



# FCC RADIO TEST REPORT

**FCC ID** : W2Z-01000014  
**Equipment** : HDMI wireless 60G Extender  
**Brand Name** : FUJIFILM Corporation  
**Model Name** : HDV-W561-1 TX  
**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** : FCC 47 CFR Part 15.255

The product was received on Mar. 17, 2023 and testing was performed from May 28, 2023 to Apr. 22, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures ANSI C63.10-2013 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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**Appendix A. Setup Photographs**



### History of this test report

Report No.	Version	Description	Issue Date
FR331706	01	Initial issue of report	Jul. 07, 2023
FR331706	02	Revise Section 2.4, Section 3.5 and Section 3.6.3 This report is an updated version, replacing the report issued on Jul. 07, 2023.	Jul. 18, 2023



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Limit	Result (PASS/FAIL)	Remark
3.4	§15.255(e)	Emission Bandwidth	None	Pass	-
3.5	§15.255(c)	Peak EIRP & Average EIRP Peak Conducted power	Peak EIRP < 43dBm Average EIRP < 40dBm Conducted power BW_6dB(>100MHz): 500mW(Max)	Pass	-
3.6	§15.255(d)	Transmitter Spurious Emissions	Below 40GHz: §15.209 Above 40GHz: 90 pW/cm <sup>2</sup> @ 3 m	Pass	-
3.7	§15.255(f)	Frequency Stability for Temperature & Voltage	Within 57 ~ 71GHz	Pass	-
4	§15.207	AC Power Conducted Emission	§15.207	Pass	-

Frequency Range	Field Strength Limit	Result
9 kHz – 490 kHz	2400 (uV/m)/F (kHz) at 300 meter distance	Pass
490 kHz – 1.705 MHz	24000 (uV/m)/F (kHz) at 30 meter distance	Pass
1.705 MHz – 30 MHz	30 uV/m at 30 meter distance	Pass
30 MHz – 88 MHz	100 uV/m at 3 meter distance	Pass
88 MHz – 216 MHz	150 uV/m at 3 meter distance	Pass
216 MHz – 960 MHz	200 uV/m at 3 meter distance	Pass
960 MHz – 40 GHz	500 uV/m at 3 meter distance	Pass
40 GHz – 200 GHz	90 pW/cm <sup>2</sup> at 3 meter distance	Pass

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Avis Chuang  
Report Producer: Michelle Chen



# 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 and LRP Channel List	Channel Index 2 LRP: 60.163-60.797 GHz LRP CH0: 60.163 GHz: LRP CH1: 60.321 GHz: LRP CH2: 60.480 GHz: LRP CH3: 60.639 GHz: LRP CH4: 60.797 GHz Channel Index 3 LRP: 62.323-62.957 GHz LRP CH0: 62.323 GHz: LRP CH1: 62.481 GHz: LRP CH2: 62.640 GHz: LRP CH3: 62.799 GHz: LRP CH4: 62.957 GHz
Middle-rate PHY (MRP) Band	Channel Index 2 MRP: 60.480 GHz Channel Index 3 MRP: 62.640 GHz
High-rate PHY (HRP) Band	Channel Index 2 HRP: 60.480 GHz Channel Index 3 HRP: 62.640 GHz

### 1.1.2 Modulation

Modulation
The LRP modulation is BPSK. The MRP modulation is QPSK. The HRP modulation is QPSK, 16-QAM.

### 1.1.3 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Phase Array Antenna	N/A	18

**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> ):	
	AV Power (dBm)	Peak Power (dBm)
60.797	7.13	28.90

Worst Power Levels for HRP		
Applicable power levels	<input type="checkbox"/> Conducted <input checked="" type="checkbox"/> EIRP	
Frequency (GHz)	Highest (P <sub>high</sub> ): (dBm)	
	AV Power (dBm)	Peak Power (dBm)
60.48	7.19	28.94

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**

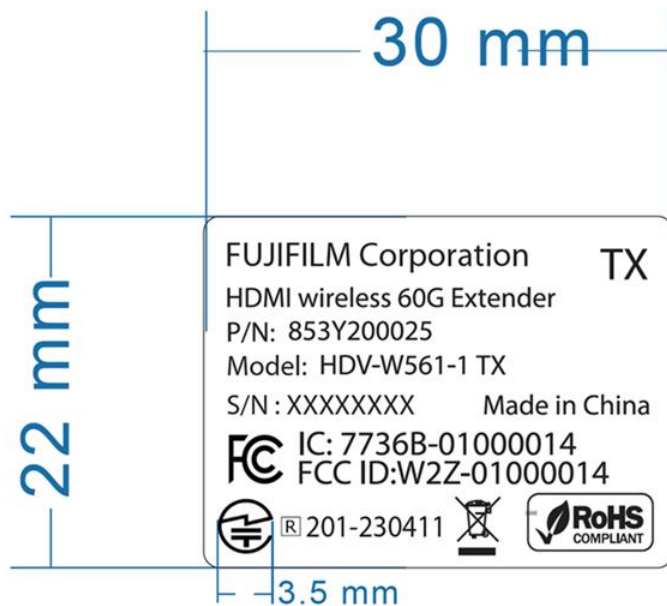
Intended Operation
<input checked="" type="checkbox"/> Indoor
<input type="checkbox"/> Outdoor (except outdoor fixed Point to Point)
<input type="checkbox"/> Outdoor fixed Point to Point

**Note:** The above information was declared by manufacturer.

**1.1.8 Duty Cycle**

Mode	Duty Cycle	Duty Cycle Factor (dB)
HRP	0.669 %	21.75
LRP	0.667 %	21.76

**1.1.9 EUT Label Information**



**Note:** The above information was declared by manufacturer.

**1.2 Modification of EUT**

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



### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> CO05-HY (TAF Code: 1190)
<b>Remark</b>	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

**Note:** The test site complies with ANSI C63.4 2014 requirement.

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH11-HY, 03CH18-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

### 1.4 Applied Standards

- ♦ FCC 47 CFR Part 2, 15.255
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.





## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency and Channel

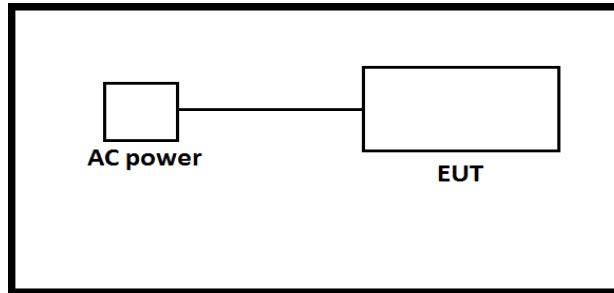
Frequency Band	Channel	Freq. (GHz)
Channel Index 2 60.163-60.797 GHz	0	60.163
	1	60.321
	2	60.480
	3	60.639
	4	60.797
Channel Index 3 62.323-62.957 GHz	0	62.323
	1	62.481
	2	62.640
	3	62.799
	4	62.957

### 2.2 Test Mode

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

Test Configuration		
Mode 1	60G Tx (HRP)_Channel Index 2_CH2	60.480GHz
Mode 2	60G Tx (HRP)_Channel Index 3_CH2	62.640GHz
Mode 3	60G Tx (LRP)_Channel Index 2_CH0	60.163GHz
Mode 4	60G Tx (LRP)_Channel Index 2_CH4	60.797GHz
Mode 5	60G Tx (LRP)_Channel Index 3_CH4	62.957GHz

### 2.3 Connection Diagram of Test System



### 2.4 Far Field Condition for Frequency above 18GHz

Horn Antenna	Frequency (GHz)	Antenna Dimension A (mm)	Wavelength (λ) (m)	Far field R (m) $\geq 2A^2 / \lambda$	Measurement Distance (D) (m)
BBHA 9170	18	60	0.0167	0.43	1
	40	60	0.0075	0.96	
QWH-UPRR00	40	48	0.0075	0.61	0.87
	57	48	0.0053	0.87	
QWH-VPRR00	57	38	0.0053	0.54	0.63
	65	38	0.0046	0.62	
QWH-EPRR00	60	31	0.0050	0.38	0.6
	90	31	0.0033	0.6	
QWH-FPRR00	90	21	0.0033	0.26	0.43
	140	21	0.0021	0.42	
QWH-GPRR00	140	14	0.0021	0.18	0.27
	200	14	0.0015	0.26	

Note 1: The measurement distance may be far than the measurement distance above.

Note 2: λ is the wavelength of the emission under investigation [300/fMHz], in m.

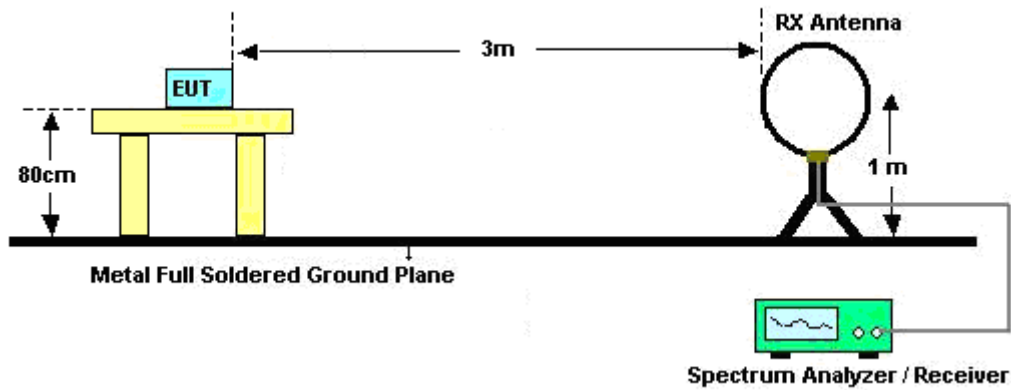
### 3 Radiated Test Items

#### 3.1 Measuring Instruments

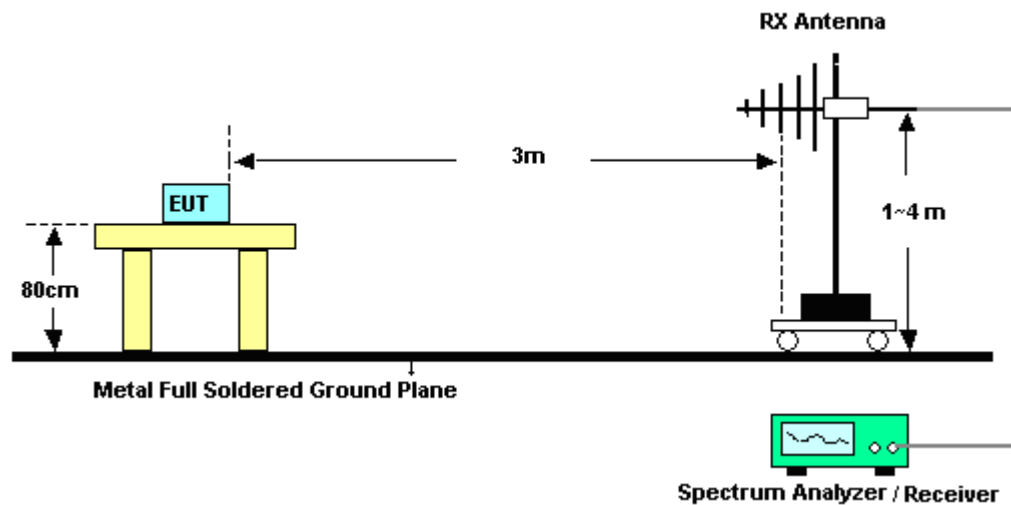
See list of measuring instruments of this test report.

#### 3.2 Test Setup

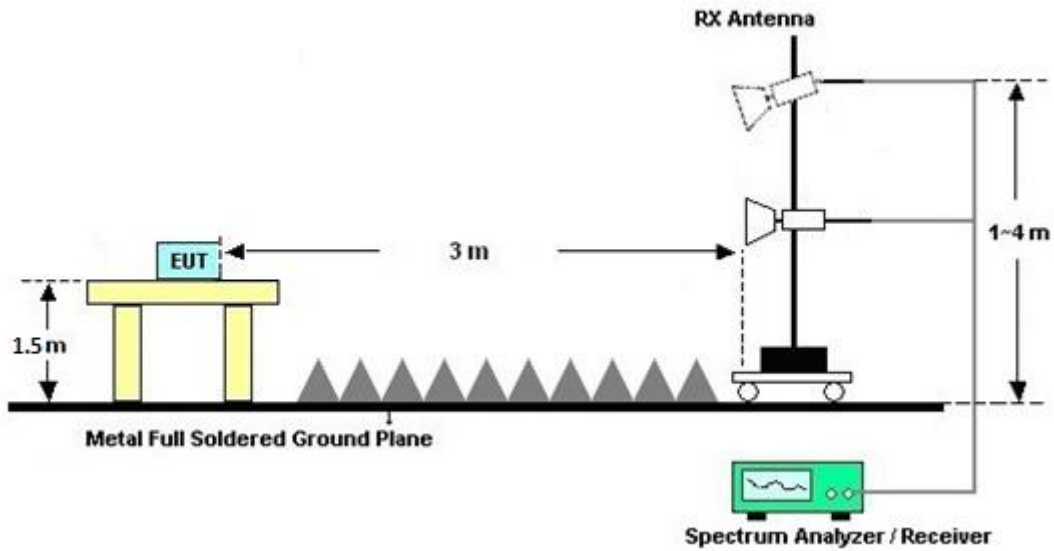
For radiated emissions from 9kHz to 30MHz



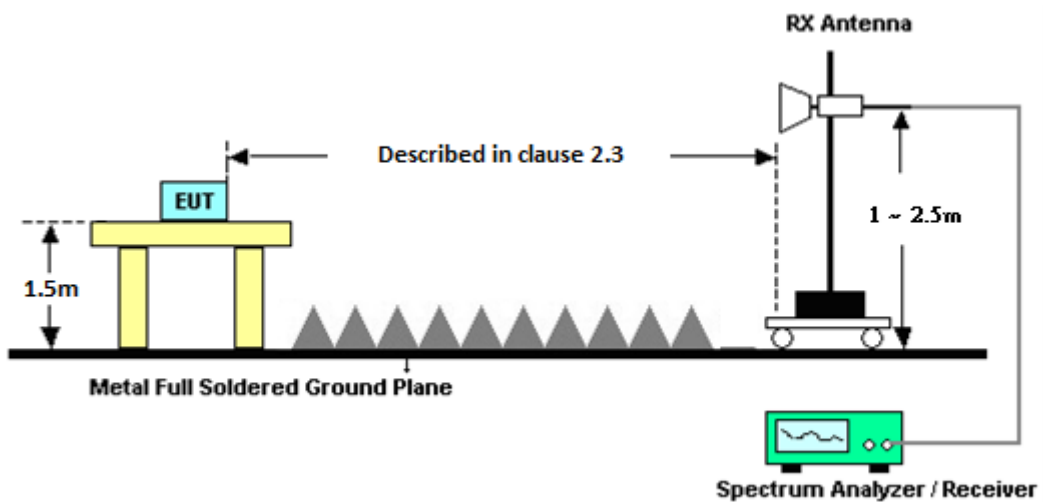
For radiated emissions from 30MHz to 1GHz



For radiated emissions 1GHz to 18GHz



For radiated emissions above 18GHz



### 3.3 Test Result of Radiated Test

Please refer to Clause 3.6.



## **3.4 Emission Bandwidth**

### **3.4.1 Description of Emission Bandwidth Measurement**

99% Occupied Bandwidth and 6dB Bandwidth are for reporting only.

Limit for Emission Bandwidth: Per Part15.215(C), the device shall operate in the 57 - 71 GHz band.

The emission bandwidth (EBW) is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least the specified amount below the maximum level of the modulated carrier.

### **3.4.2 Measuring Instruments**

See list of measuring equipment of this test report.

### **3.4.3 Test Procedures**

The testing follows ANSI C63.10-2013 Section 9.3.



3.4.4 Test Results

< Mode 1: 60G Tx (HRP)\_Channel Index 2\_CH2\_60.480GHz >

Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng		
99% Occupied Bandwidth (MHz)		Limit (GHz)	
191.77		Report Only	
6dB Bandwidth (MHz)		Limit (GHz)	
87.41		Report Only	
<b>6dB Bandwidth Measurement</b>			
Bandwidth (MHz)	Low Frequency (GHz)	High Frequency (GHz)	Result
87.41	60.437	60.524	Within band

< Mode 2: 60G Tx (HRP)\_Channel Index 3\_CH2\_62.640GHz >

Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng		
99% Occupied Bandwidth (MHz)		Limit (GHz)	
187.35		Report Only	
6dB Bandwidth (MHz)		Limit (GHz)	
91.41		Report Only	
<b>6dB Bandwidth Measurement</b>			
Bandwidth (MHz)	Low Frequency (GHz)	High Frequency (GHz)	Result
91.41	62.594	62.685	Within band



< Mode 3: 60G Tx (LRP)\_Channel Index 2\_CH0\_60.163GHz >

Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng		
99% Occupied Bandwidth (MHz)	Limit (GHz)		
184.67	Report Only		
6dB Bandwidth (MHz)	Limit (GHz)		
90.91	Report Only		
6dB Bandwidth Measurement			
Bandwidth (MHz)	Low Frequency (GHz)	High Frequency (GHz)	Result
90.91	60.118	60.208	Within band

< Mode 4: 60G Tx (LRP)\_Channel Index 2\_CH4\_60.797GHz >

Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng		
99% Occupied Bandwidth (MHz)	Limit (GHz)		
206.93	Report Only		
6dB Bandwidth (MHz)	Limit (GHz)		
91.91	Report Only		
6dB Bandwidth Measurement			
Bandwidth (MHz)	Low Frequency (GHz)	High Frequency (GHz)	Result
91.91	60.751	60.843	Within band

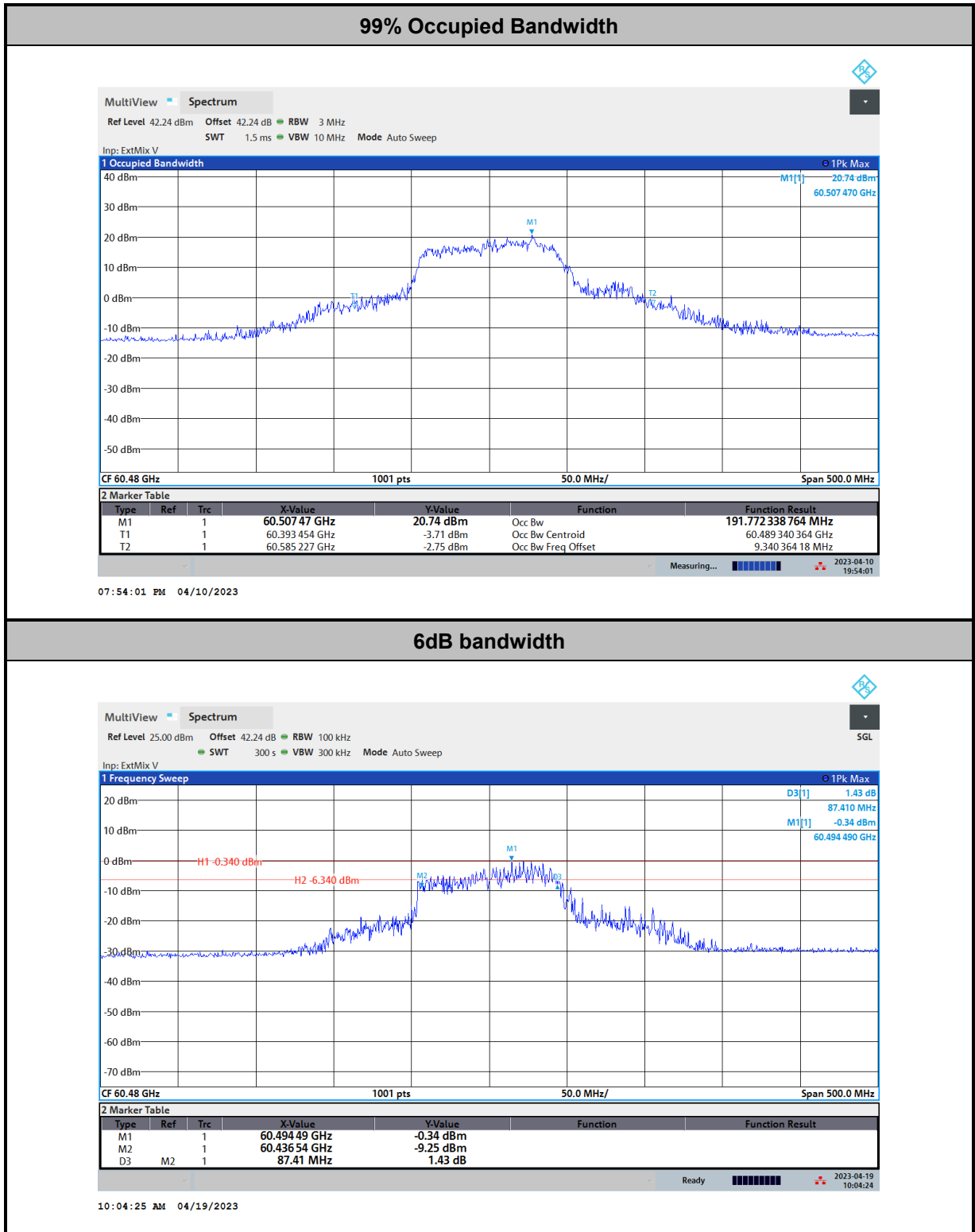
< Mode 5: 60G Tx (LRP)\_Channel Index 3\_CH4\_62.957GHz >

Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng		
99% Occupied Bandwidth (MHz)	Limit (GHz)		
186.75	Report Only		
6dB Bandwidth (MHz)	Limit (GHz)		
91.41	Report Only		
6dB Bandwidth Measurement			
Bandwidth (MHz)	Low Frequency (GHz)	High Frequency (GHz)	Result
91.41	62.911	63.002	Within band



3.4.5 Test Plots

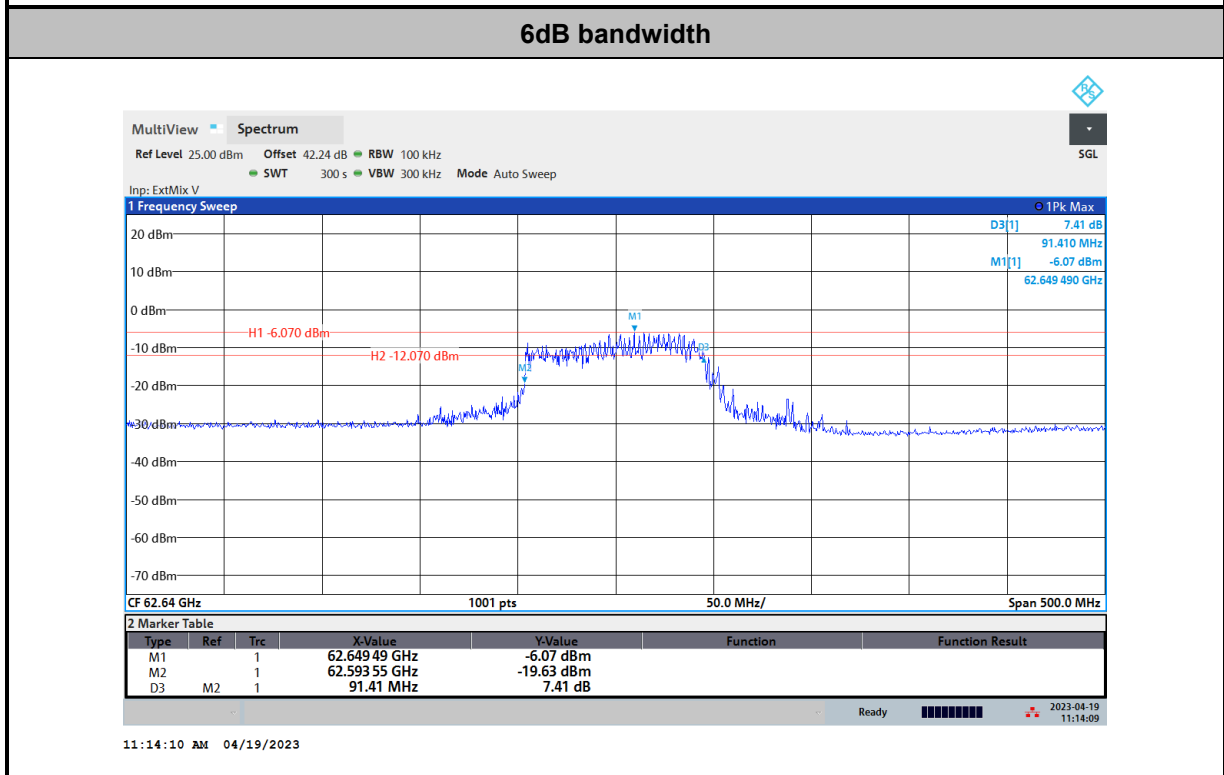
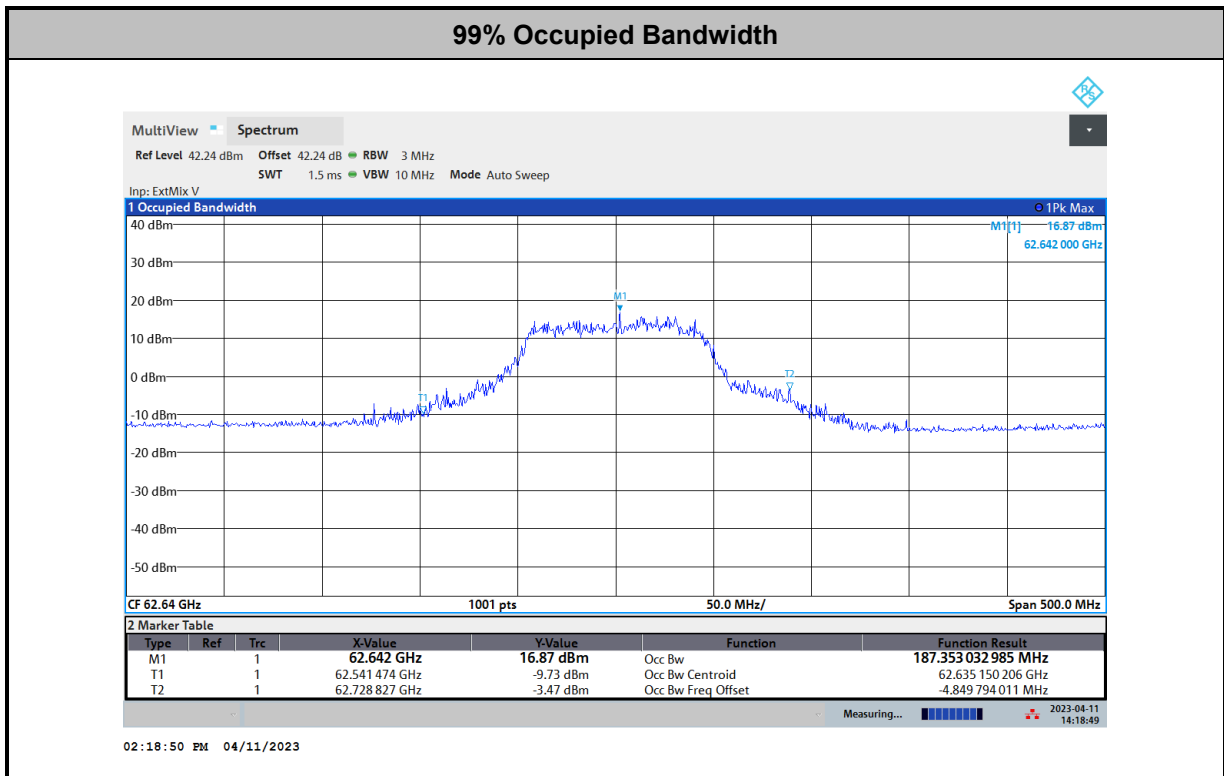
< Mode 1: 60G Tx (HRP)\_Channel Index 2\_CH2\_60.480GHz >





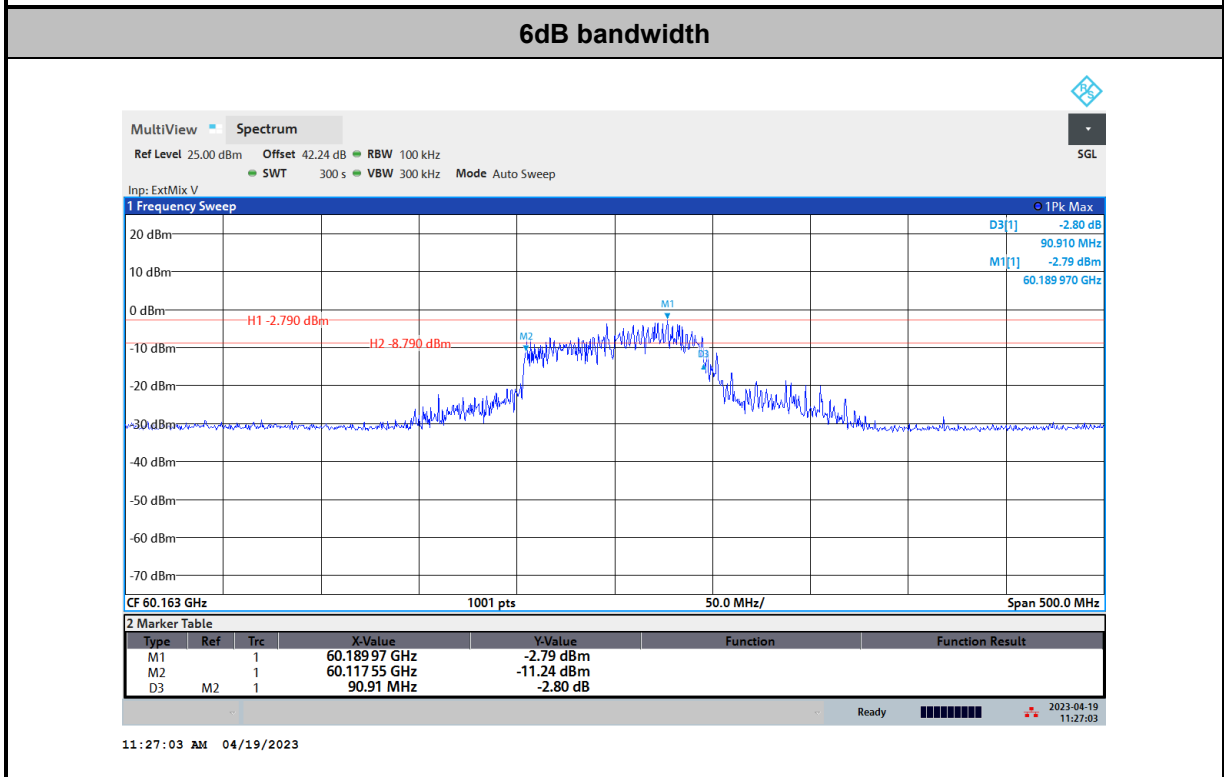
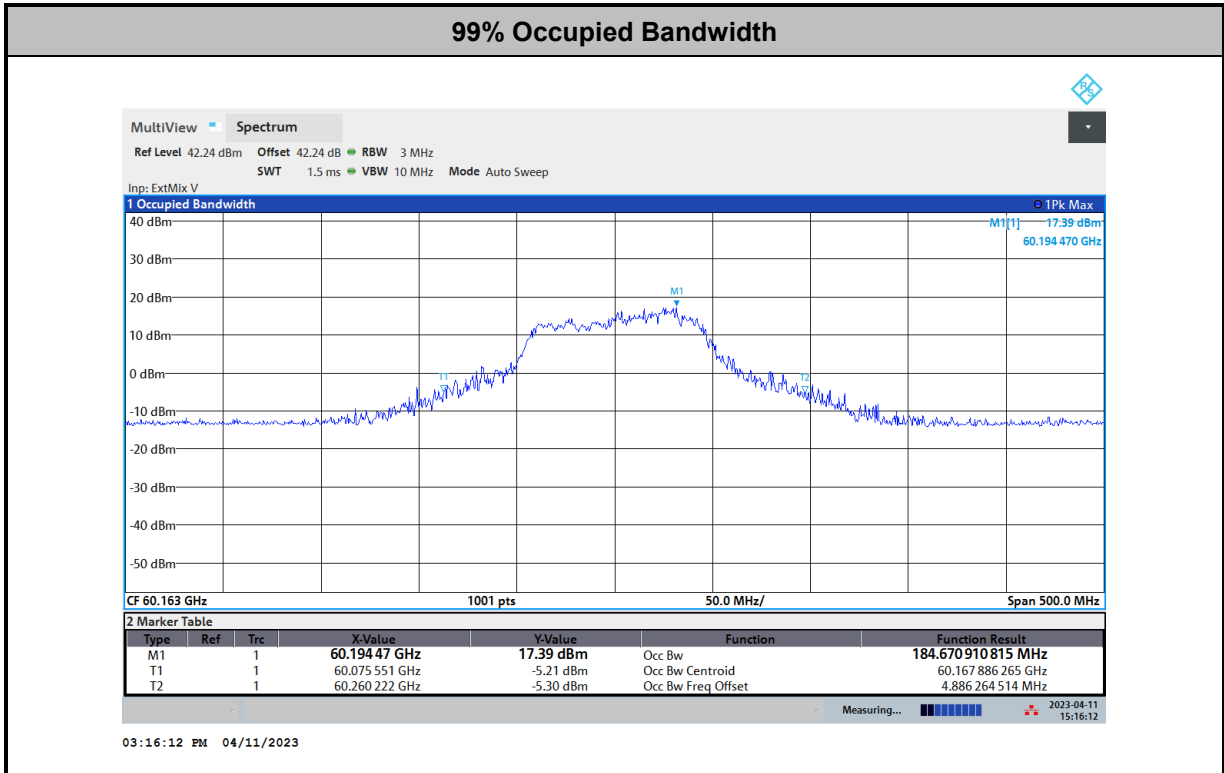


< Mode 2: 60G Tx (HRP)\_Channel Index 3\_CH2\_62.640GHz >



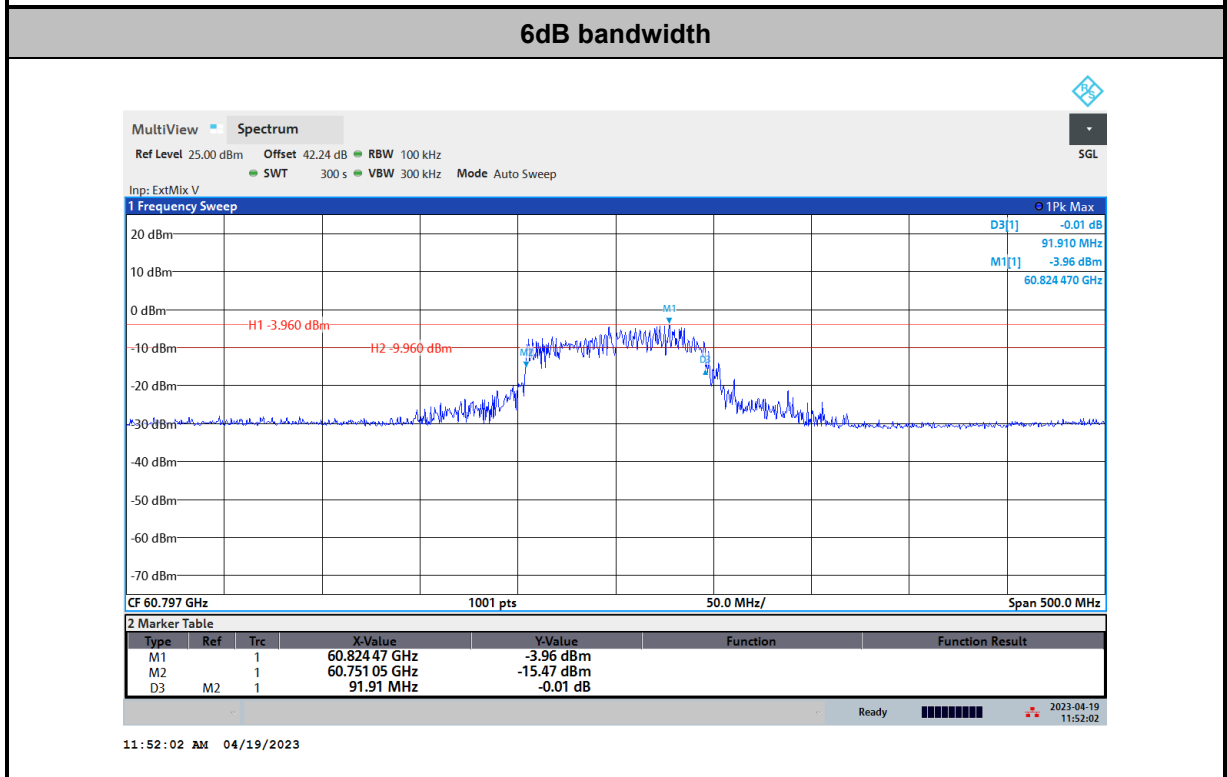
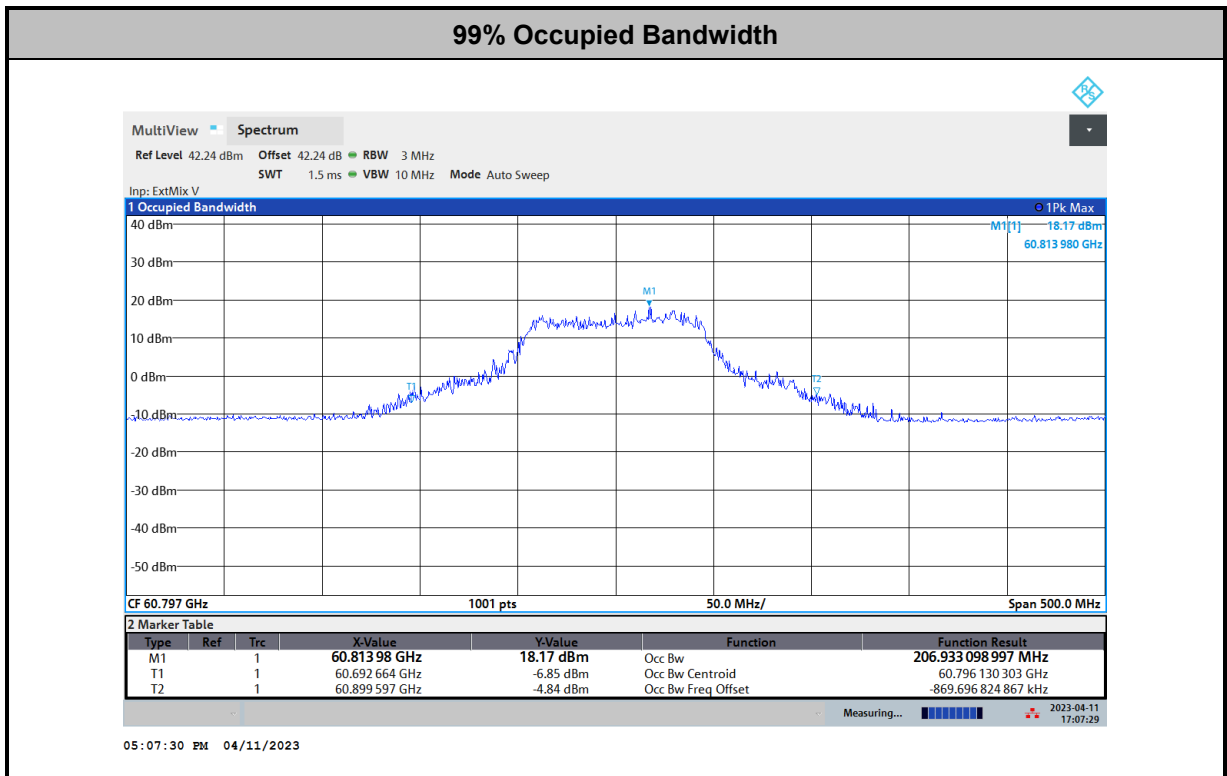


< Mode 3: 60G Tx (LRP)\_Channel Index 2\_CH0\_60.163GHz >



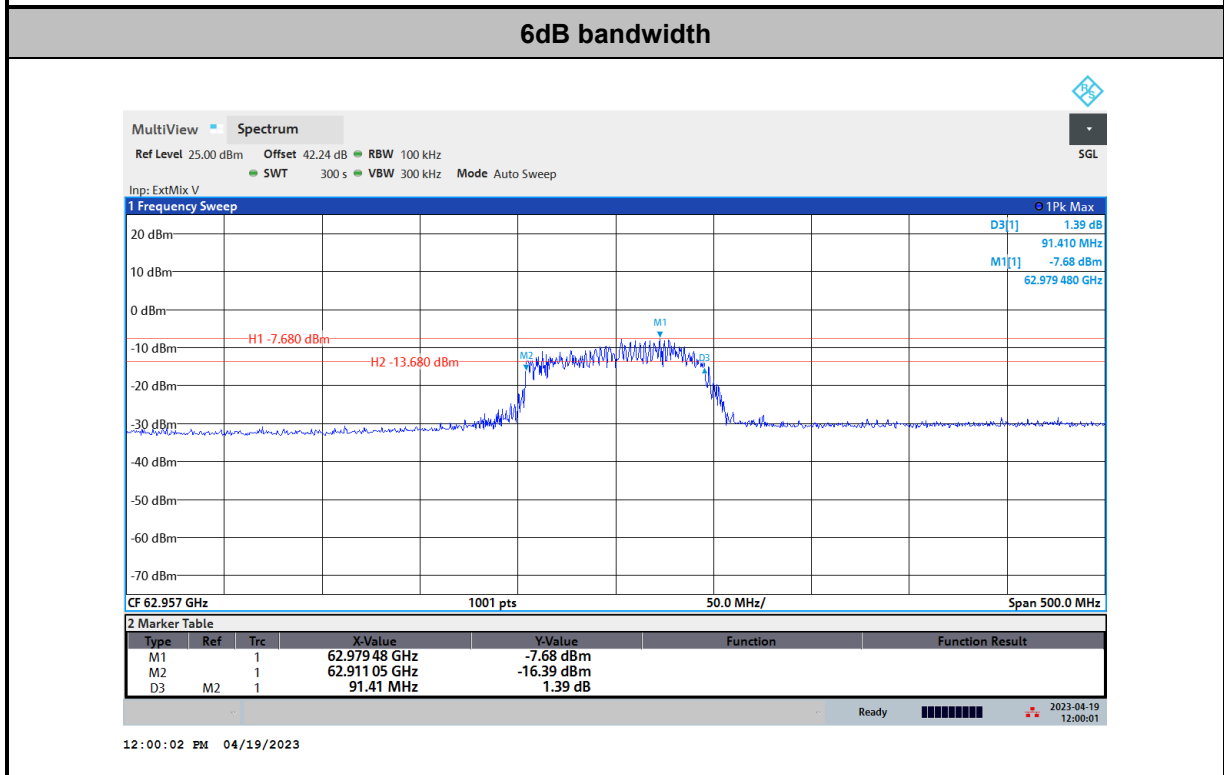
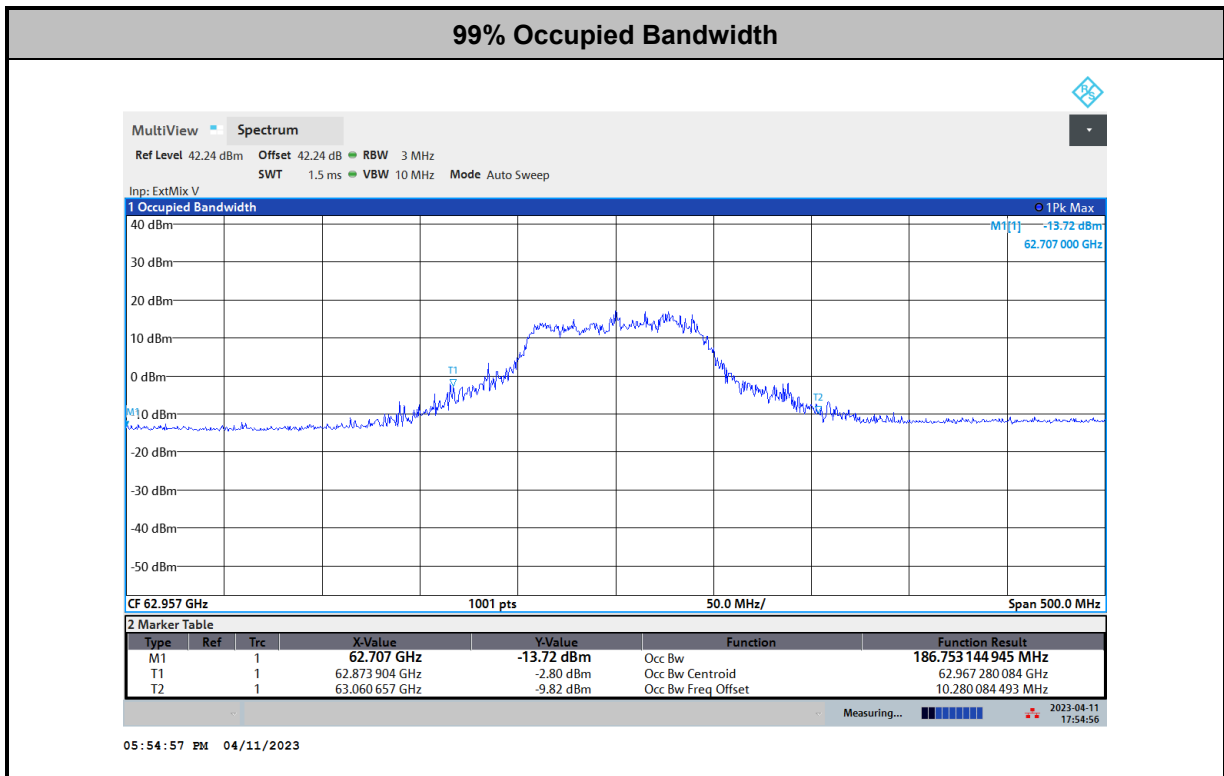


< Mode 4: 60G Tx (LRP)\_Channel Index 2\_CH4\_60.797GHz >





< Mode 5: 60G Tx (LRP)\_Channel Index 3\_CH4\_62.957GHz >





### 3.5 EIRP Power Measurement

#### 3.5.1 Test Limit

Regulation	Product Type	Peak EIRP Power (dBm)	Average EIRP Power (dBm)
FCC 15.255 (c) (1)	Products other than fixed field disturbance sensors and short-range devices for interactive motion sensing	43	40

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

#### 3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.5.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013 clause 9.4, 9.5 and 9.11



3.5.4 Test Results

< Mode 1: 60G Tx (HRP)\_Channel Index 2\_CH2\_60.480GHz >

Temperature		21.1 ~ 23.5°C		Relative Humidity		61.4 ~ 65.3%		
Test Engineer		Eric Jeng						
Peak EIRP Power Measurement								
Frequency (GHz)	Measure Dist. (m)	Measure Ant Gain (dBi)	DSO (mV)	Power measured (dBm)	Emeas (dBUV/m)	EIRP (dBm)	EIRP Limit (dBm) Peak	Result
60.48	0.63	22.4	418.43	-12.84	137.65	28.94	43	PASS

Average EIRP Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Duty factor (dB)	Average EIRP (dBm)	Limit (dBm)	Result
60.48	28.94	21.75	7.19	40	PASS

Note: Average EIRP Power (dBm) = Peak EIRP power (dBm) - 10\*log(1/duty cycle), where duty cycle = 0.669%.

Peak Conducted Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Antenna gain(dBi)	Conducted power (dBm)	Limit (dBm)	Result
60.48	28.94	18	10.94	26.41	PASS

Note: Peak conducted power limit = 500mW x (BW/100) = 26.41 dBm due to 6dB BW < 100MHz.



< Mode 2: 60G Tx (HRP)\_Channel Index 3\_CH2\_62.640GHz >

Temperature		21.1 ~ 23.5°C		Relative Humidity		61.4 ~ 65.3%		
Test Engineer		Eric Jeng						
Peak EIRP Power Measurement								
Frequency (GHz)	Measure Dist. (m)	Measure Ant Gain (dBi)	DSO (mV)	Power measured (dBm)	Emeas (dBuV/m)	EIRP (dBm)	EIRP Limit (dBm) Peak	Result
62.64	0.63	22.4	386.81	-13.72	137.075	28.36	43	PASS

Average EIRP Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Duty factor (dB)	Average EIRP (dBm)	Limit (dBm)	Result
62.64	28.36	21.75	6.61	40	PASS

Note: Average EIRP Power (dBm) = Peak EIRP power (dBm) - 10\*log(1/duty cycle), where duty cycle = 0.669%.

Peak Conducted Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Antenna gain(dBi)	Conducted power (dBm)	Limit (dBm)	Result
62.64	28.36	18	10.36	26.6	PASS

Note: Peak conducted power limit = 500mW x (BW/100) = 26.6 dBm due to 6dB BW < 100MHz.



< Mode 3: 60G Tx (LRP)\_Channel Index 2\_CH0\_60.163GHz >

Temperature		21.1 ~ 23.5°C		Relative Humidity		61.4 ~ 65.3%		
Test Engineer		Eric Jeng						
Peak EIRP Power Measurement								
Frequency (GHz)	Measure Dist. (m)	Measure Ant Gain (dBi)	DSO (mV)	Power measured (dBm)	Emeas (dBuV/m)	EIRP (dBm)	EIRP Limit (dBm) Peak	Result
60.163	0.63	22.4	406.58	-13.03	137.414	28.7	43	PASS

Average EIRP Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Duty factor (dB)	Average EIRP (dBm)	Limit (dBm)	Result
60.163	28.7	21.76	6.94	40	PASS

Note: Average EIRP Power (dBm) = Peak EIRP power (dBm) - 10\*log(1/duty cycle), where duty cycle = 0.667%.

Peak Conducted Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Antenna gain(dBi)	Conducted power (dBm)	Limit (dBm)	Result
60.163	28.7	18	10.7	26.58	PASS

Note: Peak conducted power limit = 500mW x (BW/100) = 26.58 dBm due to 6dB BW < 100MHz.





< Mode 4: 60G Tx (LRP)\_Channel Index 2\_CH4\_60.797GHz >

Temperature		21.1 ~ 23.5°C		Relative Humidity		61.4 ~ 65.3%		
Test Engineer		Eric Jeng						
Peak EIRP Power Measurement								
Frequency (GHz)	Measure Dist. (m)	Measure Ant Gain (dBi)	DSO (mV)	Power measured (dBm)	Emeas (dBuV/m)	EIRP (dBm)	EIRP Limit (dBm) Peak	Result
60.797	0.63	22.4	414.48	-12.92	137.615	28.9	43	PASS

Average EIRP Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Duty factor (dB)	Average EIRP (dBm)	Limit (dBm)	Result
60.797	28.9	21.77	7.13	40	PASS

Note: Average EIRP Power (dBm) = Peak EIRP power (dBm) - 10\*log(1/duty cycle), where duty cycle = 0.666%.

Peak Conducted Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Antenna gain(dBi)	Conducted power (dBm)	Limit (dBm)	Result
60.797	28.9	18	10.9	26.62	PASS

Note: Peak conducted power limit = 500mW x (BW/100) = 26.62 dBm due to 6dB BW < 100MHz.



< Mode 5: 60G Tx (LRP)\_Channel Index 3\_CH4\_62.957GHz >

Temperature		21.1 ~ 23.5°C		Relative Humidity		61.4 ~ 65.3%		
Test Engineer		Eric Jeng						
Peak EIRP Power Measurement								
Frequency (GHz)	Measure Dist. (m)	Measure Ant Gain (dBi)	DSO (mV)	Power measured (dBm)	Emeas (dBuV/m)	EIRP (dBm)	EIRP Limit (dBm) Peak	Result
62.957	0.63	22.4	315.67	-18.51	132.328	23.62	43	PASS

Average EIRP Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Duty factor (dB)	Average EIRP (dBm)	Limit (dBm)	Result
62.957	23.62	21.76	1.86	40	PASS

Note: Average EIRP Power (dBm) = Peak EIRP power (dBm) - 10\*log(1/duty cycle), where duty cycle = 0.667%.

Peak Conducted Power Measurement					
Frequency (GHz)	Peak EIRP (dBm)	Antenna gain(dBi)	Conducted power (dBm)	Limit (dBm)	Result
62.957	23.62	18	5.62	26.6	PASS

Note: Peak conducted power limit = 500mW x (BW/100) = 26.6 dBm due to 6dB BW < 100MHz.



For radiated emissions, calculate the field strength (E) in dBμV/meter.

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

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.

$$EIRP = E\text{-meas} + 20 \cdot \log(d\text{-meas}) - 104.7$$

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: The procedure of ANSI C63.10-2013 9.11(e) was used. EUT was replaced with mm-wave signal source and variable attenuator is tuned so that the DSO indicates the same reading which represent for EUT's Peak EIRP power.

NOTE 2: Average EIRP Power (dBm) = Peak EIRP power (dBm) - 10\*log(1/duty cycle)

NOTE 3: Conducted Power (dBm) = Peak EIRP power (dBm) - antenna gain (dBi)

Calculation example:

$$E(\text{dBuV/m}) = 126.8 - 20 \cdot \log(\lambda) + P - G,$$

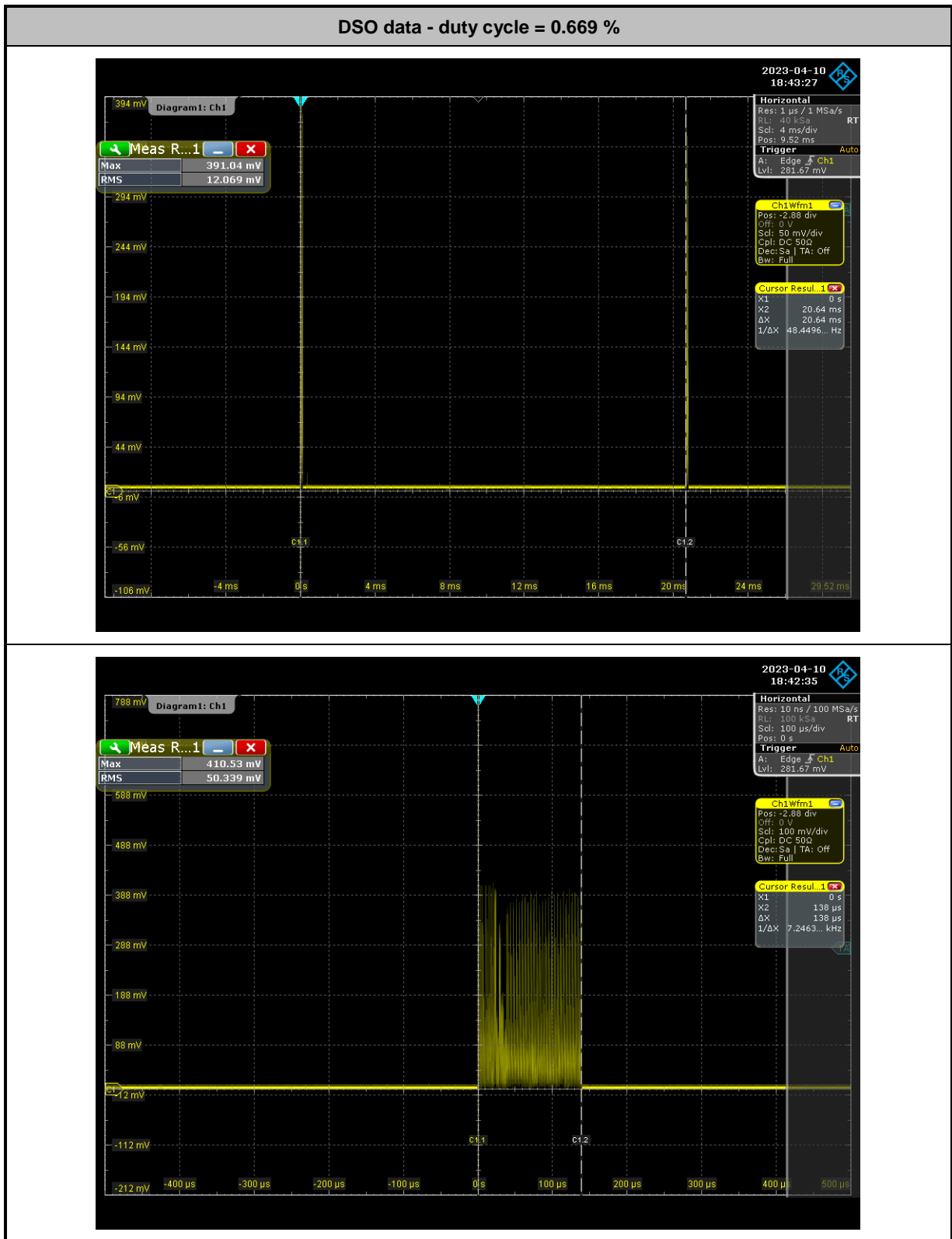
where f=60.48GHz, P= -12.84dBm, G= 22.4dBi, then E = 137.65 (dBuV/m)

$$EIRP (\text{dBm}) = E(\text{dBuV/m}) + 20 \cdot \log(d) - 104.7 = 137.65 (\text{dBuV/m}) + 20 \cdot \log(d=0.63) - 104.7 = 28.94\text{dBm}$$



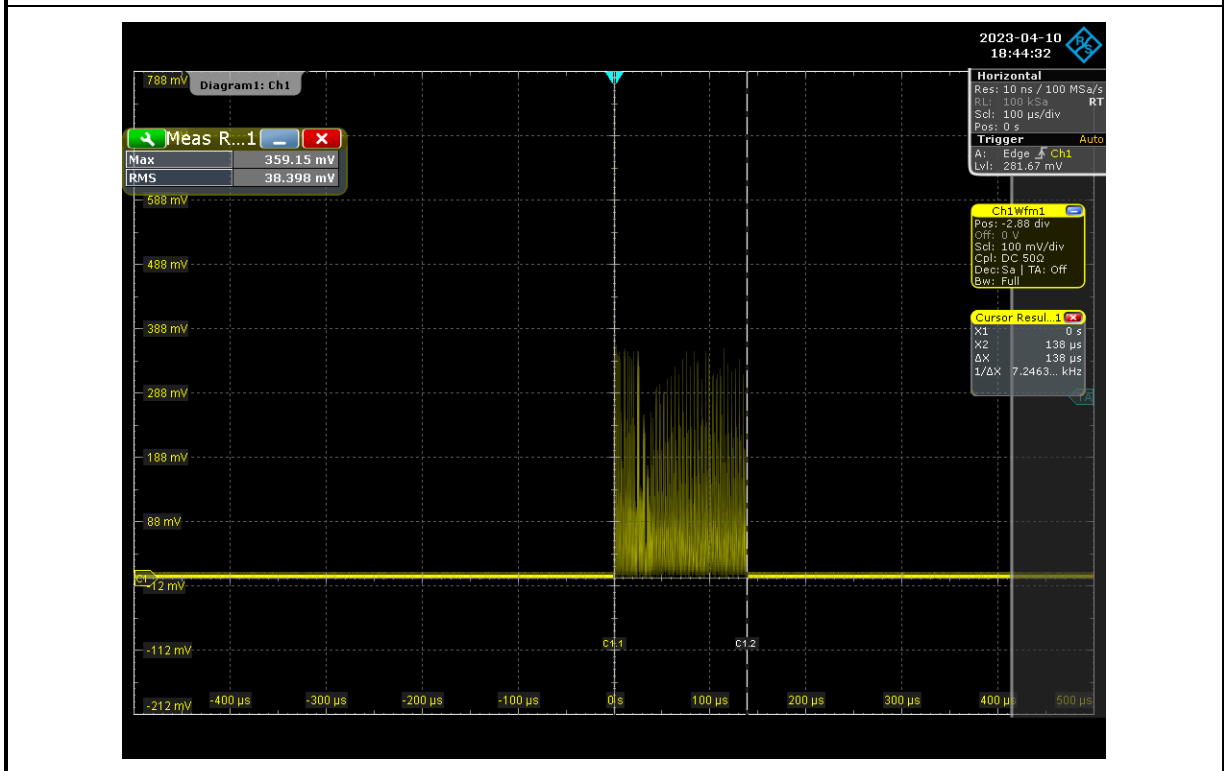
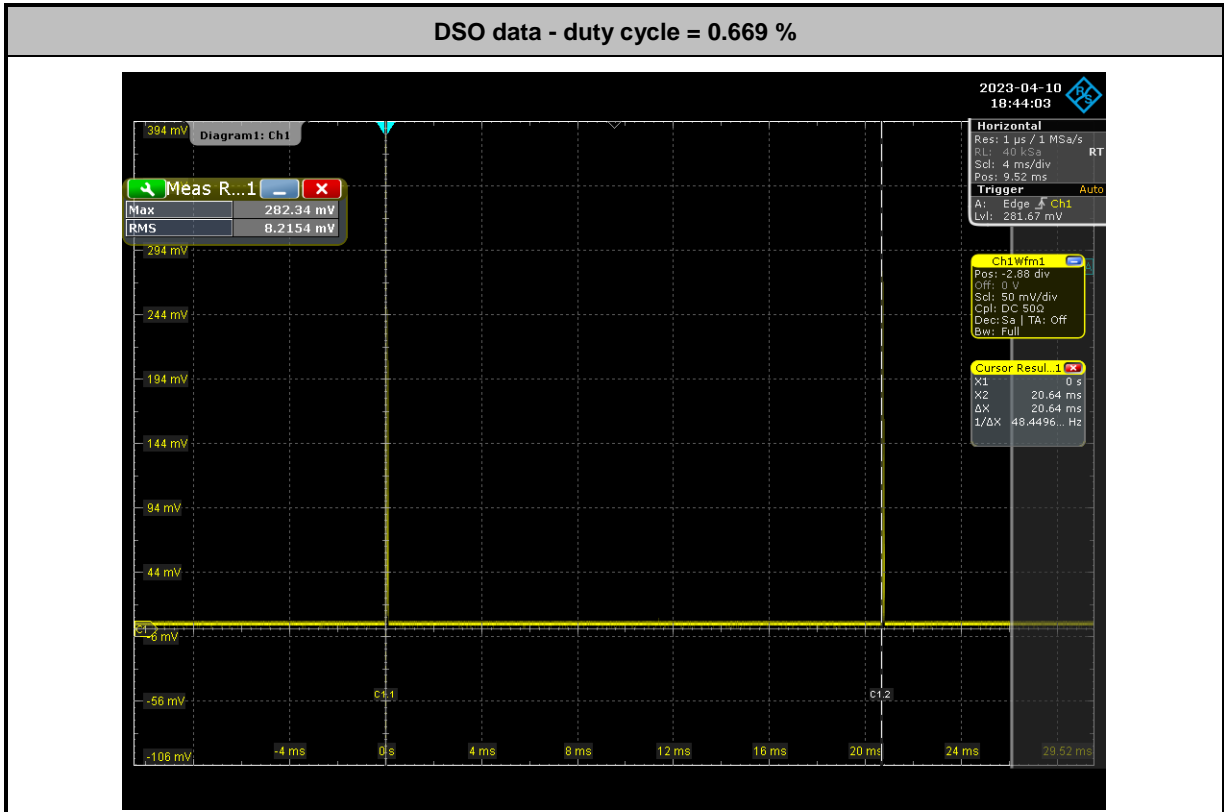
### 3.5.5 Test Plots

< Mode 1: 60G Tx (HRP)\_Channel Index 2\_CH2\_60.480GHz >



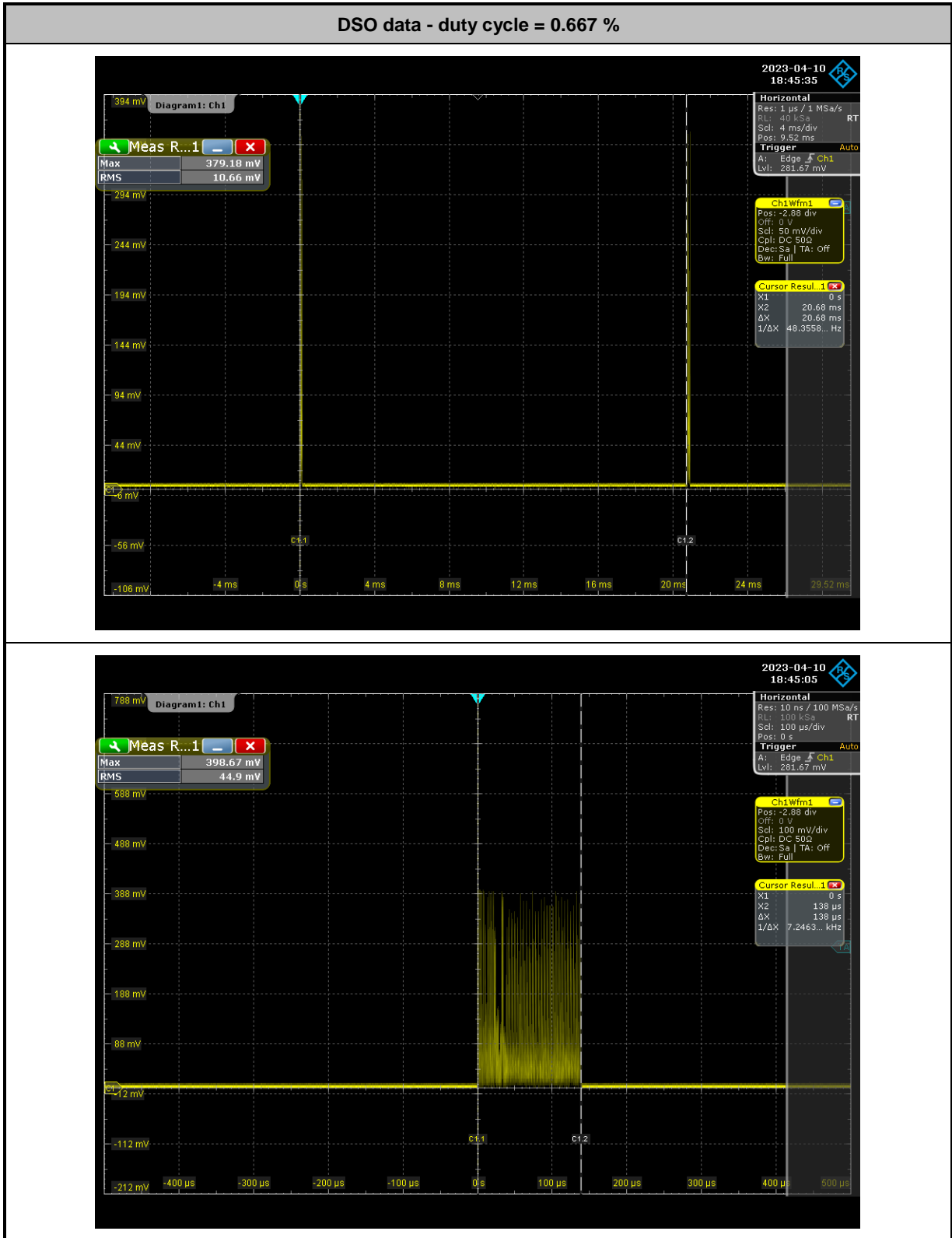


< Mode 2: 60G Tx (HRP)\_Channel Index 3\_CH2\_62.640GHz >



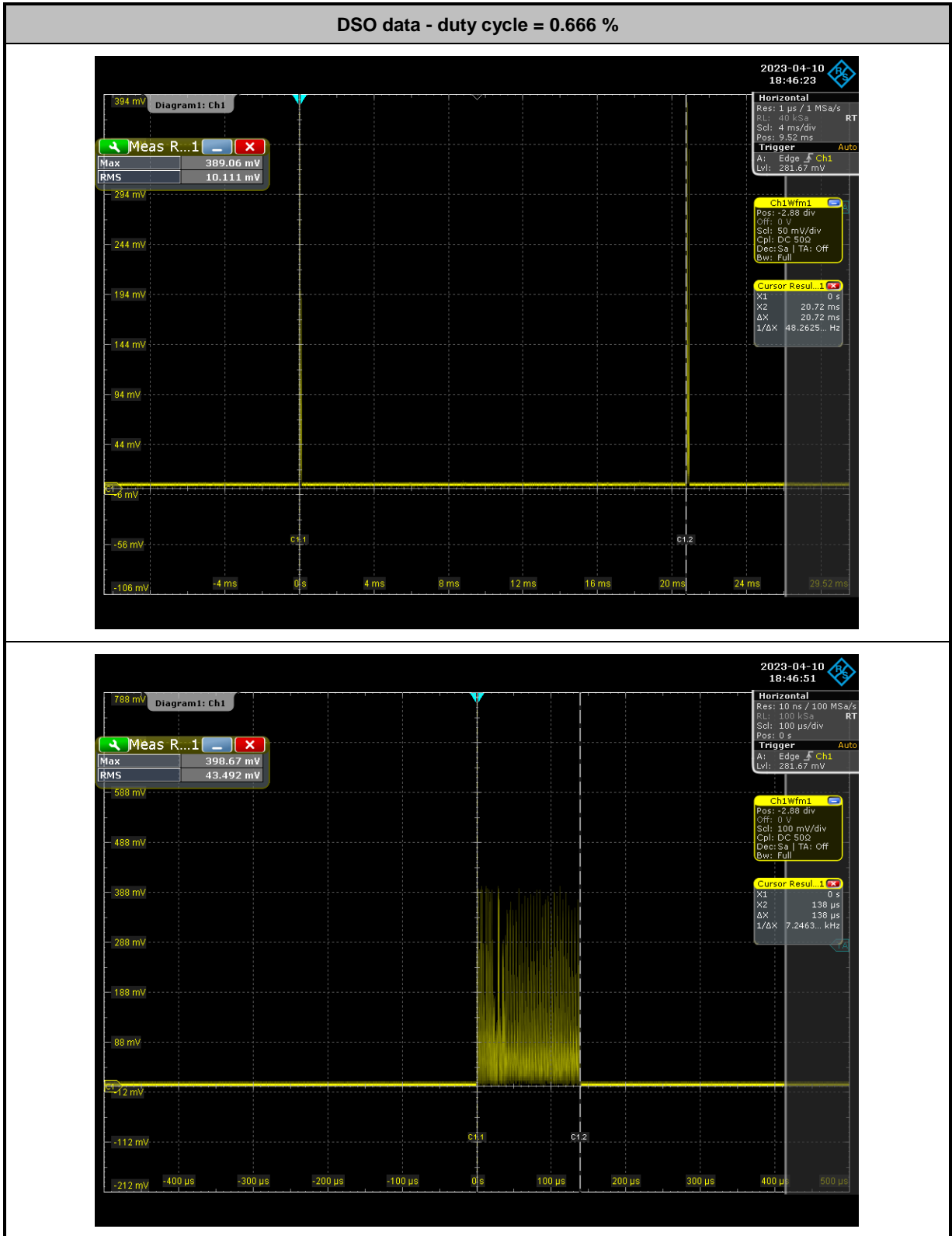


< Mode 3: 60G Tx (LRP)\_Channel Index 2\_CH0\_60.163GHz >



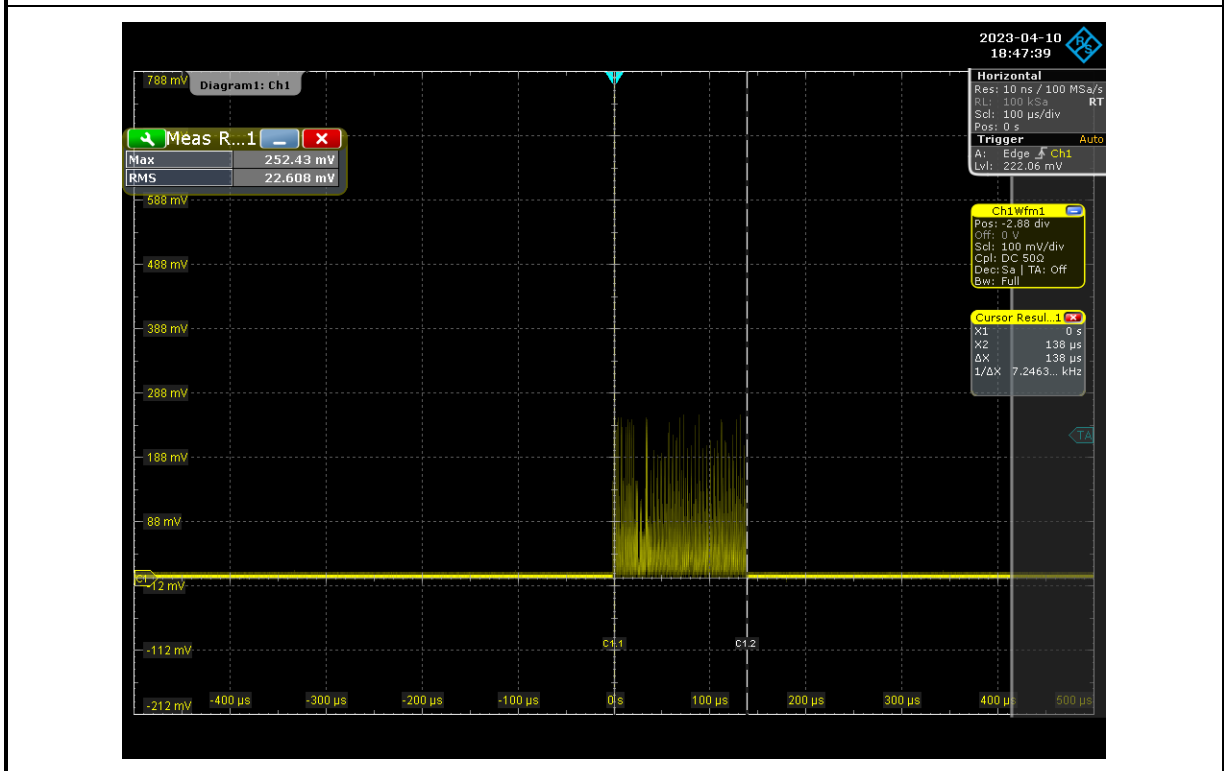
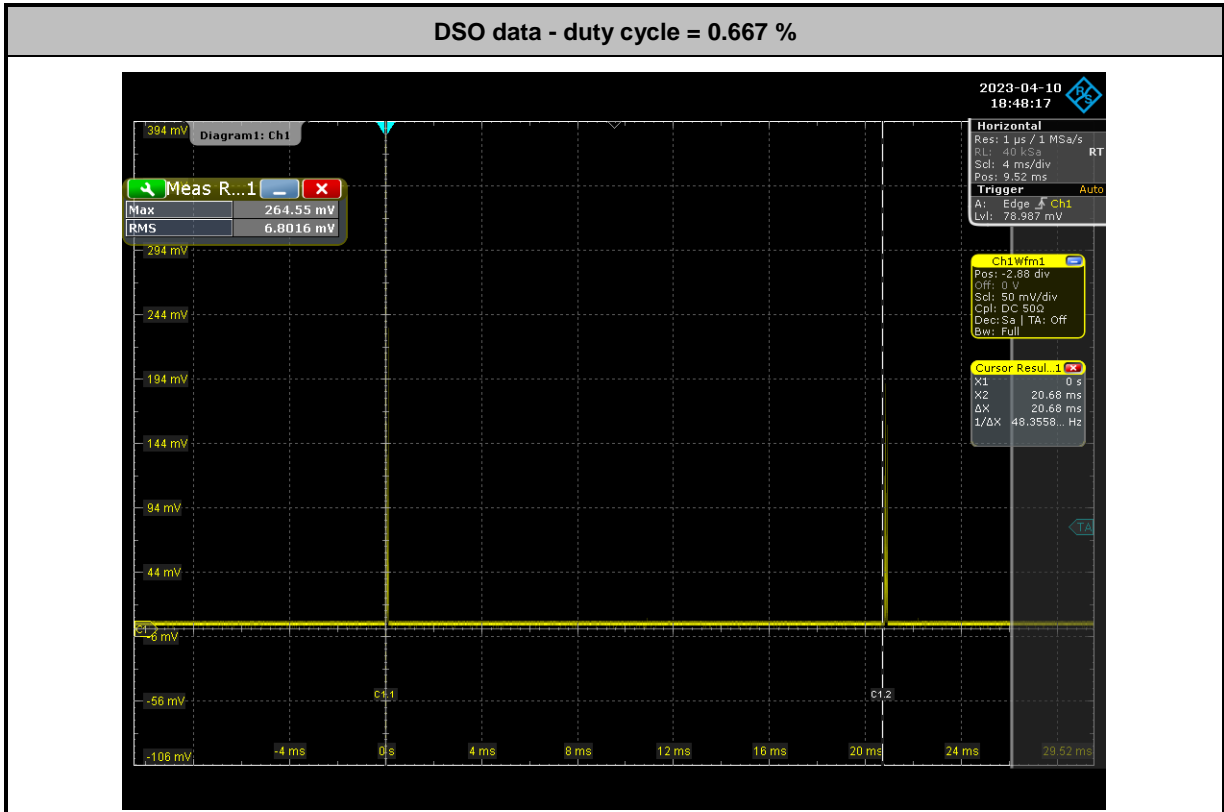


< Mode 4: 60G Tx (LRP)\_Channel Index 2\_CH4\_60.797GHz >





< Mode 5: 60G Tx (LRP)\_Channel Index 3\_CH4\_62.957GHz >







### 3.6 Transmit Spurious Emission

#### 3.6.1 Limit of Radiated Spurious Emission

Frequency Range	Field Strength Limit
9 kHz – 490 kHz	2400 (uV/m)/F (kHz) at 300 meter distance
490 kHz – 1.705 MHz	24000 (uV/m)/F (kHz) at 30 meter distance
1.705 MHz – 30 MHz	30 uV/m at 30 meter distance
30 MHz – 88 MHz	100 uV/m at 3 meter distance
88 MHz – 216 MHz	150 uV/m at 3 meter distance
216 MHz – 960 MHz	200 uV/m at 3 meter distance
960 MHz – 40 GHz	500 uV/m at 3 meter distance
40 GHz – 200 GHz	90 pW/cm <sup>2</sup> at 3 meter distance
Note1: For the applicable limit, see FCC 15.255 (d)	
Note2: Spurious emissions shall not exceed the level of fundamental emission.	

#### 3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.6.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 9.12 and 9.13.

For above 40GHz emission:

$$EIRP = Prx - Grx + \text{Cable loss} + \text{Free space loss} = Prx - Grx + \text{Cable loss} + 20 \cdot \log(4 \pi d / \lambda)$$

Which

Prx = Read Level

Grx = Rx Antenna Gain

A distance factor is offset and formula is  $20 \cdot \log(D1/D2)$

Which

D1 = Specification distance = 3m

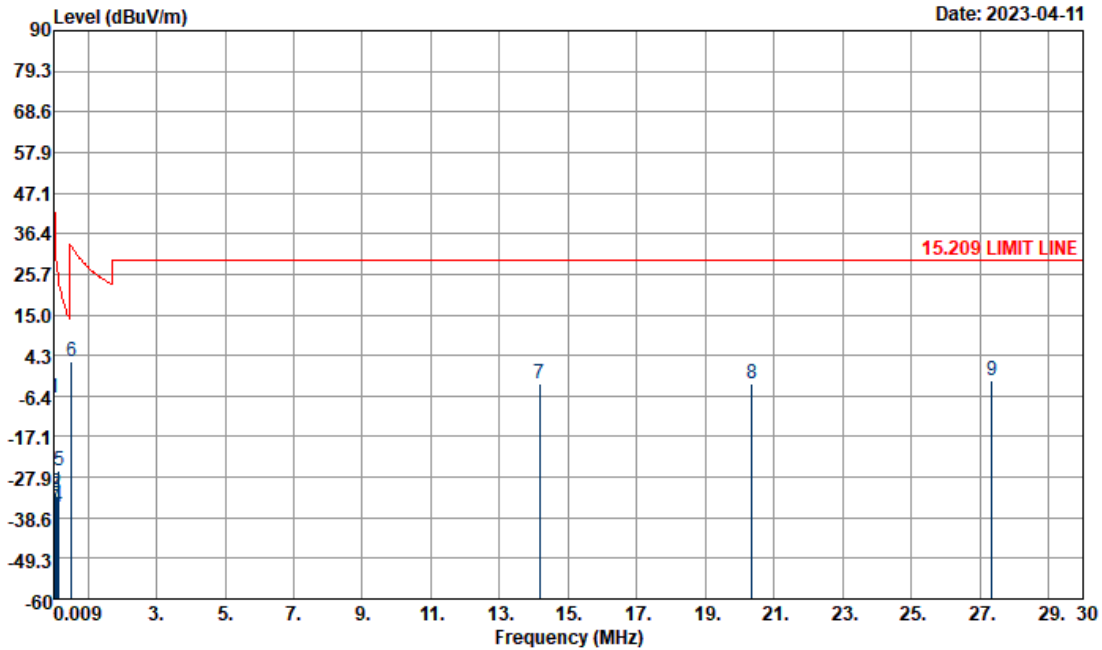
D2 = Measurement distance



3.6.4 Test Result

<Below 30MHz>

Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Horizontal
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		

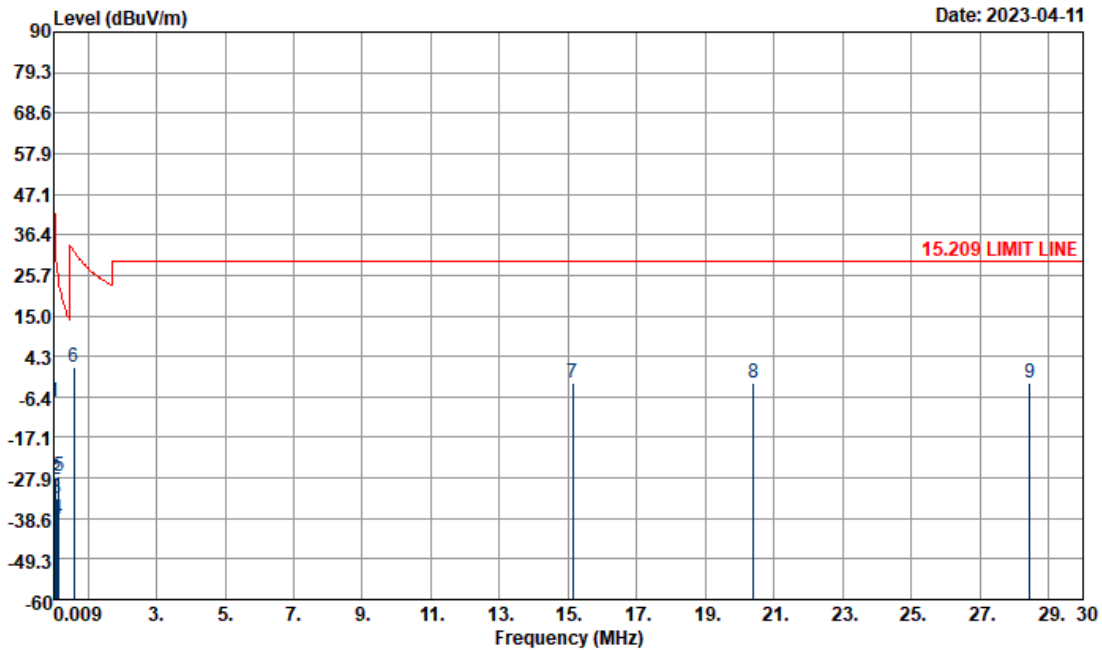


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 HORIZONTAL

Frequency (MHz)	Level (dBuV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01925	-6.91	-80	-48.83	41.92	53.24	19.83	0.02	-	-	A
0.07149	-31.81	-80	-62.33	30.52	28.45	19.72	0.02	-	-	A
0.0964	-33.05	-80	-60.97	27.92	27.27	19.66	0.02	-	-	Q
0.11248	-35.6	-80	-62.18	26.58	24.76	19.62	0.02	-	-	A
0.1551	-25.99	-80	-49.78	23.79	34.36	19.62	0.03	-	-	A
0.52755	2.58	-40	-30.58	33.16	23	19.54	0.04	-	-	Q
14.176	-3.03	-40	-32.53	29.5	17.14	19.64	0.19	-	-	Q
20.347	-3.29	-40	-32.79	29.5	16.5	20.03	0.18	-	-	Q
27.34	-2.21	-40	-31.71	29.5	17.09	20.54	0.16	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Vertical
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		

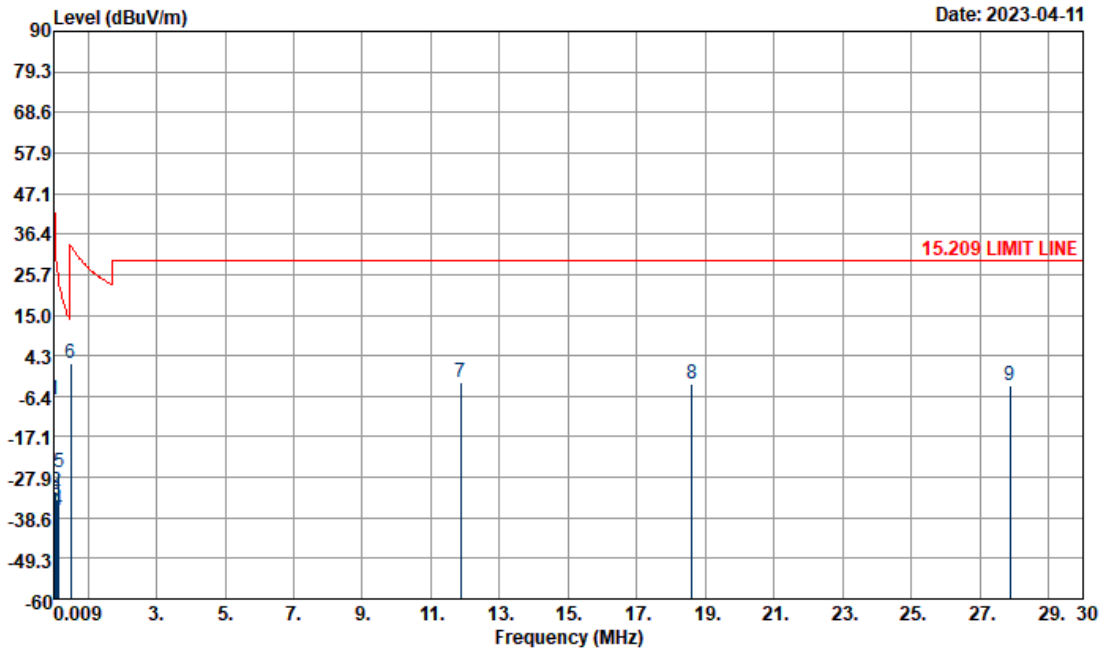


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
0.00956	-7.81	-80	-55.8	47.99	52.11	20.06	0.02	-	-	A
0.06642	-28.04	-80	-59.2	31.16	32.22	19.72	0.02	-	-	A
0.09644	-33.36	-80	-61.28	27.92	26.96	19.66	0.02	-	-	Q
0.14464	-38.79	-80	-63.19	24.4	21.56	19.62	0.03	-	-	A
0.15408	-27.48	-80	-51.33	23.85	32.87	19.62	0.03	-	-	A
0.58763	1.48	-40	-30.74	32.22	21.89	19.55	0.04	-	-	Q
15.128	-2.84	-40	-32.34	29.5	17.31	19.65	0.2	-	-	Q
20.392	-2.95	-40	-32.45	29.5	16.84	20.03	0.18	-	-	Q
28.44	-2.92	-40	-32.42	29.5	16.45	20.46	0.17	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Horizontal
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

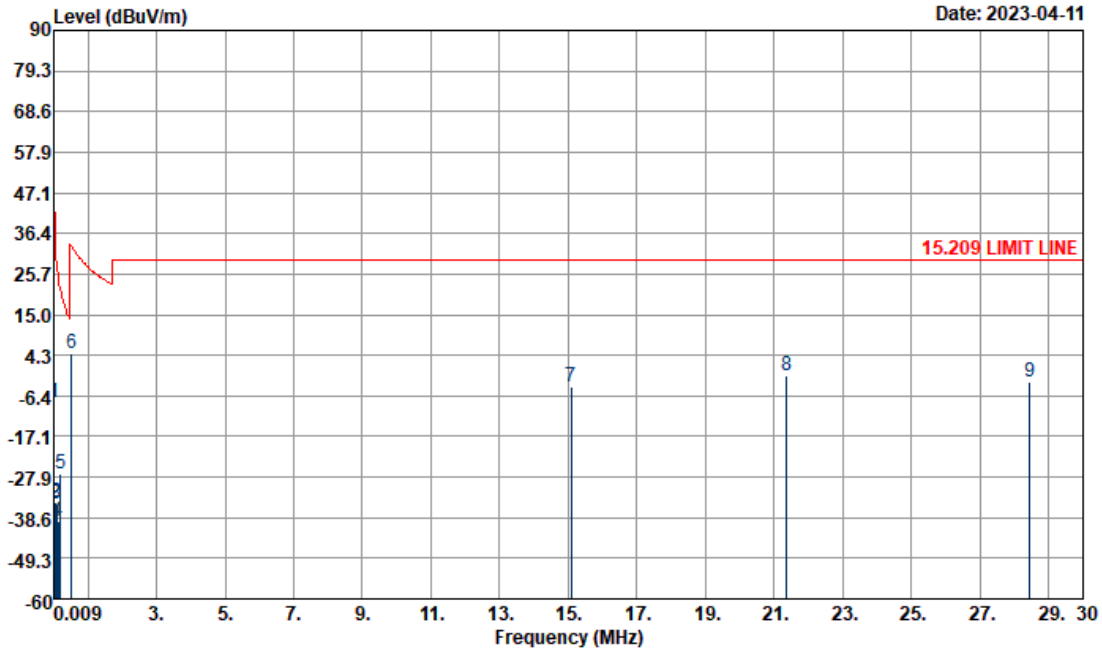


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01925	-7.21	-80	-49.13	41.92	52.94	19.83	0.02	-	-	A
0.07152	-31.58	-80	-62.1	30.52	28.68	19.72	0.02	-	-	A
0.0965	-33.92	-80	-61.83	27.91	26.4	19.66	0.02	-	-	Q
0.11264	-36.58	-80	-63.15	26.57	23.78	19.62	0.02	-	-	A
0.15136	-26.48	-80	-50.48	24	33.87	19.62	0.03	-	-	A
0.51253	2.28	-40	-31.13	33.41	22.7	19.54	0.04	-	-	Q
11.856	-2.85	-40	-32.35	29.5	17.36	19.62	0.17	-	-	Q
18.601	-2.97	-40	-32.47	29.5	17	19.84	0.19	-	-	Q
27.875	-3.71	-40	-33.21	29.5	15.58	20.54	0.17	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Vertical
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

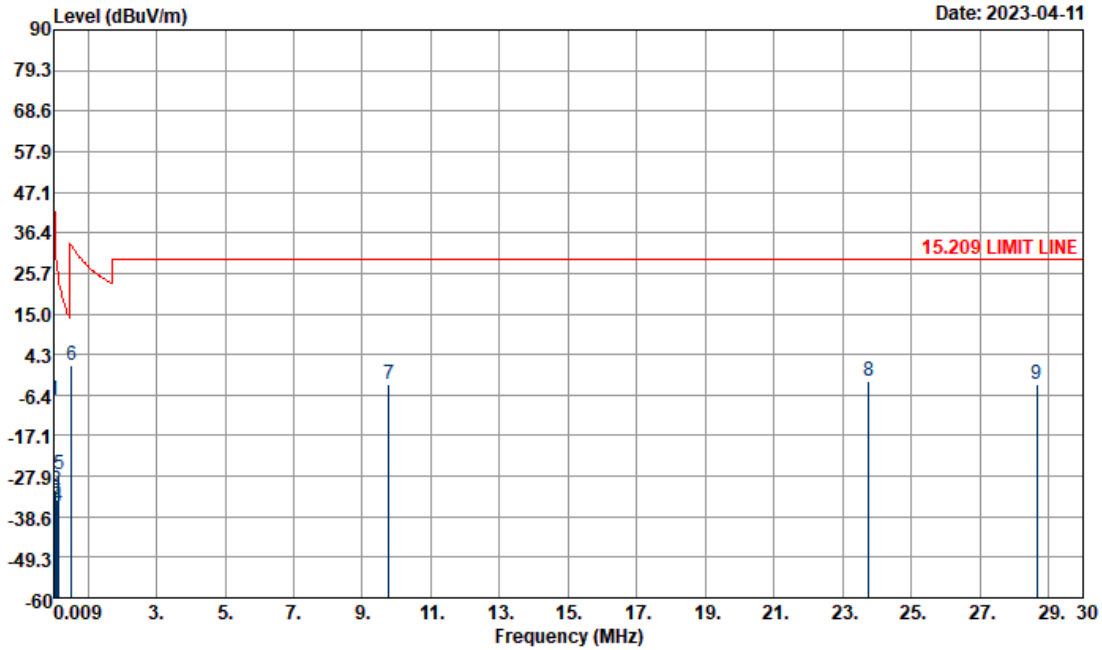


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 VERTICAL

Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.00956	-8.31	-80	-56.3	47.99	51.61	20.06	0.02	-	-	A
0.06435	-34.52	-80	-65.95	31.43	25.74	19.72	0.02	-	-	A
0.09646	-34.88	-80	-62.8	27.92	25.44	19.66	0.02	-	-	Q
0.14468	-39.46	-80	-63.86	24.4	20.89	19.62	0.03	-	-	A
0.19658	-27.18	-80	-48.91	21.73	33.15	19.63	0.04	-	-	A
0.52004	4.82	-40	-28.46	33.28	25.24	19.54	0.04	-	-	Q
15.088	-3.93	-40	-33.43	29.5	16.22	19.65	0.2	-	-	Q
21.355	-1.1	-40	-30.6	29.5	18.59	20.14	0.17	-	-	Q
28.445	-2.82	-40	-32.32	29.5	16.55	20.46	0.17	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Horizontal
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		

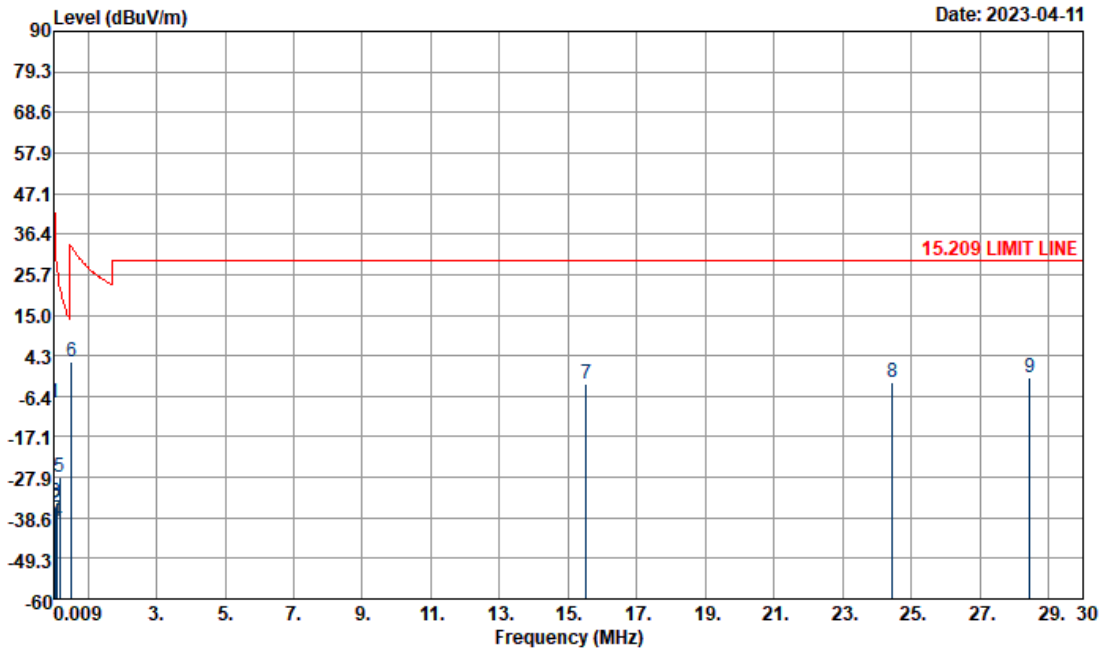


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01915	-7.89	-80	-49.85	41.96	52.25	19.84	0.02	-	-	A
0.07152	-31.38	-80	-61.9	30.52	28.88	19.72	0.02	-	-	A
0.09642	-33.96	-80	-61.88	27.92	26.36	19.66	0.02	-	-	Q
0.11256	-35.73	-80	-62.31	26.58	24.63	19.62	0.02	-	-	A
0.15952	-27.59	-80	-51.14	23.55	32.76	19.62	0.03	-	-	A
0.52004	1.5	-40	-31.78	33.28	21.92	19.54	0.04	-	-	Q
9.768	-3.6	-40	-33.1	29.5	16.64	19.6	0.16	-	-	Q
23.758	-2.69	-40	-32.19	29.5	16.76	20.39	0.16	-	-	Q
28.655	-3.62	-40	-33.12	29.5	15.79	20.42	0.17	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Vertical
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CHO_60.163GHz		

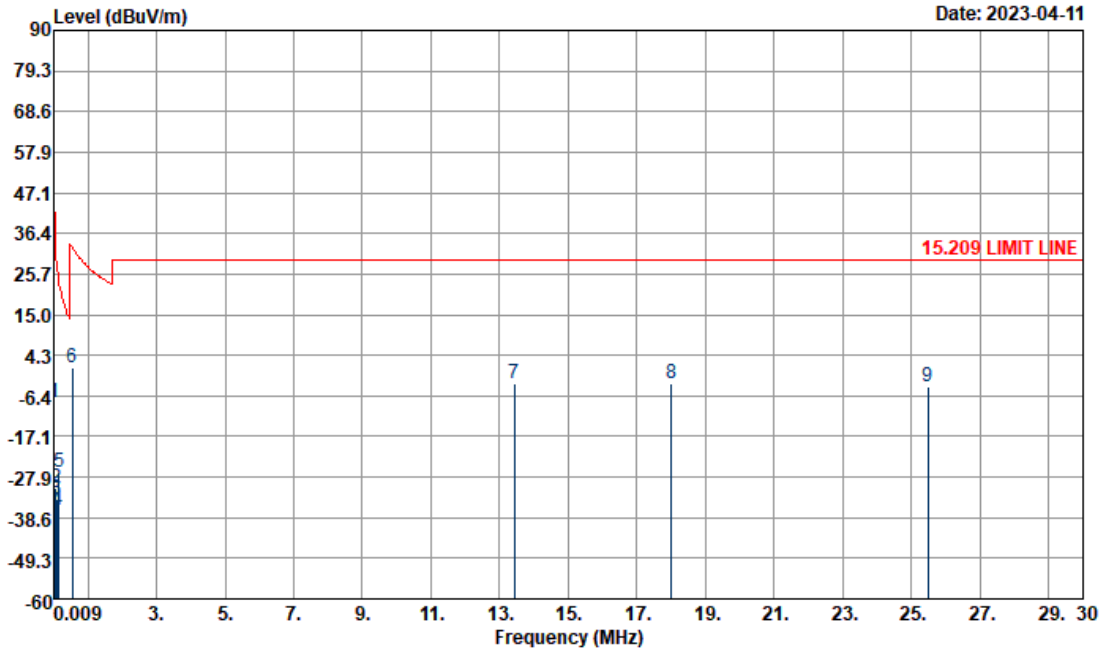


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
0.00976	-8.21	-80	-56.02	47.81	51.73	20.04	0.02	-	-	A
0.07152	-35.79	-80	-66.31	30.52	24.47	19.72	0.02	-	-	A
0.09644	-34.39	-80	-62.31	27.92	25.93	19.66	0.02	-	-	Q
0.11256	-39.62	-80	-66.2	26.58	20.74	19.62	0.02	-	-	A
0.17176	-27.82	-80	-50.73	22.91	32.53	19.62	0.03	-	-	A
0.52755	2.69	-40	-30.47	33.16	23.11	19.54	0.04	-	-	Q
15.512	-3.25	-40	-32.75	29.5	16.89	19.66	0.2	-	-	Q
24.451	-2.62	-40	-32.12	29.5	16.81	20.42	0.15	-	-	Q
28.445	-1.66	-40	-31.16	29.5	17.71	20.46	0.17	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Horizontal
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		



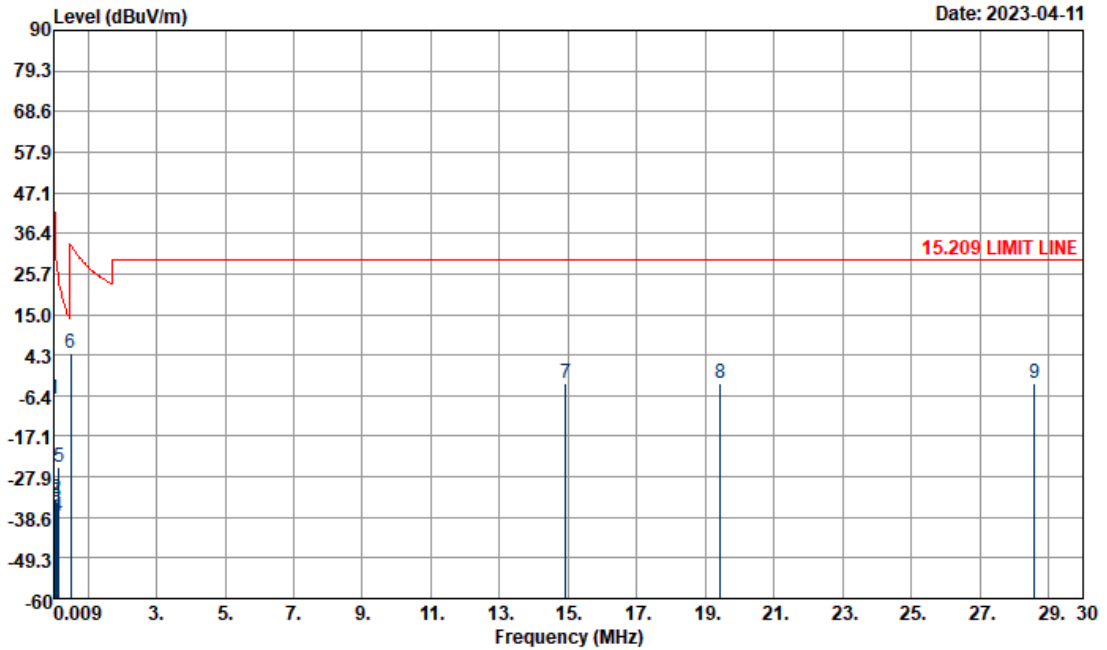
Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01925	-8.03	-80	-49.95	41.92	52.12	19.83	0.02	-	-	A
0.07152	-30.92	-80	-61.44	30.52	29.34	19.72	0.02	-	-	A
0.09646	-33.78	-80	-61.7	27.92	26.54	19.66	0.02	-	-	Q
0.11252	-36.54	-80	-63.12	26.58	23.82	19.62	0.02	-	-	A
0.16088	-26.54	-80	-50.01	23.47	33.81	19.62	0.03	-	-	A
0.54257	1.15	-40	-31.76	32.91	21.57	19.54	0.04	-	-	Q
13.432	-3	-40	-32.5	29.5	17.18	19.63	0.19	-	-	Q
18.007	-3.13	-40	-32.63	29.5	16.91	19.77	0.19	-	-	Q
25.485	-3.91	-40	-33.41	29.5	15.47	20.47	0.15	-	-	Q





Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Vertical
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		

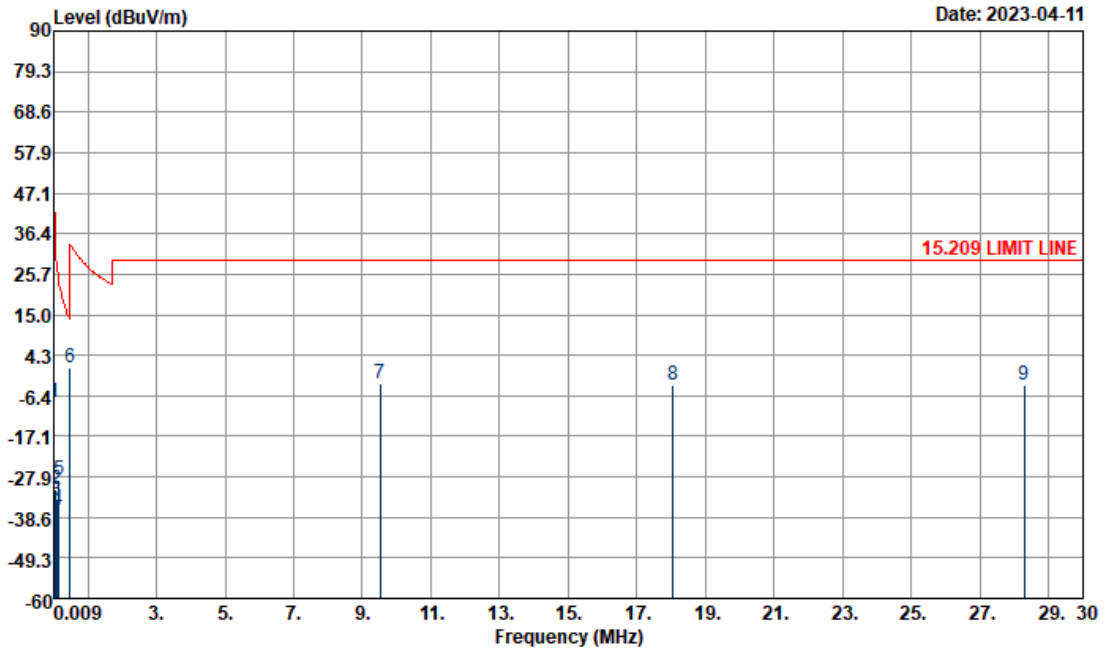


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 VERTICAL

Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.00946	-7.3	-80	-55.39	48.09	52.6	20.07	0.03	-	-	A
0.07143	-33.6	-80	-64.13	30.53	26.66	19.72	0.02	-	-	A
0.09646	-34.48	-80	-62.4	27.92	25.84	19.66	0.02	-	-	Q
0.14468	-38.42	-80	-62.82	24.4	21.93	19.62	0.03	-	-	A
0.15952	-25.24	-80	-48.79	23.55	35.11	19.62	0.03	-	-	A
0.49751	4.79	-40	-28.88	33.67	25.21	19.54	0.04	-	-	Q
14.92	-3.03	-40	-32.53	29.5	17.12	19.65	0.2	-	-	Q
19.438	-2.97	-40	-32.47	29.5	16.92	19.93	0.18	-	-	Q
28.58	-3.05	-40	-32.55	29.5	16.35	20.43	0.17	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Horizontal
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		

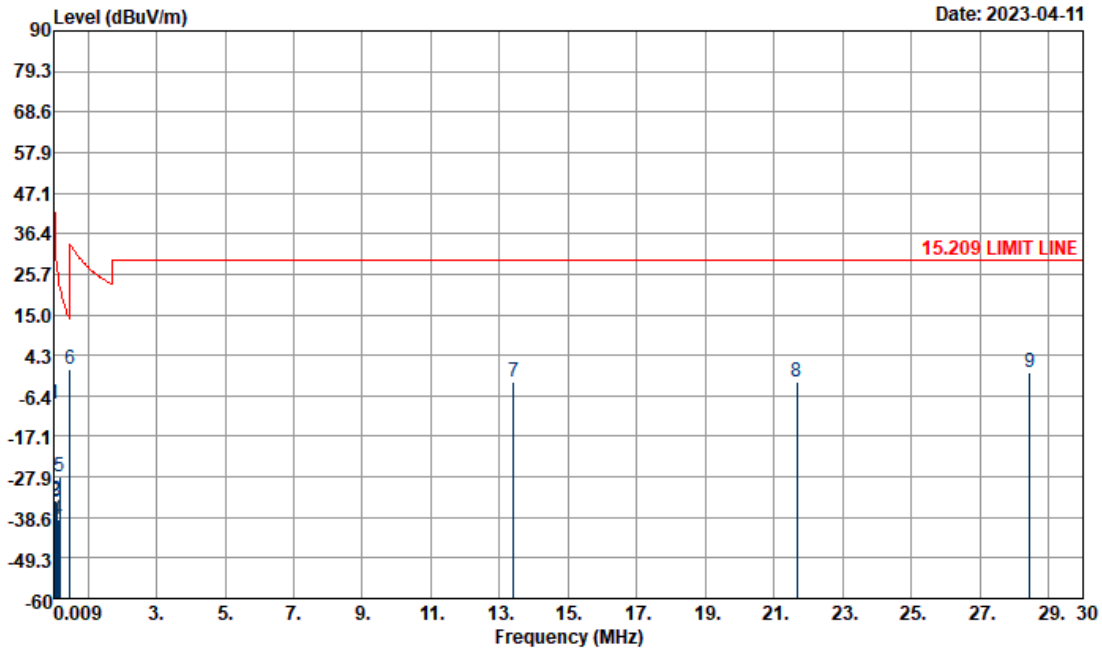


Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.0192	-8.12	-80	-50.06	41.94	52.02	19.84	0.02	-	-	A
0.07143	-31.07	-80	-61.6	30.53	29.19	19.72	0.02	-	-	A
0.09646	-33.92	-80	-61.84	27.92	26.4	19.66	0.02	-	-	Q
0.11252	-36.69	-80	-63.27	26.58	23.67	19.62	0.02	-	-	A
0.16938	-28.5	-80	-51.53	23.03	31.85	19.62	0.03	-	-	A
0.49	0.82	-40	-12.98	13.8	21.24	19.54	0.04	-	-	Q
9.528	-3.26	-40	-32.76	29.5	16.99	19.6	0.15	-	-	Q
18.061	-3.64	-40	-33.14	29.5	16.39	19.78	0.19	-	-	Q
28.295	-3.73	-40	-33.23	29.5	15.62	20.48	0.17	-	-	Q



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Troye Hsieh	Test Distance	3m
Test Range	9KHz to 30MHz	Test Polarization	Vertical
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		



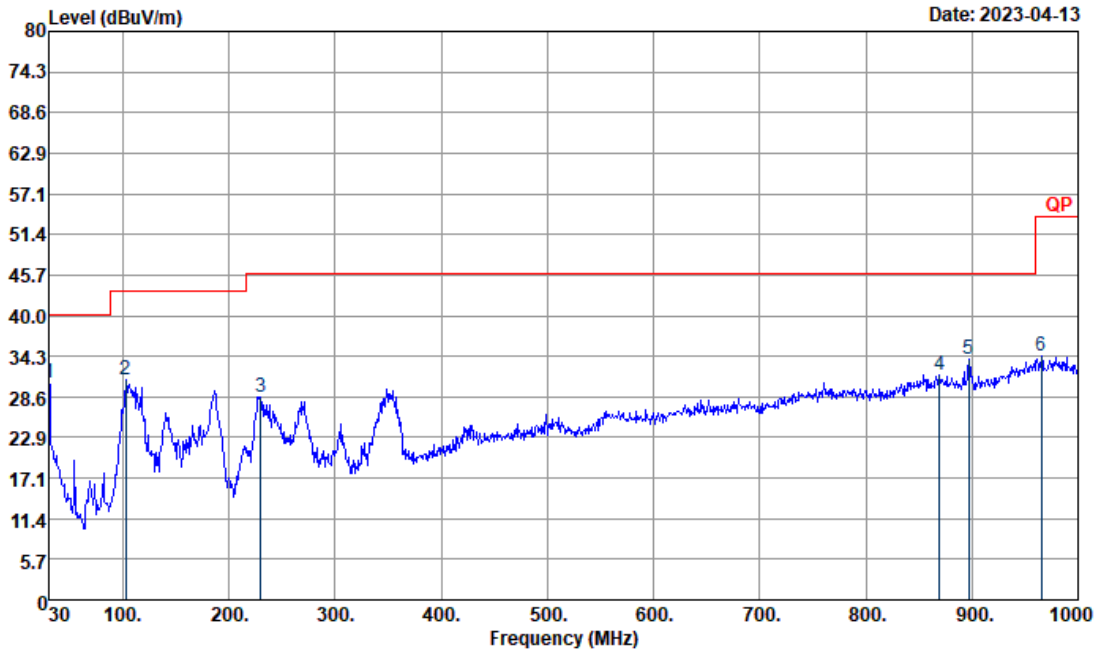
Site : 03CH11-HY  
 Condition : 15.209 LIMIT LINE 3m LOOP\_100488\_220920 VERTICAL

Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.00931	-8.46	-80	-56.69	48.23	51.42	20.09	0.03	-	-	A
0.0714	-34.3	-80	-64.83	30.53	25.96	19.72	0.02	-	-	A
0.09642	-34.59	-80	-62.51	27.92	25.73	19.66	0.02	-	-	Q
0.14464	-38.93	-80	-63.33	24.4	21.42	19.62	0.03	-	-	A
0.17278	-27.96	-80	-50.81	22.85	32.39	19.62	0.03	-	-	A
0.49	0.69	-40	-13.11	13.8	21.11	19.54	0.04	-	-	Q
13.4	-2.97	-40	-32.47	29.5	17.21	19.63	0.19	-	-	Q
21.652	-2.92	-40	-32.42	29.5	16.74	20.17	0.17	-	-	Q
28.445	-0.11	-40	-29.61	29.5	19.26	20.46	0.17	-	-	Q



<30MHz to 1GHz>

Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Horizontal
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		

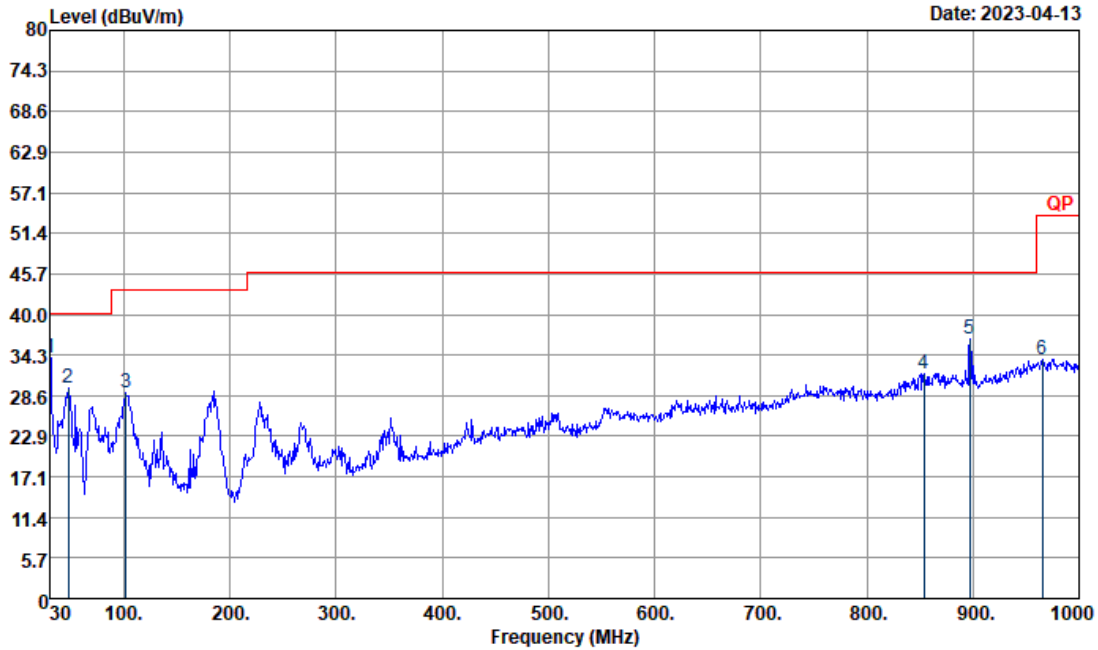


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	30.44	-9.56	40	37.83	23.92	0.84	32.15	-	-	P
102.36	30.95	-12.55	43.5	45.39	16.11	1.58	32.13	-	-	P
229.8	28.56	-17.44	46	42.44	15.83	2.34	32.05	-	-	P
869.1	31.73	-14.27	46	30.09	28.72	4.38	31.46	-	-	P
897.1	33.85	-12.15	46	32.22	28.5	4.39	31.26	-	-	P
965.7	34.22	-19.78	54	29.59	30.56	4.71	30.64	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Vertical
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		

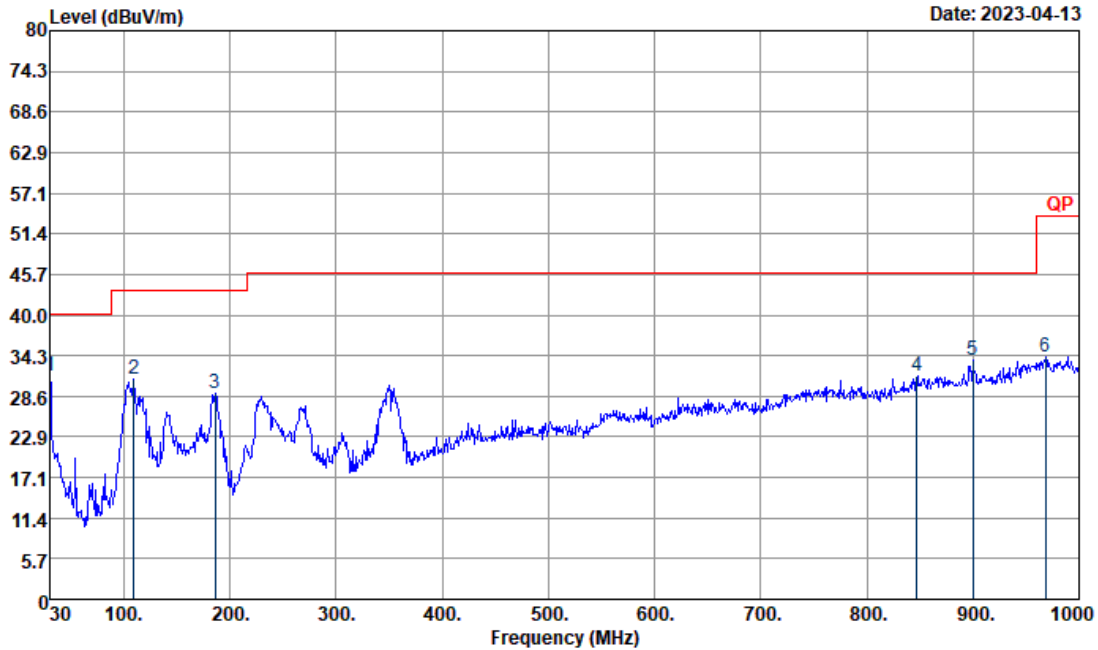


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.27	33.79	-6.21	40	41.29	23.8	0.85	32.15	-	-	P
47.82	29.56	-10.44	40	45.59	15.06	1.16	32.25	-	-	P
101.55	28.98	-14.52	43.5	43.53	16.01	1.57	32.13	-	-	P
853.7	31.69	-14.31	46	30.17	28.71	4.38	31.57	-	-	P
897.1	36.52	-9.48	46	34.89	28.5	4.39	31.26	-	-	P
965.7	33.73	-20.27	54	29.1	30.56	4.71	30.64	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Horizontal
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

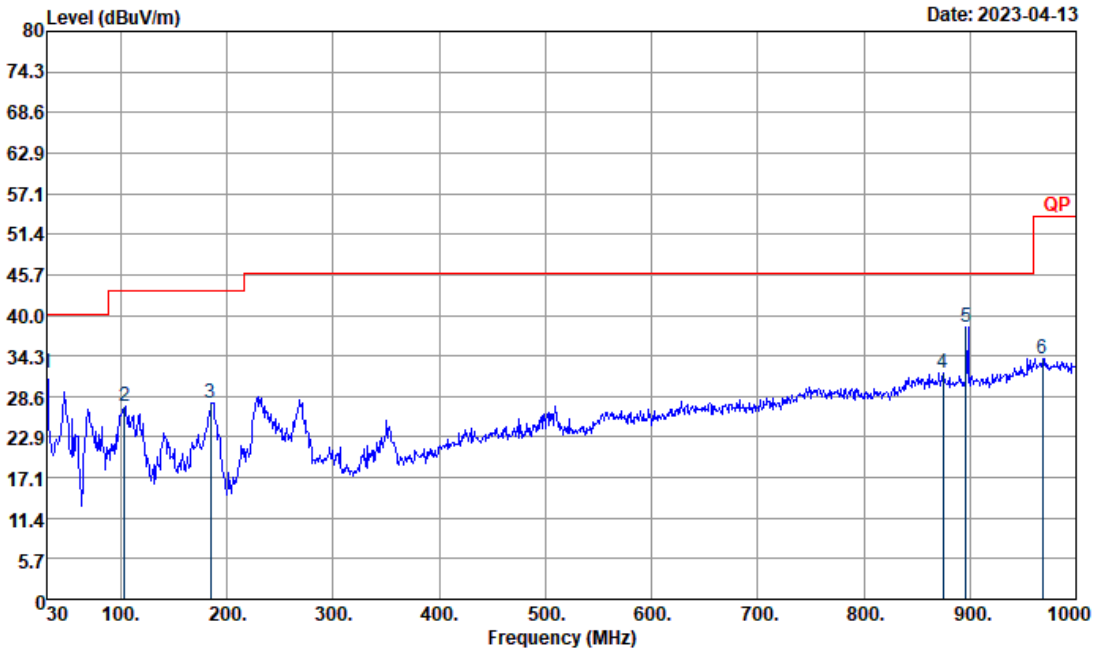


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	31.38	-8.62	40	38.77	23.92	0.84	32.15	-	-	P
109.11	31.01	-12.49	43.5	44.87	16.62	1.66	32.14	-	-	P
185.52	28.94	-14.56	43.5	44.29	14.61	2.11	32.07	-	-	P
847.4	31.38	-14.62	46	29.98	28.64	4.38	31.62	-	-	P
899.9	33.73	-12.27	46	32.02	28.56	4.39	31.24	-	-	P
968.5	34.11	-19.89	54	29.47	30.53	4.72	30.61	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Vertical
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

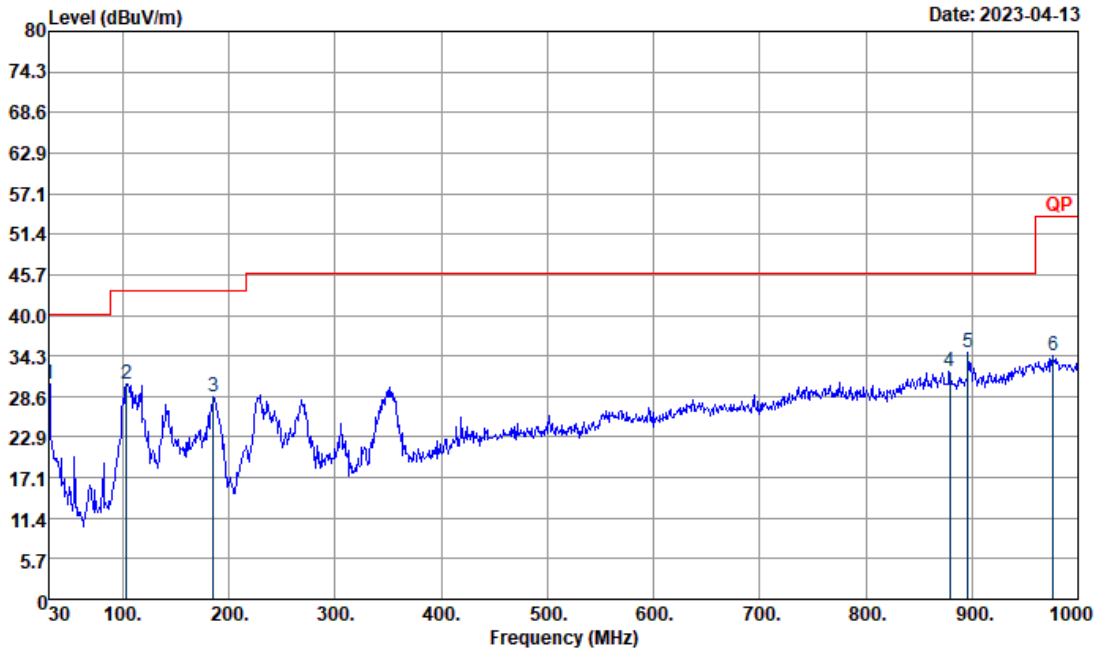


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	31.78	-8.22	40	39.17	23.92	0.84	32.15	-	-	P
103.44	27.24	-16.26	43.5	41.6	16.18	1.6	32.14	-	-	P
184.44	27.67	-15.83	43.5	42.98	14.64	2.11	32.06	-	-	P
874.7	31.94	-14.06	46	30.37	28.61	4.38	31.42	-	-	P
896.4	38.35	-7.65	46	36.74	28.49	4.39	31.27	-	-	P
968.5	33.92	-20.08	54	29.28	30.53	4.72	30.61	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Horizontal
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		



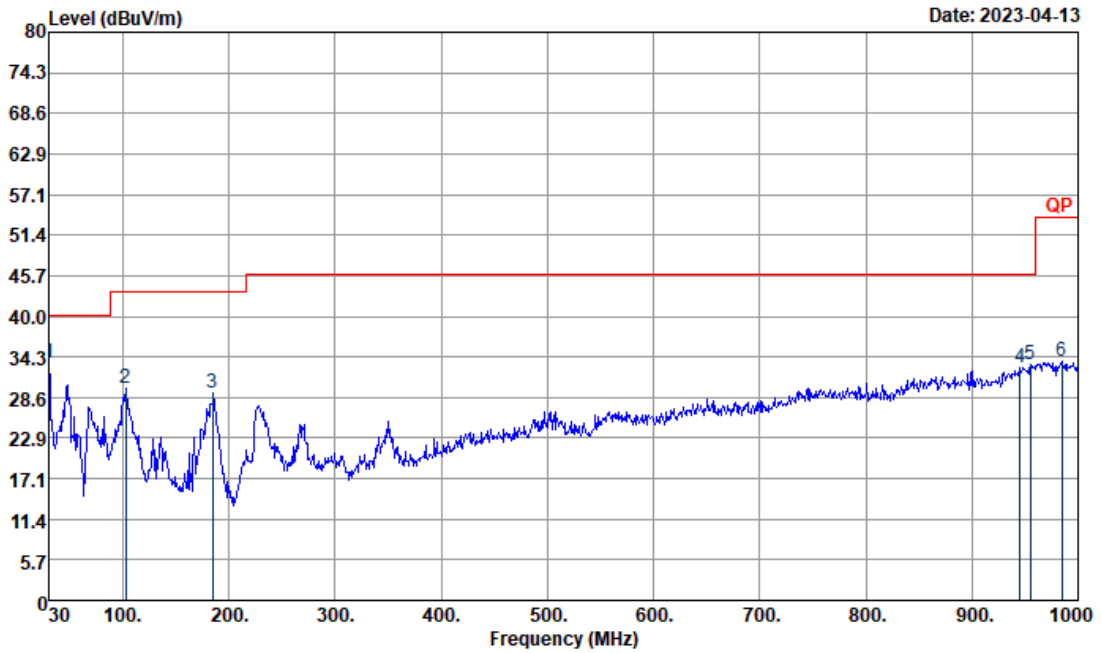
Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	30.34	-9.66	40	37.73	23.92	0.84	32.15	-	-	P
102.9	30.3	-13.2	43.5	44.69	16.16	1.58	32.13	-	-	P
185.25	28.45	-15.05	43.5	43.79	14.62	2.11	32.07	-	-	P
878.9	32.06	-13.94	46	30.53	28.54	4.38	31.39	-	-	P
896.4	34.85	-11.15	46	33.24	28.49	4.39	31.27	-	-	P
976.2	34.27	-19.73	54	29.61	30.46	4.73	30.53	-	-	P





Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Vertical
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		

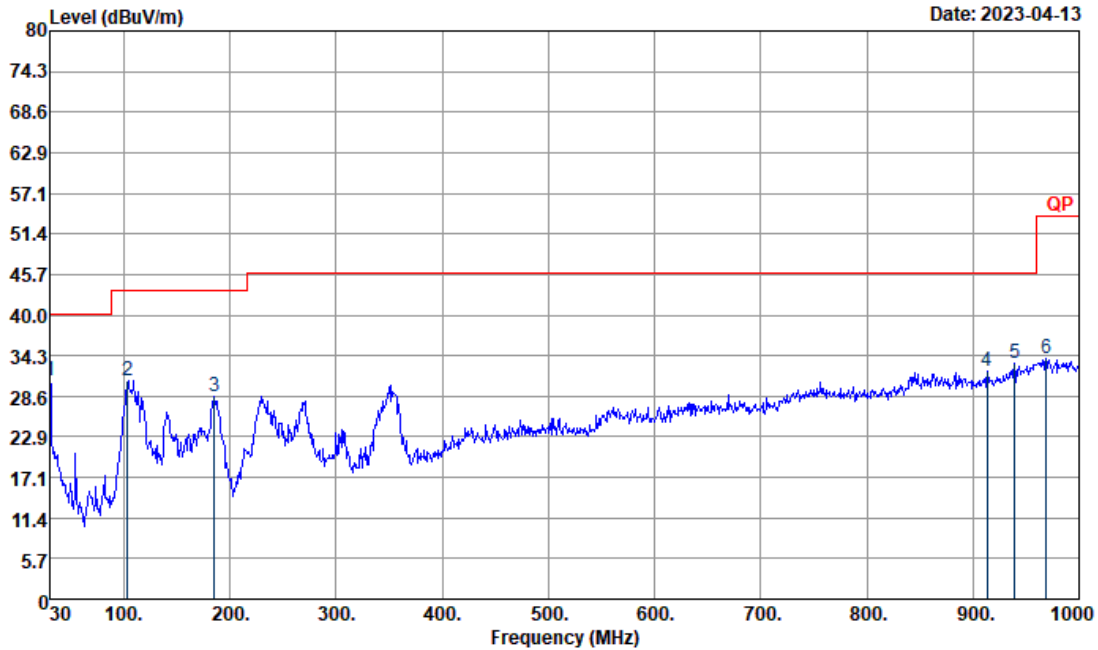


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	33.51	-6.49	40	40.9	23.92	0.84	32.15	-	-	P
102.63	29.97	-13.53	43.5	44.39	16.13	1.58	32.13	-	-	P
184.44	29.23	-14.27	43.5	44.54	14.64	2.11	32.06	-	-	P
945.4	32.83	-13.17	46	29.08	29.95	4.64	30.84	-	-	P
955.2	33.15	-12.85	46	28.8	30.42	4.68	30.75	-	-	P
984.6	33.64	-20.36	54	29.12	30.22	4.75	30.45	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Horizontal
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		

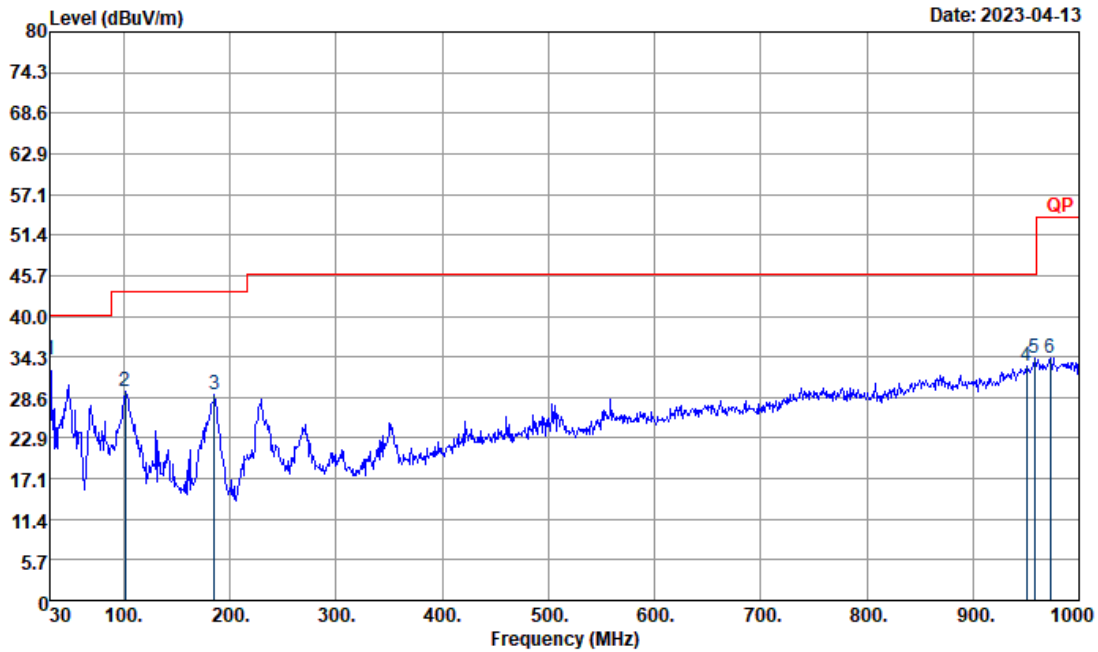


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	30.75	-9.25	40	38.14	23.92	0.84	32.15	-	-	P
103.17	30.83	-12.67	43.5	45.2	16.17	1.59	32.13	-	-	P
184.98	28.55	-14.95	43.5	43.87	14.63	2.11	32.06	-	-	P
913.2	32.04	-13.96	46	30.08	28.62	4.46	31.12	-	-	P
939.1	33.22	-12.78	46	29.94	29.57	4.61	30.9	-	-	P
969.2	33.89	-20.11	54	29.23	30.54	4.72	30.6	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Vertical
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		

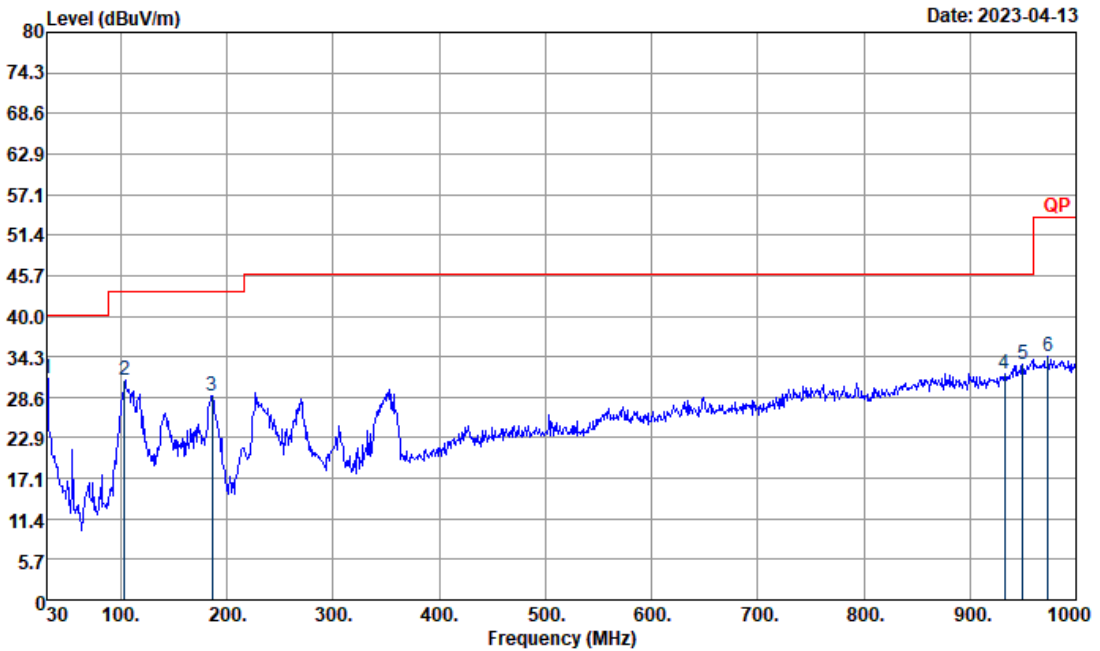


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	33.8	-6.2	40	41.19	23.92	0.84	32.15	-	-	P
101.01	29.43	-14.07	43.5	44.06	15.94	1.56	32.13	-	-	P
185.25	29.04	-14.46	43.5	44.38	14.62	2.11	32.07	-	-	P
950.3	32.91	-13.09	46	28.86	30.19	4.66	30.8	-	-	P
958	34.01	-11.99	46	29.47	30.58	4.68	30.72	-	-	P
972.7	34.2	-19.8	54	29.48	30.56	4.73	30.57	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Horizontal
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		

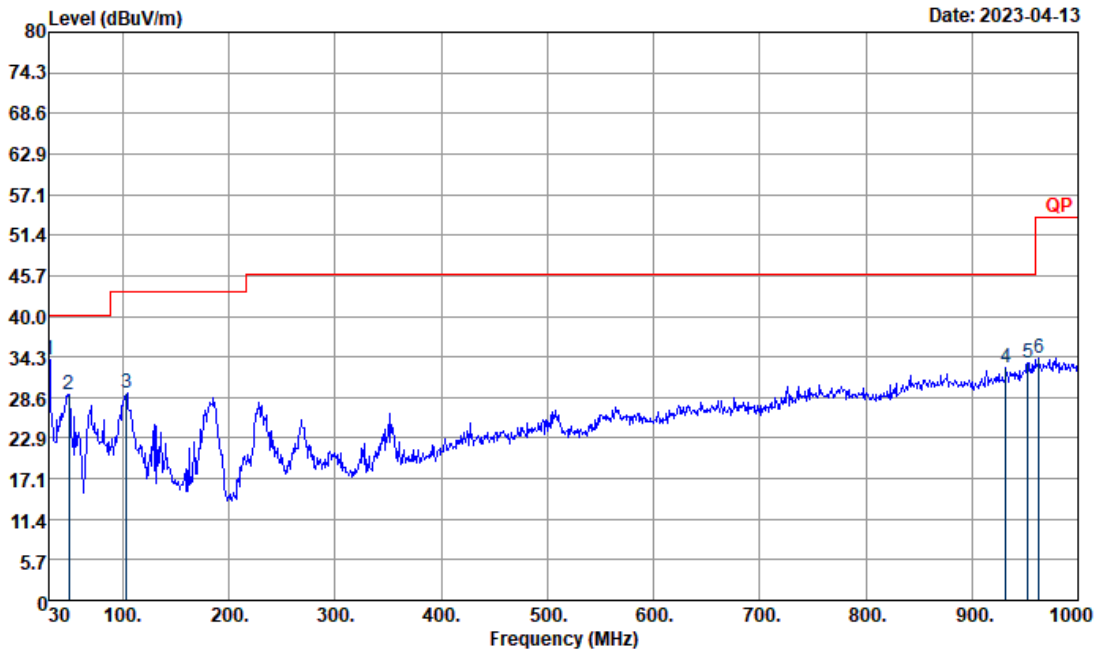


Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	31.23	-8.77	40	38.62	23.92	0.84	32.15	-	-	P
103.17	31.07	-12.43	43.5	45.44	16.17	1.59	32.13	-	-	P
186.06	28.69	-14.81	43.5	44.05	14.6	2.11	32.07	-	-	P
932.8	31.93	-14.07	46	29.04	29.28	4.56	30.95	-	-	P
949.6	33.29	-12.71	46	29.28	30.15	4.66	30.8	-	-	P
973.4	34.26	-19.74	54	29.55	30.54	4.73	30.56	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Yuan Lee	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Vertical
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		



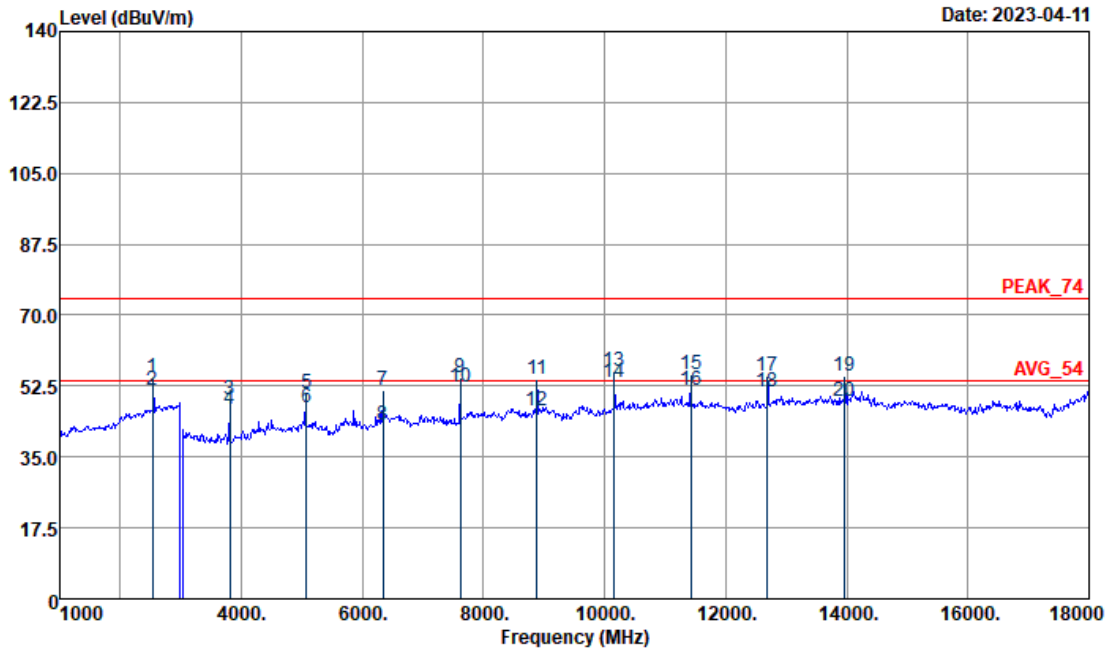
Site : 03CH11-HY  
 Condition : QP 3m 2\_BILOG\_35414\_221008 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30.27	33.79	-6.21	40	41.29	23.8	0.85	32.15	-	-	P
49.17	29.04	-10.96	40	45.66	14.46	1.17	32.25	-	-	P
102.9	29.13	-14.37	43.5	43.52	16.16	1.58	32.13	-	-	P
932.1	32.82	-13.18	46	29.98	29.24	4.56	30.96	-	-	P
953.1	33.46	-12.54	46	29.23	30.33	4.67	30.77	-	-	P
962.9	34.07	-19.93	54	29.42	30.62	4.7	30.67	-	-	P



<1GHz to 18GHz>

Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Horizontal
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		



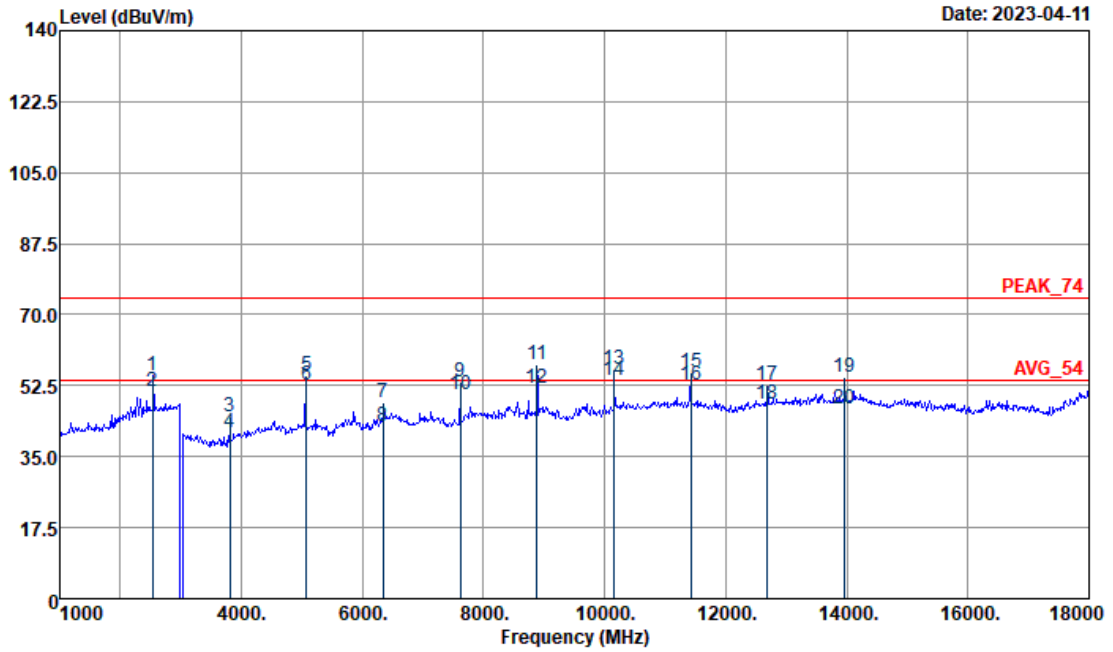
Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120D\_01620\_220824 HORIZONTAL



Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	54.67	-19.33	74	53.39	28.05	7.38	34.15	107	184	P
2538	51.62	-2.38	54	50.34	28.05	7.38	34.15	107	184	A
3807	48.98	-25.02	74	65.9	30.66	10.86	58.44	297	144	P
3807	46.74	-7.26	54	63.66	30.66	10.86	58.44	297	144	A
5076	50.73	-23.27	74	63.59	33.2	12.07	58.13	113	203	P
5076	47.28	-6.72	54	60.14	33.2	12.07	58.13	113	203	A
6345	51.33	-22.67	74	62.02	34.59	13.36	58.64	109	173	P
6345	43.08	-10.92	54	53.77	34.59	13.36	58.64	109	173	A
7615	54.69	-19.31	74	62.14	36.23	14.97	58.65	290	188	P
7615	52.09	-1.91	54	59.54	36.23	14.97	58.65	290	188	A
8883	54.08	-19.92	74	58.19	38	16.1	58.21	100	73	P
8883	46.38	-7.62	54	50.49	38	16.1	58.21	100	73	A
10152	56.18	-17.82	74	60.01	38.8	17.32	59.95	100	121	P
10152	53.37	-0.63	54	57.2	38.8	17.32	59.95	100	121	A
11421	55.22	-18.78	74	59.19	39.28	18.32	61.57	303	83	P
11421	51.66	-2.34	54	55.63	39.28	18.32	61.57	303	83	A
12690	54.86	-19.14	74	59.09	39.38	19.43	63.04	100	118	P
12690	51.26	-2.74	54	55.49	39.38	19.43	63.04	100	118	A
13959	55.08	-18.92	74	57.3	40.46	20.49	63.17	300	105	P
13959	48.68	-5.32	54	50.9	40.46	20.49	63.17	300	105	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Vertical
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		



Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120D\_01620\_220824 VERTICAL

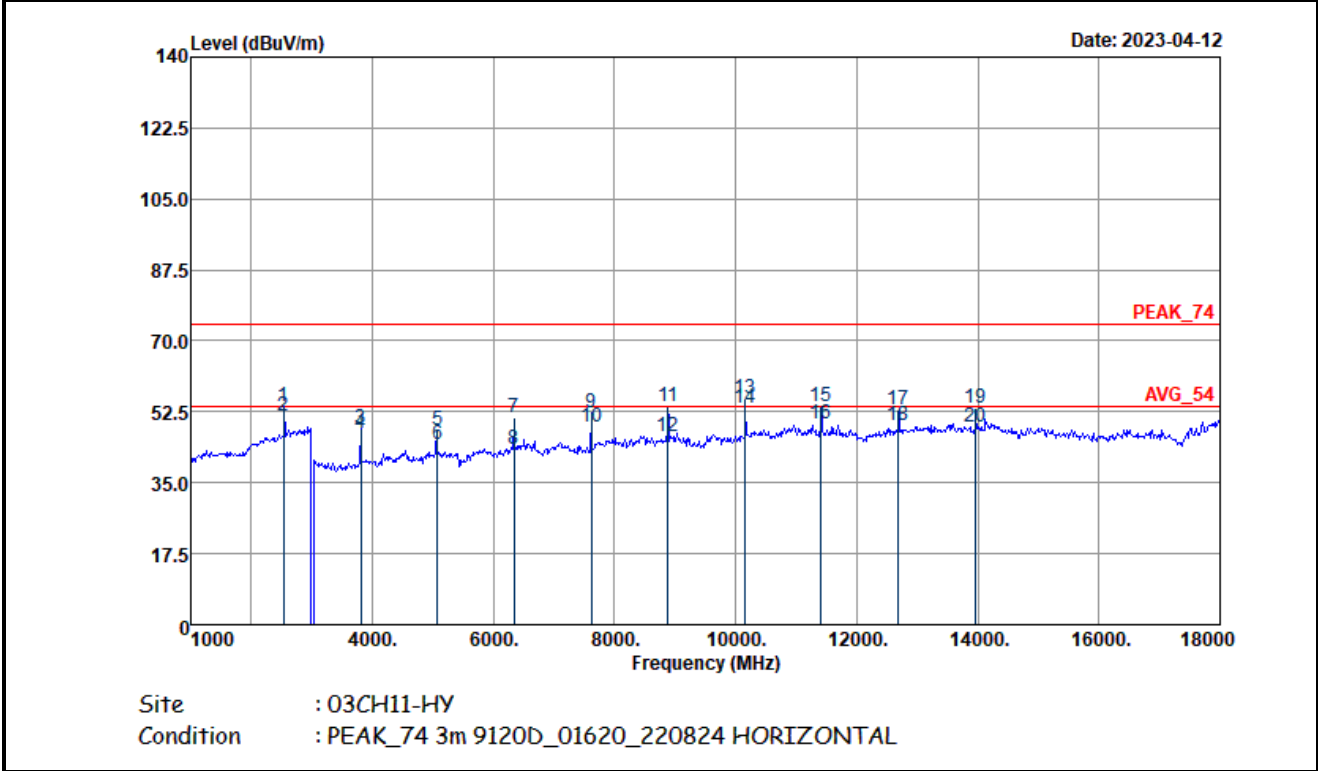




Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	54.86	-19.14	74	53.58	28.05	7.38	34.15	168	360	P
2538	51.08	-2.92	54	49.8	28.05	7.38	34.15	168	360	A
3807	44.9	-29.1	74	61.82	30.66	10.86	58.44	293	178	P
3807	40.89	-13.11	54	57.81	30.66	10.86	58.44	293	178	A
5076	54.88	-19.12	74	67.74	33.2	12.07	58.13	107	166	P
5076	52.77	-1.23	54	65.63	33.2	12.07	58.13	107	166	A
6345	48.28	-25.72	74	58.97	34.59	13.36	58.64	276	44	P
6345	42.6	-11.4	54	53.29	34.59	13.36	58.64	276	44	A
7615	53.37	-20.63	74	60.82	36.23	14.97	58.65	278	195	P
7615	50.29	-3.71	54	57.74	36.23	14.97	58.65	278	195	A
8883	57.56	-16.44	74	61.67	38	16.1	58.21	100	120	P
8883	51.88	-2.12	54	55.99	38	16.1	58.21	100	120	A
10152	56.41	-17.59	74	60.24	38.8	17.32	59.95	399	210	P
10152	53.84	-0.16	54	57.67	38.8	17.32	59.95	399	210	A
11421	55.77	-18.23	74	59.74	39.28	18.32	61.57	400	187	P
11421	52.48	-1.52	54	56.45	39.28	18.32	61.57	400	187	A
12690	52.79	-21.21	74	57.02	39.38	19.43	63.04	100	241	P
12690	47.94	-6.06	54	52.17	39.38	19.43	63.04	100	241	A
13959	54.42	-19.58	74	56.64	40.46	20.49	63.17	100	119	P
13959	46.82	-7.18	54	49.04	40.46	20.49	63.17	100	119	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Horizontal
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

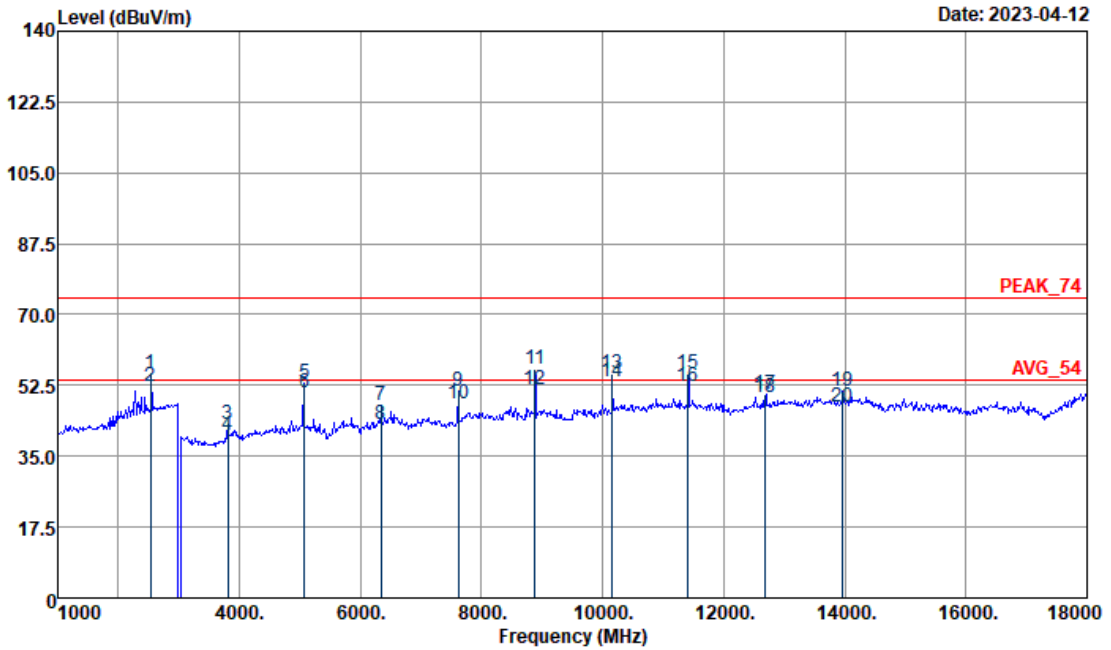




Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	53.69	-20.31	74	52.41	28.05	7.38	34.15	100	158	P
2538	51.59	-2.41	54	50.31	28.05	7.38	34.15	100	158	A
3810	48.34	-25.66	74	65.23	30.68	10.86	58.43	300	158	P
3810	47.08	-6.92	54	63.97	30.68	10.86	58.43	300	158	A
5070	48.15	-25.85	74	60.99	33.22	12.07	58.13	120	213	P
5070	44.28	-9.72	54	57.12	33.22	12.07	58.13	120	213	A
6345	51.1	-22.9	74	61.79	34.59	13.36	58.64	100	188	P
6345	43.11	-10.89	54	53.8	34.59	13.36	58.64	100	188	A
7620	52.12	-21.88	74	59.55	36.24	14.98	58.65	300	199	P
7620	48.79	-5.21	54	56.22	36.24	14.98	58.65	300	199	A
8880	53.68	-20.32	74	57.79	38	16.1	58.21	100	66	P
8880	46.3	-7.7	54	50.41	38	16.1	58.21	100	66	A
10155	55.96	-18.04	74	59.79	38.81	17.32	59.96	100	121	P
10155	53.36	-0.64	54	57.19	38.81	17.32	59.96	100	121	A
11415	53.73	-20.27	74	57.7	39.28	18.32	61.57	300	99	P
11415	49.59	-4.41	54	53.56	39.28	18.32	61.57	300	99	A
12690	52.94	-21.06	74	57.17	39.38	19.43	63.04	100	122	P
12690	48.99	-5.01	54	53.22	39.38	19.43	63.04	100	122	A
13965	53.33	-20.67	74	55.54	40.47	20.49	63.17	300	100	P
13965	48.58	-5.42	54	50.79	40.47	20.49	63.17	300	100	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Vertical
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		



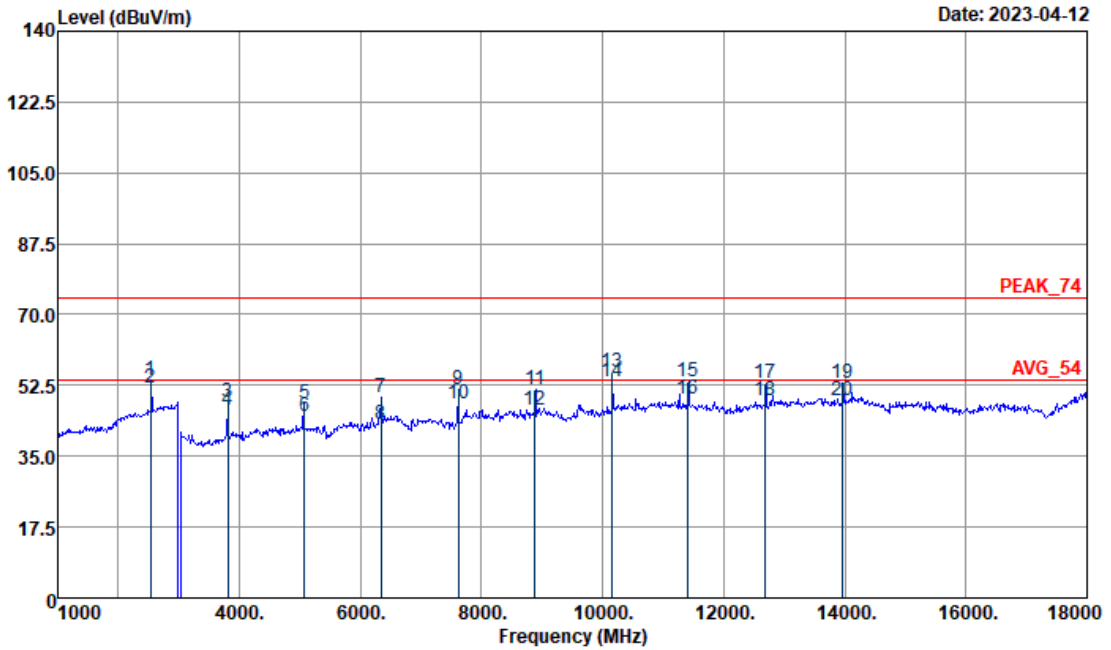
Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120b\_01620\_220824 VERTICAL  
Project : 331706



Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	55.47	-18.53	74	54.19	28.05	7.38	34.15	163	0	P
2538	52.42	-1.58	54	51.14	28.05	7.38	34.15	163	0	A
3810	42.79	-31.21	74	59.68	30.68	10.86	58.43	400	295	P
3810	39.98	-14.02	54	56.87	30.68	10.86	58.43	400	295	A
5070	53.09	-20.91	74	65.93	33.22	12.07	58.13	100	164	P
5070	50.79	-3.21	54	63.63	33.22	12.07	58.13	100	164	A
6345	47.43	-26.57	74	58.12	34.59	13.36	58.64	108	171	P
6345	42.83	-11.17	54	53.52	34.59	13.36	58.64	108	171	A
7620	50.98	-23.02	74	58.41	36.24	14.98	58.65	277	200	P
7620	47.79	-6.21	54	55.22	36.24	14.98	58.65	277	200	A
8880	56.7	-17.3	74	60.81	38	16.1	58.21	100	155	P
8880	51.6	-2.4	54	55.71	38	16.1	58.21	100	155	A
10155	55.44	-18.56	74	59.27	38.81	17.32	59.96	400	211	P
10155	53.3	-0.7	54	57.13	38.81	17.32	59.96	400	211	A
11415	55.3	-18.7	74	59.27	39.28	18.32	61.57	400	188	P
11415	52.37	-1.63	54	56.34	39.28	18.32	61.57	400	188	A
12690	50.25	-23.75	74	54.48	39.38	19.43	63.04	100	236	P
12690	49.7	-4.3	54	53.93	39.38	19.43	63.04	100	236	A
13965	51.13	-22.87	74	53.34	40.47	20.49	63.17	100	122	P
13965	47	-7	54	49.21	40.47	20.49	63.17	100	122	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Horizontal
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		



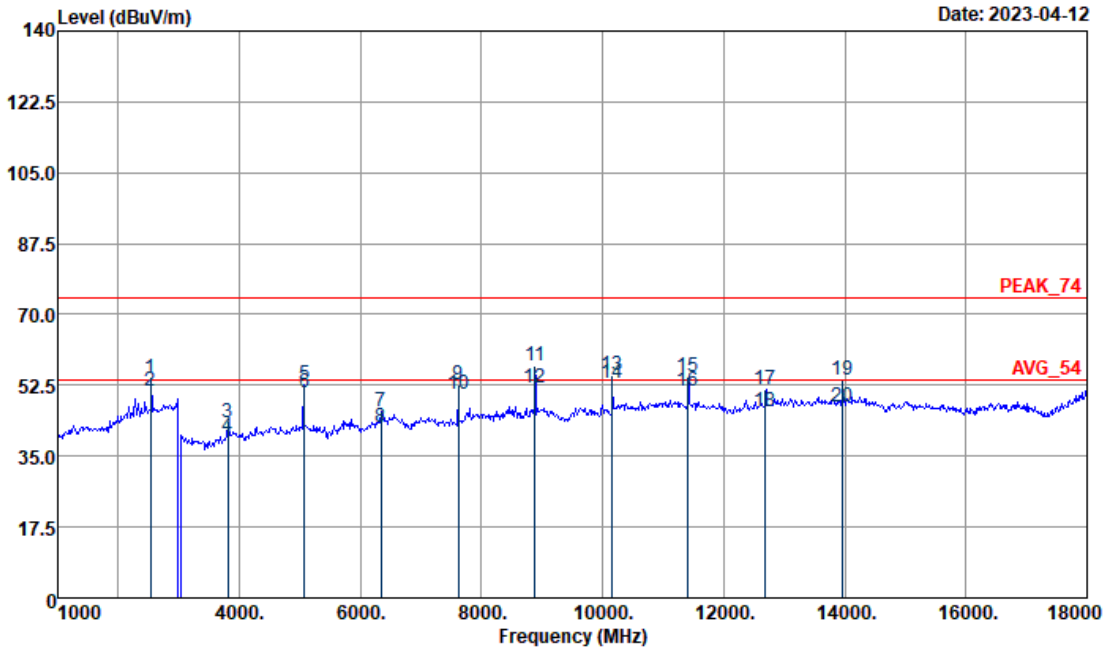
Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120b\_01620\_220824 HORIZONTAL  
Project : 331706



Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	53.85	-20.15	74	52.57	28.05	7.38	34.15	100	163	P
2538	51.71	-2.29	54	50.43	28.05	7.38	34.15	100	163	A
3810	48.22	-25.78	74	65.11	30.68	10.86	58.43	300	143	P
3810	46.22	-7.78	54	63.11	30.68	10.86	58.43	300	143	A
5070	48.05	-25.95	74	60.89	33.22	12.07	58.13	115	222	P
5070	44.69	-9.31	54	57.53	33.22	12.07	58.13	115	222	A
6345	49.6	-24.4	74	60.29	34.59	13.36	58.64	100	211	P
6345	43.07	-10.93	54	53.76	34.59	13.36	58.64	100	211	A
7620	51.51	-22.49	74	58.94	36.24	14.98	58.65	300	190	P
7620	48.12	-5.88	54	55.55	36.24	14.98	58.65	300	190	A
8880	51.3	-22.7	74	55.41	38	16.1	58.21	100	95	P
8880	46.5	-7.5	54	50.61	38	16.1	58.21	100	95	A
10155	55.88	-18.12	74	59.71	38.81	17.32	59.96	100	130	P
10155	53.48	-0.52	54	57.31	38.81	17.32	59.96	100	130	A
11415	53.35	-20.65	74	57.32	39.28	18.32	61.57	300	90	P
11415	49.26	-4.74	54	53.23	39.28	18.32	61.57	300	90	A
12690	52.89	-21.11	74	57.12	39.38	19.43	63.04	100	215	P
12690	48.8	-5.2	54	53.03	39.38	19.43	63.04	100	215	A
13965	53.18	-20.82	74	55.39	40.47	20.49	63.17	300	152	P
13965	48.59	-5.41	54	50.8	40.47	20.49	63.17	300	152	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Vertical
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		



Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120D\_01620\_220824 VERTICAL  
Project : 331706

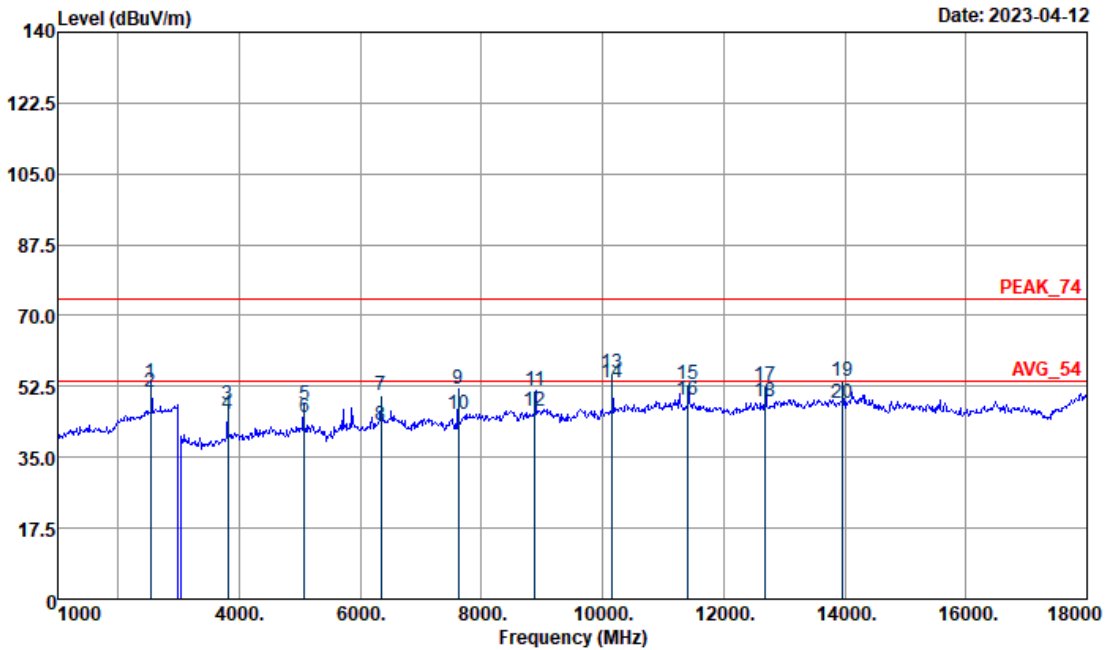




Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	54.2	-19.8	74	52.92	28.05	7.38	34.15	165	2	P
2538	51.14	-2.86	54	49.86	28.05	7.38	34.15	165	2	A
3810	43.33	-30.67	74	60.22	30.68	10.86	58.43	300	205	P
3810	39.63	-14.37	54	56.52	30.68	10.86	58.43	300	205	A
5070	52.7	-21.3	74	65.54	33.22	12.07	58.13	205	177	P
5070	50.69	-3.31	54	63.53	33.22	12.07	58.13	205	177	A
6345	45.85	-28.15	74	56.54	34.59	13.36	58.64	300	50	P
6345	42.03	-11.97	54	52.72	34.59	13.36	58.64	300	50	A
7620	52.58	-21.42	74	60.01	36.24	14.98	58.65	280	199	P
7620	50.18	-3.82	54	57.61	36.24	14.98	58.65	280	199	A
8880	57.16	-16.84	74	61.27	38	16.1	58.21	100	133	P
8880	52.03	-1.97	54	56.14	38	16.1	58.21	100	133	A
10155	55.08	-18.92	74	58.91	38.81	17.32	59.96	388	205	P
10155	53.19	-0.81	54	57.02	38.81	17.32	59.96	388	205	A
11415	54.67	-19.33	74	58.64	39.28	18.32	61.57	300	228	P
11415	51.15	-2.85	54	55.12	39.28	18.32	61.57	300	228	A
12690	51.41	-22.59	74	55.64	39.38	19.43	63.04	100	255	P
12690	45.95	-8.05	54	50.18	39.38	19.43	63.04	100	255	A
13965	54	-20	74	56.21	40.47	20.49	63.17	100	132	P
13965	47	-7	54	49.21	40.47	20.49	63.17	100	132	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Horizontal
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		



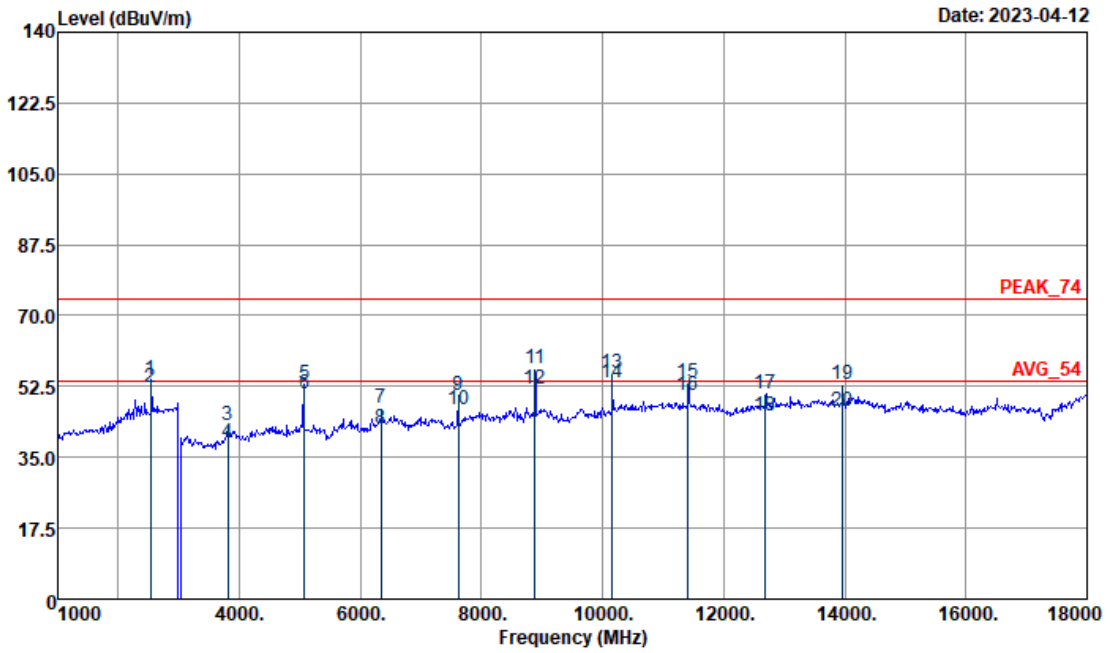
Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120D\_01620\_220824 HORIZONTAL  
Project : 331706



Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	53.32	-20.68	74	52.04	28.05	7.38	34.15	100	160	P
2538	51.17	-2.83	54	49.89	28.05	7.38	34.15	100	160	A
3810	48.06	-25.94	74	64.95	30.68	10.86	58.43	300	166	P
3810	45.66	-8.34	54	62.55	30.68	10.86	58.43	300	166	A
5070	48.08	-25.92	74	60.92	33.22	12.07	58.13	120	210	P
5070	44.67	-9.33	54	57.51	33.22	12.07	58.13	120	210	A
6345	50.33	-23.67	74	61.02	34.59	13.36	58.64	100	177	P
6345	42.73	-11.27	54	53.42	34.59	13.36	58.64	100	177	A
7620	52.03	-21.97	74	59.46	36.24	14.98	58.65	291	183	P
7620	45.68	-8.32	54	53.11	36.24	14.98	58.65	291	183	A
8880	51.48	-22.52	74	55.59	38	16.1	58.21	100	75	P
8880	46.3	-7.7	54	50.41	38	16.1	58.21	100	75	A
10155	55.71	-18.29	74	59.54	38.81	17.32	59.96	122	122	P
10155	53.36	-0.64	54	57.19	38.81	17.32	59.96	122	122	A
11415	53.08	-20.92	74	57.05	39.28	18.32	61.57	305	88	P
11415	49.02	-4.98	54	52.99	39.28	18.32	61.57	305	88	A
12690	52.83	-21.17	74	57.06	39.38	19.43	63.04	100	133	P
12690	48.85	-5.15	54	53.08	39.38	19.43	63.04	100	133	A
13965	53.89	-20.11	74	56.1	40.47	20.49	63.17	299	106	P
13965	48.5	-5.5	54	50.71	40.47	20.49	63.17	299	106	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Vertical
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		



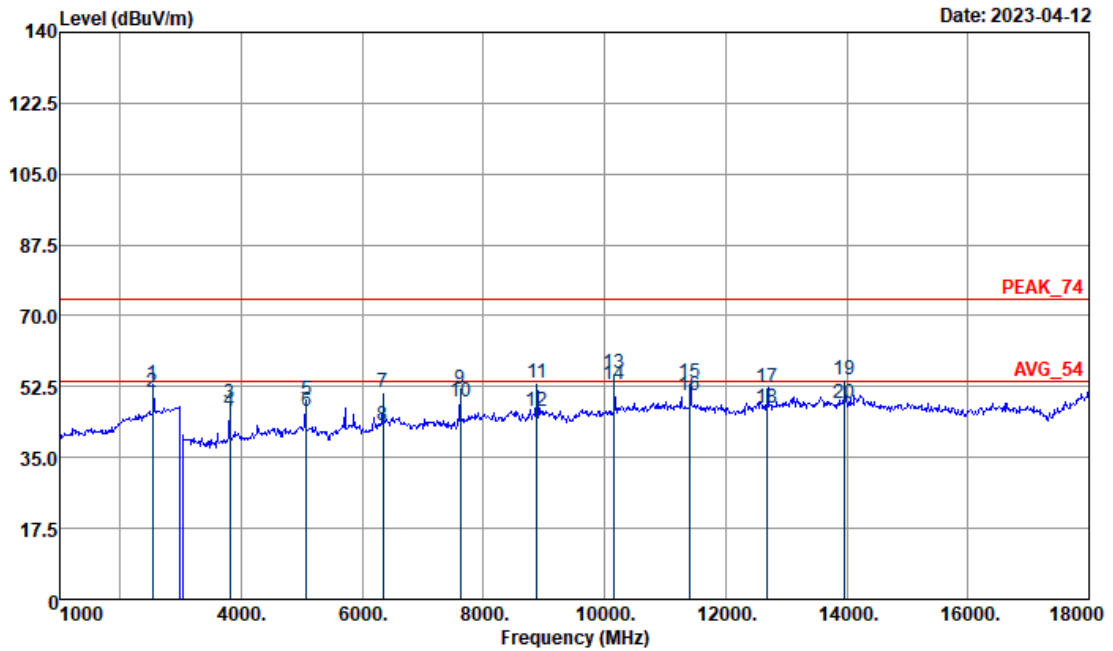
Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120D\_01620\_220824 VERTICAL  
Project : 331706



Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	54.38	-19.62	74	53.1	28.05	7.38	34.15	165	0	P
2538	52.43	-1.57	54	51.15	28.05	7.38	34.15	165	0	A
3810	42.97	-31.03	74	59.86	30.68	10.86	58.43	297	178	P
3810	38.44	-15.56	54	55.33	30.68	10.86	58.43	297	178	A
5070	53.03	-20.97	74	65.87	33.22	12.07	58.13	100	173	P
5070	50.69	-3.31	54	63.53	33.22	12.07	58.13	100	173	A
6345	47.23	-26.77	74	57.92	34.59	13.36	58.64	278	73	P
6345	42.23	-11.77	54	52.92	34.59	13.36	58.64	278	73	A
7620	50.35	-23.65	74	57.78	36.24	14.98	58.65	290	198	P
7620	46.9	-7.1	54	54.33	36.24	14.98	58.65	290	198	A
8880	56.8	-17.2	74	60.91	38	16.1	58.21	103	119	P
8880	51.7	-2.3	54	55.81	38	16.1	58.21	103	119	A
10155	55.88	-18.12	74	59.71	38.81	17.32	59.96	393	203	P
10155	53.29	-0.71	54	57.12	38.81	17.32	59.96	393	203	A
11415	53.55	-20.45	74	57.52	39.28	18.32	61.57	400	188	P
11415	50.26	-3.74	54	54.23	39.28	18.32	61.57	400	188	A
12690	50.58	-23.42	74	54.81	39.38	19.43	63.04	100	283	P
12690	45.3	-8.7	54	49.53	39.38	19.43	63.04	100	283	A
13965	53.1	-20.9	74	55.31	40.47	20.49	63.17	100	187	P
13965	46.5	-7.5	54	48.71	40.47	20.49	63.17	100	187	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Horizontal
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		



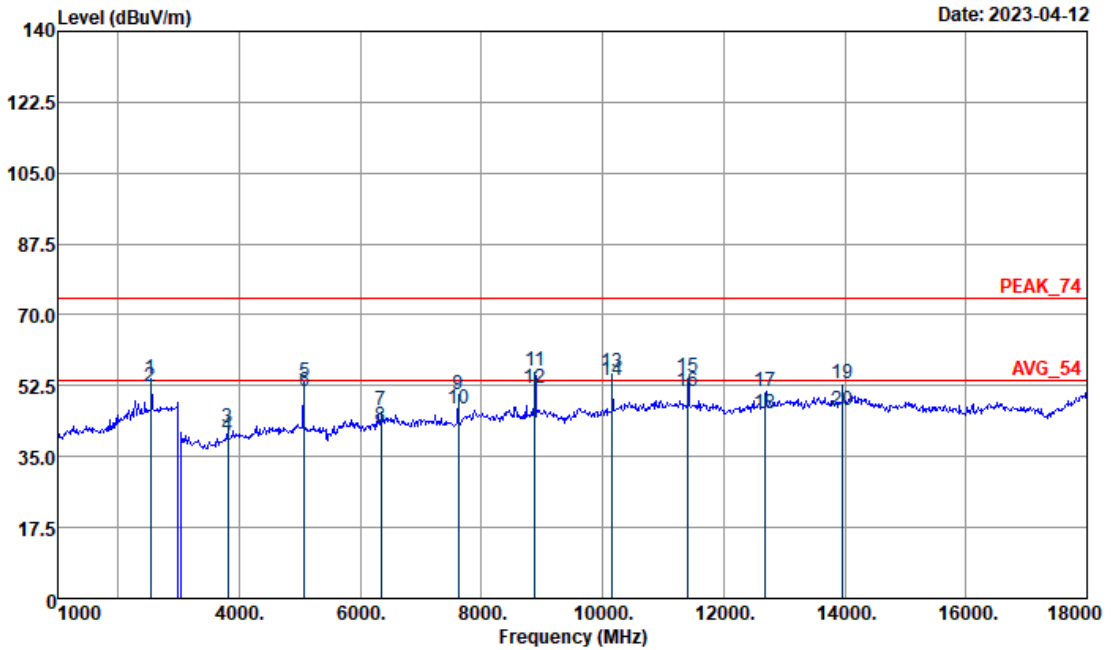
Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120D\_01620\_220824 HORIZONTAL  
Project : 331706



Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level ( dB $\mu$ V )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	52.93	-21.07	74	51.65	28.05	7.38	34.15	100	162	P
2538	51.21	-2.79	54	49.93	28.05	7.38	34.15	100	162	A
3810	48.26	-25.74	74	65.15	30.68	10.86	58.43	100	177	P
3810	46.26	-7.74	54	63.15	30.68	10.86	58.43	100	177	A
5070	49.13	-24.87	74	61.97	33.22	12.07	58.13	166	208	P
5070	46.38	-7.62	54	59.22	33.22	12.07	58.13	166	208	A
6345	51.09	-22.91	74	61.78	34.59	13.36	58.64	290	28	P
6345	42.83	-11.17	54	53.52	34.59	13.36	58.64	290	28	A
7620	51.9	-22.1	74	59.33	36.24	14.98	58.65	305	199	P
7620	48.79	-5.21	54	56.22	36.24	14.98	58.65	305	199	A
8880	53.55	-20.45	74	57.66	38	16.1	58.21	108	133	P
8880	46.23	-7.77	54	50.34	38	16.1	58.21	108	133	A
10155	55.74	-18.26	74	59.57	38.81	17.32	59.96	113	138	P
10155	53.19	-0.81	54	57.02	38.81	17.32	59.96	113	138	A
11415	53.34	-20.66	74	57.31	39.28	18.32	61.57	385	197	P
11415	50.25	-3.75	54	54.22	39.28	18.32	61.57	385	197	A
12690	52.42	-21.58	74	56.65	39.38	19.43	63.04	109	233	P
12690	47.1	-6.9	54	51.33	39.38	19.43	63.04	109	233	A
13965	54.08	-19.92	74	56.29	40.47	20.49	63.17	121	211	P
13965	48.48	-5.52	54	50.69	40.47	20.49	63.17	121	211	A



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Fu Chen	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Vertical
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		



Site : 03CH11-HY  
Condition : PEAK\_74 3m 9120D\_01620\_220824 VERTICAL  
Project : 331706



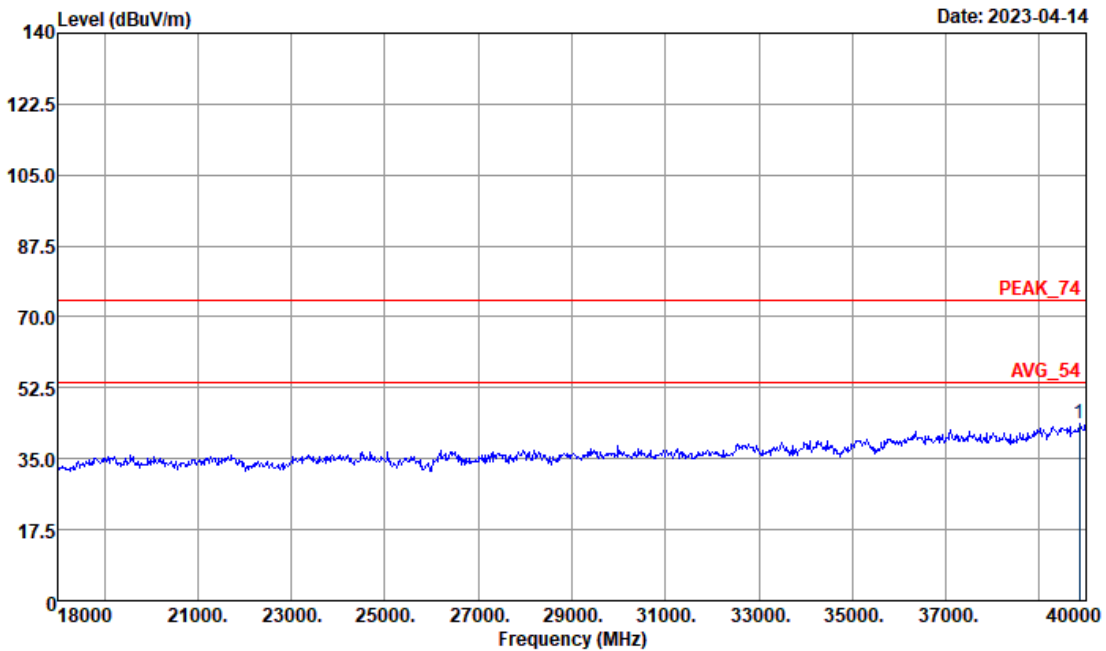


Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2538	54.22	-19.78	74	52.94	28.05	7.38	34.15	165	0	P
2538	52.42	-1.58	54	51.14	28.05	7.38	34.15	165	0	A
3810	42.23	-31.77	74	59.12	30.68	10.86	58.43	100	193	P
3810	40.22	-13.78	54	57.11	30.68	10.86	58.43	100	193	A
5070	53.26	-20.74	74	66.1	33.22	12.07	58.13	108	166	P
5070	51.19	-2.81	54	64.03	33.22	12.07	58.13	108	166	A
6345	46.31	-27.69	74	57	34.59	13.36	58.64	277	43	P
6345	42.59	-11.41	54	53.28	34.59	13.36	58.64	277	43	A
7620	50.41	-23.59	74	57.84	36.24	14.98	58.65	580	196	P
7620	46.69	-7.31	54	54.12	36.24	14.98	58.65	580	196	A
8880	56.34	-17.66	74	60.45	38	16.1	58.21	105	132	P
8880	51.7	-2.3	54	55.81	38	16.1	58.21	105	132	A
10155	55.88	-18.12	74	59.71	38.81	17.32	59.96	388	211	P
10155	53.85	-0.15	54	57.68	38.81	17.32	59.96	388	211	A
11415	54.59	-19.41	74	58.56	39.28	18.32	61.57	385	186	P
11415	51.26	-2.74	54	55.23	39.28	18.32	61.57	385	186	A
12690	51.14	-22.86	74	55.37	39.38	19.43	63.04	100	251	P
12690	45.78	-8.22	54	50.01	39.38	19.43	63.04	100	251	A
13965	52.98	-21.02	74	55.19	40.47	20.49	63.17	100	116	P
13965	46.38	-7.62	54	48.59	40.47	20.49	63.17	100	116	A



<18GHz to 40GHz>

Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Horizontal
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		

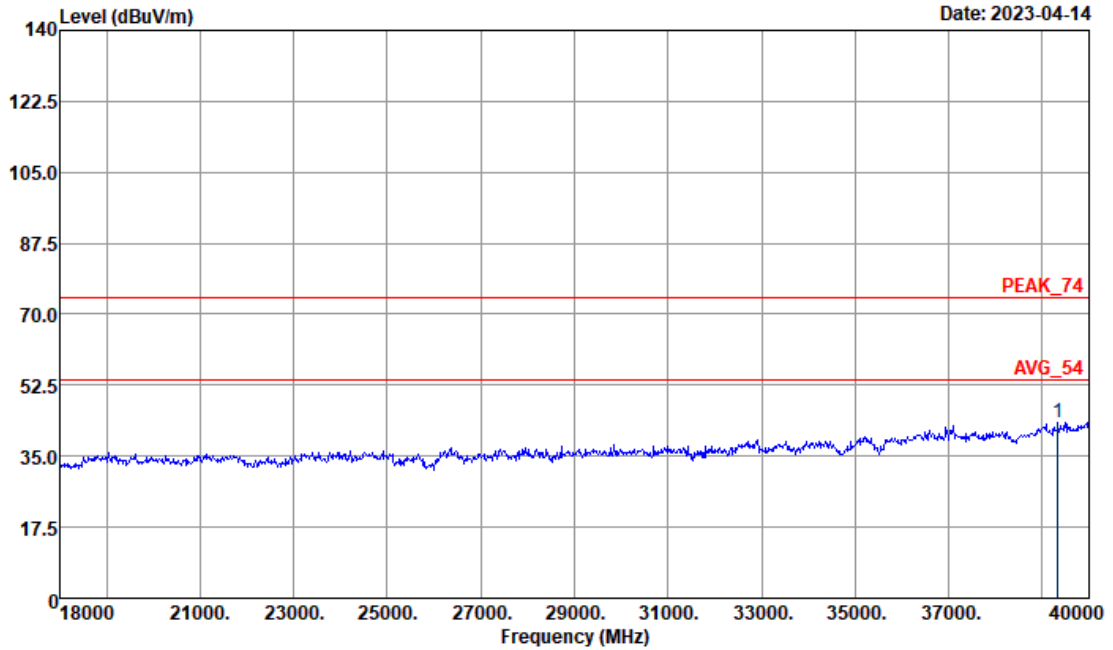


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39860	43.74	-9.54	-30.26	74	55.27	44.58	9.37	55.94	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Vertical
Test Configuration	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		

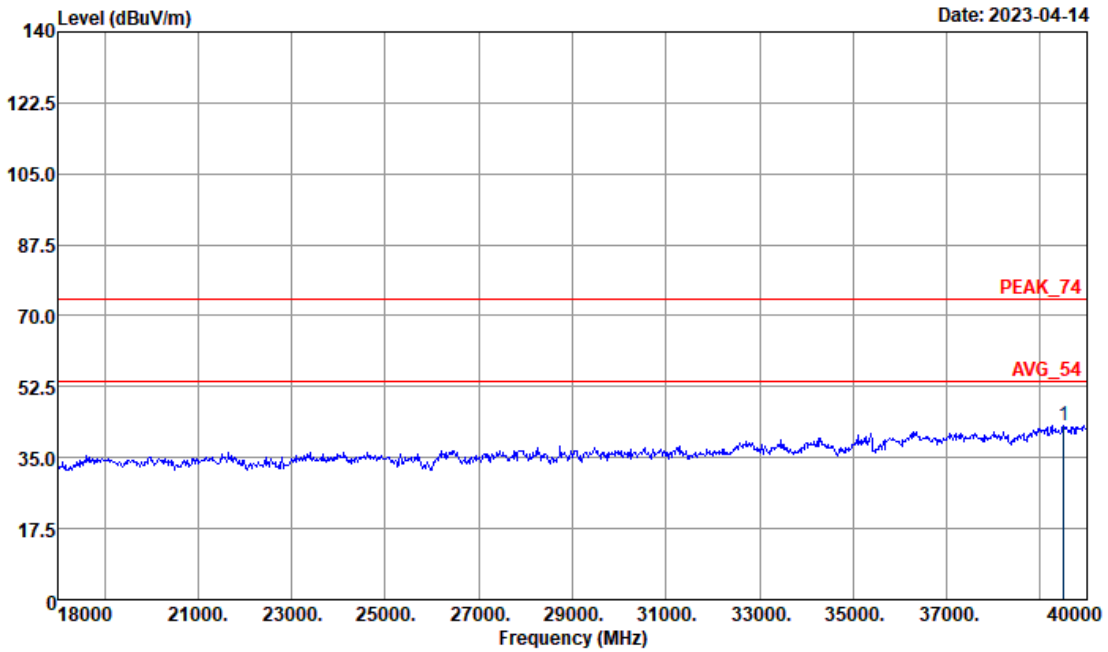


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39328	43.26	-9.54	-30.74	74	55.76	44.43	9.05	56.44	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Horizontal
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

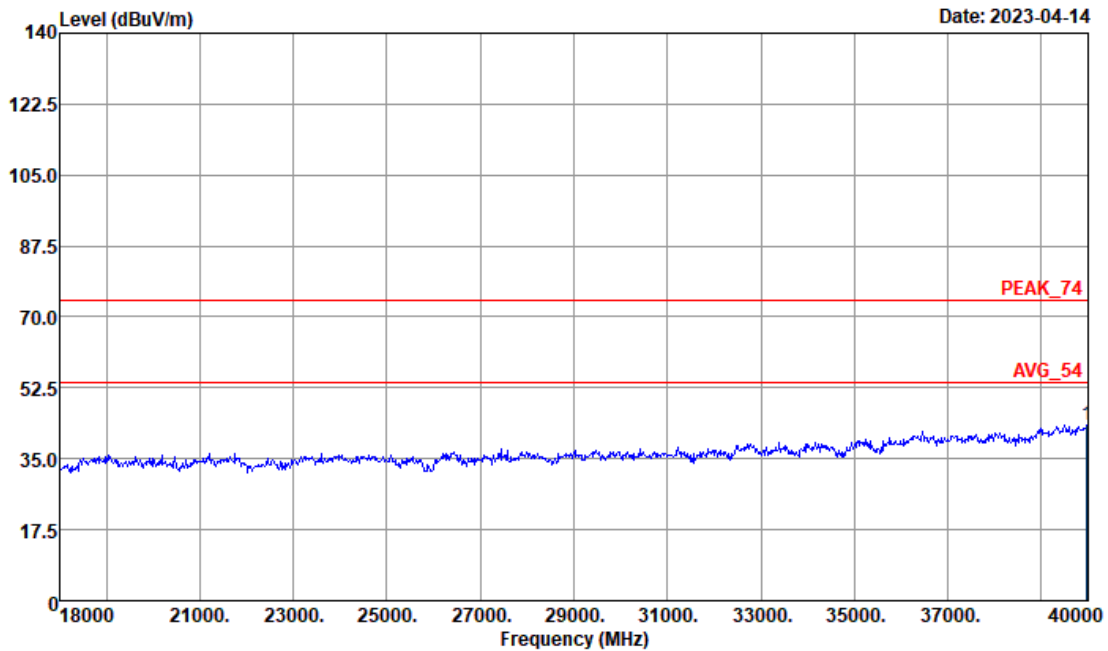


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39496	43.04	-9.54	-30.96	74	55.31	44.5	9.07	56.3	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Vertical
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

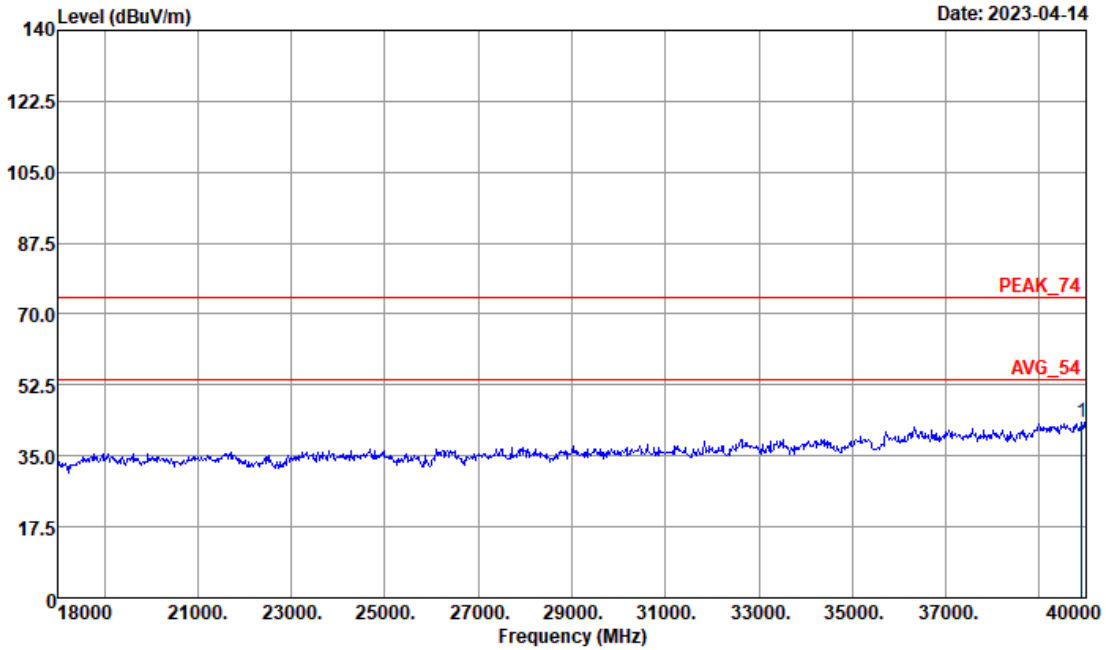


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39972	43.17	-9.54	-30.83	74	54.32	44.76	9.46	55.83	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Horizontal
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		

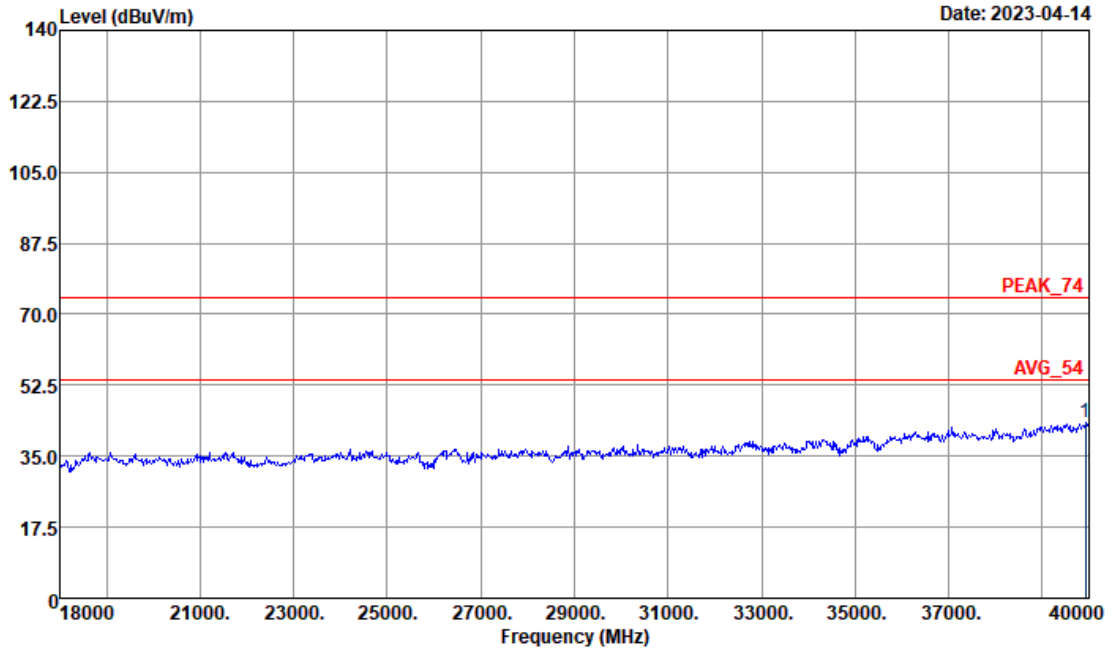


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39902	43.34	-9.54	-30.66	74	54.74	44.64	9.4	55.9	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Vertical
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		

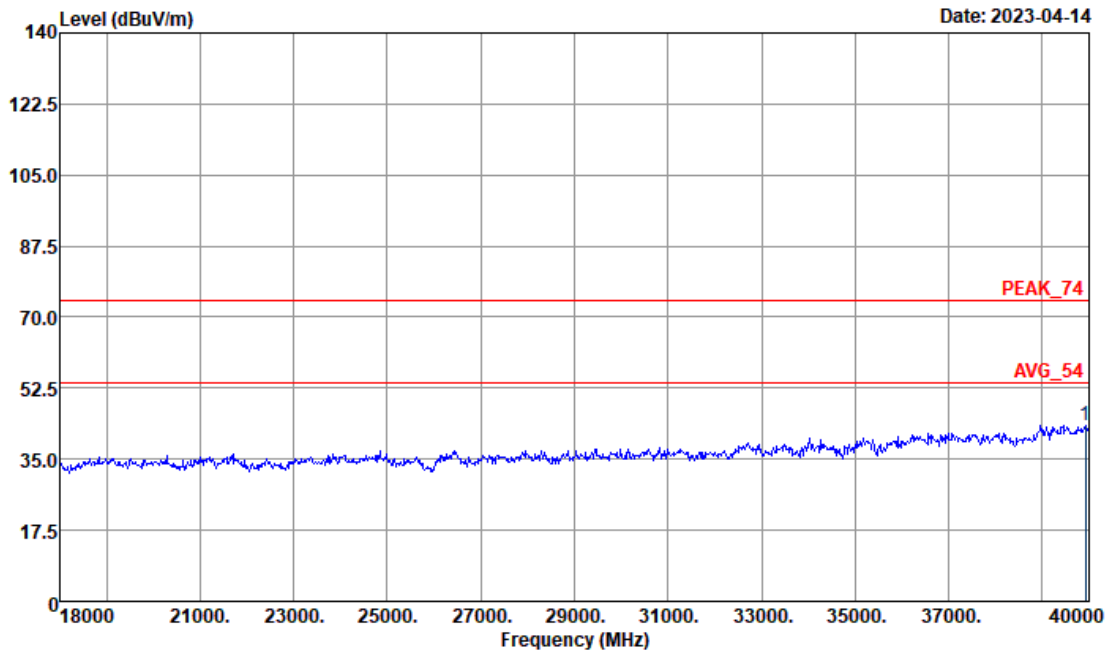


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39930	43.13	-9.54	-30.87	74	54.43	44.69	9.42	55.87	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Horizontal
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		



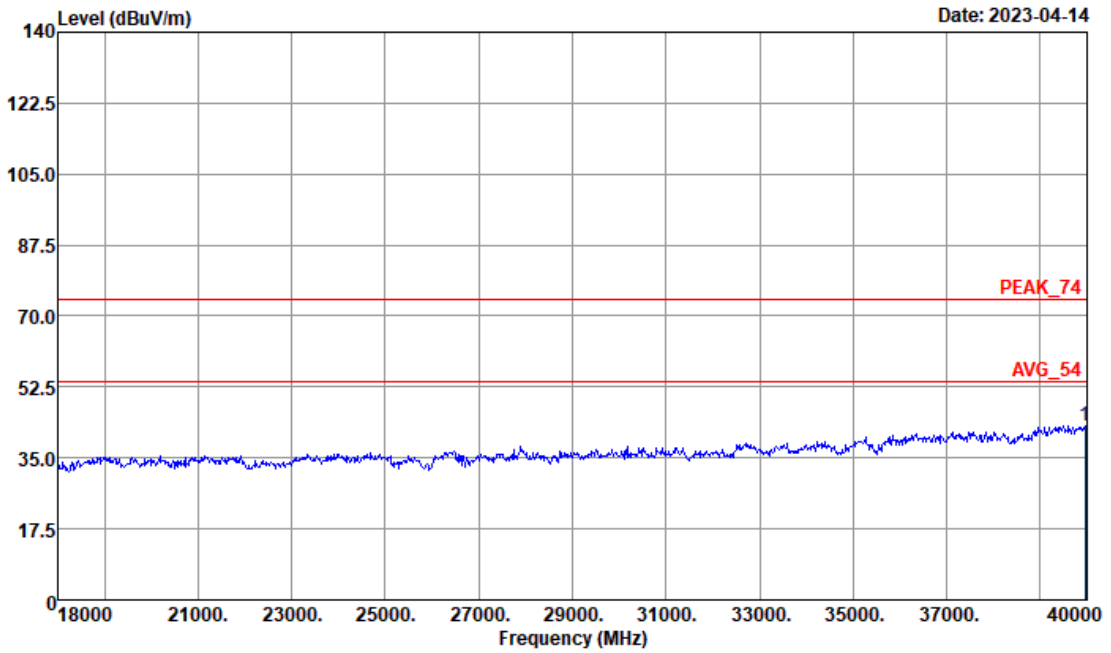
Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39930	43.48	-9.54	-30.52	74	54.78	44.69	9.42	55.87	-	-	P





Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Vertical
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		

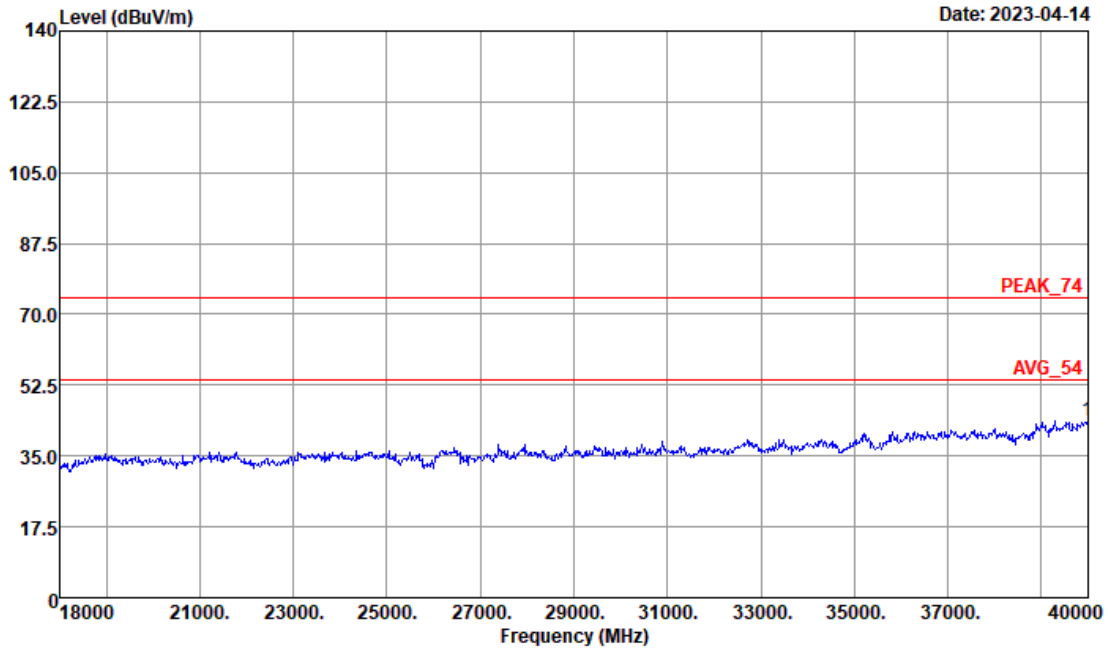


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39958	43.09	-9.54	-30.91	74	54.29	44.73	9.45	55.84	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Horizontal
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		

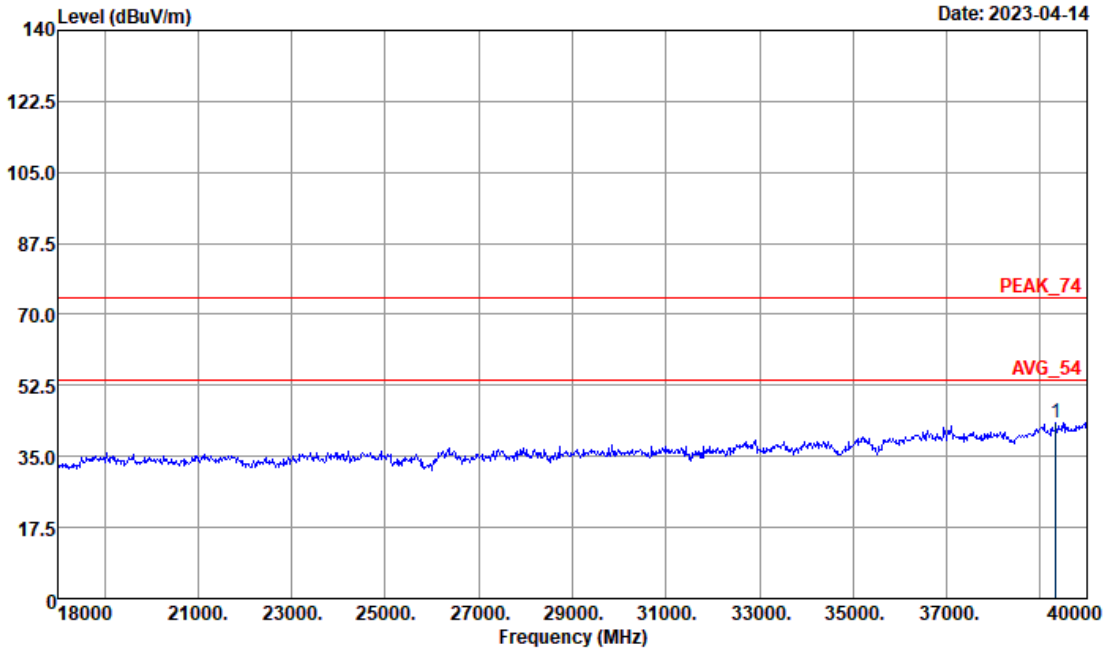


Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 HORIZONTAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39986	43.54	-9.54	-30.46	74	54.64	44.78	9.47	55.81	-	-	P



Temperature	19.1 ~ 24.3°C	Relative Humidity	52.4 ~ 68.5%
Test Engineer	Bank Lin	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Vertical
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		



Site : 03CH11-HY  
 Condition : PEAK\_74 1m SHF\_00994\_221104 VERTICAL

Frequency ( MHz )	Level ( dBμV/m )	Distance extrapolation Factor ( dB )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
39328	43.26	-9.54	-30.74	74	55.76	44.43	9.05	56.44	-	-	P



<40GHz to 200GHz>

<b>Temperature</b>	21.1 ~ 23.5°C	<b>Relative Humidity</b>	61.4 ~ 65.3%
<b>Test Engineer</b>	Eric Jeng	<b>Test Range</b>	40GHz to 200GHz
<b>Test Configuration</b>	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2_60.480GHz		

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
40 - 57	22.64	0.87	46.2771	-103.51
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-50.86	3	0.006911	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
71 - 90	22.4	0.6	88.8515	-102.49
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-43.93	3	0.035772	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
90 - 140	22.4	0.43	135.4416	-94.76
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-32.54	3	0.49266	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
140 - 200	22.8	0.27	170.708	-92.72
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-28.89	3	1.141689	90	PASS



Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng	Test Range	40GHz to 200GHz
Test Configuration	Mode 2: 60G Tx (HRP)_Channel Index 3_CH2_62.640GHz		

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
40 - 57	22.64	0.87	48.584	-103.95
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-50.88	3	0.00722	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
71 - 90	22.4	0.6	88.5426	-102.76
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-44.23	3	0.033385	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
90 - 140	22.4	0.43	135.4366	-95.02
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-32.8	3	0.464032	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
140 - 200	22.8	0.27	170.647	-93.05
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-29.22	3	1.058151	90	PASS



Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng	Test Range	40GHz to 200GHz
Test Configuration	Mode 3: 60G Tx (LRP)_Channel Index 2_CH0_60.163GHz		

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
40 - 57	22.64	0.87	48.6	-104.02
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-50.94	3	0.007121	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
71 - 90	22.4	0.6	89.4985	-102.92
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-44.3	3	0.032851	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
90 - 140	22.4	0.43	135.4376	-95.23
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-33.01	3	0.442128	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
140 - 200	22.8	0.27	170.593	-93.08
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-29.26	3	1.04845	90	PASS



Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng	Test Range	40GHz to 200GHz
Test Configuration	Mode 4: 60G Tx (LRP)_Channel Index 2_CH4_60.797GHz		

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
40 - 57	22.64	0.87	46.0801	-103.75
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-51.14	3	0.006801	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
71 - 90	22.4	0.6	88.6096	-102.56
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-44.03	3	0.034958	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
90 - 140	22.4	0.43	135.5246	-95.21
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-32.99	3	0.444168	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
140 - 200	22.8	0.27	170.652	-93.08
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-29.25	3	1.050867	90	PASS



Temperature	21.1 ~ 23.5°C	Relative Humidity	61.4 ~ 65.3%
Test Engineer	Eric Jeng	Test Range	40GHz to 200GHz
Test Configuration	Mode 5: 60G Tx (LRP)_Channel Index 3_CH4_62.957GHz		

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
40 - 57	22.64	0.87	48.579	-104.14
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-51.07	3	0.006911	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
71 - 90	22.4	0.6	89.0435	-102.51
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-43.93	3	0.035772	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
90 - 140	22.4	0.43	135.5786	-95.28
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-33.05	3	0.438074	90	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
140 - 200	22.8	0.27	170.883	-93.05
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm <sup>2</sup> )	Limit (pW/cm <sup>2</sup> )	Test Result
-29.21	3	1.06059	90	PASS





### 3.7 Frequency Stability

#### 3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency range, 57GHz – 71GHz.

#### 3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.7.3 Test Procedures

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

#### 3.7.4 Test Result

Test Engineer	Eric Jeng			
Test Conditions	60G Tx (LRP)_Channel Index 2_CH4			Limit
Test Temperature (°C)	Voltage (Volt)	Measured Frequency (GHz)	Delta Frequency (±MHz)	Result
50	120	60.80549	-6.245	Within band
40	120	60.8055	-6.25	
30	120	60.80075	-1.505	
20 (ref)	120	60.79925	0	
10	120	60.79975	-0.505	
0	120	60.79775	1.5	
-10	120	60.80425	-5	
-20	120	60.8055	-6.25	
20	102	60.79875	0.5	
20	138	60.79525	4	



## 4 AC conducted Emission Measurement

### 4.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

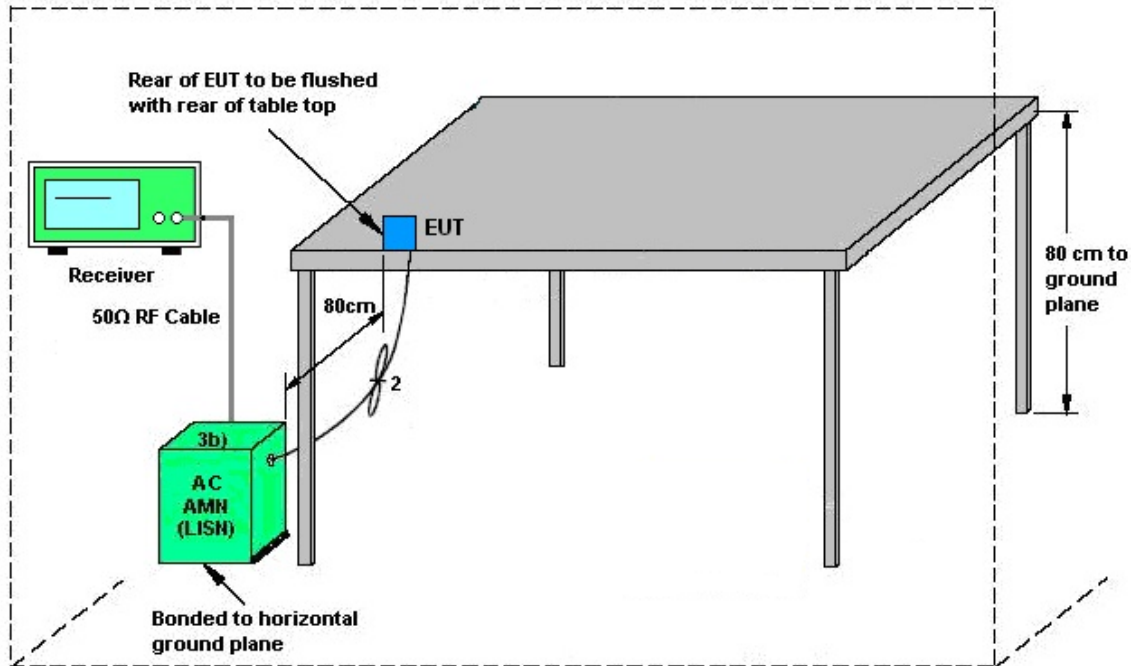
### 4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 4.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 4.4 Test Setup

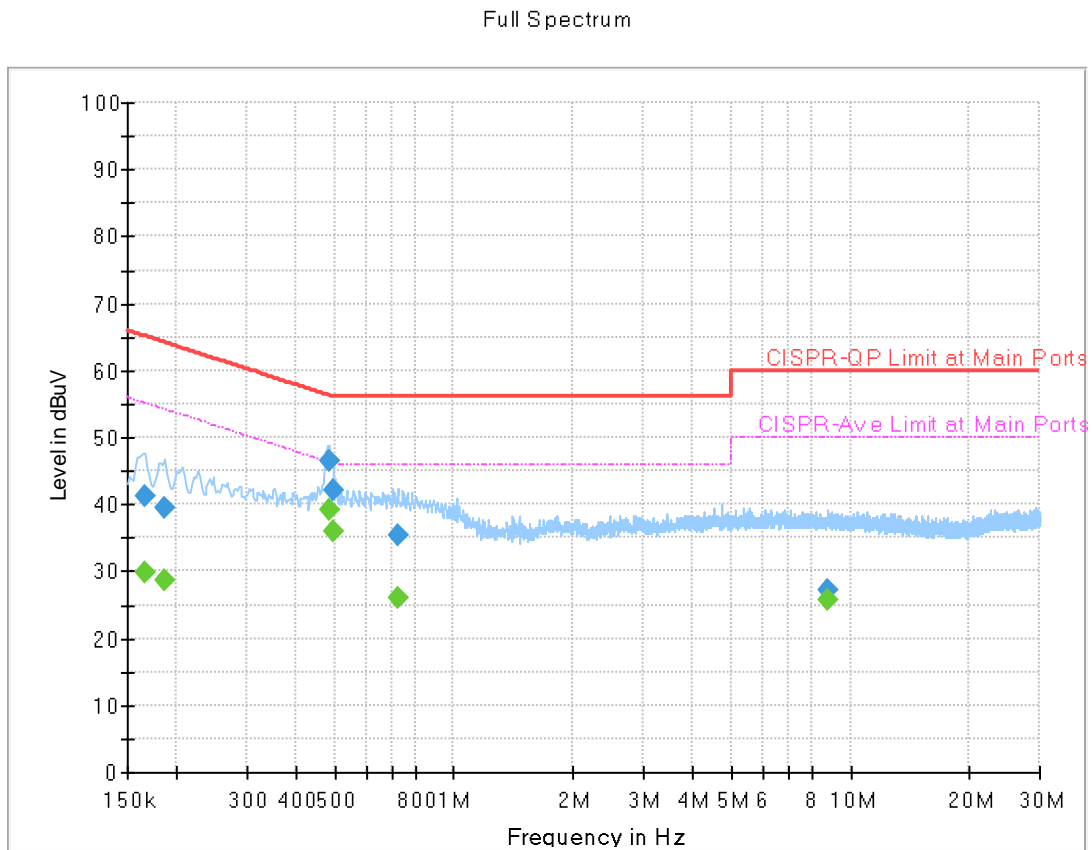


AMN = Artificial mains network (LISN)  
AE = Associated equipment  
EUT = Equipment under test  
ISN = Impedance stabilization network



### 4.5 Test Result of AC Conducted Emission

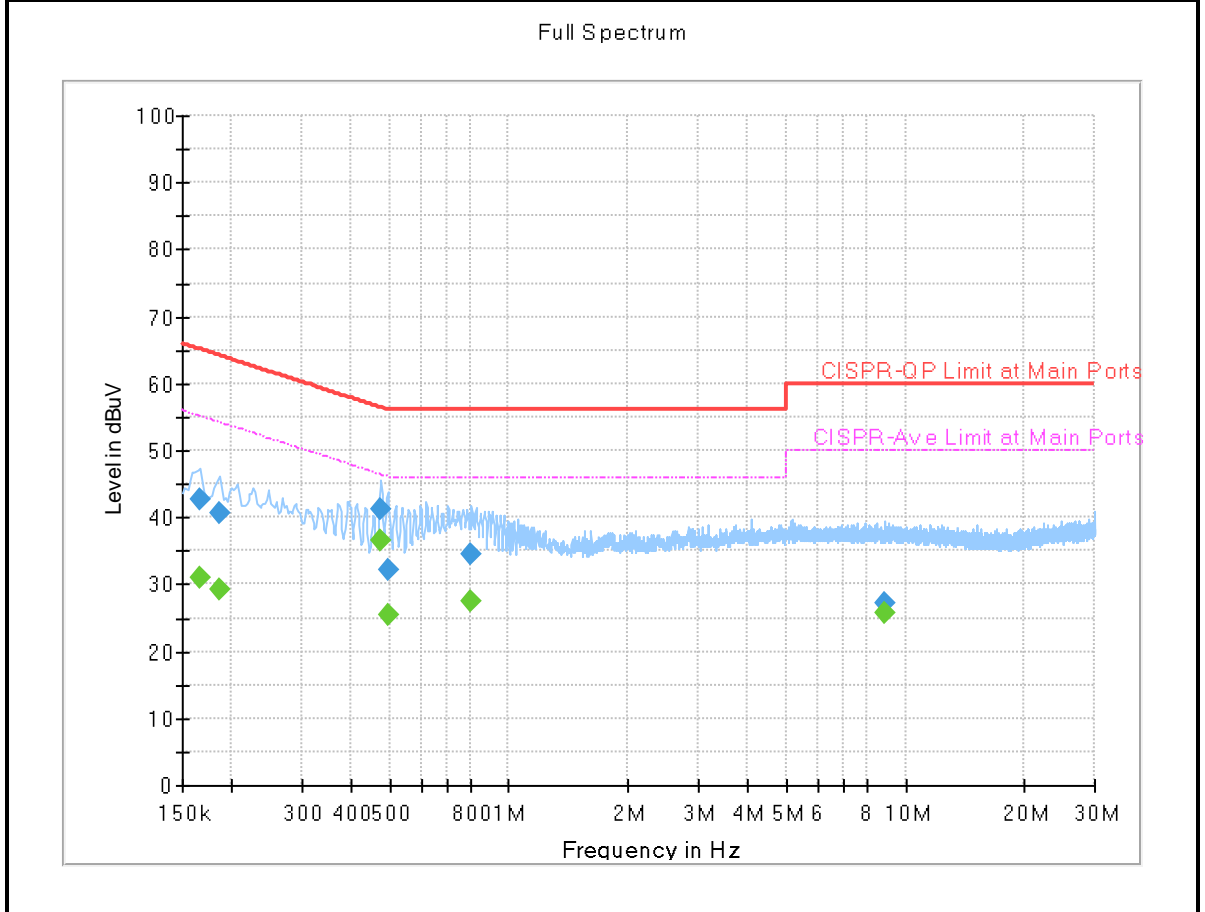
Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Test mode :	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2 + USB Cable (Charging from AC Adapter)		



Frequency ( MHz )	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	29.91	55.17	25.26	L1	OFF	19.9
0.165750	41.36	---	65.17	23.81	L1	OFF	19.9
0.186000	---	28.64	54.21	25.57	L1	OFF	19.9
0.186000	39.49	---	64.21	24.72	L1	OFF	19.9
0.483000	---	39.27	46.29	7.02	L1	OFF	19.9
0.483000	46.36	---	56.29	9.93	L1	OFF	19.9
0.496500	---	35.91	46.06	10.15	L1	OFF	19.9
0.496500	42.16	---	56.06	13.90	L1	OFF	19.9
0.721500	---	26.17	46.00	19.83	L1	OFF	19.9
0.721500	35.36	---	56.00	20.64	L1	OFF	19.9
8.736000	---	25.62	50.00	24.38	L1	OFF	20.2
8.736000	27.30	---	60.00	32.70	L1	OFF	20.2



Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Test mode :	Mode 1: 60G Tx (HRP)_Channel Index 2_CH2 + USB Cable (Charging from AC Adapter)		

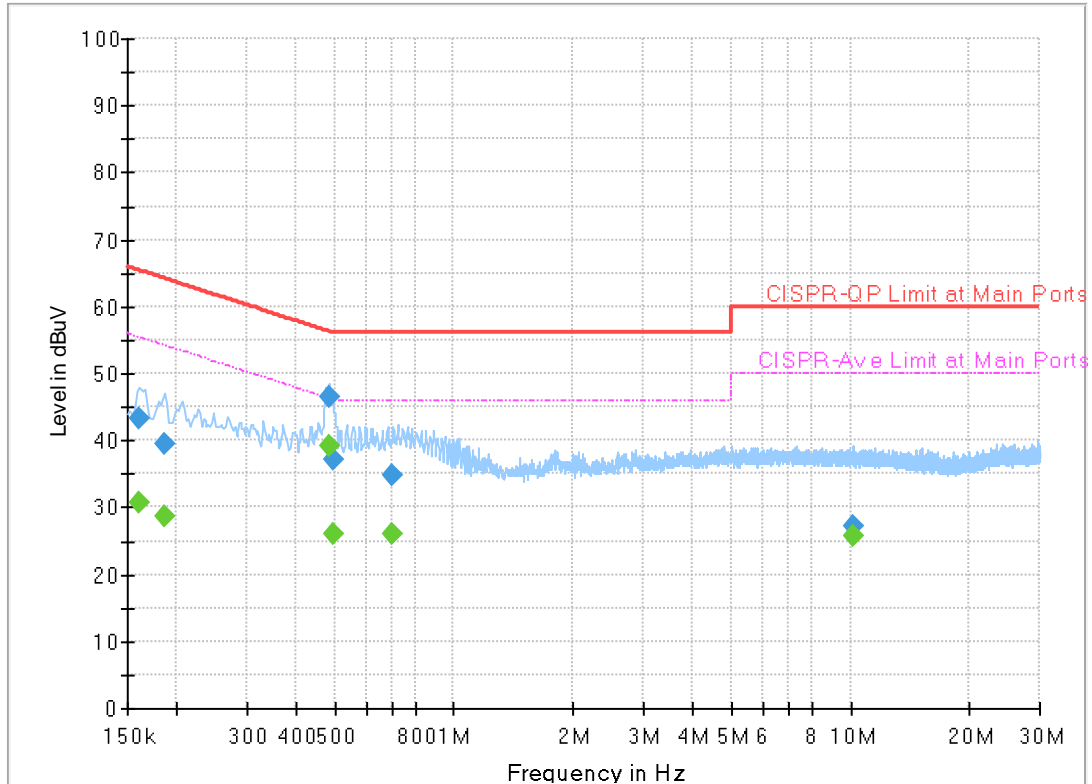


Frequency ( MHz )	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	31.08	55.17	24.09	N	OFF	19.9
0.165750	42.77	---	65.17	22.40	N	OFF	19.9
0.186000	---	29.20	54.21	25.01	N	OFF	19.9
0.186000	40.53	---	64.21	23.68	N	OFF	19.9
0.471750	---	36.56	46.48	9.92	N	OFF	19.9
0.471750	41.15	---	56.48	15.33	N	OFF	19.9
0.494250	---	25.44	46.10	20.66	N	OFF	19.9
0.494250	32.06	---	56.10	24.04	N	OFF	19.9
0.804750	---	27.49	46.00	18.51	N	OFF	19.9
0.804750	34.48	---	56.00	21.52	N	OFF	19.9
8.900250	---	25.73	50.00	24.27	N	OFF	20.2
8.900250	27.28	---	60.00	32.72	N	OFF	20.2



<b>Test Engineer :</b>	Calvin Wang	<b>Temperature :</b>	23~26°C
		<b>Relative Humidity :</b>	45~55%
<b>Test Voltage :</b>	120Vac / 60Hz	<b>Phase :</b>	Line
<b>Test mode :</b>	Mode 2: 60G Tx (LRP)_Channel Index 2_CH4 + USB Cable (Charging from AC Adapter)		

Full Spectrum

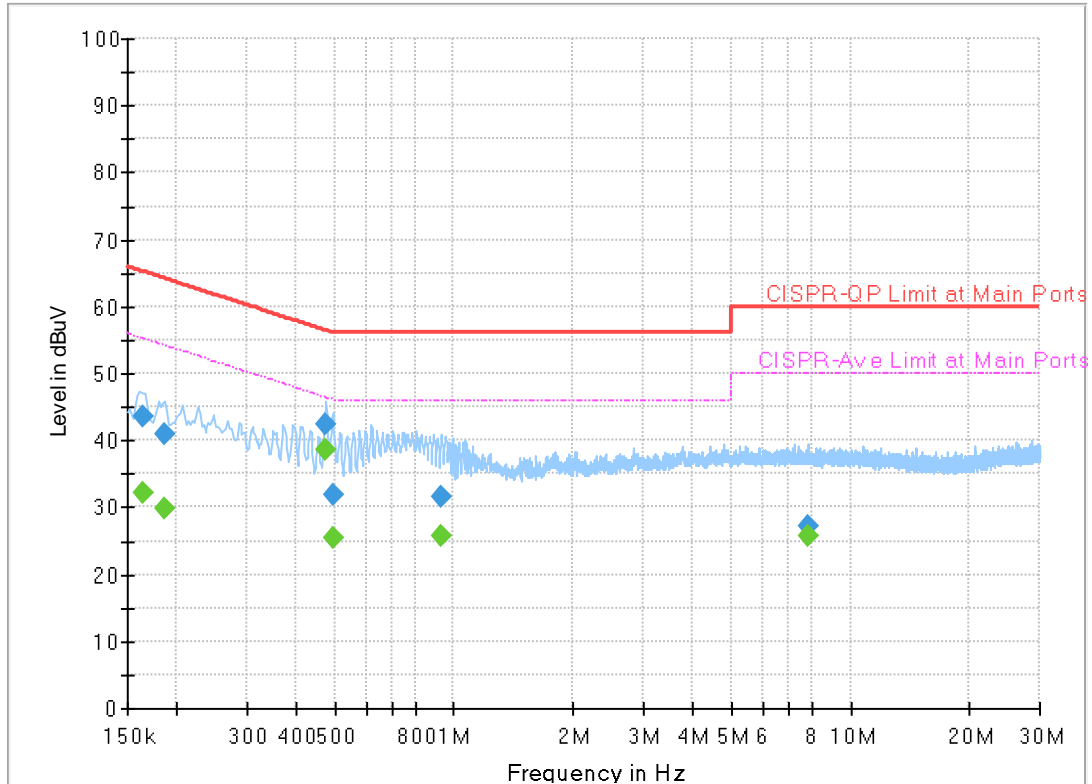


Frequency ( MHz )	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	30.77	55.40	24.63	L1	OFF	19.9
0.161250	43.20	---	65.40	22.20	L1	OFF	19.9
0.186000	---	28.69	54.21	25.52	L1	OFF	19.9
0.186000	39.55	---	64.21	24.66	L1	OFF	19.9
0.483000	---	39.24	46.29	7.05	L1	OFF	19.9
0.483000	46.41	---	56.29	9.88	L1	OFF	19.9
0.496500	---	25.93	46.06	20.13	L1	OFF	19.9
0.496500	37.13	---	56.06	18.93	L1	OFF	19.9
0.701250	---	25.98	46.00	20.02	L1	OFF	19.9
0.701250	34.66	---	56.00	21.34	L1	OFF	19.9
10.140000	---	25.74	50.00	24.26	L1	OFF	20.2
10.140000	27.34	---	60.00	32.66	L1	OFF	20.2



<b>Test Engineer :</b>	Calvin Wang	<b>Temperature :</b>	23~26°C
		<b>Relative Humidity :</b>	45~55%
<b>Test Voltage :</b>	120Vac / 60Hz	<b>Phase :</b>	Neutral
<b>Test mode :</b>	Mode 2: 60G Tx (LRP)_Channel Index 2_CH4 + USB Cable (Charging from AC Adapter)		

Full Spectrum



Frequency ( MHz )	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	32.10	55.28	23.18	N	OFF	19.9
0.163500	43.44	---	65.28	21.84	N	OFF	19.9
0.186000	---	29.79	54.21	24.42	N	OFF	19.9
0.186000	40.87	---	64.21	23.34	N	OFF	19.9
0.476250	---	38.55	46.40	7.85	N	OFF	19.9
0.476250	42.30	---	56.40	14.10	N	OFF	19.9
0.494250	---	25.55	46.10	20.55	N	OFF	19.9
0.494250	32.00	---	56.10	24.10	N	OFF	19.9
0.928500	---	25.80	46.00	20.20	N	OFF	19.9
0.928500	31.51	---	56.00	24.49	N	OFF	19.9
7.786500	---	25.64	50.00	24.36	N	OFF	20.2
7.786500	27.28	---	60.00	32.72	N	OFF	20.2



## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 28, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Mar. 28, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Mar. 28, 2023	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Mar. 28, 2023	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Mar. 28, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Mar. 28, 2023	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Mar. 28, 2023	Dec. 28, 2023	Conduction (CO05-HY)
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Sep. 19, 2023	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 08, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Oct. 07, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 24, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Aug. 23, 2023	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz~40GHz	Nov. 04, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Nov. 03, 2023	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 09, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Dec. 08, 2023	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 09, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Nov. 08, 2023	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800 055007	1GHz~18GHz	Jun. 15, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Jun. 14, 2023	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Jun. 27, 2023	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 07, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Oct. 06, 2023	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Oct. 17, 2023	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 11, 2023 ~ Apr. 14, 2023	N/A	Radiation (03CH11-HY)





Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 11, 2023 ~ Apr. 14, 2023	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 11, 2023 ~ Apr. 14, 2023	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 11, 2023 ~ Apr. 14, 2023	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 07, 2023	Apr. 11, 2023 ~ Apr. 14, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801595/2	30MHz~40GHz	Mar. 07, 2023	Apr. 11, 2023 ~ Apr. 14, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Apr. 11, 2023 ~ Apr. 14, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 07, 2023	Apr. 11, 2023 ~ Apr. 14, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN11	1.53G Low Pass	Sep. 12, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Sep. 11, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700- 3000-18000-60 SS	SN3	3GHz High Pass Filter	Sep. 12, 2022	Apr. 11, 2023 ~ Apr. 14, 2023	Sep. 11, 2023	Radiation (03CH11-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101009	9kHz to 44GHz	Nov. 22, 2022	Apr. 06, 2023 ~ Apr. 22, 2023	Nov. 21, 2023	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z60	100986	40GHz to 60GHz	Apr. 09, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	Apr. 08, 2024	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z75	101557	50 GHz to 75 GHz	Apr. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	Apr. 05, 2024	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	FSZ-90	101811	60GHz to 90GHz	Nov 16, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	Nov 15, 2024	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z140	101128	90GHz to 140GHz	Oct. 26, 2020	Apr. 06, 2023 ~ Apr. 22, 2023	Oct. 25, 2023	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z220	101014	140GHz to 220GHz	Dec. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	Dec. 05, 2024	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-UPRR00	QWH-UPRR0 0-01	40-60 GHz	July. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	July. 05, 2024	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-VPRR00	1371800009	50-75 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-VPRR00	1371800008	50-75 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-EPRR00	1372000000	60-90 GHz	July. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	July. 05, 2024	Radiation (03CH18-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Antenna	Quinstar	QWH-FPRR00	1011500008	90-140 GHz	July. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	July. 05, 2024	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-GPRR00	QWH-GPRR00-01	140-220 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 22, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801589/2	N/A	Nov 29, 2022	Apr. 06, 2023 ~ Apr. 22, 2023	Nov 28, 2023	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Nov 29, 2022	Apr. 06, 2023 ~ Apr. 22, 2023	Nov 28, 2023	Radiation (03CH18-HY)
Amplifier	Quinstars	QLW-50754530-12	953600006	50 ~ 75 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 09, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
Detector	Quinstars	QEA-FBFBVP	2672009	50 ~ 75 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 09, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
Oscilloscope	Rohde & Schwarz	RTO 1002	400025	600MHz, 10GSa/sec	Sep. 20, 2022	Apr. 06, 2023 ~ Apr. 09, 2023	Sep. 19, 2023	Radiation (03CH18-HY)
Power Meter	Agilent	E4416A	GB43312306	N/A	Apr. 12, 2022	Apr. 06, 2023 ~ Apr. 09, 2023	Apr. 11, 2023	Radiation (03CH18-HY)
Power Sensor	Keysight	V8486A	MY60170002	50 ~ 75 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 09, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
Signal Generator	Anritsu	MG3710A	6261943042	100kHz ~ 40GHz	May 23, 2022	Apr. 06, 2023 ~ Apr. 09, 2023	May 22, 2023	Radiation (03CH18-HY)
Active Frequency Multiplier	Eravant	SFA-50375341 6-15KF-E1	03099-01	50 ~ 75 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 09, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
Attenuator	SAGE	STA-30-15-M2	18953-02	50 ~ 75 GHz	Jul. 06, 2021	Apr. 06, 2023 ~ Apr. 09, 2023	Jul. 05, 2024	Radiation (03CH18-HY)
Thermal Chamber	ESPEC	SU-641	92013721	-30°C ~70°C	Oct. 17, 2022	Apr. 20, 2023 ~ Apr. 22, 2023	Oct. 16, 2023	Radiation (03CH18-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Sep. 16, 2022	Apr. 22, 2023 ~ Apr. 22, 2023	Sep. 15, 2023	Radiation (03CH18-HY)



## 6 Measurement Uncertainty

Test Item	Uncertainty
AC Power Conducted Emission Measurement (150 kHz ~ 30 MHz)	±3.5dB
Radiated Emission Measurement (9 kHz ~ 30 MHz)	±3.9dB
Radiated Emission Measurement (30 MHz ~ 1000 MHz)	±6.4dB
Radiated Emission Measurement (1 GHz ~ 6 GHz)	±4.7dB
Radiated Emission Measurement (6 GHz ~ 18 GHz)	±5.2dB
Radiated Emission Measurement (18 GHz ~ 40 GHz)	±5.9dB
Radiated Emission Measurement (40 GHz ~ 140 GHz)	±5.6dB
Radiated Emission Measurement (140 GHz ~ 200 GHz)	±6.6dB

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )