NVLAP LAB CODE 600341-0

TEST REPORT

Applicant:	**EVOTE INTERNATIONAL LIMITED**
Address:	**FLAT/RM A 12/F ZJ 300 300 LOCKHART ROAD WAN CHAI, HONGKONG, China**
Product Name:	**TWO WAY RADIO(GMRS RADIO)**
FCC ID:	**2A6DTET006**
Standard(s):	**FCC Part 15B** **ANSI C63.4-2014**
Report Number:	**XMTN1240320-14282E-RF-00A**
Report Date:	**2024/5/22**

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

Reviewed By: Gavin Xu	**Approved By:** Ivan Cao
Title: RF Engineer	Title: EMC Manager

Bay Area Compliance Laboratories Corp. (Dongguan)
No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China
Tel: +86-769-86858888
Fax: +86-769-86858891
www.baclcorp.com.cn

CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	XMTN1240320-14282E-RF-00A	Original Report	2024/5/22

1. GENERAL INFORMATION

1.1 General Description Of Equipment Under Test

Product Name:	TWO WAY RADIO(GMRS RADIO)
Test Model:	KG-S65G
Multiple Models:	KG-S65G+, KG-S65G Plus, KG-S65GX, KG-S65GR, KG-S68G, KG-S68G+, KG-S68G Plus, KG-S68GX, KG-S68GR
Highest Operation Frequency:	480MHz
Rated Input Voltage:	DC 7.4V from battery, DC 5V from USB Port, DC 9V from Charger
Serial Number:	2IZE-2
EUT Received Date:	2024/3/22
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	TESHINE	DSX-120050L-US	Input: 100-240Vac 50/60Hz 0.3A Output: DC 12V 0.5A
Charger	EVOTE INTERNATIONAL LIMITED	Unknown	Input: DC 12V Output: DC 9V

1.3 Equipment Modifications

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

2. SUMMARY OF TEST RESULTS

Standard Clause	Description of Test	Test Result
FCC§15.107	Conducted emissions	Compliant
FCC§15.109	Radiated emissions	Compliant
FCC§15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency And Test Channel:

Operation Modes	Operation Frequency Range (MHz)	Test Frequency (MHz)
UHF Receiving	400-480	400.0125, 440, 479.9875
Scanning	400-480	400-480

3.2 Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user). The following summary table is showing all test modes to demonstrate in compliance with the standard:

Test Items	Test Mode(s)
Radiated Spurious Emission :	Test Mode 1: Charged by Charger & Scanning Test Mode 2: Charged by USB & Scanning Test Mode 3: Charged & Receiving
AC Line Conducted Emission	Test Mode 1: Charged by Charger & Scanning Test Mode 2: Charged by USB & Scanning Test Mode 3: Charged & Receiving
Note: Charged & Receiving mode was tested with the worst charging mode of Charger or USB.	

3.3 EUT Exercise Software

No software was used to test.

3.4 Support Equipment List and Details

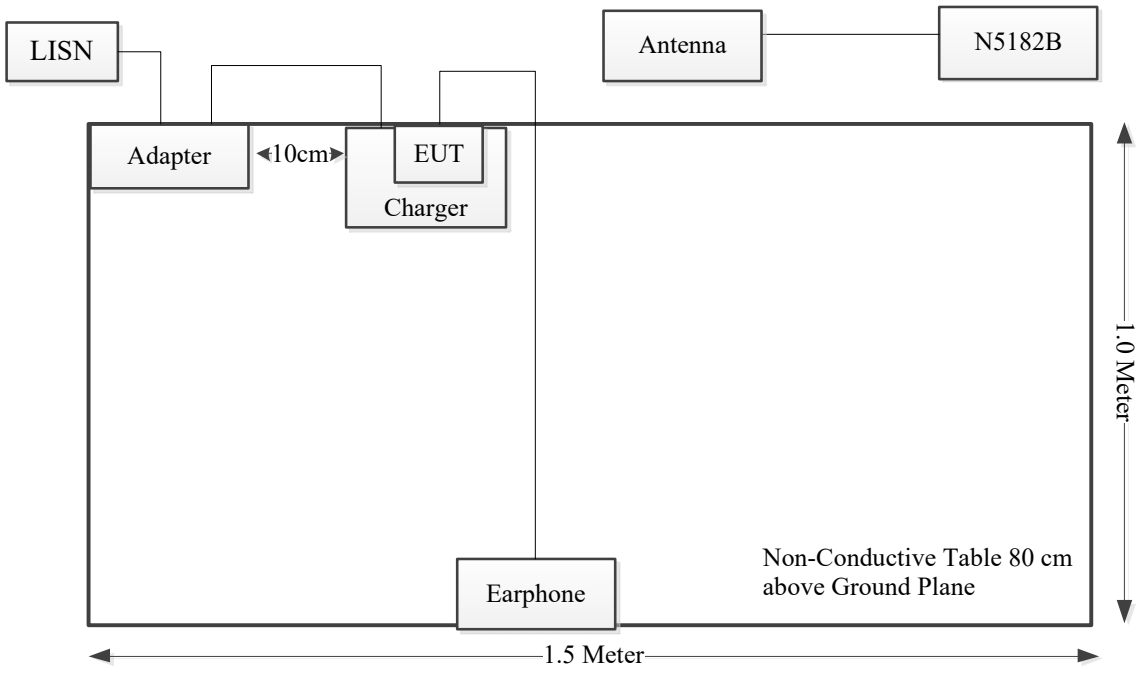
Manufacturer	Description	Model	Serial Number
Agilent	MXG Vector Signal Generator	N5182B	MY51350142
Keenion	Earphone	KDM-911	EMZBEP21103003B
USB Adapter	Infinix	U680XSA	KX0701653232

3.5 Support Cable List and Details

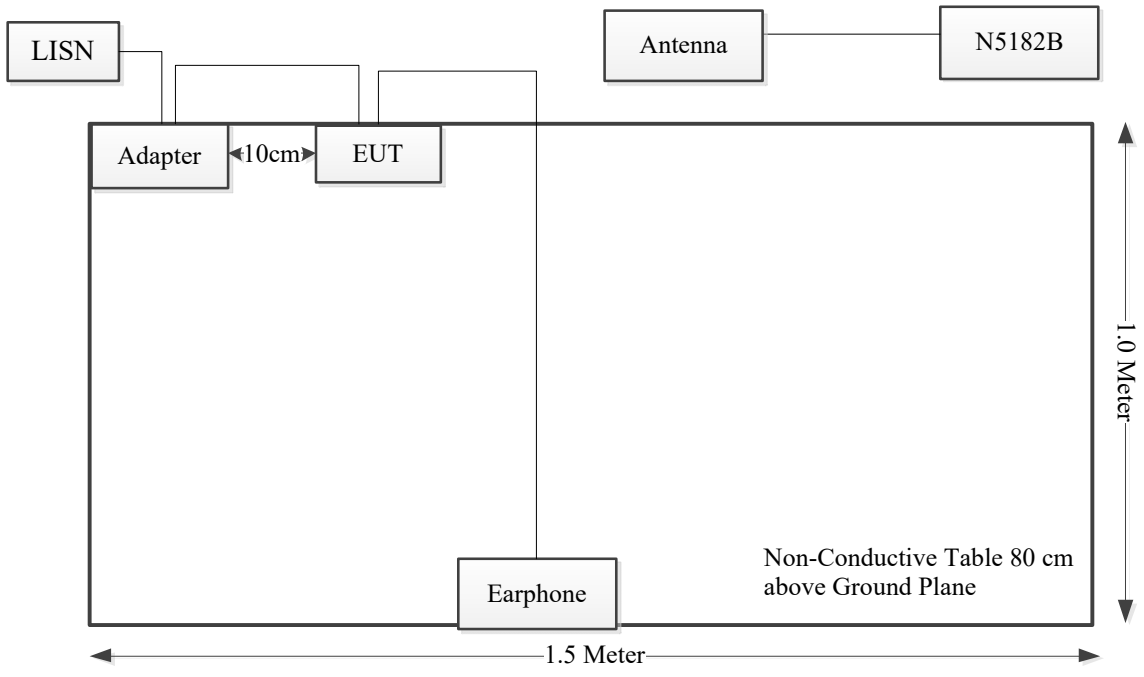
Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
Adapter Cable	No	No	1.0	Adapter	Charger
Earphone Cable	No	No	1.0	EUT	Earphone

3.6 Block Diagram of Test Setup

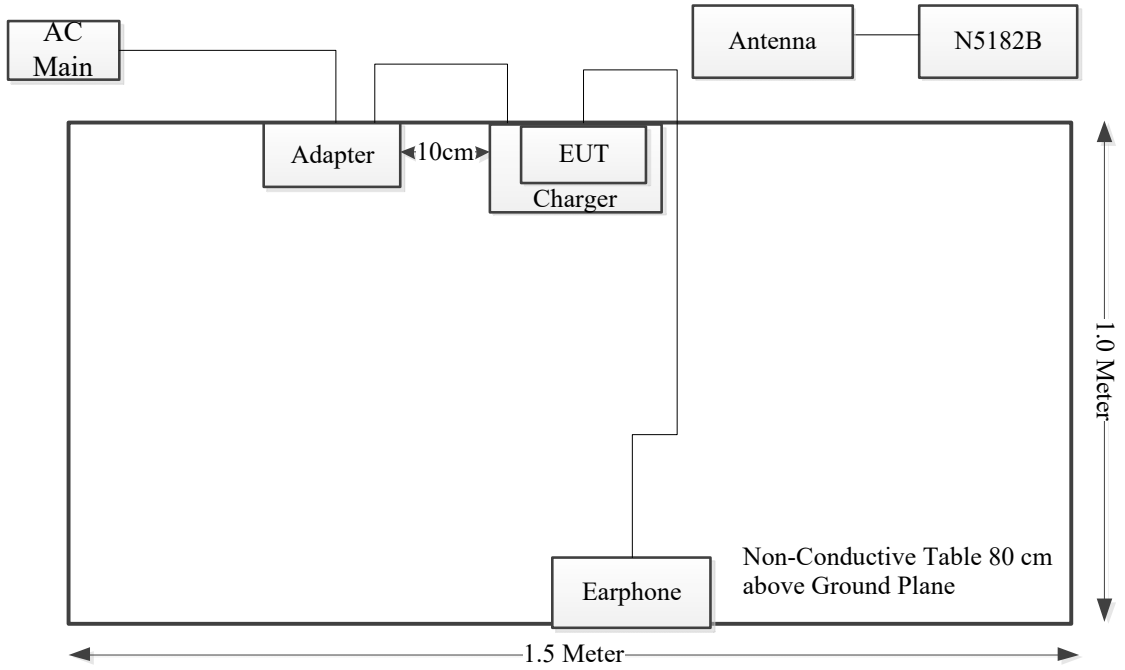
AC Power Lines Conducted Emission:
Charged by Charger:



Charged by USB:



Radiated Emissions:
Charged by Charger:



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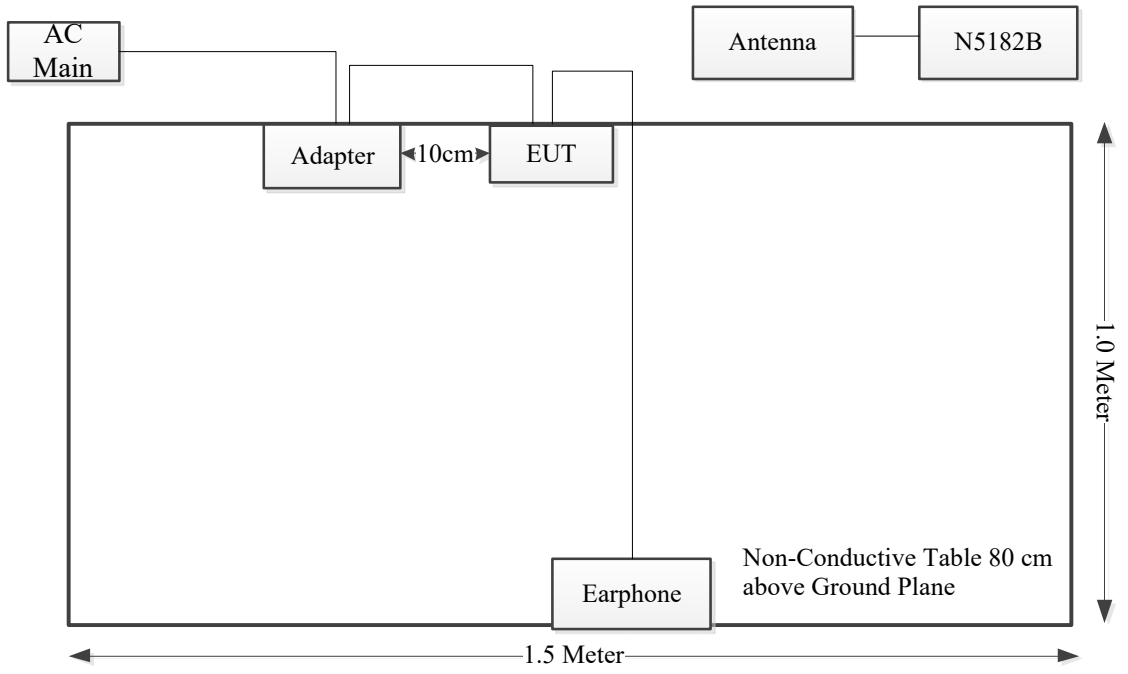


3.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.8 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1℃
Humidity	±5%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST RESULTS

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

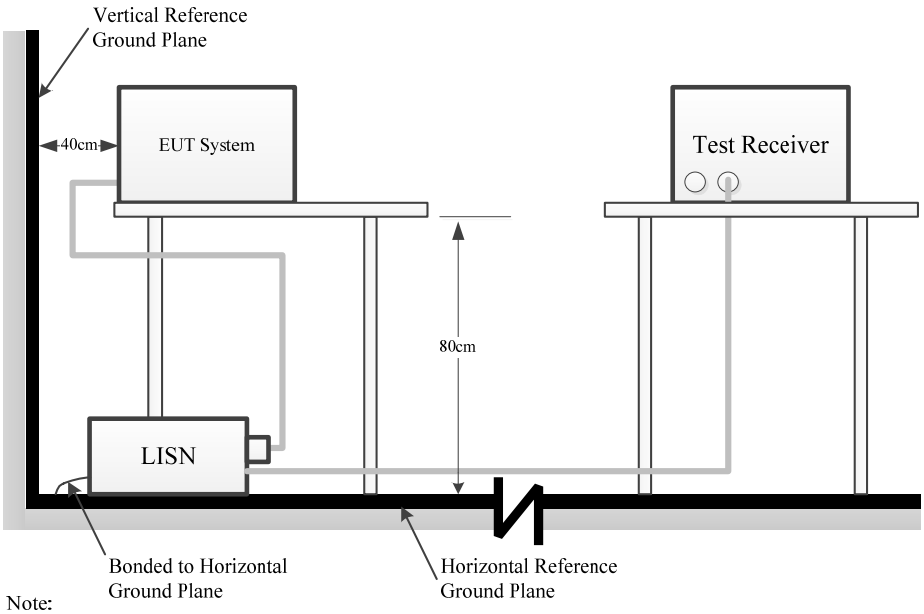
FCC§15.107

(a) Except for Class A digital devices, 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, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges

Frequency of emission (MHz)	Conducted limit (dBμV)	
	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.

4.1.2 EUT Setup



Note:
1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at least 80 cm from other units and oter metal planes support units.

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

4.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Data and Result

Serial Number:	2IZE-2	Test Date:	2024/4/15
Test Site:	CE	Test Mode:	Mode 1, Mode 2, Mode 3
Tester:	Wright Lai	Test Result:	Pass

Environmental Conditions:

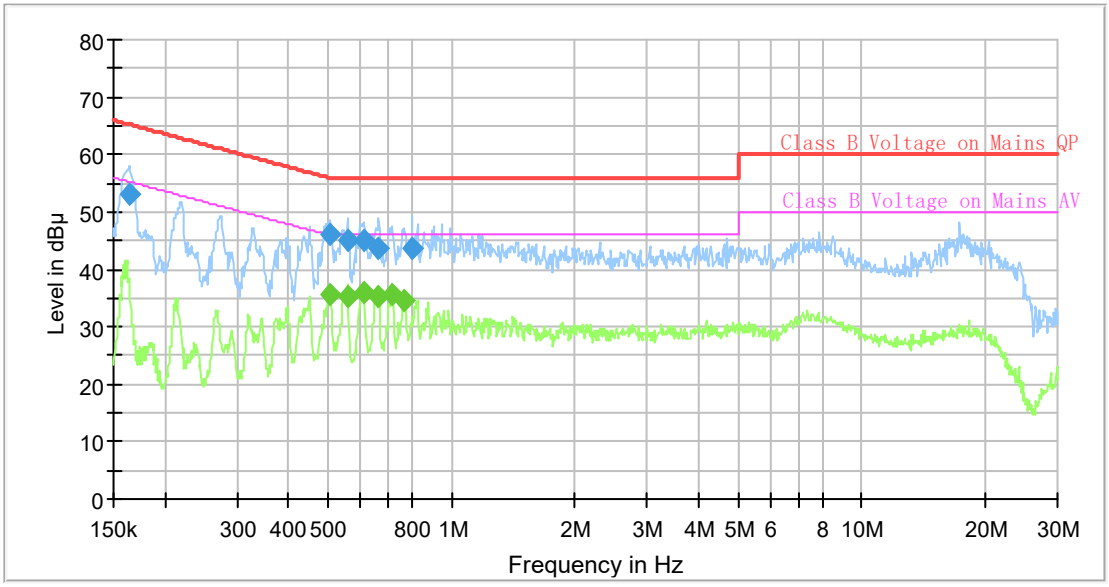
Temperature: (℃)	24.7	Relative Humidity: (%)	61	ATM Pressure: (kPa)	100.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2023/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2023/9/5	2024/9/4
R&S	EMI Test Receiver	ESCI	100035	2023/8/18	2024/8/17
R&S	Test Software	EMC32	V9.10.00	N/A	N/A

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

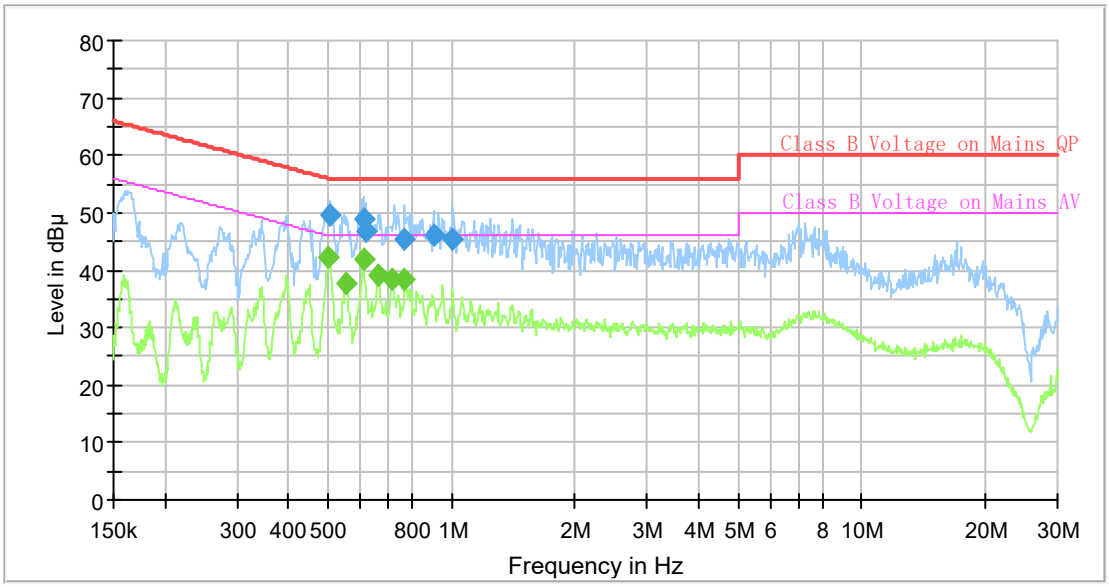
Project No:	XMTN1240320-14282E-RF
Test Date:	2024-4-15
Test Engineer:	Wright Lai
Port:	L
Test Mode:	Charged by Charger& Scanning
Power Source:	AC 120V/60Hz



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.164089	53.05	---	65.25	12.20	9.000	L1	10.8
0.504016	---	35.64	46.00	10.36	9.000	L1	10.8
0.504016	46.05	---	56.00	9.95	9.000	L1	10.8
0.556885	---	35.31	46.00	10.69	9.000	L1	10.8
0.556885	44.99	---	56.00	11.01	9.000	L1	10.8
0.609193	---	35.99	46.00	10.01	9.000	L1	10.8
0.609193	45.09	---	56.00	10.91	9.000	L1	10.8
0.663098	---	35.21	46.00	10.79	9.000	L1	10.8
0.663098	43.53	---	56.00	12.47	9.000	L1	10.8
0.718182	---	35.74	46.00	10.26	9.000	L1	10.9
0.770122	---	34.51	46.00	11.49	9.000	L1	10.9
0.801471	43.56	---	56.00	12.44	9.000	L1	10.9

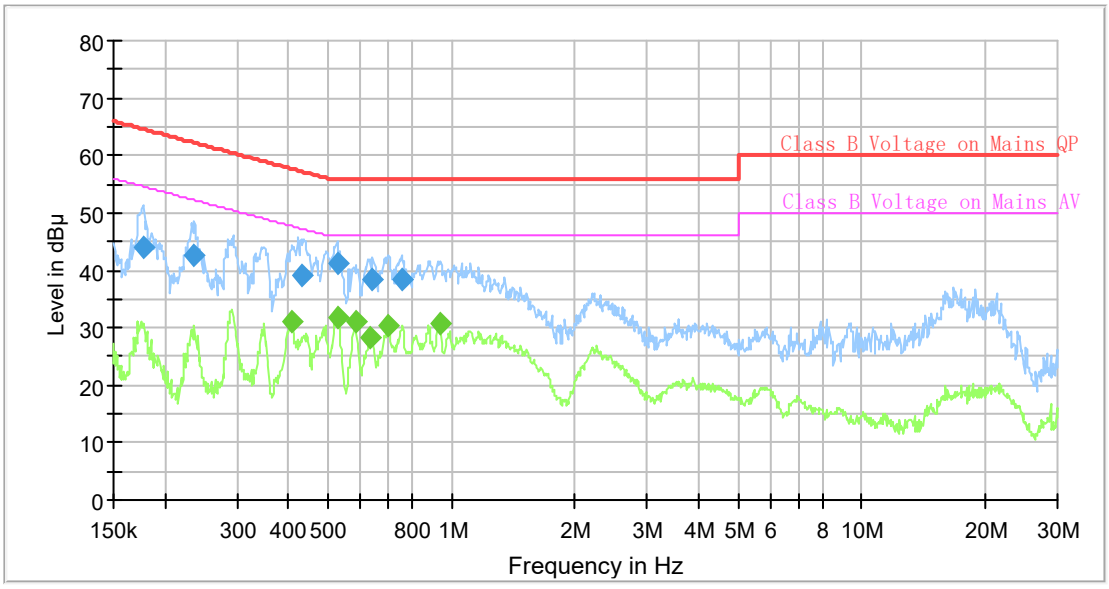
Project No:	XMTN1240320-14282E-RF
Test Date:	2024-4-15
Test Engineer:	Wright Lai
Port:	N
Test Mode:	Charged by Charger& Scanning
Power Source:	AC 120V/60Hz



Final_Result

Frequency (MHz)	QuasiPeak (dB µV)	Average (dB µV)	Limit (dB µV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.501508	---	42.27	46.00	3.73	9.000	N	10.7
0.506536	49.45	---	56.00	6.55	9.000	N	10.7
0.554114	---	37.71	46.00	8.29	9.000	N	10.7
0.609193	---	42.08	46.00	3.92	9.000	N	10.7
0.612239	48.90	---	56.00	7.10	9.000	N	10.7
0.618376	46.92	---	56.00	9.08	9.000	N	10.7
0.659799	---	39.29	46.00	6.71	9.000	N	10.7
0.714609	---	38.35	46.00	7.65	9.000	N	10.8
0.770122	45.53	---	56.00	10.47	9.000	N	10.8
0.770122	---	38.28	46.00	7.72	9.000	N	10.8
0.903386	46.10	---	56.00	9.90	9.000	N	10.8
1.008154	45.44	---	56.00	10.56	9.000	N	10.9

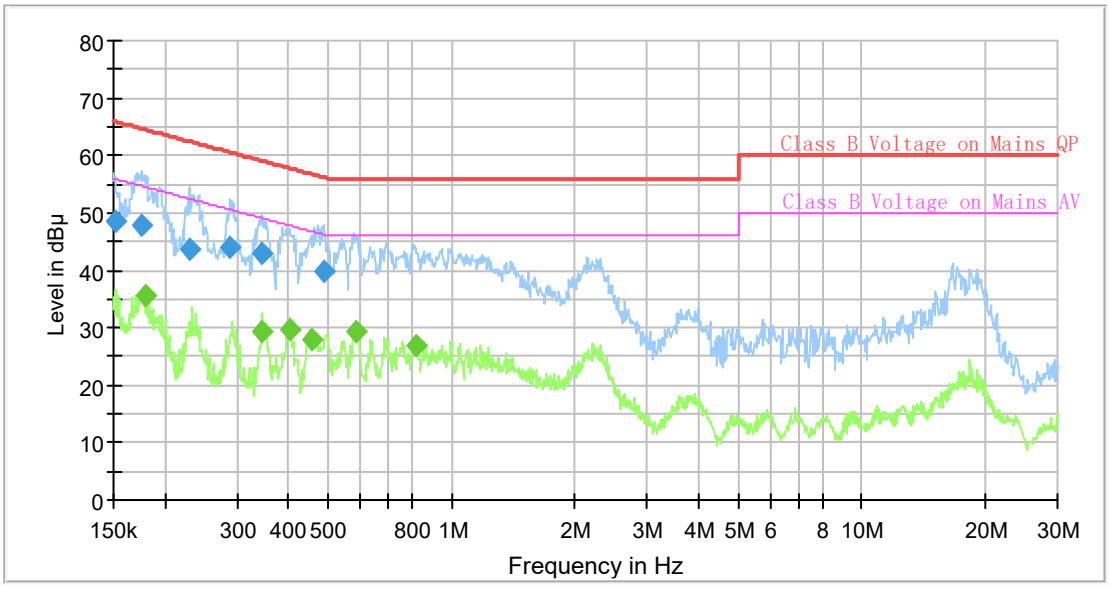
Project No:	XMTN1240320-14282E-RF
Test Date:	2024-4-15
Test Engineer:	Wright Lai
Port:	L
Test Mode:	Charged by USB& Scanning
Power Source:	AC 120V/60Hz



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.176836	44.00	---	64.63	20.63	9.000	L1	10.8
0.236158	42.56	---	62.23	19.67	9.000	L1	10.8
0.406728	---	31.06	47.71	16.65	9.000	L1	10.8
0.429665	39.18	---	57.26	18.08	9.000	L1	10.8
0.527156	---	31.73	46.00	14.27	9.000	L1	10.8
0.527156	41.23	---	56.00	14.77	9.000	L1	10.8
0.582452	---	31.05	46.00	14.95	9.000	L1	10.8
0.633991	---	28.23	46.00	17.77	9.000	L1	10.8
0.643549	38.36	---	56.00	17.64	9.000	L1	10.8
0.700494	---	30.34	46.00	15.66	9.000	L1	10.9
0.754910	38.30	---	56.00	17.70	9.000	L1	10.9
0.935483	---	30.78	46.00	15.22	9.000	L1	10.9

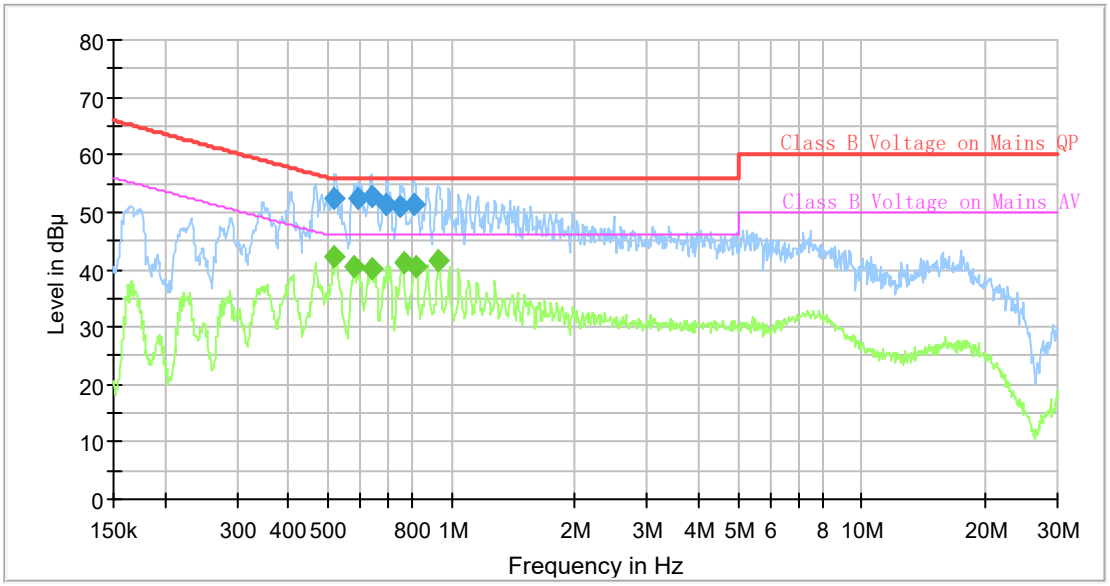
Project No:	XMTN1240320-14282E-RF
Test Date:	2024-4-15
Test Engineer:	Wright Lai
Port:	N
Test Mode:	Charged by USB& Scanning
Power Source:	AC 120V/60Hz



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.151504	48.48	---	65.92	17.44	9.000	N	10.9
0.175956	47.86	---	64.67	16.81	9.000	N	10.9
0.179502	---	35.65	54.51	18.86	9.000	N	10.9
0.229196	43.53	---	62.48	18.95	9.000	N	10.8
0.288300	43.90	---	60.57	16.67	9.000	N	10.8
0.345004	43.09	---	59.08	15.99	9.000	N	10.8
0.346729	---	29.24	49.04	19.80	9.000	N	10.8
0.402691	---	29.63	47.80	18.17	9.000	N	10.8
0.458447	---	28.02	46.72	17.70	9.000	N	10.8
0.486723	39.81	---	56.22	16.41	9.000	N	10.7
0.588291	---	29.43	46.00	16.57	9.000	N	10.7
0.817621	---	26.83	46.00	19.17	9.000	N	10.8

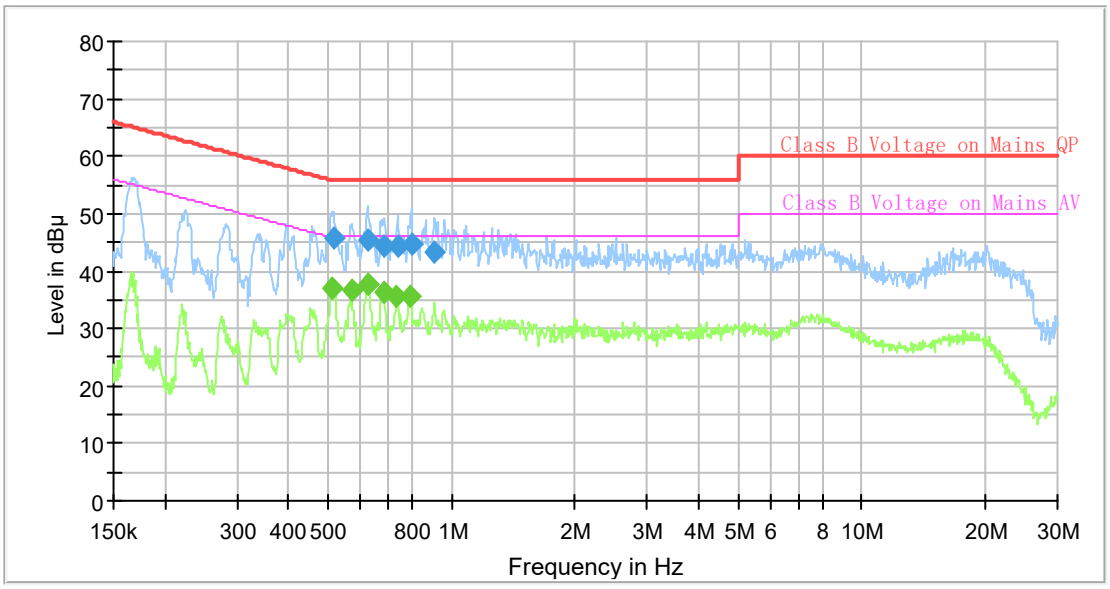
Project No:	XMTN1240320-14282E-RF
Test Date:	2024-4-15
Test Engineer:	Wright Lai
Port:	L
Test Mode:	Charged by Charger& Receiving
Power Source:	AC 120V/60Hz
Note:	440MHz



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.519327	---	42.40	46.00	3.60	9.000	L1	10.8
0.519327	52.23	---	56.00	3.77	9.000	L1	10.8
0.579554	---	40.62	46.00	5.38	9.000	L1	10.8
0.594189	52.35	---	56.00	3.65	9.000	L1	10.8
0.637161	---	40.05	46.00	5.95	9.000	L1	10.8
0.637161	52.87	---	56.00	3.13	9.000	L1	10.8
0.693541	51.23	---	56.00	4.77	9.000	L1	10.9
0.751154	50.89	---	56.00	5.11	9.000	L1	10.9
0.762478	---	41.36	46.00	4.64	9.000	L1	10.9
0.809506	51.35	---	56.00	4.65	9.000	L1	10.9
0.821710	---	40.58	46.00	5.42	9.000	L1	10.9
0.930829	---	41.40	46.00	4.60	9.000	L1	10.9

Project No:	XMTN1240320-14282E-RF
Test Date:	2024-4-15
Test Engineer:	Wright Lai
Port:	L
Test Mode:	Charged by Charger& Receiving
Power Source:	AC 120V/60Hz
Note:	440MHz



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.511614	---	37.11	46.00	8.89	9.000	N	10.7
0.514172	45.79	---	56.00	10.21	9.000	N	10.7
0.570947	---	36.56	46.00	9.44	9.000	N	10.7
0.624575	---	37.82	46.00	8.18	9.000	N	10.7
0.624575	45.26	---	56.00	10.74	9.000	N	10.7
0.683241	---	36.21	46.00	9.79	9.000	N	10.8
0.686657	44.39	---	56.00	11.61	9.000	N	10.8
0.736317	---	35.76	46.00	10.24	9.000	N	10.8
0.739999	44.47	---	56.00	11.53	9.000	N	10.8
0.793516	---	35.76	46.00	10.24	9.000	N	10.8
0.797484	44.74	---	56.00	11.26	9.000	N	10.8
0.907903	43.19	---	56.00	12.81	9.000	N	10.8

4.2 Radiation Spurious Emissions

4.2.1 Applicable Standard

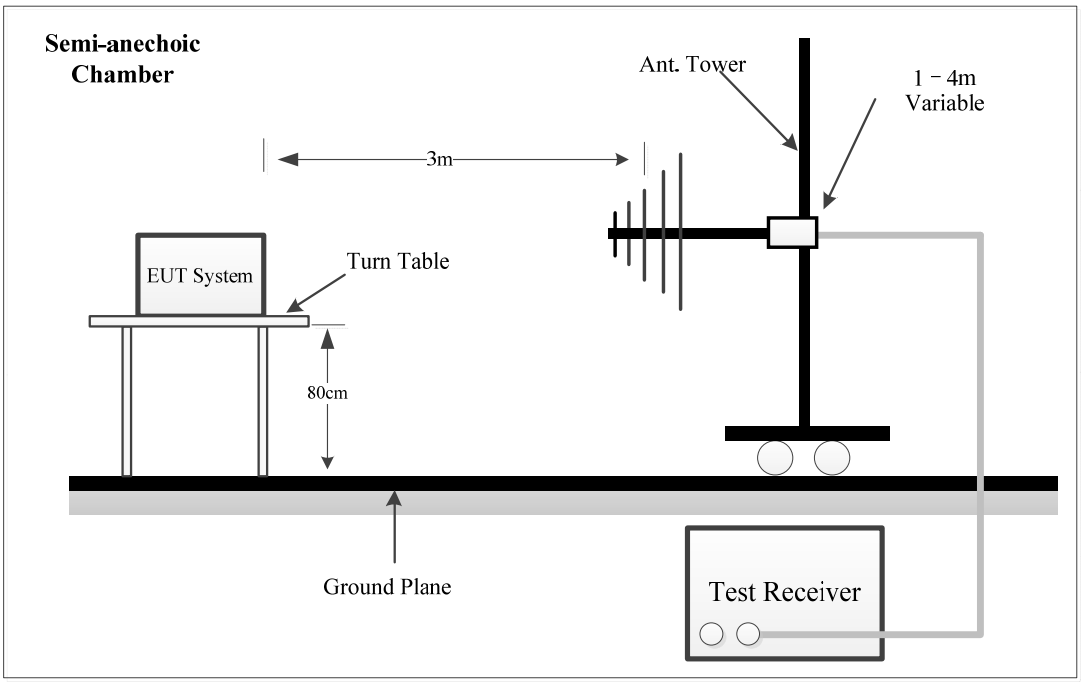
FCC§15.109

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

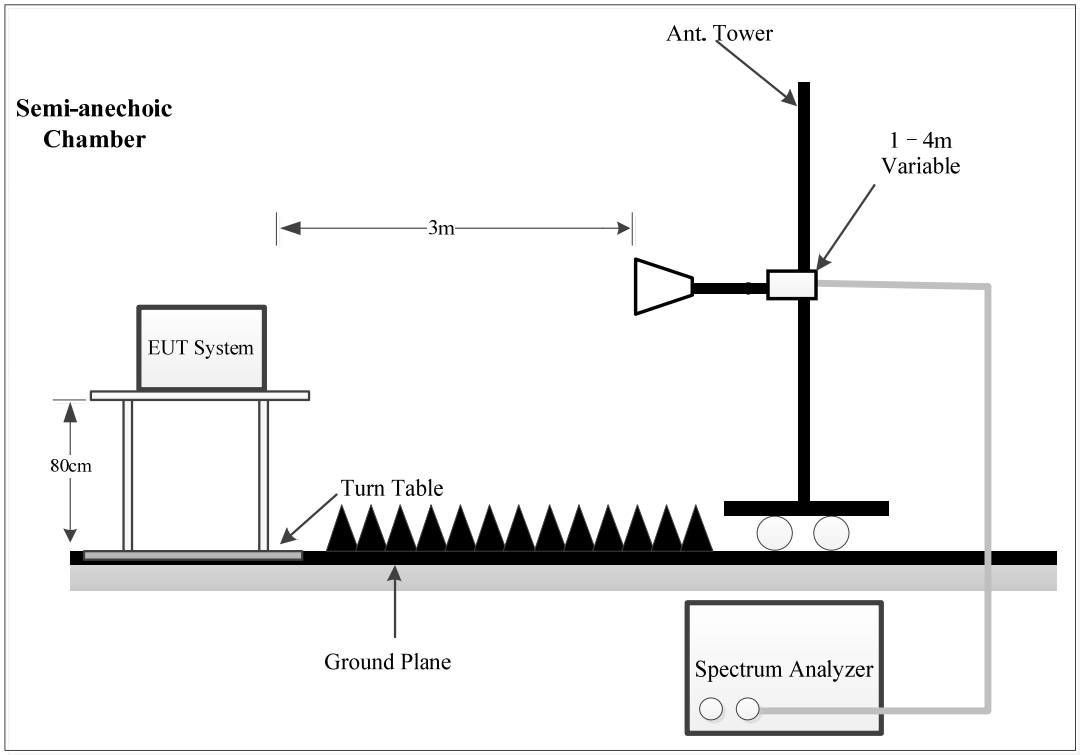
Frequency of emission (MHz)	Field strength (microvolts/meter)
30–88	100
88–216	150
216–960	200
Above 960	500

4.2.2 Test System Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed at the 3 meters distance, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15B Class B limits.

4.2.3 EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30MHz – 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	3MHz	/	AVG

4.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

If the maximized peak measured value complies with under the QP limit more than 6dB, then it is unnecessary to perform an QP measurement.

4.2.5 Corrected Result & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.2.6 Test Data and Result

Serial Number:	2IZE-2	Test Date:	2024/4/11~2024/4/16
Test Site:	Chamber A, Chamber B	Test Mode:	Mode 1, Mode 2, Mode 3
Tester:	Alan Xie, Leesin Xiang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	23.9~26.1	Relative Humidity: (%)	50~51	ATM Pressure: (kPa)	100.5~101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
30MHz-1000MHz					
Sunol Sciences	Hybrid Antenna	JB3	A060611-3	2024/1/12	2027/1/11
Wilson	Attenuator	859936	F-08-EM014	2023/7/1	2024/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2023/7/1	2024/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2023/7/1	2024/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2023/7/1	2024/6/30
Sonoma	Amplifier	310N	372193	2023/7/1	2024/6/30
R&S	EMI Test Receiver	ESR3	102453	2023/8/18	2024/8/17
Audix	Test Software	E3	191218 (V9)	N/A	N/A
Above 1GHz					
AH	Horn Antenna	SAS-571	1177	2023/2/22	2026/2/21
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26EA	2023/9/6	2024/9/5
AH	Preamplifier	PAM-0118P	530	2023/9/1	2024/8/31
Agilent	Spectrum Analyzer	E4440A	MY44303352	2023/10/18	2024/10/17
Audix	Test Software	E3	191218 (V9)	N/A	N/A

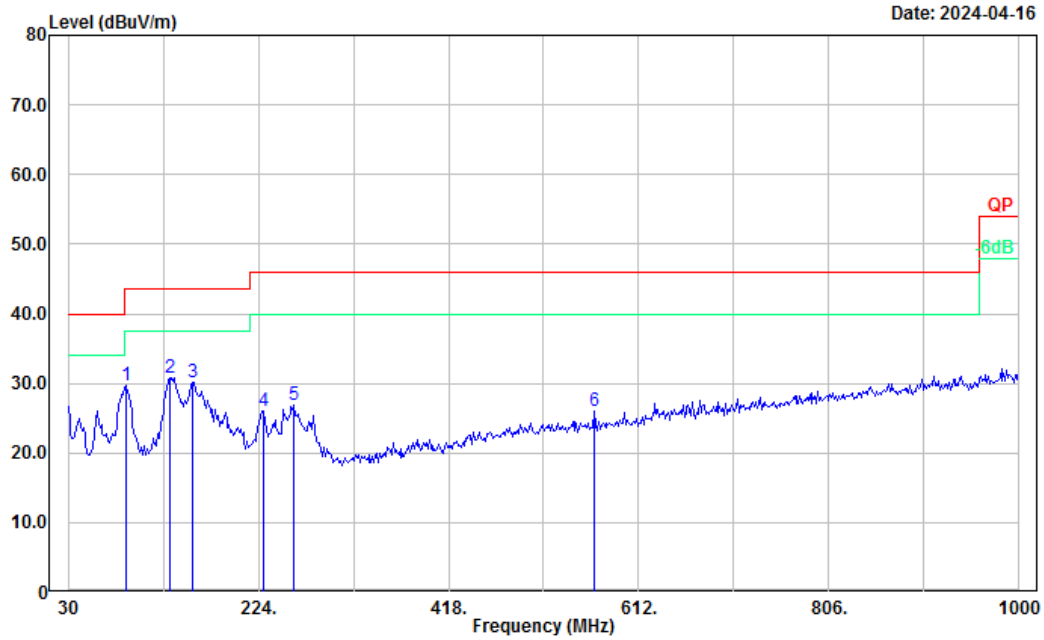
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Teat Data:
Please refer to the below plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

1) 30MHz-1GHz:

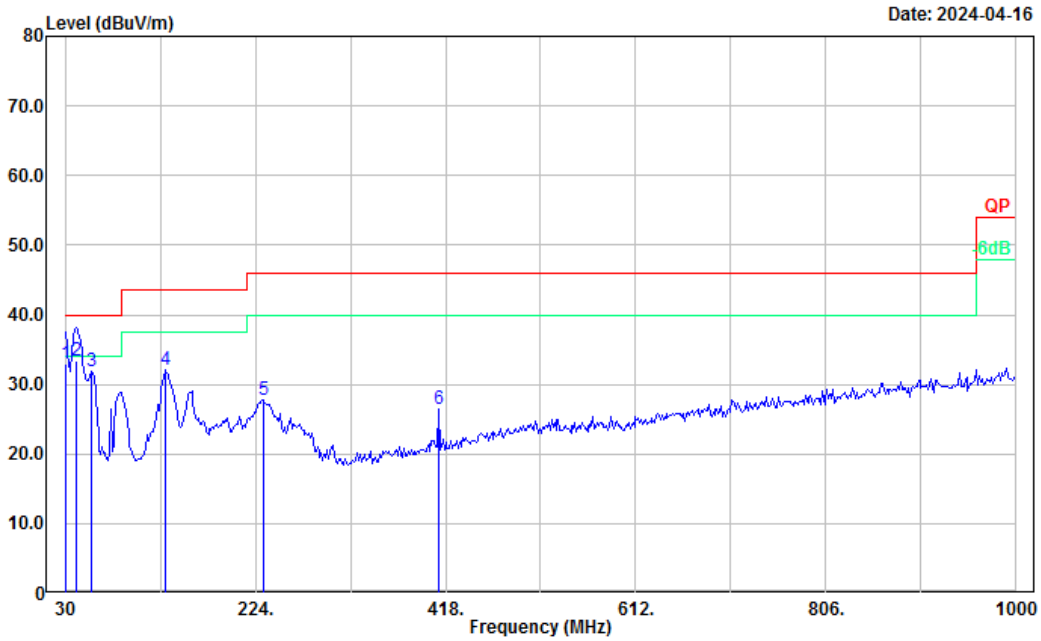
Charged by Charger & Scanning:

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	89.04	45.69	-15.97	29.72	43.50	13.78	Peak
2	134.03	40.72	-9.94	30.78	43.50	12.72	Peak
3	156.52	41.18	-11.01	30.17	43.50	13.33	Peak
4	229.62	36.90	-10.87	26.03	46.00	19.97	Peak
5	260.55	37.43	-10.52	26.91	46.00	19.09	Peak
6	567.01	29.04	-3.00	26.04	46.00	19.96	Peak

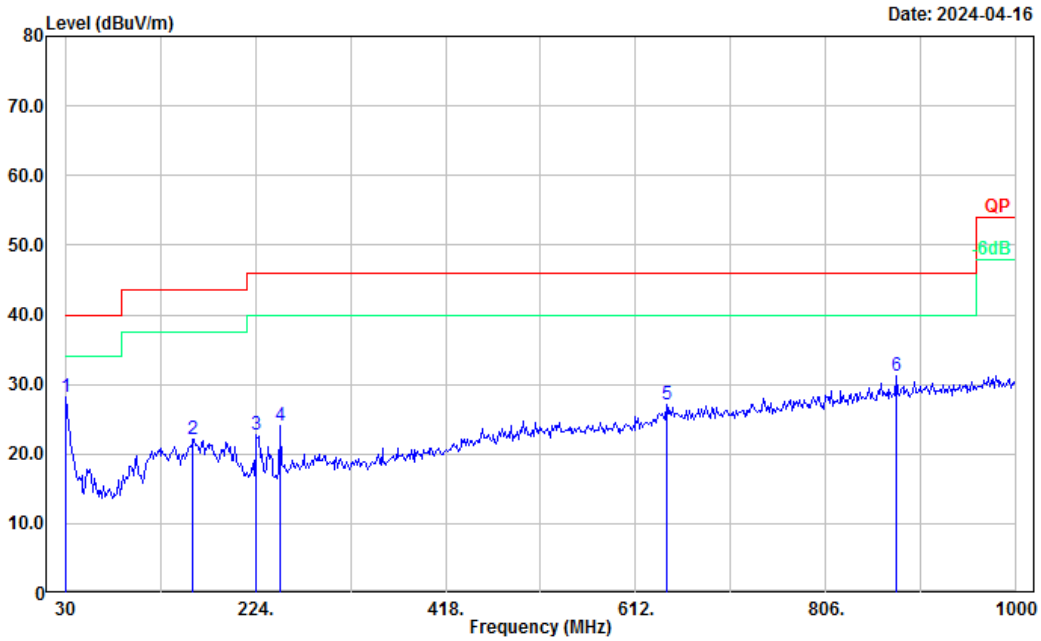
Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	35.90	-2.99	32.91	40.00	7.09	QP
2	41.25	44.00	-10.59	33.41	40.00	6.59	QP
3	56.71	48.31	-16.35	31.96	40.00	8.04	Peak
4	132.62	41.86	-9.83	32.03	43.50	11.47	Peak
5	232.43	38.73	-10.89	27.84	46.00	18.16	Peak
6	410.97	32.65	-6.29	26.36	46.00	19.64	Peak

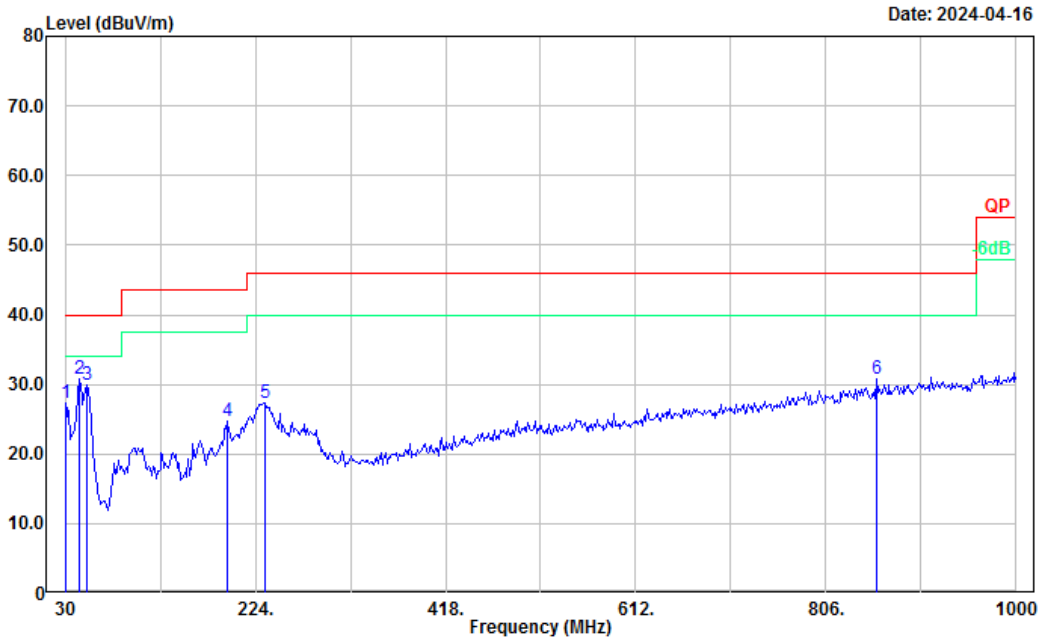
Charged by USB & Scanning:

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	31.07	-2.99	28.08	40.00	11.92	Peak
2	160.74	33.27	-11.13	22.14	43.50	21.36	Peak
3	225.41	33.56	-10.83	22.73	46.00	23.27	Peak
4	249.30	35.04	-10.96	24.08	46.00	21.92	Peak
5	642.93	28.36	-1.26	27.10	46.00	18.90	Peak
6	877.70	28.44	2.85	31.29	46.00	14.71	Peak

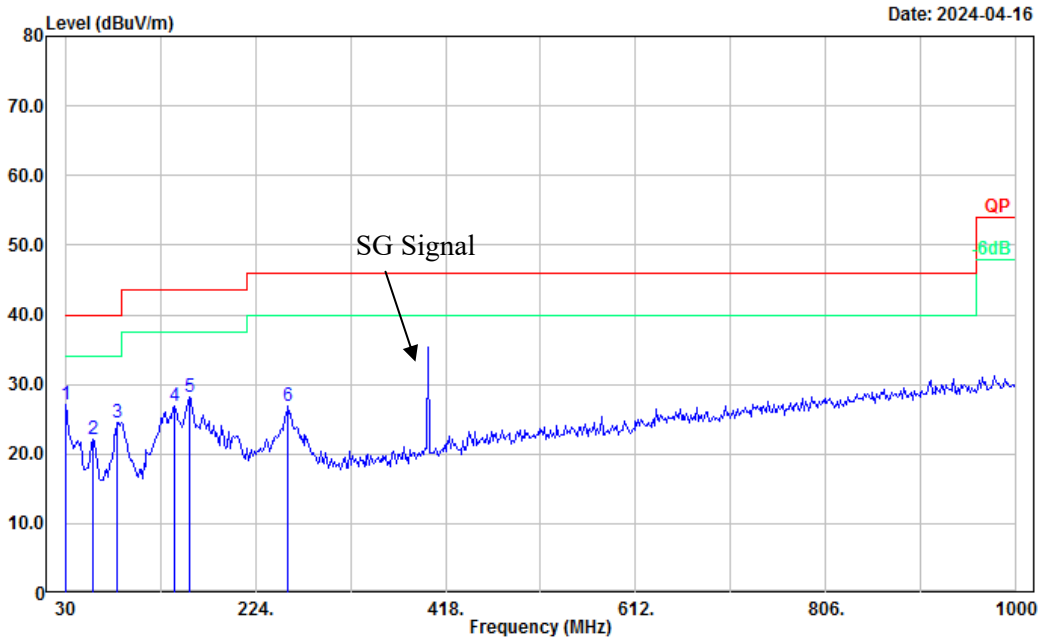
Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	30.29	-2.99	27.30	40.00	12.70	Peak
2	44.06	43.16	-12.43	30.73	40.00	9.27	Peak
3	52.49	46.07	-16.22	29.85	40.00	10.15	Peak
4	195.88	35.92	-11.15	24.77	43.50	18.73	Peak
5	233.84	38.29	-10.91	27.38	46.00	18.62	Peak
6	858.01	28.28	2.45	30.73	46.00	15.27	Peak

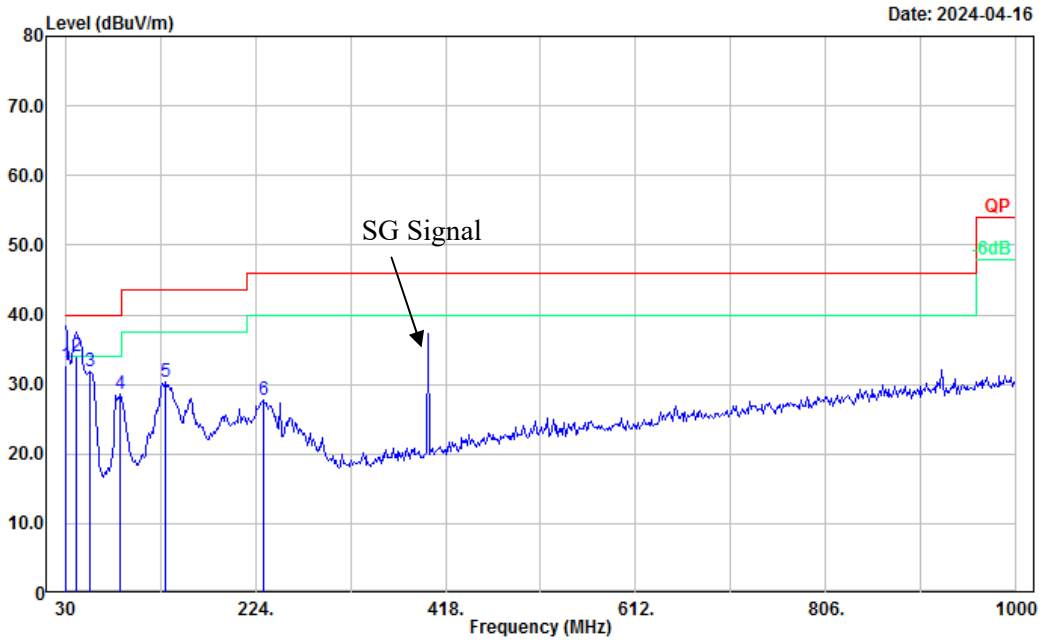
Charged by Charger & Receiving(400.0125MHz):

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	30.00	-2.99	27.01	40.00	12.99	Peak
2	58.12	38.68	-16.47	22.21	40.00	17.79	Peak
3	83.42	40.41	-15.97	24.44	40.00	15.56	Peak
4	141.06	37.13	-10.27	26.86	43.50	16.64	Peak
5	156.52	39.12	-11.01	28.11	43.50	15.39	Peak
6	257.74	37.65	-10.67	26.98	46.00	19.02	Peak

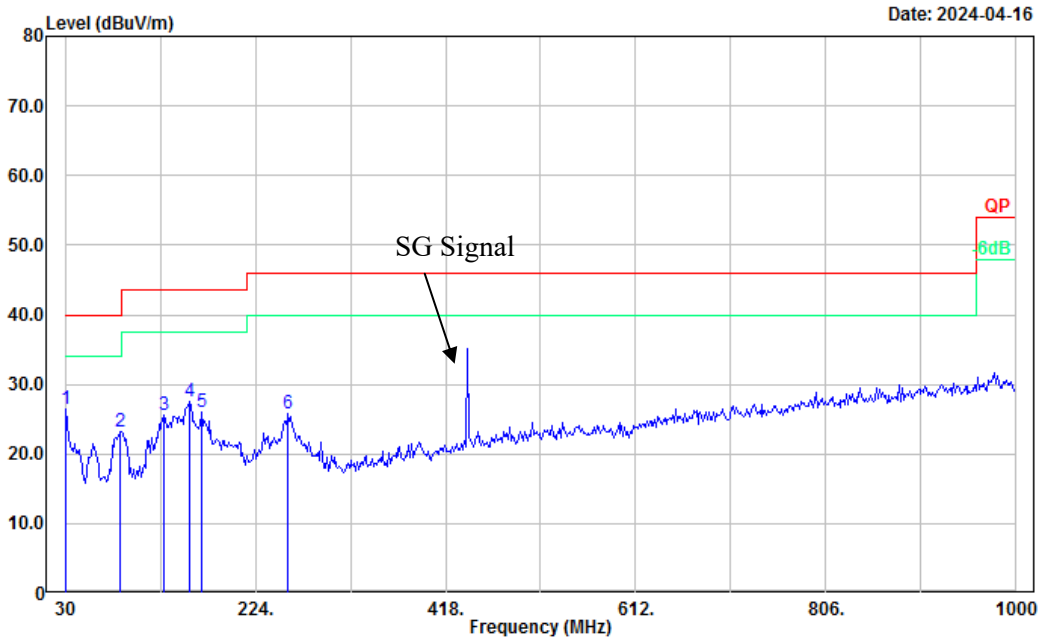
Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	35.68	-2.99	32.69	40.00	7.31	QP
2	41.25	44.57	-10.59	33.98	40.00	6.02	QP
3	55.30	48.15	-16.24	31.91	40.00	8.09	Peak
4	86.23	44.55	-15.90	28.65	40.00	11.35	Peak
5	132.62	40.13	-9.83	30.30	43.50	13.20	Peak
6	232.44	38.57	-10.89	27.68	46.00	18.32	Peak

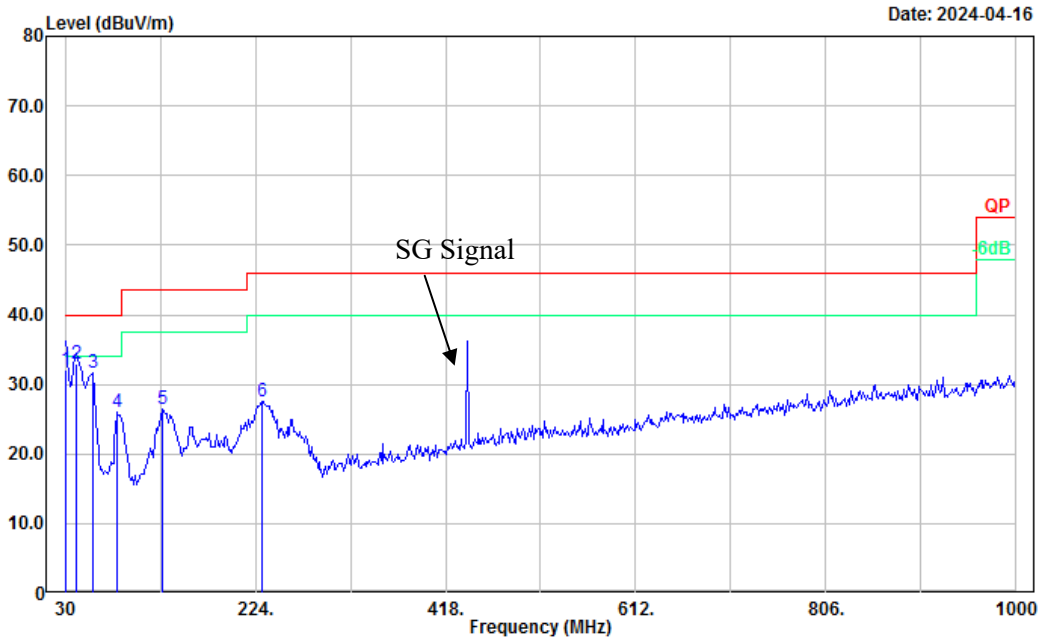
Charged by Charger & Receiving(440MHz):

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	29.53	-2.99	26.54	40.00	13.46	Peak
2	86.23	39.15	-15.90	23.25	40.00	16.75	Peak
3	131.22	35.29	-9.78	25.51	43.50	17.99	Peak
4	156.52	38.44	-11.01	27.43	43.50	16.07	Peak
5	169.17	37.72	-11.64	26.08	43.50	17.42	Peak
6	257.74	36.42	-10.67	25.75	46.00	20.25	Peak

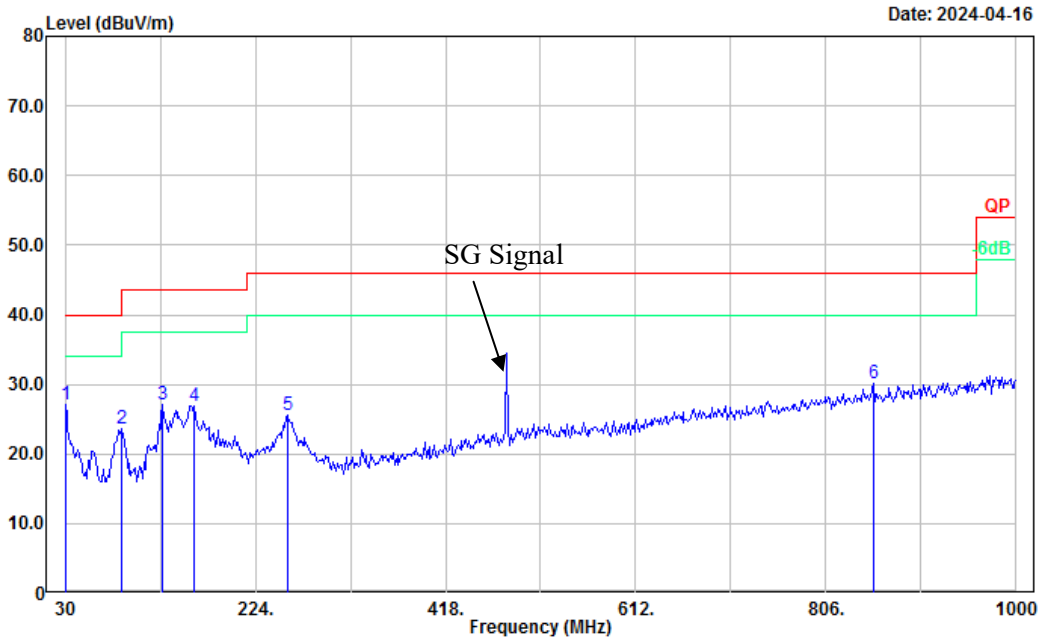
Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	35.17	-2.99	32.18	40.00	7.82	QP
2	41.25	43.52	-10.59	32.93	40.00	7.07	QP
3	58.12	48.08	-16.47	31.61	40.00	8.39	Peak
4	83.42	41.90	-15.97	25.93	40.00	14.07	Peak
5	129.81	36.12	-9.75	26.37	43.50	17.13	Peak
6	231.03	38.48	-10.87	27.61	46.00	18.39	Peak

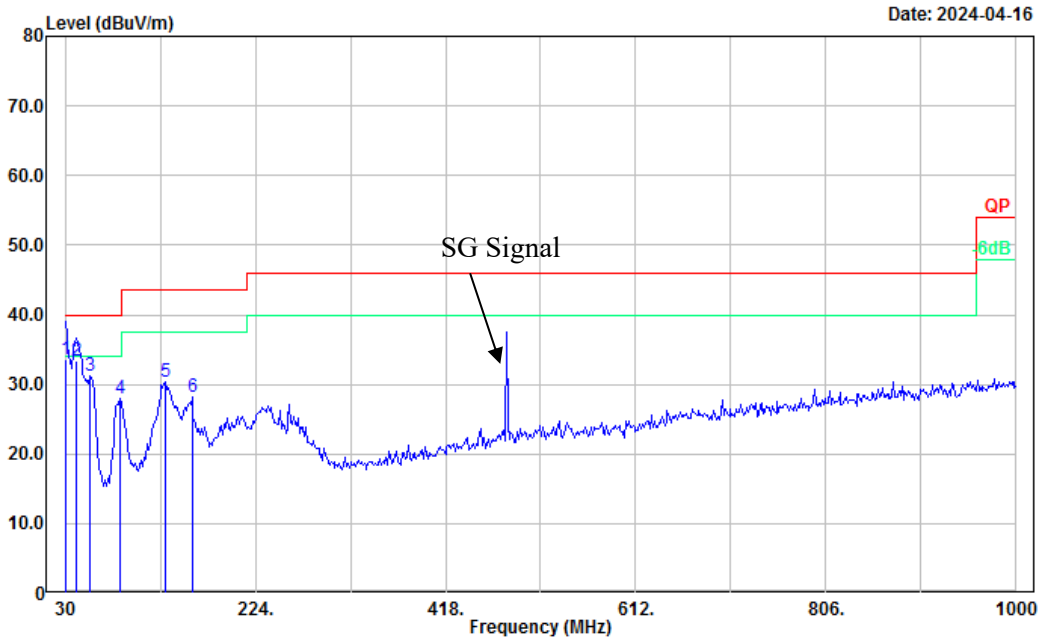
Charged by Charger & Receiving(479.9875MHz):

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	30.17	-2.99	27.18	40.00	12.82	Peak
2	87.64	39.47	-15.94	23.53	40.00	16.47	Peak
3	129.81	36.80	-9.75	27.05	43.50	16.45	Peak
4	162.14	38.14	-11.22	26.92	43.50	16.58	Peak
5	256.33	36.39	-10.72	25.67	46.00	20.33	Peak
6	855.20	27.65	2.41	30.06	46.00	15.94	Peak

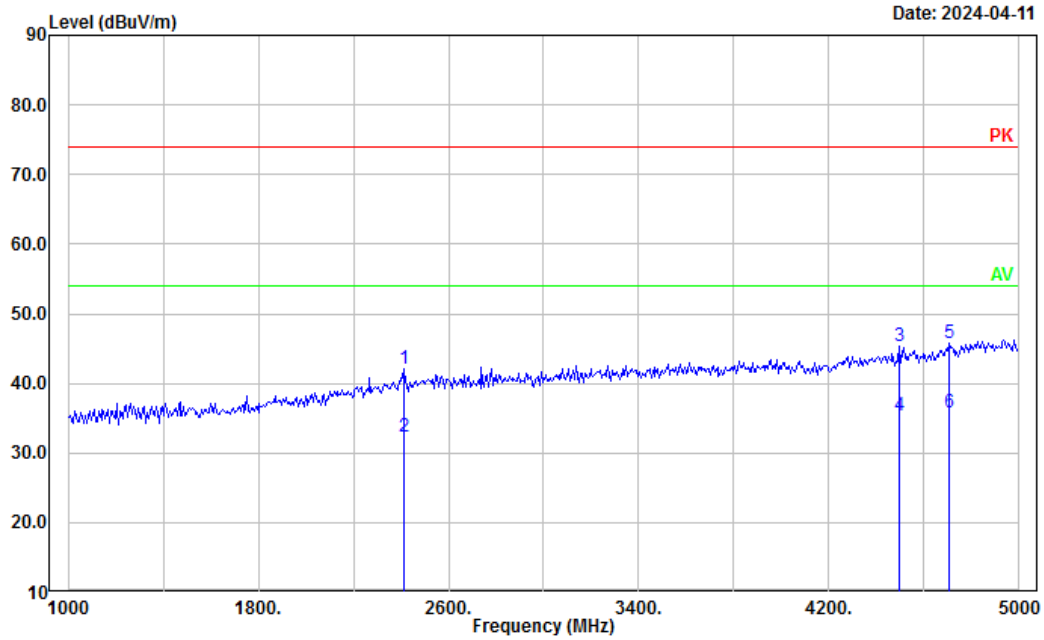
Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Alan Xie



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.00	36.68	-2.99	33.69	40.00	6.31	QP
2	41.25	43.96	-10.59	33.37	40.00	6.63	QP
3	55.30	47.36	-16.24	31.12	40.00	8.88	Peak
4	86.23	43.97	-15.90	28.07	40.00	11.93	Peak
5	132.62	40.16	-9.83	30.33	43.50	13.17	Peak
6	159.33	39.15	-11.03	28.12	43.50	15.38	Peak

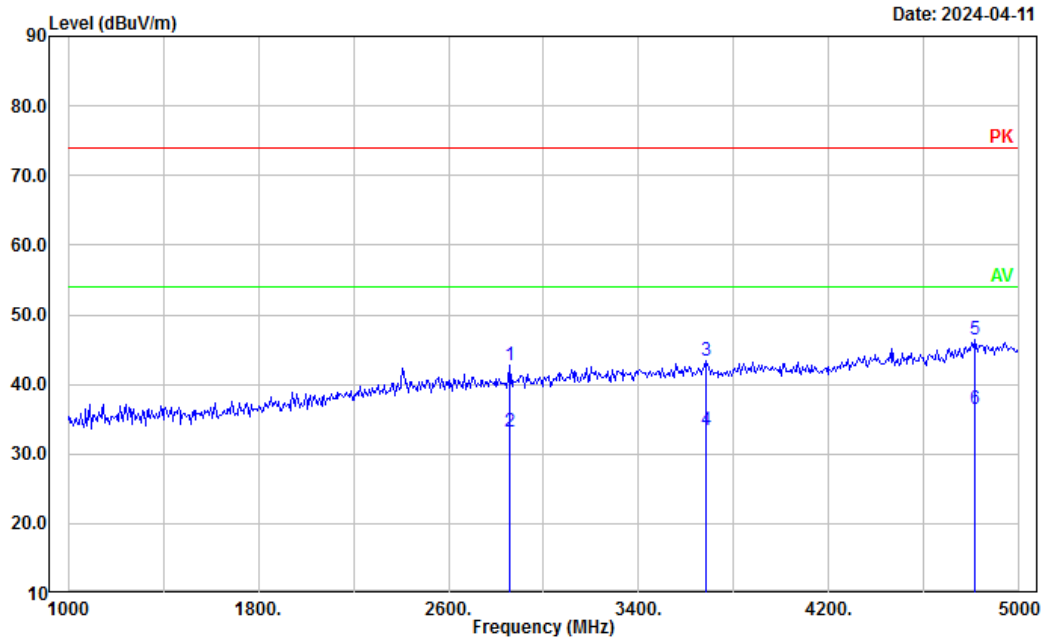
2) 1GHz-5GHz:
Charged by Charger & Scanning:

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2414.49	38.47	3.72	42.19	74.00	31.81	Peak
2	2414.49	28.59	3.72	32.31	54.00	21.69	Average
3	4495.65	36.48	8.93	45.41	74.00	28.59	Peak
4	4495.65	26.48	8.93	35.41	54.00	18.59	Average
5	4704.35	35.92	9.90	45.82	74.00	28.18	Peak
6	4704.35	25.91	9.90	35.81	54.00	18.19	Average

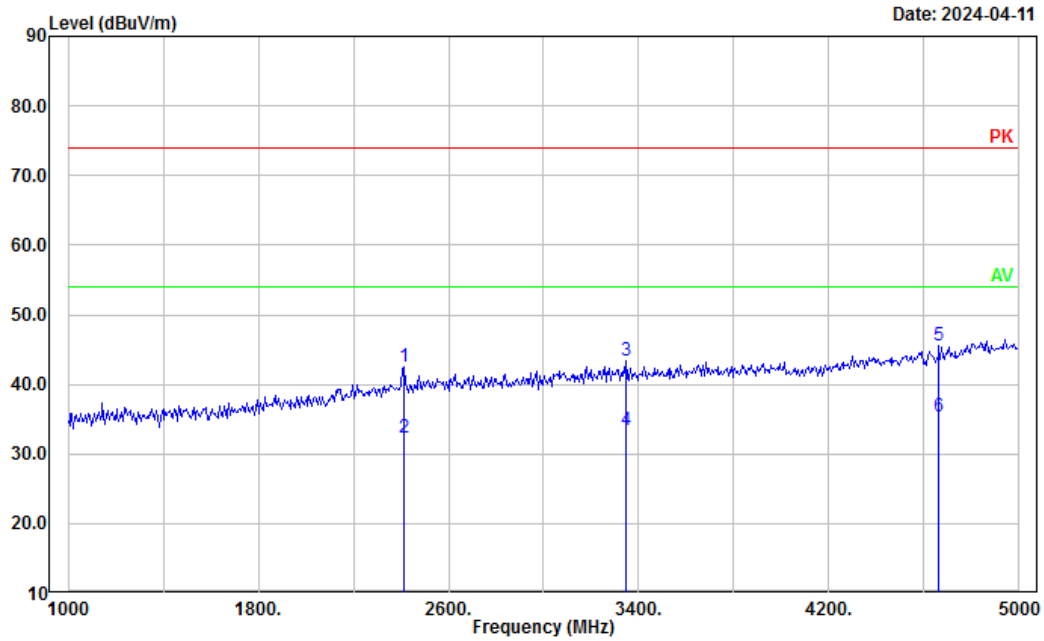
Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2855.07	38.08	4.70	42.78	74.00	31.22	Peak
2	2855.07	28.51	4.70	33.21	54.00	20.79	Average
3	3684.06	36.69	6.63	43.32	74.00	30.68	Peak
4	3684.06	26.76	6.63	33.39	54.00	20.61	Average
5	4814.49	35.92	10.58	46.50	74.00	27.50	Peak
6	4814.49	25.90	10.58	36.48	54.00	17.52	Average

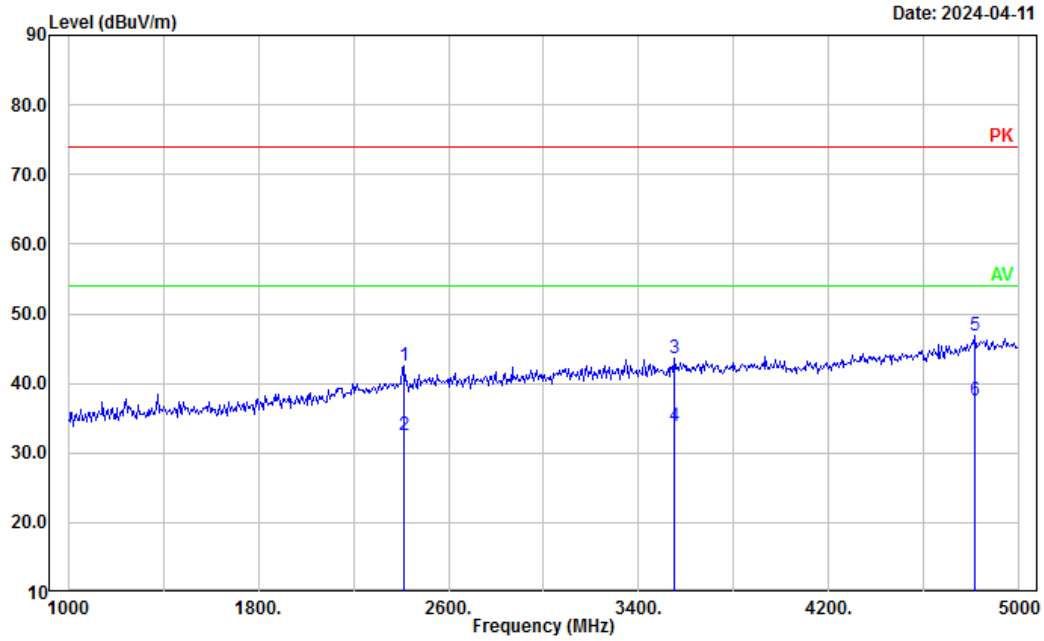
Charged by USB & Scanning:

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2414.49	38.77	3.72	42.49	74.00	31.51	Peak
2	2414.49	28.59	3.72	32.31	54.00	21.69	Average
3	3347.83	37.64	5.76	43.40	74.00	30.60	Peak
4	3347.83	27.61	5.76	33.37	54.00	20.63	Average
5	4663.77	35.96	9.57	45.53	74.00	28.47	Peak
6	4663.77	25.86	9.57	35.43	54.00	18.57	Average

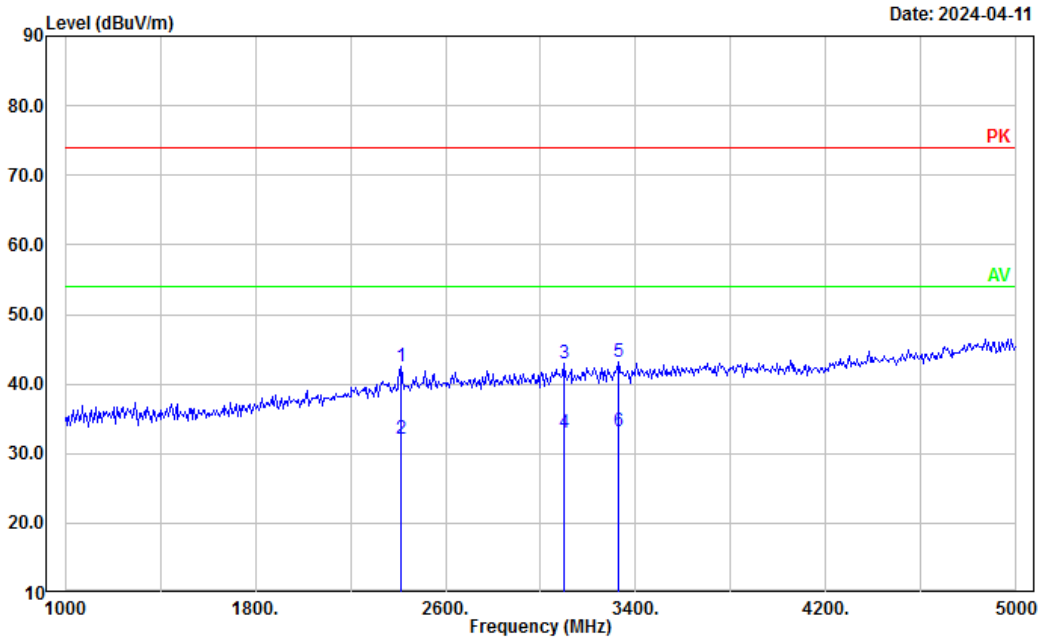
Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2414.49	38.77	3.72	42.49	74.00	31.51	Peak
2	2414.49	28.73	3.72	32.45	54.00	21.55	Average
3	3550.73	37.14	6.37	43.51	74.00	30.49	Peak
4	3550.73	27.45	6.37	33.82	54.00	20.18	Average
5	4814.49	36.34	10.58	46.92	74.00	27.08	Peak
6	4814.49	26.85	10.58	37.43	54.00	16.57	Average

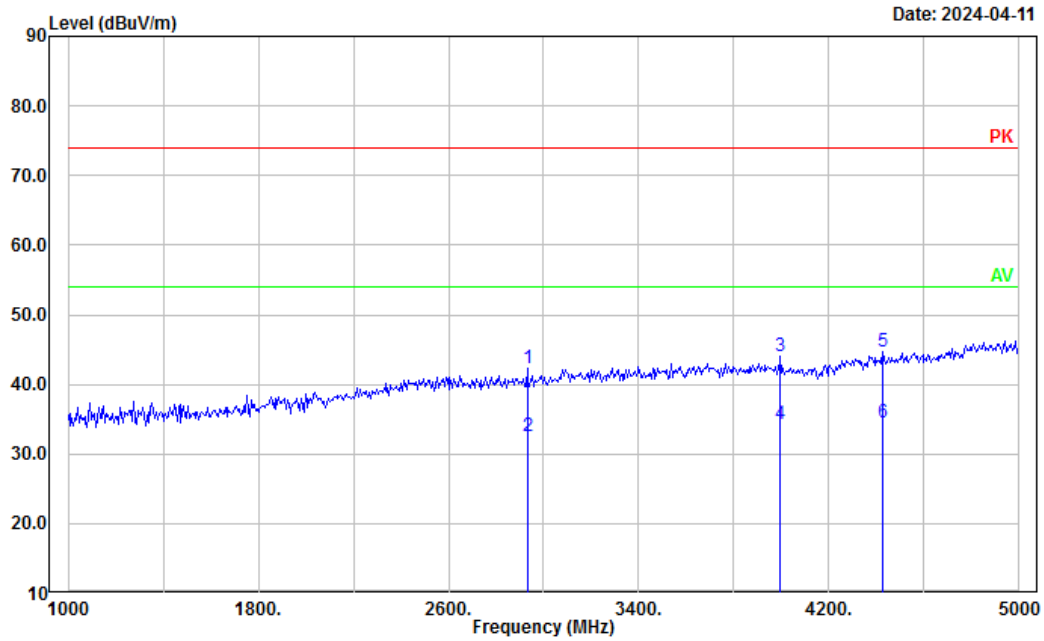
Charged by Charger & Receiving(400.0125MHz was the worst):

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Horizontal Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2414.49	38.76	3.72	42.48	74.00	31.52	Peak
2	2414.49	28.45	3.72	32.17	54.00	21.83	Average
3	3098.55	37.78	5.15	42.93	74.00	31.07	Peak
4	3098.55	27.85	5.15	33.00	54.00	21.00	Average
5	3324.64	37.40	5.74	43.14	74.00	30.86	Peak
6	3324.64	27.45	5.74	33.19	54.00	20.81	Average

Project No.: XMTN1240320-14282E-RF Serial No.: 2IZE-2
Polarization: Vertical Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	2930.44	37.58	4.83	42.41	74.00	31.59	Peak
2	2930.44	27.62	4.83	32.45	54.00	21.55	Average
3	3997.10	36.46	7.55	44.01	74.00	29.99	Peak
4	3997.10	26.74	7.55	34.29	54.00	19.71	Average
5	4426.09	35.86	8.75	44.61	74.00	29.39	Peak
6	4426.09	25.85	8.75	34.60	54.00	19.40	Average

4.3 Scanning Receivers and Frequency Converters Used with Scanning Receivers

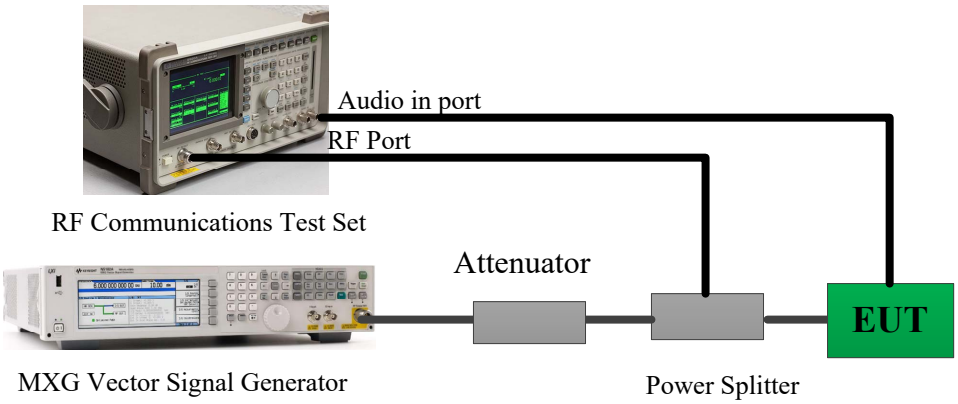
4.3.1 Applicable Standard

FCC §15.121(b).

(b) Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

4.3.2 Test Procedure

1. Connected the EUT as the below block diagram;



2. Apply a signal to the EUT antenna port at lowest, middle, highest channel frequencies of the operating band;
3. Adjust the audio output level of the EUT to it's rated value with the distortion less than 10%;
4. Adjust the 8920 output power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB; These output level of the 8920 at each channel frequency is the sensitivity of the EUT;
5. Select the lowest or worst case sensitivity level for all of the bands as the reference sensitivity;
6. Adjust the Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5 and its frequency to the frequency point in the Cellular Band;
7. Set the EUT squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level;
8. Set the EUT in a scanning mode and allow it to scan through it's complete receiving range;
9. If the EUT un-squelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38 dB;
10. Repeat above procedure at the frequencies 824, 836, 849 MHz for the mobile band, and 869, 881.5 and 894 MHz for the Cellular Base Band.

4.3.3 Test Data and Result

Serial Number:	2IZE-2	Test Date:	2024/5/21
Test Site:	RF	Test Mode:	Scanning
Tester:	Stu Song	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.4	Relative Humidity: (%)	69	ATM Pressure: (kPa)	100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	2023/9/1	2024/8/31
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010013	2023/9/1	2024/8/31
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005011	2023/9/1	2024/8/31
HP	RF Communications Test Set	8920A	3438A05201	2023/10/18	2024/10/17
Agilent	MXG Vector Signal Generator	N5182B	MY51350142	2023/9/1	2024/8/31
Weinschel	Coaxial Power Splitters & Combiner	1515	SERNORH458	2023/9/1	2024/8/31

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Scanning Frequency Range (MHz)	Test Frequency (MHz)	Measurement Result (dB)	Limit (dB)
400-480	824, 836, 849, 869,881.5, 894	41	>38

APPENDIX A - EUT PHOTOGRAPHS

Please refer to the attachment XMTN1240320-14282E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and XMTN1240320-14282E-RF-INP EUT INTERNAL PHOTOGRAPHS

APPENDIX B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment XMTN1240320-14282E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******