

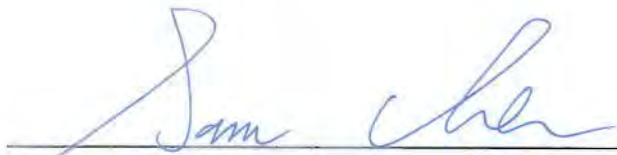


# RADIO TEST REPORT

**FCC ID** : W2Z-01000013  
**Equipment** : HDMI wireless 60G Extender  
**Brand Name** : FUJIFILM Corporation  
**Model Name** : HDV-W561 RX  
**Applicant** : FUJIFILM Corporation  
7-3, Akasaka 9-chome, Minato-ku, Tokyo 107-0052,  
Japan  
**Manufacturer** : Shenzhen HDCVT Technology Co.,Ltd  
Floor 7,Building 5 ,Lihe industrial Park SongBai  
Rd ,Nanshan District,Shenzhen ,GuangDong China  
**Standard** : 47 CFR FCC Part 15.255

The product was received on Feb. 23, 2022, and testing was started from Feb. 25, 2022 and completed on Mar. 07, 2022. We, Sporton International Inc. Hsinchu Laboratory, 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 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.

  
Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**  
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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### Appendix A. Test Photos

#### Photographs of EUT v01





### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Conducted Emissions	PASS	-
3.2	15.255(e)	Occupied Bandwidth	PASS	-
3.3	15.255(c)	EIRP Power	PASS	-
3.4	15.255(c)	Peak Conducted Power	PASS	-
3.5	15.255(d)	Transmitter Spurious Emissions	PASS	-
3.6	15.255(f)	Frequency Stability	PASS	-
3.7	15.255(a),(h)	Operation Restriction and Group Installation	PASS	-

**Declaration of Conformity:**

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: **Sam Chen**

Report Producer: **Wendy Pan**



# 1 General Description

## 1.1 Information

### 1.1.1 The Channel Plan(s)

Frequency Range	57-71 GHz
<b>The Channel Plan(s)</b>	
Low-rate PHY (LRP) Band	Channel 2 LRP: 60.16-60.80 GHz Channel 3 LRP: 62.32-62.96 GHz
LRP Channel List	Channel 2 LRP: 60.16-60.80 GHz: Channel 0: 60.16275GHz Channel 1: 60.62138GHz Channel 2: 60.48000GHz Channel 3: 60.63863GHz Channel 4: 60.79725GHz Channel 3 LRP: 62.32-62.96 GHz: Channel 0: 62.32275GHz Channel 1: 62.48138GHz Channel 2: 62.64000GHz Channel 3: 62.79863GHz Channel 4: 62.95725GHz

### 1.1.2 Modulation

<b>Modulation</b>
The LRP modulation is BPSK.



1.1.3 Antenna Information

Antenna Information	
<input type="checkbox"/> Equipment placed on the market without antennas	
<input checked="" type="checkbox"/> Integral antenna	
Integral antenna gain	18 dBi for LRP
	<input type="checkbox"/> Temp.orary RF connector provided
	<input checked="" type="checkbox"/> No temporary RF connector provided
<input type="checkbox"/> External antenna (dedicated antennas)	
	<input type="checkbox"/> Single power level with corresponding antenna(s)
	<input type="checkbox"/> Multiple power settings and corresponding antenna(s)

Note: The above information was declared by manufacturer.

1.1.4 Power Levels

Worst Power Levels for LRP			
Applicable power levels	<input type="checkbox"/> Conducted <input checked="" type="checkbox"/> EIRP		
Frequency (GHz)	Highest (P <sub>high</sub> ):		
	Mode	AV Power (dBm)	Peak Power (dBm)
60.79725	BPSK	14.90	22.10

1.1.5 Operating Conditions

Operating Conditions	
<input checked="" type="checkbox"/> -20 °C to +50 °C	
<input type="checkbox"/> 0 °C to +40 °C	
<input type="checkbox"/> Other:	
EUT Power Type	From adapter or host system
Test Software Version	SWAM3 (1.0.60255.2018-0403_05-45-23)
Supply Voltage	<input checked="" type="checkbox"/> AC      State AC voltage    120      V
Supply Voltage	<input type="checkbox"/> DC      State DC voltage      V

**1.1.6 Equipment Use Condition**

Equipment Use Condition	
<input type="checkbox"/>	Fixed field disturbance sensors at 61-61.5GHz
<input type="checkbox"/>	Except fixed field disturbance sensors at 61-61.5GHz
<input checked="" type="checkbox"/>	Except fixed field disturbance sensors

**1.1.7 User Condition**

Intended Operation	
<input checked="" type="checkbox"/>	Indoor
<input type="checkbox"/>	Outdoor (except outdoor fixed Point to Point)
<input type="checkbox"/>	Outdoor fixed Point to Point

Note: The above information was declared by manufacturer.

**1.1.8 Duty Cycle**

Duty Cycle	Duty Cycle Factor (dB)
25.3	5.968794788

**1.1.9 EUT Label Information**



Note: The above information was declared by manufacturer.



## 1.2 Applicable 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"

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 414788 D01 v01r01 Testing Location

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065      FAX: 886-3-656-9085
Test site Designation No. TW3787 with FCC.	
Conformity Assessment Body Identifier (CABID) TW3787 with ISED.	

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
Radiated (For Frequency Stability)	TH03-CB	Eddie Weng	18.7~20.4 / 63~65	Mar. 01, 2022 ~ Mar. 02, 2022
Radiated (Transmitter Spurious Emissions below 1GHz)	03CH05-CB	Brian Sun	21.5-22.3 / 60-62	Mar. 01, 2022 ~ Mar. 07, 2022
Radiated (For other test items)	03CH01-CB	Brian Sun	21.9-22.7 / 62-64	Mar. 01, 2022 ~ Mar. 07, 2022
AC Conduction	CO01-CB	Joe Chu	20~21 / 50~51	Feb. 25, 2022





## 2 Test Configuration of Equipment under Test

### 2.1 Parameters of Test Software Setting

Channel Plan (GHz)	Low Channel (GHz)	High Channel (GHz)
Channel 2 LRP: 60.16-60.80	60.16275	60.79725
Software Setting	Default	Default
Channel 3 LRP: 62.32-62.96	-	62.95725
Software Setting	-	Default



## 2.2 Conformance Tests and Related Test Frequencies

Test Item	Test Frequencies (GHz) Channel Plan 2&3
	LRP
AC Power Conducted Emissions Test Voltage: 120Vac / 60Hz	Random Frequency
Occupied Bandwidth	60.16275 / 60.79725 / 62.95725
EIRP Power	60.16275 / 60.79725 / 62.95725
Peak Conducted Power	60.16275 / 60.79725 / 62.95725
Transmitter Spurious Emissions (below 1 GHz)	60.79725
Transmitter Spurious Emissions (1 GHz-40 GHz)	60.79725
Transmitter Spurious Emissions (above 40 GHz)	60.16275 / 60.79725 / 62.95725
Frequency Stability	60.79725

Note: The Adapter is for measurement only, would not be marketed.

Adapter information as below:

Power	Brand Holder	Model
Adapter	SHENZHEN KEYU POWER SUPPLY TECHNOLOGY CO.,LTD	KA06E-0501000US

### AC Power Conducted Emissions

Mode 1: Normal Link - EUT - Powered from adapter

Mode 2: Normal Link - EUT - Powered from host system

For operating mode 1 is the worst case and it was record in this test report.

### Transmitter Spurious Emissions (below 1 GHz)

The EUT was performed at X axis, Y axis and Z axis position for Transmitter Spurious Emissions (above 40 GHz) test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.

Mode 1: CTX - EUT in Y axis - Powered from adapter

Mode 2: CTX - EUT in Y axis - Powered from host system

For operating mode 2 is the worst case and it was record in this test report.

### Transmitter Spurious Emissions (1 GHz-40 GHz)

1. The EUT was performed at X axis, Y axis and Z axis position for Transmitter Spurious Emissions (above 40 GHz) test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.

2. 60.79725GHz was maximum power for EIRP Power test, thus the measurement for Transmitter Spurious Emissions (1-40GHz) will follow this same test configuration.

Mode 1: CTX - EUT in Y axis

### Transmitter Spurious Emissions (above 40 GHz)

The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.

Mode 1: CTX - EUT in Y axis



## 2.3 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.

## 2.4 Accessories

N/A

## 2.5 Support Equipment

For AC Power Conducted Emissions test

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	TV	ASUS	VP28U	N/A
B	DVD Player	LG	DV298H	N/A
C	Device	FUJIFILM Corporation	HDV-W561 TX	W2Z-01000012
D	Base	N/A	N/A	N/A
E	Adapter	SHENZHEN KEYU POWER SUPPLY TECHNOLOGY CO.,LTD	KA06E-0501000US	N/A

For Other tests:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Device	FUJIFILM Corporation	HDV-W561 TX	W2Z-01000012
C	Base	N/A	N/A	N/A



## 2.6 Far Field Boundary Calculations

The far-field boundary is given as:

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

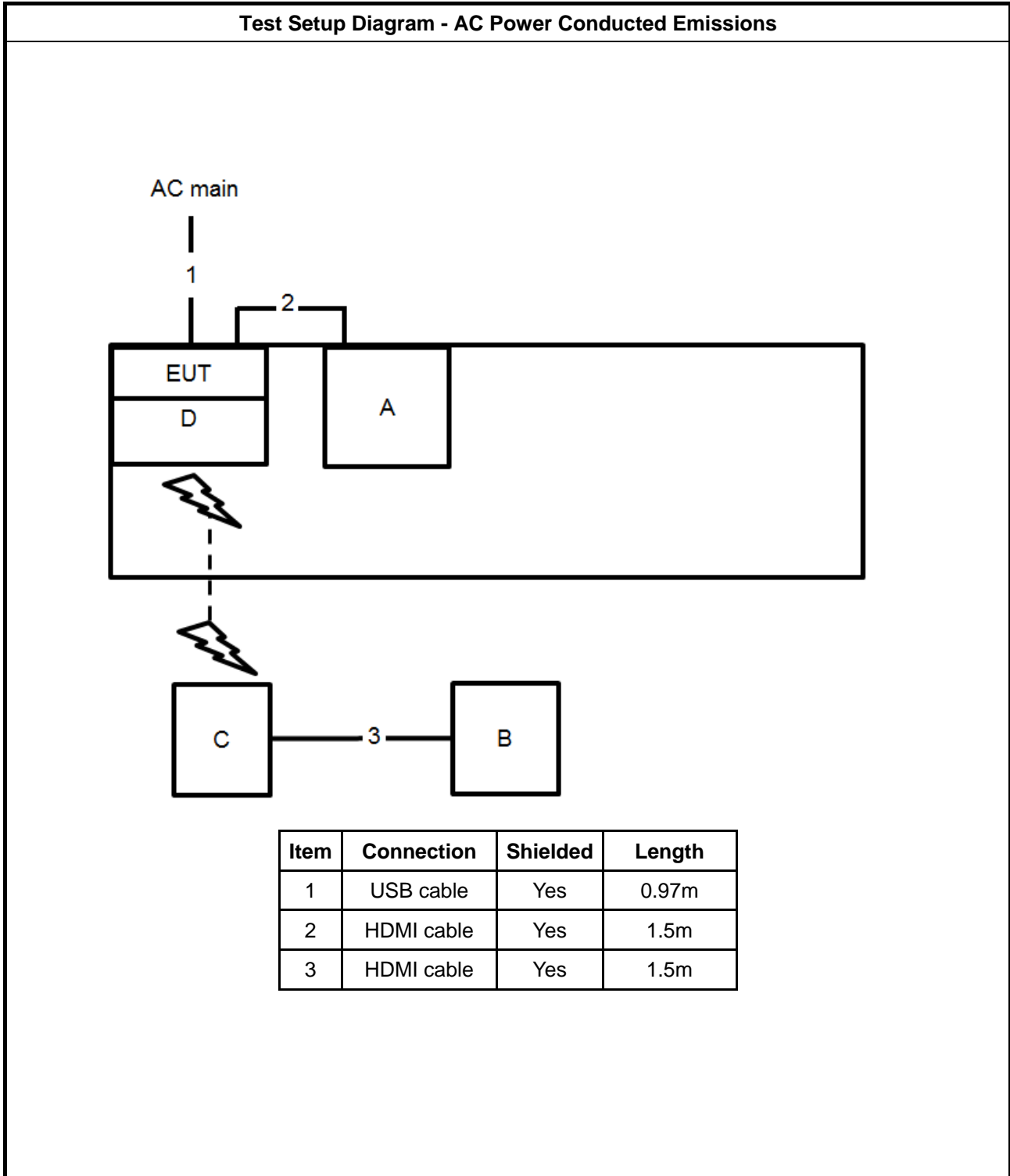
where:

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

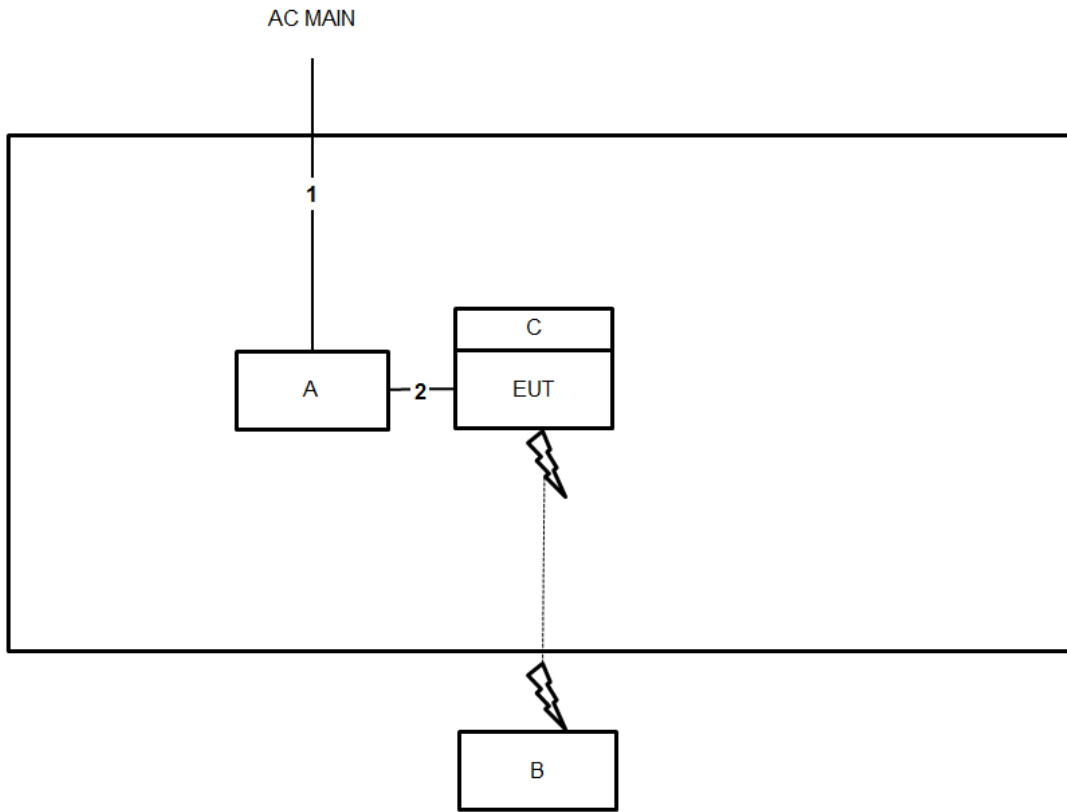
$\lambda$  = wavelength in meters

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
60.79725	0.02	0.0049344	0.162	16.21
62.95725	0.02	0.0047651	0.168	16.79

## 2.7 Test Setup Diagram



**Test Setup Diagram - Transmitter Spurious Emissions**



Item	Connection	Shielded	Length
1	Power Cable	No	1.8m
2	USB Cable	Yes	0.97m



### 3 Transmitter Test Result

#### 3.1 AC Power Conducted Emissions

##### 3.1.1 Limit of AC Power Conducted Emissions

AC Power Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note: \* Decreases with the logarithm of the frequency.

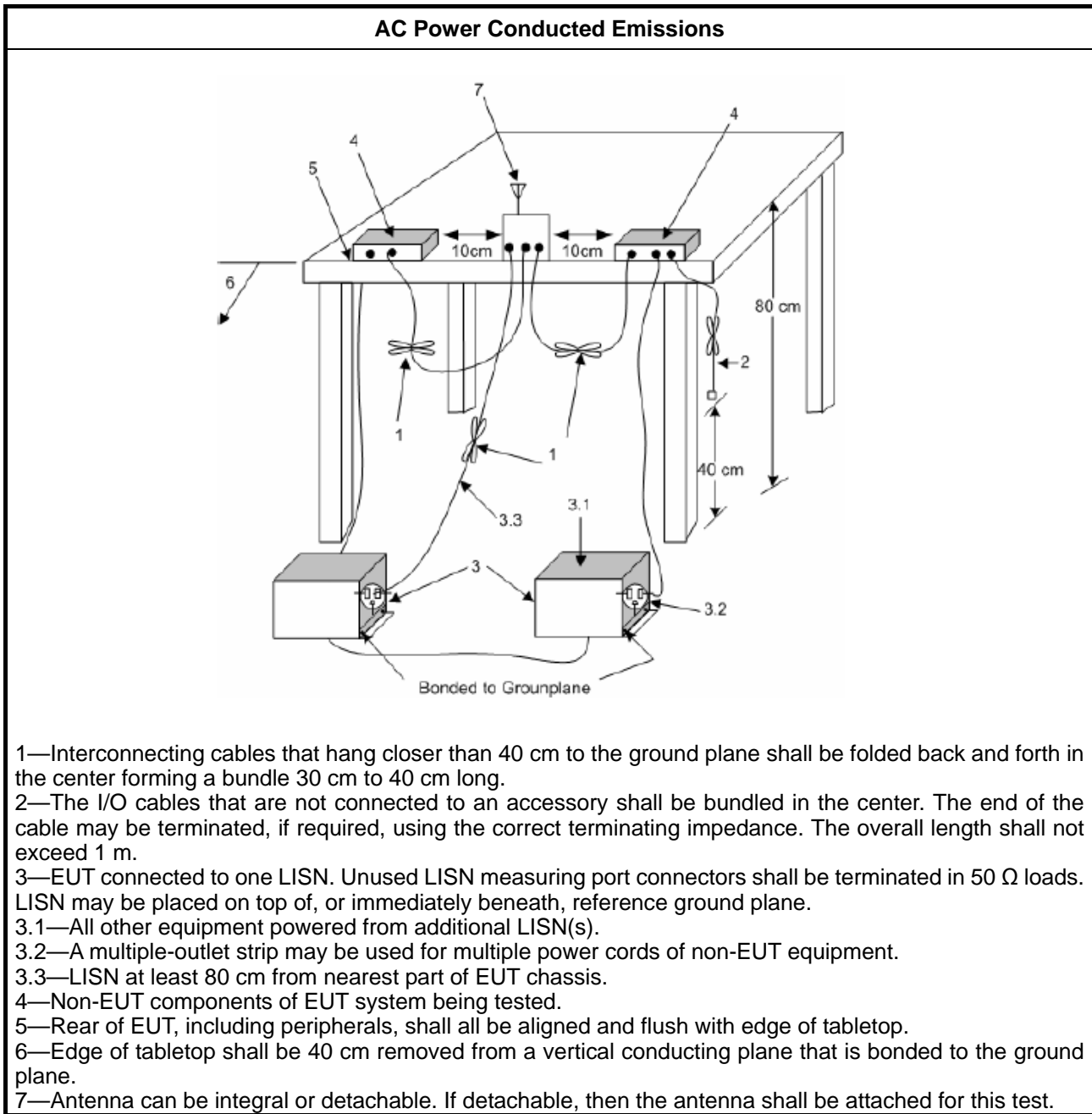
##### 3.1.2 Measuring Instruments

Refer a measuring instruments list in this test report.

##### 3.1.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 6.2.

### 3.1.4 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level





**3.1.6 Test Result of AC Power Conducted Emissions**

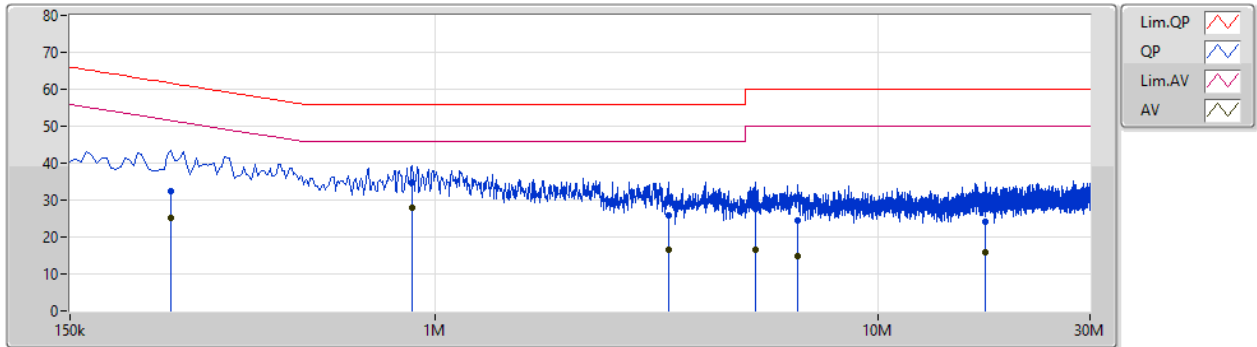
<b>Test Conditions</b>	see ANSI C63.10, clause 5.11
<b>Test Setup</b>	see ANSI C63.10, clause 6.2.3
<p>NOTE 1: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel 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.</p> <p>NOTE 2: "&gt;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.</p>	



Phase	Line	Configuration	Normal Link
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**Mode 1**

25/02/2022



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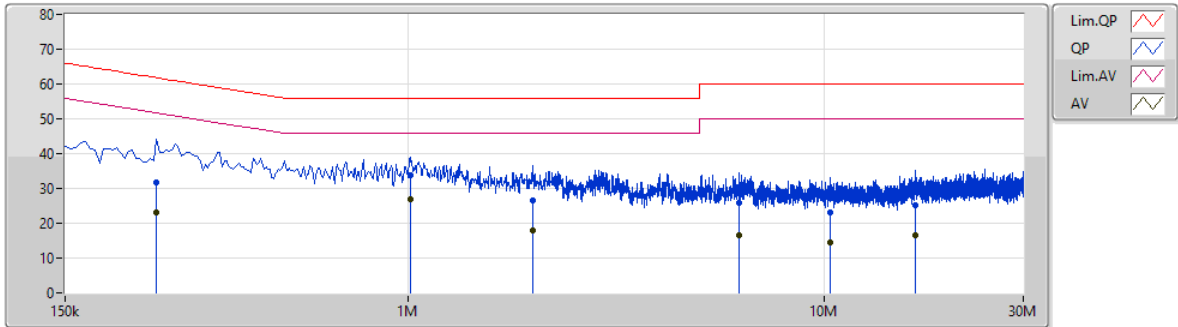
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	253.5k	32.58	61.64	-29.06	9.95	Line	-	22.63	0.04	0.02	9.89
AV	253.5k	25.33	51.64	-26.31	9.95	Line	-	15.38	0.04	0.02	9.89
QP	888k	34.66	56.00	-21.34	9.97	Line	-	24.69	0.06	0.02	9.89
AV	888k	27.92	46.00	-18.08	9.97	Line	"Worst"	17.95	0.06	0.02	9.89
QP	3.368M	25.94	56.00	-30.06	10.08	Line	-	15.86	0.12	0.07	9.89
AV	3.368M	16.51	46.00	-29.49	10.08	Line	-	6.43	0.12	0.07	9.89
QP	5.262M	27.49	60.00	-32.51	10.13	Line	-	17.36	0.16	0.07	9.90
AV	5.262M	16.55	50.00	-33.45	10.13	Line	-	6.42	0.16	0.07	9.90
QP	6.554M	24.35	60.00	-35.65	10.15	Line	-	14.20	0.18	0.07	9.90
AV	6.554M	14.83	50.00	-35.17	10.15	Line	-	4.68	0.18	0.07	9.90
QP	17.435M	24.01	60.00	-35.99	10.37	Line	-	13.64	0.30	0.12	9.95
AV	17.435M	15.85	50.00	-34.15	10.37	Line	-	5.48	0.30	0.12	9.95



Phase	Neutral	Configuration	Normal Link
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**Mode 1**

25/02/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)				
QP	249k	31.79	61.79	-30.00	9.94	Neutral	-	21.85	0.03	0.02	9.89				
AV	249k	22.95	51.79	-28.84	9.94	Neutral	-	13.01	0.03	0.02	9.89				
QP	1.01M	33.81	56.00	-22.19	9.96	Neutral	-	23.85	0.05	0.02	9.89				
AV	1.01M	26.94	46.00	-19.06	9.96	Neutral	"Worst"	16.98	0.05	0.02	9.89				
QP	1.986M	26.42	56.00	-29.58	10.01	Neutral	-	16.41	0.07	0.05	9.89				
AV	1.986M	17.86	46.00	-28.14	10.01	Neutral	-	7.85	0.07	0.05	9.89				
QP	6.243M	25.95	60.00	-34.05	10.12	Neutral	-	15.83	0.15	0.07	9.90				
AV	6.243M	16.40	50.00	-33.60	10.12	Neutral	-	6.28	0.15	0.07	9.90				
QP	10.325M	23.26	60.00	-36.74	10.18	Neutral	-	13.08	0.20	0.07	9.91				
AV	10.325M	14.44	50.00	-35.56	10.18	Neutral	-	4.26	0.20	0.07	9.91				
QP	16.53M	25.25	60.00	-34.75	10.33	Neutral	-	14.92	0.27	0.11	9.95				
AV	16.53M	16.59	50.00	-33.41	10.33	Neutral	-	6.26	0.27	0.11	9.95				



### 3.2 Occupied Bandwidth

#### 3.2.1 Limit of Occupied Bandwidth

<b>6dBc Bandwidth</b> (see Note 1)	None
<b>99% Occupied Bandwidth</b> (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.

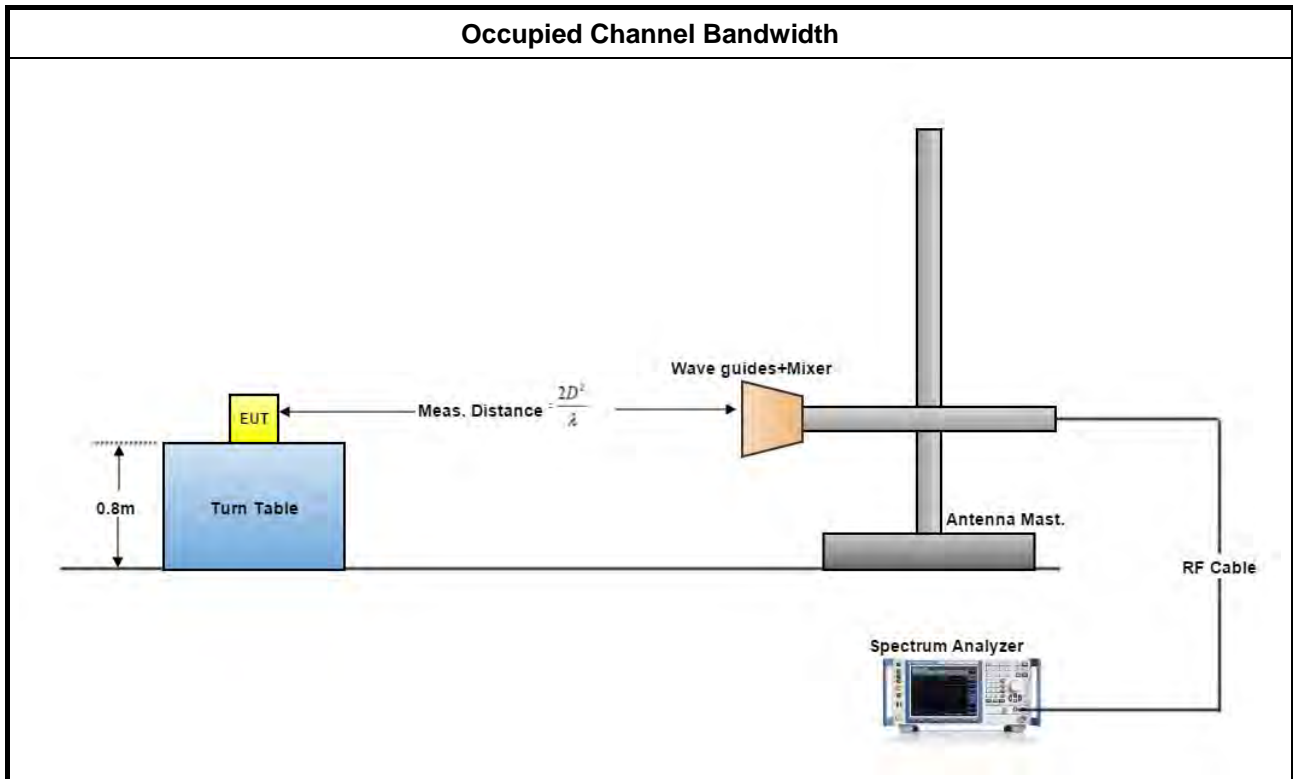
#### 3.2.2 Measuring Instruments

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





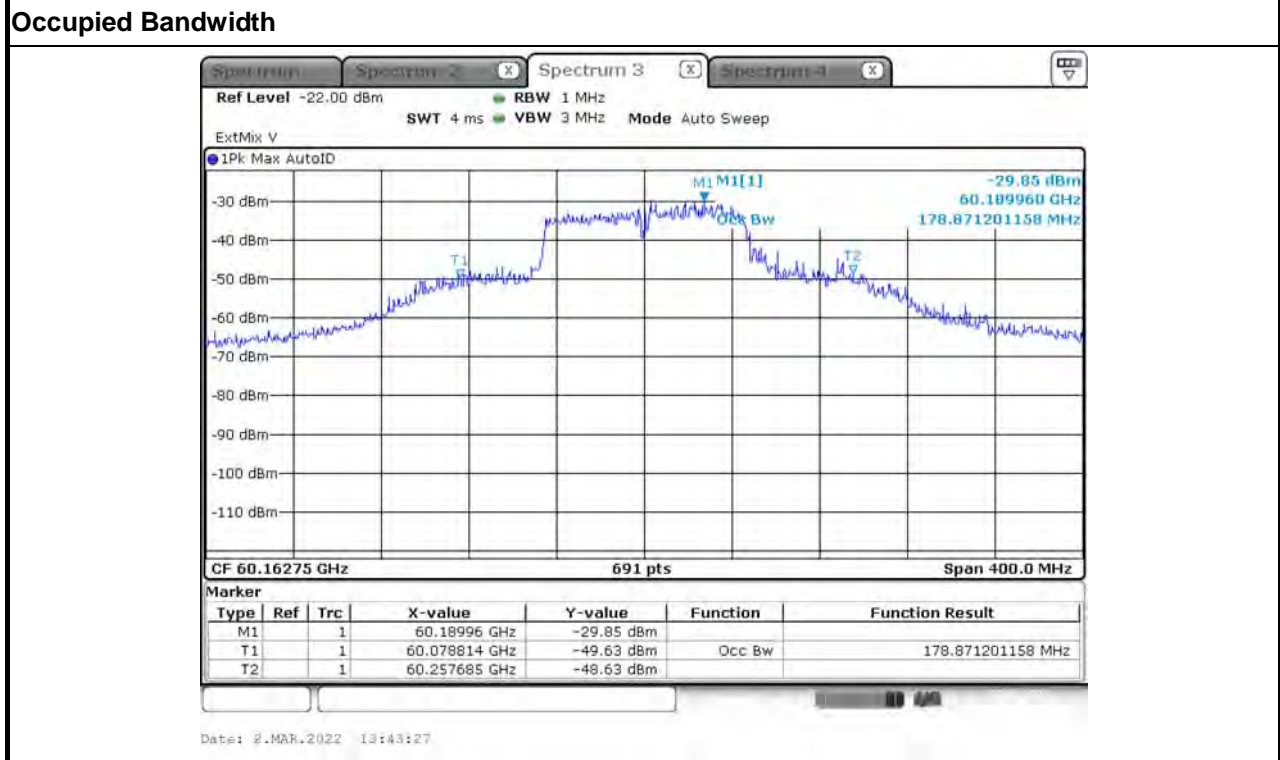
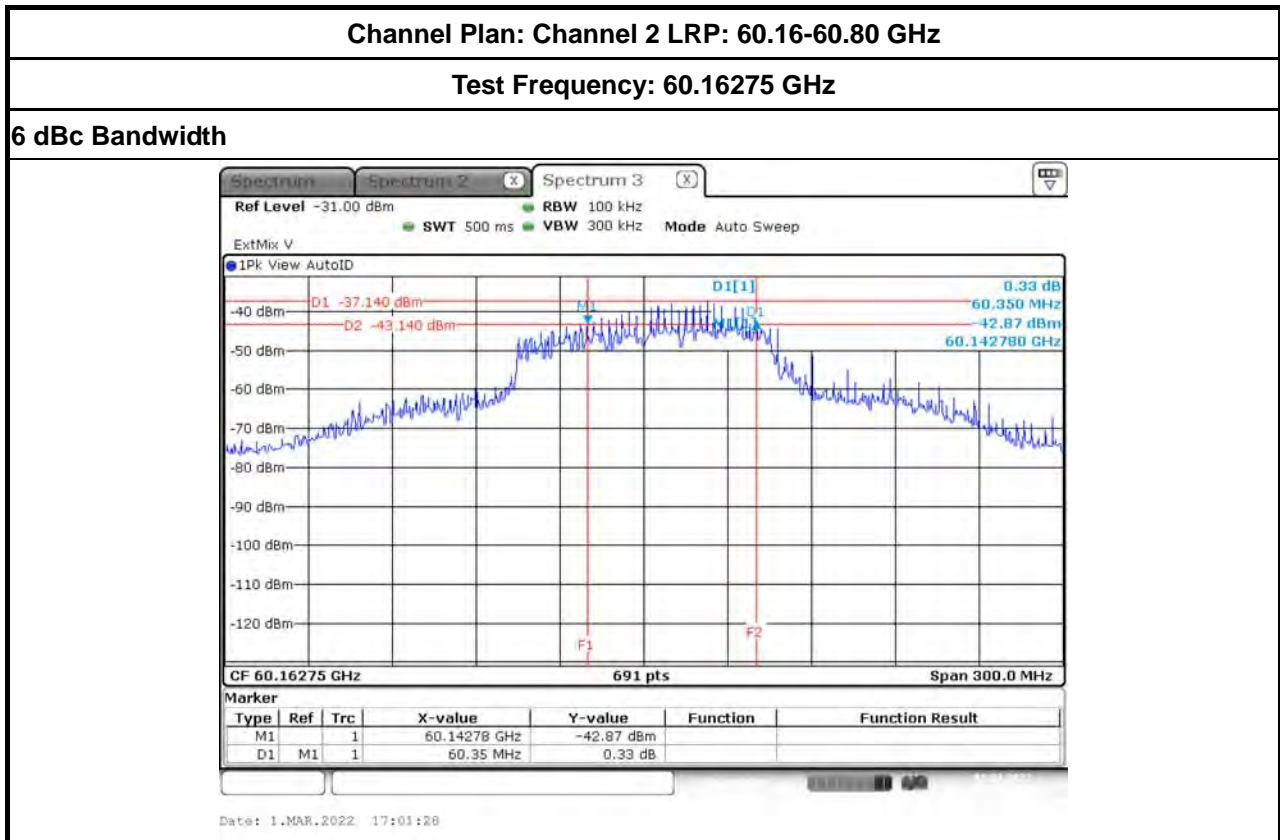
**3.2.5 Test Result of Occupied Bandwidth**

<b>Test Conditions</b>	see ANSI C63.10, clause 5.11
<b>Test Setup</b>	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.	

<b>Test Results</b>				
<b>Channel Plan (GHz)</b>	<b>Test Freq. (GHz)</b>	<b>6 dBc Bandwidth (MHz)</b>	<b>99% Occupied Bandwidth (MHz)</b>	<b>Limit (MHz)</b>
Channel 2 LRP: 60.16-60.80	60.16275	60.35	178.87	N/A
	60.79725	82.05	125.61	N/A
Channel 3 LRP: 62.32-62.96	62.95725	62.95	140.08	N/A



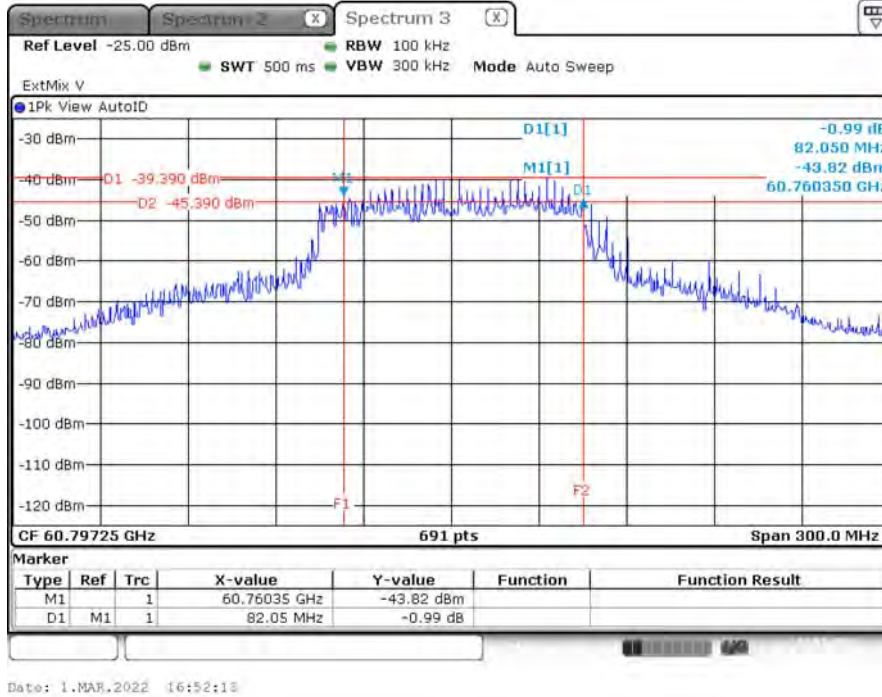
**3.2.5.1 Bandwidth Plots**





**Test Frequency: 60.79725 GHz**

**6 dBc Bandwidth**



**Occupied Bandwidth**



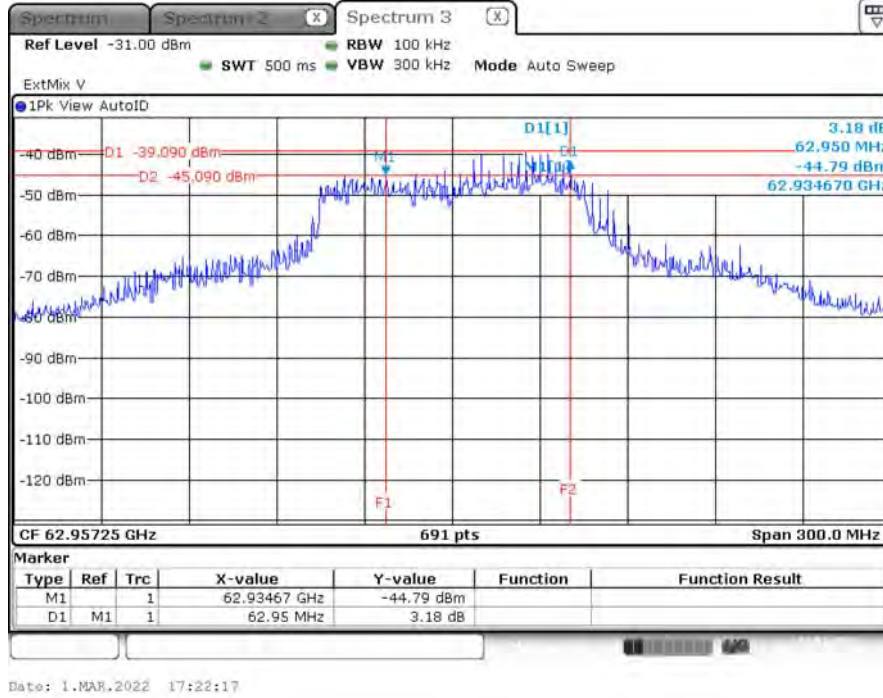




**Channel Plan: Channel 3 LRP: 62.32-62.96 GHz**

**Test Frequency: 62.95725 GHz**

**6 dBc Bandwidth**



**Occupied Bandwidth**





### 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 within the frequency band 61-61.5GHz	40 dBm	43 dBm
Fixed field disturbance sensors at outside of the band 61-61.5GHz	10 dBm	13 dBm
Except fixed field disturbance sensors at 61-61.5GHz	N/A	10 dBm
Except outdoor fixed Point to Point	40 dBm	43 dBm
Outdoor fixed Point to Point	82 dBm	85 dBm

Note: For fixed point-to-point transmitters located outdoors, the average power of any emission shall not exceed 82 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi. The peak power of any emission shall not exceed 85 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi.

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

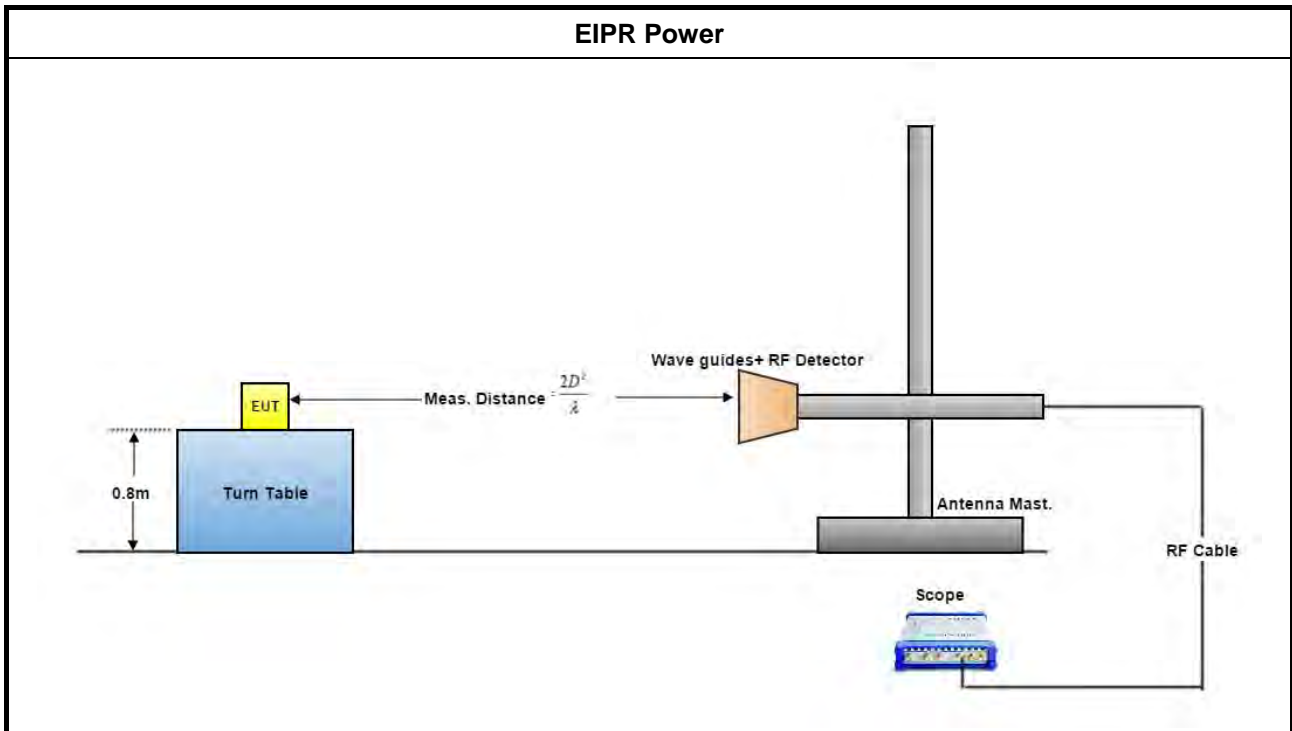
#### 3.3.2 Measuring Instruments

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

<b>Test Conditions</b>	see ANSI C63.10, clause 5.11 & clause 9
<b>Test Setup</b>	see ANSI C63.10, clause 9.11
<p>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.</p>	



**3.3.5.1 Test Result of EIRP Power**

<b>Test Distance</b>	0.50m											
<b>Test Results</b>												
Channel Plan (GHz)	Test Freq. (GHz)	Rx Gain (dBi)	DSO (mV)		Power Measured (dBm)		E <sub>Meas</sub> (dBuV/m)		EIRP (dBm)		EIRP Limit (dBm) (note 1)	
			Peak	AV	Peak	AV	Peak	AV	Peak	AV	Peak	AV
Channel 2 LRP: 60.16-60.80	60.16275	23.6	20.07	5.03	-16.54	-22.74	132.70	126.50	21.88	15.68	43	40
	60.79725	23.6	20.73	4.24	-16.41	-23.61	132.93	125.73	22.10	14.90	43	40
Channel 3 LRP: 62.32-62.96	62.95725	23.6	14.57	3.09	-18.00	-25.14	131.64	124.50	20.82	13.68	43	40

The measured power level is converted to EIRP using the Friis equation:  
 For radiated emissions, calculate the field strength (E) in dBµV/meter.  

$$E = 126.8 - 20\log(\lambda) + P - G$$
 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.  

$$EIRP = E\text{-meas} + 20\log(d\text{-meas}) - 104.7$$
 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 15.255 (c)  
 NOTE 2: The comparison method which replaces EUT with a signal generator is used to find the correct conversion factor between “DSO(mV)” & “Power Measured(dBm)”.



### 3.4 Peak Conducted Power

#### 3.4.1 Limit of Peak Conducted Power

Peak Conducted Power Limit			
Use Condition	6dBc Bandwidth	Occupied Bandwidth	Peak Conducted Power (note 1)
Fixed field disturbance sensors at within the frequency band 61-61.5GHz	> 100MHz	≤ 500MHz	500mW
	≤ 100MHz		500mW x (BW/100) (see note 2)
Fixed field disturbance sensors at outside of the band 61-61.5GHz and within 57 -71 GHz	> 100MHz	N/A	500mW
	≤ 100MHz		500mW x (BW/100) (see note 2)
Except fixed field disturbance sensors at 61-61.5GHz	N/A	> 500MHz	-10 dBm
Except outdoor fixed Point to Point,	> 100MHz	N/A	500mW
Outdoor fixed Point to Point	≤ 100MHz	N/A	500mW x (BW/100) (see note 2)

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

<b>Test Conditions</b>	see ANSI C63.10, clause 5.11 & clause 9
<b>Test Setup</b>	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**

Test Results							
Channel Plan (GHz)	Test Freq. (GHz)	EIRP (dBm)	Max. Ant. Gain (dBi)	Peak Power (dBm) (note1)	Peak Power (mW)	6dBc BW (MHz) (note2)	Peak Power Limit (mW) (note3)
Channel 2 LRP: 60.16-60.80	60.16275	21.88	18	3.88	2.445	60.35	301.75
	60.79725	22.10	18	4.10	2.573	82.05	410.25
Channel 3 LRP: 62.32-62.96	62.95725	20.82	18	2.82	1.913	62.95	314.75

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(c)

NOTE 4: For radiated emission measurements, calculate conducted transmitter output power P(cond)(dBm)

$P(\text{cond}) = \text{EIRP} - G(\text{dBi})$

where:

G(dBi) is gain of EUT antenna.



### 3.5 Transmitter Spurious Emissions

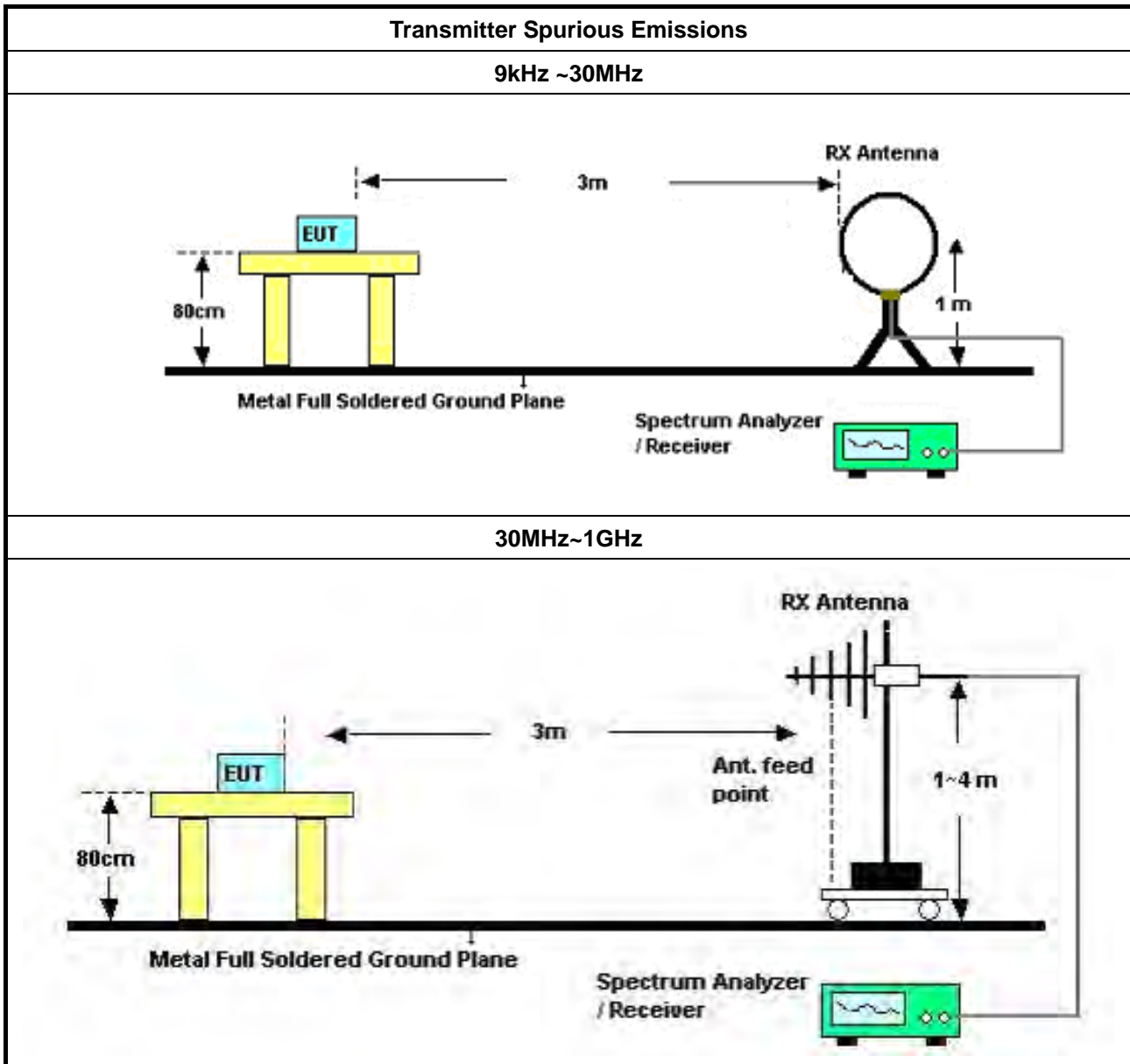
#### 3.5.1 Limit of Transmitter Spurious Emissions

Frequency Range	Limit
Radiated emissions below 40 GHz	15.209
Radiated emissions above 40 GHz – 200GHz	90 pW/cm <sup>2</sup> @ 3 m (Equivalent EIRP 102 μW, -9.91dBm)
NOTE 1: For the applicable limit, see 15.255(d)	
NOTE 2: Spurious emissions shall not exceed the level of the fundamental emission.	

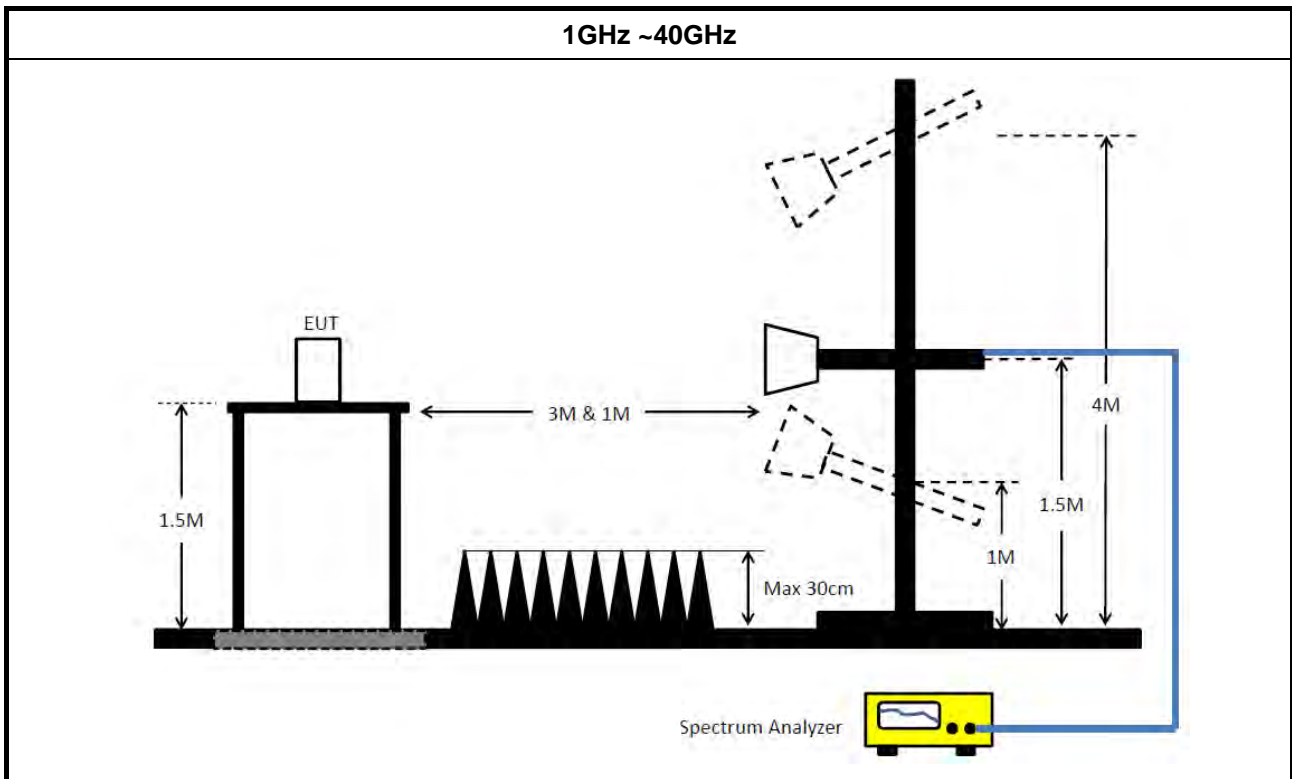
#### 3.5.2 Test Procedures

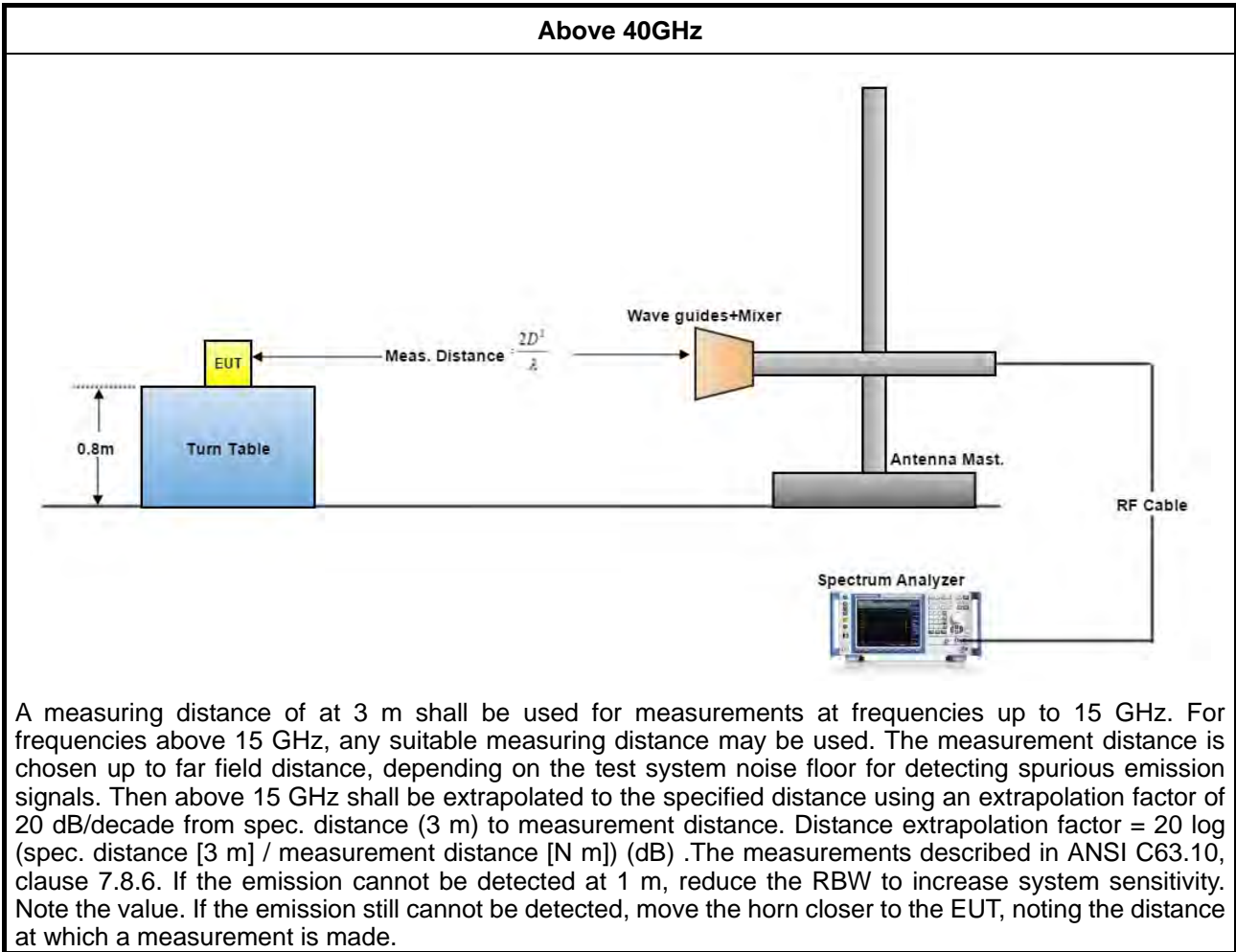
Method of measurement: Refer as ANSI C63.10-2013, clause 9.12

**3.5.3 Test Setup**









### 3.5.4 Measurement Results Calculation

The measured Level is calculated using:

For below 40GHz

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

For above 40GHz

$$EIRP = \text{Meas. Level} - \text{RX Antenna Gain} + 20 \cdot \log(4 \cdot \text{Pi} \cdot (3.14159) \cdot D / (300 / (\text{Frequency} \cdot 1000)))$$



### 3.5.5 Test Result of Transmitter Spurious Emissions

<b>Test Conditions</b>	see ANSI C63.10, clause 5.11 & clause 9
<b>Test Setup</b>	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.	

#### 3.5.5.1 Test Result of Transmitter Spurious Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

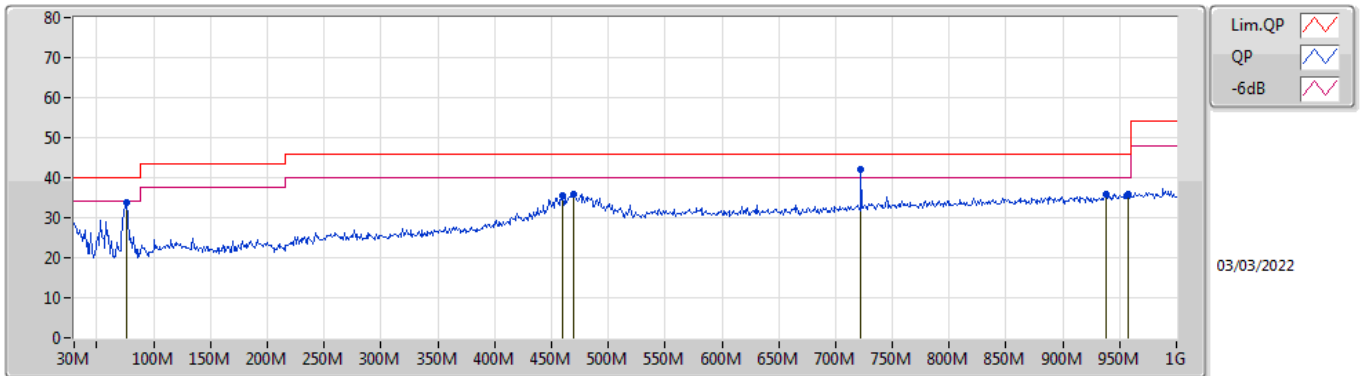


**3.5.5.2 Test Result of Transmitter Spurious Emissions**

<b>Test Range</b>	30 MHz – 1000 MHz	<b>Test Distance</b>	3 m
<b>Test Configuration</b>	CTX / Mode 2		

Vertical

**Mode 2**

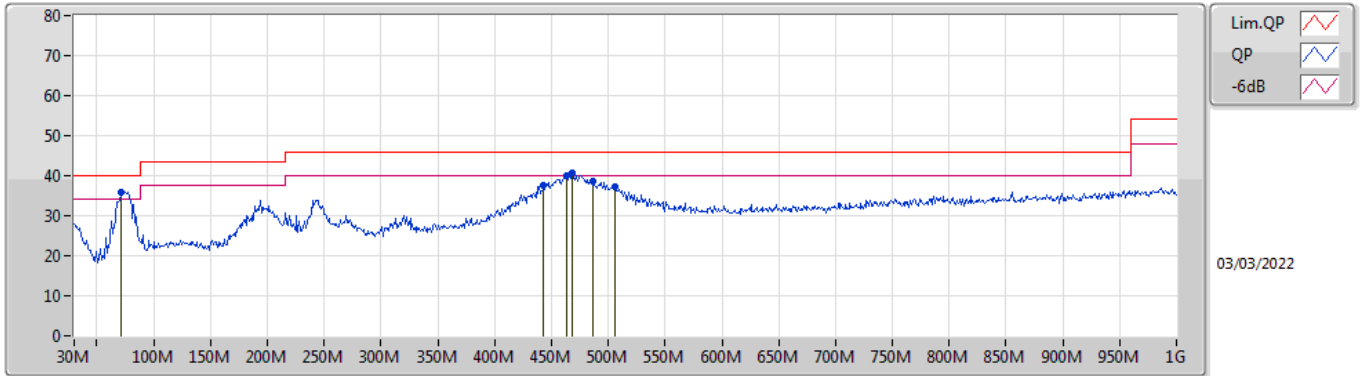


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	76.56M	33.85	40.00	-6.15	-18.17	3	Vertical	277	3.00	-	52.02	12.41	1.33	31.91
PK	459.71M	35.45	46.00	-10.55	-5.98	3	Vertical	180	2.00	-	41.43	22.79	3.52	32.29
PK	469.41M	36.02	46.00	-9.98	-5.73	3	Vertical	196	2.00	-	41.75	23.03	3.54	32.30
PK	722.58M	42.05	46.00	-3.95	-3.33	3	Vertical	317	3.00	"Worst"	45.38	24.76	4.59	32.68
PK	937.92M	35.98	46.00	-10.02	-0.75	3	Vertical	271	1.50	-	36.73	26.31	5.53	32.59
PK	957.32M	35.84	46.00	-10.16	-0.41	3	Vertical	225	1.00	-	36.25	26.56	5.60	32.57



Horizontal

**Mode 2**



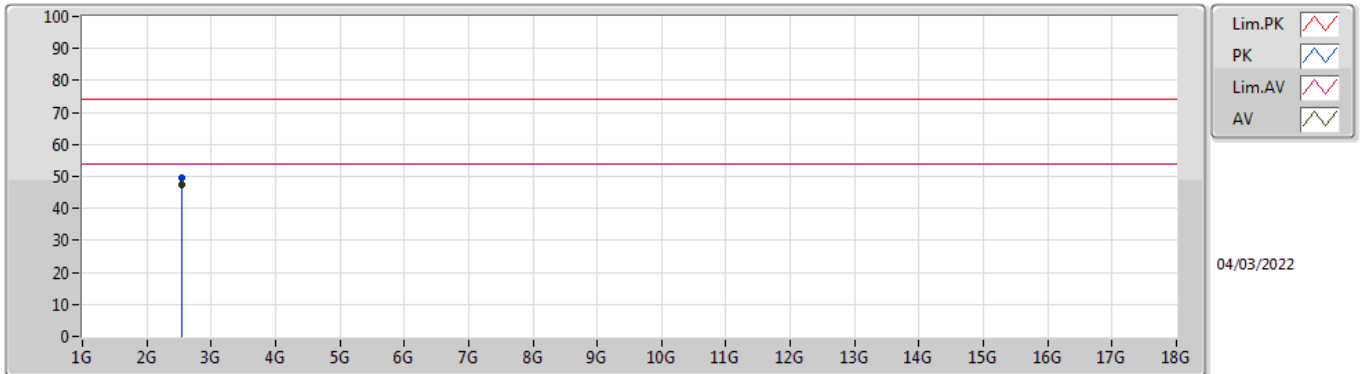
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	71.71M	36.00	40.00	-4.00	-18.36	3	Horizontal	10	3.00	"Worst"	54.36	12.23	1.30	31.89
PK	443.22M	37.67	46.00	-8.33	-6.23	3	Horizontal	302	1.00	-	43.90	22.58	3.46	32.27
PK	463.59M	39.99	46.00	-6.01	-5.87	3	Horizontal	294	1.00	-	45.86	22.89	3.53	32.29
PK	468.44M	40.76	46.00	-5.24	-5.75	3	Horizontal	294	1.00	-	46.51	23.01	3.54	32.30
PK	486.87M	38.77	46.00	-7.23	-5.59	3	Horizontal	113	2.00	-	44.36	23.16	3.57	32.32
PK	506.27M	37.33	46.00	-8.67	-5.56	3	Horizontal	329	2.00	-	42.89	23.16	3.63	32.35



<b>Test Range</b>	1 GHz – 18 GHz	<b>Test Distance</b>	3 m
<b>Test Freq. (GHz)</b>	60.79725		

Vertical

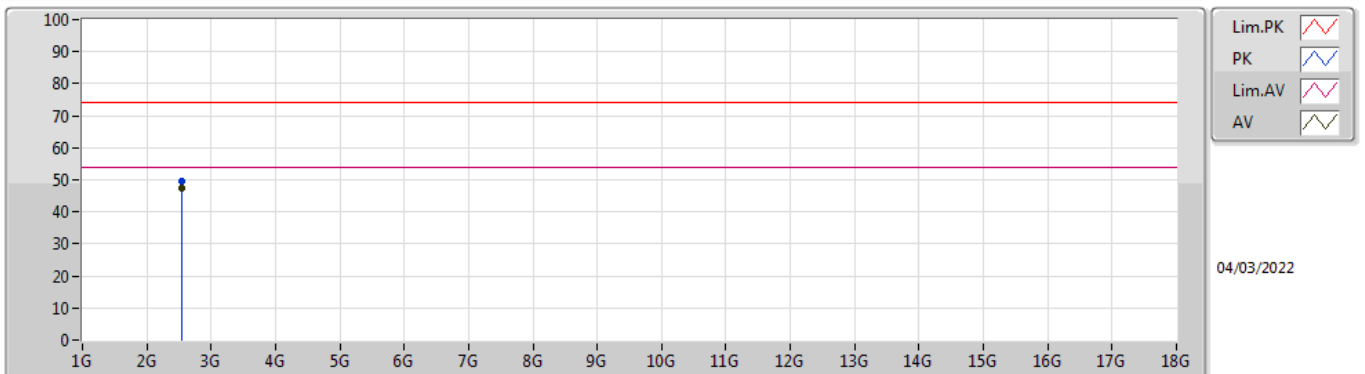
**Mode 1**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	2.53795G	49.64	74.00	-24.36	-2.81	3	Vertical	25	1.00	-	52.45	28.13	3.40	34.34
AV	2.53801G	47.28	54.00	-6.72	-2.81	3	Vertical	25	1.00	"Worst"	50.09	28.13	3.40	34.34

Horizontal

**Mode 1**



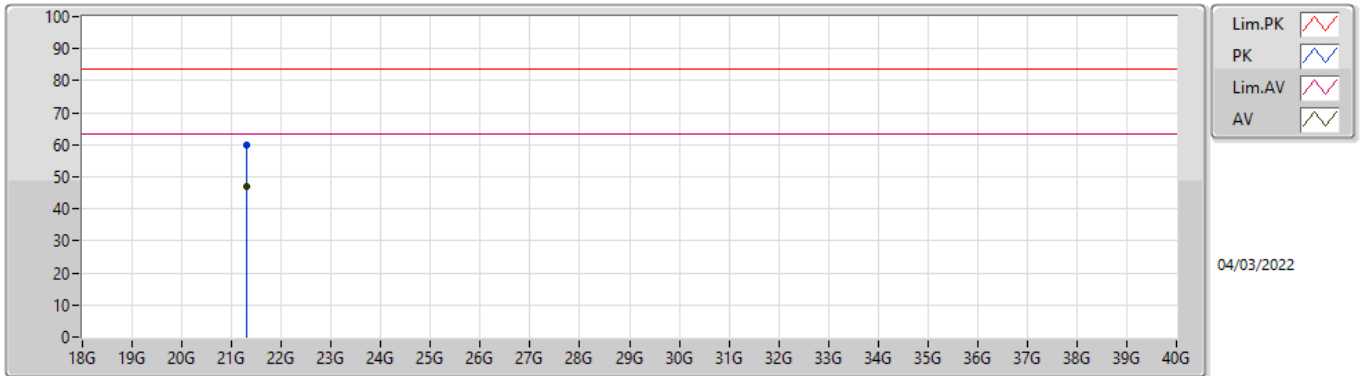
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	2.53805G	49.41	74.00	-24.59	-2.81	3	Horizontal	79	1.18	-	52.22	28.13	3.40	34.34
AV	2.53797G	47.26	54.00	-6.74	-2.81	3	Horizontal	78	1.18	"Worst"	50.07	28.13	3.40	34.34



<b>Test Range</b>	18 GHz – 40 GHz	<b>Test Distance</b>	1 m
<b>Test Freq. (GHz)</b>	60.79725		

Vertical

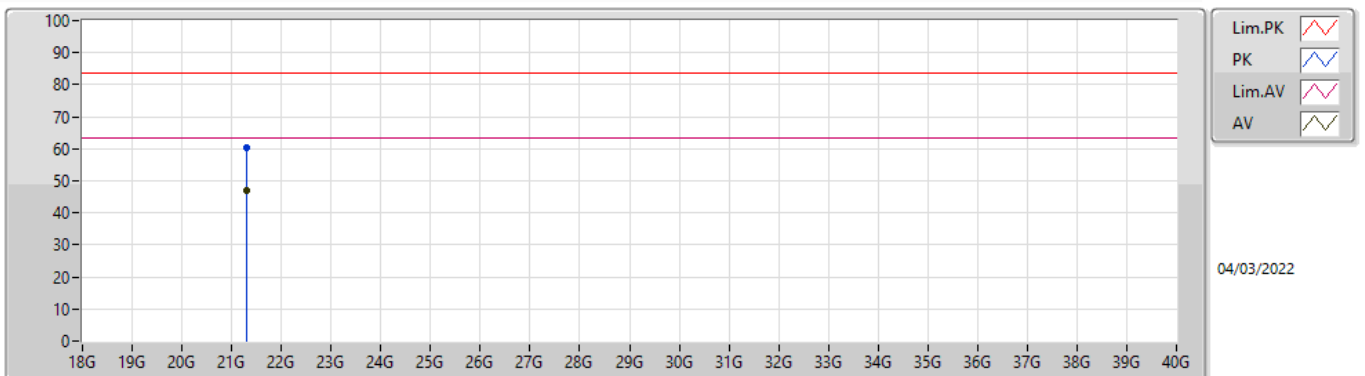
**Mode 1**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	21.30401G	60.04	83.54	-23.50	4.11	1	Vertical	0	0.00	-	55.93	37.66	16.09	49.64
AV	21.3034G	46.93	63.54	-16.61	4.11	1	Vertical	0	0.00	"Worst"	42.82	37.66	16.09	49.64

Horizontal

**Mode 1**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	21.30428G	60.46	83.54	-23.08	4.12	1	Horizontal	0	0.00	-	56.34	37.67	16.09	49.64
AV	21.30315G	46.95	63.54	-16.59	4.11	1	Horizontal	0	0.00	"Worst"	42.84	37.66	16.09	49.64



<b>Test Range</b>	40GHz – 200GHz
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**Test Plan: Channel 2 LRP: 60.16-60.80**

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
60.16275	23.6	0.5	55.94	-75.95
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-38.17	3	0.1346	90.00	PASS

**Test Plan: Channel 2 LRP: 60.16-60.80**

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
60.79725	23.6	0.5	56.50	-77.07
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-39.21	3	0.1061	90.00	PASS

**Test Plan: Channel 3 LRP: 62.32-62.96**

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
62.95725	23.6	0.5	50.11	-71.88
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-35.06	3	0.2757	90.00	PASS

Note:  
 $EIRP = Prx - Grx + \text{Free Space Path Loss} = Prx - Grx + 20\text{Log}(4\pi d / \lambda)^2$   
 Which  
 $Prx = \text{Read Level.}$   
 $Grx = \text{Rx Antenna Gain.}$   
 A distance factor is offset and the formula is  $20\text{LOG}(D1/D2)$   
 Which  
 $D1 = \text{Specification Distance}$   
 $D2 = \text{Measurement Distance}$



### 3.6 Frequency Stability

#### 3.6.1 Limit of Frequency Stability

Frequency Stability	Limit
Refer as 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.	

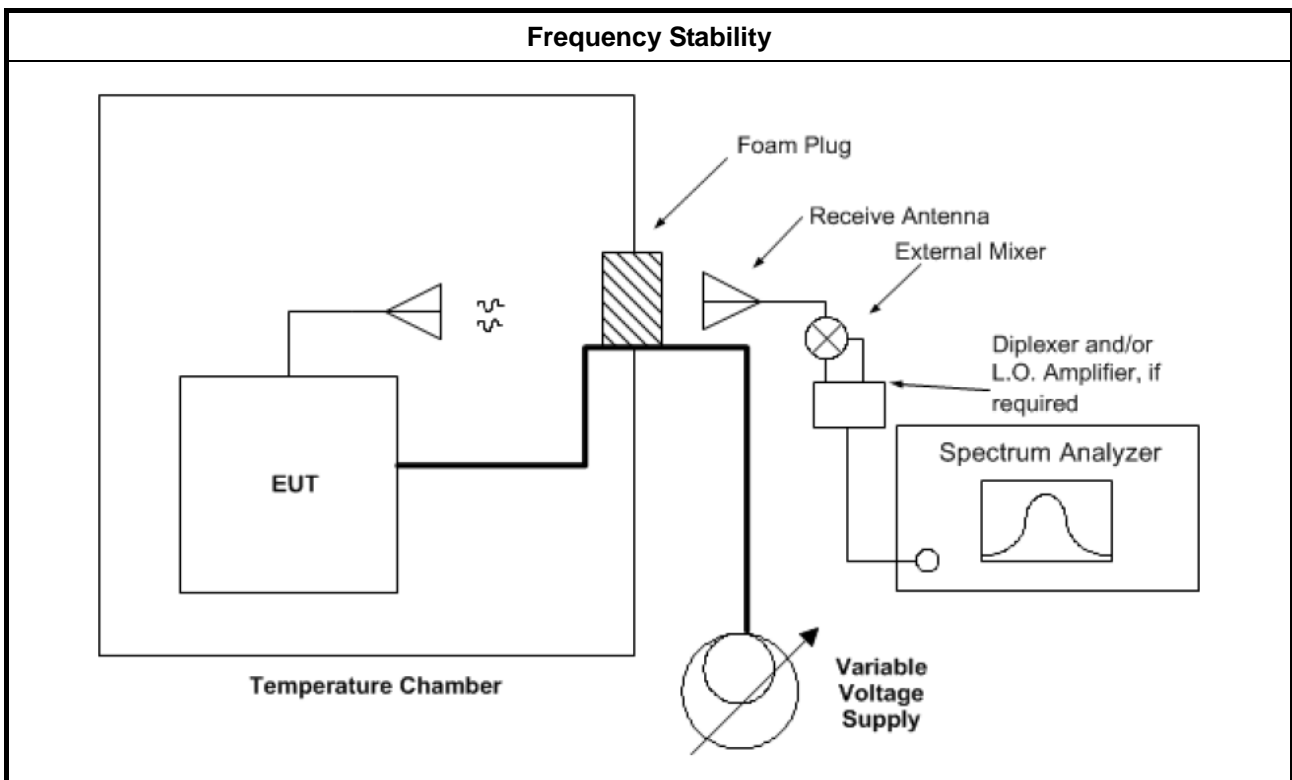
#### 3.6.2 Measuring Instruments

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**

<b>Test Conditions</b>	see ANSI C63.10, clause 5.11 & clause 9
<b>Test Setup</b>	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			
Test Results			
Test Temperature (°C)	Measured Frequency (MHz)	Delta Frequency (kHz)	Limit (±kHz)
-20	60805.3752	3204.7	Within band
-10	60805.3703	3199.8	Within band
0	60805.3647	3194.2	Within band
10	60805.3647	3194.2	Within band
20	60802.1705	Reference	Within band
30	60802.1705	0	Within band
40	60804.3185	2148	Within band
50	60804.3185	2148	Within band



**3.6.5.2 Frequency Stability When Varying Supply Voltage**

Frequency Stability When Varying Supply Voltage			
Test Results			
Test Voltage: (Vdc)	Measured Frequency (MHz)	Delta Frequency (kHz)	Limit ( $\pm$ kHz)
102	60802.1705	0	Within band
120	60802.1705	Reference	Within band
138	60802.1705	0	Within band



### **3.7 Operation Restriction and Group Installation**

#### **3.7.1 Limit of Operation Restriction and Group Installation**

<b>Item</b>	<b>Limit</b>
Operation Restriction	Operation is not permitted for the following products: <ul style="list-style-type: none"><li>♦ Equipment used on aircraft or satellites. (Refer as 15.255 (a))</li><li>♦ Field disturbance sensors, including vehicle radar systems, unless the field disturbance sensors are employed for fixed operation. (Refer as 15.255 (a))</li></ul>
Group Installation	Operation is not permitted for the following products: <ul style="list-style-type: none"><li>♦ External phase-locking (Refer as 15.255 (h))</li></ul>

#### **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.

#### **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	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGR EN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)



RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
*Mixer	OML	M19HWA	U91113-1	40 ~ 60 GHz	Nov. 02, 2020	Nov. 01, 2022	Radiation (03CH01-CB)
*Mixer	OML	M15HWA	V91113-1	50 ~ 75 GHz	Nov. 13, 2020	Nov. 12, 2022	Radiation (03CH01-CB)
*Mixer	OML	M12HWA	E91113-1	60 ~ 90 GHz	Nov. 14, 2020	Nov. 13, 2022	Radiation (03CH01-CB)
*Mixer	OML	M08HWA	F91113-1	90 ~ 140 GHz	Nov. 02, 2020	Nov. 01, 2022	Radiation (03CH01-CB)
*Mixer	OML	M05HW/A	G91113-1	140 ~ 220 GHz	Nov. 02, 2020	Nov. 01, 2022	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M19RH	U91113-A	40 ~ 60 GHz	N.C.R	N.C.R	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M15RH	V91113-A	50 ~ 75 GHz	N.C.R	N.C.R	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M12RH	E91113-A	60 ~ 90 GHz	N.C.R	N.C.R	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M08RH	F91113-A	90 ~ 140 GHz	N.C.R	N.C.R	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M05RH	G91113-A	140 ~ 220 GHz	N.C.R	N.C.R	Radiation (03CH01-CB)
*Detector	Millitech	DET-15-RPF W0	#A18185(074)	50 ~ 75 GHz	Apr. 02, 2020	Apr. 01, 2022	Radiation (03CH01-CB)
PC Oscilloscope	PICO TECH	6402C	CX372/002	N/A	Jul. 08, 2021	Jul. 07, 2022	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Radiation (TH03-CB)



RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Radiation (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Radiation (TH03-CB)
Temp. and Humidity Chamber	Gaint Force	GTH-408-40-CP-AR	MAA1410-011	-40~100 degree	Sep. 09, 2021	Sep. 08, 2022	Radiation (TH03-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)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (40GHz ~ 60GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (60GHz ~ 90GHz)	4.5 dB	Confidence levels of 95%
Radiated Emission (90GHz ~ 200GHz)	5.3 dB	Confidence levels of 95%
Temperature	1.1°C	Confidence levels of 95%