320	46.76	7.84
6	5350.00	41.0 AV	54.0	-13.0	1.02 H	320	33.16	7.84
7	#10440.00	48.5 PK	74.0	-25.5	1.33 H	89	34.37	14.13
8	#10440.00	36.2 AV	54.0	-17.8	1.33 H	89	22.07	14.13
9	15660.00	58.2 PK	74.0	-15.8	1.32 H	250	38.35	19.85
10	15660.00	45.6 AV	54.0	-8.4	1.32 H	250	25.75	19.85
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	65.0 PK	74.0	-9.0	1.00 V	56	57.84	7.16
2	5150.00	48.5 AV	54.0	-5.5	1.00 V	56	41.34	7.16
3	*5220.00	112.4 PK			1.00 V	56	104.96	7.44
4	*5220.00	100.6 AV			1.00 V	56	93.16	7.44
5	5350.00	54.7 PK	74.0	-19.3	1.00 V	56	46.86	7.84
6	5350.00	41.0 AV	54.0	-13.0	1.00 V	56	33.16	7.84
7	#10440.00	48.7 PK	74.0	-25.3	1.24 V	330	34.57	14.13
8	#10440.00	35.9 AV	54.0	-18.1	1.24 V	330	21.77	14.13
9	15660.00	58.4 PK	74.0	-15.6	1.36 V	220	38.55	19.85
10	15660.00	46.5 AV	54.0	-7.5	1.36 V	220	26.65	19.85

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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	5150.00	54.9 PK	74.0	-19.1	1.09 H	325	46.30	8.60
2	5150.00	40.9 AV	54.0	-13.1	1.09 H	325	32.30	8.60
3	*5240.00	106.1 PK			1.09 H	325	97.09	9.01
4	*5240.00	94.5 AV			1.09 H	325	85.49	9.01
5	5350.00	55.7 PK	74.0	-18.3	1.09 H	325	46.39	9.31
6	5350.00	41.6 AV	54.0	-12.4	1.09 H	325	32.29	9.31
7	#10480.00	49.2 PK	74.0	-24.8	1.36 H	121	33.40	15.80
8	#10480.00	36.8 AV	54.0	-17.2	1.36 H	121	21.00	15.80
9	15720.00	57.1 PK	74.0	-16.9	1.22 H	249	35.30	21.80
10	15720.00	45.3 AV	54.0	-8.7	1.22 H	249	23.50	21.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	54.5 PK	74.0	-19.5	1.17 V	48	45.90	8.60
2	5150.00	40.7 AV	54.0	-13.3	1.17 V	48	32.10	8.60
3	*5240.00	112.0 PK			1.17 V	48	102.99	9.01
4	*5240.00	100.3 AV			1.17 V	48	91.29	9.01
5	5350.00	55.4 PK	74.0	-18.6	1.17 V	48	46.09	9.31
6	5350.00	41.4 AV	54.0	-12.6	1.17 V	48	32.09	9.31
7	#10480.00	48.5 PK	74.0	-25.5	1.25 V	314	32.70	15.80
8	#10480.00	36.1 AV	54.0	-17.9	1.25 V	314	20.30	15.80
9	15720.00	58.4 PK	74.0	-15.6	1.32 V	218	36.60	21.80
10	15720.00	46.5 AV	54.0	-7.5	1.32 V	218	24.70	21.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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	5150.00	53.9 PK	74.0	-20.1	1.08 H	315	45.30	8.60
2	5150.00	40.1 AV	54.0	-13.9	1.08 H	315	31.50	8.60
3	*5260.00	106.4 PK			1.08 H	315	97.33	9.07
4	*5260.00	94.7 AV			1.08 H	315	85.63	9.07
5	5350.00	55.9 PK	74.0	-18.1	1.08 H	315	46.59	9.31
6	5350.00	41.2 AV	54.0	-12.8	1.08 H	315	31.89	9.31
7	#10520.00	49.1 PK	74.0	-24.9	1.29 H	126	33.12	15.98
8	#10520.00	36.9 AV	54.0	-17.1	1.29 H	126	20.92	15.98
9	15780.00	57.4 PK	74.0	-16.6	1.28 H	249	35.41	21.99
10	15780.00	45.4 AV	54.0	-8.6	1.28 H	249	23.41	21.99
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	54.3 PK	74.0	-19.7	1.17 V	45	45.70	8.60
2	5150.00	40.4 AV	54.0	-13.6	1.17 V	45	31.80	8.60
3	*5260.00	111.9 PK			1.17 V	45	102.83	9.07
4	*5260.00	100.2 AV			1.17 V	45	91.13	9.07
5	5350.00	56.6 PK	74.0	-17.4	1.17 V	45	47.29	9.31
6	5350.00	41.7 AV	54.0	-12.3	1.17 V	45	32.39	9.31
7	#10520.00	48.5 PK	74.0	-25.5	1.20 V	315	32.52	15.98
8	#10520.00	36.3 AV	54.0	-17.7	1.20 V	315	20.32	15.98
9	15780.00	58.5 PK	74.0	-15.5	1.31 V	208	36.51	21.99
10	15780.00	46.4 AV	54.0	-7.6	1.31 V	208	24.41	21.99

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	5150.00	53.6 PK	74.0	-20.4	1.09 H	329	45.00	8.60
2	5150.00	40.2 AV	54.0	-13.8	1.09 H	329	31.60	8.60
3	*5300.00	106.8 PK			1.09 H	329	97.59	9.21
4	*5300.00	94.5 AV			1.09 H	329	85.29	9.21
5	5350.00	60.3 PK	74.0	-13.7	1.09 H	329	50.99	9.31
6	5350.00	42.8 AV	54.0	-11.2	1.09 H	329	33.49	9.31
7	10600.00	48.4 PK	74.0	-25.6	1.38 H	105	32.28	16.12
8	10600.00	35.9 AV	54.0	-18.1	1.38 H	105	19.78	16.12
9	15900.00	57.1 PK	74.0	-16.9	1.26 H	231	35.00	22.10
10	15900.00	44.9 AV	54.0	-9.1	1.26 H	231	22.80	22.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	53.3 PK	74.0	-20.7	1.16 V	45	44.70	8.60
2	5150.00	39.9 AV	54.0	-14.1	1.16 V	45	31.30	8.60
3	*5300.00	112.4 PK			1.16 V	45	103.19	9.21
4	*5300.00	100.3 AV			1.16 V	45	91.09	9.21
5	5350.00	66.6 PK	74.0	-7.4	1.16 V	45	57.29	9.31
6	5350.00	49.2 AV	54.0	-4.8	1.16 V	45	39.89	9.31
7	10600.00	48.6 PK	74.0	-25.4	1.29 V	298	32.48	16.12
8	10600.00	36.3 AV	54.0	-17.7	1.29 V	298	20.18	16.12
9	15900.00	58.3 PK	74.0	-15.7	1.27 V	231	36.20	22.10
10	15900.00	46.5 AV	54.0	-7.5	1.27 V	231	24.40	22.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	102.5 PK			1.12 H	341	93.25	9.25
2	*5320.00	91.8 AV			1.12 H	341	82.55	9.25
3	5350.00	65.4 PK	74.0	-8.6	1.12 H	341	56.09	9.31
4	5350.00	45.3 AV	54.0	-8.7	1.12 H	341	35.99	9.31
5	10640.00	49.2 PK	74.0	-24.8	1.41 H	110	32.94	16.26
6	10640.00	36.5 AV	54.0	-17.5	1.41 H	110	20.24	16.26
7	15960.00	57.4 PK	74.0	-16.6	1.18 H	244	35.42	21.98
8	15960.00	45.2 AV	54.0	-8.8	1.18 H	244	23.22	21.98
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	108.6 PK			1.15 V	45	99.35	9.25
2	*5320.00	97.7 AV			1.15 V	45	88.45	9.25
3	5350.00	70.7 PK	74.0	-3.3	1.15 V	45	61.39	9.31
4	5350.00	50.5 AV	54.0	-3.5	1.15 V	45	41.19	9.31
5	10640.00	48.8 PK	74.0	-25.2	1.23 V	300	32.54	16.26
6	10640.00	36.5 AV	54.0	-17.5	1.23 V	300	20.24	16.26
7	15960.00	58.2 PK	74.0	-15.8	1.37 V	218	36.22	21.98
8	15960.00	46.1 AV	54.0	-7.9	1.37 V	218	24.12	21.98

REMARKS:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	1.14 H	357	51.65	9.65
2	5460.00	43.5 AV	54.0	-10.5	1.14 H	357	33.85	9.65
3	#5470.00	65.3 PK	74.0	-8.7	1.14 H	357	55.61	9.69
4	#5470.00	45.1 AV	54.0	-8.9	1.14 H	357	35.41	9.69
5	*5500.00	102.8 PK			1.14 H	357	92.99	9.81
6	*5500.00	91.1 AV			1.14 H	357	81.29	9.81
7	11000.00	49.1 PK	74.0	-24.9	1.35 H	114	31.50	17.60
8	11000.00	36.5 AV	54.0	-17.5	1.35 H	114	18.90	17.60
9	#16500.00	58.0 PK	74.0	-16.0	1.28 H	240	33.86	24.14
10	#16500.00	45.8 AV	54.0	-8.2	1.28 H	240	21.66	24.14
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	5460.00	64.3 PK	74.0	-9.7	1.34 V	72	54.65	9.65
2	5460.00	46.2 AV	54.0	-7.8	1.34 V	72	36.55	9.65
3	#5470.00	71.1 PK	74.0	-2.9	1.34 V	72	61.41	9.69
4	#5470.00	50.9 AV	54.0	-3.1	1.34 V	72	41.21	9.69
5	*5500.00	108.3 PK			1.34 V	72	98.49	9.81
6	*5500.00	97.5 AV			1.34 V	72	87.69	9.81
7	11000.00	48.0 PK	74.0	-26.0	1.20 V	314	30.40	17.60
8	11000.00	35.7 AV	54.0	-18.3	1.20 V	314	18.10	17.60
9	#16500.00	59.0 PK	74.0	-15.0	1.37 V	222	34.86	24.14
10	#16500.00	46.9 AV	54.0	-7.1	1.37 V	222	22.76	24.14

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) – Pre-Amplifier 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 104	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	55.4 PK	74.0	-18.6	1.12 H	360	47.15	8.25
2	5460.00	41.8 AV	54.0	-12.2	1.12 H	360	33.55	8.25
3	#5470.00	53.7 PK	74.0	-20.3	1.12 H	360	45.40	8.30
4	#5470.00	41.8 AV	54.0	-12.2	1.12 H	360	33.50	8.30
5	*5520.00	105.7 PK			1.12 H	360	97.22	8.48
6	*5520.00	94.0 AV			1.12 H	360	85.52	8.48
7	11040.00	48.3 PK	74.0	-25.7	1.39 H	101	32.22	16.08
8	11040.00	36.0 AV	54.0	-18.0	1.39 H	101	19.92	16.08
9	#16560.00	57.9 PK	74.0	-16.1	1.32 H	236	35.19	22.71
10	#16560.00	45.2 AV	54.0	-8.8	1.32 H	236	22.49	22.71
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	54.9 PK	74.0	-19.1	1.23 V	81	46.65	8.25
2	5460.00	41.1 AV	54.0	-12.9	1.23 V	81	32.85	8.25
3	#5470.00	53.6 PK	74.0	-20.4	1.23 V	81	45.30	8.30
4	#5470.00	41.9 AV	54.0	-12.1	1.23 V	81	33.60	8.30
5	*5520.00	111.6 PK			1.23 V	81	103.12	8.48
6	*5520.00	100.1 AV			1.23 V	81	91.62	8.48
7	11040.00	49.8 PK	74.0	-24.2	1.25 V	313	33.72	16.08
8	11040.00	37.2 AV	54.0	-16.8	1.25 V	313	21.12	16.08
9	#16560.00	58.2 PK	74.0	-15.8	1.32 V	210	35.49	22.71
10	#16560.00	46.4 AV	54.0	-7.6	1.32 V	210	23.69	22.71

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	5460.00	54.9 PK	74.0	-19.1	1.12 H	360	45.25	9.65
2	5460.00	41.3 AV	54.0	-12.7	1.12 H	360	31.65	9.65
3	#5470.00	54.1 PK	74.0	-19.9	1.12 H	360	44.41	9.69
4	#5470.00	42.0 AV	54.0	-12.0	1.12 H	360	32.31	9.69
5	*5580.00	105.2 PK			1.12 H	360	95.16	10.04
6	*5580.00	93.6 AV			1.12 H	360	83.56	10.04
7	11160.00	48.7 PK	74.0	-25.3	1.40 H	94	31.67	17.03
8	11160.00	36.2 AV	54.0	-17.8	1.40 H	94	19.17	17.03
9	#16740.00	57.2 PK	74.0	-16.8	1.28 H	242	32.70	24.50
10	#16740.00	44.8 AV	54.0	-9.2	1.28 H	242	20.30	24.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.2 PK	74.0	-18.8	1.24 V	91	45.55	9.65
2	5460.00	41.6 AV	54.0	-12.4	1.24 V	91	31.95	9.65
3	#5470.00	53.8 PK	74.0	-20.2	1.24 V	91	44.11	9.69
4	#5470.00	41.6 AV	54.0	-12.4	1.24 V	91	31.91	9.69
5	*5580.00	111.6 PK			1.24 V	91	101.56	10.04
6	*5580.00	100.0 AV			1.24 V	91	89.96	10.04
7	11160.00	49.7 PK	74.0	-24.3	1.28 V	313	32.67	17.03
8	11160.00	37.3 AV	54.0	-16.7	1.28 V	313	20.27	17.03
9	#16740.00	59.2 PK	74.0	-14.8	1.36 V	211	34.70	24.50
10	#16740.00	46.9 AV	54.0	-7.1	1.36 V	211	22.40	24.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	5460.00	54.7 PK	74.0	-19.3	1.12 H	352	45.05	9.65
2	5460.00	41.3 AV	54.0	-12.7	1.12 H	352	31.65	9.65
3	#5470.00	54.3 PK	74.0	-19.7	1.12 H	352	44.61	9.69
4	#5470.00	41.2 AV	54.0	-12.8	1.12 H	352	31.51	9.69
5	*5660.00	105.7 PK			1.12 H	352	95.46	10.24
6	*5660.00	93.8 AV			1.12 H	352	83.56	10.24
7	#5725.00	61.3 PK	74.0	-12.7	1.12 H	352	50.92	10.38
8	#5725.00	44.1 AV	54.0	-9.9	1.12 H	352	33.72	10.38
9	11320.00	48.7 PK	74.0	-25.3	1.38 H	107	31.07	17.63
10	11320.00	36.3 AV	54.0	-17.7	1.38 H	107	18.67	17.63
11	#16980.00	57.6 PK	74.0	-16.4	1.23 H	237	32.16	25.44
12	#16980.00	45.3 AV	54.0	-8.7	1.23 H	237	19.86	25.44
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	54.1 PK	74.0	-19.9	1.23 V	114	44.45	9.65
2	5460.00	40.9 AV	54.0	-13.1	1.23 V	114	31.25	9.65
3	#5470.00	54.0 PK	74.0	-20.0	1.23 V	114	44.31	9.69
4	#5470.00	40.9 AV	54.0	-13.1	1.23 V	114	31.21	9.69
5	*5660.00	111.4 PK			1.23 V	114	101.16	10.24
6	*5660.00	99.7 AV			1.23 V	114	89.46	10.24
7	#5725.00	61.3 PK	74.0	-12.7	1.23 V	114	50.92	10.38
8	#5725.00	44.2 AV	54.0	-9.8	1.23 V	114	33.82	10.38
9	11320.00	49.8 PK	74.0	-24.2	1.22 V	323	32.17	17.63
10	11320.00	37.2 AV	54.0	-16.8	1.22 V	323	19.57	17.63
11	#16980.00	58.4 PK	74.0	-15.6	1.31 V	212	32.96	25.44
12	#16980.00	46.3 AV	54.0	-7.7	1.31 V	212	20.86	25.44

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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	101.3 PK			1.12 H	360	90.96	10.34
2	*5700.00	90.1 AV			1.12 H	360	79.76	10.34
3	#5725.00	65.3 PK	74.0	-8.7	1.12 H	360	54.92	10.38
4	#5725.00	44.5 AV	54.0	-9.5	1.12 H	360	34.12	10.38
5	11400.00	48.8 PK	74.0	-25.2	1.32 H	88	31.28	17.52
6	11400.00	36.5 AV	54.0	-17.5	1.32 H	88	18.98	17.52
7	#17100.00	57.3 PK	74.0	-16.7	1.19 H	235	32.01	25.29
8	#17100.00	45.1 AV	54.0	-8.9	1.19 H	235	19.81	25.29
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.9 PK			1.23 V	118	96.56	10.34
2	*5700.00	95.7 AV			1.23 V	118	85.36	10.34
3	#5725.00	70.6 PK	74.0	-3.4	1.23 V	118	60.22	10.38
4	#5725.00	50.3 AV	54.0	-3.7	1.23 V	118	39.92	10.38
5	11400.00	48.7 PK	74.0	-25.3	1.27 V	317	31.18	17.52
6	11400.00	36.4 AV	54.0	-17.6	1.27 V	317	18.88	17.52
7	#17100.00	58.3 PK	74.0	-15.7	1.37 V	207	33.01	25.29
8	#17100.00	46.6 AV	54.0	-7.4	1.37 V	207	21.31	25.29

REMARKS:

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

802.11n (HT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.1 PK	74.0	-8.9	1.11 H	354	56.50	8.60
2	5150.00	44.5 AV	54.0	-9.5	1.11 H	354	35.90	8.60
3	*5180.00	103.5 PK			1.11 H	354	94.74	8.76
4	*5180.00	90.3 AV			1.11 H	354	81.54	8.76
5	#10360.00	48.6 PK	74.0	-25.4	1.43 H	104	33.06	15.54
6	#10360.00	36.4 AV	54.0	-17.6	1.43 H	104	20.86	15.54
7	15540.00	57.9 PK	74.0	-16.1	1.18 H	241	35.53	22.37
8	15540.00	45.3 AV	54.0	-8.7	1.18 H	241	22.93	22.37
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	70.4 PK	74.0	-3.6	1.24 V	199	61.80	8.60
2	5150.00	50.3 AV	54.0	-3.7	1.24 V	199	41.70	8.60
3	*5180.00	109.8 PK			1.24 V	199	101.04	8.76
4	*5180.00	96.1 AV			1.24 V	199	87.34	8.76
5	#10360.00	48.0 PK	74.0	-26.0	1.22 V	303	32.46	15.54
6	#10360.00	35.8 AV	54.0	-18.2	1.22 V	303	20.26	15.54
7	15540.00	58.6 PK	74.0	-15.4	1.36 V	209	36.23	22.37
8	15540.00	46.4 AV	54.0	-7.6	1.36 V	209	24.03	22.37

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.1 PK	74.0	-12.9	1.10 H	348	52.50	8.60
2	5150.00	41.8 AV	54.0	-12.2	1.10 H	348	33.20	8.60
3	*5200.00	106.9 PK			1.10 H	348	98.03	8.87
4	*5200.00	94.2 AV			1.10 H	348	85.33	8.87
5	5350.00	53.4 PK	74.0	-20.6	1.10 H	348	44.09	9.31
6	5350.00	40.5 AV	54.0	-13.5	1.10 H	348	31.19	9.31
7	#10400.00	48.7 PK	74.0	-25.3	1.35 H	91	33.52	15.18
8	#10400.00	36.5 AV	54.0	-17.5	1.35 H	91	21.32	15.18
9	15600.00	57.1 PK	74.0	-16.9	1.16 H	217	34.98	22.12
10	15600.00	44.9 AV	54.0	-9.1	1.16 H	217	22.78	22.12
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	5150.00	66.8 PK	74.0	-7.2	1.23 V	202	58.20	8.60
2	5150.00	47.7 AV	54.0	-6.3	1.23 V	202	39.10	8.60
3	*5200.00	112.5 PK			1.23 V	202	103.63	8.87
4	*5200.00	100.0 AV			1.23 V	202	91.13	8.87
5	5350.00	53.7 PK	74.0	-20.3	1.23 V	202	44.39	9.31
6	5350.00	40.6 AV	54.0	-13.4	1.23 V	202	31.29	9.31
7	#10400.00	48.7 PK	74.0	-25.3	1.28 V	297	33.52	15.18
8	#10400.00	36.5 AV	54.0	-17.5	1.28 V	297	21.32	15.18
9	15600.00	58.9 PK	74.0	-15.1	1.30 V	229	36.78	22.12
10	15600.00	46.8 AV	54.0	-7.2	1.30 V	229	24.68	22.12

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) – Pre-Amplifier 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 44	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	61.5 PK	74.0	-12.5	1.05 H	360	54.34	7.16
2	5150.00	42.3 AV	54.0	-11.7	1.05 H	360	35.14	7.16
3	*5220.00	107.0 PK			1.05 H	360	99.56	7.44
4	*5220.00	94.6 AV			1.05 H	360	87.16	7.44
5	5350.00	53.0 PK	74.0	-21.0	1.05 H	360	45.16	7.84
6	5350.00	40.1 AV	54.0	-13.9	1.05 H	360	32.26	7.84
7	#10440.00	48.7 PK	74.0	-25.3	1.32 H	103	34.57	14.13
8	#10440.00	36.7 AV	54.0	-17.3	1.32 H	103	22.57	14.13
9	15660.00	57.0 PK	74.0	-17.0	1.20 H	202	37.15	19.85
10	15660.00	44.9 AV	54.0	-9.1	1.20 H	202	25.05	19.85
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	66.5 PK	74.0	-7.5	1.22 V	196	59.34	7.16
2	5150.00	47.5 AV	54.0	-6.5	1.22 V	196	40.34	7.16
3	*5220.00	112.4 PK			1.22 V	196	104.96	7.44
4	*5220.00	100.2 AV			1.22 V	196	92.76	7.44
5	5350.00	53.4 PK	74.0	-20.6	1.22 V	196	45.56	7.84
6	5350.00	40.6 AV	54.0	-13.4	1.22 V	196	32.76	7.84
7	#10440.00	48.3 PK	74.0	-25.7	1.31 V	308	34.17	14.13
8	#10440.00	36.1 AV	54.0	-17.9	1.31 V	308	21.97	14.13
9	15660.00	59.1 PK	74.0	-14.9	1.28 V	238	39.25	19.85
10	15660.00	46.7 AV	54.0	-7.3	1.28 V	238	26.85	19.85

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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	5150.00	54.4 PK	74.0	-19.6	1.08 H	351	45.80	8.60
2	5150.00	40.9 AV	54.0	-13.1	1.08 H	351	32.30	8.60
3	*5240.00	106.6 PK			1.08 H	351	97.59	9.01
4	*5240.00	94.2 AV			1.08 H	351	85.19	9.01
5	5350.00	55.0 PK	74.0	-19.0	1.08 H	351	45.69	9.31
6	5350.00	41.7 AV	54.0	-12.3	1.08 H	351	32.39	9.31
7	#10480.00	48.3 PK	74.0	-25.7	1.41 H	116	32.50	15.80
8	#10480.00	36.0 AV	54.0	-18.0	1.41 H	116	20.20	15.80
9	15720.00	57.1 PK	74.0	-16.9	1.18 H	211	35.30	21.80
10	15720.00	45.1 AV	54.0	-8.9	1.18 H	211	23.30	21.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	53.9 PK	74.0	-20.1	1.22 V	203	45.30	8.60
2	5150.00	40.4 AV	54.0	-13.6	1.22 V	203	31.80	8.60
3	*5240.00	112.4 PK			1.22 V	203	103.39	9.01
4	*5240.00	99.8 AV			1.22 V	203	90.79	9.01
5	5350.00	54.9 PK	74.0	-19.1	1.22 V	203	45.59	9.31
6	5350.00	41.3 AV	54.0	-12.7	1.22 V	203	31.99	9.31
7	#10480.00	49.2 PK	74.0	-24.8	1.18 V	323	33.40	15.80
8	#10480.00	36.6 AV	54.0	-17.4	1.18 V	323	20.80	15.80
9	15720.00	58.5 PK	74.0	-15.5	1.36 V	208	36.70	21.80
10	15720.00	46.4 AV	54.0	-7.6	1.36 V	208	24.60	21.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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	5150.00	53.1 PK	74.0	-20.9	1.06 H	360	44.50	8.60
2	5150.00	38.7 AV	54.0	-15.3	1.06 H	360	30.10	8.60
3	*5260.00	106.2 PK			1.06 H	360	97.13	9.07
4	*5260.00	93.1 AV			1.06 H	360	84.03	9.07
5	5350.00	55.3 PK	74.0	-18.7	1.06 H	360	45.99	9.31
6	5350.00	41.0 AV	54.0	-13.0	1.06 H	360	31.69	9.31
7	#10520.00	49.3 PK	74.0	-24.7	1.23 H	111	33.32	15.98
8	#10520.00	36.7 AV	54.0	-17.3	1.23 H	111	20.72	15.98
9	15780.00	56.9 PK	74.0	-17.1	1.17 H	237	34.91	21.99
10	15780.00	44.7 AV	54.0	-9.3	1.17 H	237	22.71	21.99
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	53.1 PK	74.0	-20.9	1.21 V	204	44.50	8.60
2	5150.00	38.8 AV	54.0	-15.2	1.21 V	204	30.20	8.60
3	*5260.00	112.0 PK			1.21 V	204	102.93	9.07
4	*5260.00	99.1 AV			1.21 V	204	90.03	9.07
5	5350.00	55.3 PK	74.0	-18.7	1.21 V	204	45.99	9.31
6	5350.00	41.1 AV	54.0	-12.9	1.21 V	204	31.79	9.31
7	#10520.00	48.7 PK	74.0	-25.3	1.24 V	306	32.72	15.98
8	#10520.00	36.5 AV	54.0	-17.5	1.24 V	306	20.52	15.98
9	15780.00	58.3 PK	74.0	-15.7	1.31 V	218	36.31	21.99
10	15780.00	46.2 AV	54.0	-7.8	1.31 V	218	24.21	21.99

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	5150.00	53.5 PK	74.0	-20.5	1.02 H	354	44.90	8.60
2	5150.00	39.5 AV	54.0	-14.5	1.02 H	354	30.90	8.60
3	*5300.00	106.2 PK			1.02 H	354	96.99	9.21
4	*5300.00	92.8 AV			1.02 H	354	83.59	9.21
5	5350.00	60.1 PK	74.0	-13.9	1.02 H	354	50.79	9.31
6	5350.00	42.3 AV	54.0	-11.7	1.02 H	354	32.99	9.31
7	10600.00	48.1 PK	74.0	-25.9	1.40 H	118	31.98	16.12
8	10600.00	36.1 AV	54.0	-17.9	1.40 H	118	19.98	16.12
9	15900.00	57.6 PK	74.0	-16.4	1.25 H	244	35.50	22.10
10	15900.00	45.3 AV	54.0	-8.7	1.25 H	244	23.20	22.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	53.6 PK	74.0	-20.4	1.22 V	204	45.00	8.60
2	5150.00	39.6 AV	54.0	-14.4	1.22 V	204	31.00	8.60
3	*5300.00	111.5 PK			1.22 V	204	102.29	9.21
4	*5300.00	98.9 AV			1.22 V	204	89.69	9.21
5	5350.00	65.3 PK	74.0	-8.7	1.22 V	204	55.99	9.31
6	5350.00	48.1 AV	54.0	-5.9	1.22 V	204	38.79	9.31
7	10600.00	48.6 PK	74.0	-25.4	1.18 V	326	32.48	16.12
8	10600.00	36.6 AV	54.0	-17.4	1.18 V	326	20.48	16.12
9	15900.00	58.5 PK	74.0	-15.5	1.35 V	217	36.40	22.10
10	15900.00	46.5 AV	54.0	-7.5	1.35 V	217	24.40	22.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	102.6 PK			1.03 H	354	93.35	9.25
2	*5320.00	90.1 AV			1.03 H	354	80.85	9.25
3	5350.00	63.3 PK	74.0	-10.7	1.03 H	354	53.99	9.31
4	5350.00	45.1 AV	54.0	-8.9	1.03 H	354	35.79	9.31
5	10640.00	48.9 PK	74.0	-25.1	1.26 H	101	32.64	16.26
6	10640.00	36.6 AV	54.0	-17.4	1.26 H	101	20.34	16.26
7	15960.00	57.9 PK	74.0	-16.1	1.18 H	204	35.92	21.98
8	15960.00	45.5 AV	54.0	-8.5	1.18 H	204	23.52	21.98
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.3 PK			1.21 V	207	100.05	9.25
2	*5320.00	96.2 AV			1.21 V	207	86.95	9.25
3	5350.00	69.5 PK	74.0	-4.5	1.21 V	207	60.19	9.31
4	5350.00	50.3 AV	54.0	-3.7	1.21 V	207	40.99	9.31
5	10640.00	48.9 PK	74.0	-25.1	1.26 V	321	32.64	16.26
6	10640.00	36.2 AV	54.0	-17.8	1.26 V	321	19.94	16.26
7	15960.00	57.9 PK	74.0	-16.1	1.29 V	212	35.92	21.98
8	15960.00	46.2 AV	54.0	-7.8	1.29 V	212	24.22	21.98

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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	60.1 PK	74.0	-13.9	1.03 H	360	50.45	9.65
2	5460.00	44.3 AV	54.0	-9.7	1.03 H	360	34.65	9.65
3	#5470.00	60.5 PK	74.0	-13.5	1.03 H	360	50.81	9.69
4	#5470.00	44.5 AV	54.0	-9.5	1.03 H	360	34.81	9.69
5	*5500.00	102.5 PK			1.03 H	360	92.69	9.81
6	*5500.00	90.8 AV			1.03 H	360	80.99	9.81
7	11000.00	48.1 PK	74.0	-25.9	1.38 H	75	30.50	17.60
8	11000.00	35.6 AV	54.0	-18.4	1.38 H	75	18.00	17.60
9	#16500.00	57.5 PK	74.0	-16.5	1.18 H	243	33.36	24.14
10	#16500.00	45.4 AV	54.0	-8.6	1.18 H	243	21.26	24.14
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	5460.00	63.9 PK	74.0	-10.1	1.22 V	296	54.25	9.65
2	5460.00	45.9 AV	54.0	-8.1	1.22 V	296	36.25	9.65
3	#5470.00	66.5 PK	74.0	-7.5	1.22 V	296	56.81	9.69
4	#5470.00	50.2 AV	54.0	-3.8	1.22 V	296	40.51	9.69
5	*5500.00	108.1 PK			1.22 V	296	98.29	9.81
6	*5500.00	96.5 AV			1.22 V	296	86.69	9.81
7	11000.00	48.1 PK	74.0	-25.9	1.23 V	322	30.50	17.60
8	11000.00	35.7 AV	54.0	-18.3	1.23 V	322	18.10	17.60
9	#16500.00	58.6 PK	74.0	-15.4	1.38 V	221	34.46	24.14
10	#16500.00	46.7 AV	54.0	-7.3	1.38 V	221	22.56	24.14

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) – Pre-Amplifier 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 104	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	56.1 PK	74.0	-17.9	1.06 H	360	46.45	9.65
2	5460.00	42.0 AV	54.0	-12.0	1.06 H	360	32.35	9.65
3	#5470.00	53.9 PK	74.0	-20.1	1.06 H	360	44.21	9.69
4	#5470.00	42.3 AV	54.0	-11.7	1.06 H	360	32.61	9.69
5	*5520.00	106.3 PK			1.06 H	360	96.44	9.86
6	*5520.00	92.1 AV			1.06 H	360	82.24	9.86
7	#5725.00	54.2 PK	74.0	-19.8	1.06 H	360	43.82	10.38
8	#5725.00	41.4 AV	54.0	-12.6	1.06 H	360	31.02	10.38
9	11040.00	49.3 PK	74.0	-24.7	1.25 H	111	31.91	17.39
10	11040.00	36.6 AV	54.0	-17.4	1.25 H	111	19.21	17.39
11	#16560.00	57.9 PK	74.0	-16.1	1.22 H	255	33.20	24.70
12	#16560.00	45.5 AV	54.0	-8.5	1.22 H	255	20.80	24.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.5 PK	74.0	-17.5	1.22 V	294	46.85	9.65
2	5460.00	42.1 AV	54.0	-11.9	1.22 V	294	32.45	9.65
3	#5470.00	54.1 PK	74.0	-19.9	1.22 V	294	44.41	9.69
4	#5470.00	42.3 AV	54.0	-11.7	1.22 V	294	32.61	9.69
5	*5520.00	112.1 PK			1.22 V	294	102.24	9.86
6	*5520.00	98.5 AV			1.22 V	294	88.64	9.86
7	#5725.00	54.6 PK	74.0	-19.4	1.22 V	294	44.22	10.38
8	#5725.00	41.3 AV	54.0	-12.7	1.22 V	294	30.92	10.38
9	11040.00	49.3 PK	74.0	-24.7	1.21 V	300	31.91	17.39
10	11040.00	37.1 AV	54.0	-16.9	1.21 V	300	19.71	17.39
11	#16560.00	58.4 PK	74.0	-15.6	1.35 V	211	33.70	24.70
12	#16560.00	46.1 AV	54.0	-7.9	1.35 V	211	21.40	24.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	5460.00	55.8 PK	74.0	-18.2	1.06 H	360	46.15	9.65
2	5460.00	41.5 AV	54.0	-12.5	1.06 H	360	31.85	9.65
3	#5470.00	53.8 PK	74.0	-20.2	1.06 H	360	44.11	9.69
4	#5470.00	42.4 AV	54.0	-11.6	1.06 H	360	32.71	9.69
5	*5580.00	105.8 PK			1.06 H	360	95.76	10.04
6	*5580.00	92.2 AV			1.06 H	360	82.16	10.04
7	#5725.00	54.3 PK	74.0	-19.7	1.06 H	360	43.92	10.38
8	#5725.00	41.2 AV	54.0	-12.8	1.06 H	360	30.82	10.38
9	11160.00	49.0 PK	74.0	-25.0	1.35 H	122	31.97	17.03
10	11160.00	36.5 AV	54.0	-17.5	1.35 H	122	19.47	17.03
11	#16740.00	57.6 PK	74.0	-16.4	1.22 H	244	33.10	24.50
12	#16740.00	45.5 AV	54.0	-8.5	1.22 H	244	21.00	24.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.1 PK	74.0	-17.9	1.22 V	295	46.45	9.65
2	5460.00	41.8 AV	54.0	-12.2	1.22 V	295	32.15	9.65
3	#5470.00	53.7 PK	74.0	-20.3	1.22 V	295	44.01	9.69
4	#5470.00	42.0 AV	54.0	-12.0	1.22 V	295	32.31	9.69
5	*5580.00	111.9 PK			1.22 V	295	101.86	10.04
6	*5580.00	98.1 AV			1.22 V	295	88.06	10.04
7	#5725.00	54.9 PK	74.0	-19.1	1.22 V	295	44.52	10.38
8	#5725.00	41.7 AV	54.0	-12.3	1.22 V	295	31.32	10.38
9	11160.00	49.2 PK	74.0	-24.8	1.22 V	311	32.17	17.03
10	11160.00	36.9 AV	54.0	-17.1	1.22 V	311	19.87	17.03
11	#16740.00	58.7 PK	74.0	-15.3	1.33 V	215	34.20	24.50
12	#16740.00	46.5 AV	54.0	-7.5	1.33 V	215	22.00	24.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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	5460.00	54.6 PK	74.0	-19.4	1.10 H	350	44.95	9.65
2	5460.00	41.2 AV	54.0	-12.8	1.10 H	350	31.55	9.65
3	#5470.00	54.6 PK	74.0	-19.4	1.10 H	350	44.91	9.69
4	#5470.00	41.7 AV	54.0	-12.3	1.10 H	350	32.01	9.69
5	*5660.00	105.2 PK			1.10 H	350	94.96	10.24
6	*5660.00	91.5 AV			1.10 H	350	81.26	10.24
7	#5725.00	62.3 PK	74.0	-11.7	1.10 H	350	51.92	10.38
8	#5725.00	45.9 AV	54.0	-8.1	1.10 H	350	35.52	10.38
9	11320.00	47.7 PK	74.0	-26.3	1.40 H	108	30.07	17.63
10	11320.00	35.5 AV	54.0	-18.5	1.40 H	108	17.87	17.63
11	#16980.00	57.3 PK	74.0	-16.7	1.23 H	230	31.86	25.44
12	#16980.00	45.2 AV	54.0	-8.8	1.23 H	230	19.76	25.44
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	54.8 PK	74.0	-19.2	1.21 V	298	45.15	9.65
2	5460.00	41.3 AV	54.0	-12.7	1.21 V	298	31.65	9.65
3	#5470.00	54.1 PK	74.0	-19.9	1.21 V	298	44.41	9.69
4	#5470.00	41.3 AV	54.0	-12.7	1.21 V	298	31.61	9.69
5	*5660.00	112.3 PK			1.21 V	298	102.06	10.24
6	*5660.00	98.4 AV			1.21 V	298	88.16	10.24
7	#5725.00	61.9 PK	74.0	-12.1	1.21 V	298	51.52	10.38
8	#5725.00	45.6 AV	54.0	-8.4	1.21 V	298	35.22	10.38
9	11320.00	49.2 PK	74.0	-24.8	1.21 V	300	31.57	17.63
10	11320.00	37.1 AV	54.0	-16.9	1.21 V	300	19.47	17.63
11	#16980.00	59.1 PK	74.0	-14.9	1.35 V	216	33.66	25.44
12	#16980.00	47.0 AV	54.0	-7.0	1.35 V	216	21.56	25.44

REMARKS:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	102.9 PK			1.07 H	353	92.56	10.34
2	*5700.00	90.1 AV			1.07 H	353	79.76	10.34
3	#5725.00	65.9 PK	74.0	-8.1	1.07 H	353	55.52	10.38
4	#5725.00	45.5 AV	54.0	-8.5	1.07 H	353	35.12	10.38
5	11400.00	48.8 PK	74.0	-25.2	1.35 H	121	31.28	17.52
6	11400.00	36.5 AV	54.0	-17.5	1.35 H	121	18.98	17.52
7	#17100.00	56.5 PK	74.0	-17.5	1.20 H	245	31.21	25.29
8	#17100.00	44.5 AV	54.0	-9.5	1.20 H	245	19.21	25.29
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	109.1 PK			1.21 V	307	98.76	10.34
2	*5700.00	96.5 AV			1.21 V	307	86.16	10.34
3	#5725.00	70.7 PK	74.0	-3.3	1.21 V	307	60.32	10.38
4	#5725.00	50.7 AV	54.0	-3.3	1.21 V	307	40.32	10.38
5	11400.00	49.0 PK	74.0	-25.0	1.21 V	330	31.48	17.52
6	11400.00	36.5 AV	54.0	-17.5	1.21 V	330	18.98	17.52
7	#17100.00	58.8 PK	74.0	-15.2	1.34 V	219	33.51	25.29
8	#17100.00	46.9 AV	54.0	-7.1	1.34 V	219	21.61	25.29

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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 TRANSMIT POWER MEASUREMENT

4.2.1 LIMITS OF 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 bandwidth in MHz.

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

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

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

4.2.2 TEST INSTRUMENTS

FOR POWER OUTPUT MEASUREMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power Meter	ML2495A	1014008	Apr. 23, 2013	Apr. 22, 2014
Power Sensor	MA2411B	0917122	Apr. 23, 2013	Apr. 22, 2014

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 : Aug. 14 and Sep. 02, 2013

4.2.3 TEST PROCEDURE

FOR POWER OUTPUT MEASUREMENT

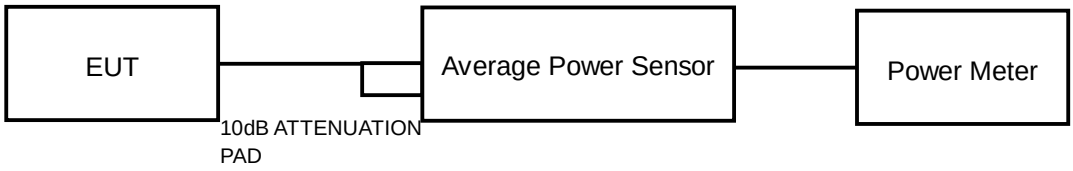
Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



4.2.6 EUT OPERATING CONDITIONS

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

4.2.7 TEST RESULTS

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	23.496	13.71	17	PASS
40	5200	33.343	15.23	17	PASS
44	5220	33.189	15.21	17	PASS
48	5240	31.477	14.98	17	PASS
52	5260	82.985	19.19	24	PASS
60	5300	85.901	19.34	24	PASS
64	5320	37.154	15.70	24	PASS
100	5500	45.499	16.58	24	PASS
104	5520	99.312	19.97	24	PASS
116	5580	101.391	20.06	24	PASS
132	5660	82.224	19.15	24	PASS
140	5700	38.994	15.91	24	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	25.468	14.06	17	PASS
40	5200	31.623	15.00	17	PASS
44	5220	33.037	15.19	17	PASS
48	5240	32.810	15.16	17	PASS
52	5260	63.680	18.04	24	PASS
60	5300	63.826	18.05	24	PASS
64	5320	53.580	17.29	24	PASS
100	5500	53.088	17.25	24	PASS
104	5520	73.114	18.64	24	PASS
116	5580	73.451	18.66	24	PASS
132	5660	68.707	18.37	24	PASS
140	5700	38.815	15.89	24	PASS

5. INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26052943

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Web Site: www.bureauveritas-adt.com

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

6.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.

7.APPENDIX B – Change List

Please refer to the declaration as below:

- **u** Add one new Stubby antenna of the EUT.

--- END ---