ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant:	Axon Enterprise, Inc. 17800 N 85th St, Scottsdale, AZ 85255, United States
Product Name:	Fleet 3 Charging Base
Brand Name:	Axon
Model No.:	AX1034
Model Difference:	N/A
Report Number:	E2/2021/90025
FCC ID	X4GS01358
IC:	8803A-S01358
Issue Date:	Oct.27,2021
Date of Test:	Sep.14,2021～Oct.01,2021
Date of EUT Received:	Sep.14,2021

Approved By _____

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

Australian/New Zealand Standard AS/NZS 4268:2017. Test report to determine compliance with AS/NZS 4268 requirements.

The test results of this report relate only to the tested sample identified in this report.

Revision History				
Report Number	**Revision**	**Description**	**Issue Date**	**Remark**
E2/2021/90025	Rev.00	Original.	Oct.27,2021	Viola Su

Note:

1. Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
2. Measurement results in the original test report **E2/2021/90024** are leveraged in this test report.

Table of Contents

1 GENERAL INFORMATION

1.1 Product description

Product Name:	Fleet 3 Charging Base
Brand Name:	AXON
Model No.:	AX1034
Model Difference:	N/A
Hardware Version:	DVT
Software Version:	N/A
Firmware Version_Main chip:	v24.00
Firmware Version_TI RF chip:	17.14
EUT Series No.:	PJ219089011
Power Supply:	54Vdc from PoE port of Fleet 3 host (AX1033)

Radio Technology:	Wireless Microphone
Frequency Range (FCC):	902.4 – 927.6MHz
Frequency Range (AS/NZS 4268):	915 – 928MHz
Channel number:	64 channels
Modulation type:	2FSK
Transmit Power:	18.27 dBm (Peak)
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	Dipole Antenna , Peak Gain: 2.14 dBi Peak Gain: 0.5 dBi

1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
RSS-247 issue 2 Feb. 2017
RSS-Gen, Issue 5 (Amendment 2, February 2021)
ANSI C63.10:2013

AS/NZS 4268:2017, – Radio equipment and systems – Short range devices – Limits and methods of measurement.

1.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table 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 max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

2.5 Configuration of Tested System

Fig. 2-1 Conducted Emission

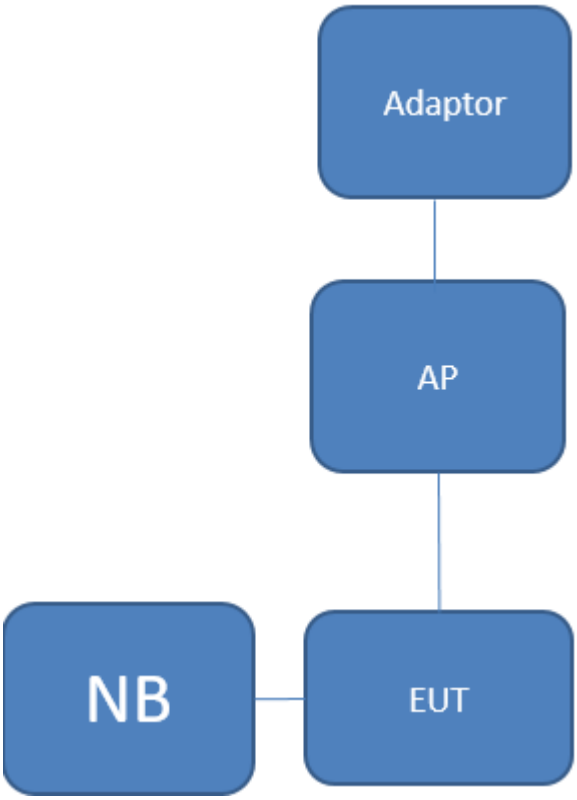


Fig. 2-2 Radiated Emission

Fig. 2-3 Conduction Setup

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord	Version
1.	Test Software	audix	e3	20923 sgs Ver.9	N/A	N/A	N/A
2.	Notebook	Lenovo	L440	P0000367	N/A	N/A	N/A
3.	Test Software	SGS Taiwan	Radio Test Software	Ver.21	N/A	N/A	N/A
4.	Notebook	Lenovo	L480	P0002332	N/A	N/A	N/A
5.	Tere Term	N/A	N/A	N/A	N/A	N/A	4.84
6.	Adapter	FSP GROUP INC.	FSP120-AHAN3	N/A	N/A	N/A	N/A
7.	Test Software	audix	e3	Ver. 6.11-20180419c	N/A	N/A	N/A

3 SUMMARY OF TEST RESULTS

AS/NZS 4268 Rule	Description	Result
Row 54	Frequency hopping transmit-ters	Compliant

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b)(2)	RSS-247 §5.4 b	Peak Output Power	Compliant
§15.247(a)(1)(i)	RSS-247 §5.1 b RSS-Gen §6.7	20dB & 99% Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)(i)	RSS-247 §5.1 c	Frequency Separation Number of hopping frequency Time of Occupancy	Compliant
§15.203	N/A	Antenna Requirement	Compliant

4 DESCRIPTION OF TEST MODES

4.1 Operated in 902.4 ~ 927.6MHz Band

64 Channels are provided

	CH	Freq.(MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
Channel List	0	902.4	19	910	38	917.6	57	925.2
	1	902.8	20	910.4	39	918	58	925.6
	2	903.2	21	910.8	40	918.4	59	926
	3	903.6	22	911.2	41	918.8	60	926.4
	4	904	23	911.6	42	919.2	61	926.8
	5	904.4	24	912	43	919.6	62	927.2
	6	904.8	25	912.4	44	920	63	927.6
	7	905.2	26	912.8	45	920.4		
	8	905.6	27	913.2	46	920.8		
	9	906	28	913.6	47	921.2		
	10	906.4	29	914	48	921.6		
	11	906.8	30	914.4	49	922		
	12	907.2	31	914.8	50	922.4		
	13	907.6	32	915.2	51	922.8		
	14	908	33	915.6	52	923.2		
	15	908.4	34	916	53	923.6		
	16	908.8	35	916.4	54	924		
	17	909.2	36	916.8	55	924.4		
	18	909.6	37	917.2	56	924.8		

4.2 The Worst Test Modes and Channel Details

1 The EUT has been tested under operating condition.
2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3 Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST (BELOW 1 GHz)			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4、915.2、927.6	0.2
RADIATED EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4、915.2、927.6	0.2

CONDUCTED TEST			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4、915.6、927.6	0.2

Peak ouput power			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4、915.2、927.6	0.2

20dB Band width			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4、915.2、927.6	0.2

Band Edge			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4、927.6	0.2

Frequency Separation			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4、902.8、903.2	0.2

Number of hopping frequency			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	902.4 ~ 927.6	0.2

Dwell time			
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	DATA RATE (Mbps)
902.4~927.6	902.4~927.6	915.2	0.2

5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	2.34	dB
Peak Output Power	+/-	1	dB
20dB Bandwidth & 99% Bandwidth	+/-	1.53	Hz
100 kHz Bandwidth Of Frequency Band Edges	+/-	1.69	dB
Frequency Separation	+/-	1.53	Hz
Number of hopping frequency	+/-	1.53	Hz
Time of Occupancy	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	**+/-**	**2.64**	**dB**	9kHz~30MHz
	+/-	**4.93**	**dB**	30MHz - 1000MHz
	+/-	**4.81**	**dB**	1GHz - 18GHz
	+/-	**4.52**	**dB**	18GHz - 40GHz
Polarization: Horizontal	**+/-**	**2.64**	**dB**	9kHz~30MHz
	+/-	**4.45**	**dB**	30MHz - 1000MHz
	+/-	**4.81**	**dB**	1GHz - 18GHz
	+/-	**4.52**	**dB**	18GHz - 40GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range	Limits dB(uV)	
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used:

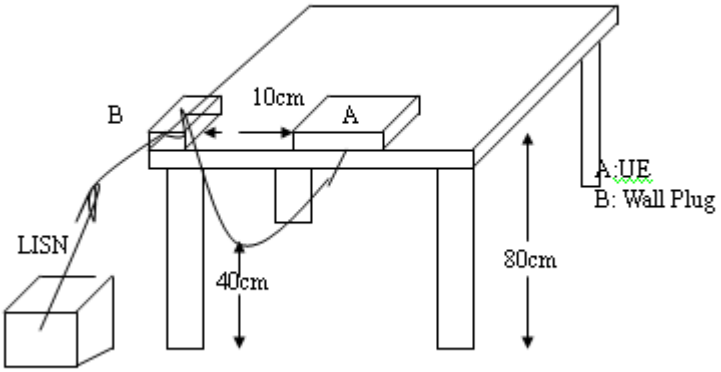
Radiated Emission Test Site: Conduction C					
EQUIPMENT TYPE	**MFR**	**MODEL NUM-BER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R
LISN	SCHWARZBECK Mess-El-ektronik	NSLK8127	973	03/25/2021	03/24/2022
EMI Test Receiver	R&S	ESCI	101342	04/28/2021	04/27/2022
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2021	03/26/2022
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2021	03/26/2022
Adapter	FSP GROUP INC.	FSP120-AHAN3	N/A	N.C.R	N.C.R

Note: N.C.R refers to Not Calibrated Required

6.3 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

6.4 Test SET-UP (Block Diagram of Configuration)

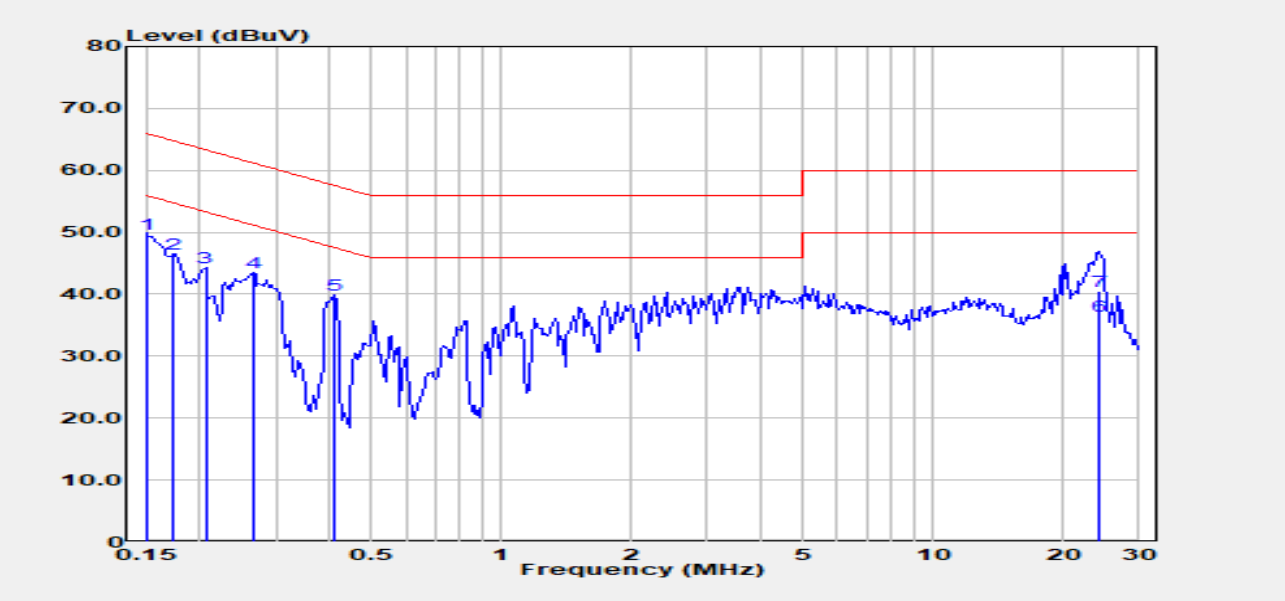


6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

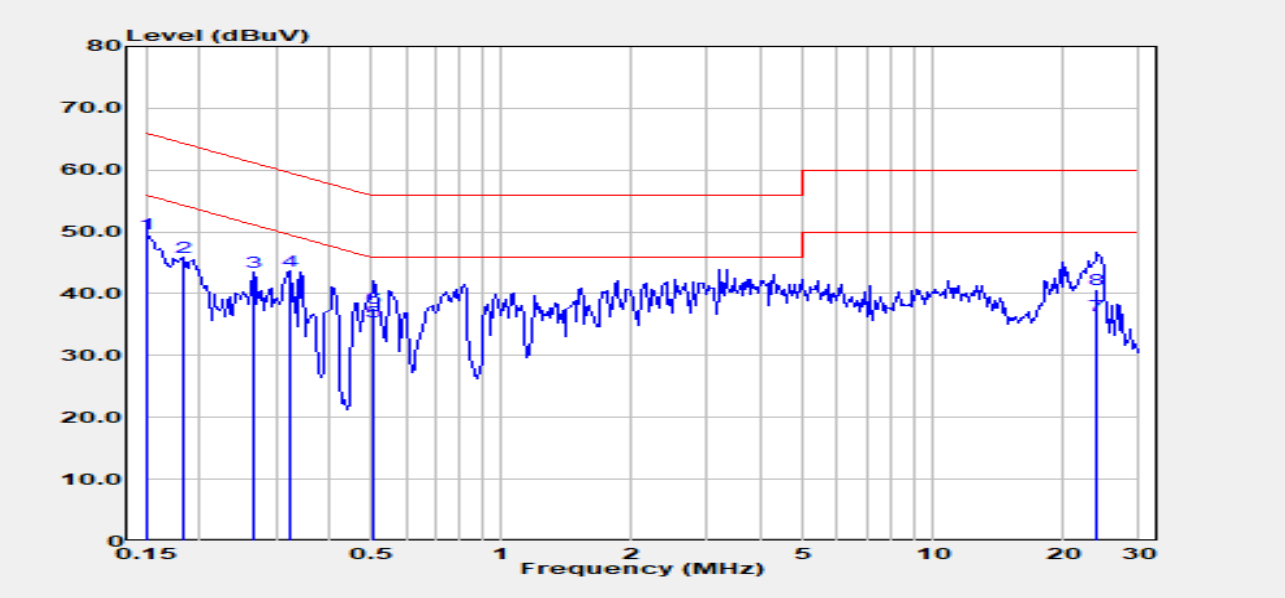
6.6 Measurement Result

Report Number	:E2/2021/90024	Test Site	:Conduction C
Test Mode	:Wireless Microphone LoRa	Test Date	:2021-09-17
Power	:120V/60Hz	Temp./Humi.	:22.1/62
Probe	:L1	Engineer	:Enzo Chang
Note:	: FSP120-AHAN3		



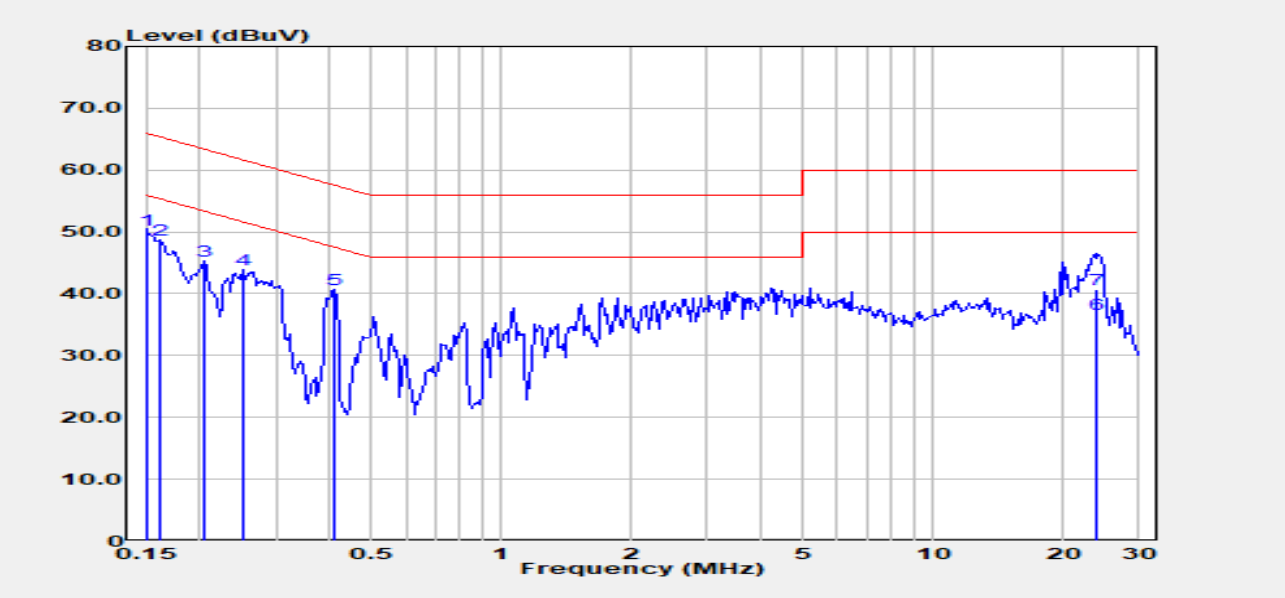
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV	Limit dBµV	Margin dB
0.152	Peak	39.46	10.30	49.76	65.91	-16.16
0.174	Peak	36.24	10.30	46.54	64.77	-18.23
0.206	Peak	34.06	10.30	44.36	63.36	-19.00
0.266	Peak	33.16	10.30	43.46	61.25	-17.78
0.410	Peak	29.61	10.31	39.92	57.64	-17.72
24.271	Average	25.60	10.97	36.57	50.00	-13.43
24.271	QP	29.60	10.97	40.57	60.00	-19.43

Report Number	:E2/2021/90024	Test Site	:Conduction C
Test Mode	:Wireless Microphone LoRa	Test Date	:2021-09-17
Power	:120V/60Hz	Temp./Humi.	:22.1/62
Probe	:N	Engineer	:Enzo Chang
Note:	: FSP120-AHAN3		



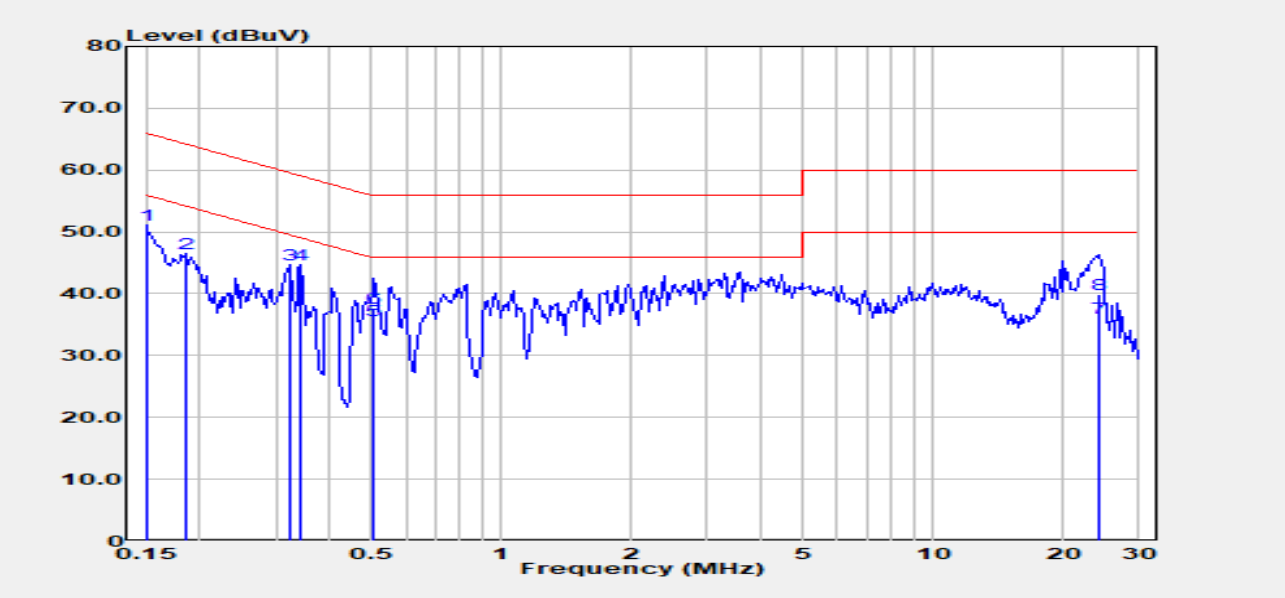
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.152	Peak	39.47	10.31	49.78	65.91	-16.13
0.183	Peak	35.56	10.30	45.86	64.33	-18.46
0.266	Peak	33.30	10.31	43.61	61.25	-17.64
0.322	Peak	33.36	10.31	43.67	59.66	-15.99
0.507	Average	25.20	10.32	35.52	46.00	-10.48
0.507	QP	27.40	10.32	37.72	56.00	-18.28
24.015	Average	25.50	11.08	36.58	50.00	-13.42
24.015	QP	29.70	11.08	40.78	60.00	-19.22

Report Number	:E2/2021/90025	Test Site	:Conduction C
Test Mode	:Charging Base LoRa	Test Date	:2021-09-17
Power	:120V/60Hz	Temp./Humi.	:22.3/61
Probe	:L1	Engineer	:Enzo Chang
Note:	: FSP120-AHAN3		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.152	Peak	40.03	10.30	50.33	65.91	-15.58
0.162	Peak	38.44	10.30	48.74	65.38	-16.64
0.204	Peak	34.91	10.30	45.21	63.45	-18.23
0.252	Peak	33.57	10.30	43.87	61.69	-17.82
0.410	Peak	30.40	10.31	40.71	57.64	-16.93
24.015	Average	25.80	10.97	36.77	50.00	-13.23
24.015	QP	29.80	10.97	40.77	60.00	-19.23

Report Number	:E2/2021/90025	Test Site	:Conduction C
Test Mode	:Charging Base LoRa	Test Date	:2021-09-17
Power	:120V/60Hz	Temp./Humi.	:22.3/61
Probe	:N	Engineer	:Enzo Chang
Note:	: FSP120-AHAN3		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.150	Peak	40.76	10.31	51.07	66.00	-14.93
0.185	Peak	36.25	10.30	46.56	64.24	-17.68
0.322	Peak	34.31	10.31	44.62	59.66	-15.04
0.343	Peak	34.39	10.31	44.70	59.13	-14.44
0.507	Average	25.40	10.32	35.72	46.00	-10.28
0.507	QP	27.30	10.32	37.62	56.00	-18.38
24.271	Average	25.10	11.09	36.19	50.00	-13.81
24.271	QP	28.80	11.09	39.89	60.00	-20.11

7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

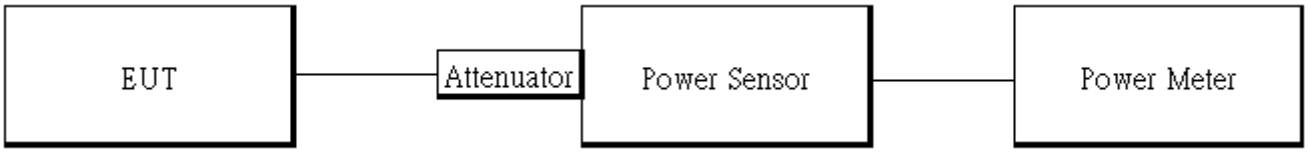
For frequency hopping systems operating in the 902-928 MHz band employing at least 50 hopping channels, conducted output power shall not exceed 1Watt and EIRP shall not exceed 4W. For systems employing less than 50 hopping channels, conducted output power shall not exceed 0.25Watt and EIRP shall not exceed 1W.

7.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	**MFR/BRAND**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2021	07/06/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F2A196C	RF70	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNACK	PE8210	RF151	11/19/2020	11/18/2021
Notebook	Lenovo	L480	P0002332	N/A	N/A

Note: N.C.R refers to Not Calibrated Required

7.3 Test Set-up:



7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

7.5 Measurement Result

Charging Base (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	902.4	18.16	65.464	1000
Mid	915.2	**18.27**	67.143	1000
High	927.6	18.21	66.222	1000

NOTE: cable loss as 10.6dB that offsets in the spectrum

Charging Base (Average):

CH	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	902.4	18.11	64.714	1000
Mid	915.2	18.23	66.527	1000
High	927.6	18.15	65.313	1000

****Note: Max. Output include tune up tolerance Power measured by using average detector.***

8 20dB & 99% BANDWIDTH

8.1 Standard Applicable

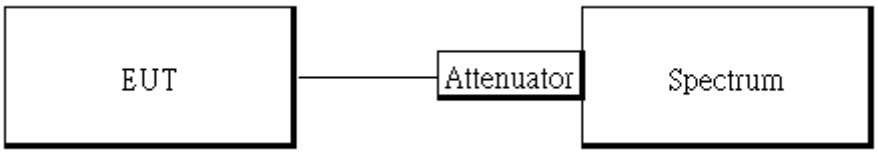
For frequency hopping systems operating in the 902 MHz-928 MHz : if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies.

8.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	**MFR/BRAND**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2021	07/06/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F2A196C	RF70	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNACK	PE8210	RF151	11/19/2020	11/18/2021
Notebook	Lenovo	L480	P0002332	N/A	N/A

Note: N.C.R refers to Not Calibrated Required

8.3 Test Set-up



8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=3 kHz, VBW = 9.1 kHz, Span= large enough to capture all products of the modulation process, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
4. Mark the peak frequency and –20dB (upper and lower) frequency and Turn on the 99% bandwidth function, max reading.
5. Repeat above procedures until all test default channel is completed

8.5 20dB Bandwidth

Charging Base

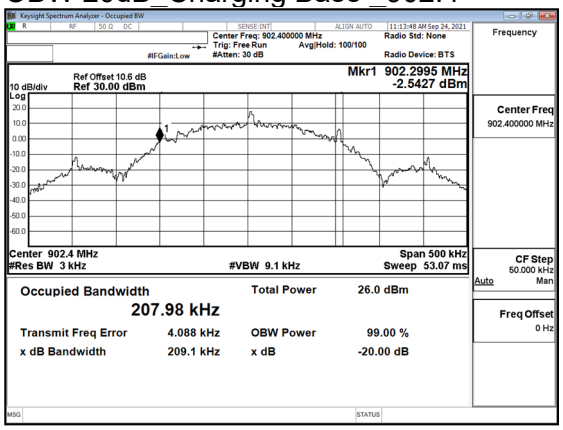
Frequency (MHz)	20dB BW (MHz)
902.4	0.2091
915.2	0.2095
927.6	0.2135

8.6 99% Bandwidth

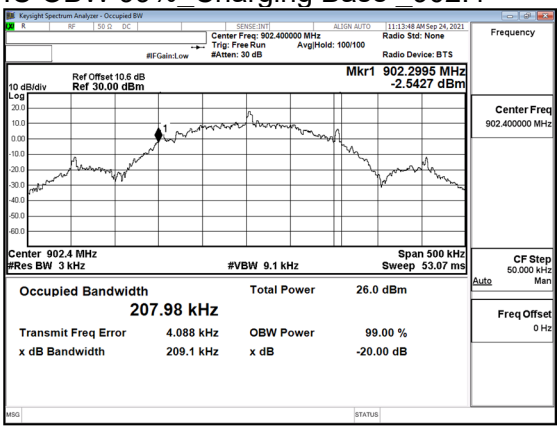
Charging Base

Frequency (MHz)	99%Bandwidth (MHz)
902.4	0.20798
915.2	0.20985
927.6	0.21274

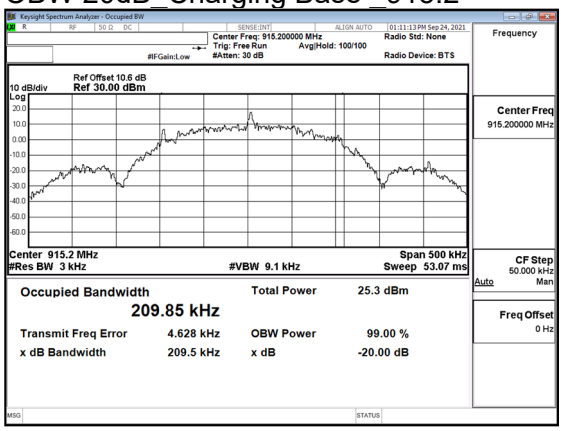
OBW 20dB_Charging Base _902.4



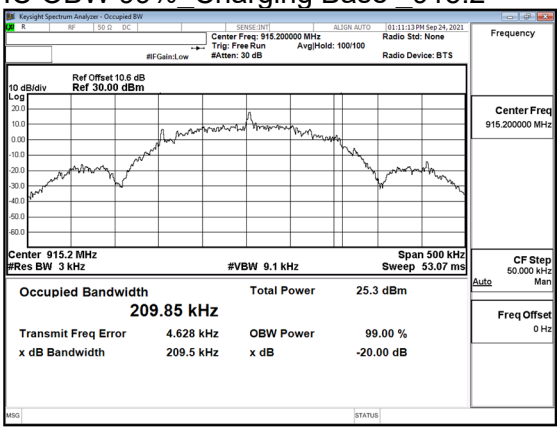
IC OBW 99%_Charging Base _902.4



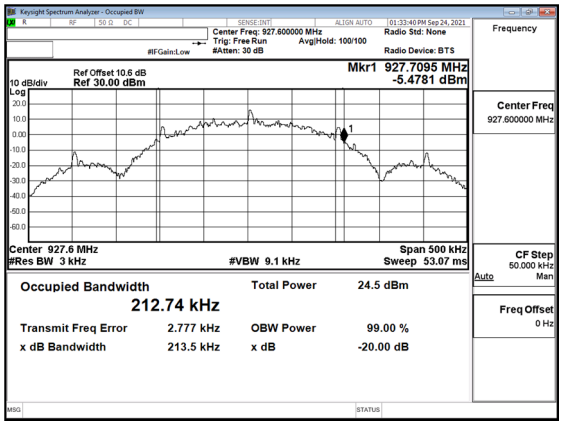
OBW 20dB_Charging Base _915.2



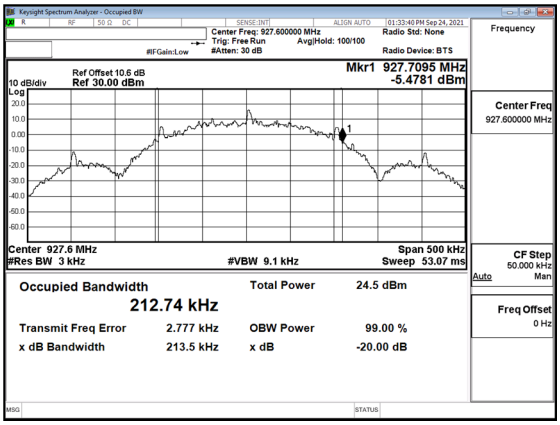
IC OBW 99%_Charging Base _915.2



OBW 20dB_Charging Base _927.6



IC OBW 99%_Charging Base _927.6



9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) and RSS-Gen §8.9.

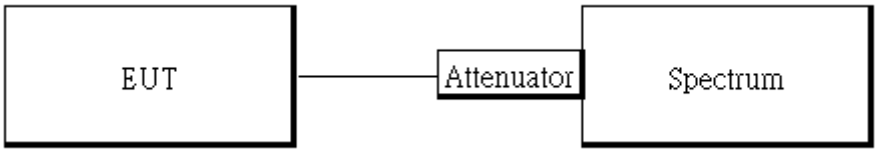
9.2 Measurement Equipment Used

9.2.1 Conducted Emission at antenna port:

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	**MFR/BRAND**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2021	07/06/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F2A196C	RF70	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNACK	PE8210	RF151	11/19/2020	11/18/2021
Notebook	Lenovo	L480	P0002332	N/A	N/A

Note: N.C.R refers to Not Calibrated Required

9.3 Test SET-UP:



9.4 Measurement Procedure

Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak, 902MHz and 928MHz and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

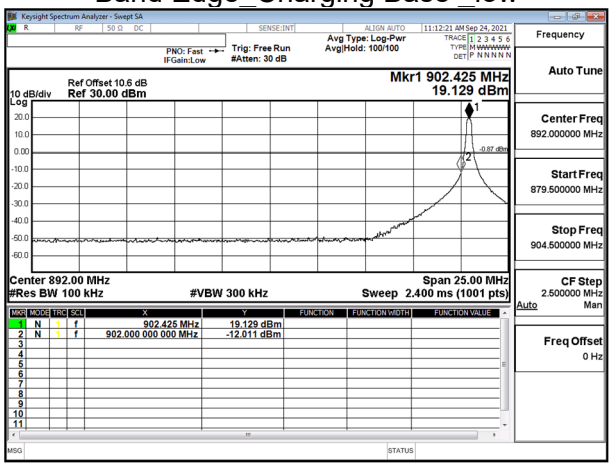
1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013.
3. Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

NOTE: cable loss as 10.30 dB that offsets in the spectrum

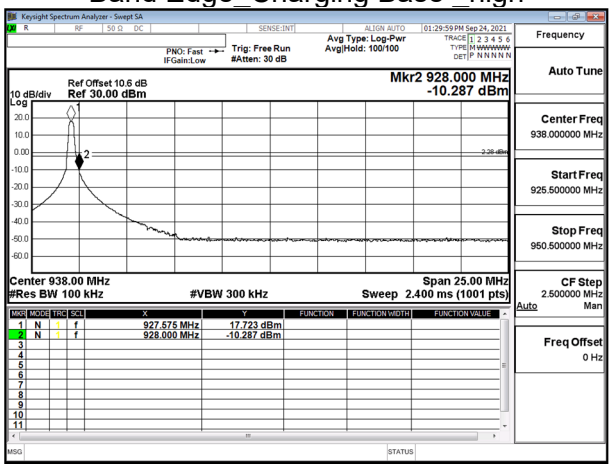
9.5 Measurement Result

See next page for test plots

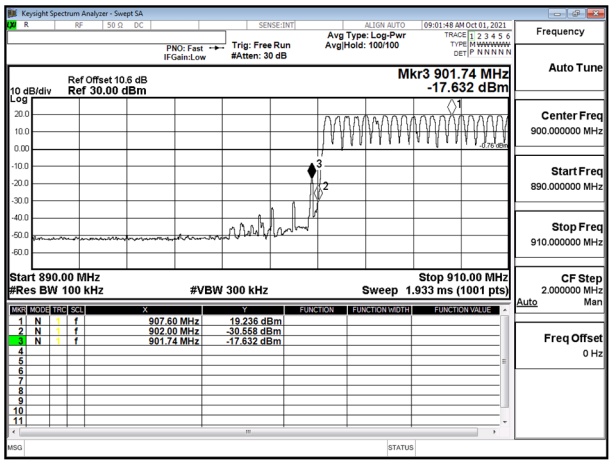
Band Edge_Charging Base _low



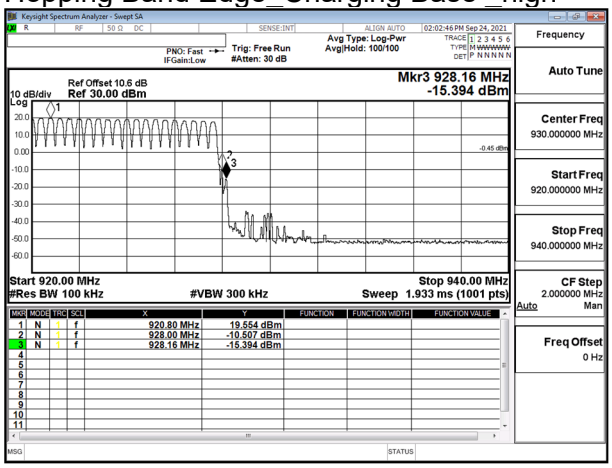
Band Edge_Charging Base _high



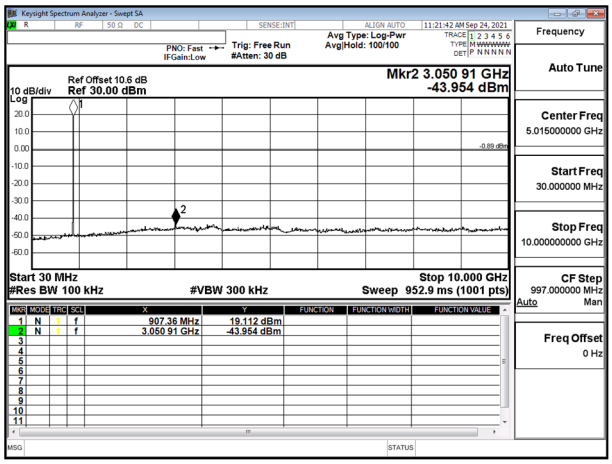
Hopping Band_Charging Base_Edge_low



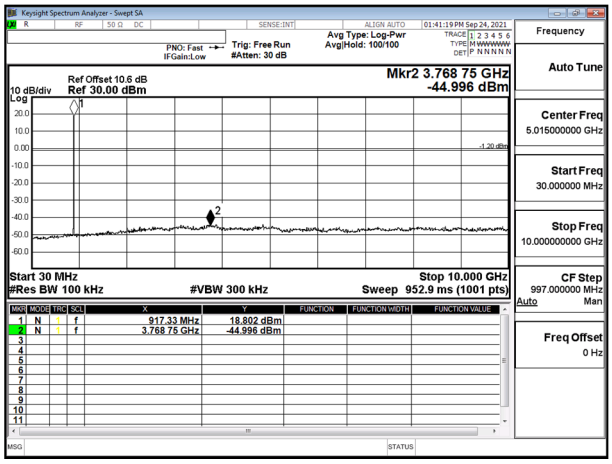
Hopping Band Edge_Charging Base _high



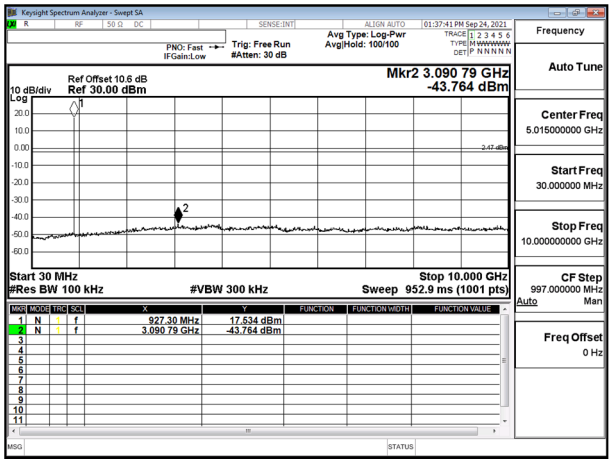
Spurious Emission_Charging Base_low



Spurious Emission_ Charging Base_mid



Spurious Emission_ Charging Base_high



10 SPURIOUS RADIATED EMISSION TEST

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.
And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

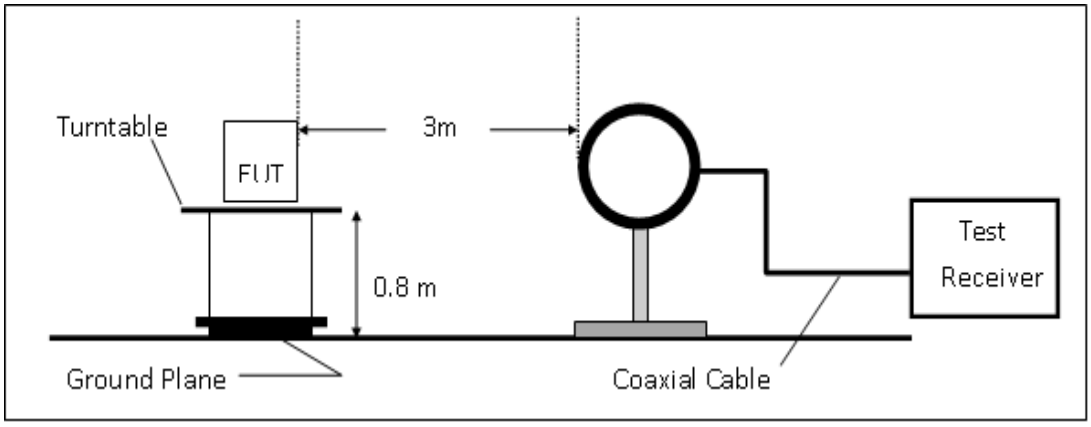
10.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	**MFR/BRAND**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Broadband Antenna	TESEQ	CBL 6112D	35240	10/10/2021	10/09/2022
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
High Pass Filter	Woken	EWT-57-0209	RF171	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Notebook	Lenovo	L440	P0000367	N/A	N/A

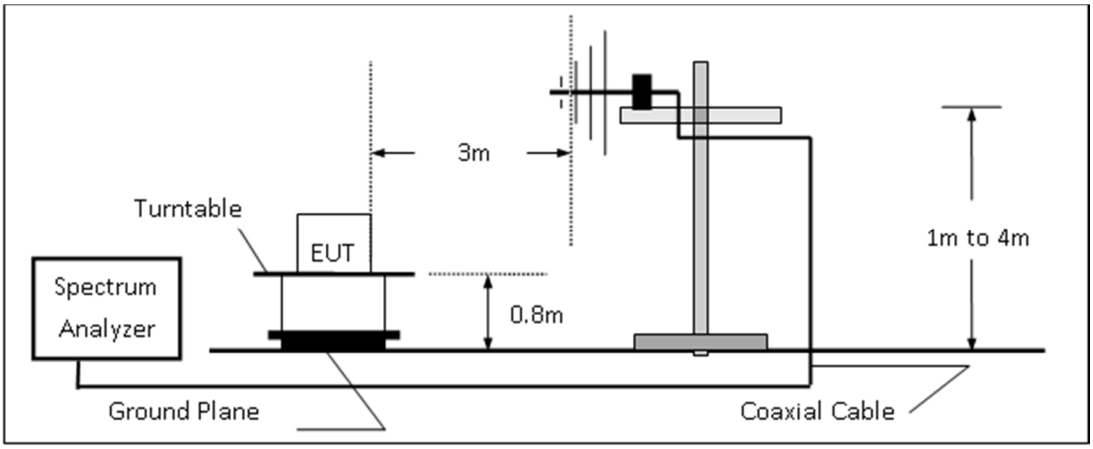
Note: N.C.R refers to Not Calibrated Required

10.3 Test SET-UP:

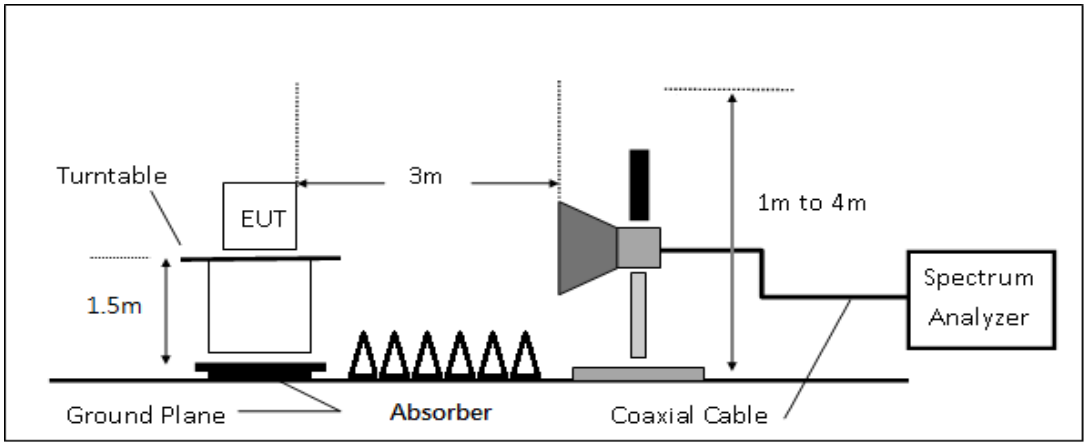
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



10.4 Measurement Procedure:

Radiated Emission:

1. The testing follows ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
11. Repeat above procedures until all default test channel measured were complete.

10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

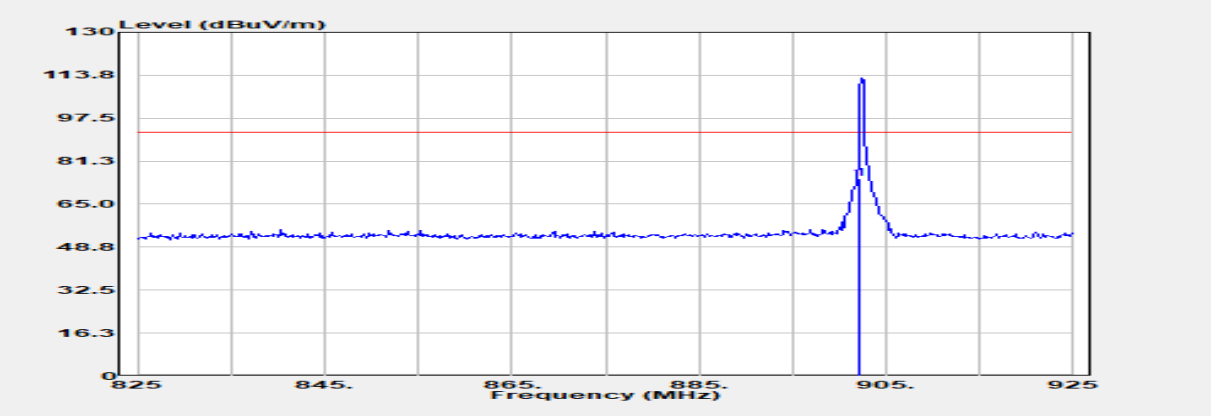
10.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

10.7 Measurement Result:

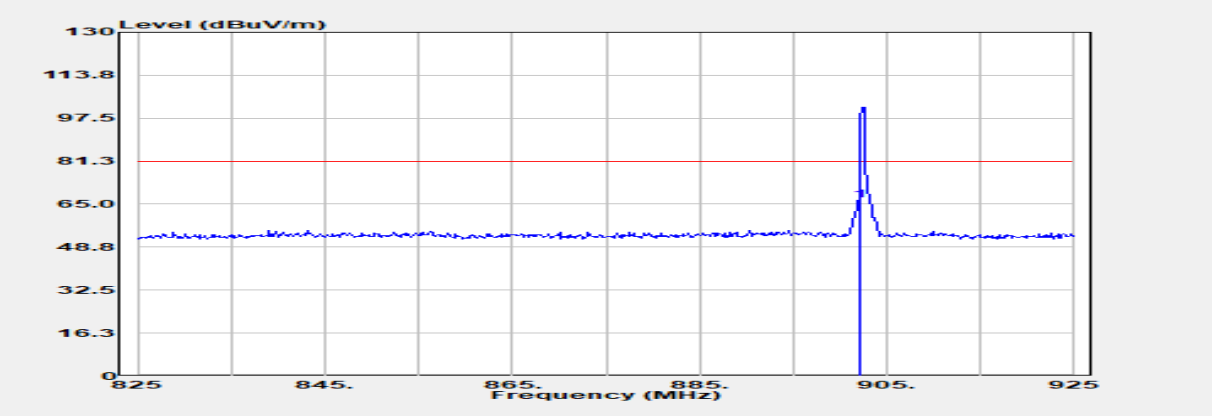
10.7.1 Radiated Bandedge Result

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-14
Test Frequency	:902.4 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Enzo Chang



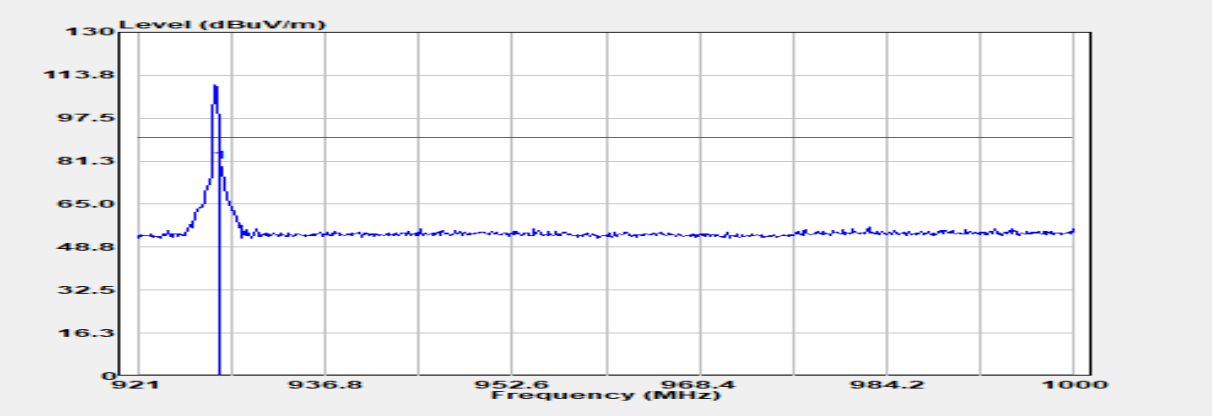
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
902.000	Peak	80.81	-6.17	74.64	92.32	-17.68

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-14
Test Frequency	:902.4 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Enzo Chang



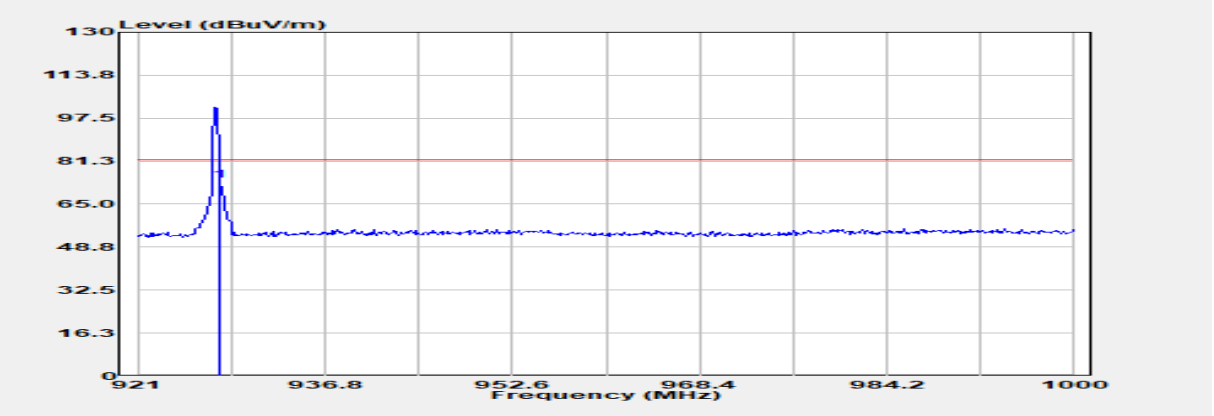
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
902.000	Peak	72.49	-6.17	66.32	81.16	-14.84

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-14
Test Frequency	:927.6 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Enzo Chang



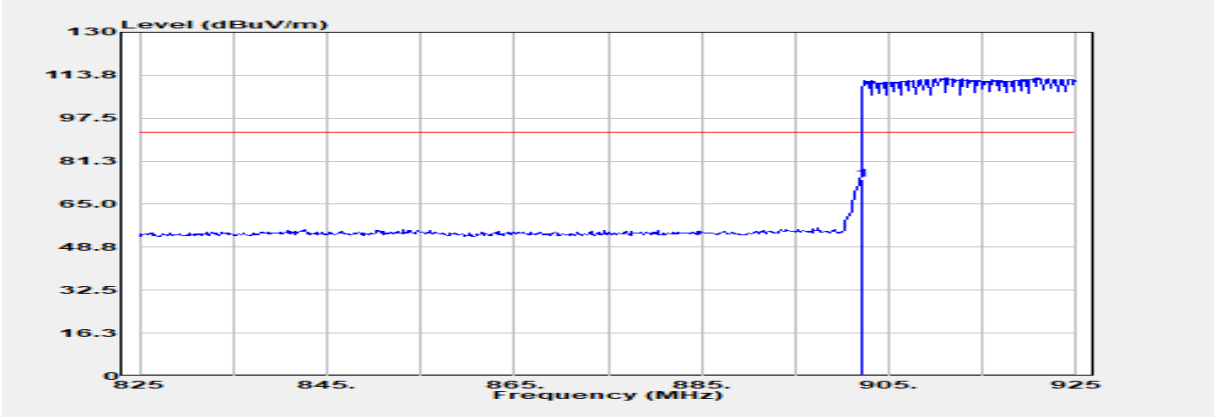
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
928.000	Peak	87.41	-6.27	81.14	90.30	-9.16

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-14
Test Frequency	:927.6 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Enzo Chang



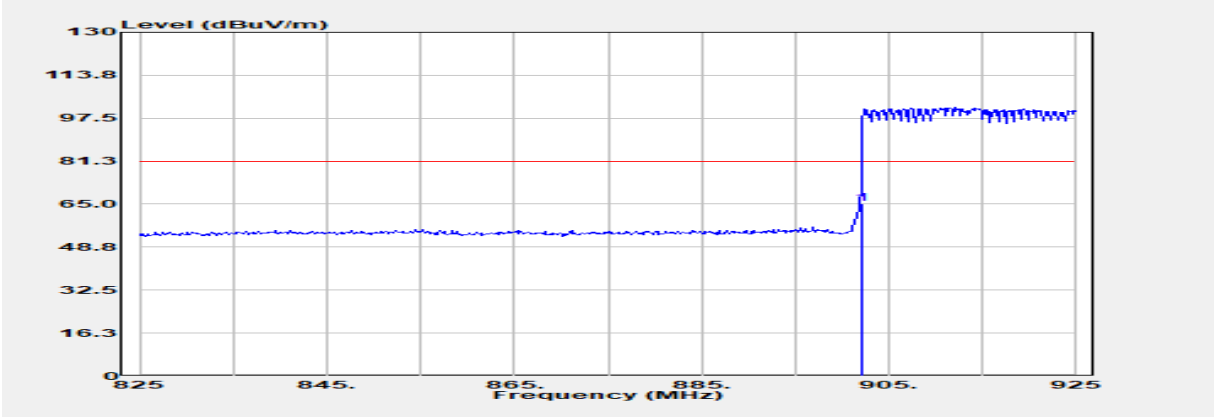
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
928.000	Peak	80.26	-6.27	73.99	81.72	-7.73

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base Hopping	Test Date	:2021-09-14
Test Frequency	:902.4 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Enzo Chang



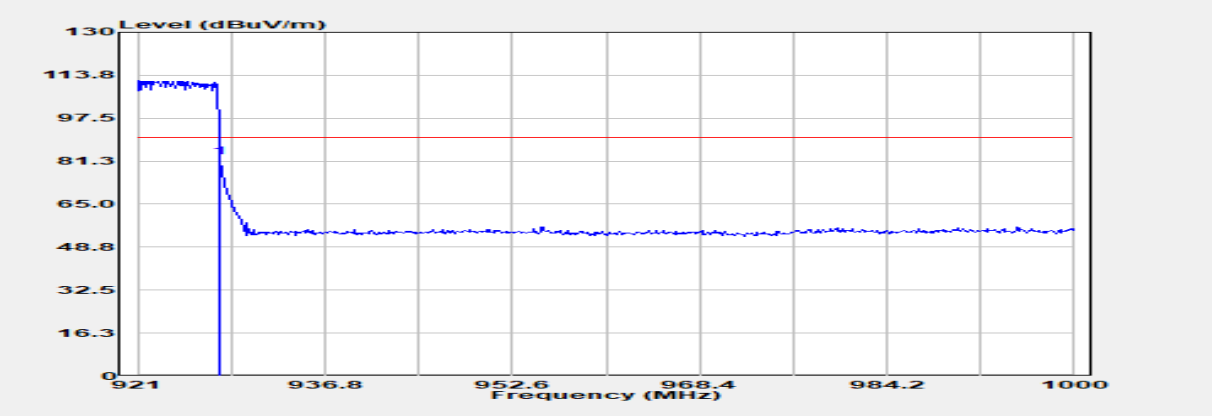
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
902.000	Peak	80.57	-6.17	74.40	92.32	-17.92

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base Hopping	Test Date	:2021-09-14
Test Frequency	:902.4 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Enzo Chang



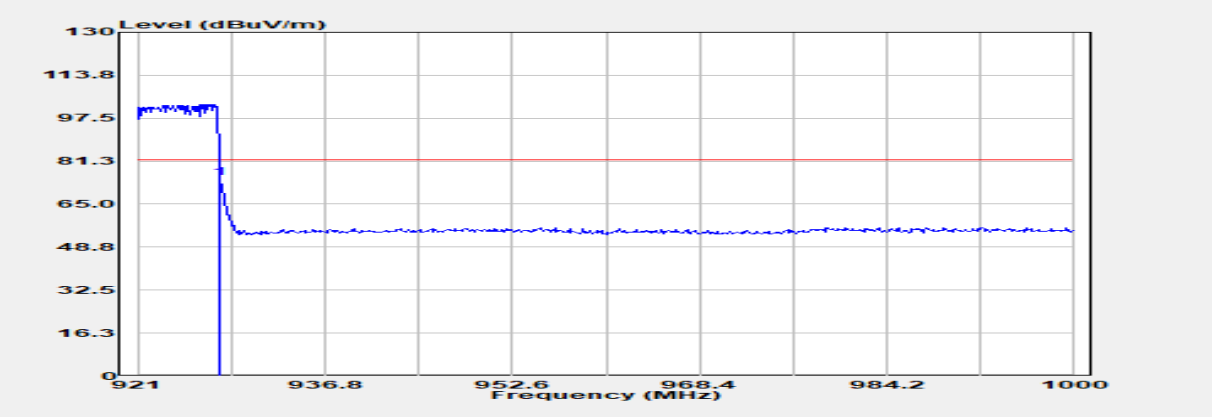
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
902.000	Peak	71.28	-6.17	65.11	81.16	-16.05

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base Hopping	Test Date	:2021-09-14
Test Frequency	:927.6 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
928.000	Peak	89.02	-6.27	82.75	90.30	-7.55

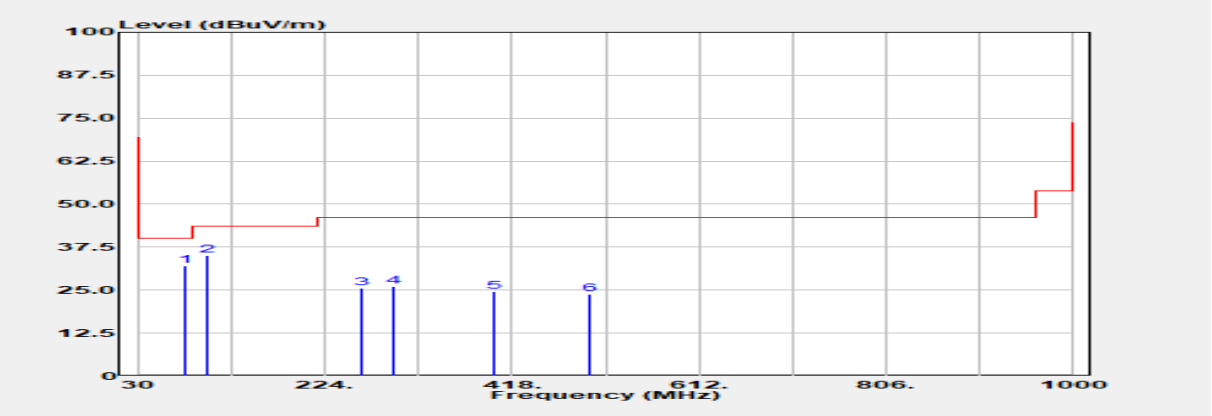
Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base Hopping	Test Date	:2021-09-14
Test Frequency	:927.6 MHz	Temp./Humi.	:23.3/61
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
928.000	Peak	81.14	-6.27	74.88	81.72	-6.84

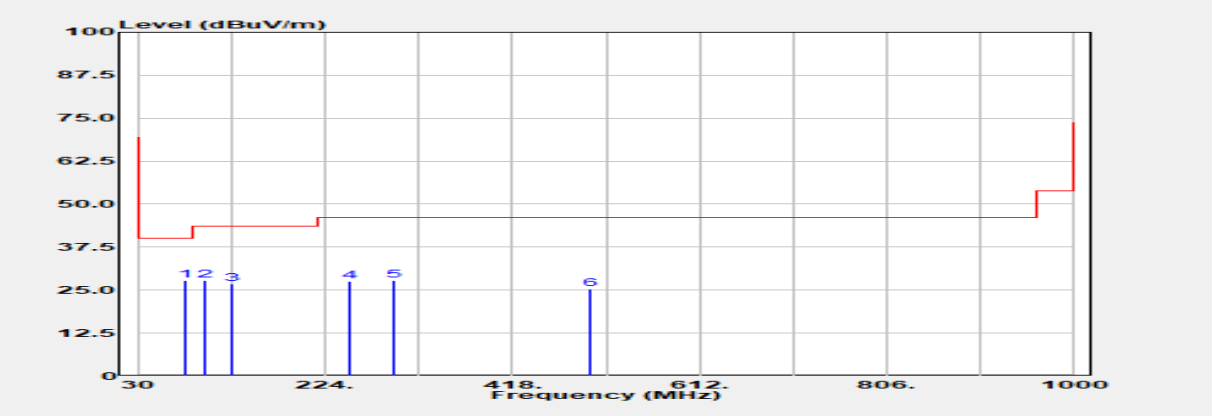
10.7.2 Radiated Spurious Emission form 30MHz to 1000MHz:

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:915.2 MHz	Temp./Humi.	:23.4/60
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
78.189	Peak	53.81	-21.71	32.11	40.00	-7.89
101.506	Peak	54.62	-19.52	35.10	43.50	-8.40
263.173	Peak	40.66	-15.21	25.45	46.00	-20.55
294.263	Peak	41.51	-15.51	26.00	46.00	-20.00
399.968	Peak	37.00	-12.33	24.67	46.00	-21.33
499.455	Peak	34.49	-10.63	23.86	46.00	-22.14

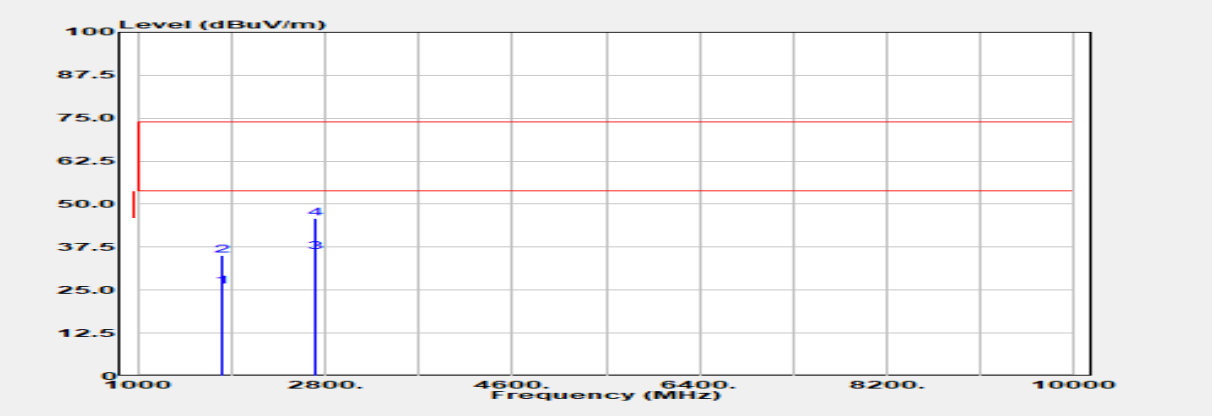
Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:915.2 MHz	Temp./Humi.	:23.4/60
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
79.744	Peak	49.39	-21.60	27.79	40.00	-12.21
98.397	Peak	47.97	-20.21	27.76	43.50	-15.74
127.933	Peak	43.65	-16.91	26.74	43.50	-16.76
249.183	Peak	43.86	-16.22	27.64	46.00	-18.36
294.263	Peak	43.32	-15.51	27.81	46.00	-18.19
499.455	Peak	35.87	-10.63	25.24	46.00	-20.76

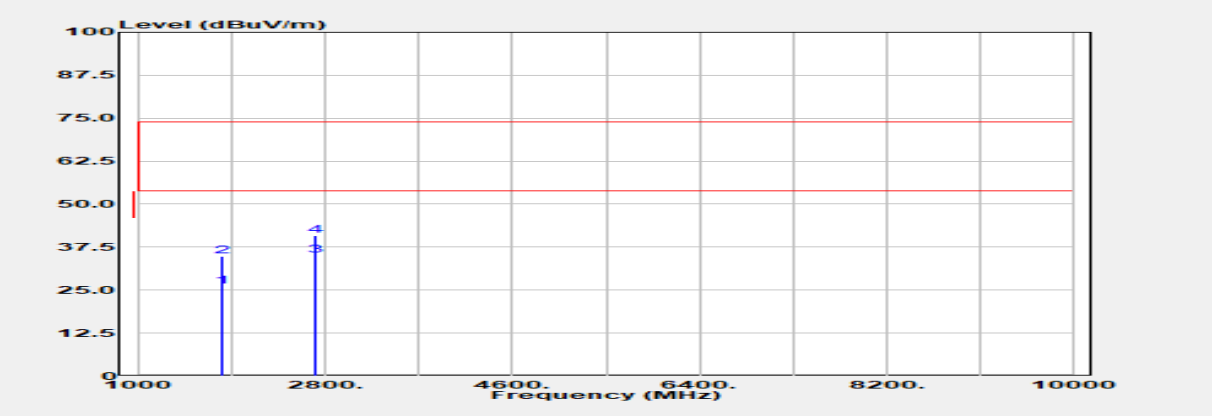
10.7.1 Radiated Spurious Emission above 1 GHz:

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:902.4 MHz	Temp./Humi.	:23.5/59
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Enzo Chang



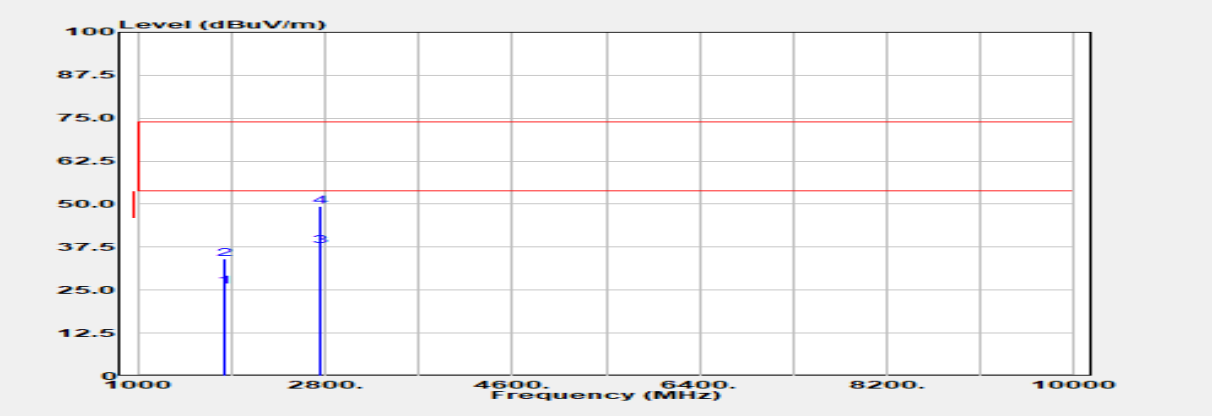
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1804.800	Average	24.93	1.24	26.17	54.00	-27.83
1804.800	Peak	33.86	1.24	35.10	74.00	-38.90
2707.200	Average	29.66	6.38	36.04	54.00	-17.96
2707.200	Peak	39.54	6.38	45.92	74.00	-28.08

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:902.4 MHz	Temp./Humi.	:23.5/59
Test Mode	:TX CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Enzo Chang



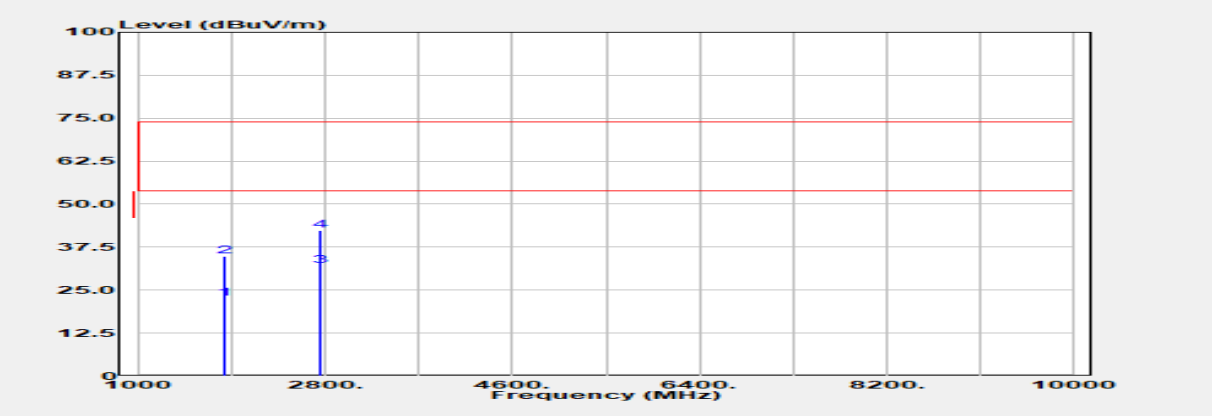
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1804.800	Average	24.85	1.24	26.09	54.00	-27.91
1804.800	Peak	33.62	1.24	34.85	74.00	-39.15
2707.200	Average	28.62	6.38	35.00	54.00	-19.00
2707.200	Peak	34.36	6.38	40.75	74.00	-33.25

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:915.2 MHz	Temp./Humi.	:23.5/59
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Enzo Chang



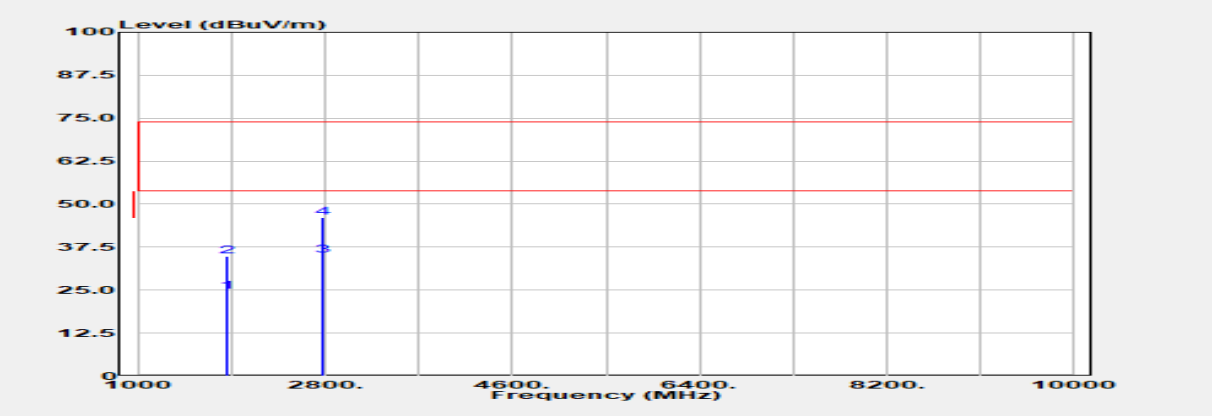
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1830.400	Average	25.18	0.99	26.17	54.00	-27.83
1830.400	Peak	33.14	0.99	34.13	74.00	-39.87
2745.600	Average	31.12	6.78	37.90	54.00	-16.10
2745.600	Peak	42.71	6.78	49.48	74.00	-24.52

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:915.2 MHz	Temp./Humi.	:23.5/59
Test Mode	:TX CH MID	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Enzo Chang



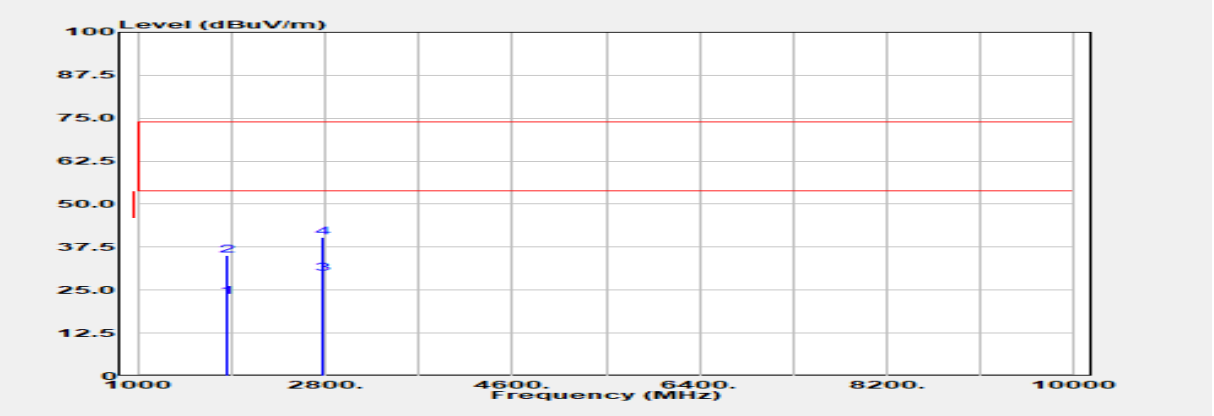
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1830.400	Average	21.57	0.99	22.56	54.00	-31.44
1830.400	Peak	33.77	0.99	34.76	74.00	-39.24
2745.600	Average	25.39	6.78	32.17	54.00	-21.83
2745.600	Peak	35.67	6.78	42.44	74.00	-31.56

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:927.6 MHz	Temp./Humi.	:23.5/59
Test Mode	:TX CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1855.200	Average	23.41	1.24	24.66	54.00	-29.35
1855.200	Peak	33.47	1.24	34.72	74.00	-39.28
2782.800	Average	27.88	7.13	35.01	54.00	-18.99
2782.800	Peak	38.86	7.13	45.99	74.00	-28.01

Report Number	:E2/2021/90025	Test Site	:SAC C
Operation Mode	:Charging Base	Test Date	:2021-09-15
Test Frequency	:927.6 MHz	Temp./Humi.	:23.5/59
Test Mode	:TX CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
1855.200	Average	21.81	1.24	23.06	54.00	-30.95
1855.200	Peak	33.79	1.24	35.03	74.00	-38.97
2782.800	Average	22.75	7.13	29.88	54.00	-24.12
2782.800	Peak	33.24	7.13	40.37	74.00	-33.63

11 FREQUENCY SEPARATION

11.1 Standard Applicable

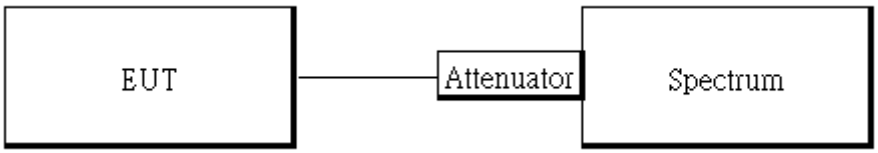
Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

11.2 Measurement Equipment Used:

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	**MFR/BRAND**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2021	07/06/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F2A196C	RF70	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNACK	PE8210	RF151	11/19/2020	11/18/2021
Notebook	Lenovo	L480	P0002332	N/A	N/A

Note: N.C.R refers to Not Calibrated Required

11.3 Test Set-up:



11.4 Measurement Procedure:

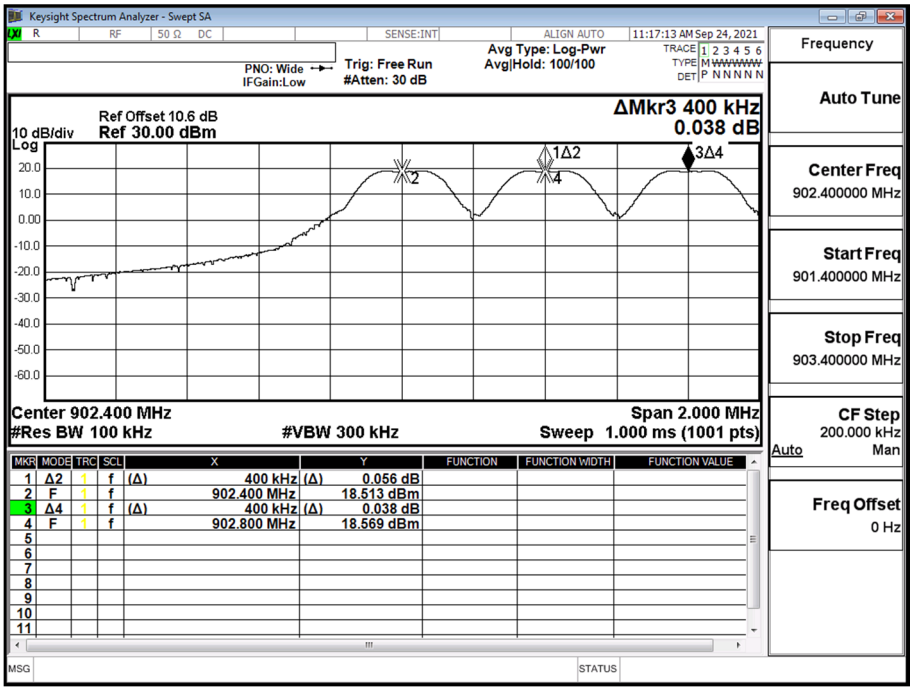
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = middle of hopping channel.
5. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 1.5MHz, Sweep = auto.
6. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

11.5 Measurement Result:

Channel separation	Limit	Result
400K	>=25 kHz or 20dB bandwidth	PASS

Note: Refer to next page for plots.

11.6 Frequency Separation Test Data



12 NUMBER OF HOPPING FREQUENCY

12.1 Standard Applicable

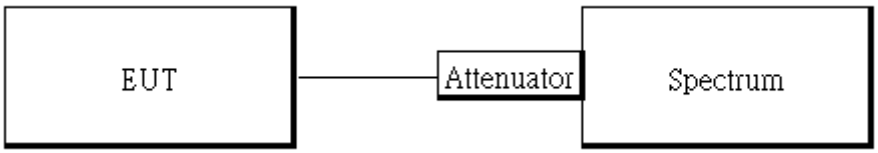
Frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

12.2 Measurement Equipment Used:

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	**MFR/BRAND**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2021	07/06/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F2A196C	RF70	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNACK	PE8210	RF151	11/19/2020	11/18/2021
Notebook	Lenovo	L480	P0002332	N/A	N/A

Note: N.C.R refers to Not Calibrated Required

12.3 Test Set-up:



12.4 Measurement Procedure:

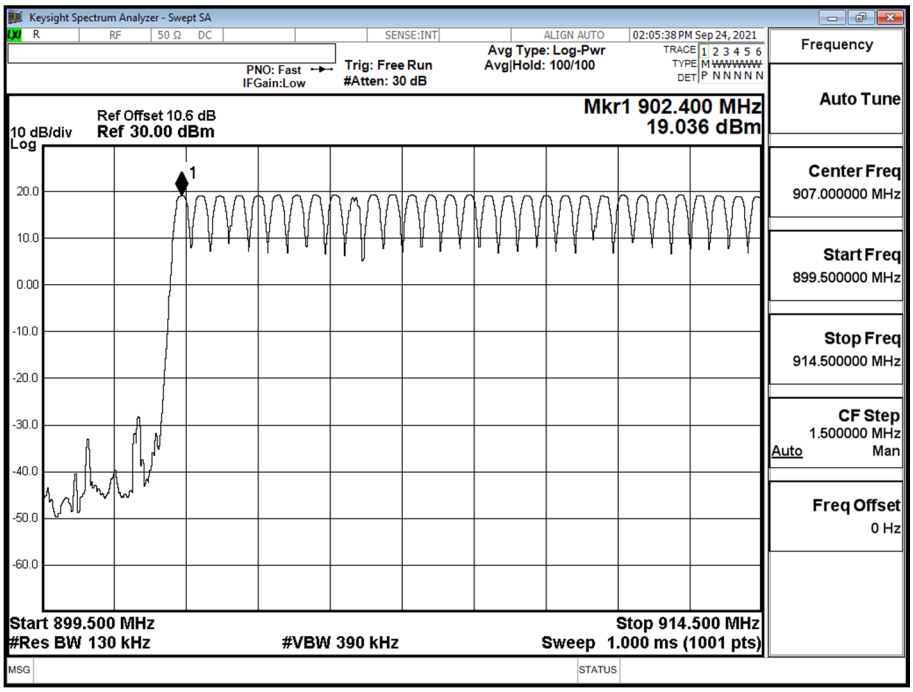
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set spectrum analyzer Start= 902.4MHz, Stop = 927.6MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW=300 kHz, VBW= 1MHz., Detector = Peak
6. Max hold, view and count how many channel in the band.

12.5 Measurement Result:

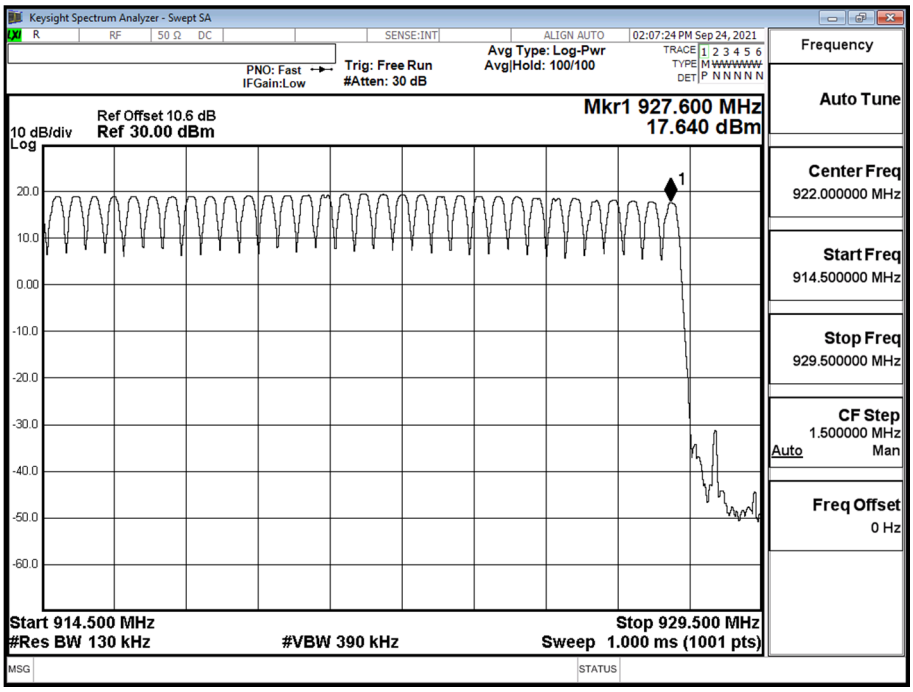
Wireless Microphone

Frequency (MHz)	Number of Hopping frequency	Limit (OBW < 250KHz)
902.4 - 927.6	64	> 50

Hopping Frequency_ Charging Base _low



Hopping Frequency_ Charging Base _High



13 TIME OF OCCUPANCY (DWELL TIME)

13.1 Standard Applicable

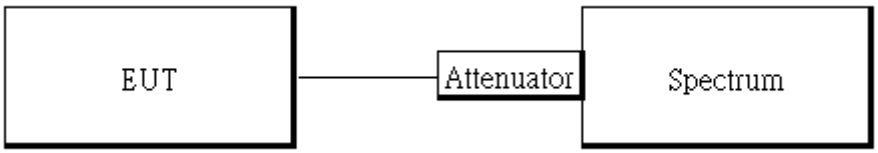
Frequency hopping systems operating in the 902MHz-928MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within a period of 20 seconds.

13.2 Measurement Equipment Used:

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	**MFR/BRAND**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2021	07/06/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F2A196C	RF70	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNACK	PE8210	RF151	11/19/2020	11/18/2021
Notebook	Lenovo	L480	P0002332	N/A	N/A

Note: N.C.R refers to Not Calibrated Required

13.3 Test Set-up:



13.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=100KHz, 300KHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 50ms.
6. Repeat above procedures until all frequency of the interest measured were complete.
7. The measurements are using the normal operation of the equipment.

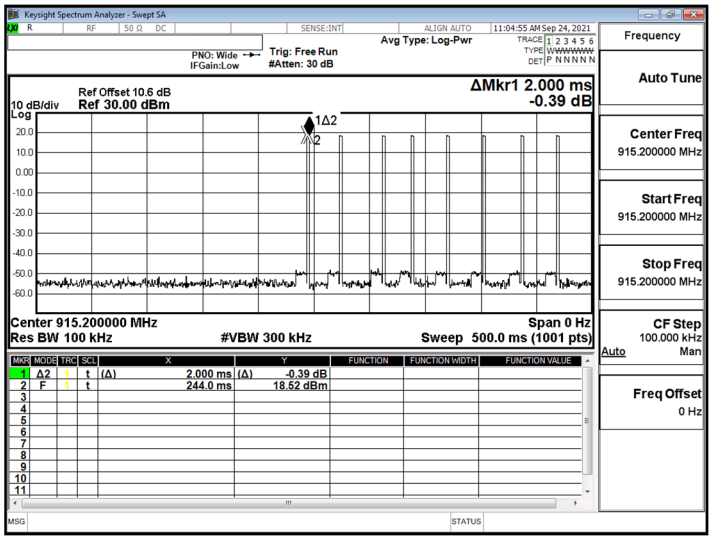
13.5 Tabular Result of the Measurement:

Charging Base

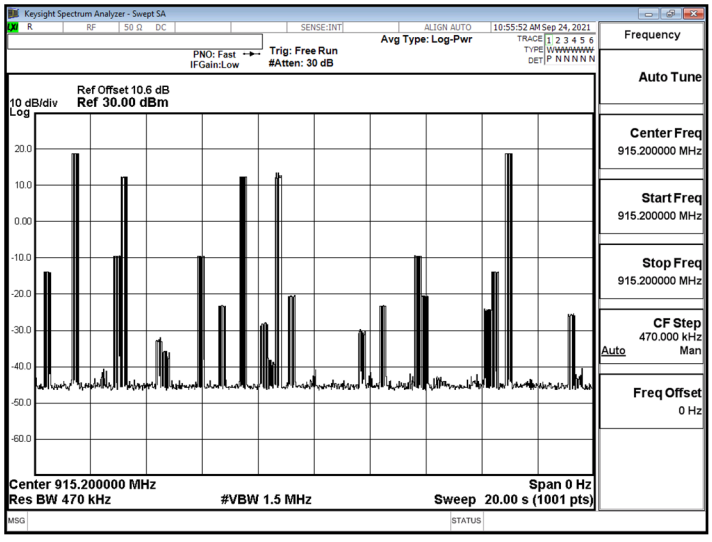
Channel	Measurement Result (ms)	Limit within 20s (ms)
32	80.00	400

13.6 Measurement Result:

Dwell Time_ Wireless Microphone _915.2 -Hopping-1



Dwell Time_ Wireless Microphone _915.2 -Hopping-2



14 ANTENNA REQUIREMENT

14.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

14.2 Antenna Connected Construction

The antenna is designed with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~