



JAPAN Radio Test Report

60GHz DATA TRANSMISSION SYSTEMS

Product Name : HDMI wireless 60G Extender

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

Declaration : 10 mW (60GHz System)

Output Power

STANDARD : Article 2 Paragraph 1 Item 19-4-3 of the Certificate
Ordinance of the Radio Law indicates the
classification of the specified radio equipment

Test procedure : DSPR temporary procedure for 60GHz specified low
power data transmission systems

The product sample received on Dec. 16, 2020 and testing was started from Dec. 23, 2020 and completed on Feb. 10, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in DSPR temporary procedure for 60GHz specified low power data transmission systems and shown to be compliant with the applicable technical standards. Article 2 Paragraph 1 Item 19-4-3 of the Certificate Ordinance of the Radio Law indicates the classification of the specified radio equipment.

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

Louis Wu

Reviewed by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
JR0D1612-01	01	Initial issue of report	Feb. 25, 2021

SUMMARY OF TEST RESULT

Report Section	Description	Result
3.1	Frequency Tolerance	Pass
3.2	Occupied Bandwidth	Pass
3.3	Unwanted Emission Intensity	Pass
3.4	RF Output Power / Tolerance and EIRP Power	Pass
3.5	Limitation of Collateral Emission of Receiver	Pass
3.6	Radio Interference Prevention Capability	Pass
3.7	Construction Protection Confirmation	Pass
3.8	Carrier Sense Mechanism	NA

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

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: Wii Chang

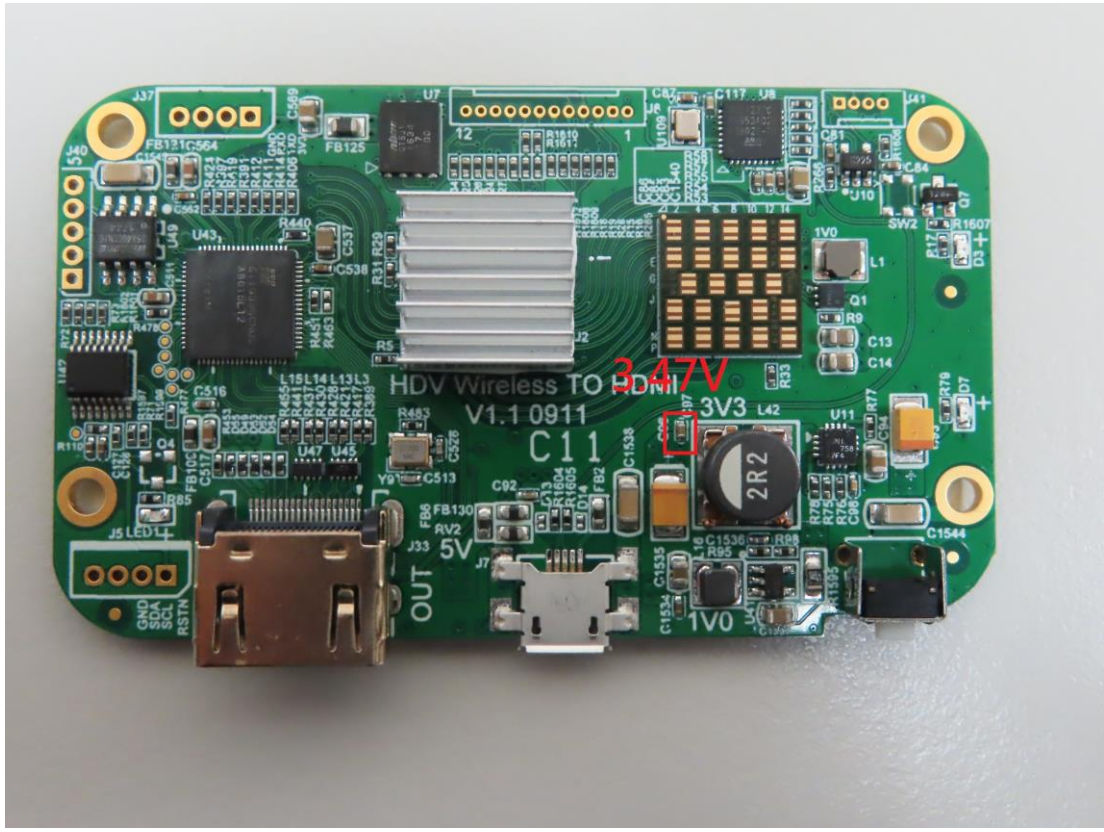
Report Producer: Amy Chen

1 General Description

1.1 Feature of Equipment Under Test

Product Feature & Specification		
Product Name	HDMI wireless 60G Extender	
Model Name	HDV-W561 RX	
Support Category / Frequency Range	Article 2-1-19-4-3 ☒ 60.11375 ~ 62.95725 GHz	
Number of Channels	HRP Channel 2	60.48 GHz
	HRP Channel 3	62.64 GHz
	LRP Channel 0	(HRP - 366.25MHz) ~ (HRP - 268.25 MHz)
	LRP Channel 1	(HRP - 207.625MHz) ~ (HRP - 109.625 MHz)
	LRP Channel 2	(HRP - 49MHz) ~ (HRP + 49 MHz)
	LRP Channel 3	(HRP + 109.625 MHz) ~ (HRP + 207.625MHz)
	LRP Channel 4	(HRP + 268.25 MHz) ~ (HRP + 366.25MHz)
Declaration RF Output Power	10 mW (60GHz System)	
Antenna Power (E.I.R.P)	28 dBm (60GHz System)	
Type of Modulation	☒ OFDM ☐ Other:	
Power Source ^{NOTE}	☐ Commercial power	AC 100 ~ 240V
	☒ External Power Source	DC 5V, 2A
	☐ Lithium battery	DC 3.7V, mAh
	☐ UM battery	DC 1.2V

NOTE: When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cases were done under the normal supply voltage.

Power Supply voltage 5 Vdc (Nominal)	Power Supply voltage 5.5 Vdc (+10%)	Power Supply voltage 4.5 Vdc (-10%)
3.47	3.47	3.47
Measurement point		
		

Antenna Information		
Main Antenna	Antenna Type : Phase Array Antenna	Antenna Gain : 18 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Site

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 / FAX: +886-3-327-0855
Test Site No.	Sporton Site No.: 05CH05-HY

Test Items	Uncertainty	Remark
Frequency tolerance / 99%, 90% frequency bandwidth	+/- 0.488 Hz	Confidence 95%
RF Output Power	+/- 0.8 dB	Confidence 95%
Radiated Emission (30 MHz ~ 1 GHz)	+/- 2.26 dB	Confidence 95%
Radiated Emission (1 ~ 18 GHz)	+/- 3.02 dB	Confidence 95%
Radiated Emission (18 ~ 40 GHz)	+/- 3.22 dB	Confidence 95%
Radiated Emission (40 ~ 128 GHz)	+/- 6.50 dB	Confidence 95%
Temperature	+/- 0.8 degree	Confidence 95%
Humidity	+/- 3.04 %	Confidence 95%

1.4 Applied Standards

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

- Article 49-14 and the relevant articles of the Ordinance Regulating Radio Equipment

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The measurement was implemented in accordance with MIC Notice No. 88 Appendix No. 22-16.

1.5 Ancillary Equipment List

None.

2 Test Configuration of Equipment Under Test

2.1 Frequency Range of Group

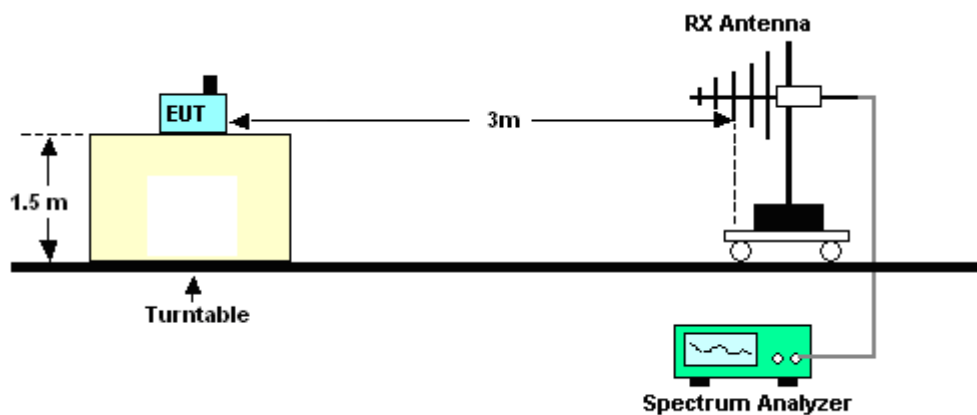
Group	Frequency Range (GHz)
HRP 2 + LRP 0 (60.16275 GHz)	60.11375 ~ 60.21175
HRP 2 + LRP 4 (60.79725 GHz)	60.74825 ~ 60.84625
HRP 3 + LRP 0 (62.32275 GHz)	62.27375 ~ 62.37175
HRP 3 + LRP 4 (62.95725 GHz)	62.90825 ~ 63.00625

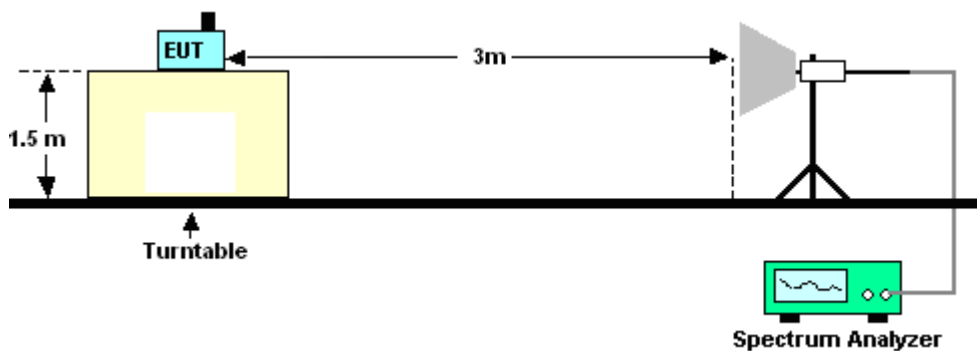
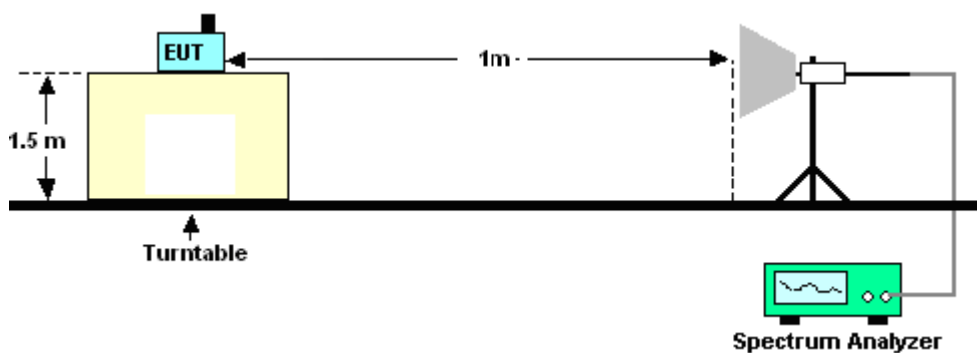
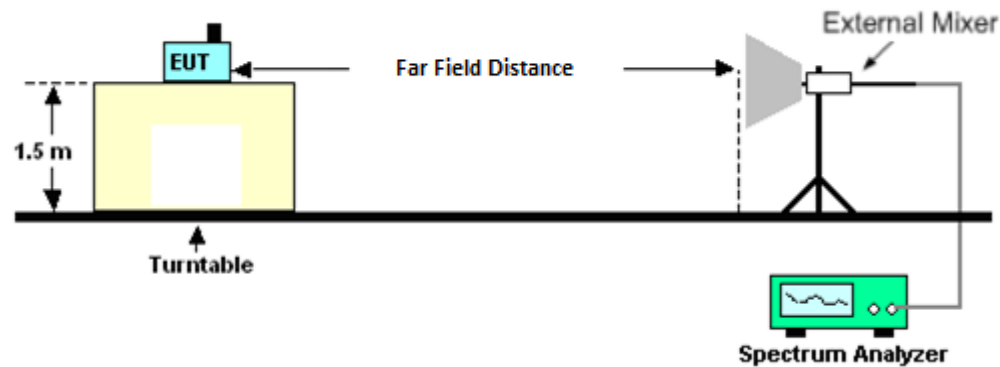
2.2 EUT Operation Test Setup

During testing, setup program provided by the customer was used to control the operating channel as well as the output power level.

2.3 Test setup

<Radiated measurement below 1GHz>



<Radiated measurement from 1GHz to 18GHz>

< Radiated measurement from 18GHz to 40GHz>

< Radiated measurement with mixer above 40GHz>


3 Test Result

3.1 Frequency Tolerance Measurement

3.1.1 Limit

Item	Limits
Frequency Tolerance	Within 57 ~ 66GHz

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

1. Setting of SA is following as: RBW:1MHz / VBW:1MHz.
2. The frequency tolerance test case is directly measured using spectrum analyzer.
3. Calculate occupied frequency range within specific frequency range.

3.1.4 Test Setup

See Clause 2.3 of this report.

3.1.5 Test Deviation

There is no deviation with the original standard.

3.1.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.1.7 Test Result of Frequency Tolerance

Please refer to 0.

3.2 Occupied Bandwidth Measurement

3.2.1 Limit

Item	Limits
Occupied Bandwidth	$\leq 9\text{GHz}$

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. Setting of SA is following as: RBW: 1MHz / VBW: 1MHz / Sweep Mode: continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
2. EUT have transmitted each modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 7GHz.

3.2.4 Test Setup

See Clause 2.3 of this report.

3.2.5 Test Deviation

There is no deviation with the original standard.

3.2.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.2.7 Test Result of Occupied Bandwidth Measurement

Please refer to 0.

3.3 Unwanted Emission Intensity Measurement

3.3.1 Limit

Item	Frequency	Limits
Tx Spurious Emission	$\leq 55.62\text{GHz}$	-30dBm/MHz
	$55.62\text{GHz} < \text{and} \leq 57\text{GHz}$	-26dBm/MHz
	$66\text{GHz} < \text{and} \leq 67.5\text{GHz}$	-26dBm/MHz
	$67.5\text{GHz} < \text{and} \leq 2 \text{ times of operational frequency}$	-30dBm/MHz

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. EUT have transmitted the maximum power.
2. Setting of SA is following as: RBW: 1 MHz / VBW: 1 MHz between 1GHz and 2 times of operational frequency / Sweep points: More than 400 points / Sweep Mode: Single Sweep / Detect mode: Positive Peak.
3. Setting of SA is following as: RBW: 100 kHz / VBW: 100 kHz under 1GHz, Sweep time: Auto / Sweep Mode: Single sweep / Detect mode: Positive peak.
4. Any mark peak reading value + cable loss shall be less than the limits listed in clause 3.3.1.
5. If the value in Step 4 is over the limits, the setting of SA should be following as: RBW: 100 kHz for below 1GHz, 1 MHz for above 1 GHz / VBW = RBW / Detector: Sample / Sweep points: More than 400 points / Sweep Mode: Single Sweep.

3.3.4 Test Setup

See Clause 2.3 of this report.

3.3.5 Test Deviation

There is no deviation with the original standard.

3.3.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.3.7 Test Result of Unwanted Emission Intensity

Please refer to Appendix B.

3.4 RF Output Power / Tolerance

3.4.1 Limit

Item	Limits
Antenna Power	≤ 10 mW
Antenna Power Error	+50%, -70%

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. Connect RF detector to the Oscilloscope, and find worst angle of EUT.
2. Record the worst peak voltage reading on the Oscilloscope.
3. Replace EUT with a signal generator. Set the generator at the same frequency as the EUT.
4. Place an adjustable attenuator at the output of signal generator.
5. Adjust the attenuator until the peak voltage reading on the Oscilloscope is same as the value recorded in step 2.
6. Measure the power with power meter after the adjusting is done.
7. The measured power + horn antenna gain is the EIRP power of EUT.
8. $EIRP - \text{Declared antenna gain of EUT} = \text{Antenna Power}$

3.4.4 Test Deviation

There is no deviation with the original standard.

3.4.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.4.6 Test Result of RF Output Power / Tolerance and EIRP Power

Please refer to 0.

3.5 Limitation of Collateral Emission of Receiver Measurement

3.5.1 Limit

Item	Frequency	Limits
Rx Spurious Emission	< 1GHz	$\leq 4 \text{ nW/100kHz}$
	> 1GHz	$\leq 20 \text{ nW/1MHz}$

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW: 100KHz and VBW: 100KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4 nW.
3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1GHz and stop frequency 2 times of operation frequency. Search to mark peak reading value + cable loss shall be less than 20 nW.
4. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

3.5.4 Test Setup

See Clause 2.3 of this report.

3.5.5 Test Deviation

There is no deviation with the original standard.

3.5.6 EUT Operation during Test

The EUT was programmed to be in continuously reception mode.

3.5.7 Test Result of Limitation of Collateral Emission of Receiver

The EUT can't not operate in receive only mode.

3.6 Radio Interference Prevention Capability Measurement

3.6.1 Requirement

User can easily switch On/Off of transmitting radio power.

3.6.2 Test Result of Radio Interference Prevention Capability

The EUT has the capability.

3.7 Construction Protection Confirmation Method

3.7.1 Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

3.7.2 Confirmation Method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☒	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other :

3.7.3 The Photos of Construction Protection





3.8 Carrier Sense Mechanism

3.8.1 Requirement

If output power of EUT is over 10mW, then the Carrier Sense Mechanism should be employed.

3.8.2 Test Result of Carrier Sense Mechanism

Not applicable. The output power of EUT does not exceed 10mW.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Calibration Date	Test Date	Due Date	Calibration Body	Calibration Method
Spectrum Analyzer	R&S	FSV30	103738	May 14, 2020	Dec. 23, 2020~ Feb. 03, 2021	May 13, 2021	ETC ROC	C
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	Feb. 25, 2020	Dec. 23, 2020~ Feb. 03, 2021	Feb. 24, 2021	Sporton ROC	C
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	Apr. 08, 2020	Dec. 23, 2020~ Feb. 03, 2021	Apr. 07, 2021	ETC ROC	C
Signal Generator	Anritsu	MG3710A	6261943042	May 10, 2020	Dec. 23, 2020~ Feb. 10, 2021	May 09, 2021	ETC ROC	C
Amplifier	Quinstars	QLW-5075453 0-I2	953600006	Jul. 20, 2018	Feb. 10, 2021	Jul. 19, 2021	Sporton ROC *note1	C
Broadband Detector	Quinstar	QEA-FBFBVP	2672009	Jun. 06, 2020	Feb. 10, 2021	Jun. 05, 2021	MWM Russia	C
Oscilloscope	Rohde & Schwarz	RTO 1002	400025	Sep. 15, 2020	Feb. 10, 2021	Sep. 14, 2021	R&S ROC	C
Power Meter	Agilent	E4416A	GB41292344	Jan. 14, 2021	Feb. 10, 2021	Jan. 13, 2022	ETC ROC	C
Power Sensor	Keysight	V8486A	MY60170002	Apr. 29, 2020	Feb. 10, 2021	Apr. 28, 2021	Keysight Malaysia	C
Passive Frequency Multiplier	SAGE	SFP-152KF-S1	SN- PFM02	N.C.R	Dec. 23, 2020~ Feb. 03, 2021	N.C.R	Sporton ROC	C
Mixer	R&S	FS-Z60	101033	Mar. 17, 2020	Dec. 23, 2020~ Feb. 03, 2021	Mar. 16, 2021	R&S Germany	C
Mixer	R&S	FS-Z75	102042	Apr. 23, 2020	Dec. 23, 2020~ Feb. 03, 2021	Apr. 22, 2021	R&S Germany	C
Mixer	R&S	FS-Z90	101811	Jul. 16, 2018	Dec. 23, 2020~ Feb. 03, 2021	Jul. 15, 2021	Sporton ROC *note1	C
Mixer	R&S	FS-Z110	102010	Jun. 17, 2020	Dec. 23, 2020~ Feb. 03, 2021	Jun. 16, 2021	R&S Germany	C
Mixer	R&S	FS-Z140	101128	Oct. 26, 2020	Dec. 23, 2020~ Feb. 03, 2021	Oct. 25, 2021	Sporton ROC *note1	C
Mixer	R&S	FS-Z170	101004	Nov. 17, 2020	Dec. 23, 2020~ Feb. 03, 2021	Nov. 16, 2021	R&S Germany	C
Standard Horn Antenna	Quinstar	QWH-UPRR00	923600007	Aug. 17, 2018	Dec. 23, 2020~ Feb. 03, 2021	Aug. 16, 2021	Sporton ROC *note2	C
Standard Horn Antenna	Quinstar	QWH-EPRR00	784600034	Aug. 17, 2018	Dec. 23, 2020~ Feb. 03, 2021	Aug. 16, 2021	Sporton ROC *note2	C
Standard Horn Antenna	Quinstar	QWH-FPRR00	923800008	Aug. 17, 2018	Dec. 23, 2020~ Feb. 03, 2021	Aug. 16, 2021	Sporton ROC *note2	C
Standard Horn Antenna	Quinstar	QWH-VPRR00	923700007	Aug. 17, 2018	Dec. 23, 2020~ Feb. 10, 2021	Aug. 16, 2021	Sporton ROC *note2	C
Standard Horn Antenna	Quinstar	QWH-WPRR00	1371900009	Mar. 16, 2020	Dec. 23, 2020~ Feb. 03, 2021	Mar. 15, 2021	Sporton ROC *note2	C
Standard Horn Antenna	Quinstar	QWH-DPRR00	1372100001	Mar. 16, 2020	Dec. 23, 2020~ Feb. 03, 2021	Mar. 15, 2021	Sporton ROC *note2	C
Low Noise Amplifier	R&S	W-LNA 75-110 40 3	200142	Nov. 25, 2020	Dec. 23, 2020~ Feb. 03, 2021	Nov. 24, 2021	R&S Germany	C
Low Noise Amplifier	R&S	D-LNA 110-170 30 6	100011	Nov. 25, 2020	Dec. 23, 2020~ Feb. 03, 2021	Nov. 24, 2021	R&S Germany	C



Instrument	Brand Name	Model No.	Serial No.	Calibration Date	Test Date	Due Date	Calibration Body	Calibration Method
Bilog Antenna	Teseq GmbH	CBL6112D	35379	Oct. 11, 2020	Feb. 01, 2021~ Feb. 04, 2021	Oct. 10, 2021	Sporton ROC	C
Double Ridge Horn Antenna	ESCO	3117	00066583	Sep. 15, 2020	Feb. 01, 2021~ Feb. 04, 2021	Sep. 14, 2021	ETC ROC	C
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	May 22, 2020	Feb. 01, 2021~ Feb. 04, 2021	May 21, 2021	ETC ROC	C
Signal Analyzer	Rohde & Schwarz	FSV3044	101010	Nov. 25, 2020	Feb. 01, 2021~ Feb. 04, 2021	Nov. 24, 2021	ETC ROC	C
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180002	Aug. 19, 2020	Feb. 01, 2021~ Feb. 04, 2021	Aug. 18, 2021	Sporton ROC	C
Amplifier	SONOMA	310N	187282	Dec. 16, 2020	Feb. 01, 2021~ Feb. 04, 2021	Dec. 15, 2021	ETC ROC	C
Preamplifier	EMEC	EM18G40G	060715	Dec. 11, 2020	Feb. 01, 2021~ Feb. 04, 2021	Dec. 10, 2021	ETC ROC	C
Hygrometer	TECPEL	DTM-303B	TP161370	Jul. 27, 2020	Feb. 01, 2021~ Feb. 04, 2021	Jul. 26, 2021	Sporton ROC	C
Controller	EMEC	EM1000	N/A	N/A	Feb. 01, 2021~ Feb. 04, 2021	N/A	N/A	N/A
Antenna Mast	ChainTek	MD-200	1308055	N/A	Feb. 01, 2021~ Feb. 04, 2021	N/A	N/A	N/A
Turn Table	EMEC	TT 2000	N/A	N/A	Feb. 01, 2021~ Feb. 04, 2021	N/A	N/A	N/A
Test Software	Audix E3	6.2009-8-24	RK-000992	N/A	Feb. 01, 2021~ Feb. 04, 2021	N/A	N/A	N/A
Digital MultiMeter	DHA	DMM-98 TRMS	SN01 (74200950)	Feb. 13, 2020	Feb. 01, 2021~ Feb. 04, 2021	Feb. 12, 2021	ETC ROC	C
DC Power Supply	GW Instek	GPE2323	GET910884	Feb. 15, 2020	Feb. 01, 2021~ Feb. 04, 2021	Feb. 14, 2021	ETC ROC	C

Note:

1. Acceptance criteria was formulated according to ISO/IEC 17025:2017 clause 6.5.3, the regular inspection is performed based on it annually.
2. Acceptance criteria was formulated according to IEEE ANSI C63.10-2013 clause 4.4.3 a), the inspection of antenna outline is performed annually.

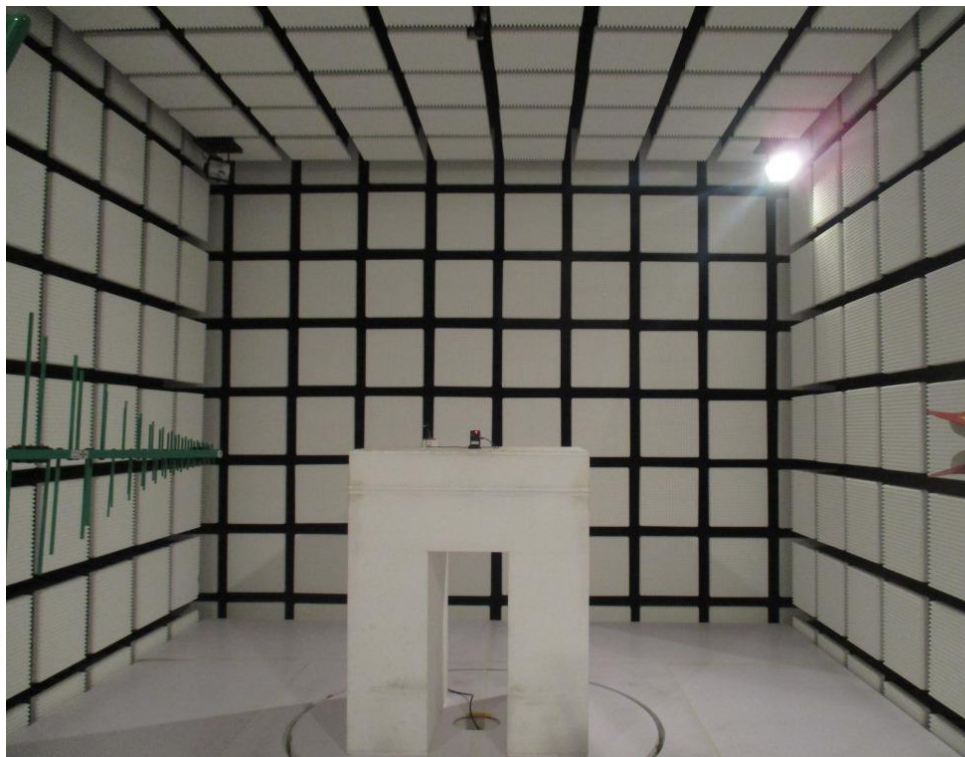
Calibration Method :

- a) : Calibration conducted by the National Institute of Information and Communications Technology ~ NICT ~ or a designated calibration agency under Article 102-18 paragraph
(1) TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc ~.
- b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~ Japan Calibration Service System ~
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph

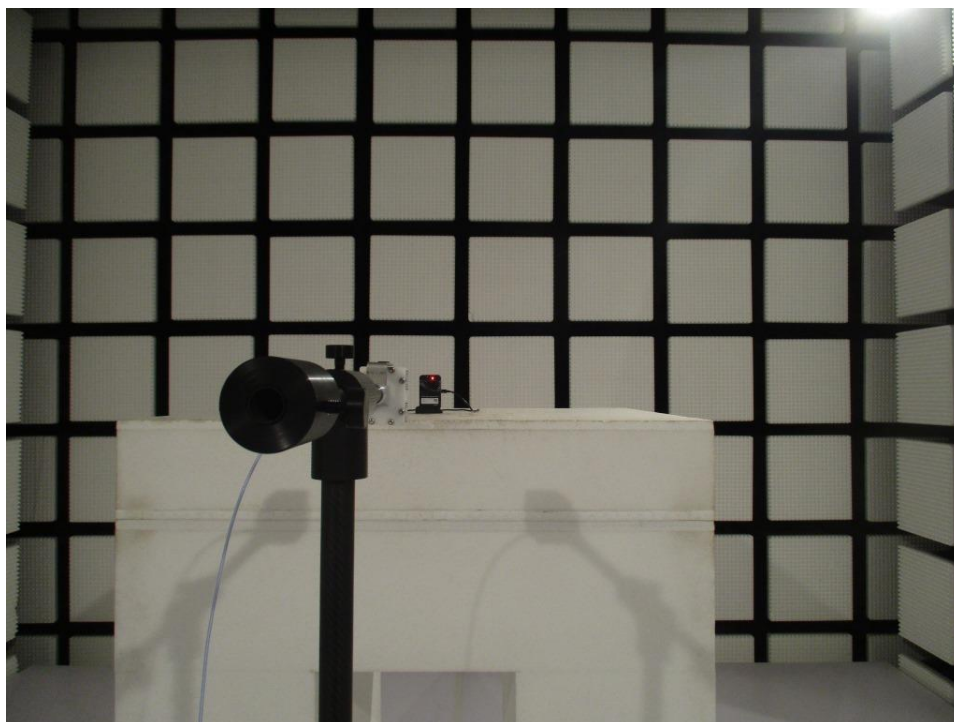
Appendix A. Setup Photographs

<Radiated Emission>

30MHz ~ 18GHz



18GHz ~ 40GHz



40GHz ~ 128GHz





Appendix B. Test Results

Please refer to the following pages for test results.

1. TEST RESULTS DATA
SENSORS FOR DETECTING - 60GHz Band

Environment of Test Room	Temperature	20 ~ 23 °C
	Humidity	55 ~ 65 %
	Operating Voltage	5.00 Vdc
Declaration Output Power	10.00	mW
Declaration Output Power	10.00	dBm
E.I.R.P	28.00	dBm

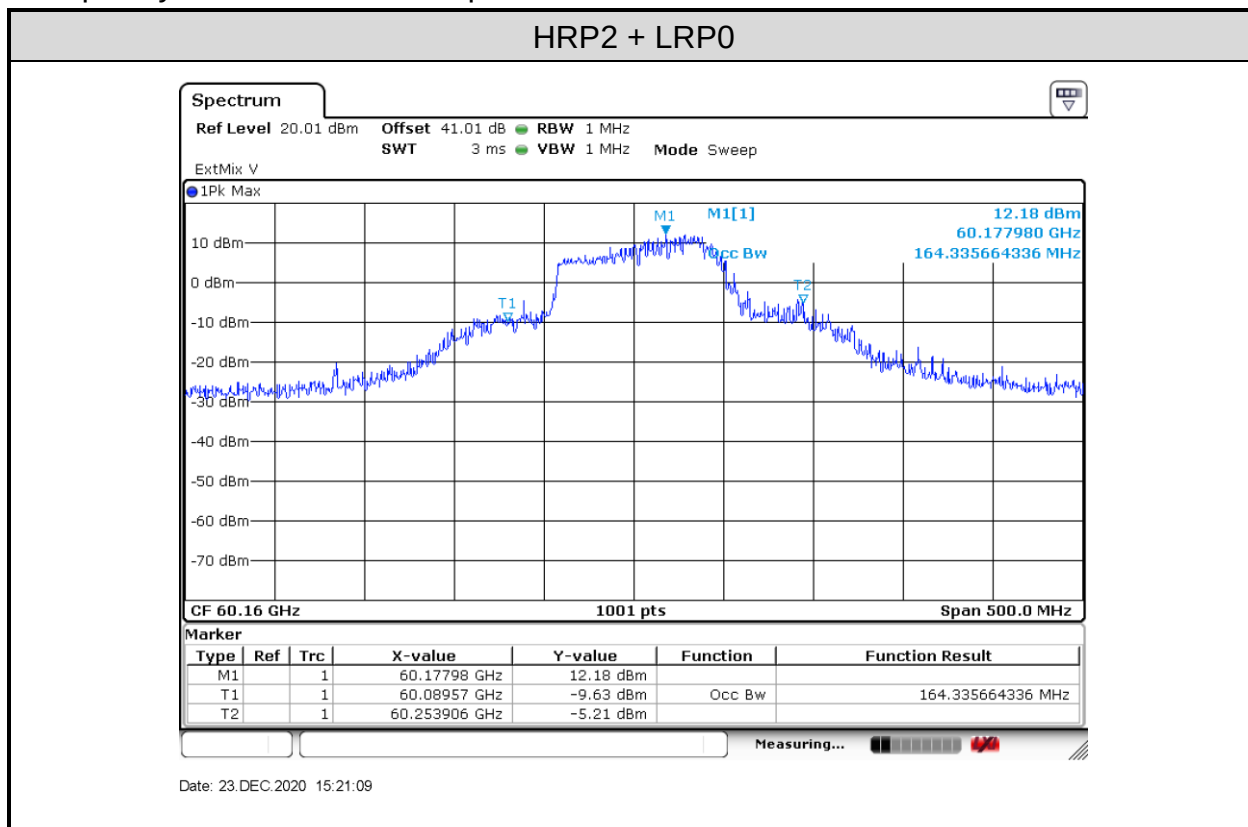
Modulatoin Type :	OFDM
Antenna Type :	Phase Array Antenna
Antenna Gain :	18.00 dBi
Testing Engineer	Eric Jeng

1. TEST Results

Measurement Frequency	GHz	60.16275	60.79725	62.32275	62.95725	Result	Limit
HRP+LRP combination group	Ch.	HRP2 + LRP0	HRP2 + LRP4	HRP3 + LRP0	HRP3 + LRP4	-----	-----
Low Operating Band Edge	GHz	60.0896	60.7186	62.2561	62.8826	PASS	≥ 57
High Operating Band Edge	GHz	60.2539	60.8864	62.4049	63.0389	PASS	≤ 66
Occupied Bandwidth	GHz	0.16434	0.16783	0.14885	0.15634	PASS	≤ 9
RF Output Power	mW	14.521	14.388	8.995	7.586	PASS	-----
RF Output Power Tolerance	%	45.21	43.88	-10.05	-24.14	PASS	(+50 / -70)
EIRP power	dBm	29.620	29.580	27.540	26.800	-----	-----
Unwanted Emission Strength	30 MHz - 1 GHz	dBm/MHz	-57.71			PASS	≤ -30
		MHz	92.08			-----	-----
	1 GHz - 18 GHz	dBm/MHz	-35.20			PASS	≤ -30
		MHz	5074			-----	-----
	18 GHz - 40 GHz	dBm/MHz	-50.79			PASS	≤ -30
		MHz	36990			-----	-----
	40 GHz - 55.62 GHz	dBm/MHz	-36.59			PASS	≤ -30
		MHz	45866			-----	-----
	55.62 GHz - 57 GHz	dBm/MHz	-36.95			PASS	≤ -26
		MHz	56519.7			-----	-----
	66 GHz - 67.5 GHz	dBm/MHz	-42.65			PASS	≤ -26
		MHz	66281.1			-----	-----
Secondarily Emitted Radio Wave Strength (RX Spurious)	30 MHz - 1 GHz	dBm/MHz	-38.59			PASS	≤ -30
		MHz	127867			-----	-----
	1 GHz - 40 GHz	nW	2.01			PASS	≤ 4
		MHz	95.96			-----	-----
	40 - 128 GHz	nW	7.64			PASS	≤ 20
		MHz	39944			-----	-----
		nW	16.41			PASS	≤ 20
		MHz	46324			-----	-----
Interference Prevention Function	-----	good				PASS	
Carrier Sense Mechanism	-----	Output power does not exceed 10 mW				NA	

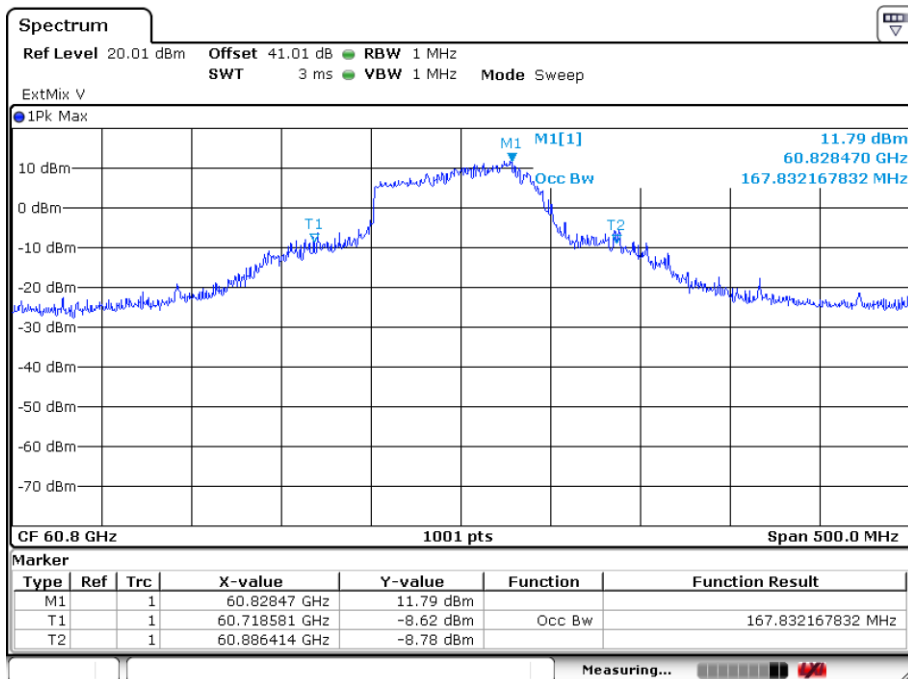
Appendix C. Test Plots

C.1. Frequency Tolerance and Occupied Bandwidth



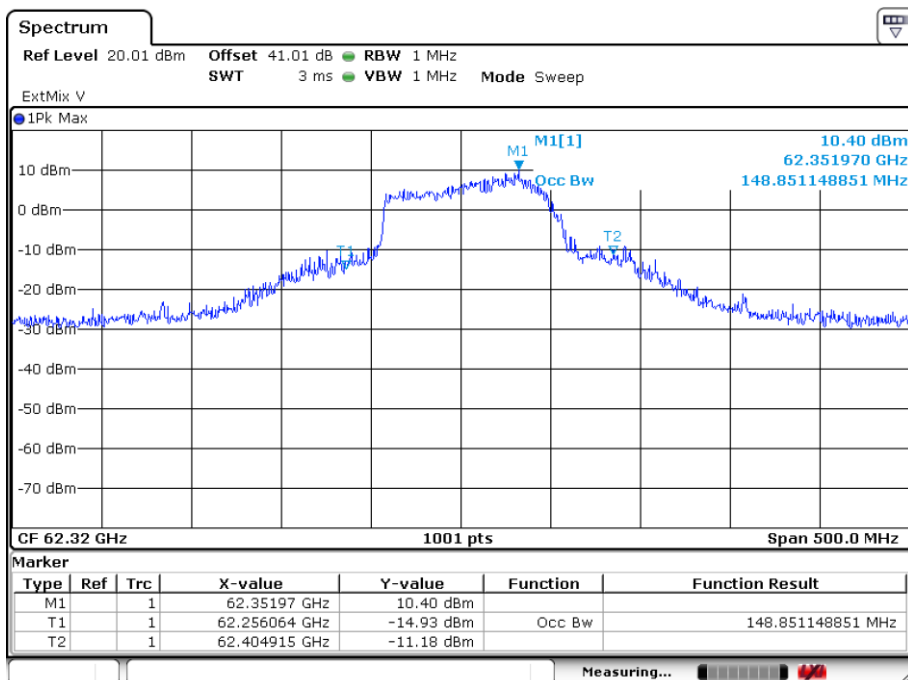


HRP2 + LRP4



Date: 23.DEC.2020 15:39:32

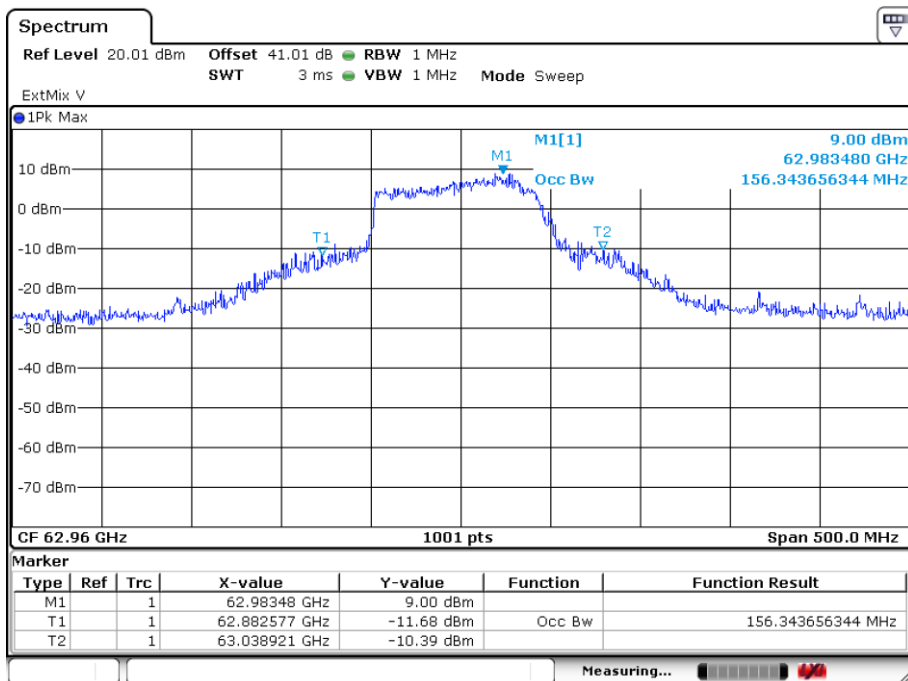
HRP3 + LRP0



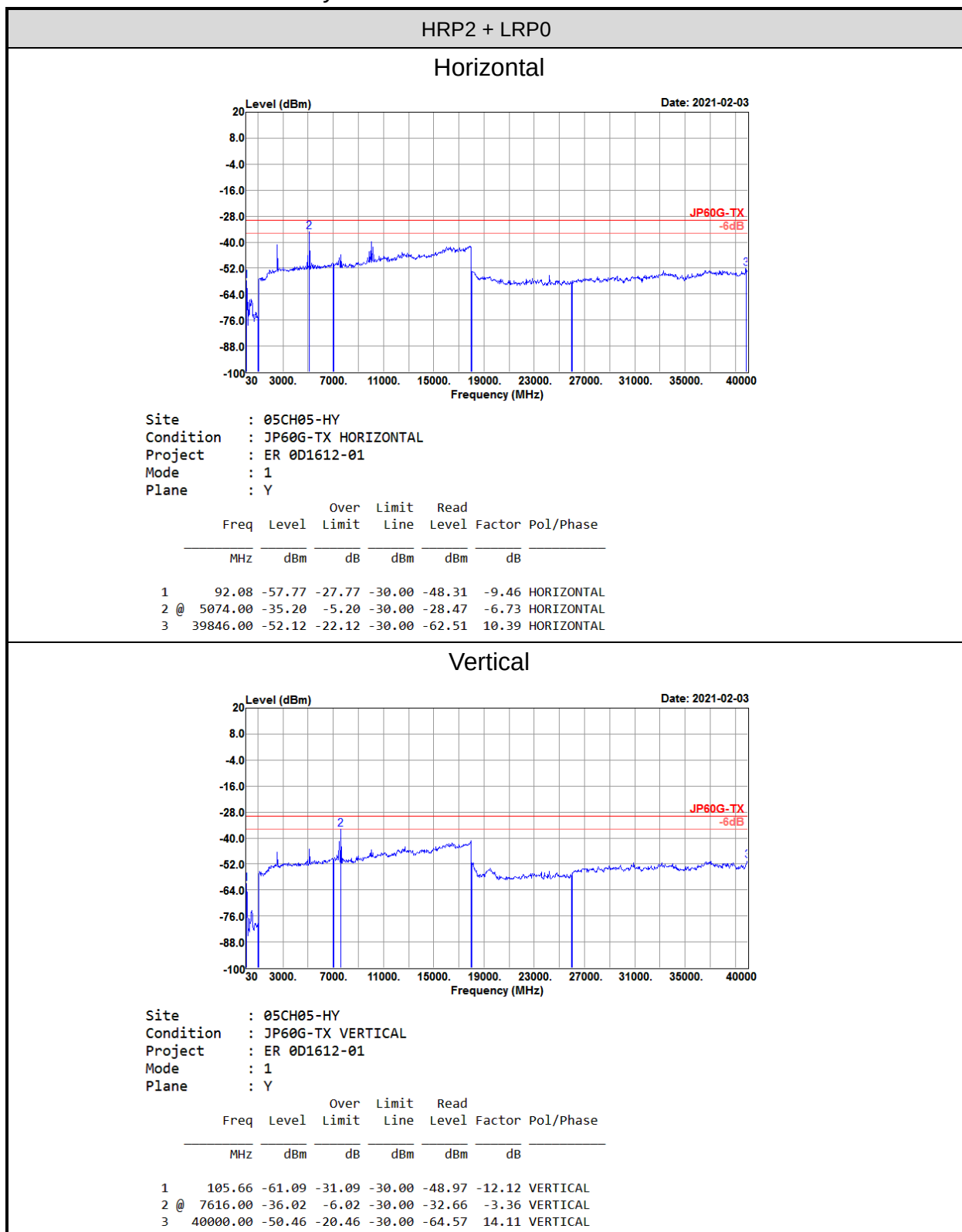
Date: 23.DEC.2020 15:08:22

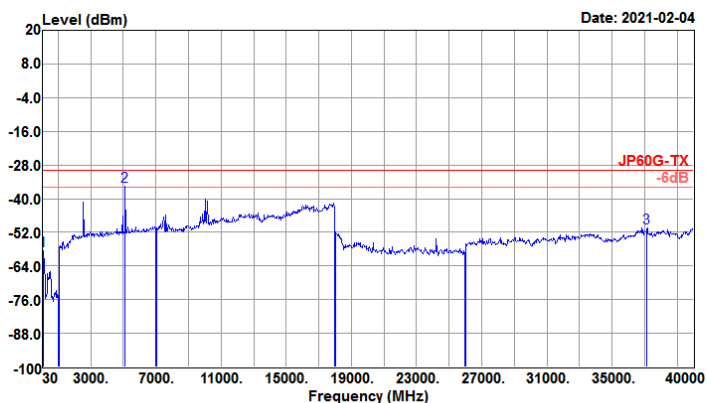


HRP3 + LRP4



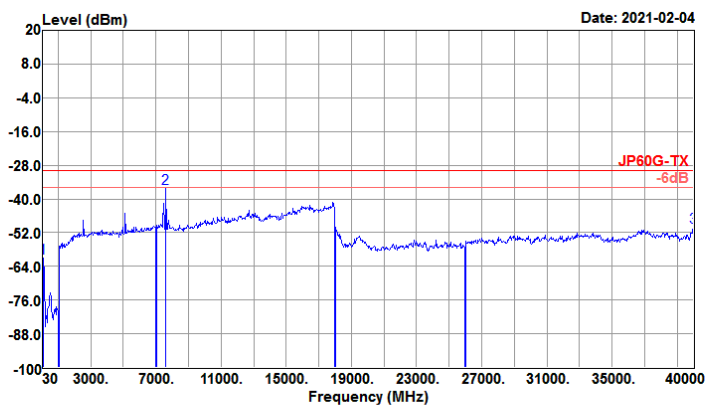
Date: 23.DEC.2020 15:03:51

C.2. Unwanted Emission Intensity


HRP2 + LRP4
Horizontal


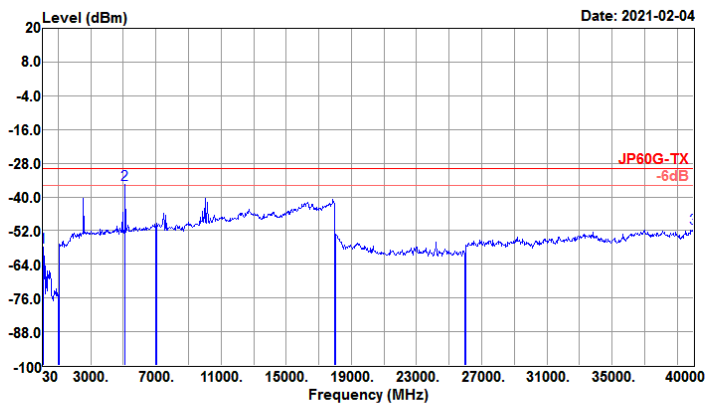
Site : 05CH05-HY
Condition : JP60G-TX HORIZONTAL
Project : ER 0D1612-01
Mode : 3
Plane : Y

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	92.08	-58.56	-28.56	-30.00	-49.10	-9.46	HORIZONTAL
2 @	5074.00	-35.44	-5.44	-30.00	-28.71	-6.73	HORIZONTAL
3	37130.00	-50.29	-20.29	-30.00	-57.89	7.60	HORIZONTAL

Vertical


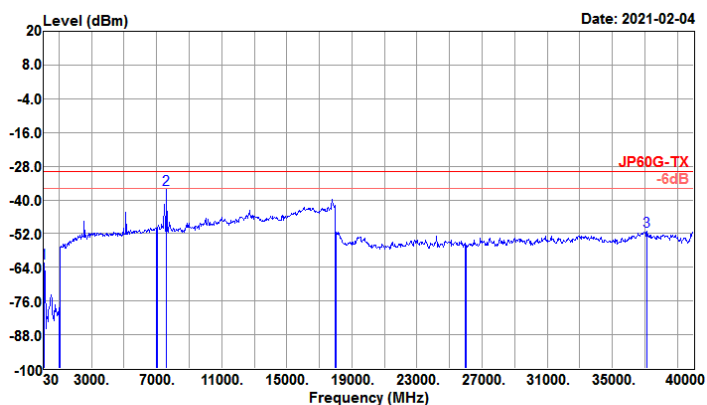
Site : 05CH05-HY
Condition : JP60G-TX VERTICAL
Project : ER 0D1612-01
Mode : 3
Plane : Y

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	104.69	-61.03	-31.03	-30.00	-48.86	-12.17	VERTICAL
2 @	7616.00	-36.33	-6.33	-30.00	-32.97	-3.36	VERTICAL
3	39986.00	-50.05	-20.05	-30.00	-64.08	14.03	VERTICAL

HRP3 + LRP0
Horizontal


Site : 05CH05-HY
 Condition : JP60G-TX HORIZONTAL
 Project : ER 0D1612-01
 Mode : 2
 Plane : Y

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	92.08	-58.03	-28.03	-30.00	-48.57	-9.46	HORIZONTAL
2 @	5074.00	-35.40	-5.40	-30.00	-28.67	-6.73	HORIZONTAL
3	40000.00	-51.25	-21.25	-30.00	-62.22	10.97	HORIZONTAL

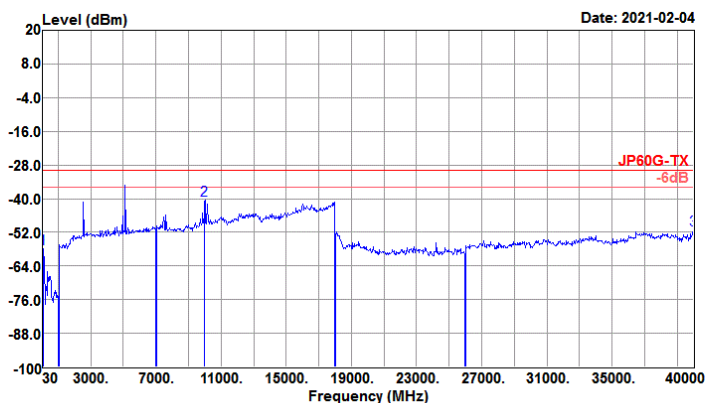
Vertical


Site : 05CH05-HY
 Condition : JP60G-TX VERTICAL
 Project : ER 0D1612-01
 Mode : 2
 Plane : Y

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	105.66	-62.33	-32.33	-30.00	-50.21	-12.12	VERTICAL
2 @	7616.00	-36.27	-6.27	-30.00	-32.91	-3.36	VERTICAL
3	37116.00	-51.16	-21.16	-30.00	-61.91	10.75	VERTICAL

HRP3 + LRP4

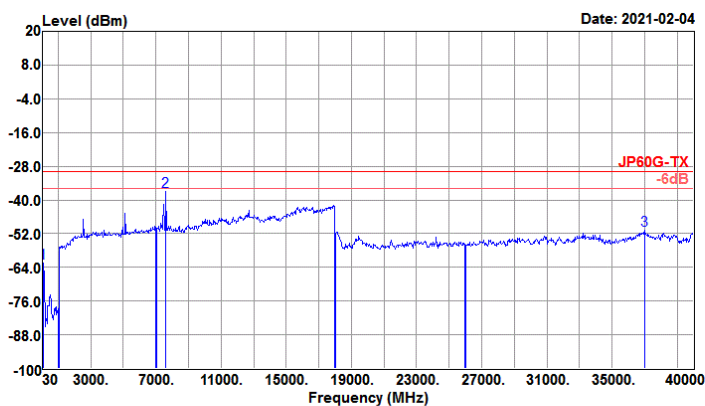
Horizontal



Site : 05CH05-HY
 Condition : JP60G-TX HORIZONTAL
 Project : ER 0D1612-01
 Mode : 4
 Plane : Y

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	92.08	-57.71	-27.71	-30.00	-48.25	-9.46	HORIZONTAL
2 @	9992.00	-40.59	-10.59	-30.00	-39.36	-1.23	HORIZONTAL
3	39986.00	-51.11	-21.11	-30.00	-62.03	10.92	HORIZONTAL

Vertical



Site : 05CH05-HY
 Condition : JP60G-TX VERTICAL
 Project : ER 0D1612-01
 Mode : 4
 Plane : Y

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	93.05	-62.38	-32.38	-30.00	-48.92	-13.46	VERTICAL
2 @	7616.00	-36.92	-6.92	-30.00	-33.56	-3.36	VERTICAL
3	36990.00	-50.79	-20.79	-30.00	-61.88	11.09	VERTICAL

There is no obvious signal found for frequency above 40 GHz, only tabular form is provided.



C.3. Secondarily Radiated Emission Intensity

There is no obvious RF signal found for secondarily radiated emission test.

Only tabular form is provided.

————THE END————