



FCC Radio Test Report

Equipment : WirelessHD Transmitter
Brand Name : EPSON
Model No. : WiT4-G0
FCC ID : BKMAE-WIT4G0
Standard : 47 CFR FCC Part 15.255
Applicant : SEIKO EPSON CORPORATION
3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan
Manufacturer : SEIKO EPSON CORPORATION Toyoshina office
6925 Tazawa, Toyoshina Azumino-shi, Nagano
399-8285 Japan

The product sample received on Dec. 04, 2015 and completely tested on Jan. 26, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013, 47 CFR FCC Part 15.255 and Millimeter Wave Test Procedures and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

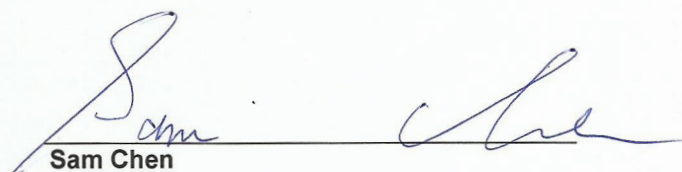

Sam Chen
SPORTON INTERNATIONAL INC.





Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Additional Information Provided by the Submitter	7
1.3	Accessories	8
1.4	Support Equipment.....	8
1.5	EUT Operation during Test	9
1.6	Test Setup Diagram	10
1.7	Testing Applied Standards	14
1.8	Testing Location	14
2	TEST CONFIGURATION OF EQUIPMENT UNDER TEST	15
2.1	Test Channel Frequencies	15
2.2	Conformance Tests and Related Test Frequencies	15
2.3	Far Field Boundary Calculations	16
3	TRANSMITTER TEST RESULT	17
3.1	AC Power Conducted Emissions	17
3.2	Occupied Bandwidth	21
3.3	EIRP Power	31
3.4	Peak Conducted Power.....	34
3.5	Transmitter Spurious Emissions.....	36
3.6	Frequency Stability.....	47
3.7	Operation Restriction and Group Installation	50
4	TEST EQUIPMENT AND CALIBRATION DATA	51
5	MEASUREMENT UNCERTAINTY	53
	APPENDIX A. TEST PHOTOS.....	A1 ~ A6

Summary of Test Result

Standard Requirements and Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Result	Remark
3.1	FCC 15.207	AC Power Conducted Emissions	Complied	-
3.2	FCC 15.255(e)	Occupied Bandwidth	Complied	-
3.3	FCC 15.255(b)(1)	EIRP Power	Complied	-
3.4	FCC 15.255(e)	Peak Conducted Power	Complied	-
3.5	FCC 15.255(c)	Transmitter Spurious Emissions	Complied	-
3.6	FCC 15.255(f)	Frequency Stability	Complied	-
3.7	FCC 15.255(a),(h)	Operation Restriction and Group Installation	Complied	-

Revision History

[illegible]

1 General Description

1.1 Information

1.1.1 The Channel Plan(s)

The Channel Plan(s)	
Low-rate PHY (LRP) Band	Channel 2 LRP: 60.16275-60.79725 GHz Channel 3 LRP: 62.32275-62.95725 GHz
LRP Channel List	Channel 2 LRP: 60.16275-60.79725 GHz: 60.16275 +n x 0.158625 (n=0, 1, 2, 3, 4) GHz Channel 3 LRP: 62.32275-62.95725 GHz: 62.32275 +n x 0.158625 (n=0, 1, 2, 3, 4) GHz
High-rate PHY (HRP) Band	Channel 2 HRP: 60.48 GHz Channel 3 HRP: 62.64 GHz

1.1.2 Transmit Operating Modes

The Different Transmit Operating Modes	
☒	Operating mode 1: Smart Antenna Systems - with beam forming
☐	Operating mode 2: Smart Antenna Systems - without beam forming
☐	Operating mode 3: Single Antenna Equipment

1.1.3 Antenna Information

Antenna Information		
☐ Equipment placed on the market without antennas		
☒ Integral antenna		
Integral antenna gain	6 dBi for LRP	16 dBi for HRP
	☐ Temporary RF connector provided	
	☒ No temporary RF connector provided	
☐ External antenna (dedicated antennas)		
	☐ Single power level with corresponding antenna(s)	
	☐ Multiple power settings and corresponding antenna(s)	

**1.1.4 Power Levels**

Worst Power Levels for LRP			
Applicable power levels	☐ Conducted ☒ EIRP		
Antenna gain	6 dBi		
Frequency (GHz)	Highest setting (P_{high}): (dBm)		
	Modulation	AV Power	Peak Power
60.79725	BPSK	22.41	32.39

Worst Power Levels for HRP			
Applicable power levels	☐ Conducted ☒ EIRP		
Integral antenna gain	16 dBi		
Frequency (GHz)	Highest setting (P_{high}): (dBm)		
	Modulation	AV Power	Peak Power
60.48	QPSK and 16-QAM	30.60	39.21

1.1.5 Extreme Operating

The Extreme Operating Temperature Range that Apply to the Equipment	
☒ -20 °C to +50 °C	
☐ 0 °C to +40 °C	
☐ Other:	
EUT Power Type	From power adapter
Supply Voltage	☒ AC State AC voltage 120 V
Supply Voltage	☐ DC State DC voltage V

1.1.6 Equipment Use Condition

Equipment Use Condition
☐ Fixed field disturbance sensors at 61-61.5GHz
☐ Except fixed field disturbance sensors at 61-61.5GHz
☒ Except fixed field disturbance sensors

1.1.7 User Condition

Intended Operation
☒ Indoor only
☐ Outdoor only



1.2 Additional Information Provided by the Submitter

1.2.1 Modulation

Modulation	
The LRP modulation is BPSK / data rate is 20.337 Mb/s.	
The HRP modulation is QPSK or 16-QAM / data rate is QPSK at 0.952 Gb/s (Quarter Rate), QPSK at 1.904 Gb/s (Half Rate) and 16-QAM at 3.807 Gb/s (Full Rate).	
Can the transmitter operate un-modulated:	☒ Yes ☐ No

1.2.2 Duty Cycle

Duty Cycle			Duty Cycle Factor
The transmitter is intended for	LRP	24.00 %	6.20
	HRP	20.00 %	6.99

1.3 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	Remark
Adapter	PHIHONG	PSAC30U-120L6	INPUT: 100-240V~0.8A 50-60Hz 60-80VA OUTPUT: 12V, 2.5A	DC power cable: Non-shielded, 1.5m
Others				
Power cable*1: Non-shielded, 1.8m				
HDMI cable*1: Shielded, 2m				

1.4 Support Equipment

Test Site: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	LCD Projector (RX Device)	ESPON	H714A	BKMAE-WIT4RX
2	Notebook	DELL	E6430	DoC
3	Debug Board	N/A	N/A	N/A
4	DVD Player	SONY	BDP-S6500	DoC
5	Flash Disk	Silicon	I-Series	DoC

Test Site: 03CH01-CB and TH01-CB

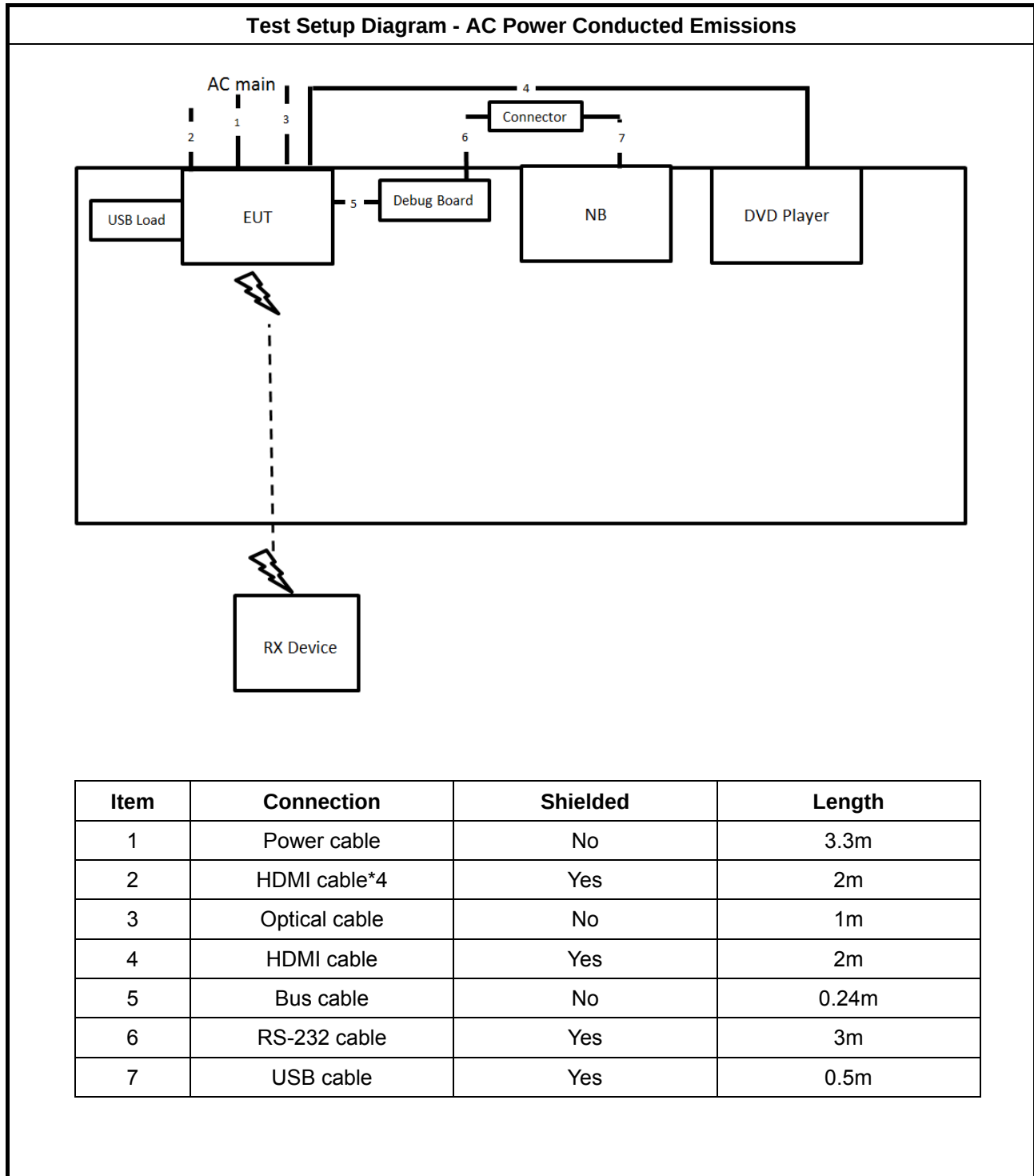
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	DVD Player	SONY	BDP-S6500	DoC
3	LCD Projector (RX Device)	ESPON	H714A	BKMAE-WIT4RX
4	Debug Board	N/A	N/A	N/A

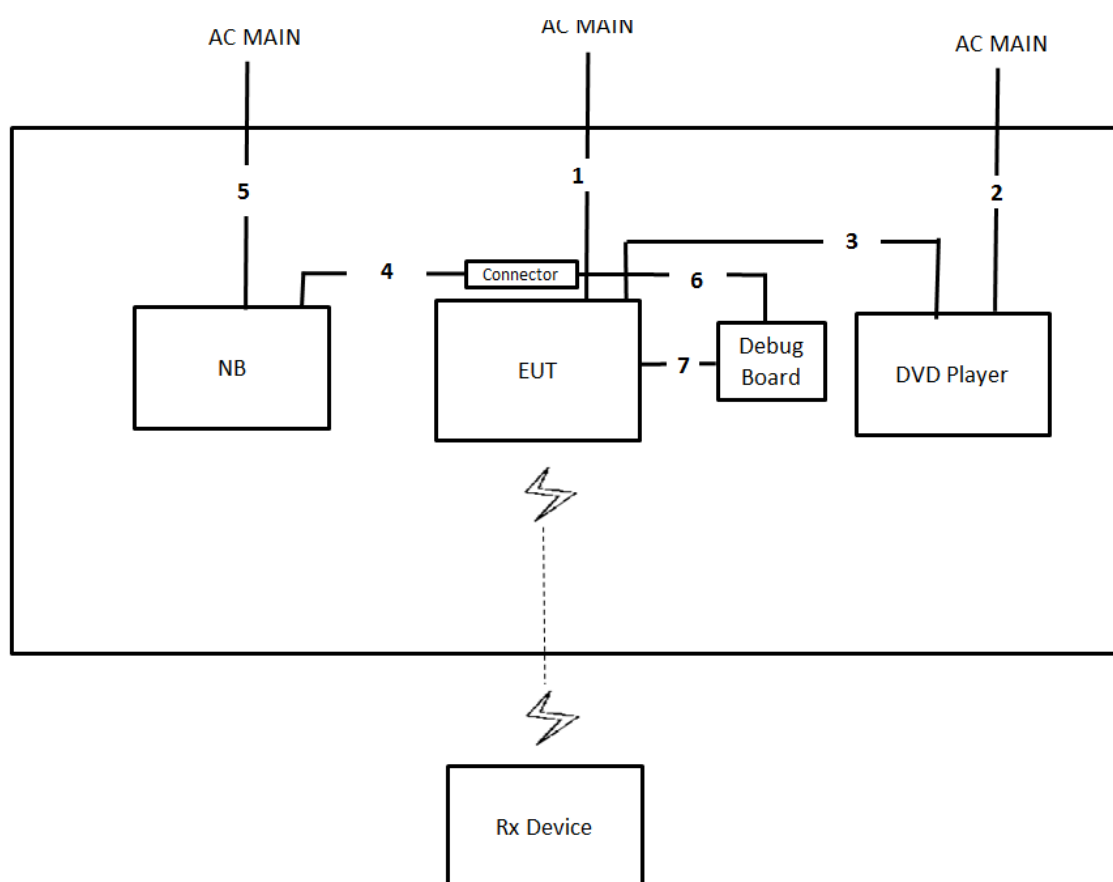


1.5 EUT Operation during Test

High Definition Audio / Video in the 1080p format was sent from the transmitter device to the receiver device via the wireless link.

1.6 Test Setup Diagram

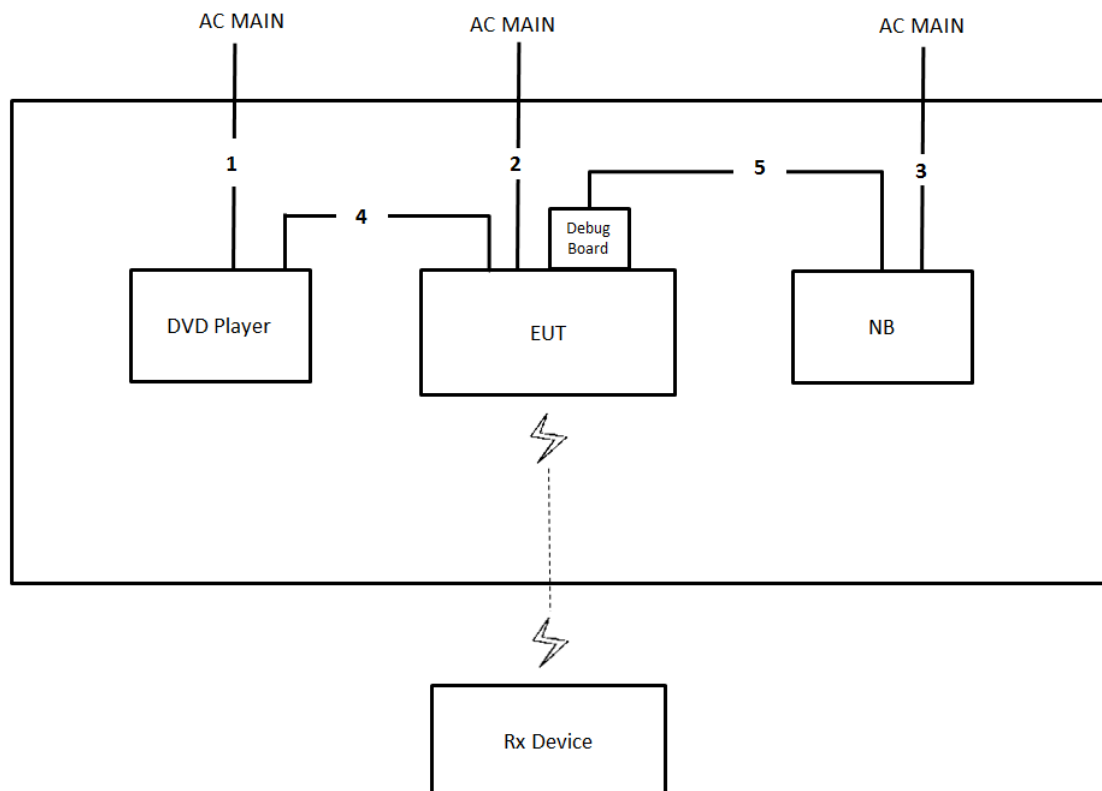


Test Setup Diagram - Transmitter Spurious Emissions (below 1 GHz)


Item	Connection	Shielded	Length
1	Power cable	No	3.3m
2	Power cable	No	2.9m
3	HDMI cable	Yes	2m
4	USB cable	Yes	0.5m
5	Power cable	No	2.6m
6	RS-232 Cable	Yes	3m
7	Bus cable	No	0.24m

Test Setup Diagram - Transmitter Spurious Emissions (above 1 GHz)

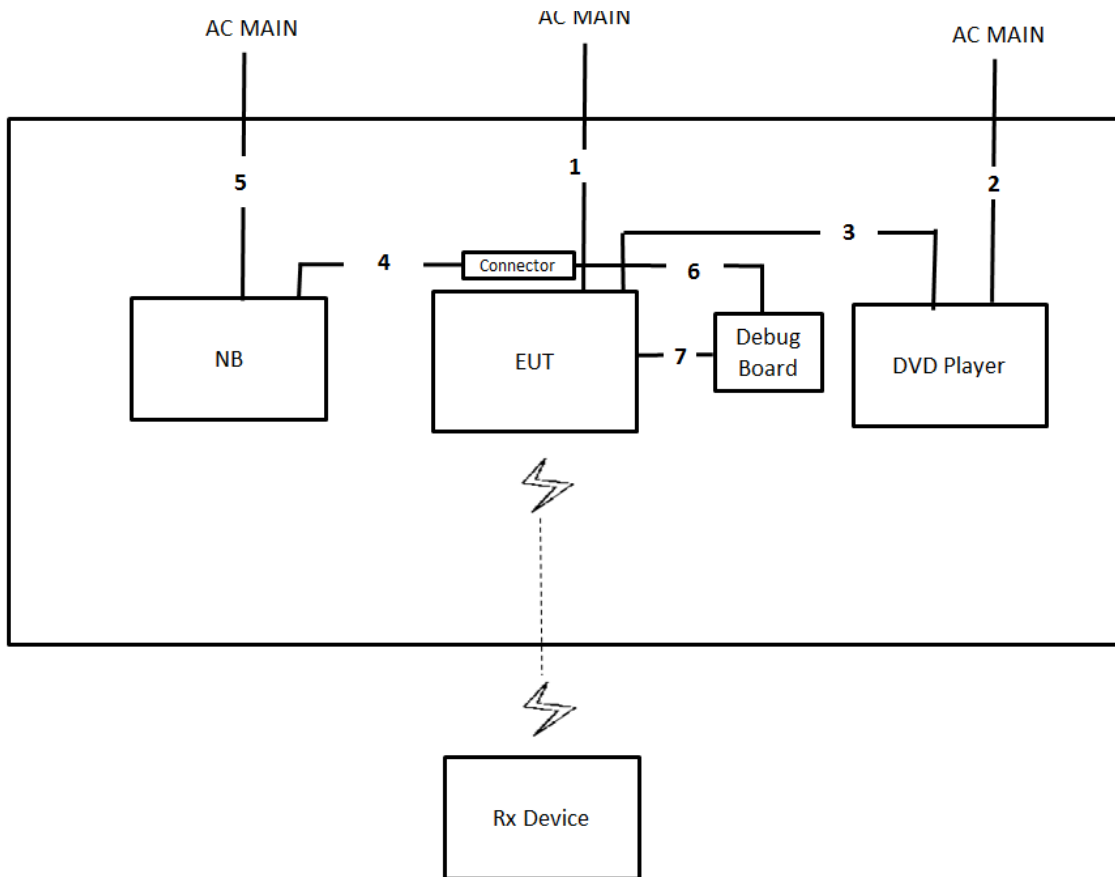
For Channel 2:



Item	Connection	Shielded	Length
1	Power cable	Yes	3.3m
2	Power cable	No	2.9m
3	Power cable	No	2.6m
4	HDMI cable	Yes	2m
5	USB cable	No	1.5m

Test Setup Diagram - Transmitter Spurious Emissions (above 1 GHz)

For Channel 3:



Item	Connection	Shielded	Length
1	Power cable	No	3.3m
2	Power cable	No	2.9m
3	HDMI cable	Yes	2m
4	USB cable	Yes	0.5m
5	Power cable	No	2.6m
6	RS-232 Cable	Yes	3m
7	Bus cable	No	0.24m

1.7 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15.255
- ♦ ANSI C63.10-2013 Section 9. "Procedures for testing millimeter-wave systems"

1.8 Testing Location

Testing Location		
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test Site No.		
CO01-CB	03CH01-CB	TH01-CB

2 Test Configuration of Equipment under Test

2.1 Test Channel Frequencies

Nominal Channel Bandwidth			
Channel Plan (GHz)	Low Channel (GHz)	Middle Channel (GHz)	High Channel (GHz)
Channel 2 LRP: 60.16275-60.79725	60.16275	60.48	60.79725
Channel 2 HRP: 60.48	-	60.48	-
Channel 3 LRP: 62.32275-62.95725	62.32275	62.64	62.95725
Channel 3 HRP: 62.64	-	62.64	-

2.2 Conformance Tests and Related Test Frequencies

Test Item	Test Frequencies (GHz)	
	Channel Plan 2&3	
	LRP	HRP
AC Power Conducted Emissions	CTX	
Occupied Bandwidth	60.16275, 60.48, 60.79725 & 62.32275, 62.64, 62.95725	60.48 & 62.64
EIRP Power	60.16275, 60.48, 60.79725 & 62.32275, 62.64, 62.95725	60.48 & 62.64
Peak Conducted Power	60.16275, 60.48, 60.79725 & 62.32275, 62.64, 62.95725	60.48 & 62.64
Transmitter Spurious Emissions (below 1 GHz)	CTX	
Transmitter Spurious Emissions (1 GHz-40 GHz)	60.48 & 62.64	-
Transmitter Spurious Emissions (above 40 GHz)	60.48 & 62.64	60.48 & 62.64
Frequency Stability	Un-Modulation	

2.3 Far Field Boundary Calculations

The far-field boundary is given as:

$$\text{far field} = (2 * L^2) / \lambda$$

where:

L = Largest Antenna Dimension, including the reflector, in meters

λ = wavelength in meters

Far Field (m)				
Frequency (GHz)	L (m)	Lambda (m)	d(Far Field) (m)	d(Far Field) (cm)
60.16275	0.02	0.0049865	0.160	16.04
60.48	0.02	0.0049603	0.161	16.13
60.79725	0.02	0.0049344	0.162	16.21
62.32275	0.02	0.0048137	0.166	16.62
62.64	0.02	0.0047893	0.167	16.70
62.95725	0.02	0.0047651	0.168	16.79

AC Power Conducted Emissions

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long (see ANSI C63.10, clause 6.2.3.2).
2. I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see ANSI C63.10, clause 6.2.2).
3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 ohm loads. LISN can be placed on top of, or immediately beneath, reference ground plane (see ANSI C63.10, clauses 6.2.2 and 6.2.3).
 - 3.1. All other equipment powered from additional LISN(s).
 - 3.2. A multiple-outlet strip can be used for multiple power cords of non-EUT equipment.
 - 3.3. LISN at least 80 cm from nearest part of EUT chassis.
4. Non-EUT components of EUT system being tested.
5. Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop (see ANSI C63.10, clause 6.2.3.2).
6. Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane (see ANSI C63.10, clause 6.2.2 for options).
7. Antenna may be integral or detachable. If detachable, the antenna shall be attached for this test.

3.1.5 Test Result of AC Power Conducted Emissions

Test Conditions see ANSI C63.10, clause 5.11

Test Setup see ANSI C63.10, clause 6.2.3

NOTE 1: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes. If equipment having different transmit operating modes (see test report clause 1.1.2), the measurements are uninfluenced by different transmit operating modes, may not need to be repeated for all the operating modes. Similar, if the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.12 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worse case combination to be used for the conformance testing.

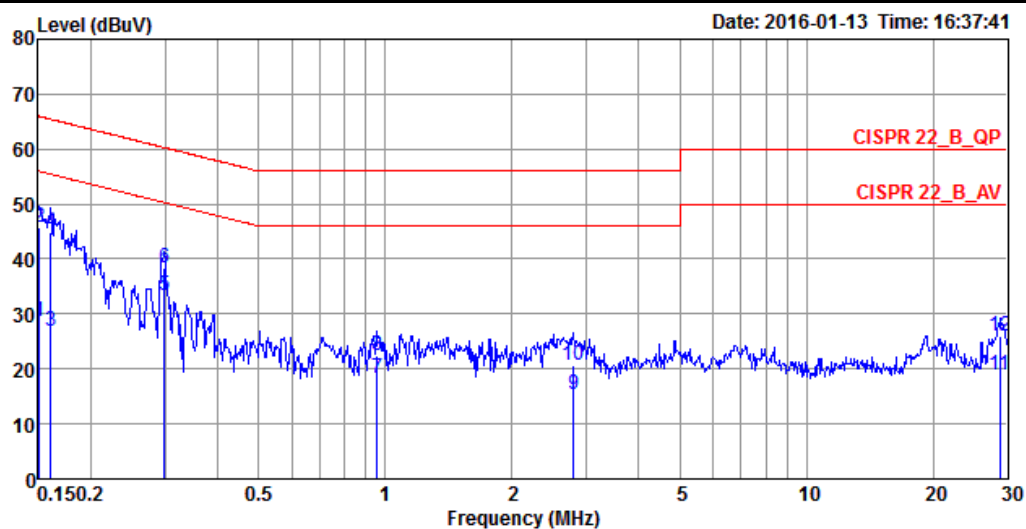
NOTE 2: ">20dB" means the tables in this clause should only list values of spurious emissions that exceed the level of 20 dB below the applicable limit, see ANSI C63.4, clause 10.1.8.1.



FCC Radio Test Report

Report No. : FR5D0420

Temp	23°C	Humidity	59%
Test Engineer	Deven Huang	Phase	Line
Configuration	CTX		



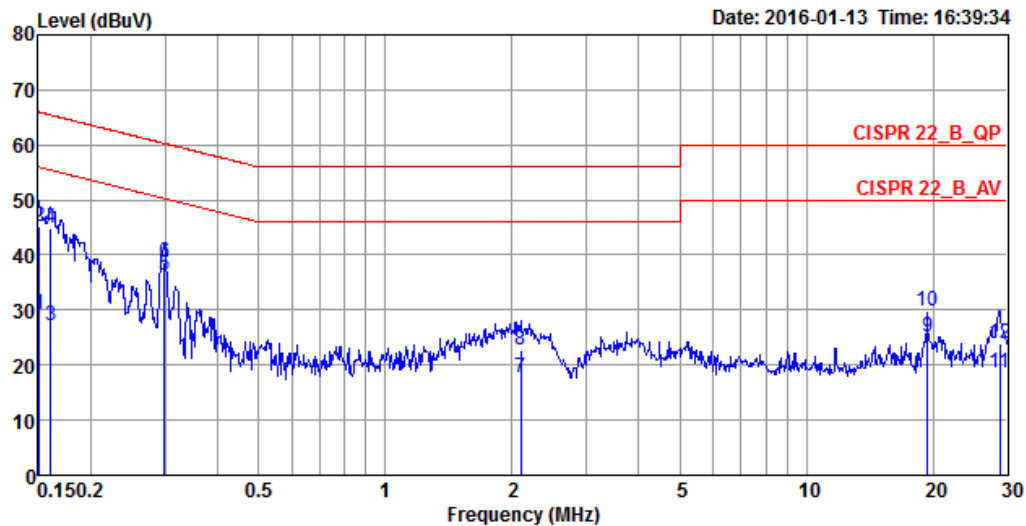
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1508	28.66	-27.30	55.96	18.71	9.93	0.02	LINE	Average
2	0.1508	45.69	-20.27	65.96	35.74	9.93	0.02	LINE	QP
3	0.1607	26.85	-28.58	55.43	16.90	9.93	0.02	LINE	Average
4	0.1607	44.80	-20.63	65.43	34.85	9.93	0.02	LINE	QP
5	0.2987	33.28	-17.00	50.28	23.31	9.93	0.04	LINE	Average
6	0.2987	38.30	-21.98	60.28	28.33	9.93	0.04	LINE	QP
7	0.9582	18.31	-27.69	46.00	8.30	9.96	0.05	LINE	Average
8	0.9582	22.37	-33.63	56.00	12.36	9.96	0.05	LINE	QP
9	2.7942	15.35	-30.65	46.00	5.30	10.00	0.05	LINE	Average
10	2.7942	20.68	-35.32	56.00	10.63	10.00	0.05	LINE	QP
11	28.7550	19.02	-30.98	50.00	8.08	10.66	0.28	LINE	Average
12	28.7550	25.97	-34.03	60.00	15.03	10.66	0.28	LINE	QP



FCC Radio Test Report

Report No. : FR5D0420

Temp	23°C	Humidity	59%
Test Engineer	Deven Huang	Phase	Neutral
Configuration	CTX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1508	29.26	-26.70	55.96	19.46	9.78	0.02	NEUTRAL	Average
2	0.1508	45.26	-20.70	65.96	35.46	9.78	0.02	NEUTRAL	QP
3	0.1607	27.17	-28.26	55.43	17.37	9.78	0.02	NEUTRAL	Average
4	0.1607	44.79	-20.64	65.43	34.99	9.78	0.02	NEUTRAL	QP
5	0.2987	36.22	-14.06	50.28	26.39	9.79	0.04	NEUTRAL	Average
6	0.2987	38.56	-21.72	60.28	28.73	9.79	0.04	NEUTRAL	QP
7	2.0990	17.64	-28.36	46.00	7.74	9.84	0.06	NEUTRAL	Average
8	2.0990	22.79	-33.21	56.00	12.89	9.84	0.06	NEUTRAL	QP
9	19.4284	25.18	-24.82	50.00	14.75	10.17	0.26	NEUTRAL	Average
10	19.4284	29.69	-30.31	60.00	19.26	10.17	0.26	NEUTRAL	QP
11	28.7550	18.63	-31.37	50.00	8.02	10.33	0.28	NEUTRAL	Average
12	28.7550	23.90	-36.10	60.00	13.29	10.33	0.28	NEUTRAL	QP

3.2 Occupied Bandwidth

3.2.1 Limit of Occupied Bandwidth

6dBc Bandwidth (see Note 1)	None
26dBc Bandwidth	None
99% Occupied Bandwidth (see Note 2)	None

NOTE 1: The 6dBc bandwidth is the frequency bandwidth of the signal power at the -6 dBc points when measured with a 100 kHz resolution bandwidth. These measurements shall also be performed at normal test conditions.

NOTE 2: The 99% occupied bandwidth is the frequency bandwidth of the signal power at the 99% channel power of occupied bandwidth when resolution bandwidth should be approximately 1 % to 5 % of the occupied bandwidth (OBW). These measurements shall also be performed at normal test conditions.

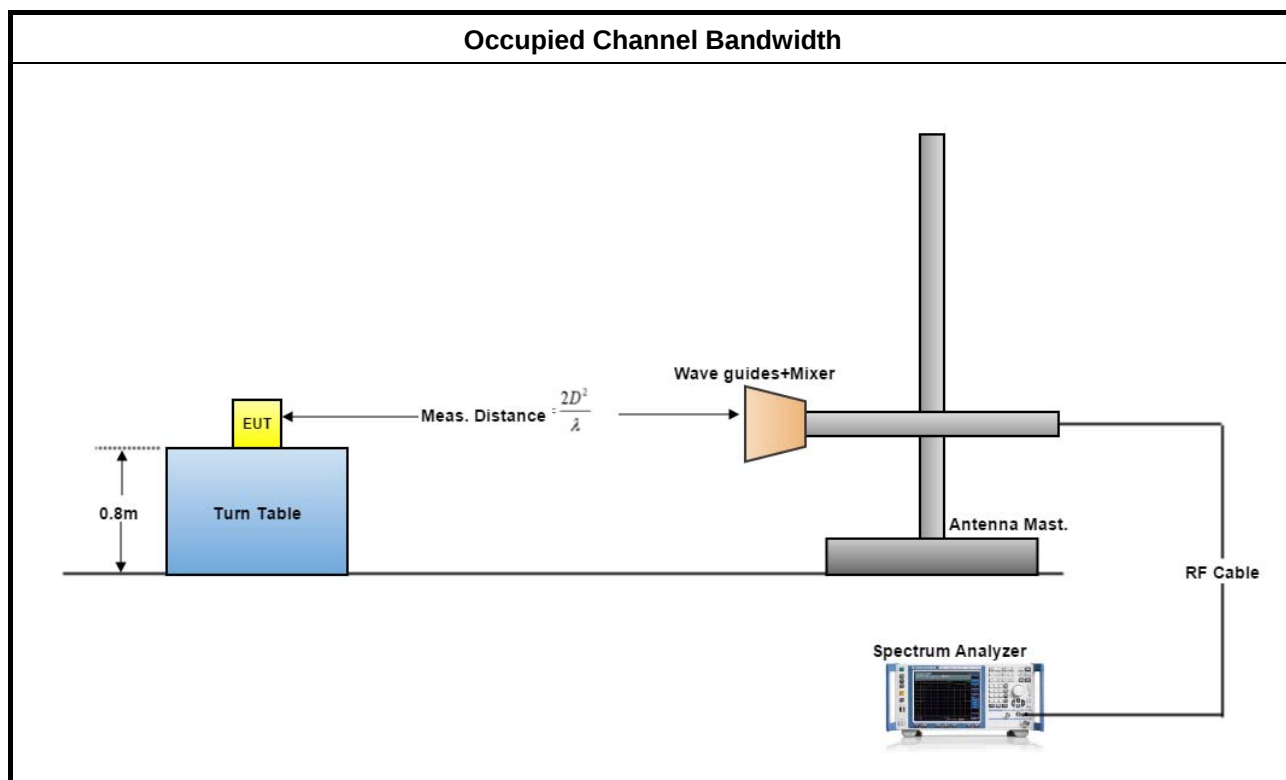
3.2.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.2.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clauses 6.9.2.

3.2.4 Test Setup



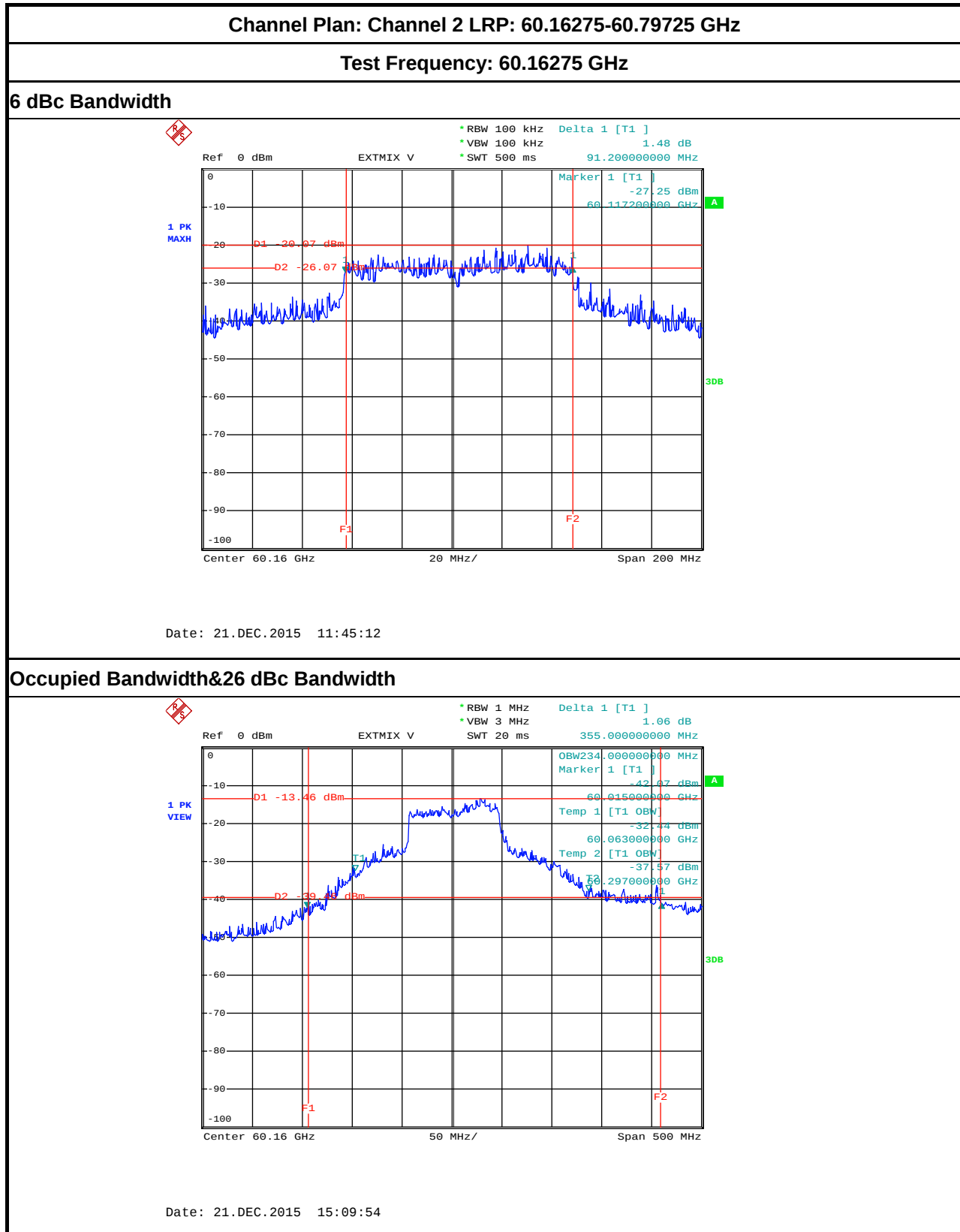
3.2.5 Test Result of Occupied Bandwidth

Test Conditions	see ANSI C63.10, clause 5.11
Test Setup	see ANSI C63.10, clause 6.9.2
NOTE: If equipment having different transmit operating modes (see test report clause 1.1.2), the measurements are uninfluenced by different transmit operating modes, may not need to be repeated for all the operating modes. Similar, if the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worse case combination to be used for the conformance testing. Refer as ANSI C63.10, clause 15, observe and record with plotted graphs or photographs the worst-case (i.e., widest) occupied bandwidth produced by these different modulation sources.	

Temp	20.5°C		Humidity	32%	
Test Engineer	Owen Hsu				
Test Results					
Channel Plan (GHz)	Test Freq. (GHz)	6 dBc Bandwidth (MHz)	Occupied Bandwidth (MHz)	26 dBc Bandwidth (MHz)	Limit (MHz)
Channel 2 LRP: 60.16275-60.79725	60.16275	91.20	234.00	355.00	N/A
	60.48	91.20	252.00	377.00	N/A
	60.79725	91.20	282.00	399.00	N/A
Channel 2 HRP: 60.48	60.48	1744.00	2152.00	3392.00	N/A
Channel 3 LRP: 62.32275-62.95725	62.32275	94.00	252.00	374.00	N/A
	62.64	90.80	268.00	387.00	N/A
	62.95725	91.20	227.00	299.00	N/A
Channel 3 HRP: 62.64	62.64	1760.00	1840.00	2944.00	N/A

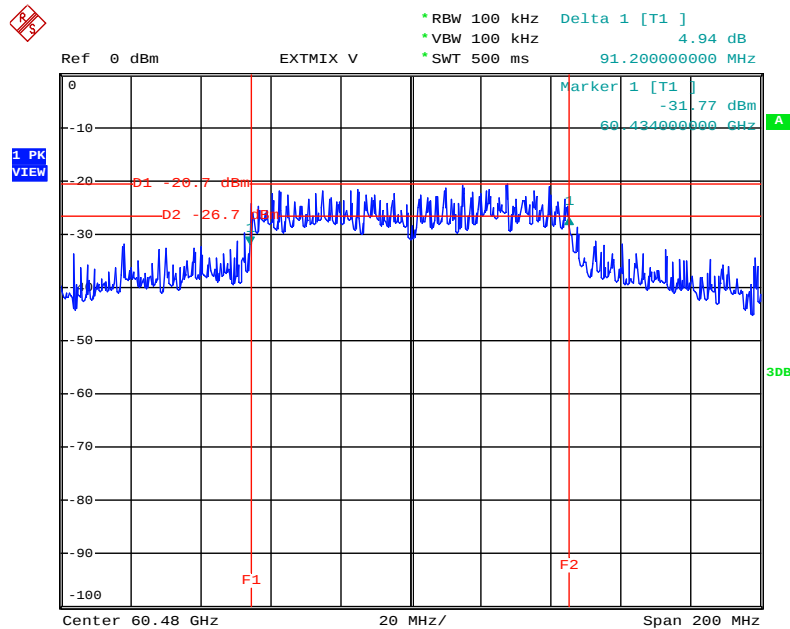


3.2.5.1 Bandwidth Plots



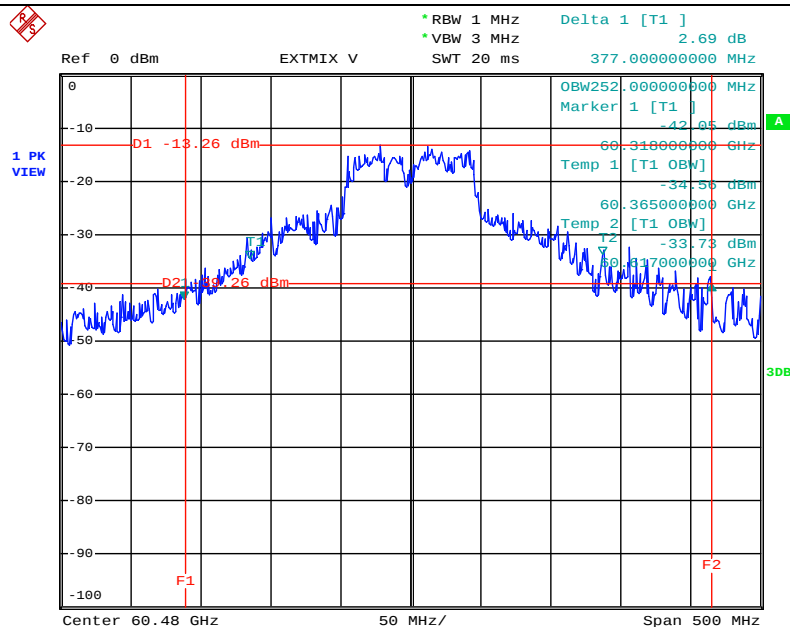
Test Frequency: 60.48 GHz

6 dBc Bandwidth



Date: 20.DEC.2015 17:59:12

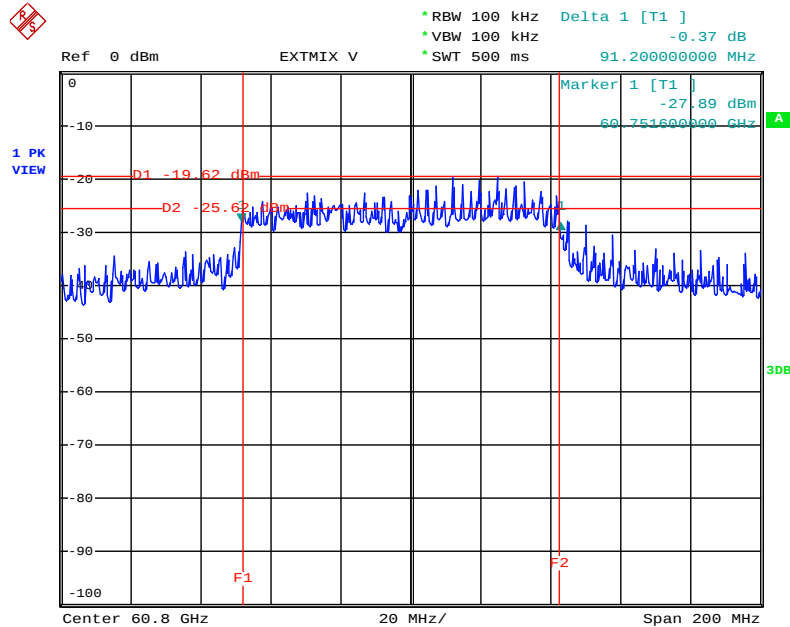
Occupied Bandwidth&26 dBc Bandwidth



Date: 21.DEC.2015 15:19:51

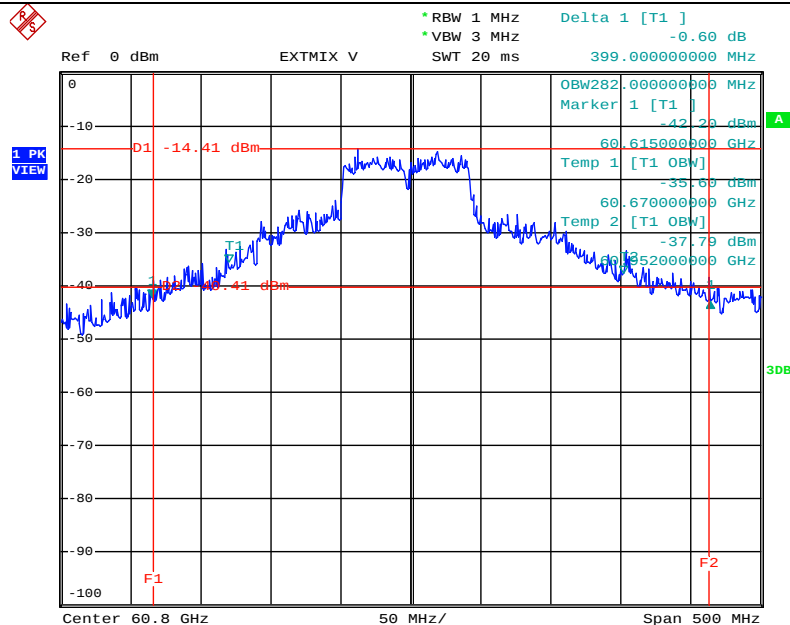
Test Frequency: 60.79725 GHz

6 dBc Bandwidth



Date: 20.DEC.2015 17:47:20

Occupied Bandwidth&26 dBc Bandwidth



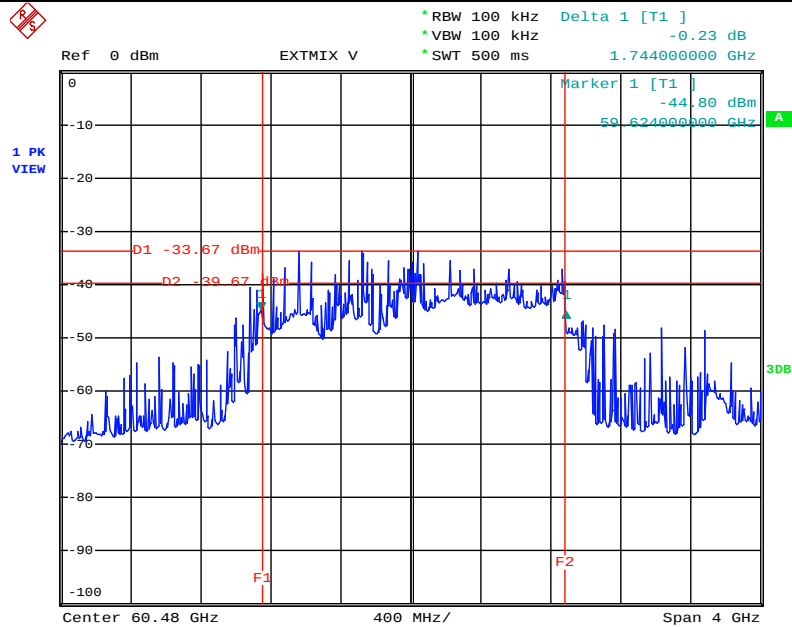
Date: 21.DEC.2015 15:28:56



Channel Plan: Channel 2 HRP: 60.48 GHz

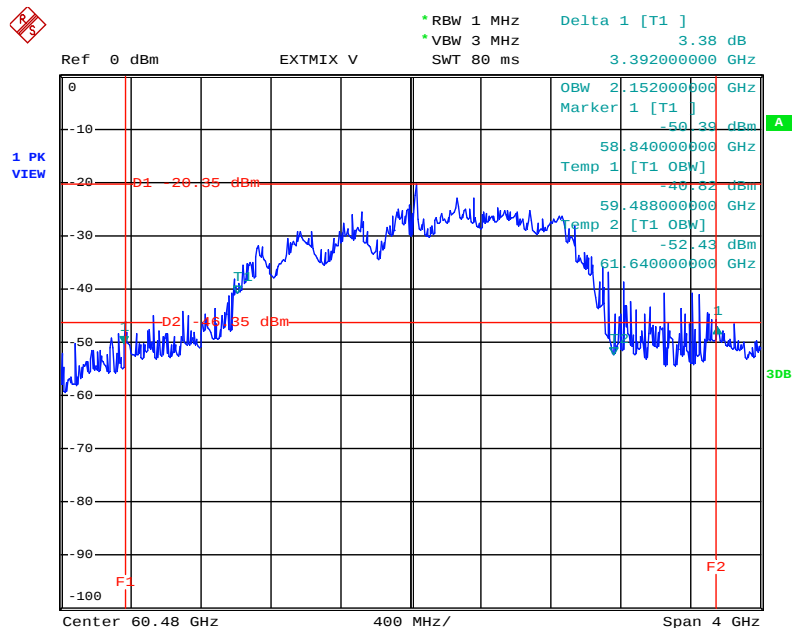
Test Frequency: 60.48 GHz

6 dBc Bandwidth



Date: 18.DEC.2015 16:01:32

Occupied Bandwidth&26 dBc Bandwidth

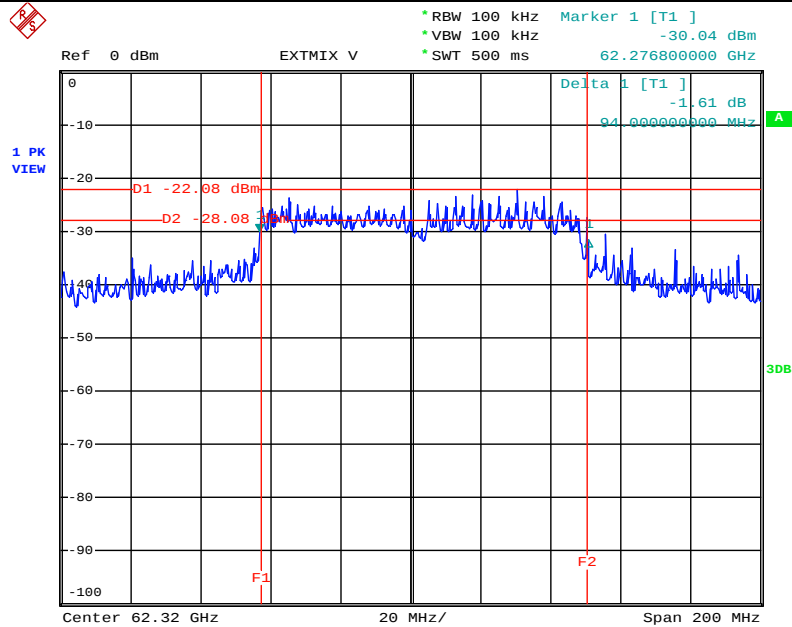


Date: 18.DEC.2015 15:28:26

Channel Plan: Channel 3 LRP: 62.32275-62.95725 GHz

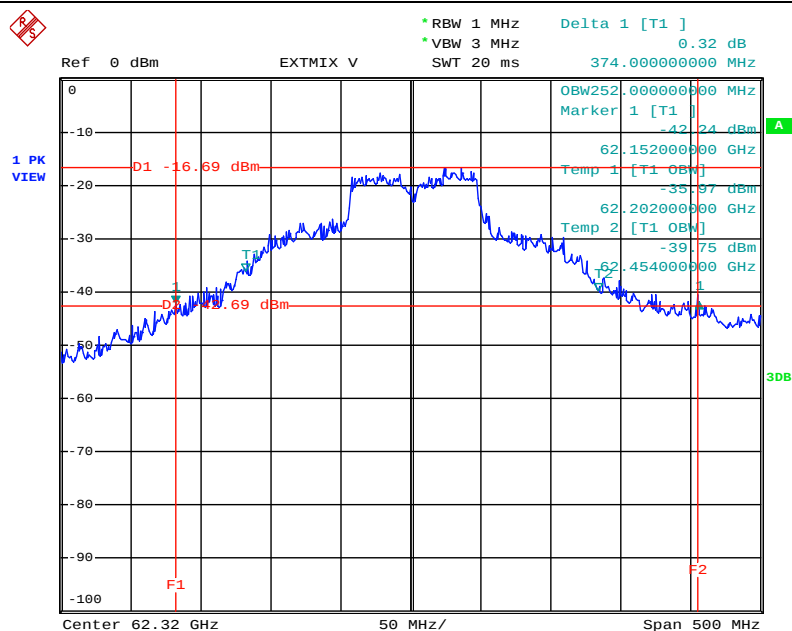
Test Frequency: 62.32275 GHz

6 dBc Bandwidth



Date: 21.DEC.2015 13:36:12

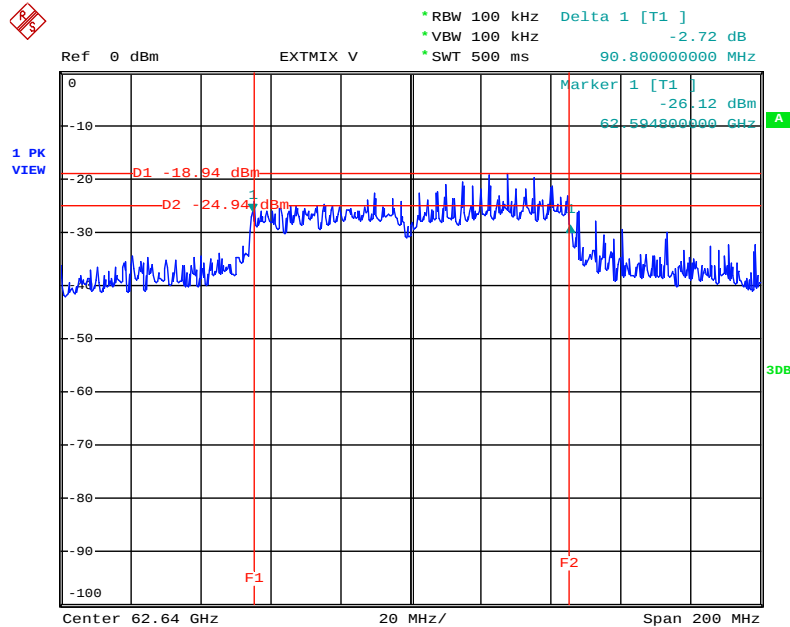
Occupied Bandwidth&26 dBc Bandwidth



Date: 21.DEC.2015 15:05:11

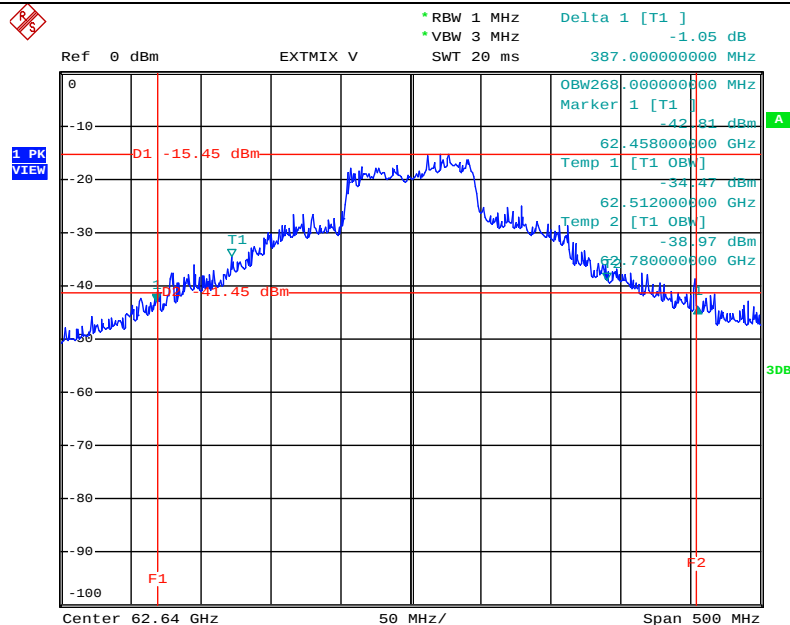
Test Frequency: 62.64 GHz

6 dBc Bandwidth



Date: 21.DEC.2015 13:47:43

Occupied Bandwidth&26 dBc Bandwidth

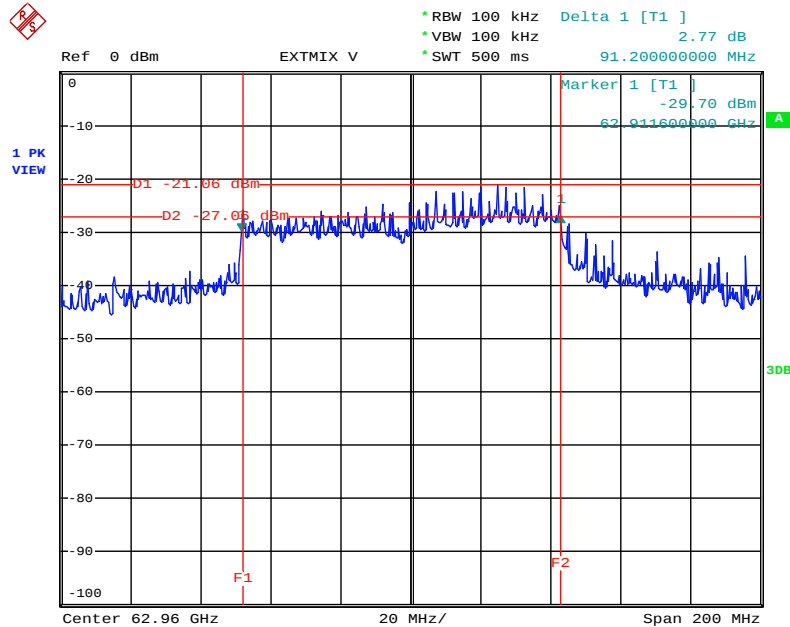


Date: 21.DEC.2015 14:55:27



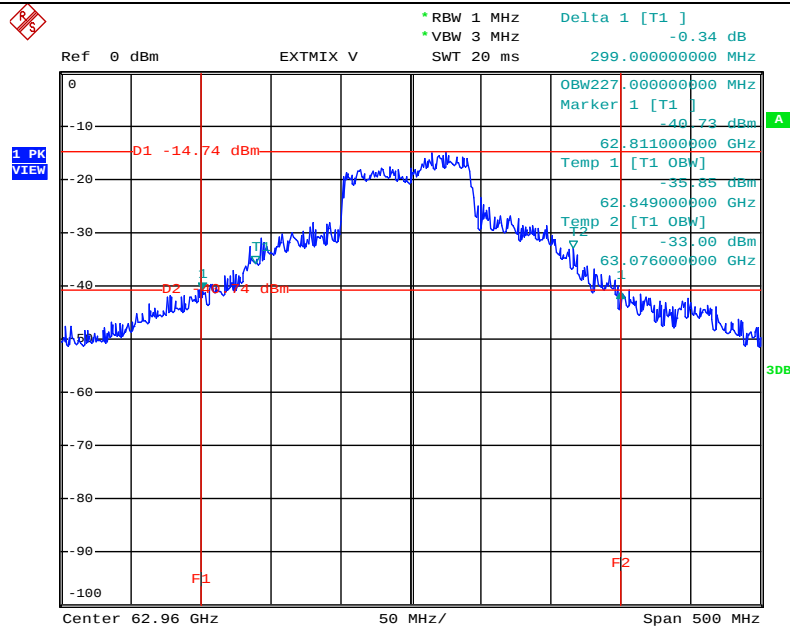
Test Frequency: 62.95725 GHz

6 dBc Bandwidth



Date: 21.DEC.2015 14:29:16

Occupied Bandwidth&26 dBc Bandwidth



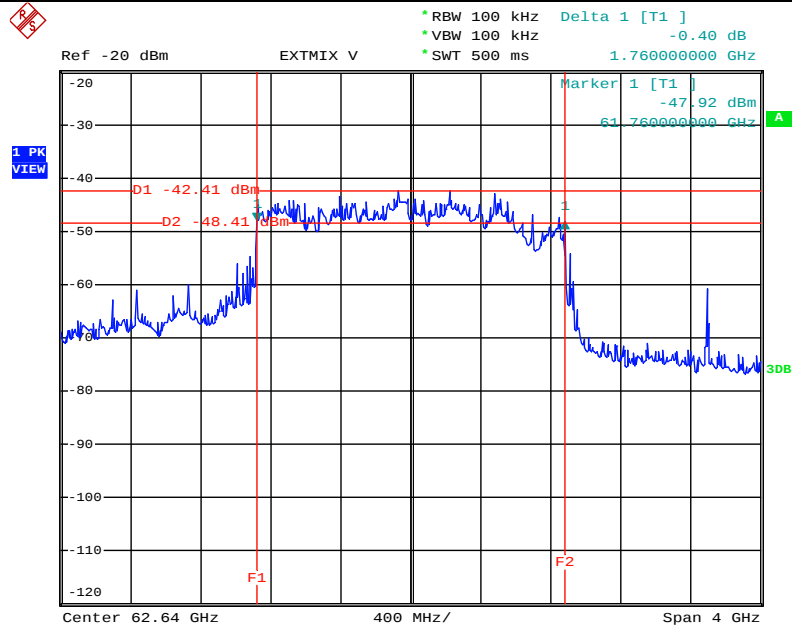
Date: 21.DEC.2015 14:47:07



Channel Plan: Channel 3 HRP: 62.64 GHz

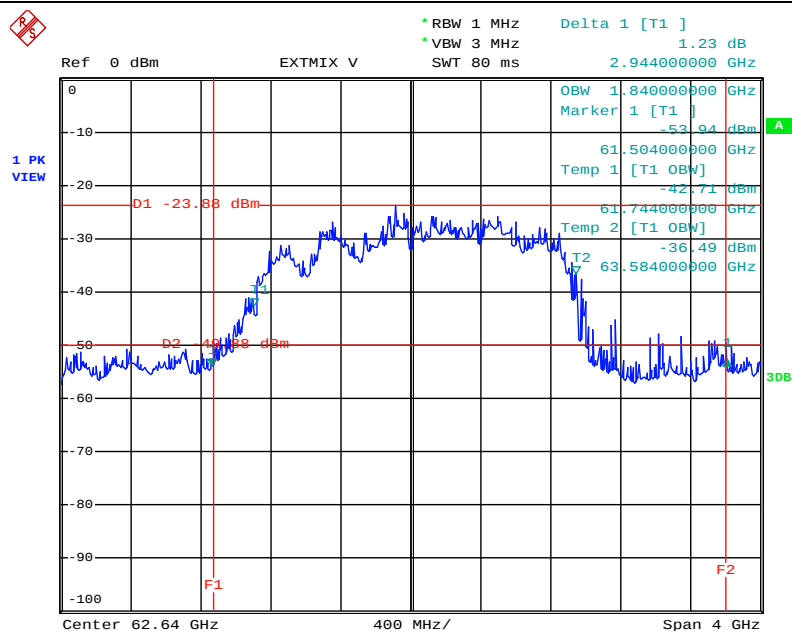
Test Frequency: 62.64 GHz

6 dBc Bandwidth



Date: 26.JAN.2016 21:27:52

Occupied Bandwidth&26 dBc Bandwidth



Date: 18.DEC.2015 13:58:49

3.3 EIRP Power

3.3.1 Limit of EIRP Power

EIRP Power Limit		
Use Condition	EIRP Average Power	EIRP Peak Power
Fixed field disturbance sensors at 61-61.5GHz	10.08 dBm	13.09 dBm
Except fixed field disturbance sensors at 61-61.5GHz	N/A	10.08 dBm
Except fixed field disturbance sensors(indoor)	40.08 dBm	43.08 dBm
Except fixed field disturbance sensors(outdoor)	82 dBm	85 dBm
NOTE: For the applicable limit, see FCC 15.255 (b)		

Note: For outdoor device minus 2 dB for every dB that the antenna gain is less than 51 dBi.

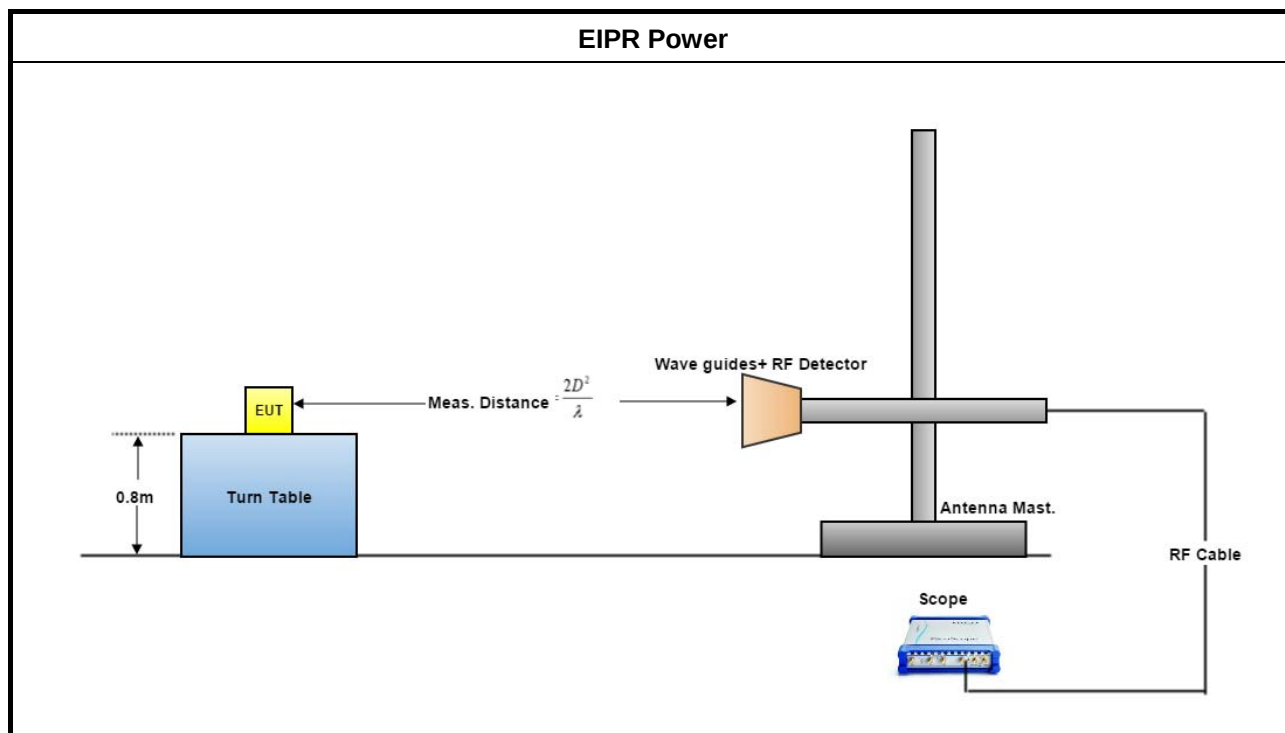
3.3.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.3.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013 clause 9.3 & 9.5.

3.3.4 Test Setup



**3.3.5 Test Result of EIRP Power**

Test Conditions	see ANSI C63.10, clause 5.11 & clause 9
Test Setup	see ANSI C63.10, clause 9.11
NOTE: If the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worst case combination to be used for the conformance testing.	

3.3.5.1 Test Result of EIRP Power

Temp	20.5℃					Humidity	32%				
Test Engineer	Owen Hsu					Test Distance	0.40 m				
Test Date	Dec. 21, 2015										
Test Results											
Channel Plan (GHz)	Test Freq. (GHz)	DSO (mV)		Power Measured (dBm)		E _{Meas} (dBuV/m)		EIRP (dBm)		EIRP Limit (dBm) (note 1)	
		Peak	AV	Peak	AV	Peak	AV	Peak	AV	Peak	AV
Channel 2 LRP: 60.16275-60.79725	60.16275	531	151	-6.29	-23.37	143.00	125.92	30.24	19.36	43.08	40.08
	60.48	569	224	-4.37	-20.5	144.92	128.79	32.16	22.23	43.08	40.08
	60.79725	543	224	-4.19	-20.36	145.15	128.98	32.39	22.41	43.08	40.08
Channel 2 HRP: 60.48	60.48	685	409	2.68	-12.92	151.97	136.37	39.21	30.60	43.08	40.08
Channel 3 LRP: 62.32275-62.95725	62.32275	525	153	-6.88	-23.06	142.71	126.53	29.96	19.97	43.08	40.08
	62.64	521	152	-6.92	-23.25	142.67	126.34	29.92	19.78	43.08	40.08
	62.95725	505	129	-8.18	-24.27	141.46	125.37	28.70	18.81	43.08	40.08
Channel 3 HRP: 62.64	62.64	665	393	2.02	-14.79	151.61	134.80	38.86	29.04	43.08	40.08
The measured power level is converted to EIRP using the Friis equation: For radiated emissions, calculate the field strength (E) in dBμV/meter. E = 126.8 – 20log(λ) + P - G where: E : is the field strength of the emission at the measurement distance, in dBμV/m P : is the power measured at the output of the test antenna, in dBm λ : is the wavelength of the emission under investigation [300/fMHz], in m G : is the gain of the test antenna, in dBi For radiated emissions, calculate the EIRP (dBm). If the measurement was performed in the far field, calculate the EIRP. EIRP = E-meas +20log(d-meas)-104.7 where: EIRP : is the equivalent isotopically radiated power, in dBm E-meas. : is the field strength of the emission at the measurement distance, in dBμV/m d-meas. : is the measurement distance, in m NOTE 1: For the applicable limit, see FCC 15.255 (b)											

3.4 Peak Conducted Power

3.4.1 Limit of Peak Conducted Power

Peak Conducted Power Limit	
6dBc Bandwidth	Peak Conducted Power (note 1)
> 100MHz	500mW
≤ 100MHz	500mW x (BW/100) (see note 2)
NOTE 1: For the applicable limit, see FCC 15.255(e)	
NOTE 2: BW= 6dB bandwidth (measured at RBW 100kHz)	

3.4.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.4.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 9.5

3.4.4 Test Result of Peak Conducted Power

Test Conditions	see ANSI C63.10, clause 5.11 & clause 9
Test Setup	see ANSI C63.10, clause 9.11
NOTE: If the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worst case combination to be used for the conformance testing.	



3.4.4.1 Peak Conducted Power

Temp	20.5℃			Humidity	32%		
Test Engineer	Owen Hsu			Test Date	Dec. 21, 2015		
Test Results							
Channel Plan (GHz)	Test Freq. (GHz)	EIRP (dBm)	Max. Ant. Gain	Peak Power (dBm) (note1)	Peak Power (mW)	6dBc BW (MHz) (note2)	Peak Power Limit (mW) (note3)
Channel 2 LRP: 60.16275-60.79725	60.16275	30.24	6	24.24	265.522	91.20	456.00
	60.48	32.16	6	26.16	413.144	91.20	456.00
	60.79725	32.39	6	26.39	435.156	91.20	456.00
Channel 2 HRP: 60.48	60.48	39.21	16	23.21	209.460	1744.00	8720.00
Channel 3 LRP: 62.32275-62.95725	62.32275	29.96	6	23.96	248.646	91.20	456.00
	62.64	29.92	6	23.92	246.366	90.80	454.00
	62.95725	28.70	6	22.70	186.195	91.20	456.00
Channel 3 HRP: 62.64	62.64	38.86	16	22.86	193.011	1760.00	8800.00
NOTE 1: Because EUT used for the integral antenna without temporary RF connector provided. Therefore peak conducted power is equal to EIRP power subtract the antenna gain.							
NOTE 2: For the 6dBc bandwidth, see test report clause 3.2.5.							
NOTE 3: For the applicable limit, see FCC 15.255(e)							
NOTE 5: For radiated emission measurements, calculate conducted transmitter output power P(cond)(dBm)							
P(cond) = EIRP - G(dBi)							
where:							
G(dBi) is gain of EUT antenna.							

3.5 Transmitter Spurious Emissions

3.5.1 Limit of Transmitter Spurious Emissions

Frequency Range	Limit
Radiated emissions below 40 GHz	FCC 15.209
Radiated emissions above 40 GHz – 200GHz	90 pW/cm ² @ 3 m (Equivalent EIRP 102 μW, -9.91dBm)

NOTE 1: For the applicable limit, see FCC 15.255(c)

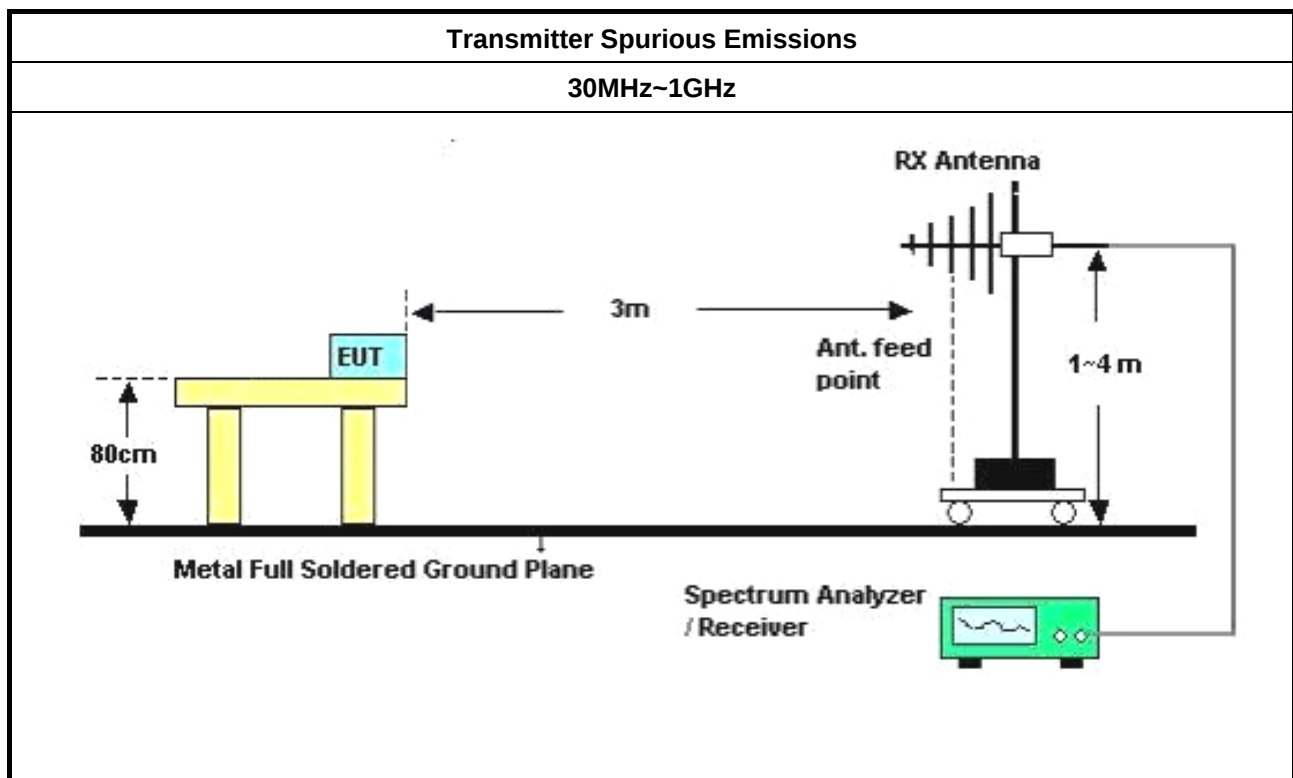
NOTE 2: Spurious emissions shall not exceed the level of the fundamental emission.

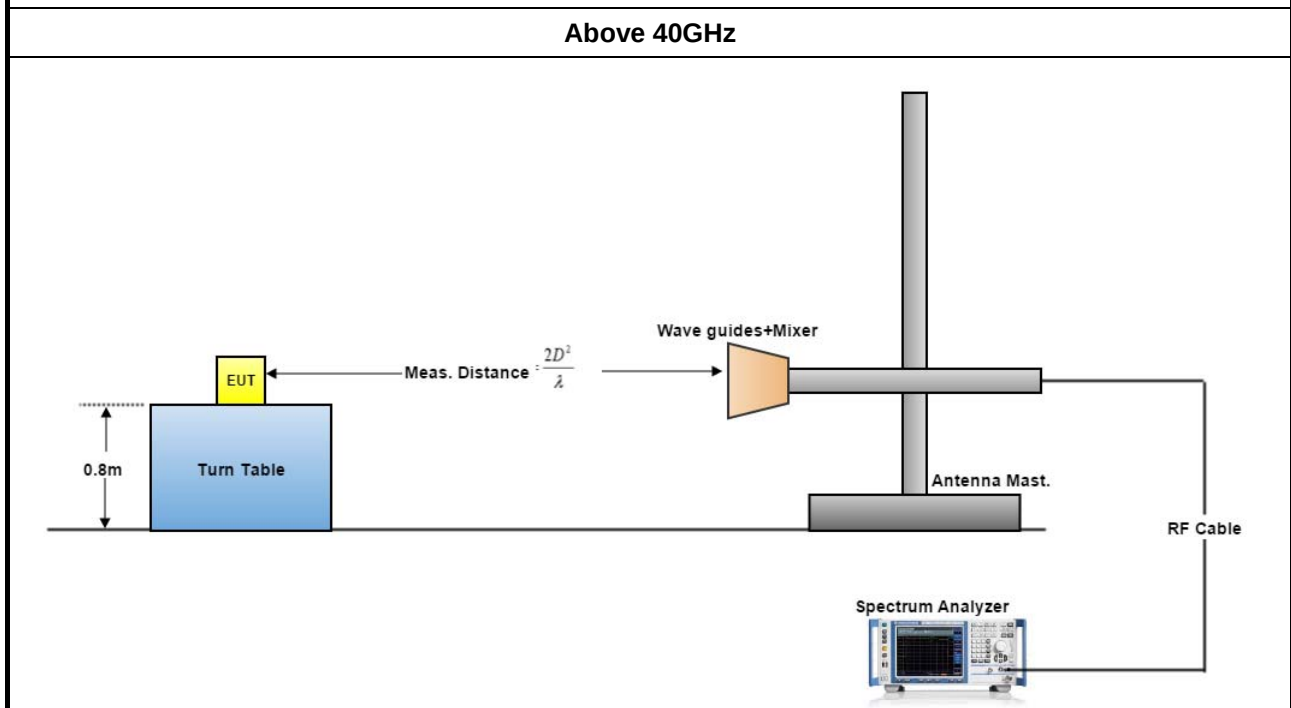
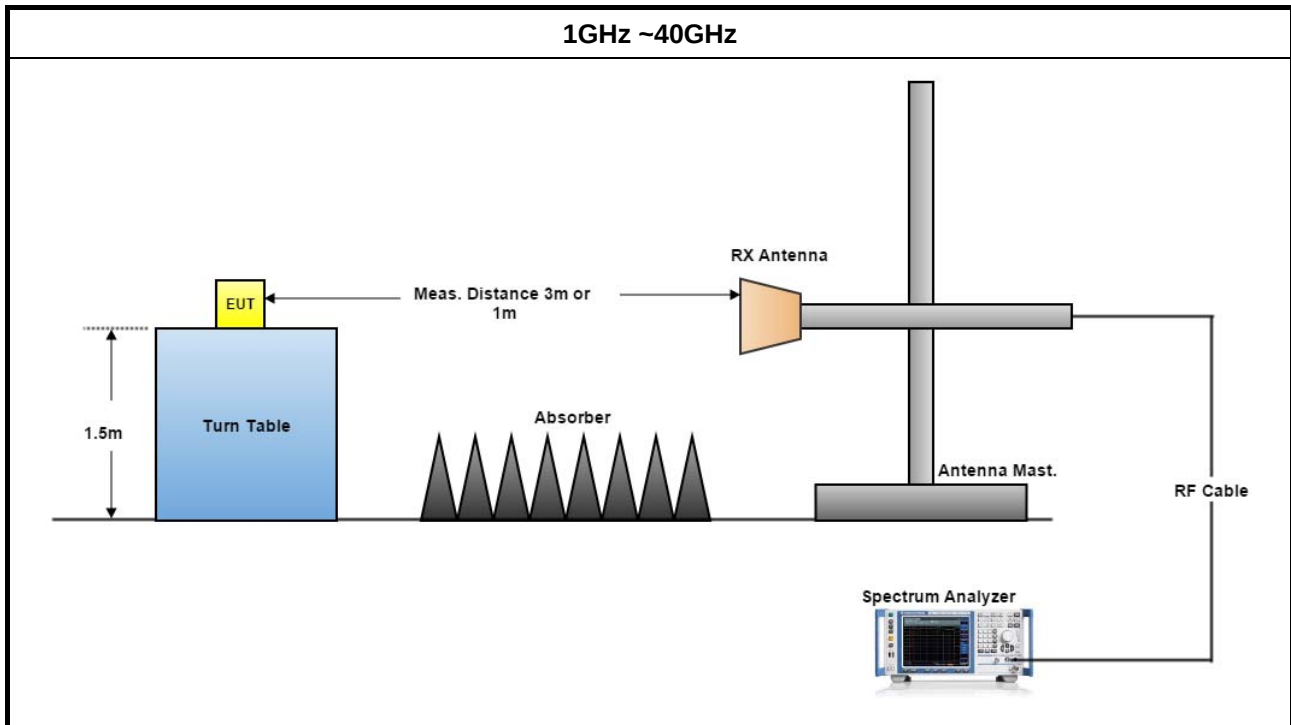
NOTE 3: publicly-accessible coordination channel, whose purpose is to coordinate operation between diverse transmitters with a view towards reducing the probability of interference throughout the 57-64 GHz band, are permitted in the 57-57.05 GHz band. The development of standards for this channel shall be performed pursuant to authorizations issued under part 5 of this chapter.

3.5.2 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 9.12

3.5.3 Test Setup





A measuring distance of at 3 m shall be used for measurements at frequencies up to 15 GHz. For frequencies above 15 GHz, any suitable measuring distance may be used. The measurement distance is chosen up to far field distance, depending on the test system noise floor for detecting spurious emission signals. Then above 15 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from spec. distance (3 m) to measurement distance. Distance extrapolation factor = $20 \log (\text{spec. distance [3 m]} / \text{measurement distance [N m]})$ (dB). The measurements described in ANSI C63.10, clause 7.8.6. If the emission cannot be detected at 1 m, reduce the RBW to increase system sensitivity. Note the value. If the emission still cannot be detected, move the horn closer to the EUT, noting the distance at which a measurement is made.



3.5.4 Test Result of Transmitter Spurious Emissions

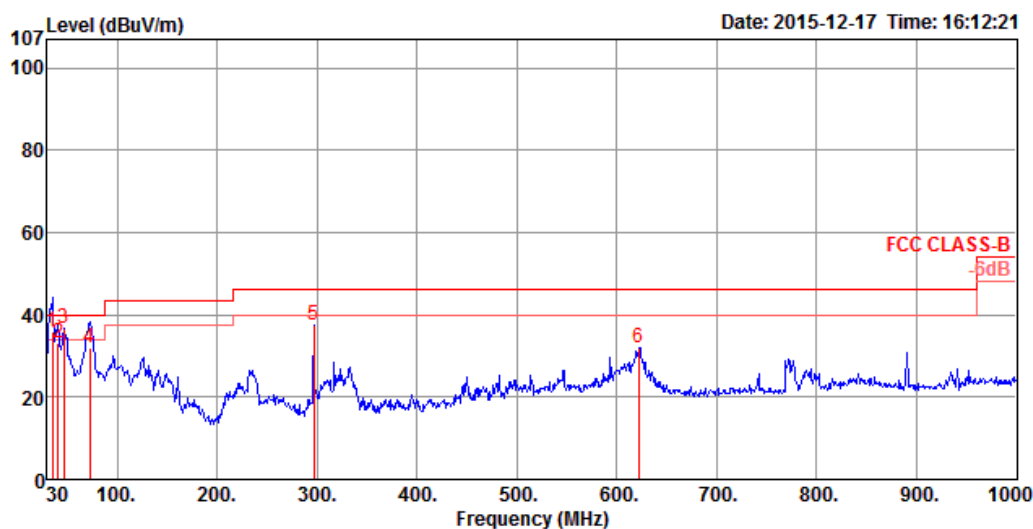
Test Conditions	see ANSI C63.10, clause 5.11 & clause 9
Test Setup	see ANSI C63.10, clause 9.12 ~ 9.13
NOTE: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes.	



3.5.4.1 Test Result of Transmitter Spurious Emissions

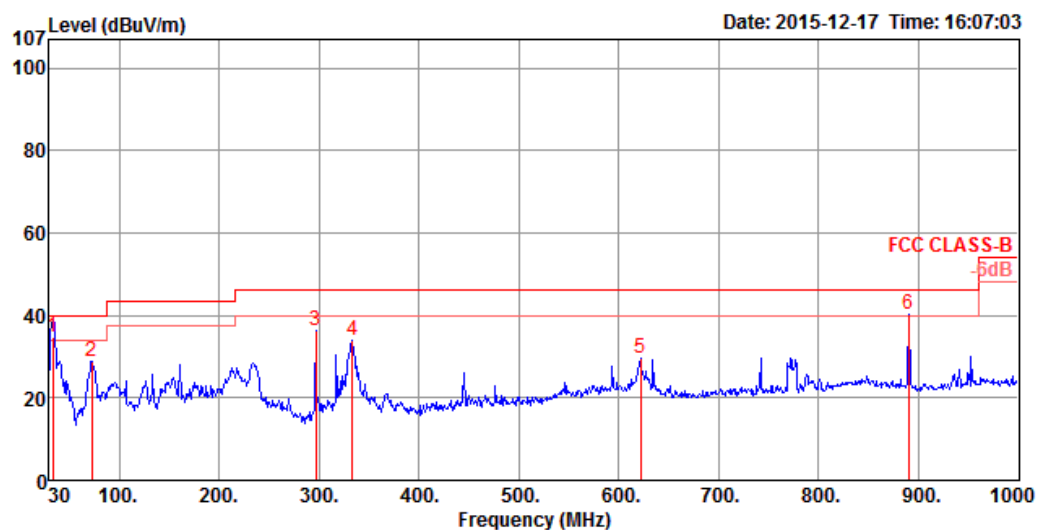
Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Distance	3 m
Test Range	30 MHz – 1000 MHz	Test Configuration	CTX

Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	Pol/Phase	deg	cm	
1	34.85	36.01	40.00	-3.99	50.67	0.81	32.64	17.17	VERTICAL	228	100	QP
2	40.67	33.11	40.00	-6.89	51.12	0.95	32.63	13.67	VERTICAL	252	100	QP
3	46.49	36.84	40.00	-3.16	57.98	0.95	32.63	10.54	VERTICAL	170	100	Peak
4	72.68	32.17	40.00	-7.83	56.60	1.16	32.60	7.01	VERTICAL	162	100	QP
5	296.75	37.49	46.00	-8.51	54.13	2.04	32.52	13.84	VERTICAL	246	100	Peak
6	621.70	32.04	46.00	-13.96	42.61	2.88	32.67	19.22	VERTICAL	264	150	Peak

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	Pol/Phase	deg	cm	
1	33.88	34.67	40.00	-5.33	48.81	0.81	32.64	17.69	HORIZONTAL	60	200	QP
2	72.68	28.76	40.00	-11.24	53.19	1.16	32.60	7.01	HORIZONTAL	260	150	Peak
3	296.75	36.23	46.00	-9.77	52.87	2.04	32.52	13.84	HORIZONTAL	216	100	Peak
4	333.61	34.11	46.00	-11.89	49.65	2.14	32.53	14.85	HORIZONTAL	258	100	Peak
5	621.70	29.42	46.00	-16.58	39.99	2.88	32.67	19.22	HORIZONTAL	174	200	Peak
6	890.39	40.26	46.00	-5.74	47.28	3.36	31.90	21.52	HORIZONTAL	205	100	Peak



Test Plan: Channel 2 LRP: 60.16275-60.79725

Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Freq. (GHz)	60.48
Test Date	Dec. 17, 2015		

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	1268.95	47.77	54.00	-6.23	55.06	3.83	36.09	24.97	VERTICAL	231	248	Average
2	1268.95	49.39	74.00	-24.61	56.68	3.83	36.09	24.97	VERTICAL	231	248	Peak
3	12005.00	45.49	54.00	-8.51	29.74	11.95	35.20	39.00	VERTICAL	163	175	Average
4	12005.00	55.54	74.00	-18.46	39.79	11.95	35.20	39.00	VERTICAL	163	175	Peak

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	1268.95	49.01	54.00	-4.99	56.30	3.83	36.09	24.97	HORIZONTAL	237	219	Average
2	1268.95	52.54	74.00	-21.46	59.83	3.83	36.09	24.97	HORIZONTAL	237	219	Peak
3	11995.00	44.45	54.00	-9.55	28.70	11.95	35.20	39.00	HORIZONTAL	162	176	Average
4	11998.18	58.69	74.00	-15.31	42.94	11.95	35.20	39.00	HORIZONTAL	162	176	Peak



Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Distance	1 m
Test Range	18 GHz – 40 GHz	Test Freq. (GHz)	60.48
Test Date	Dec. 17, 2015		

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	23919.34	43.62	63.54	-19.92	46.91	9.27	51.30	38.74	VERTICAL	216	154	Average
2	23919.34	52.88	83.54	-30.66	56.17	9.27	51.30	38.74	VERTICAL	216	154	Peak

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	23919.88	42.54	63.54	-21.00	45.83	9.27	51.30	38.74	HORIZONTAL	224	169	Average
2	23919.88	52.32	83.54	-31.22	55.61	9.27	51.30	38.74	HORIZONTAL	224	169	Peak

**Test Plan: Channel 3 LRP: 62.32275-62.95725**

Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Freq. (GHz)	62.64
Test Date	Dec. 17, 2015		

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	1268.14	49.04	74.00	-24.96	56.35	3.83	36.11	24.97	VERTICAL	227	239	Peak
2	1268.15	47.46	54.00	-6.54	54.77	3.83	36.11	24.97	VERTICAL	227	239	Average
3	11996.22	44.54	54.00	-9.46	28.79	11.95	35.20	39.00	VERTICAL	160	179	Average
4	12004.54	58.74	74.00	-15.26	42.99	11.95	35.20	39.00	VERTICAL	160	179	Peak

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	1268.15	51.62	74.00	-22.38	58.93	3.83	36.11	24.97	HORIZONTAL	214	226	Peak
2	1268.15	48.79	54.00	-5.21	56.10	3.83	36.11	24.97	HORIZONTAL	214	226	Average
3	11996.22	58.87	74.00	-15.13	43.12	11.95	35.20	39.00	HORIZONTAL	161	179	Peak
4	12000.36	45.61	54.00	-8.39	29.86	11.95	35.20	39.00	HORIZONTAL	161	179	Average



Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Distance	1 m
Test Range	18 GHz – 40 GHz	Test Freq. (GHz)	62.64
Test Date	Dec. 17, 2015		

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	24192.15	52.29	83.54	-31.25	55.39	9.33	51.23	38.80	VERTICAL	264	157	Peak
2	24192.16	43.44	63.54	-20.10	46.54	9.33	51.23	38.80	VERTICAL	264	157	Average

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	24192.16	43.08	63.54	-20.46	46.18	9.33	51.23	38.80	HORIZONTAL	198	164	Average
2	24192.16	52.09	83.54	-31.45	55.19	9.33	51.23	38.80	HORIZONTAL	198	164	Peak



Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Date	Dec. 21, 2015
Test Range	40GHz – 200GHz		

Test Plan: Channel 2 LRP: 60.16275-60.79725

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
60.48	23.6	1.00	40.16	-68.51
EIRP (dBm)	Specification Distance (m)	Power Density (pW/m²)	Limit (pW/cm²)	Test Result
-27.59	3	15.393	90.00	Complied

Test Plan: Channel 2 HRP: 60.48

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
60.48	23.6	1.00	40.52	-61.91
EIRP (dBm)	Specification Distance (m)	Power Density (pW/m²)	Limit (pW/cm²)	Test Result
-20.91	3	71.625	90.00	Complied

Test Plan: Channel 3 LRP: 62.32275-62.95725

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
62.64	23.6	1.00	41.60	-75.19
EIRP (dBm)	Specification Distance (m)	Power Density (pW/m²)	Limit (pW/cm²)	Test Result
-33.97	3	3.547	90.00	Complied

**Test Plan: Channel 3 HRP: 62.64**

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
62.64	23.6	1.00	42.00	-64.83
EIRP (dBm)	Specification Distance (m)	Power Density (pW/m^2)	Limit (pW/cm^2)	Test Result
-23.52	3	39.285	90.00	Complied

3.6 Frequency Stability

3.6.1 Limit of Frequency Stability

Frequency Stability	Limit
Refer as FCC 15.255(f) and ANSI C63.10-2013, clause 9.14	within the frequency bands
Note: These measurements shall also be performed at normal and extreme test conditions.	

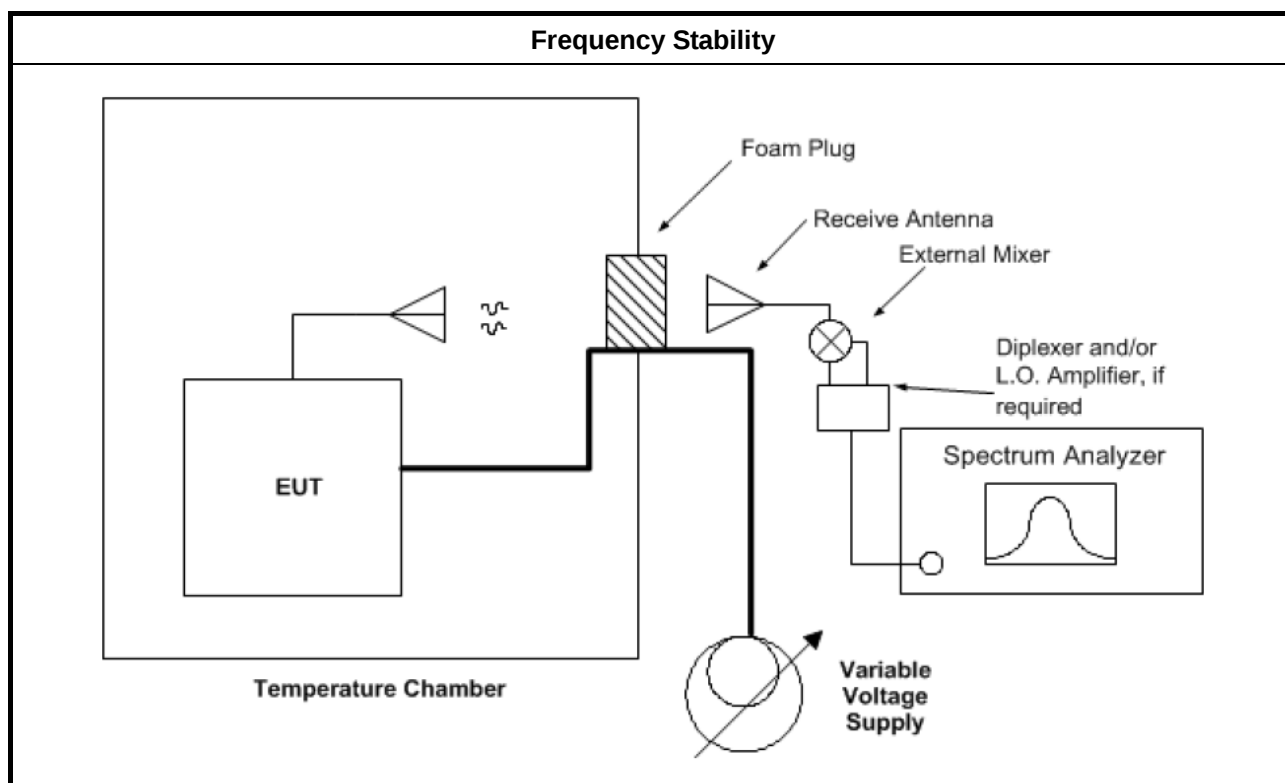
3.6.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.6.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clauses 9.14.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Test Conditions	see ANSI C63.10, clause 5.11 & clause 9
Test Setup	see ANSI C63.10, clause 9.14
NOTE: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes.	

3.6.5.1 Frequency Stability with Respect to Ambient Temperature

Frequency Stability with Respect to Ambient Temperature			
Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Date	Dec. 21, 2015
Test Results			
Test Temperature (°C)	Measured Frequency (MHz)	Delta Frequency (kHz)	Limit (±kHz)
-20	60463.964	-36	within band
-10	60463.978	-22	within band
0	60463.986	-14	within band
10	60463.990	-10	within band
20	60464.000	Reference	within band
30	60464.012	12	within band
40	60464.026	26	within band
50	60464.048	36	within band
NOTE:			
1. For the applicable limit, see FCC 15.255(f).			
2. The manufacturer's specified temperature range of -20 to 50°C.			

**3.6.5.2 Frequency Stability When Varying Supply Voltage**

Frequency Stability When Varying Supply Voltage			
Temp	20.5°C	Humidity	32%
Test Engineer	Owen Hsu	Test Date	Dec. 21, 2015
Test Results			
Test Voltage: (Vac)	Measured Frequency (MHz)	Delta Frequency (kHz)	Limit (±kHz)
102	60464.002	-16	within band
120	60464.018	Reference	within band
138	60464.038	20	within band
NOTE: For the applicable limit, see FCC 15.255(f).			

3.7 Operation Restriction and Group Installation

3.7.1 Limit of Operation Restriction and Group Installation

Item	Limit
Operation Restriction	Operation is not permitted for the following products: • Equipment used on aircraft or satellites. (Refer as FCC 15.255 (a)) • Field disturbance sensors, including vehicle radar systems, unless the field disturbance sensors are employed for fixed operation. (Refer as FCC 15.255 (a))
Group Installation	Operation is not permitted for the following products: • External phase-locking (Refer as FCC 15.255 (h))

3.7.2 Result of Operation Restriction

Manufacturer declares that EUT will not be used on aircraft or satellites. Then user manual will include a statement to caution EUT is not permitted for use on aircraft or satellites. EUT is a wireless video area network (WVAN) for the connection of consumer electronic (CE) audio and video devices.

3.7.3 Result of Group Installation

The frequency, amplitude and phase of the transmit signal are set within the EUT. There are no external phase-locking inputs or any other means of combining two or more units together to realize a beam-forming array.



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 16, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 25, 2015	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015*	Radiation (03CH01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Feb.10, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Mixer	OML	M19HW/A	U91113-1	40 ~ 60 GHz	Sep. 09, 2015*	Radiation (03CH01-CB)
Mixer	OML	M15HW/A	V91113-1	50 ~ 75 GHz	Sep. 14, 2015*	Radiation (03CH01-CB)
Mixer	OML	M12HW/A	E91113-1	60 ~ 90 GHz	Sep. 17, 2015*	Radiation (03CH01-CB)
Mixer	OML	M08HW/A	F91113-1	90 ~ 140 GHz	Sep. 21, 2015*	Radiation (03CH01-CB)
Mixer	OML	M05HW/A	G91113-1	140 ~ 220 GHz	Sep. 24, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO19R	U91113-A	40 ~ 60 GHz	Sep. 09, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO15R	V91113-A	50 ~ 75 GHz	Sep. 14, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO12R	E91113-A	60 ~ 90 GHz	Sep. 17, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO08R	F91113-A	90 ~ 140 GHz	Sep. 21, 2015*	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	HO05R	G91113-A	140 ~ 220 GHz	Sep. 24, 2015*	Radiation (03CH01-CB)
Pico Scope	Pico	Pico Scope 6402C	CX372/002	N/A	Jul. 06, 2015	Radiation (03CH01-CB)
RF Detector	millitech	DET-15-RPFW0	38	50 ~ 75 GHz	Oct. 31, 2015*	Radiation (03CH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.

5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Radiated Emission (40GHz ~ 220GHz)	4.7 dB	Confidence levels of 95%
Temperature	0.7°C	Confidence levels of 95%