TEST REPORT

REGULATIONS : **FCC Part15 C §15.247**
RSS-210 Issue 8

Applicant	Testing Laboratory
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Equipment Type	VHF DIGITAL TRANSCEIVER with Bluetooth
Trademark	KENWOOD
FCC Model(s)	NX-5700-K, NX-5700-F
IC Model(s)	NX-5700-K
Serial No.	No.29 (for Radiated testing) No.21 (for Antenna Port Conductive testing)
FCC ID	K44471100
IC CN and UPN	282F-471100
Test Result	Complied
Report Number	14100003JMA-001
Original Issue Date	November 14, 2014
Revised Issue Date	December 03, 2014

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SECTION 1. GENERAL INFORMATION

Test Performed

EUT Received	October 6, 2014
Date of Test	From October 7 2014 to November 6, 2014
Standard Applied	FCC Part15 C §15.247 RSS-210 Issue 8
Test methods	FCC Public Notice DA 00-705 ANSI C63.4-2003 RSS-210 Issue 8 RSS-Gen Issue 3
Deviation from Standard(s)	None

Qualifications of Testing Laboratory

Accreditation	**Scope**	**Lab. Code**	**Remarks**
VLAC	EMC Testing	VLAC-008-3	JAPAN
BSMI	EMC Testing	SL2-IN-E-6009	TAIWAN
Filing			
VCCI	EMC Testing	A-0127	JAPAN
FCC	EMC Testing	Designation Number : JP0009	USA
IC	EMC Testing	2042S-1, 2042S-2, 2042S-3, 2042S-4	Canada
CB-Scheme	EMC Testing	TL223	IECEE
SAUDI ARABIA	EMC Testing	N/A	

Abbreviations

EUT	Equipment Under Test	DoC	Declaration of Conformity
AMN	Artificial Mains Network	ISN	Impedance Stabilization Network
LISN	Line Impedance Stabilization Network	Q-P	Quasi-peak
AMP	Amplifier	AVG	Average
ATT	Attenuator	PK	Peak
ANT	Antenna	Cal	Calibration
BBA	Broadband Antenna	N/A	Not applicable or Not available
DIP	Dipole Antenna	LCD	Liquid-Crystal Display
AE	Associated Equipment	HDMI	High-Definition Multimedia Interface

Revision Summary

Revised Date	Section	Description of Changes
Dec. 03, 2014	3.4	Added a note on the antenna requirement of FCC Part15C §15.203

SECTION 2. SUMMARY OF TEST RESULTS

Test Item	Specification	Results	Detail
20 dB Bandwidth and 99 % Occupied Bandwidth	FCC Part15C §15.247 (a) (1) RSS-210 A8.1 (a) RSS-Gen 4.6.1	N/A	Section 9.1
Maximum Peak Output Power	FCC Part15C §15.247 (b) (1) RSS-210 A8.4 (2)	PASS	Section 9.2
Carrier Frequency Separation	FCC Part15C §15.247 (a) (1) RSS-210 A8.1 (b)	PASS	Section 9.3
Number of Hopping Frequency	FCC Part15C §15.247 (a) (1) (iii) RSS-210 A8.1 (d)	PASS	Section 9.4
Time of occupancy	FCC Part15C §15.247 (a) (1) (iii) RSS-210 A8.1 (d)	PASS	Section 9.5
Radiated Spurious Emissions and Restrict Band edge	FCC Part15C §15.209, §15.205 RSS-210 2.2, A8.5	PASS	Section 9.6
Band Edge of Authorized Frequency Band	FCC Part15C §15.247 (d) RSS-210 A8.5	PASS	Section 9.7
Spurious RF Conducted Emissions	FCC Part15C §15.247 (d) RSS-210 A8.5	PASS	Section 9.8
AC Conducted Emissions	FCC Part15C §15.207 RSS-Gen 7.2.2	PASS	Section 9.9
Receiver Spurious Emissions	RSS-Gen 6.1	PASS	Section 9.10

Limitation on Results

The test result of this report is effective equipment under test itself and under the test configuration described on the report.
This test report does not assure that whether the test result taken in other testing laboratory is compatible or reproducible to the test result on this report or not.

SECTION 3. EQUIPMENT UNDER TEST

The equipment under test (EUT) consisted of the following apparatus.

3.1 System Configuration

Symbol	Item	Model No.	Serial No.	Manufacturer
A	VHF DIGITAL TRANSCEIVER with Bluetooth	NX-5700-K NX-5700-F	No.29 (for Radiated testing) No.21 (for ANT Port Conductive testing)	JVC KENWOOD Corporation
Rated Power : DC 13.6 V +/- 15 %, 13.0 A Maximum				
Supplied Power : DC 13.6 V				
Condition of Equipment	Prototype			
Type	Mobile type			
Suppression Devices	No Modifications by the laboratory were made to the device			

3.2 Port(s)/Connector(s)

Port Name	Connector Type	Connector Pin	Remarks
ACC	D-sub	25 pin	
External Speaker	3.5φ	2 pin	
RF Antenna	M	2 pin	
Microphone	RJ-45	8 pin	
GPS Antenna	SMA	2 pin	
Ignition sense	Original	2 pin	

3.3 Highest Frequency Generated / Used

Operating Frequency	Board Name	Remarks
223.95 MHz	TXRX UNIT	
4960 MHz	Bluetooth UNIT	

3.4 Over View of EUT

Access method	Bluetooth Version 3.0
Rated Output Power	2.5 mW
Frequency Range of Operating	2402 – 2480 MHz
Number of Channels	79 ch, 1 MHz step
Modulation Method	FHSS (GFSK, π/4DQPSK, 8DPSK)
Antenna Type and Gain	Integrated Printed PCB Antenna, 1.69 dBi See Note 1
Antenna Connector	None

Note:
1. The EUT comply with the requirement of FCC Part15C §15.203, because
   (1) The antenna was built in the EUT and permanently attached.
   (2) There were no other antenna connectors.

SECTION 4. SUPPORT EQUIPMENT

The EUT was supported by the following equipment during the test.

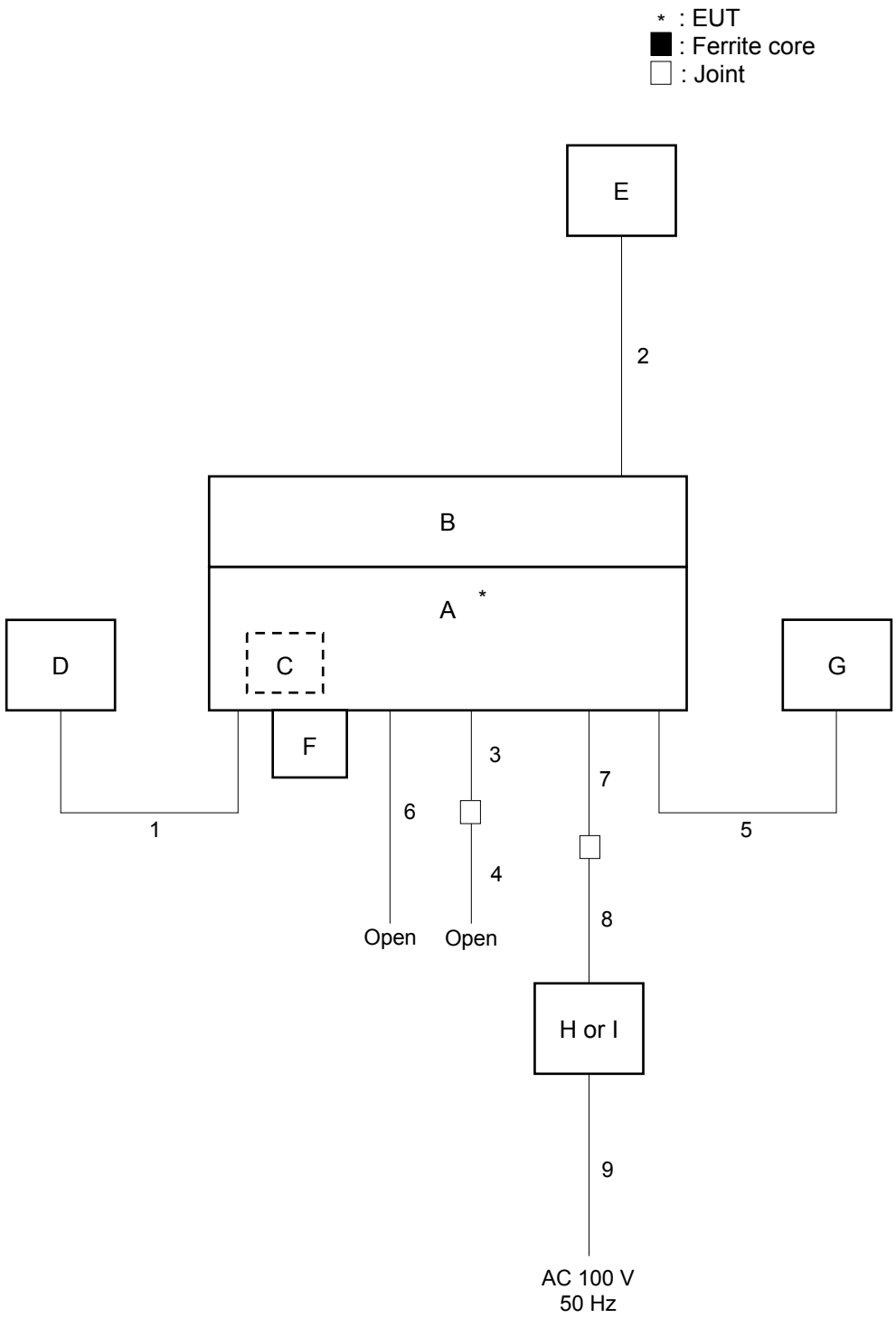
Symbol	Item	Model No.	Serial No.	Manufacturer	FCC ID
B	REMOTE CONTROL HEAD	KCH-19	No.29 (for Radiated testing) No.21 (for ANT Port Conductive testing)	JVC KENWOOD Corporation	N/A
C	SECURE CRYPTOGRAPHIC MODULE	KWD-AE30	No.29 (for Radiated testing) No.21 (for ANT Port Conductive testing)	JVC KENWOOD Corporation	N/A
D	External Speaker	KES-3	No.1	JVC KENWOOD Corporation	N/A
E	Microphone with 12-Keypad	KMC-36	CGI-51327	JVC KENWOOD Corporation	N/A
F	Dummy Load	SK-50	None	JVC KENWOOD Corporation	N/A
G	GPS Antenna	KRA-40	N/A	JVC KENWOOD Corporation	N/A
H	DC Power Supply (1)	PAB 25-1TR	28020014	KIKUSUI	N/A
I	DC Power Supply (2)	PMC35-3A	LE000716	KIKUSUI	N/A
Supplied Power:					
H, I	AC 100 V, 50 Hz				

SECTION 5. USED CABLE(S)

The following cable(s) was used for the test.

No.	Name	Length (m)	Shield	Metal Connector	Ferrite Core
1	Speaker cable	2.90	No	No	
2	Mic. Cable	0.55	No	No	
3	Ignition sense cable	0.12	No	No	
4	KCT-46 (Ignition sense cable)	3.10	No	No	
5	GPS Antenna cable	2.00	No	No	
6	ACC cable	1.80	Yes	Yes	
7	DC cable	0.25	No	No	
8	DC cable	3.40	No	No	
9	Power cable for DC Power Supply	2.00	No	No	

SECTION 6. TEST CONFIGURATION



The symbols and numbers assigned to the equipment and cables on this diagram correspond to the ones in Sections 3 to 5.

SECTION 7. OPERATING CONDITION

The test was carried out under the following mode.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

7.1 Test Channel

In accordance with Section 15.31 (m), all test items was conducted in the following three channels:

Test Channel	Frequency [MHz]
Low	2402
Middle	2441
High	2480

7.2 Test modes

Test Item	Operating modes
Maximum Peak Output Power	Hopping OFF DH1, DH3, DH5 2-DH1, 2-DH3, 2-DH5 3-DH1, 3-DH3, 3-DH5
Carrier Frequency Separation	Hopping ON DH5, 2-DH5, 3-DH5
Number of Hopping Frequency	Hopping ON DH5, 2-DH5, 3-DH5
Time of occupancy	Hopping OFF DH1, DH3, DH5 2-DH1, 2-DH3, 2-DH5 3-DH1, 3-DH3, 3-DH5
Radiated Spurious Emissions and Restrict Band edge	Hopping OFF DH5, 2-DH5, 3-DH5
Band Edge of Authorized Frequency Band	Hopping OFF/ON DH5, 2-DH5, 3-DH5
Spurious RF Conducted Emissions	Hopping ON DH5, 2-DH5, 3-DH5
AC Conducted Emissions	Hopping ON DH5, 2-DH5, 3-DH5
Receiver Spurious Emissions	Transmit OFF, Receive mode

Note: The Test modes were configured in typical fashion as a customer would normally use it.

SECTION 8. UNCERTAINTY

The following uncertainty represents the expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of *k* = 2.
Traceability to national standard in SI units is ensured with these values.
Compliance with the limits in this standard are determined without in consideration of the measurement uncertainty of the measurement instrumentation.

8.1 Emission tests

Test items	U_{lab} [*k* = 2]	U_{cispr}
Radiated Spurious Emissions at 3m		
30 MHz – 1000 MHz	+/- 3.96 dB	6.3 dB
Above 1 GHz	+/- 4.46 dB	5.2 dB
AC Conducted Emissions		
150 kHz – 30 MHz	+/- 1.54 dB	3.4 dB

The above expanded instrumentation uncertainty, $U_{lab.}$, is estimated in accordance with CISPR 16-4-2:2011.

8.2 RF Conducted tests

Test Items	U_{lab} [*k* = 2]
Bandwidth	+/- 1.42 %
Conducted Emissions	+/- 1.82 dB

SECTION 9. TEST DATA

9.1 20 dB Bandwidth and 99 % Occupied Bandwidth

Regulations	FCC Part15C §15.247 (a) (1) RSS-210 A8.1 (a) RSS-Gen 4.6.1
Test Method/Guide	FCC Public Notice DA 00-705

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.1.
2. Adjust the test instrument for the following setting:

RBW	:	≥ 1 % of the 20 dB bandwidth
VBW	:	≥ 3 x RBW
Span	:	approximately 3 times the 20 dB bandwidth
Detector	:	Peak
Sweep Time	:	Auto
Trace mode	:	Max Hold

3. Allow trace to fully stabilize.
4. Use “Occupied Bandwidth Measurement” function to measure the 20 dB bandwidth.

Test Result

Location	Matsuda No.4 Test Site
Test date	Oct. 08, 2014
Temperature	24.0 [degree C]
Humidity variation	55.0 [%]
Test Engineer	Shiro Kobayashi

Operating modes	Frequency [MHz]	20 dB Bandwidth [MHz]	99 % Bandwidth [MHz]
DH5	2402	0.921	0.838
	2441	0.923	0.840
	2480	0.917	0.838
2-DH5	2402	1.284	1.185
	2441	1.285	1.183
	2480	1.284	1.183
3-DH5	2402	1.296	1.188
	2441	1.301	1.189
	2480	1.300	1.187

Spectrum Plots

See ANNEX A.1.

9.2 Maximum Peak Output Power

Regulations	FCC Part15C §15.247 (b) (1) RSS-210 A8.4 (2)
Test Method/Guide	FCC Public Notice DA 00-705

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.1.
2. Adjust the test instrument for the following setting:

RBW	:	≥ 1 % of the 20 dB bandwidth
VBW	:	≥ 3 x RBW
Span	:	approximately 5 times the 20 dB bandwidth
Detector	:	Peak
Sweep Time	:	Auto
Trace mode	:	Max Hold

Note: The value of the “20 dB bandwidth”, from the result of section 9.1.

3. Allow trace to fully stabilize.
4. Use the peak search function to measure the peak of the emission.
5. Measurement data correction;

Measured Value [dBm] = Reading [dBm] + Factor [dB]

*Factor = Cable Loss [dB] + Attenuator [dB]

Margin [dB] = Limit [dBm] - Measured Value [dBm]

Test Result

Location	Matsuda No.4 Test Site
Test date	Oct. 08, 2014
Temperature	24.0 [degree C]
Humidity variation	55.0 [%]
Test Engineer	Shiro Kobayashi

Operating modes	Freq. [MHz]	Reading [dBm]	Factor [dB]	Measured Value [dBm]	Limit		Margin [dB]
					[mW]	[dBm]	
DH1	2402	-20.83	20.57	-0.26	125	20.97	21.23
	2441	-21.22	20.57	-0.64			21.61
	2480	-21.07	20.58	-0.49			21.46
DH3	2402	-20.88	20.57	-0.31			21.28
	2441	-21.24	20.57	-0.66			21.63
	2480	-21.09	20.58	-0.51			21.48
DH5	2402	-20.90	20.57	-0.33			21.30
	2441	-21.26	20.57	-0.69			21.66
	2480	-21.11	20.58	-0.54			21.51
2-DH1	2402	-20.21	20.57	0.36			20.61
	2441	-20.54	20.57	0.03			20.94
	2480	-20.38	20.58	0.20			20.77
2-DH3	2402	-20.24	20.57	0.33			20.64
	2441	-20.58	20.57	-0.01			20.98
	2480	-20.41	20.58	0.17			20.80
2-DH5	2402	-20.24	20.57	0.33			20.64
	2441	-20.58	20.57	0.00			20.97
	2480	-20.40	20.58	0.18			20.79
3-DH1	2402	-19.61	20.57	0.96			20.01
	2441	-19.93	20.57	0.65			20.32
	2480	-19.75	20.58	0.83			20.14
3-DH3	2402	-19.61	20.57	0.96			20.01
	2441	-19.95	20.57	0.63			20.34
	2480	-19.76	20.58	0.82			20.15
3-DH5	2402	-19.58	20.57	0.99			19.98
	2441	-19.93	20.57	0.64			20.33
	2480	-19.75	20.58	0.83			20.14

Spectrum Plots

See ANNEX A.2

9.3 Carrier Frequency Separation

Regulations	FCC Part15C §15.247 (a) (1) RSS-210 A8.1 (b)
Test Method/Guide	FCC Public Notice DA 00-705

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.1.
2. Adjust the test instrument for the following setting:

RBW	:	≥ 1 % of the span
VBW	:	≥ 3 x RBW
Span	:	Including emission band
Detector	:	Peak
Sweep Time	:	Auto
Trace mode	:	Max Hold

3. Allow trace to fully stabilize.
4. Use delta marker function to measure the separation between the two channels.

Test Result

Location	Matsuda No.4 Test Site
Test date	Oct. 08, 2014
Temperature	24.0 [degree C]
Humidity variation	55.0 [%]
Test Engineer	Shiro Kobayashi

Operating modes	Frequency [MHz]	Measured Value [MHz]	Limit [MHz]
DH5	2402	1.000	≥ 0.614
	2441	1.000	≥ 0.614
	2480	1.000	≥ 0.611
2-DH5	2402	1.000	≥ 0.856
	2441	1.000	≥ 0.857
	2480	1.000	≥ 0.856
3-DH5	2402	1.000	≥ 0.864
	2441	1.000	≥ 0.867
	2480	1.000	≥ 0.867

Note: Limits were applied to two-thirds of 20 dB bandwidth.
The value of the “20 dB bandwidth”, from the result of section 9.1.

Spectrum Plots

See ANNEX A.3

9.4 Number of Hopping Frequency

Regulations	FCC Part15C §15.247 (a) (1) (iii) RSS-210 A8.1 (d)
Test Method/Guide	FCC Public Notice DA 00-705

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.1.
2. Adjust the test instrument for the following setting:

RBW	:	≥ 1% of the span
VBW	:	≥ 3 x RBW
Span	:	Including emission band
Detector	:	Peak
Sweep Time	:	Auto
Trace mode	:	Max Hold

3. Allow trace to fully stabilize.
4. Count the peaks.

Test Result

Location	Matsuda No.4 Test Site
Test date	Oct. 08, 2014
Temperature	24.0 [degree C]
Humidity variation	55.0 [%]
Test Engineer	Shiro Kobayashi

Operating modes	Measured Value	Limit
DH5	79	≥ 15
2-DH5	79	
3-DH5	79	

Spectrum Plots

See ANNEX A.4

9.5 Time of Occupancy

Regulations	FCC Part15C §15.247 (a) (1) (iii) RSS-210 A8.1 (d)
Test Method/Guide	FCC Public Notice DA 00-705

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.1.
2. Adjust the test instrument for the following setting:

RBW	:	1 MHz
VBW	:	3 MHz
Span	:	0 Hz
Detector	:	Peak
Sweep Time	:	As necessary to capture the entire dwell time per hopping channel
Trace mode	:	Single, Use Video Trigger

3. Use delta marker function to measure the transmit time as per hop.
4. By the following method, calculated time of occupancy;

(1) Number of hops per sec
= 1600 / 1 time slots / 1 [sec]. * 1 time slots : 2 for DH1 packet
4 for DH3 packet
6 for DH5 packet

(2) Number of hops per sec in each channel
= Number of hops per sec / number of hopping channel.

(3) Specified periods [sec]
= 0.4 [sec] x number of hopping channels.

(4) Number of hops per specified periods in each channel
= Number of hops per sec in each channel x Specified periods [sec].

(5) Time of occupancy [ms]
= Number of hops per specified periods in each channel x the transmit time as per hop [ms].

Test Result

Test date	Oct. 10, 2014
Location	Matsuda No.4 Test Site
Temperature	24.0 [degree C]
Humidity variation	60.0 [%]
Test Engineer	Shiro Kobayashi

Operating modes	Number of hops per channel in specified period	Transmit Time per Hop [ms]	Time of Occupancy [ms]	Limit [ms]
DH1	320.00	0.3987	127.58	400.00
DH3	160.00	1.6550	264.80	
DH5	106.67	2.9030	309.65	
2-DH1	320.00	0.3134	100.29	
2-DH3	160.00	0.9374	149.98	
2-DH5	106.67	1.5670	167.15	
3-DH1	320.00	0.2785	89.12	
3-DH3	160.00	0.6940	111.04	
3-DH5	106.67	1.1100	118.40	

Spectrum Chart

See ANNEX A.5

9.6 Radiated Spurious Emissions and Band Edge of Restrict Band

Regulations	FCC Part15C §15.209, §15.205 RSS-210 2.2, A8.5
Test Method/Guide	ANSI C63.4-2003

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.3.
2. The measurement antenna was placed at a distance of 3 m from the EUT.
4. The turntable azimuth (EUT direction) and antenna height are adjusted the position so that maximum field strength is obtained for each frequency spectrum to be measured.
   The equipment and cables are arranged or manipulated within the range of the test standard in the above condition. At least six highest spectrums are measured by the test receiver (below 1 GHz) and spectrum analyzer (above 1 GHz).
5. Adjust the test instrument for the following setting:

Frequency	Instruments	Detector	RBW	VBW	Remarks
30 – 1000 MHz	CISPR Receiver	QP	120 kHz	N/A	-
Above 1000 MHz	Spectrum Analyzer	Peak	1 MHz	1 MHz	for Peak
				10 Hz	for Average

6. Measurement data correction;

   Emission Level [dBuV/m] = Reading [dBuV] + Factor [dB/m]

   Margin [dB] = Limit [dBuV/m] – Emission Level [dBuV/m]

   * Factor = Antenna Factor + Amplifier gain + Cable loss + Attenuator (+ Filter)

Note: Did not carried out the fainal measurement about frequency range of 9 kHz to 30 MHz, because result of pre-check in shield room, spurious emissions was not detected.

Test Result

Operating mode	DH5, 2402 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.7	-6.7	-	21.0	40.0	-	19.0
2	132.48	QP	30.7	32.2	-7.2	23.5	25.0	43.5	20.0	18.5
3	186.24	QP	30.0	29.7	-7.5	22.5	22.2	43.5	21.0	21.3
4	205.44	QP	32.1	28.6	-8.3	23.8	20.3	43.5	19.7	23.2
5	224.64	QP	35.7	31.1	-7.5	28.2	23.6	46.0	17.8	22.4
6	288.00	QP	41.2	35.6	-5.0	36.2	30.6	46.0	9.8	15.4
7	326.40	QP	32.2	24.2	-3.7	28.5	20.5	46.0	17.5	25.5
8	633.60	QP	22.7	22.8	4.7	27.4	27.5	46.0	18.6	18.5
9	902.40	QP	21.7	20.6	8.9	30.6	29.5	46.0	15.4	16.5
10	1171.20	PEK	38.5	38.0	-3.6	34.9	34.4	74.0	39.1	39.6
11	1171.20	AVG	27.6	27.4	-3.6	24.0	23.8	54.0	30.0	30.2
12*	2376.91	PEK	47.0	49.3	3.8	50.8	53.1	74.0	23.2	20.9
13*	2376.91	AVG	28.6	28.6	3.8	32.4	32.4	54.0	21.6	21.6
14	4804.00	PEK	36.9	37.3	7.7	44.6	45.0	74.0	29.4	29.0
15	4804.00	AVG	26.5	26.5	7.7	34.2	34.2	54.0	19.8	19.8
16	6400.00	PEK	38.7	40.3	9.8	48.5	50.1	74.0	25.5	23.9
17	6400.00	AVG	27.9	29.7	9.8	37.7	39.5	54.0	16.3	14.5
18	7206.00	PEK	36.7	36.2	12.6	49.3	48.8	74.0	24.7	25.2
19	7206.00	AVG	26.0	25.9	12.6	38.6	38.5	54.0	15.4	15.5
20	9608.00	PEK	34.7	34.7	17.1	51.8	51.8	74.0	22.2	22.2
21	9608.00	AVG	24.9	24.9	17.1	42.0	42.0	54.0	12.0	12.0

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	DH5, 2441 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.4	-6.7	-	20.7	40.0	-	19.3
2	132.48	QP	30.7	32.2	-7.2	23.5	25.0	43.5	20.0	18.5
3	186.24	QP	29.9	30.0	-7.5	22.4	22.5	43.5	21.1	21.0
4	205.44	QP	32.0	29.0	-8.3	23.7	20.7	43.5	19.8	22.8
5	224.64	QP	35.7	30.9	-7.5	28.2	23.4	46.0	17.8	22.6
6	288.00	QP	41.1	35.7	-5.0	36.1	30.7	46.0	9.9	15.3
7	326.40	QP	32.3	24.1	-3.7	28.6	20.4	46.0	17.4	25.6
8	633.60	QP	22.6	22.8	4.7	27.3	27.5	46.0	18.7	18.5
9	902.40	QP	21.7	20.8	8.9	30.6	29.7	46.0	15.4	16.3
10	1171.20	PEK	38.4	38.1	-3.6	34.8	34.5	74.0	39.2	39.5
11	1171.20	AVG	27.4	27.4	-3.6	23.8	23.8	54.0	30.2	30.2
12*	2390.00	PEK	39.9	40.3	3.8	43.7	44.1	74.0	30.3	29.9
13*	2390.00	AVG	28.5	28.6	3.8	32.3	32.4	54.0	21.7	21.6
14	4882.00	PEK	37.1	36.5	7.8	44.9	44.3	74.0	29.1	29.7
15	4882.00	AVG	27.4	27.1	7.8	35.2	34.9	54.0	18.8	19.1
16	6400.00	PEK	38.0	39.5	9.8	47.8	49.3	74.0	26.2	24.7
17	6400.00	AVG	27.8	29.1	9.8	37.6	38.9	54.0	16.4	15.1
18	7323.00	PEK	35.7	35.1	13.0	48.7	48.1	74.0	25.3	25.9
19	7323.00	AVG	25.1	25.1	13.0	38.1	38.1	54.0	15.9	15.9
20	9764.00	PEK	35.7	35.4	17.2	52.9	52.6	74.0	21.1	21.4
21	9764.00	AVG	25.3	25.3	17.2	42.5	42.5	54.0	11.5	11.5

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	DH5, 2480 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.8	-6.7	-	21.1	40.0	-	18.9
2	132.48	QP	30.6	32.1	-7.2	23.4	24.9	43.5	20.1	18.6
3	186.24	QP	29.8	29.9	-7.5	22.3	22.4	43.5	21.2	21.1
4	205.44	QP	31.9	28.7	-8.3	23.6	20.4	43.5	19.9	23.1
5	224.64	QP	35.7	30.9	-7.5	28.2	23.4	46.0	17.8	22.6
6	288.00	QP	41.2	35.5	-5.0	36.2	30.5	46.0	9.8	15.5
7	326.40	QP	32.4	24.2	-3.7	28.7	20.5	46.0	17.3	25.5
8	633.60	QP	22.7	22.6	4.7	27.4	27.3	46.0	18.6	18.7
9	902.40	QP	22.0	20.7	8.9	30.9	29.6	46.0	15.1	16.4
10	1171.20	PEK	38.3	38.3	-3.6	34.7	34.7	74.0	39.3	39.3
11	1171.20	AVG	27.6	27.3	-3.6	24.0	23.7	54.0	30.0	30.3
12*	2483.50	PEK	40.3	43.5	3.9	44.2	47.4	74.0	29.8	26.6
13*	2483.50	AVG	30.3	31.7	3.9	34.2	35.6	54.0	19.8	18.4
14	2499.18	PEK	39.6	39.5	3.9	43.5	43.4	74.0	30.5	30.6
15	2499.18	AVG	29.6	29.9	3.9	33.5	33.8	54.0	20.5	20.2
16	2505.74	PEK	46.5	48.2	4.0	50.5	52.2	74.0	23.5	21.8
17	2505.74	AVG	27.5	29.0	4.0	31.5	33.0	54.0	22.5	21.0
18	4960.00	PEK	37.1	36.5	7.9	45.0	44.4	74.0	29.0	29.6
19	4960.00	AVG	27.0	27.1	7.9	34.9	35.0	54.0	19.1	19.0
20	6400.00	PEK	38.0	39.0	9.8	47.8	48.8	74.0	26.2	25.2
21	6400.00	AVG	27.8	29.2	9.8	37.6	39.0	54.0	16.4	15.0
22	7440.00	PEK	34.5	35.1	13.6	48.1	48.7	74.0	25.9	25.3
23	7440.00	AVG	24.6	24.6	13.6	38.2	38.2	54.0	15.8	15.8
24	9920.00	PEK	34.8	34.4	17.6	52.4	52.0	74.0	21.6	22.0
25	9920.00	AVG	24.4	24.5	17.6	42.0	42.1	54.0	12.0	11.9

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	2-DH5, 2402 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	28.1	-6.7	-	21.4	40.0	-	18.6
2	132.48	QP	30.6	32.1	-7.2	23.4	24.9	43.5	20.1	18.6
3	186.24	QP	29.9	29.7	-7.5	22.4	22.2	43.5	21.1	21.3
4	205.44	QP	31.9	28.5	-8.3	23.6	20.2	43.5	19.9	23.3
5	224.64	QP	35.4	30.7	-7.5	27.9	23.2	46.0	18.1	22.8
6	288.00	QP	40.8	35.4	-5.0	35.8	30.4	46.0	10.2	15.6
7	326.40	QP	31.8	23.9	-3.7	28.1	20.2	46.0	17.9	25.8
8	633.60	QP	22.6	22.7	4.7	27.3	27.4	46.0	18.7	18.6
9	902.40	QP	21.5	20.5	8.9	30.4	29.4	46.0	15.6	16.6
10	1171.20	PEK	38.4	38.9	-3.6	34.8	35.3	74.0	39.2	38.7
11	1171.20	AVG	27.7	27.4	-3.6	24.1	23.8	54.0	29.9	30.2
12	2338.06	PEK	55.3	59.9	3.8	59.1	63.7	74.0	14.9	10.3
13	2338.06	AVG	28.7	29.0	3.8	32.5	32.8	54.0	21.5	21.2
14*	2385.42	PEK	57.3	60.3	3.8	61.1	64.1	74.0	12.9	9.9
15*	2385.42	AVG	29.0	29.4	3.8	32.8	33.2	54.0	21.2	20.8
16	4804.00	PEK	36.5	37.3	7.7	44.2	45.0	74.0	29.8	29.0
17	4804.00	AVG	26.4	26.5	7.7	34.1	34.2	54.0	19.9	19.8
18	6400.00	PEK	38.8	40.0	9.8	48.6	49.8	74.0	25.4	24.2
19	6400.00	AVG	28.0	29.7	9.8	37.8	39.5	54.0	16.2	14.5
20	7206.00	PEK	35.6	36.3	12.6	48.2	48.9	74.0	25.8	25.1
21	7206.00	AVG	25.7	25.8	12.6	38.3	38.4	54.0	15.7	15.6
22	9608.00	PEK	35.8	34.5	17.1	52.9	51.6	74.0	21.1	22.4
23	9608.00	AVG	24.8	24.8	17.1	41.9	41.9	54.0	12.1	12.1
24	19216.00	PEK	36.0	35.3	11.0	47.0	46.3	74.0	27.0	27.7
25	19216.00	AVG	26.0	26.1	11.0	37.0	37.1	54.0	17.0	16.9

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	2-DH5, 2441 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.8	-6.7	-	21.1	40.0	-	18.9
2	132.48	QP	30.5	32.0	-7.2	23.3	24.8	43.5	20.2	18.7
3	186.24	QP	29.9	29.8	-7.5	22.4	22.3	43.5	21.1	21.2
4	205.44	QP	32.0	28.6	-8.3	23.7	20.3	43.5	19.8	23.2
5	224.64	QP	35.5	31.0	-7.5	28.0	23.5	46.0	18.0	22.5
6	288.00	QP	40.9	35.4	-5.0	35.9	30.4	46.0	10.1	15.6
7	326.40	QP	32.0	23.9	-3.7	28.3	20.2	46.0	17.7	25.8
8	633.60	QP	22.5	22.5	4.7	27.2	27.2	46.0	18.8	18.8
9	902.40	QP	21.5	20.6	8.9	30.4	29.5	46.0	15.6	16.5
10	1171.20	PEK	38.5	37.9	-3.6	34.9	34.3	74.0	39.1	39.7
11	1171.20	AVG	27.6	27.3	-3.6	24.0	23.7	54.0	30.0	30.3
12	2337.47	PEK	55.2	55.2	3.8	59.0	59.0	74.0	15.0	15.0
13	2337.47	AVG	28.7	28.8	3.8	32.5	32.6	54.0	21.5	21.4
14*	2388.78	PEK	57.7	57.9	3.8	61.5	61.7	74.0	12.5	12.3
15*	2388.78	AVG	28.8	28.8	3.8	32.6	32.6	54.0	21.4	21.4
16	4882.00	PEK	37.5	38.4	7.8	45.3	46.2	74.0	28.7	27.8
17	4882.00	AVG	27.5	27.5	7.8	35.3	35.3	54.0	18.7	18.7
18	6400.00	PEK	38.7	39.8	9.8	48.5	49.6	74.0	25.5	24.4
19	6400.00	AVG	28.0	29.3	9.8	37.8	39.1	54.0	16.2	14.9
20	7323.00	PEK	35.9	36.3	13.0	48.9	49.3	74.0	25.1	24.7
21	7323.00	AVG	25.1	25.0	13.0	38.1	38.0	54.0	15.9	16.0
22	9764.00	PEK	35.6	35.5	17.2	52.8	52.7	74.0	21.2	21.3
23	9764.00	AVG	25.3	25.3	17.2	42.5	42.5	54.0	11.5	11.5
24	19528.00	PEK	36.9	35.2	11.3	48.2	46.5	74.0	25.8	27.5
25	19528.00	AVG	26.5	25.9	11.3	37.8	37.2	54.0	16.2	16.8

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	2-DH5, 2480 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.6	-6.7	-	20.9	40.0	-	19.1
2	132.48	QP	30.6	32.4	-7.2	23.4	25.2	43.5	20.1	18.3
3	186.24	QP	29.9	29.8	-7.5	22.4	22.3	43.5	21.1	21.2
4	205.44	QP	31.9	28.7	-8.3	23.6	20.4	43.5	19.9	23.1
5	224.64	QP	35.5	30.9	-7.5	28.0	23.4	46.0	18.0	22.6
6	288.00	QP	40.8	35.4	-5.0	35.8	30.4	46.0	10.2	15.6
7	326.40	QP	32.0	23.8	-3.7	28.3	20.1	46.0	17.7	25.9
8	633.60	QP	22.6	22.6	4.7	27.3	27.3	46.0	18.7	18.7
9	902.40	QP	21.4	20.5	8.9	30.3	29.4	46.0	15.7	16.6
10	1171.20	PEK	38.4	38.4	-3.6	34.8	34.8	74.0	39.2	39.2
11	1171.20	AVG	27.7	27.4	-3.6	24.1	23.8	54.0	29.9	30.2
12	2336.47	PEK	55.6	59.5	3.8	59.4	63.3	74.0	14.6	10.7
13	2336.47	AVG	28.8	29.0	3.8	32.6	32.8	54.0	21.4	21.2
14*	2387.44	PEK	57.5	59.0	3.8	61.3	62.8	74.0	12.7	11.2
15*	2387.44	AVG	28.8	28.9	3.8	32.6	32.7	54.0	21.4	21.3
16*	2483.50	PEK	44.9	44.5	3.9	48.8	48.4	74.0	25.2	25.6
17*	2483.50	AVG	30.1	30.9	3.9	34.0	34.8	54.0	20.0	19.2
18	2502.27	PEK	43.8	47.3	4.0	47.8	51.3	74.0	26.2	22.7
19	2502.27	AVG	29.1	29.1	4.0	33.1	33.1	54.0	20.9	20.9
20	4960.00	PEK	37.9	37.4	7.9	45.8	45.3	74.0	28.2	28.7
21	4960.00	AVG	27.4	27.5	7.9	35.3	35.4	54.0	18.7	18.6
22	6400.00	PEK	38.9	39.3	9.8	48.7	49.1	74.0	25.3	24.9
23	6400.00	AVG	27.8	29.1	9.8	37.6	38.9	54.0	16.4	15.1
24	7440.00	PEK	34.6	36.6	13.6	48.2	50.2	74.0	25.8	23.8
25	7440.00	AVG	24.6	24.8	13.6	38.2	38.4	54.0	15.8	15.6
26	9920.00	PEK	34.8	35.0	17.6	52.4	52.6	74.0	21.6	21.4
27	9920.00	AVG	24.3	24.4	17.6	41.9	42.0	54.0	12.1	12.0
28	19840.00	PEK	36.1	35.4	11.6	47.7	47.0	74.0	26.3	27.0
29	19840.00	AVG	26.0	25.8	11.6	37.6	37.4	54.0	16.4	16.6

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	3-DH5, 2402 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.4	-6.7	-	20.7	40.0	-	19.3
2	132.48	QP	31.0	32.1	-7.2	23.8	24.9	43.5	19.7	18.6
3	186.24	QP	30.3	29.8	-7.5	22.8	22.3	43.5	20.7	21.2
4	205.44	QP	32.3	28.6	-8.3	24.0	20.3	43.5	19.5	23.2
5	224.64	QP	35.7	30.8	-7.5	28.2	23.3	46.0	17.8	22.7
6	288.00	QP	41.2	35.2	-5.0	36.2	30.2	46.0	9.8	15.8
7	326.40	QP	31.7	24.2	-3.7	28.0	20.5	46.0	18.0	25.5
8	633.60	QP	22.9	22.8	4.7	27.6	27.5	46.0	18.4	18.5
9	902.40	QP	21.7	20.7	8.9	30.6	29.6	46.0	15.4	16.4
10	1171.20	PEK	37.8	38.3	-3.6	34.2	34.7	74.0	39.8	39.3
11	1171.20	AVG	27.7	27.3	-3.6	24.1	23.7	54.0	29.9	30.3
12	2340.07	PEK	55.6	58.7	3.8	59.4	62.5	74.0	14.6	11.5
13	2340.07	AVG	28.7	28.9	3.8	32.5	32.7	54.0	21.5	21.3
14*	2387.34	PEK	58.0	59.6	3.8	61.8	63.4	74.0	12.2	10.6
15*	2387.34	AVG	29.3	29.4	3.8	33.1	33.2	54.0	20.9	20.8
16	4802.00	PEK	37.9	37.8	7.7	45.6	45.5	74.0	28.4	28.5
17	4802.00	AVG	26.9	26.5	7.7	34.6	34.2	54.0	19.4	19.8
18	6400.00	PEK	38.6	39.6	9.8	48.4	49.4	74.0	25.6	24.6
19	6400.00	AVG	27.9	28.7	9.8	37.7	38.5	54.0	16.3	15.5
20	7206.00	PEK	36.5	36.6	12.6	49.1	49.2	74.0	24.9	24.8
21	7206.00	AVG	25.9	25.9	12.6	38.5	38.5	54.0	15.5	15.5
22	9608.00	PEK	36.0	35.7	17.1	53.1	52.8	74.0	20.9	21.2
23	9608.00	AVG	24.8	24.8	17.1	41.9	41.9	54.0	12.1	12.1
24	19216.00	PEK	36.0	35.3	11.0	47.0	46.3	74.0	27.0	27.7
25	19216.00	AVG	26.0	26.1	11.0	37.0	37.1	54.0	17.0	16.9

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	3-DH5, 2441 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.4	-6.7	-	20.7	40.0	-	19.3
2	132.48	QP	30.8	32.1	-7.2	23.6	24.9	43.5	19.9	18.6
3	186.24	QP	29.9	29.6	-7.5	22.4	22.1	43.5	21.1	21.4
4	205.44	QP	31.9	28.7	-8.3	23.6	20.4	43.5	19.9	23.1
5	224.64	QP	35.4	30.7	-7.5	27.9	23.2	46.0	18.1	22.8
6	288.00	QP	40.9	35.4	-5.0	35.9	30.4	46.0	10.1	15.6
7	326.40	QP	31.6	23.8	-3.7	27.9	20.1	46.0	18.1	25.9
8	633.60	QP	22.4	22.6	4.7	27.1	27.3	46.0	18.9	18.7
9	902.40	QP	21.7	20.5	8.9	30.6	29.4	46.0	15.4	16.6
10	1171.20	PEK	38.5	38.2	-3.6	34.9	34.6	74.0	39.1	39.4
11	1171.20	AVG	27.7	27.4	-3.6	24.1	23.8	54.0	29.9	30.2
12	2338.61	PEK	55.5	58.2	3.8	59.3	62.0	74.0	14.7	12.0
13	2338.61	AVG	28.6	28.9	3.8	32.4	32.7	54.0	21.6	21.3
14*	2389.66	PEK	57.6	58.7	3.8	61.4	62.5	74.0	12.6	11.5
15*	2389.66	AVG	28.8	29.0	3.8	32.6	32.8	54.0	21.4	21.2
16	4882.00	PEK	37.7	37.1	7.8	45.5	44.9	74.0	28.5	29.1
17	4882.00	AVG	26.9	26.7	7.8	34.7	34.5	54.0	19.3	19.5
18	6400.00	PEK	38.8	39.2	9.8	48.6	49.0	74.0	25.4	25.0
19	6400.00	AVG	27.9	29.1	9.8	37.7	38.9	54.0	16.3	15.1
20	7323.00	PEK	35.2	35.2	13.0	48.2	48.2	74.0	25.8	25.8
21	7323.00	AVG	25.0	24.9	13.0	38.0	37.9	54.0	16.0	16.1
22	9764.00	PEK	35.6	35.5	17.2	52.8	52.7	74.0	21.2	21.3
23	9764.00	AVG	25.3	25.2	17.2	42.5	42.4	54.0	11.5	11.6
24	19528.00	PEK	36.9	35.2	11.3	48.2	46.5	74.0	25.8	27.5
25	19528.00	AVG	26.5	25.9	11.3	37.8	37.2	54.0	16.2	16.8

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

Operating mode	3-DH5, 2480 MHz				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.7	-6.7	-	21.0	40.0	-	19.0
2	132.48	QP	30.6	32.0	-7.2	23.4	24.8	43.5	20.1	18.7
3	186.24	QP	29.9	29.8	-7.5	22.4	22.3	43.5	21.1	21.2
4	205.44	QP	32.0	28.5	-8.3	23.7	20.2	43.5	19.8	23.3
5	224.64	QP	35.4	30.4	-7.5	27.9	22.9	46.0	18.1	23.1
6	288.00	QP	40.9	35.4	-5.0	35.9	30.4	46.0	10.1	15.6
7	326.40	QP	31.7	23.8	-3.7	28.0	20.1	46.0	18.0	25.9
8	633.60	QP	22.6	22.6	4.7	27.3	27.3	46.0	18.7	18.7
9	902.40	QP	21.7	20.5	8.9	30.6	29.4	46.0	15.4	16.6
10	1171.20	PEK	38.3	38.6	-3.6	34.7	35.0	74.0	39.3	39.0
11	1171.20	AVG	27.7	27.5	-3.6	24.1	23.9	54.0	29.9	30.1
12	2340.85	PEK	55.3	57.1	3.8	59.1	60.9	74.0	14.9	13.1
13	2340.85	AVG	28.7	28.9	3.8	32.5	32.7	54.0	21.5	21.3
14*	2387.93	PEK	57.7	59.3	3.8	61.5	63.1	74.0	12.5	10.9
15*	2387.93	AVG	28.8	28.9	3.8	32.6	32.7	54.0	21.4	21.3
16*	2483.50	PEK	48.8	49.7	3.9	52.7	53.6	74.0	21.3	20.4
17*	2483.50	AVG	30.3	30.8	3.9	34.2	34.7	54.0	19.8	19.3
18	2500.00	PEK	49.7	49.7	4.0	53.7	53.7	74.0	20.3	20.3
19	2500.00	AVG	29.4	29.7	4.0	33.4	33.7	54.0	20.6	20.3
20	4960.00	PEK	37.9	37.1	7.9	45.8	45.0	74.0	28.2	29.0
21	4960.00	AVG	27.0	27.3	7.9	34.9	35.2	54.0	19.1	18.8
22	6400.00	PEK	38.4	39.1	9.8	48.2	48.9	74.0	25.8	25.1
23	6400.00	AVG	27.9	29.3	9.8	37.7	39.1	54.0	16.3	14.9
24	7440.00	PEK	35.3	34.9	13.6	48.9	48.5	74.0	25.1	25.5
25	7440.00	AVG	24.6	24.6	13.6	38.2	38.2	54.0	15.8	15.8
26	9920.00	PEK	34.4	34.7	17.6	52.0	52.3	74.0	22.0	21.7
27	9920.00	AVG	24.3	24.3	17.6	41.9	41.9	54.0	12.1	12.1
28	19840.00	PEK	36.1	35.4	11.6	47.7	47.0	74.0	26.3	27.0
29	19840.00	AVG	26.0	25.8	11.6	37.6	37.4	54.0	16.4	16.6

Note.
* : Band Edge of Restrict Band
- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

9.7 Band Edge of Authorized Frequency Band

Regulations	FCC Part15C §15.247 (d) RSS-210 A8.5
Test Method/Guide	FCC Public Notice DA 00-705

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.1.
2. Adjust the measurement instrument for the following setting:

RBW	:	100 kHz
VBW	:	300 kHz
Span	:	20 MHz
Detector	:	Peak
Sweep Time	:	Auto
Correction Factor	:	Input Cable loss and Attenuator
Trace mode	:	Max Hold

3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within in-band emission.
5. Use the marker function to ensure that the band edge level of the authorized frequency band was attenuated by at least the minimum requirements specified.
6. Band Edge Measurement data correction;

   Limit [dBm] = Peak level within in-band emission [dBm] - 20 [dB]

   Margin [dB] = Limit [dBm] – Band edge Level [dBm]

Test Result

Location	Matsuda No.4 Test Site
Test date	Oct. 10, 2014
Temperature	24.0 [degree C]
Humidity variation	57.0 [%]
Test Engineer	Shiro Kobayashi

Operating mode	**DH5, Hopping OFF**			
Freq. [MHz]	**Peak level within in-band emission [dBm]**	**Limit [dBm]**	**Band edge level [dBm]**	**Margin [dB]**
2400	-0.172	-20.172	-52.397	32.225
2483.5	-0.467	-20.467	-51.866	31.399

Operating mode	**DH5, Hopping ON**			
Freq. [MHz]	**Peak level within in-band emission [dBm]**	**Limit [dBm]**	**Band edge level [dBm]**	**Margin [dB]**
2400	-0.303	-20.303	-52.363	32.060
2483.5	-0.766	-20.766	-52.304	31.538

Operating mode	**2-DH5, Hopping OFF**			
Freq. [MHz]	**Peak level within in-band emission [dBm]**	**Limit [dBm]**	**Band edge level [dBm]**	**Margin [dB]**
2400	-1.816	-21.816	-43.680	21.864
2483.5	-2.007	-22.007	-50.539	28.532

Operating mode	**2-DH5, Hopping ON**			
Freq. [MHz]	**Peak level within in-band emission [dBm]**	**Limit [dBm]**	**Band edge level [dBm]**	**Margin [dB]**
2400	-1.822	-21.822	-50.856	29.034
2483.5	-2.810	-22.810	-51.054	28.244

Operating mode	3-DH5, Hopping OFF			
Freq. [MHz]	**Peak level within in-band emission [dBm]**	**Limit [dBm]**	**Band edge level [dBm]**	**Margin [dB]**
2400	-1.764	-21.764	-46.382	24.618
2483.5	-1.993	-21.993	-50.982	28.989

Operating mode	3-DH5, Hopping ON			
Freq. [MHz]	**Peak level within in-band emission [dBm]**	**Limit [dBm]**	**Band edge level [dBm]**	**Margin [dB]**
2400	-2.048	-22.048	-53.108	31.060
2483.5	-2.350	-22.350	-51.834	29.484

Spectrum Plots

See ANNEX A.6

9.8 Spurious RF Conducted Emissions

Regulations	FCC Part15C §15.247 (d) RSS-210 A8.5
Test Method/Guide	FCC Public Notice DA 00-705

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.1.
2. Adjust the measurement instrument for the following setting:

RBW	:	100 kHz
VBW	:	300 kHz
Span	:	Set span to encompass the spectrum to be examined
Detector	:	Peak
Sweep Time	:	Auto
Correction Factor	:	Input Cable loss and Attenuator
Trace mode	:	Max Hold, Allow trace to fully stabilize.

3. Use the marker function to ensure that the amplitude of all unwanted emissions outside of the authorized frequency band is attenuated by at least the minimum requirements specified.

Spectrum Plots

See ANNEX A.7

9.9 AC Conducted Emissions

Regulations	FCC Part15C §15.207 RSS-Gen 7.2.2
Test Method/Guide	ANSI C63.4-2003

Test Procedure

1. The EUT and test instrument were set up as shown on section 10.3.
2. The spectrum analyzer is controlled by the computer program to sweep the frequency range to be measured, then spectrum chart is plotted out to find the worst emission.
   At least six highest spectrum are measured in quasi-peak and average (if necessary) using the CISPR Receiver.
3. Adjust the test instrument for the following setting:

Frequency	Instruments	Detector	RBW	VBW
0.15 – 30 MHz	CISPR Receiver	QP	9 kHz	N/A
		AVG		

6. Measurement data correction;
   Emission Level [dBuV] = Reading [dBuV] + Factor [dB]
   Margin [dB] = Limit [dBuV] – Emission Level [dBuV]
   * Factor = LISN Factor + Cable loss + Attenuator

Test Result

Test date	Oct. 7, 2014
Location	Matsuda No.4 Test Site
Temperature	23.0 [degree C]
Humidity variation	59.0 [%] Turntable
Test Engineer	Shiro Kobayashi

Operating mode			**DH5, Hopping ON**								
No.	**Freq [MHz]**	**Detector**	**Reading [dBuV]**		**Factor [dB]**		**Emission Level [dBuV]**		**Limit [dBuV]**	**Margin [dB]**	
			L1	**L2**	**L1**	**L2**	**L1**	**L2**		**L1**	**L2**
1	0.150	QP	33.5	33.1	10.0	10.0	43.5	43.1	66.0	22.5	22.9
2	0.200	QP	29.8	29.6	10.1	10.1	39.9	39.7	63.6	23.7	23.9
3	0.300	QP	20.0	20.9	10.1	10.1	30.1	31.0	60.2	30.1	29.2
4	0.500	QP	13.8	13.8	10.1	10.1	23.9	23.9	56.0	32.1	32.1
5	1.500	QP	-8.5	-8.5	10.3	10.3	1.8	1.8	56.0	54.2	54.2
6	3.000	QP	-8.7	-8.5	10.4	10.4	1.7	1.9	56.0	54.3	54.1
7	5.000	QP	-8.8	-8.9	10.6	10.5	1.8	1.6	56.0	54.2	54.4

Operating mode			2-DH5, Hopping ON								
No.	Freq [MHz]	Detector	Reading [dBuV]		Factor [dB]		Emission Level [dBuV]		Limit [dBuV]	Margin [dB]	
			L1	L2	L1	L2	L1	L2		L1	L2
1	0.150	QP	34.1	34.3	10.0	10.0	44.1	44.3	66.0	21.9	21.7
2	0.200	QP	31.6	32.0	10.1	10.1	41.7	42.1	63.6	21.9	21.5
3	0.300	QP	25.2	26.4	10.1	10.1	35.3	36.5	60.2	24.9	23.7
4	0.500	QP	13.3	12.1	10.1	10.1	23.4	22.2	56.0	32.6	33.8
5	1.500	QP	-8.6	-8.6	10.3	10.3	1.7	1.7	56.0	54.3	54.3
6	3.000	QP	-8.6	-8.5	10.4	10.4	1.8	1.9	56.0	54.2	54.1
7	5.000	QP	-8.5	-8.5	10.6	10.5	2.1	2.0	56.0	53.9	54.0

Operating mode			3-DH5, Hopping ON								
No.	Freq [MHz]	Detector	Reading [dBuV]		Factor [dB]		Emission Level [dBuV]		Limit [dBuV]	Margin [dB]	
			L1	L2	L1	L2	L1	L2		L1	L2
1	0.150	QP	34.3	34.2	10.0	10.0	44.3	44.2	66.0	21.7	21.8
2	0.200	QP	31.7	31.8	10.1	10.1	41.8	41.9	63.6	21.8	21.7
3	0.300	QP	25.8	26.1	10.1	10.1	35.9	36.2	60.2	24.3	24.0
4	0.500	QP	15.2	15.7	10.1	10.1	25.3	25.8	56.0	30.7	30.2
5	1.500	QP	-8.6	-8.7	10.3	10.3	1.7	1.6	56.0	54.3	54.4
6	3.000	QP	-8.5	-8.7	10.4	10.4	1.9	1.7	56.0	54.1	54.3
7	5.000	QP	-8.8	-8.7	10.6	10.5	1.8	1.8	56.0	54.2	54.2

9.10 Receiver Spurious Emissions

Regulations	RSS-Gen 6.1
Test Method/Guide	ANSI C63.4-2003

Test Procedure

See section 9.6

Test Result

Operating mode	Receive mode				
Location	Matsuda No.4 Test Site				
Test date	30 – 1000 MHz,	2 – 3 GHz,	1-2, 3-18 GHz,	18 – 25 GHz	
	Oct. 20, 2014,	Oct. 21, 2014,	Oct. 24, 2014,	Nov. 6, 2014	
Temperature	22.0,	21.0,	22.0,	23.0	[degree C]
Humidity variation	66.0,	65.0,	58.0,	59.0	[%]
Test Engineer	Shiro Kobayashi				

No.	Freq. [MHz]	Detector	Reading [dBuV]		Factor [dB/m]	Emission Level [dBuV/m]		Limit [dBuV/m]	Margin [dB]	
			Hori	Vert		Hori	Vert		Hori	Vert
1	44.16	QP	-	27.6	-6.7	-	20.9	40.0	-	19.1
2	132.48	QP	30.8	31.9	-7.2	23.6	24.7	43.5	19.9	18.8
3	186.24	QP	29.9	28.9	-7.5	22.4	21.4	43.5	21.1	22.1
4	205.44	QP	31.9	28.7	-8.3	23.6	20.4	43.5	19.9	23.1
5	224.64	QP	35.7	30.9	-7.5	28.2	23.4	46.0	17.8	22.6
6	288.00	QP	41.1	35.6	-5.0	36.1	30.6	46.0	9.9	15.4
7	326.40	QP	32.3	24.2	-3.7	28.6	20.5	46.0	17.4	25.5
8	633.60	QP	22.8	22.7	4.7	27.5	27.4	46.0	18.5	18.6
9	902.40	QP	22.0	20.9	8.9	30.9	29.8	46.0	15.1	16.2
10	1171.20	PEK	38.5	38.3	-3.6	34.9	34.7	74.0	39.1	39.3
11	1171.20	AVG	27.7	27.4	-3.6	24.1	23.8	54.0	29.9	30.2
12	6400.00	PEK	38.9	39.8	9.8	48.7	49.6	74.0	25.3	24.4
13	6400.00	AVG	27.8	29.6	9.8	37.6	39.4	54.0	16.4	14.6

Note.

* : Band Edge of Restrict Band

\- : Measurement limit

Any Spurious emissions higher than the frequency reported in the table above were not detected during the measurement.

SECTION 10. LIST AND DIAGRUM OF MEASURING INSTRUMENTS

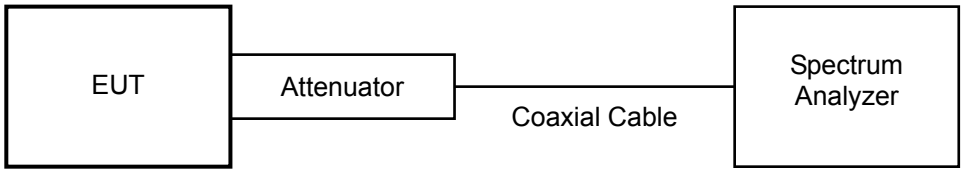
Test instruments are calibrated according to Quality Manual and Calibration Rules of Intertek Japan K.K.

10.1 RF Conducted

Measurement Instruments

Instrument	Model No.	Serial No.	Manufacturer	Cal. Interval	Effective period
Spectrum Analyzer	N9030A	MY52350520	Agilent	1 Y	Mar.31, 2015
20 dB Attenuator	8493C	78585	Agilent	1 Y	Dec.31, 2014
Coaxial Cable	SUCOFLEX 104PE	94703/4PE	SUHNER	1 Y	Dec.31, 2014

Measurement Equipment Configuration



10.2 Radiated Emission

Measurement Instruments

Instrument	Model No.	Serial No.	Manufacturer	Cal. Interval	Effective period
30 – 1000 MHz					
Broad Band Antenna	VULB9168	126	Schwarzbeck	1 Y	Nov.30, 2014
Amplifier	8447D	1937A02669	Hewlett Packard	1 Y	Aug.31, 2015
6dB Attenuator	6806.17.AC	E04AT3RB	HUBER+SUHNER	1 Y	Aug.31, 2015
Step Attenuator	8494A	1510A08521	Hewlett Packard	1 Y	Aug.31, 2015
Coaxial Cable (R1)	RG214HF(9.0m)	MTS04R3-1	SUHNER	1 Y	Aug.31, 2015
Coaxial Cable (R2)	8D-2W(15.0m)	MTS04R3-2	Intertek	1 Y	Aug.31, 2015
Coaxial Cable (R3)	RG214HF(2.0m)	MTS04R3-3	SUHNER	1 Y	Aug.31, 2015
Coaxial Cable (R4)	RG214HF(0.4m)	MTS04R3-4	SUHNER	1 Y	Aug.31, 2015
Coaxial Cable (R5)	RG214HF(0.4m)	MTS04R3-5	SUHNER	1 Y	Aug.31, 2015
Coaxial Cable (R6)	RG214HF(1.5m)	MTS04R3-6	SUHNER	1 Y	Aug.31, 2015
Coaxial Cable (R7)	RG214HF(1.5m)	MTS04R3-7	SUHNER	1 Y	Aug.31, 2015
Coaxial Cable (R8)	RG214HF(1.5m)	MTS04R3-8	SUHNER	1 Y	Aug.31, 2015
Coaxial Cable (R9)	RG214HF(6.0m)	MTS04R3-9	SUHNER	1 Y	Aug.31, 2015
Test Receiver	ESS (Firmware Version 1.21)	842123/007	Rohde & Schwarz	1 Y	Mar.31, 2015
RF Switch(1)	MP59B	M21448	ANRITSU	1 Y	Aug.31, 2015
RF Switch(2)	ACX-150-1	E04301501	Intertek	1 Y	Aug.31, 2015
Site Attenuation	-	-	-	1 Y	May.31, 2015
Above 1000 MHz					
Double Ridged Antenna	3115	2568	EMCO	1 Y	Oct.31, 2014
Notch Filter	BRM50702	111	Micro-Tronics	1 Y	Dec.31, 2014
3dB Attenuator	6803.17.B	E00AT3GA	SUNNER	1 Y	Apr.30, 2015
6dB Attenuator	6806.17.B	E00AT6GA	SUNNER	1 Y	Apr.30, 2015
Amplifier	TPA0118-30	950186	TOYO Corporation	1 Y	Apr.30, 2015
Coaxial Cable (R11)	SUCOFLEX 104(6.0m)	64611/4PE	SUNNER	1 Y	Apr.30, 2015
Coaxial Cable (R12)	SUCOFLEX 104(1.0m)	94703/4PE	SUNNER	1 Y	Dec.31, 2014
Coaxial Cable (R13)	SUCOFLEX 104(1.0m)	64587/4PE	SUNNER	1 Y	Apr.30, 2015
Coaxial Cable (R14)	5B-048-98-98-6000	120315	Candox	1 Y	Sep.30, 2015
Horn Antenna with Preamplifier	MLA-18265-B03-30	1694440	TSJ	1 Y	Sep.30, 2015
Spectrum Analyzer	N9030A	MY52350520	Agilent	1 Y	Mar.31, 2015
Common					
Testing Software	emiT (Version 3,0,0,0)	-	-	--	-

Measurement Instruments Configurations

Diagram of the measurement instruments (30-1000 MHz)

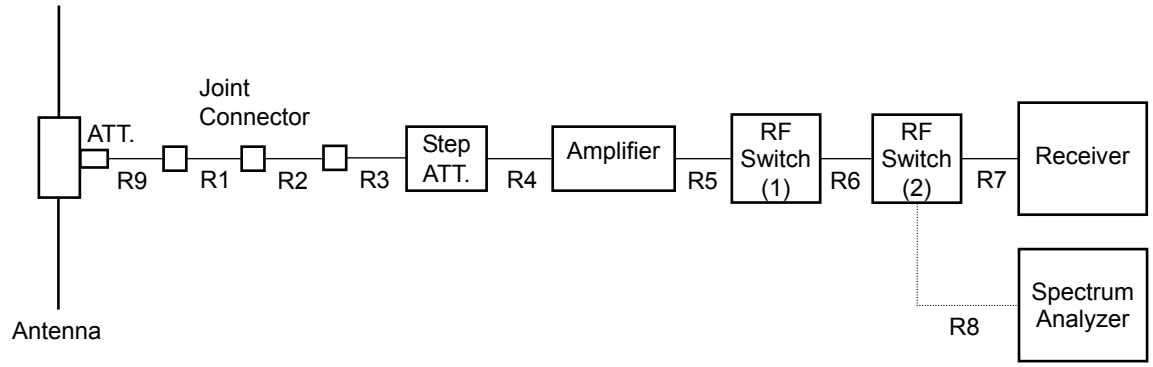


Diagram of the measurement instruments (2000 - 3000 MHz)

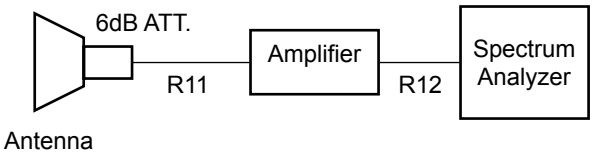


Diagram of the measurement instruments (1000- 2000 and 3000 – 18000 MHz)

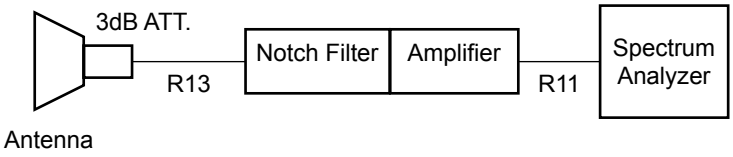
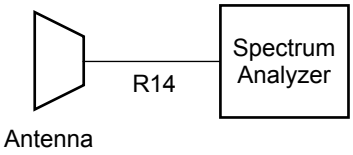
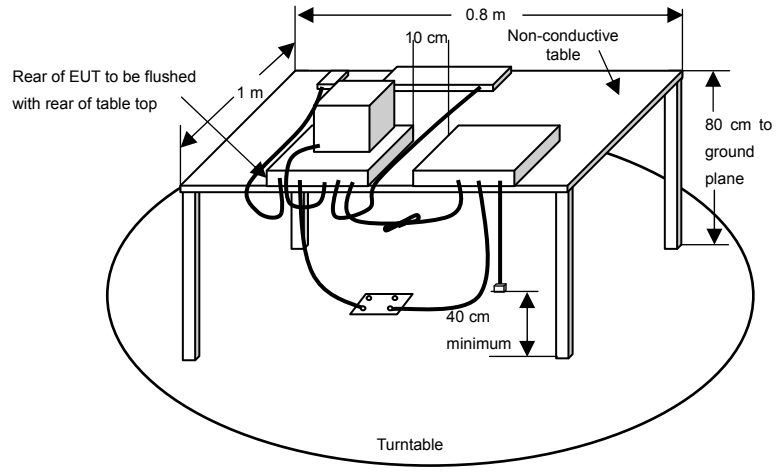


Diagram of the measurement instruments (18000 - 25000 MHz)



EUT set-up as per standard

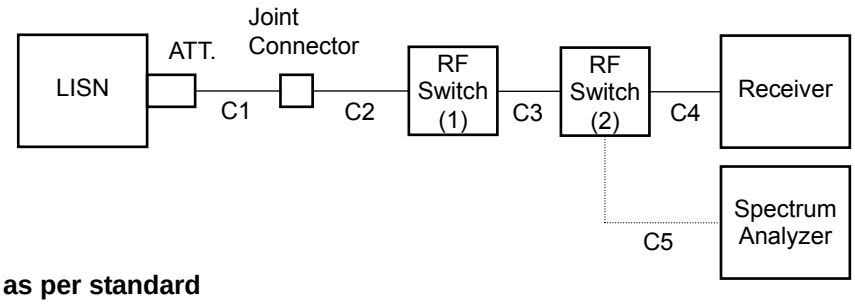


10.3 AC Line Conducted Emission

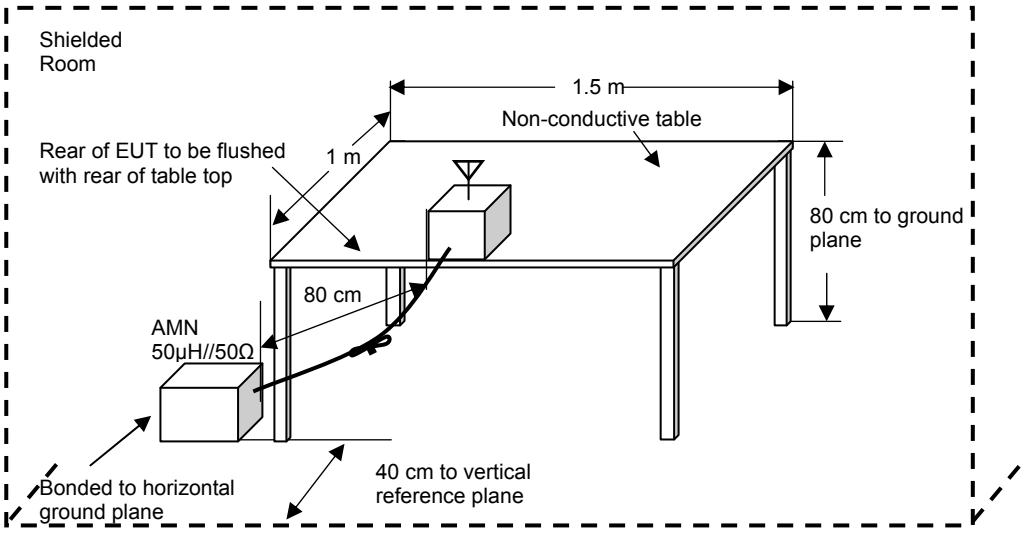
Measurement Instrument

Instrument	Model No.	Serial No.	Manufacturer	Cal. Interval	Effective period
LISN(EUT)	ESH2-Z5	882395/019	Rohde & Schwarz	1 Y	Jun. 30, 2015
10dB LISN Pad	CFA-01	E04AT10B	TAMAGAWA	1 Y	Jun. 30, 2015
50Ω Termination	65BNC-50-0-2/133NE	E03TRM50C	SUHNER	1 Y	Aug. 31, 2015
Coaxial Cable (C1)	3D-2W(5.0m)	MTS04CSR-1	Intertek	1 Y	Aug. 31, 2015
Coaxial Cable (C2)	RG-5A/U(4.0m)	MTS04CSR-2	Intertek	1 Y	Aug. 31, 2015
Coaxial Cable (C3)	RG214HF(1.5m)	MTS04CSR-3	SUHNER	1 Y	Aug. 31, 2015
Coaxial Cable (C4)	RG214HF(1.5m)	MTS04CSR-4	SUHNER	1 Y	Aug. 31, 2015
Coaxial Cable (C5)	RG214HF(1.5m)	MTS04CSR-5	SUHNER	1 Y	Aug. 31, 2015
Test Receiver	ESS (Firmware Version 1.21)	842123/007	Rohde & Schwarz	1 Y	Mar. 30, 2015
RF Switch(1)	MP59B	M21448	ANRITSU	1 Y	Aug. 31, 2015
RF Switch(2)	ACX-150-1	E04301501	Intertek	1 Y	Aug. 31, 2015
Testing Software	emiT (Version 3,0,0,0)	-	-	-	-

Measurement Instruments Configurations



Test setup as per standard



* Reference Ground plane : greater than 2 x 2m

ANNEX

A. HARD COPY OF SPECTRUM PLOTS

A.1 20 dB Bandwidth and 99 % Occupied Bandwidth

DH5	2-DH5
2402 MHz	**2402 MHz**
	
2441 MHz	**2441 MHz**
	
2480 MHz	**2480 MHz**
	

3-DH5
2402 MHz

2441 MHz

2480 MHz


A.2 Maximum Peak Output Power

DH5	2-DH5
2402 MHz	**2402 MHz**
	
2441 MHz	**2441 MHz**
	
2480 MHz	**2480 MHz**
	

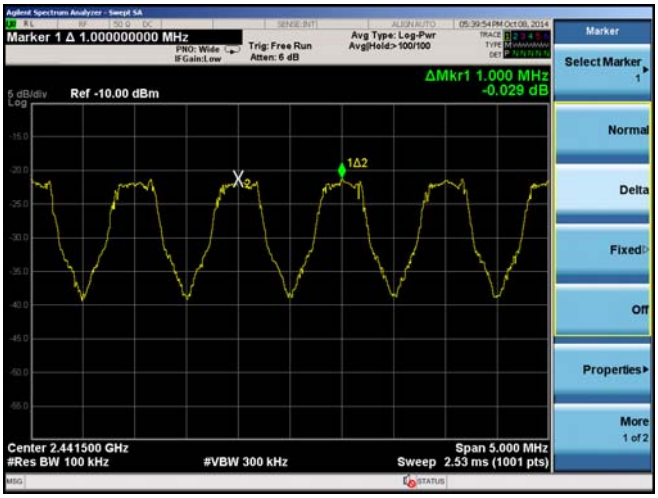
3-DH5

2402 MHz

2441 MHz

2480 MHz

A.3 Carrier Frequency Separation

DH5	2-DH5
2402 MHz	**2402 MHz**
	
2441 MHz	**2441 MHz**
	
2480 MHz	**2480 MHz**
	

3-DH5

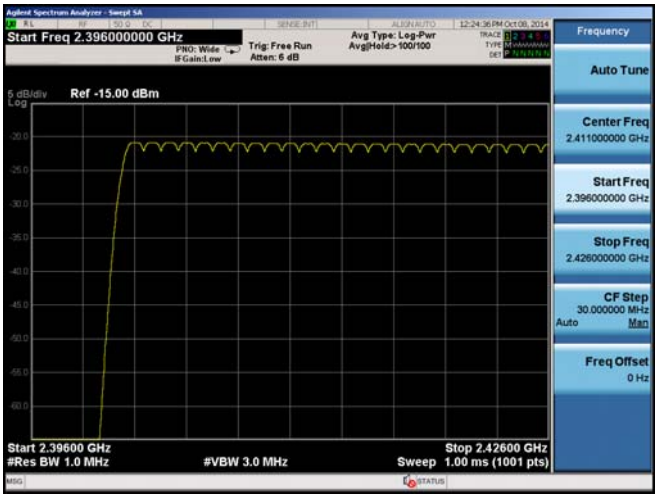
2402 MHz

2441 MHz

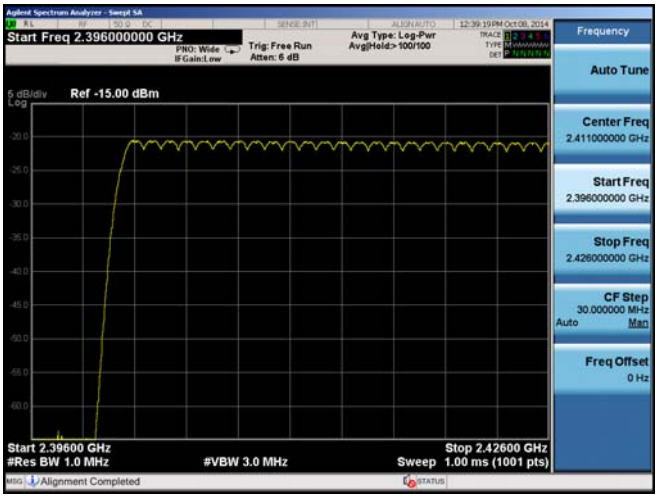
2480 MHz

A.4 Number of Hopping Frequency

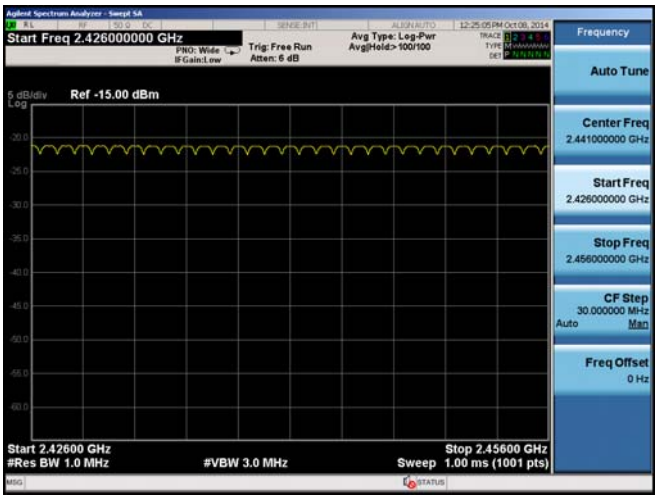
DH5_1



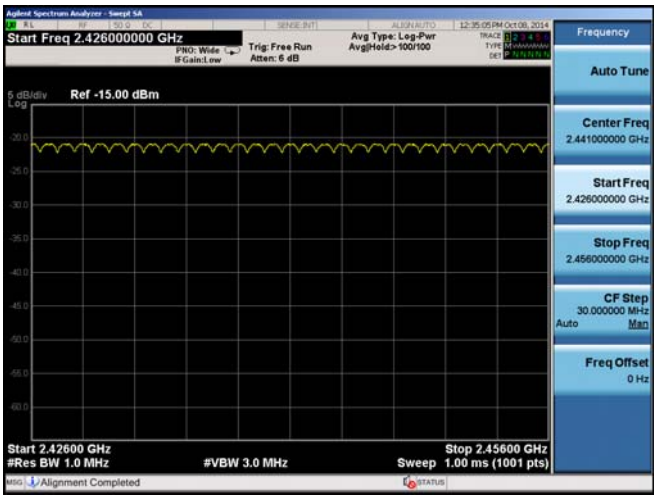
2-DH5_1



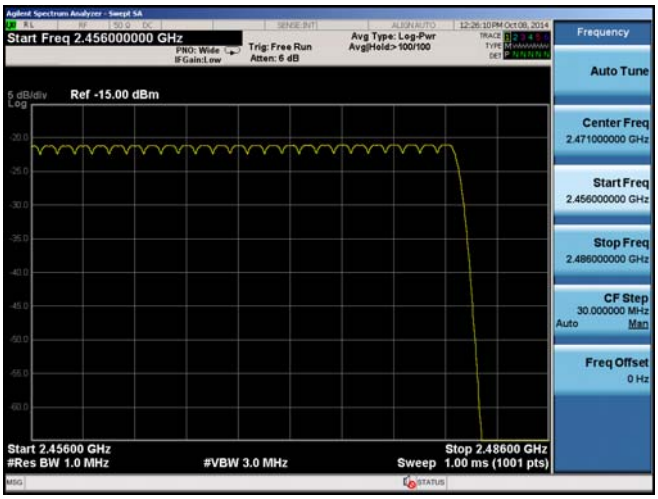
DH5_2



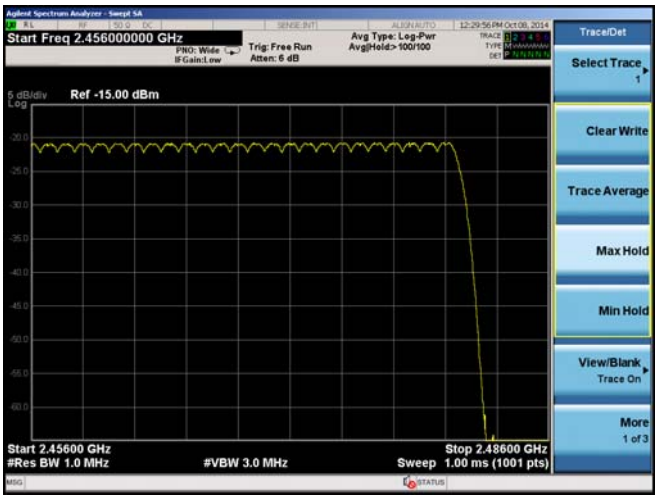
2-DH5_2



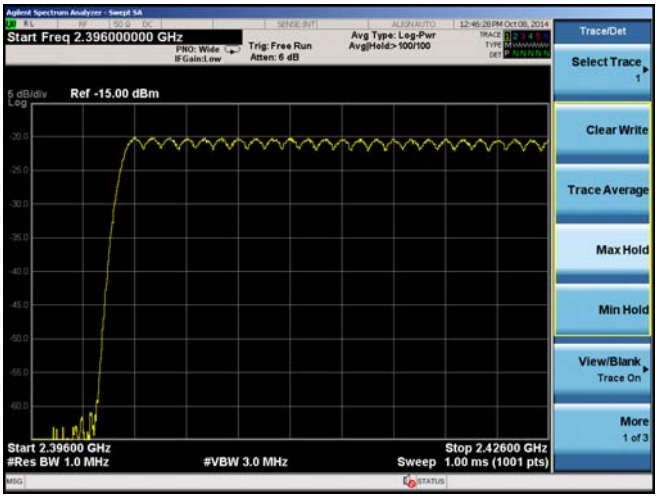
DH5_3



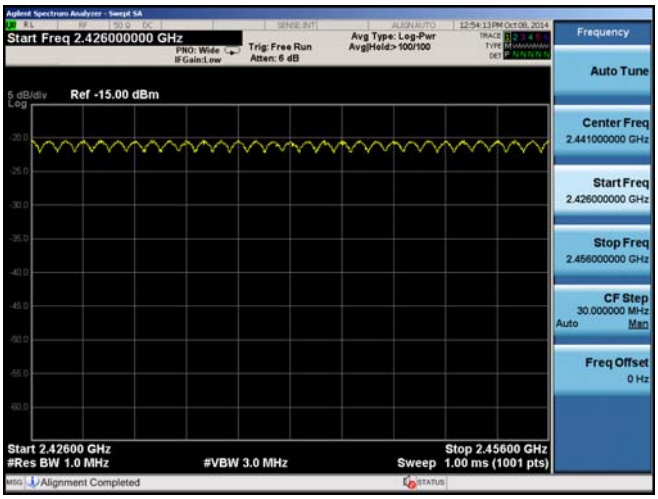
2-DH5_3



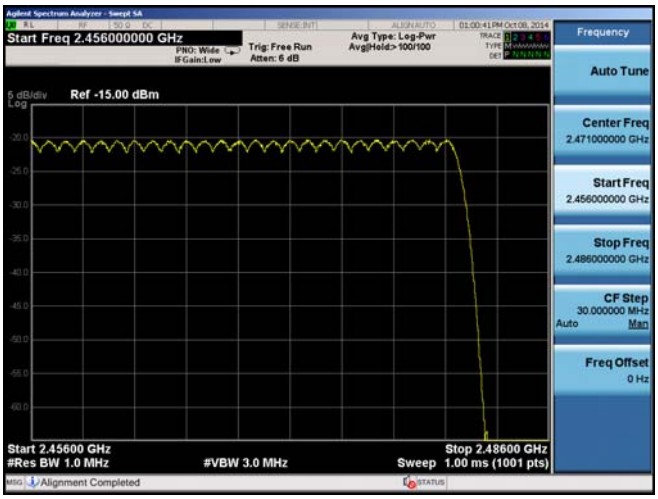
3-DH5_1



3-DH5_2

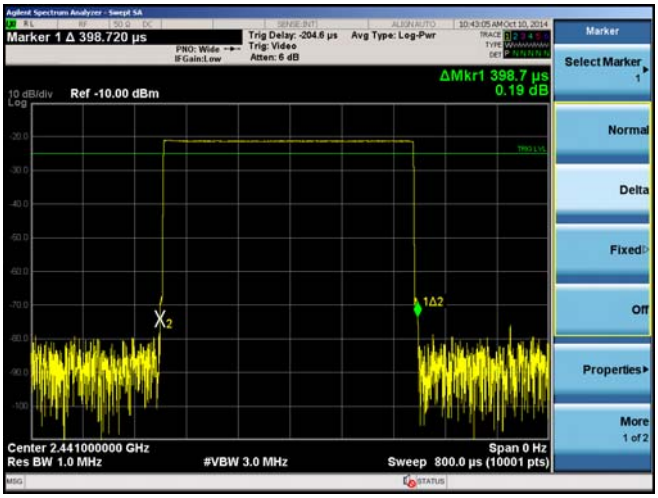


3-DH5_3

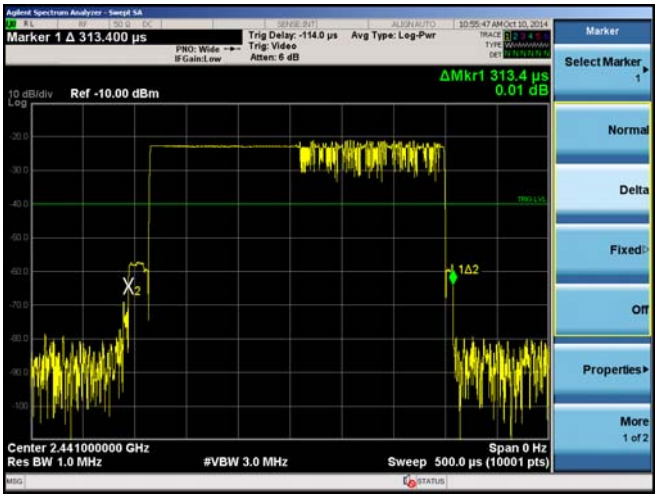


A.5 Time of Occupancy

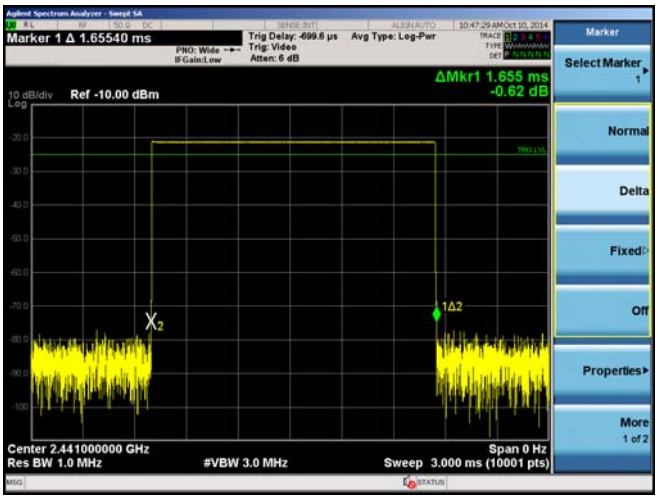
DH1



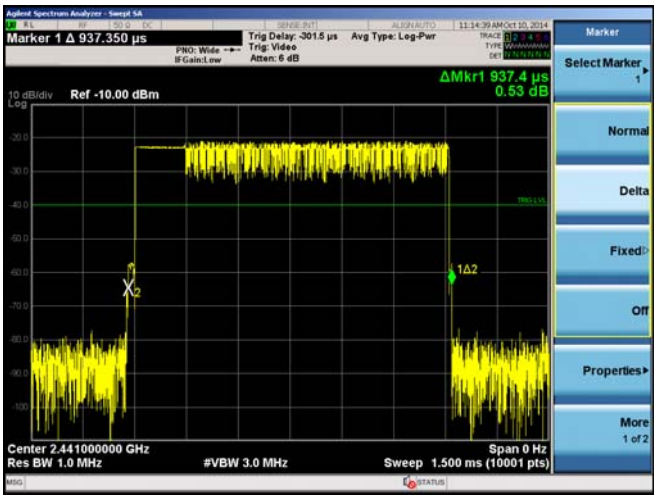
2-DH1



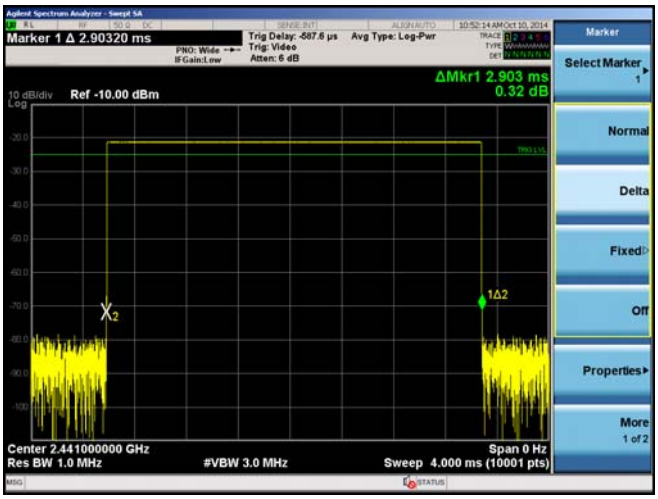
DH3



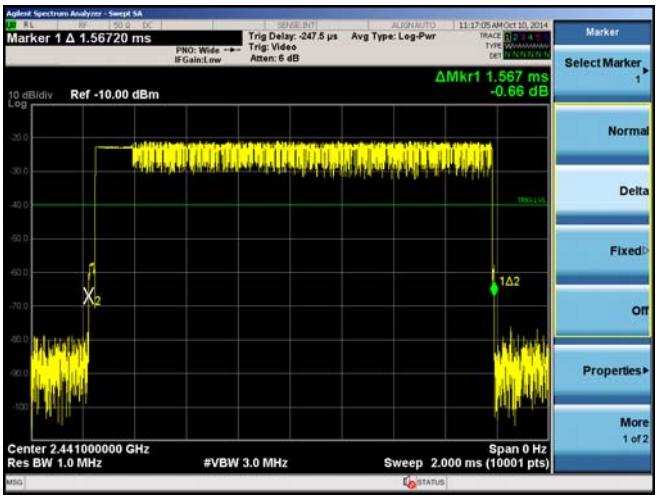
2-DH3



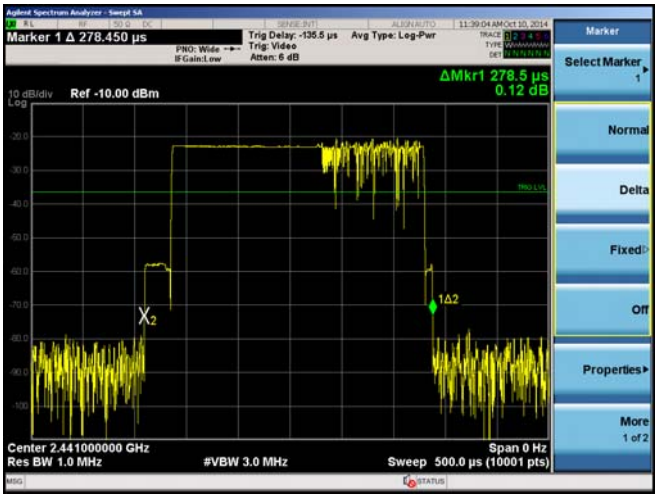
DH5



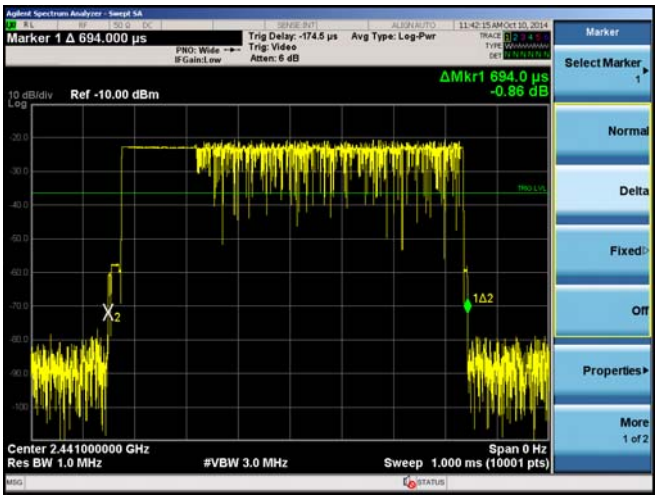
2-DH5



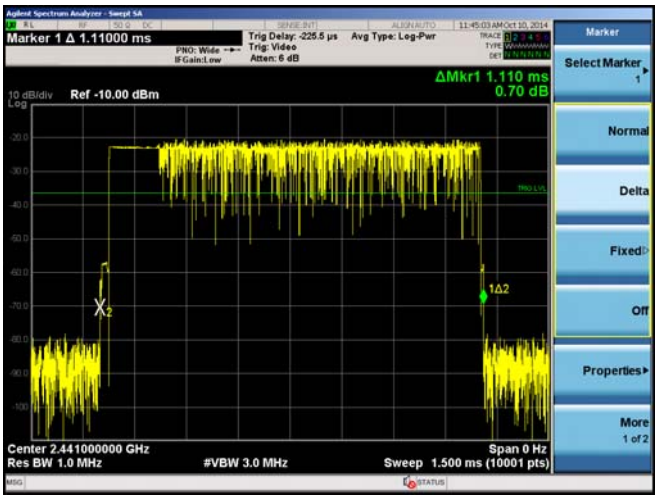
3-DH1



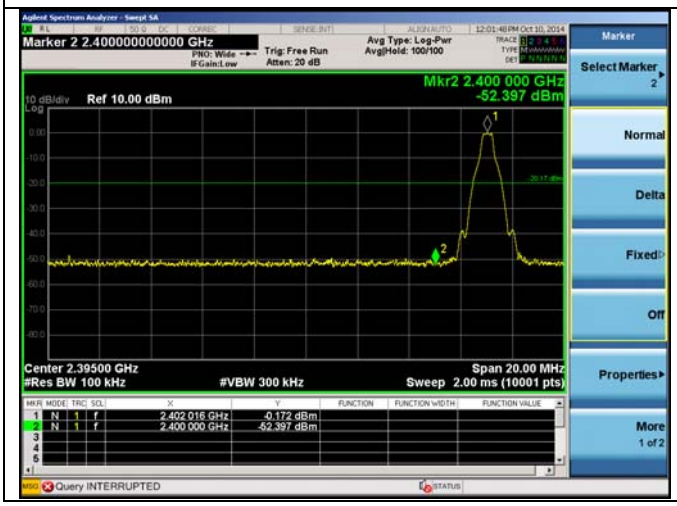
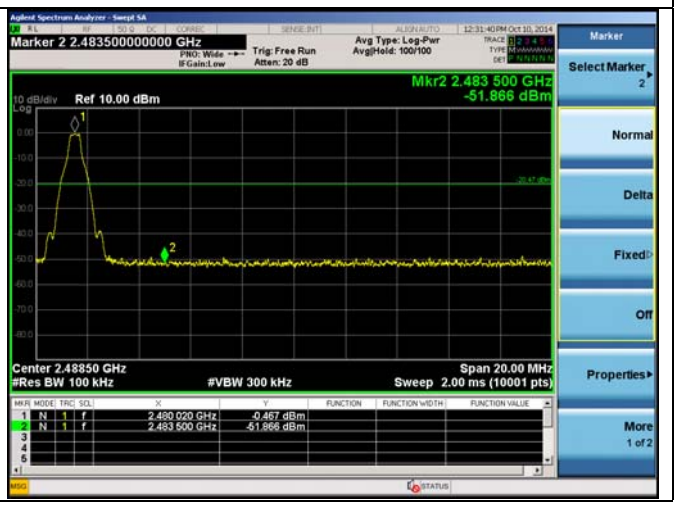
3-DH3

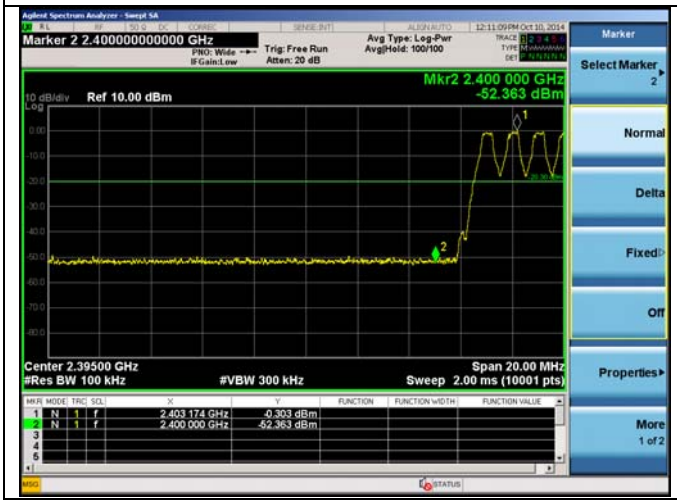
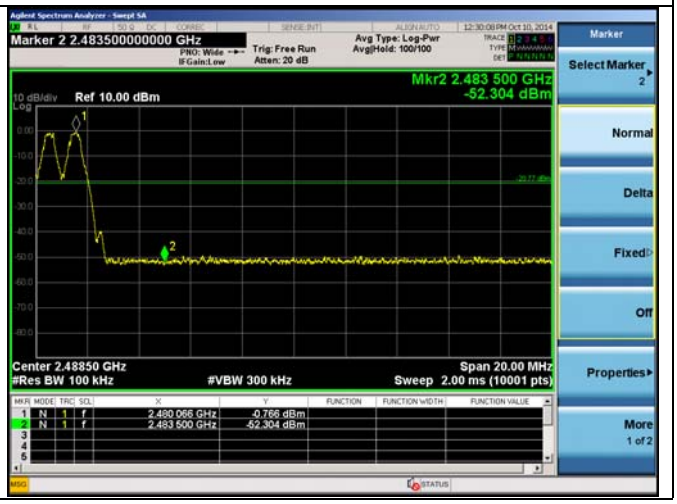


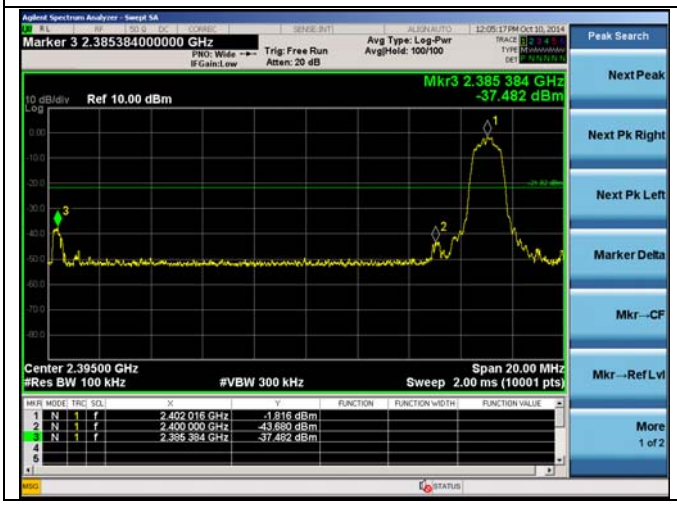
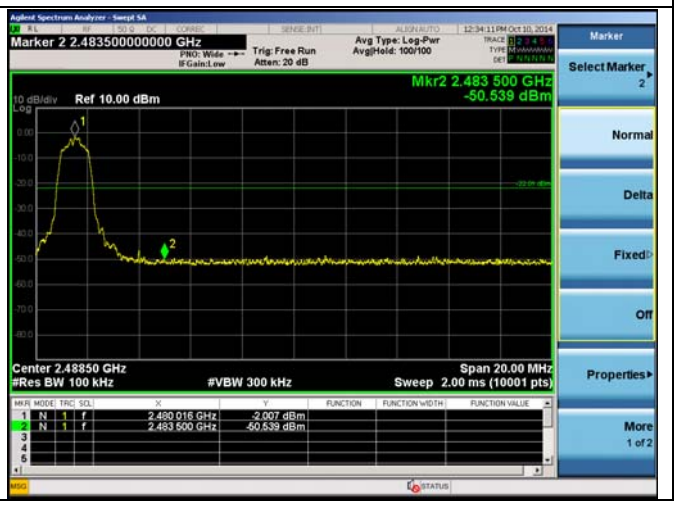
3-DH5

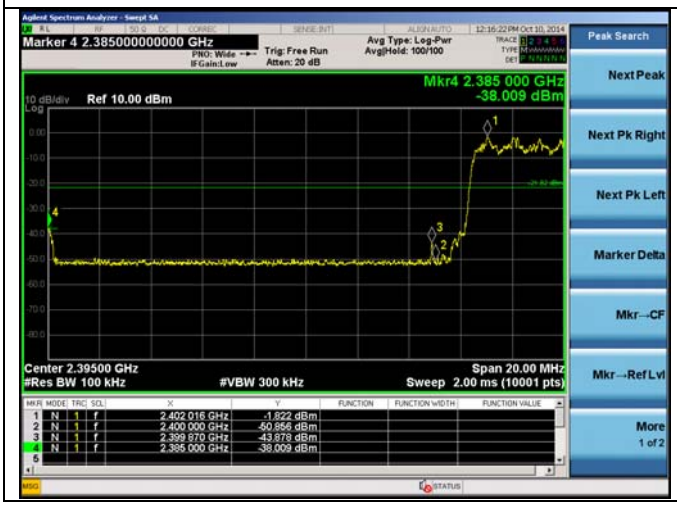
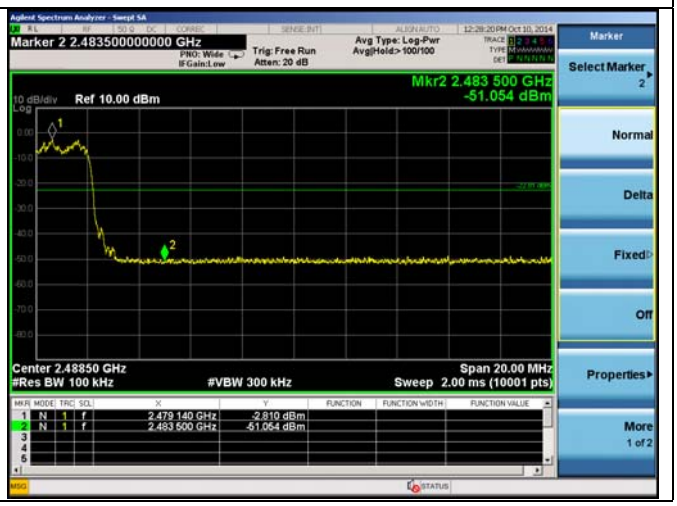


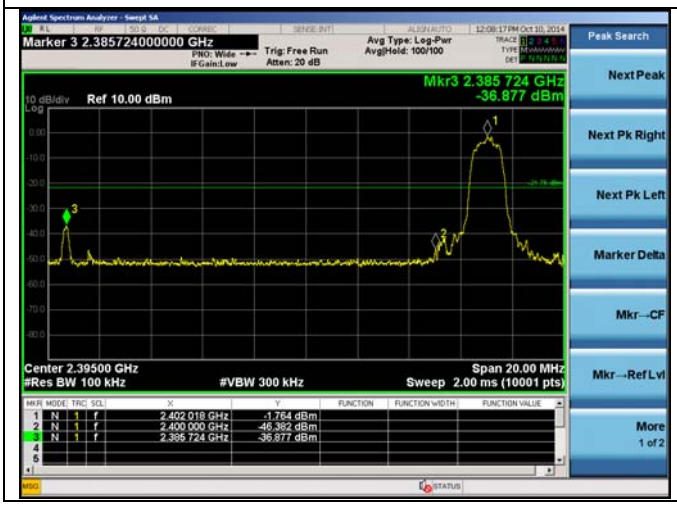
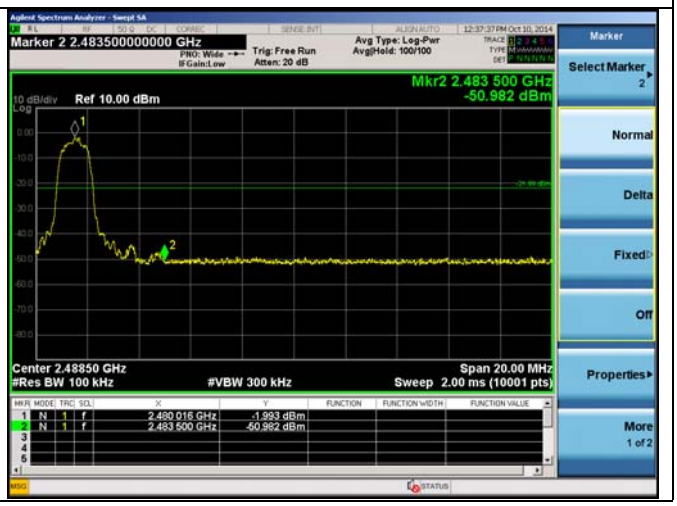
A.6 Band Edge of Authorized Frequency Band

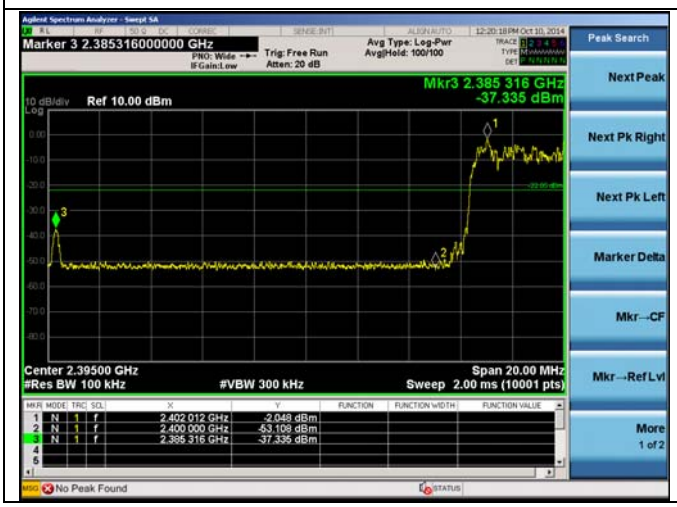
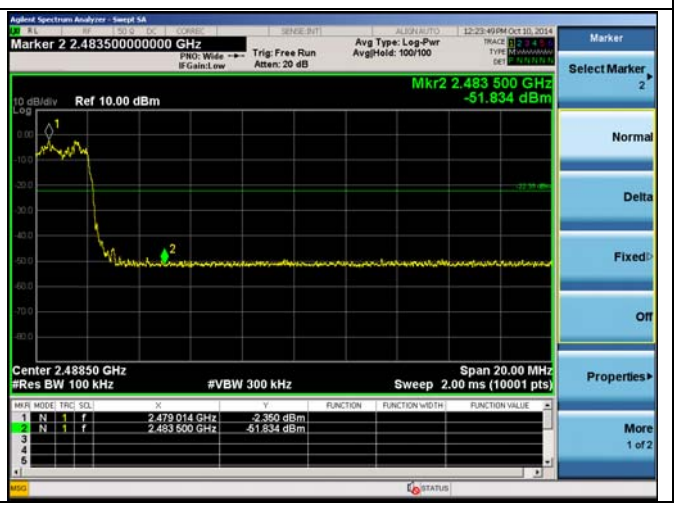
DH5, Hopping OFF	
2400 MHz	**2483.5 MHz**
	

DH5, Hopping ON	
2400 MHz	**2483.5 MHz**
	

2-DH5, Hopping OFF	
2400 MHz	**2483.5 MHz**
	

2-DH5, Hopping ON	
2400 MHz	**2483.5 MHz**
	

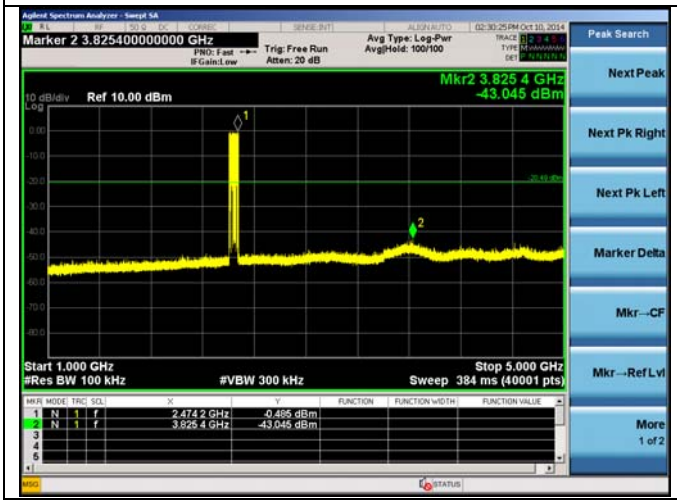
3-DH5, Hopping OFF	
2400 MHz	**2483.5 MHz**
	

3-DH5, Hopping ON	
2400 MHz	**2483.5 MHz**
	

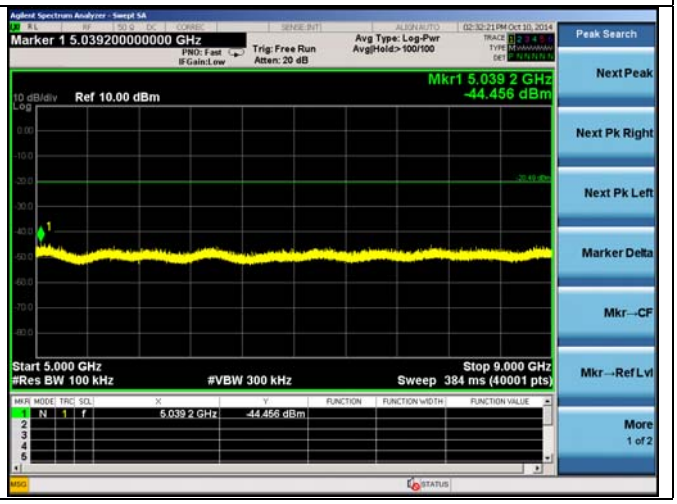
A.7 Spurious RF Conducted Emissions

DH5, Hopping ON

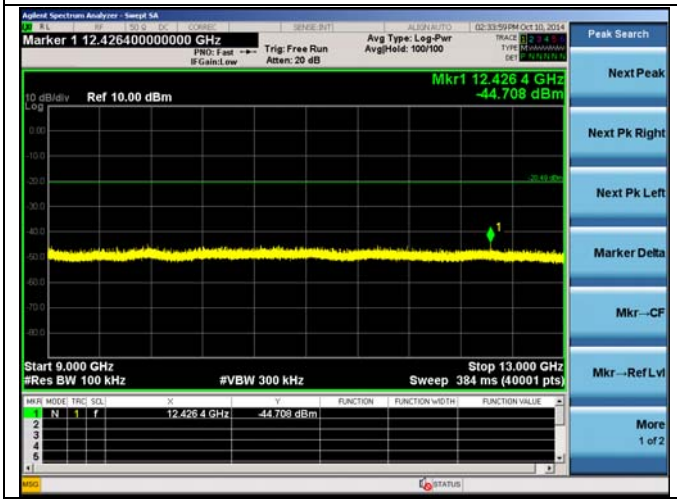
1 – 5 GHz



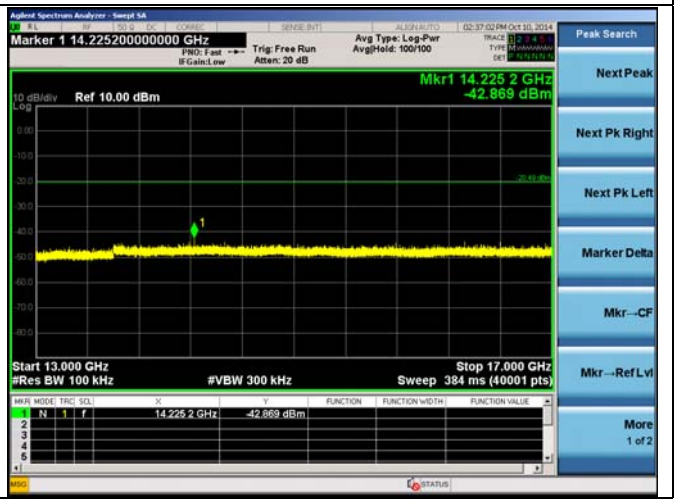
5 – 9 GHz



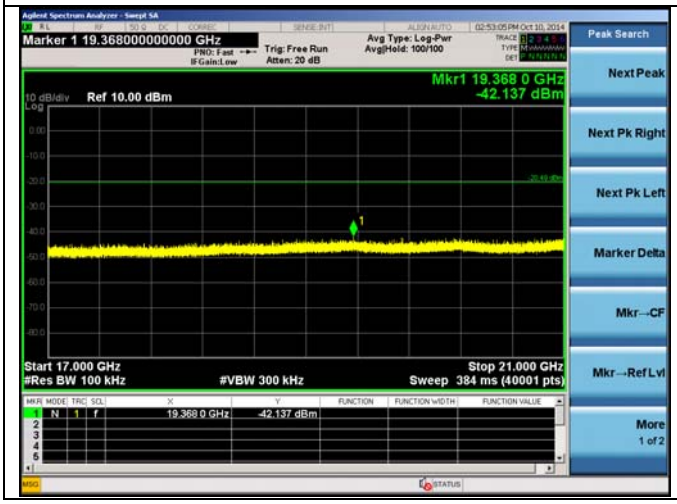
9 – 13 GHz



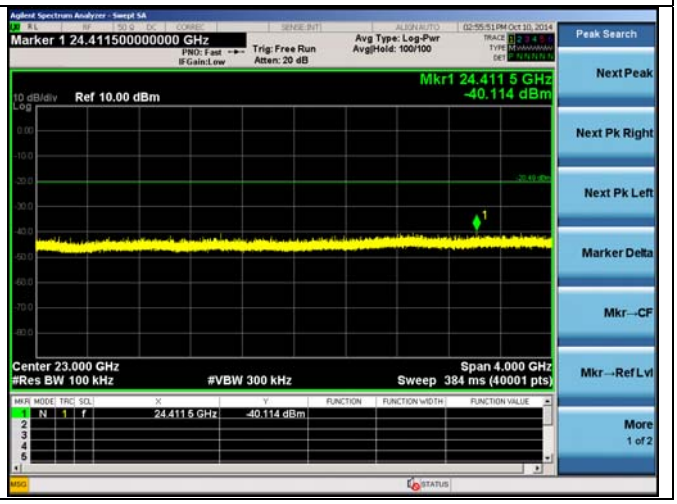
13 – 17 GHz

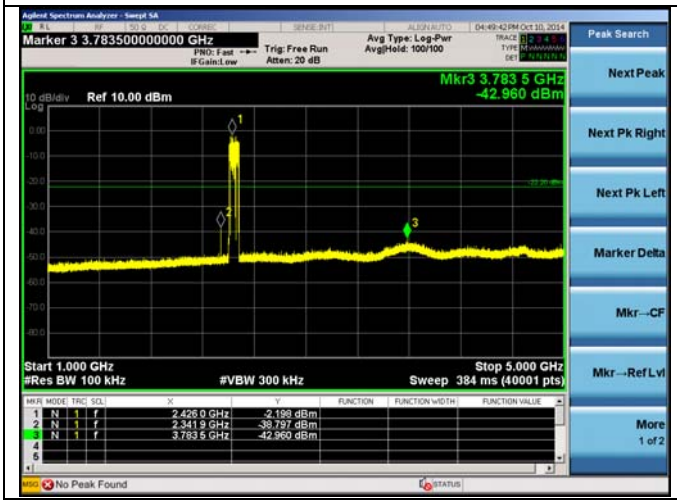
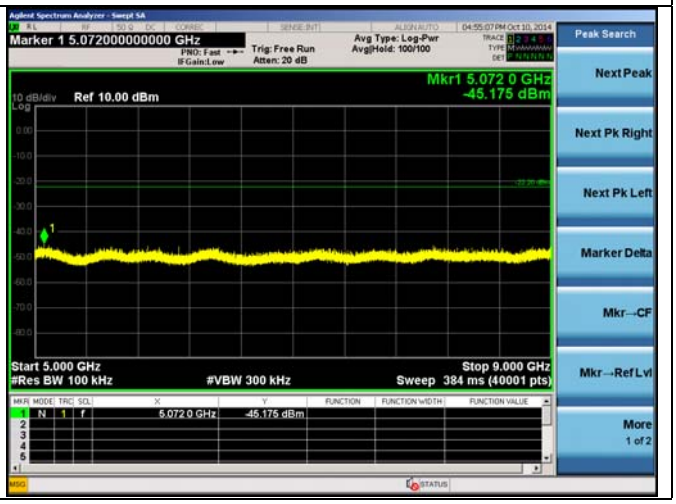
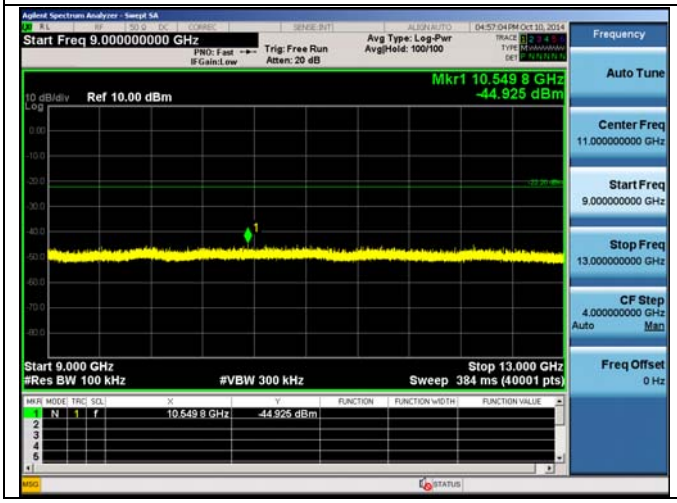
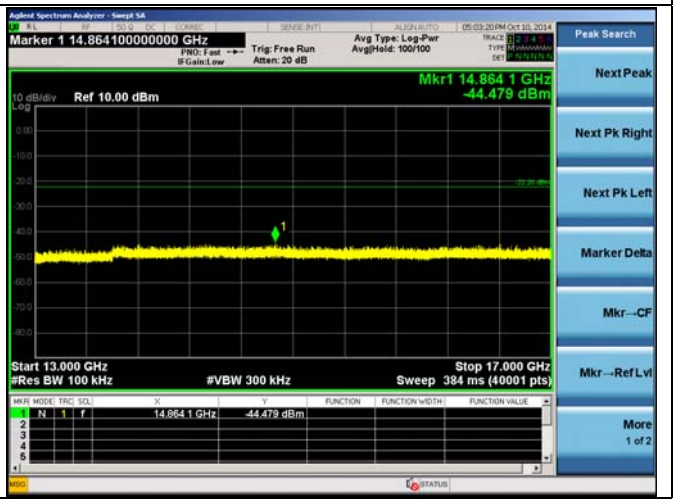
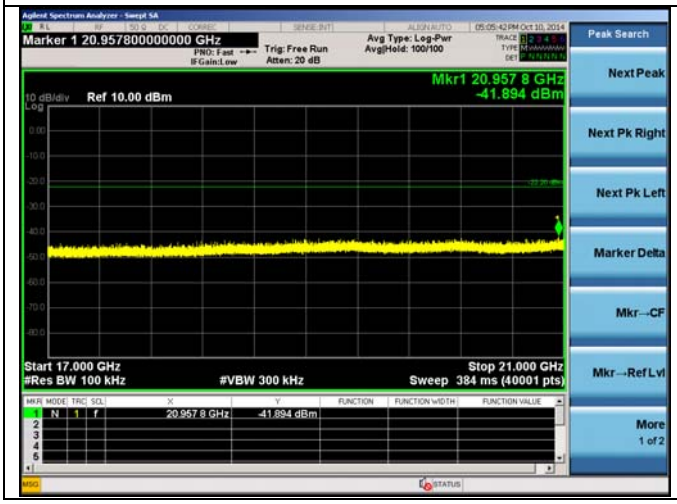
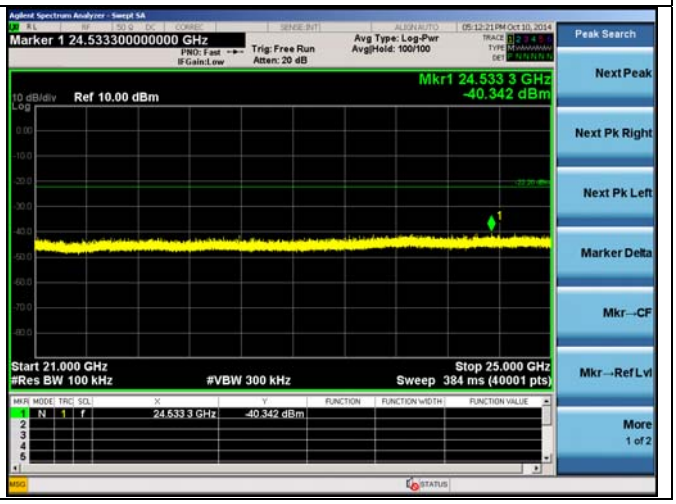


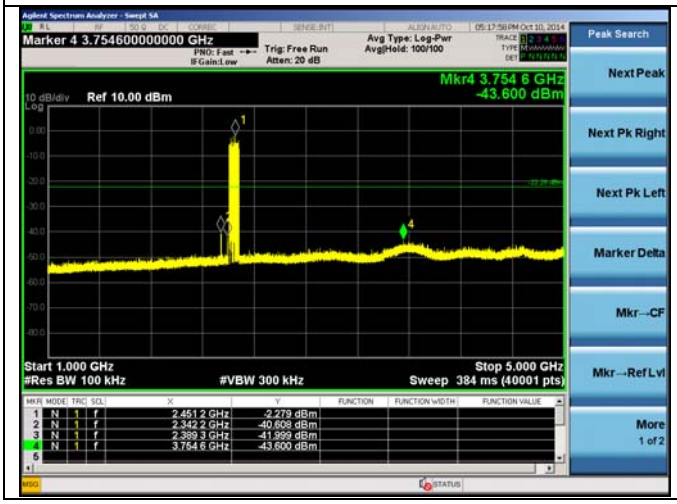
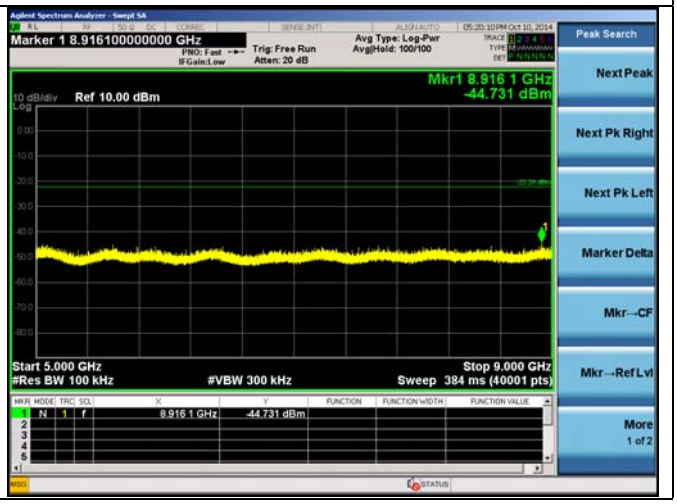
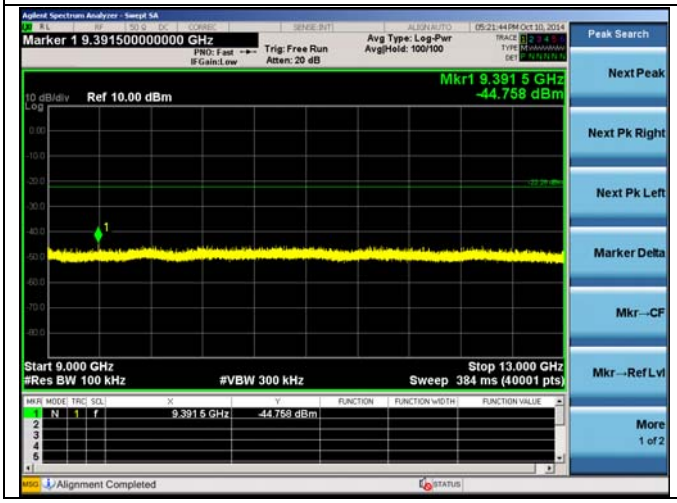
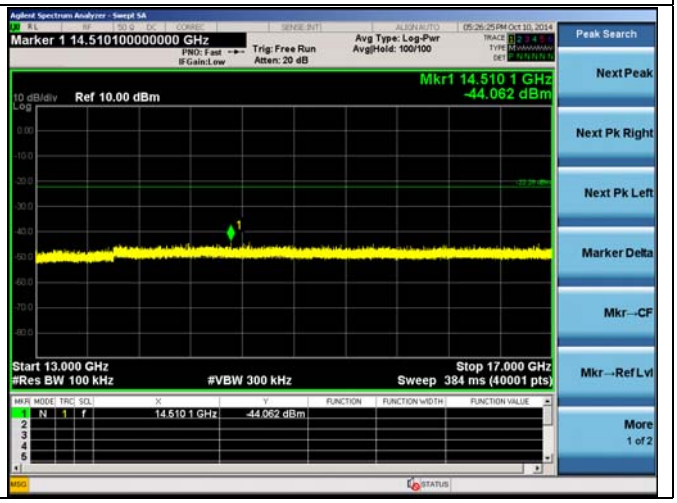
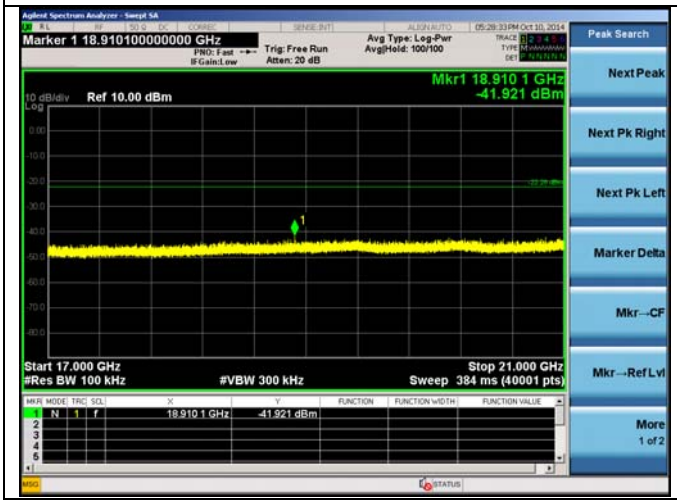
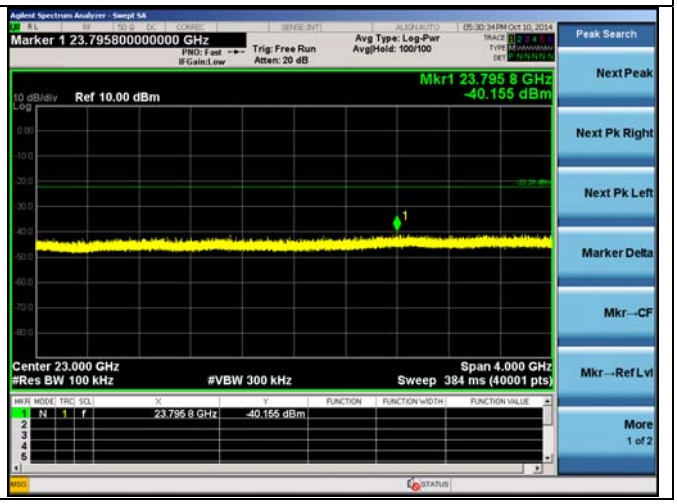
17 – 21 GHz



21 – 25 GHz

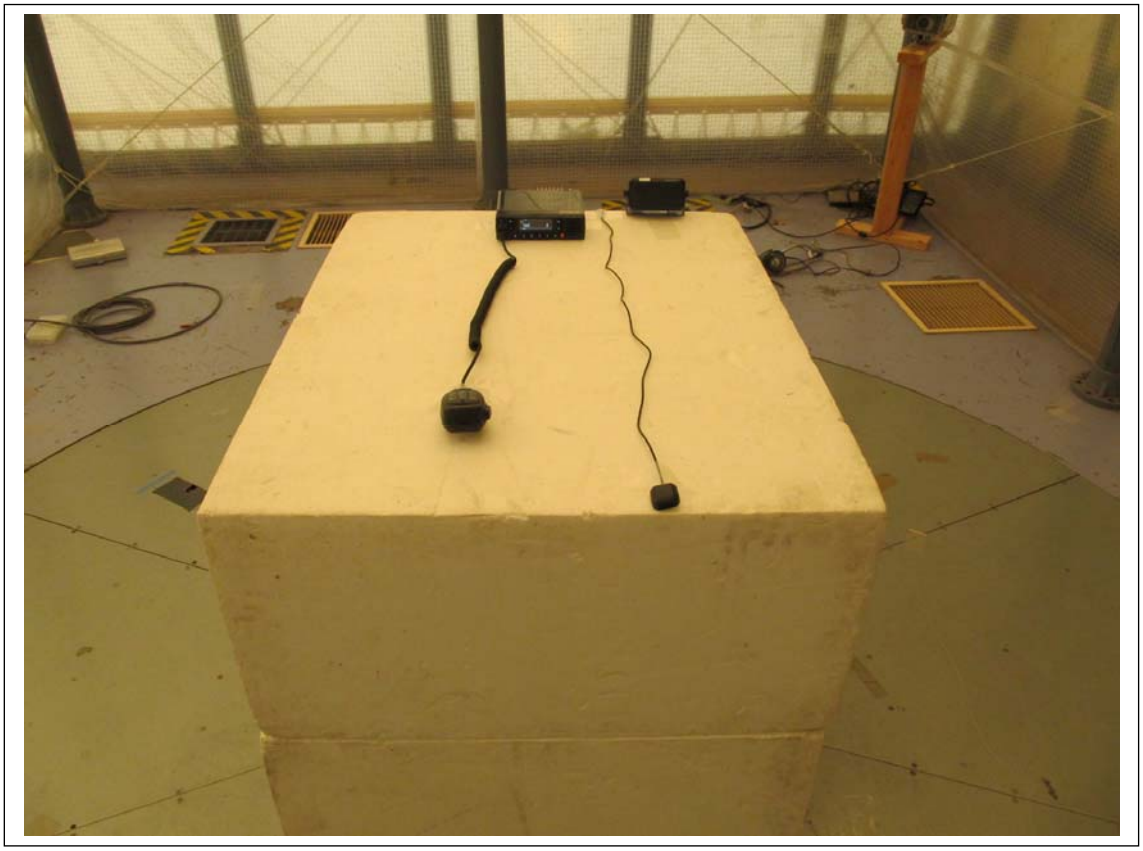


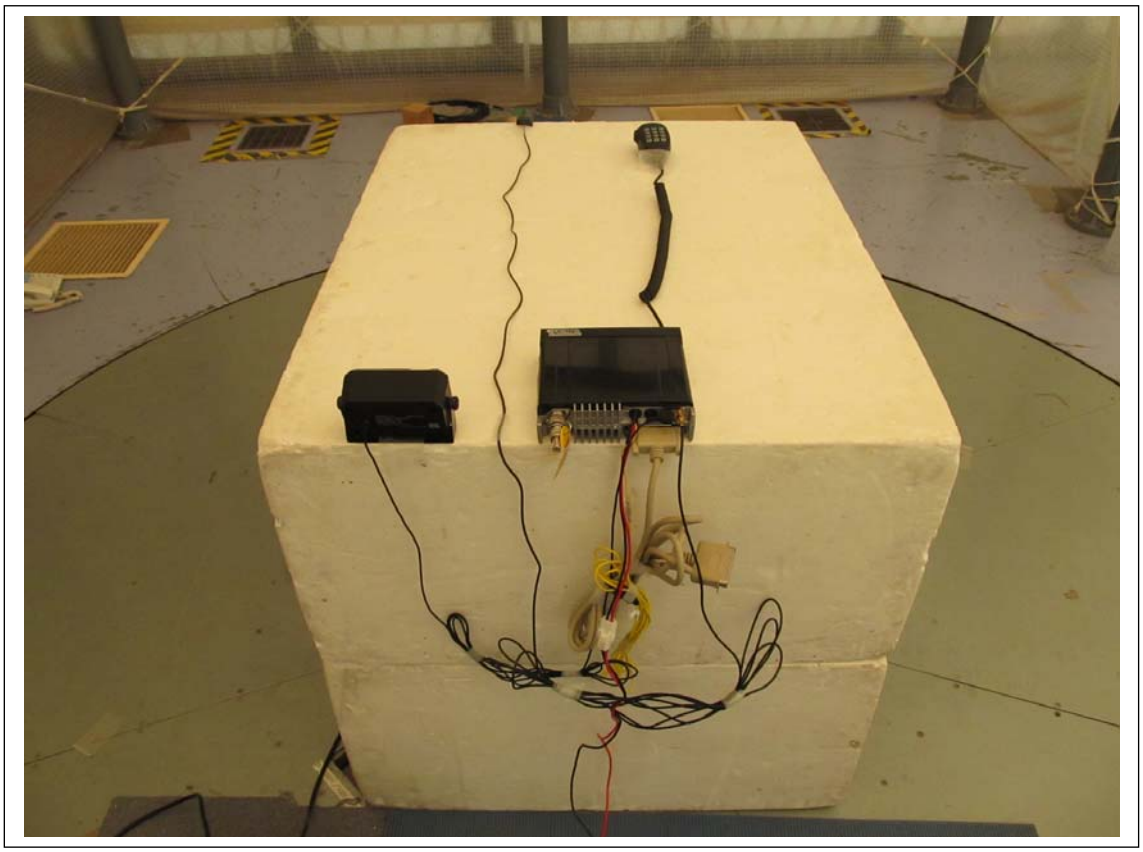
2-DH5, Hopping ON	
1 – 5 GHz	5 – 9 GHz
	
9 – 13 GHz	13 – 17 GHz
	
17 – 21 GHz	21 – 25 GHz
	

3-DH5, Hopping ON	
1 – 5 GHz	5 – 9 GHz
	
9 – 13 GHz	13 – 17 GHz
	
17 – 21 GHz	21 – 25 GHz
	

B. PHOTOGRAPHS OF EMISSION SET-UP

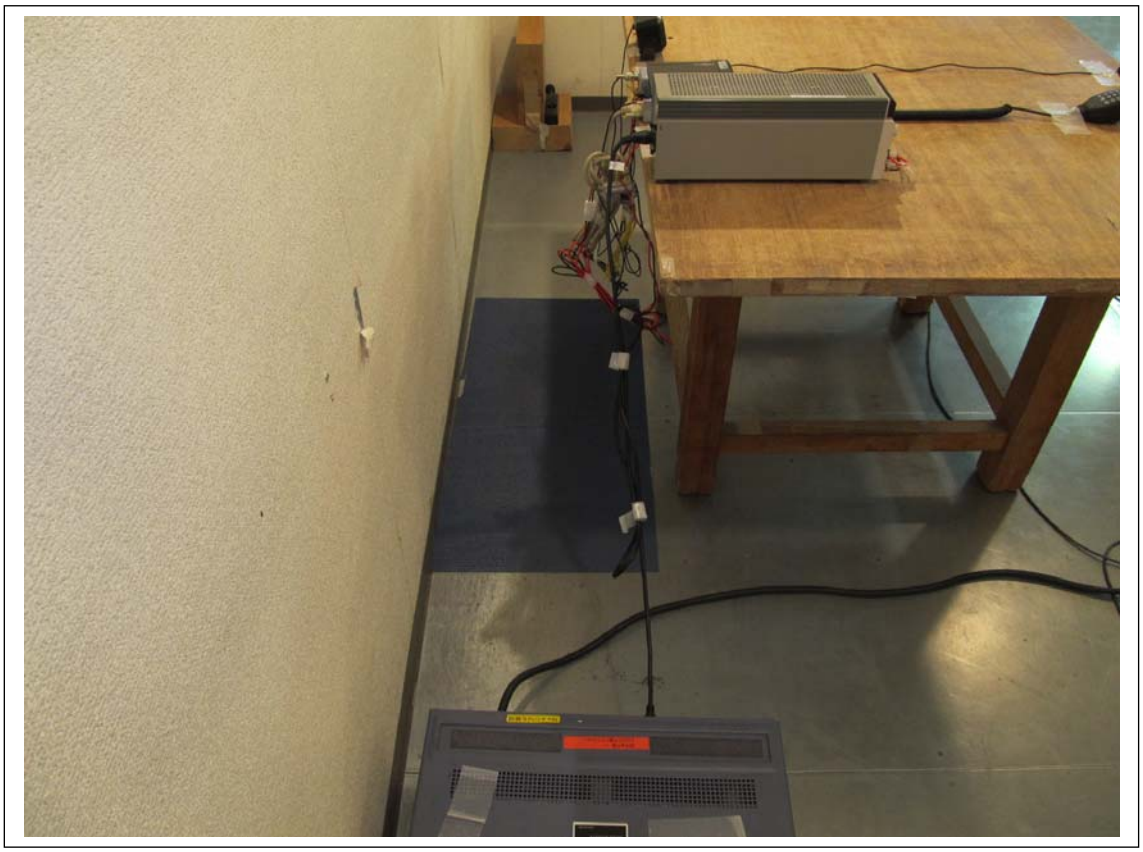
A.2.1 Radiated Spurious Emissions





Note : Maintaining 10cm spacing between all the equipment cabinets.

A.2.2 AC Conducted Emissions



Note : Maintaining 10cm spacing between all the equipment cabinets.