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Project No.: TM-2312000115P FCC ID: 2AIHD-0055

Report No.: TMWK2402000390KR Rev.: 02

# **FCC Co-location Radio Test Report**

For

**Vehicle Gateway** 

**Trade Name: Samsara** 

Model: 010-00008, 010-00006

Issued to

Samsara Inc.
1 De Haro Street, San Francisco, CA 94107, USA

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan.
Issued Date: April 3, 2024

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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# **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	March 20, 2024	Initial Issue	ALL	Allison Chen
01	March 28, 2024	See the following Note Rev.(01)	P.9, 15-22	Allison Chen
02	April 3, 2024	See the following Note Rev.(02)	P.12	Allison Chen

Note: Rev.(01)

1. Modify measurement equipment list and test data.

Rev.(02)

1. Modify test setup diagram in section 7.3.



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### 1. TEST RESULT CERTIFICATION

**Applicant:** Samsara Inc.

1 De Haro Street, San Francisco, CA 94107, USA

Manufacturer: Sercomm Corporation

8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan

**Equipment Under Test:** Vehicle Gateway

Trade Name: Samsara

**Model Number:** 010-00008, 010-00006

**Date of Test:** February 2, 2024

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR PART 27 SUBPART C	Compliance			
FCC CFR 47 Part 2	Compliance			
Statements of Conformity				
Determination of compliance is based on the results of the compliance measurement,				
not taking into account measurement instrumentation uncertainty.				

# We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of

Approved by:

Shawn Wu Supervisor



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# 2. EUT DESCRIPTION

Product	Vehicle Gateway			
Trade Name	Samsara			
Model:	010-00008, 010-00006			
	For detailed description of the difplease see the table below:	ferences between series models,		
Model Discrepancy	Model name	Difference		
	010-00008	LTE Band: 2,4,5,12,14		
	010-00006	LTE Band: 2,4,5,12,13		
Received Date	December 11, 2023			
Power Supply	EUT power by Power supply. (DC24V & DC12V)			
Antenna Specification	1. WIFI 2.4GHz: PIFA Antenna / Gain: 2.4 dBi 2. BLE: PIFA Antenna / Gain: 2.4 dBi 3. WWAN LTE Band 12: PIFA Antenna / Gain: 0.9 dBi			
Modulation Technique	1. WIFI 2.4GHz: IEEE 802.11b mode: CCK IEEE 802.11g mode: OFDM IEEE 802.11n HT20 mode: OFDM 2. BLE: GFSK for BLE 1 Mbps, GFSK for BLE 2 Mbps 3. WWAN LTE Band 12: QPSK, 16QAM			
Frequency Range	1. WIFI 2.4GHz: 802.11b/g/n HT 20: 2412MHz ~ 2462MHz 2. BLE: 2402MHz-2480MHz 3. WWAN: LTE Band 12    LTE Band 12			

#### Remark:

- 1. For more details, please refer to the User's manual of the EUT.
- 2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- 3. Disclaimer: The variant model numbers / trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.



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# 3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to TIA -603-E, FCC CFR 47 Part 2, Part 27 Subpart C and ANSI C63.26: 2015.

Three channels had been tested for each channel bandwidth.

1. LTE\_Band12\_CH23060\_10M\_QPSK(1,0)/802.11b:704 MHz/2412 MHz

2. LTE\_Band12\_CH23060\_10M\_QPSK(1,0)/BLE 2M:704 MHz/2440 MHz



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#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 3.2 EUT EXERCISE

- 1. The transmitter output power was connected to the call box.
- 2. Set EUT at maximum output power via call box.
- 3. Set Call box at lowest, middle and highest channels for each band and modulation.

#### 3.3 GENERAL TEST PROCEDURES

### **Conducted Emissions**

According to the requirements in ANSI C63.26: 2015. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

#### **Radiated Emissions**

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in ANSI C63.26: 2015.



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# 4. TEST SUMMARY

FCC Standard Sec.	Report Section	Test Item	Result
-	2	Antenna Requirement	Pass
§2.1051 27.53(g)	8.1	Spurious Radiation Measurement	Pass



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# 5. INSTRUMENT CALIBRATION

### **5.1 MEASURING INSTRUMENT CALIBRATION**

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### **5.2 MEASUREMENT EQUIPMENT USED**

### **Equipment Used for Emissions Measurement**

	966A_Radiated Wi-Fi 2.4GHz						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Thermo-Hygro Meter	WISEWIND	1206	D07	2023-12-08	2024-12-07		
Signal Analyzer	KEYSIGHT	N9010A	MY54200716	2023-10-13	2024-10-12		
Loop Antenna	COM-POWER	AL-130	121051	2023-05-23	2024-05-22		
Bi-Log Antenna	Sunol Sciences	JB3	A030105	2023-08-08	2024-08-07		
Preamplifier	EMEC	EM330	060609	2023-02-22	2024-02-21		
Cable	Huber+Suhner	104PEA	20995+21000+ 182330	2023-02-22	2024-02-21		
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2023-12-28	2024-12-27		
Preamplifier	HP	8449B	3008A00965	2023-12-22	2024-12-21		
Cable	EMCI	EMC101G	221213+221011 +221012	2023-10-17	2024-10-16		
High Pass Filters	Titan Microwave	T04H30001800 070S01	22011402-4	2023-06-17	2024-06-16		
Horn Antenna	SCHWARZBEC K	BBHA9170	1047	2023-12-13	2024-12-12		
Pre-Amplifier	EMCI	EMC184045SE	980860	2023-12-12	2024-12-11		
Turn Table	ccs	CC-T-1F	N/A	N.C.R	N.C.R		
Controller	ccs	CC-C-1F	N/A	N.C.R	N.C.R		
Antenna Tower	ccs	CC-A-1F	N/A	N.C.R	N.C.R		
Software			e3 V9-210616c				

**Remark:** Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.



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# **5.3 MEASUREMENT UNCERTAINTY**

PARAMETER	UNCERTAINTY
RF Output Power	± 2.533 dB
Channel Bandwidth	± 2.532 MHz
Peak to average ratio	± 2.531 dB
Conducted Bandedge	± 2.532 dB
Conducted Unwanted Emissions	± 2.533 dB
Frequency Stability	± 2.579 Hz
Radiated Emission_9kHz-30MHz	± 3.778 dB
Radiated Emission_30MHz-200MHz	± 3.457 dB
Radiated Emission_200MHz-1GHz	± 3.962 dB
Radiated Emission_1GHz-6GHz	± 4.804 dB
Radiated Emission_6GHz-18GHz	± 4.781 dB
Radiated Emission_18GHz-26GHz	± 3.112 dB
Radiated Emission_26GHz-40GHz	± 3.314 dB

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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# 6. FACILITIES AND ACCREDITATIONS

# **6.1 FACILITIES**

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. Tel: 886-2-2299-9720 / Fax: 886-2-2299-9721



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# 7. SETUP OF EQUIPMENT UNDER TEST

# 7.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

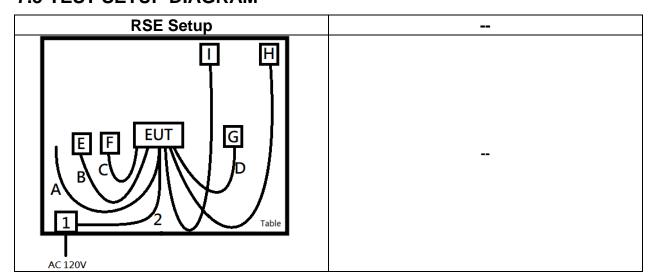
### 7.2 SUPPORT EQUIPMENT

Support Unit List								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Remark		
DC Power Source	GWINSTEK	SPS-3610	GPE880163	2023-11-16	2024-11-15	1		
DC Power Cable	N/A	N/A	N/A	N/A	N/A	2		
DC power Cable	N/A	N/A	N/A	N/A	N/A	А		
USB Cable	LINDY	36761-ANTHRA	N/A	N/A	N/A	В		
USB Cable	LINDY	36761-ANTHRA	N/A	N/A	N/A	С		
USB Cable	LINDY	36761-ANTHRA	N/A	N/A	N/A	D		
USB	HP	x306w 32G	N/A	N/A	N/A	Е		
USB	HP	x306w 32G	N/A	N/A	N/A	F		
USB	HP	x306w 32G	N/A	N/A	N/A	G		
CM32	N/A	N/A	N/A	N/A	N/A	Н		
Panic Button	N/A	020-0011	N/A	N/A	N/A	I		

#### Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 7.3 TEST SETUP DIAGRAM





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# 8. TEST PROCEDURE AND RESULT

### **8.1 SPURIOUS RADIATION MEASUREMENT**

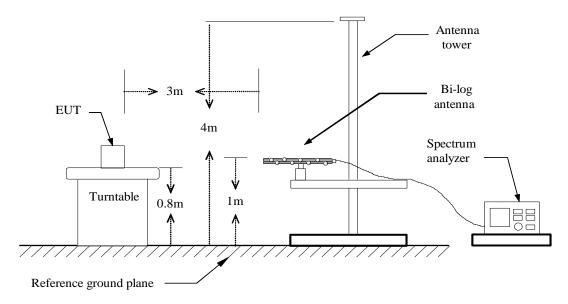
### LIMIT

According to FCC §2.1053

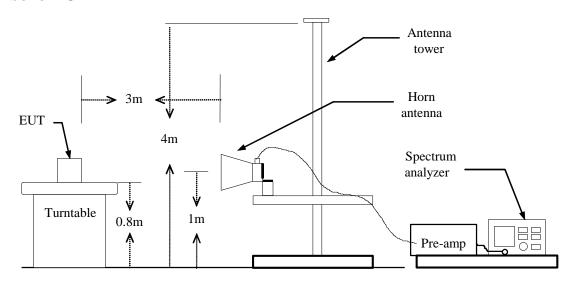
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm

### **Test Configuration**

#### **Below 1 GHz**



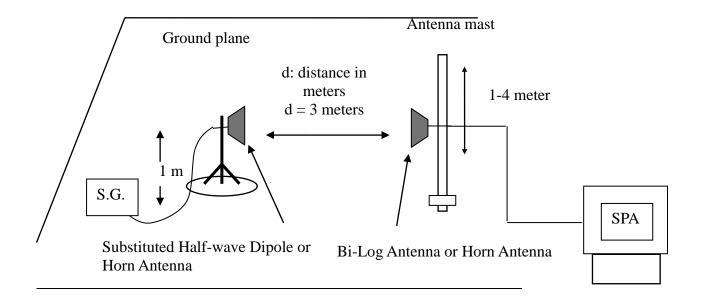
#### **Above 1 GHz**





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### **Substituted Method Test Set-up**



# **TEST PROCEDURE**

- 1. According to KDB 971168 D01 and ANSI C63.26.
- 2. The EUT was placed on a turntable
  - (1) Below 1G: 0.8m
  - (2) Above 1G: 1.5m
  - (3) EUT set 3m from the receiving antenna
  - (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
- 3. Set the spectrum analyzer, RBW=1MHz, VBW=3MHz.
- 4. A horn antenna was driven by a signal generator.
- 5. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission

## **TEST RESULTS**

Refer to the attached tabular data sheets.



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:Ray.Li

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### **TEST RESULTS**

### **Co-Location**

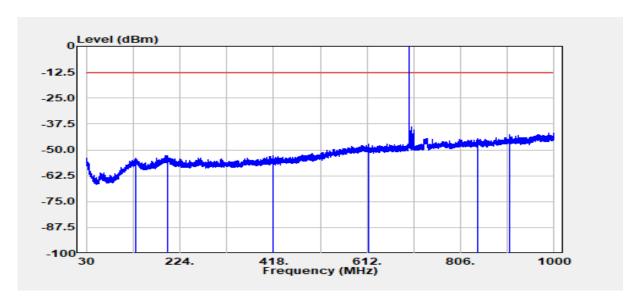
Project No :TM-2312000115P Test Date :2024-02-02

Frequency: 704 MHz/2412 MHz Antenna Pol. :VERTICAL

Operation Mode :TX Engineer

EUT Pol :E2 Test : 966A

Setting :



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
131.85	-54.14	-46.91	-7.04	0.20	-13.00	-41.14
199.07	-52.68	-50.16	-2.27	0.25	-13.00	-39.68
416.93	-52.81	-52.93	0.52	0.40	-13.00	-39.81
615.01	-47.27	-47.60	0.84	0.51	-13.00	-34.27
841.79	-44.64	-45.19	1.16	0.61	-13.00	-31.64
906.59	-42.80	-43.40	1.24	0.63	-13.00	-29.80

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

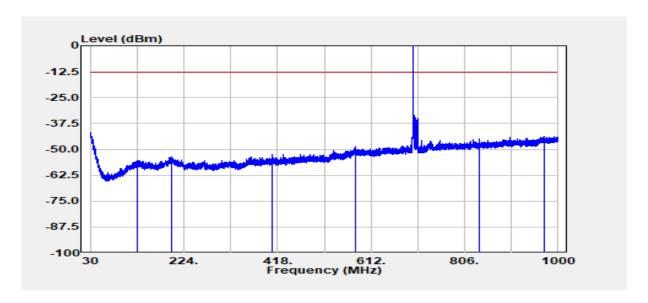


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Project No :TM-2312000115P Test Date :2024-02-02

Frequency :704 MHz/2412 MHz Antenna Pol. :HORIZONTAL

Operation Mode :TX Engineer :Ray.Li EUT Pol :E2 Test Chamber : 966A Setting :



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
127.29	-55.35	-47.49	-7.66	0.19	-13.00	-42.35
199.17	-53.76	-51.23	-2.28	0.25	-13.00	-40.76
407.23	-52.33	-52.60	0.67	0.39	-13.00	-39.33
579.60	-48.86	-49.28	0.92	0.49	-13.00	-35.86
836.26	-45.09	-45.59	1.10	0.60	-13.00	-32.09
971.29	-43.83	-44.56	1.38	0.65	-13.00	-30.83

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

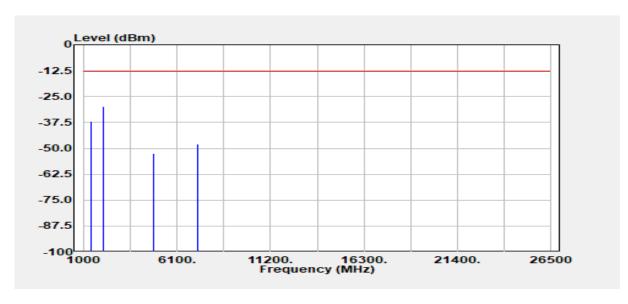


Setting

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Project No :TM-2312000115P **Test Date** :2024-02-02 Operation :LTE\_Band12\_CH23060 Temp./Humi. :24.5/57 \_10M\_QPSK(1,0)/802.11b Band :704 MHz/2412 MHz Antenna Pol. :Vertical Frequency Operation :TX :Ray.Li Engineer Mode Test Chamber **EUT Pol** :E2 : 966A



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1408.00	-36.89	32.44	4.68	0.77	-13.00	-23.89
2112.00	-29.71	37.51	4.82	0.94	-13.00	-16.71
4824.00	-52.31	3.48	9.65	1.39	-13.00	-39.31
7236.00	-47.82	8.59	11.37	1.64	-13.00	-34.82
Remark:						

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

<sup>2.</sup> Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



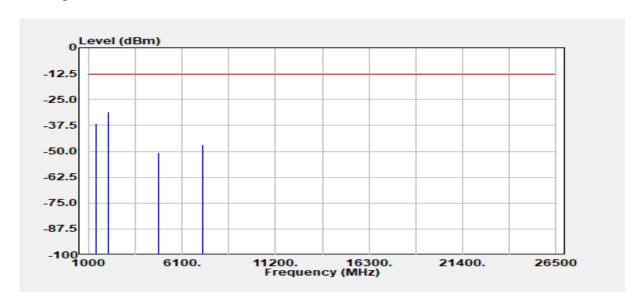
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Project No :TM-2312000115P **Test Date** :2024-02-02 Operation :LTE\_Band12\_CH23060 Temp./Humi. :24.5/57 \_10M\_QPSK(1,0)/802.11b Band :704 MHz/2412 MHz Antenna Pol. :Horizontal Frequency Operation :TX Engineer :Ray.Li Mode

**Test Chamber** 

: 966A

EUT Pol :E2 Setting :



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1408.00	-36.48	31.93	4.68	0.77	-13.00	-23.48
2112.00	-31.08	36.35	4.82	0.94	-13.00	-18.08
4824.00	-50.74	3.74	9.65	1.39	-13.00	-37.74
7236.00	-46.87	8.71	11.37	1.64	-13.00	-33.87
Remark:						

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

<sup>2.</sup> Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



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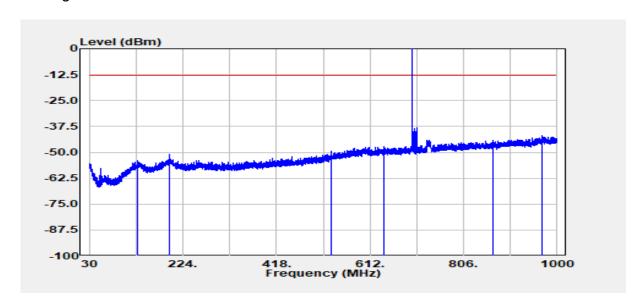
Project No :TM-2312000115P Test Date :2024-02-02

Operation Band :LTE\_Band12\_CH23060 Temp./Humi. :24.5/57

Frequency :704 MHz/2440 MHz Antenna Pol. :VERTICAL

Operation Mode :TX Engineer :Ray.Li EUT Pol :E2 Test Chamber : 966A

Setting :



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
130.78	-53.93	-46.56	-7.18	0.19	-13.00	-40.93
195.77	-50.95	-48.74	-1.96	0.25	-13.00	-37.95
531.68	-49.37	-49.87	0.97	0.47	-13.00	-36.37
639.84	-47.17	-47.44	0.78	0.52	-13.00	-34.17
867.79	-44.32	-44.73	1.03	0.62	-13.00	-31.32
968.18	-41.97	-42.66	1.34	0.65	-13.00	-28.97
Remark:						

<sup>1.</sup> Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

<sup>2.</sup> Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



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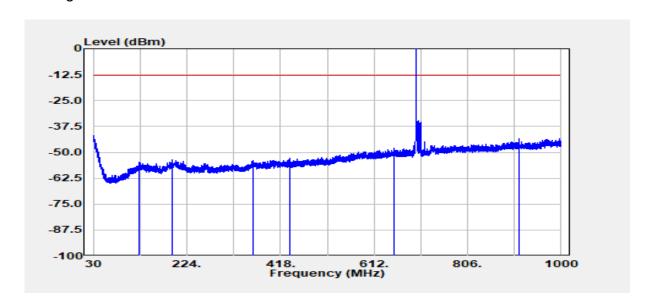
Project No :TM-2312000115P Test Date :2024-02-02

Operation :LTE Band12 CH23060 Temp./Humi. :24.5/57 \_10M\_QPSK(1,0)/BLE 2M Band

Frequency :704 MHz/2440 MHz Antenna Pol. :HORIZONTAL

Operation :TX Engineer :Ray.Li Mode

**EUT Pol** :E2 **Test Chamber** :966A Setting



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
125.74	-54.75	-46.90	-7.66	0.19	-13.00	-41.75
194.22	-53.54	-51.57	-1.72	0.25	-13.00	-40.54
362.03	-53.82	-54.31	0.85	0.36	-13.00	-40.82
438.66	-52.79	-52.73	0.36	0.41	-13.00	-39.79
653.71	-47.86	-48.13	0.79	0.52	-13.00	-34.86
911.73	-43.49	-44.22	1.36	0.63	-13.00	-30.49
Remark:						

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

<sup>2.</sup> Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



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Project No :TM-2312000115P Test Date :2024-02-02

:24.5/57

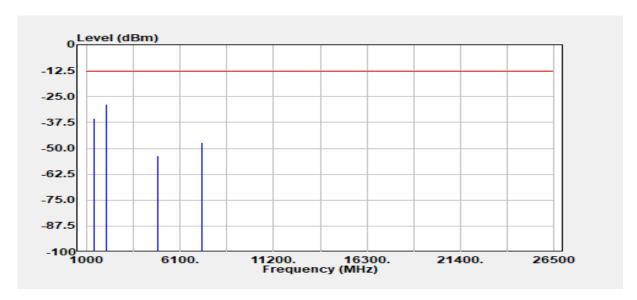
Operation :LTE\_Band12\_CH23060 Temp./Humi.

Frequency :704 MHz/2440 MHz Antenna Pol. :VERTICAL

Operation Mode :TX Engineer :Ray.Li

EUT Pol :E2 Test Chamber : 966A





Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1408.00	-35.64	-39.54	4.68	0.77	-13.00	-22.64
2112.00	-28.87	-32.75	4.82	0.94	-13.00	-15.87
4880.00	-53.40	-61.70	9.70	1.40	-13.00	-40.40
7320.00	-47.13	-56.97	11.50	1.65	-13.00	-34.13

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



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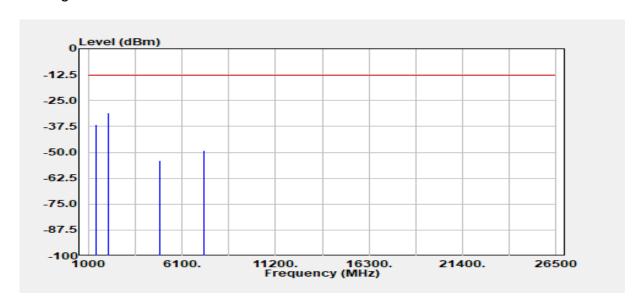
Frequency: 704 MHz/2440 MHz Antenna Pol.: HORIZONTAL

:Ray.Li

Operation Mode :TX Engineer

EUT Pol :E2 Test Chamber : 966A

Setting :



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1408.00	-36.70	-40.61	4.68	0.77	-13.00	-23.70
2112.00	-30.95	-34.83	4.82	0.94	-13.00	-17.95
4880.00	-54.01	-62.31	9.70	1.40	-13.00	-41.01
7320.00	-49.04	-58.89	11.50	1.65	-13.00	-36.04

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

#### -- End of Test Report --