

## TEST REPORT

**Applicant:** INGENICO

**Address:** 9 Avenue de la gare - Rovaltain TGV, BP25156, Valence Cedex 9,  
26958, France

**Product Name:** Smart POS Terminal

**FCC ID:** XKB-DX4LOBCLWB

**Standard(s):** 47 CFR Part 15, Subpart C(15.225)  
ANSI C63.10-2013

**Report Number:** 2402Y99420E-RF-00CA1

**Report Date:** 2024/12/14

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402Y99420E-RF-00CA1	Original Report	2024/12/14

## 1. GENERAL INFORMATION

### 1.1 General Description of Equipment under Test

<b>EUT Name:</b>	Smart POS Terminal
<b>EUT Model:</b>	AXIUM DX4000
<b>Operation Frequency:</b>	13.56 MHz
<b>Modulation Type:</b>	ASK
<b>Rated Input Voltage:</b>	5Vdc from adapter or 7.2/7.4Vdc from battery
<b>Serial Number:</b>	For AC Line Conducted Emissions and Radiated Spurious Emissions test: 2TOQ-1 (Configuration 1#: Screen 2#) 2TOQ-2 (Configuration 2#: Screen 1#) For RF Conducted test: 2TOQ-1 (Configuration 1#: Screen 2#)
<b>EUT Received Date:</b>	2024/10/16
<b>EUT Received Status:</b>	Good

### 1.2 Accessory Information

#### Adapter Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter 1#	Xiamen Keli Electronics Co., Ltd	SW-0983	Input: 100-240Vac 50/60Hz0.5A Output: 5.0Vdc 2.0A
Adapter 2#	Jiangxi Jian Aohai Technology Co., Ltd	A319-050200U-US2	Input: 100-240Vac 50/60Hz0.5A Output: 5.0Vdc 2.0A
Adapter 3#	Xiamen Keli Electronics Co., Ltd	KL-WD050200U	Input: 100-240Vac 50/60Hz0.5A Output: 5.0Vdc 2.0A
Adapter 4# (New)	SHENZHEN KEYU POWER SUPPLY TECHNOLOGY CO.,LTD	KA1602-0502000DEU	Input: 100-240Vac 50/60Hz0.35A Output: 5.0Vdc 2.0A

#### Battery Information:

No.	Manufacturer	Model	Rated Voltage/Capacity
Battery 1#	XinyuGanfeng Electronics Co.,Ltd.	LD1865N	DC 7.4V Typical Capacity:2200mAh/16.28Wh
Battery 2# (Updated)	XinyuGanfeng Electronics Co.,Ltd.	LD18650P	7.2Vdc, Typical Capacity:3350mAh, 24.12Wh
Battery 3# (Updated)	SCUD (Fujian) Electronics CO.,LTD.	LD18650K-1	7.2Vdc, Typical Capacity:3350mAh, 24.12Wh
Battery 4# (New)	Dongguan Veken Battery Co.,Ltd. (Battery cell supplier: BAK)	LD18650N	7.2Vdc, Typical Capacity:2200mAh, 15.84Wh
Battery 5# (New)	Dongguan Veken Battery Co.,Ltd. (Battery cell supplier: EVE)	LD18650N	7.2Vdc, Typical Capacity:2200mAh, 15.84Wh

#### Screen Information:

No.	Manufacturer	Model
Screen 1#	GuangDonghongbosheng Optoelectronic Technology Co.,Ltd	MDT0500M
Screen 2#(New)	Shenzhen Great Prospect Optoelectronics Co.,Ltd.	MDT0500N

**1.3 Antenna Information Detail ▲**

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Suzhou Splendid Technology Co.,ltd.	NEAR FIELD ANTENNA	50	13.56MHz	Unknown
<b>The design of compliance with §15.203:</b>				
<input checked="" type="checkbox"/> Unit uses a permanently attached antenna.				
<input type="checkbox"/> Unit uses a unique coupling to the intentional radiator.				
<input type="checkbox"/> Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.				

**1.4 Equipment Modifications**

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

## 2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207 (a)	AC Line Conducted Emissions	Compliant
§15.225 §15.209 §15.205	Radiated Spurious Emissions	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215(c)	20 dB Bandwidth	Compliant
FCC §15.203	Antenna Requirement	Compliant

Note 1: This is Class II permissive change application based on the original device, model: AXIUM DX4000, FCC ID: XKB-DX4LOBCLWB, please refer to report No.: CR221263969-00C<sup>▲</sup>, issued by China Certification ICT Co., Ltd (Dongguan) on 2023/3/28, which was provided by the manufacturer<sup>▲</sup>. Differences between the previous device and the current one are stated and guaranteed by the manufacturer, as following:

1. Add new Veken-2200mAh battery pack (2 different cells).
2. PCB upgrading with new Charge IC.
3. Add a new configuration with front camera.
4. Add a new Display.
5. WWAN Main Antenna changed.
6. Remove the Flypower adapter and add KEYU Multi-plug adapter.
7. Updated the label of current battery packs (LD18650P& LD18650k-1& LD18650N).
8. Changed battery protection circuit of LD18650k-1 and LD18650P.
9. Add the appearance color of the EUT.
10. Capacitors of NFC circuit adjusted.

The Bay Area Compliance Laboratories Corp. (Dongguan) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

### 3. DESCRIPTION OF TEST CONFIGURATION

#### 3.1 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The following summary table is showing all test modes to demonstrate in compliance with the standard:

Test Items	Test Modes
AC Line Conducted Emissions	M1:Transmitting(Configuration 1# + Adapter 4# + Battery 2# ) M2:Transmitting(Configuration 1# + Adapter 4# + Battery 3# ) M3:Transmitting(Configuration 1# + Adapter 4# + Battery 4# ) M4:Transmitting(Configuration 1# + Adapter 4# + Battery 5# ) M5:Transmitting(Configuration 2# + Adapter 4# + Worst Battery Above)
Radiated Spurious Emission	M1:Transmitting(Configuration 1# + Adapter 4# + Battery 2# ) M2:Transmitting(Configuration 1# + Adapter 4# + Battery 3# ) M3:Transmitting(Configuration 1# + Adapter 4# + Battery 4# ) M4:Transmitting(Configuration 1# + Adapter 4# + Battery 5# ) M5:Transmitting(Configuration 2# + Adapter 4# + Worst Battery Above)

#### 3.2 EUT Exercise Software

Software: AuthenticateTest was used in test for data transmission.

#### 3.3 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
ingenico	NFC Card	EINOLDA	EMZBNC21103001

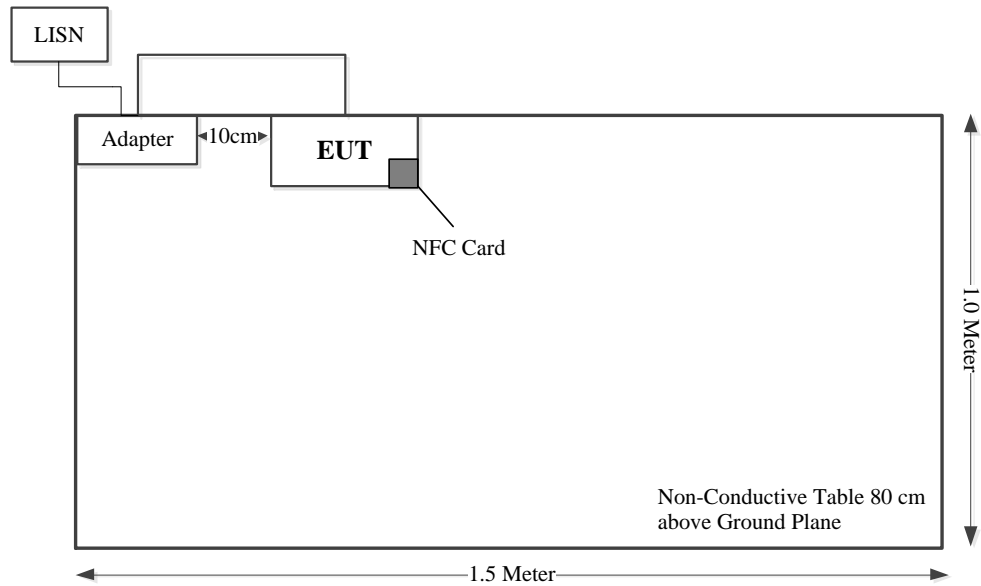
#### 3.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter	EUT

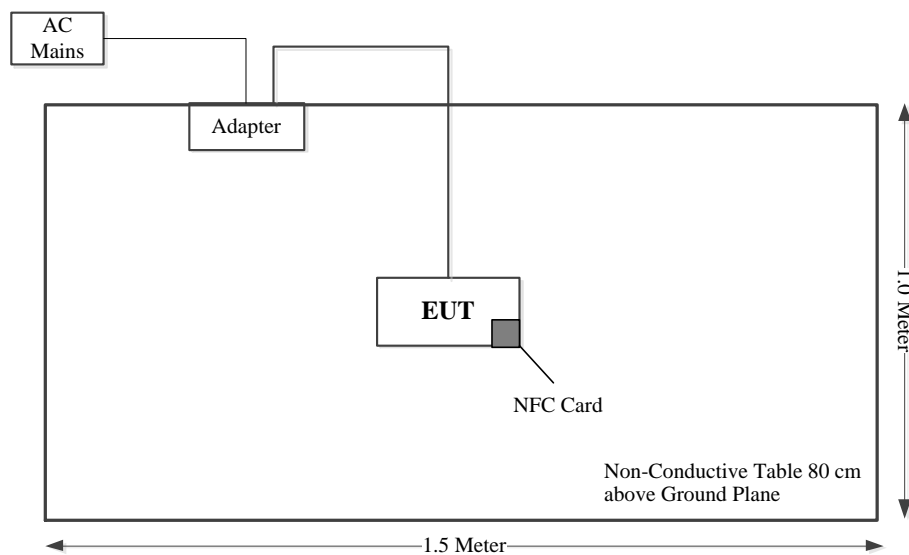


### 3.5 Block Diagram of Test Setup

AC Line Conducted Emissions:  
M1~M5:



Radiated Spurious Emissions:  
M1~M5:



### 3.6 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.

### 3.7 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
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 0.61\text{ dB}$
Power Spectral Density, conducted	$\pm 0.61\text{ dB}$
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	$\pm 2.47\text{ dB}$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
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 §15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator 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  $\mu$ H/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 boundary between the frequency ranges.

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

\*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

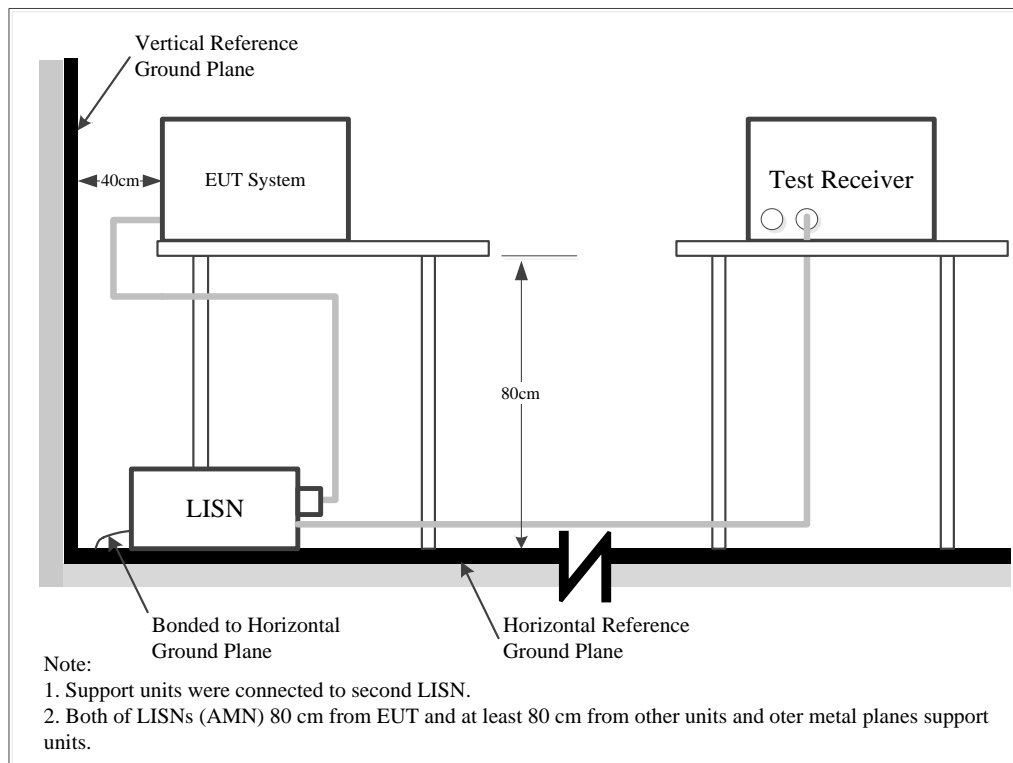
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

### 4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

### 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

During the conducted emission test, the adapter was connected to the outlet of the LISN.

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.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

#### 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**

Serial Number:	2TOQ-1,2TOQ-2	Test Date:	2024/10/23
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yolo Fan	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	27.2	Relative Humidity: (%)	47	ATM Pressure: (kPa)	101.5
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**Test Equipment List and Details:**

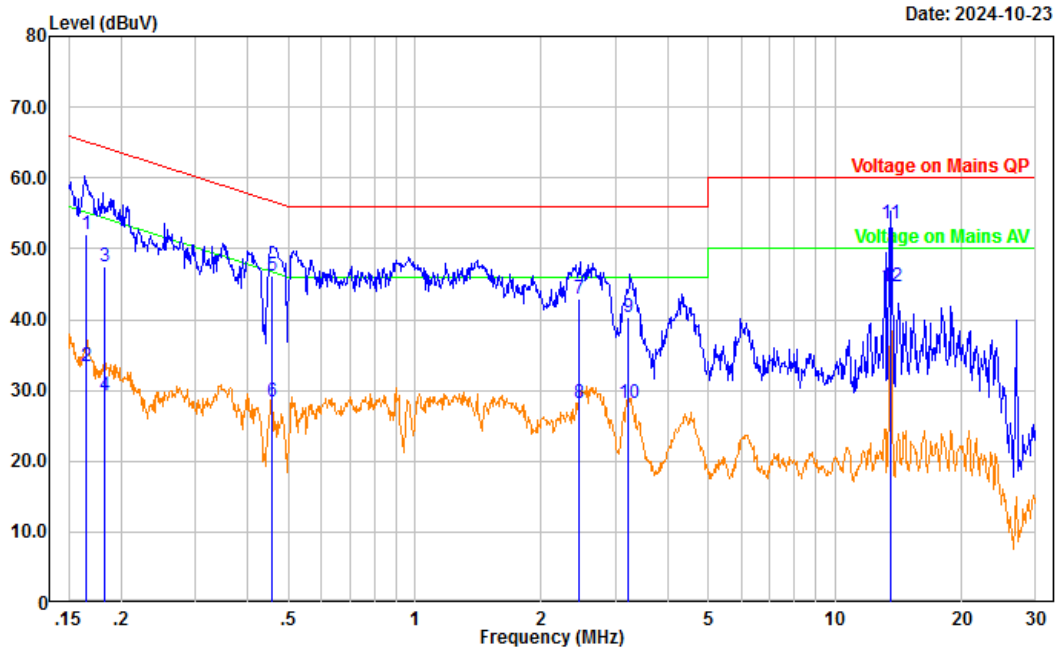
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

*\* 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).*

**M1:**

Project No.: 2402Y99420E-RF-A1  
Port: Line  
Test Mode: Transmitting 1  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

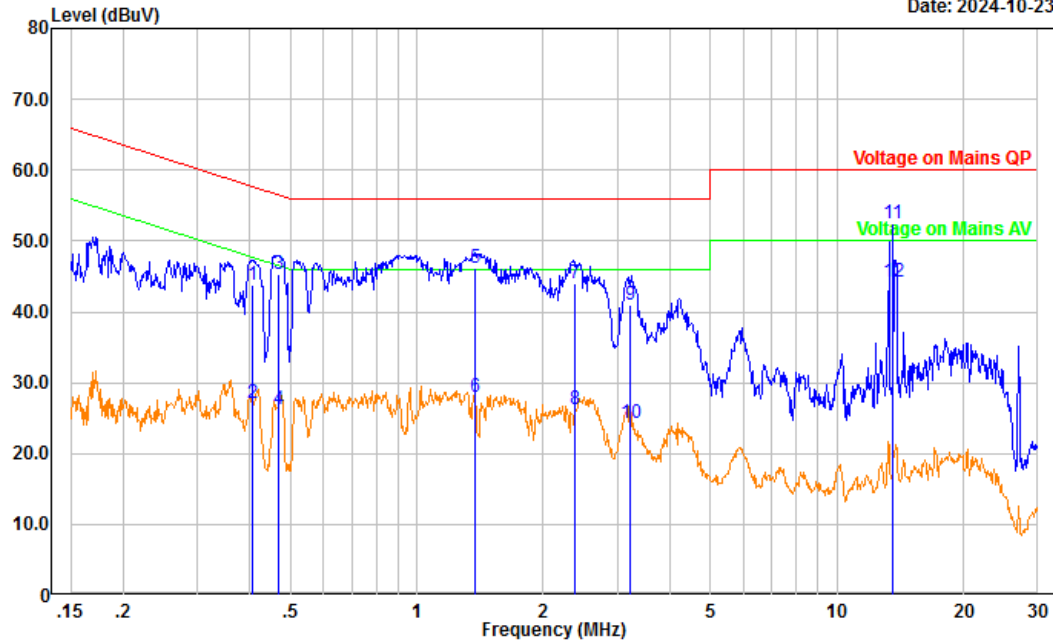


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.165	41.25	10.78	52.03	65.19	13.16	QP
2	0.165	22.60	10.78	33.38	55.19	21.81	Average
3	0.183	36.76	10.82	47.58	64.33	16.75	QP
4	0.183	18.52	10.82	29.34	54.33	24.99	Average
5	0.458	35.36	10.84	46.20	56.74	10.54	QP
6	0.458	17.51	10.84	28.35	46.74	18.39	Average
7	2.452	32.09	10.81	42.90	56.00	13.10	QP
8	2.452	17.47	10.81	28.28	46.00	17.72	Average
9	3.229	29.64	10.78	40.42	56.00	15.58	QP
10	3.229	17.45	10.78	28.23	46.00	17.77	Average
11	13.561	42.69	10.83	53.52	60.00	6.48	QP
12	13.561	33.94	10.83	44.77	50.00	5.23	Average

Project No.: 2402Y99420E-RF-A1  
Port: neutral  
Test Mode: Transmitting 1  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

Date: 2024-10-23



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.407	33.12	10.77	43.89	57.71	13.82	QP
2	0.407	16.23	10.77	27.00	47.71	20.71	Average
3	0.467	34.52	10.75	45.27	56.56	11.29	QP
4	0.467	15.54	10.75	26.29	46.56	20.27	Average
5	1.375	35.20	10.88	46.08	56.00	9.92	QP
6	1.375	17.15	10.88	28.03	46.00	17.97	Average
7	2.382	33.03	10.91	43.94	56.00	12.06	QP
8	2.382	15.32	10.91	26.23	46.00	19.77	Average
9	3.221	30.11	10.88	40.99	56.00	15.01	QP
10	3.221	13.35	10.88	24.23	46.00	21.77	Average
11	13.562	41.69	10.86	52.55	60.00	7.45	QP
12	13.562	33.33	10.86	44.19	50.00	5.81	Average

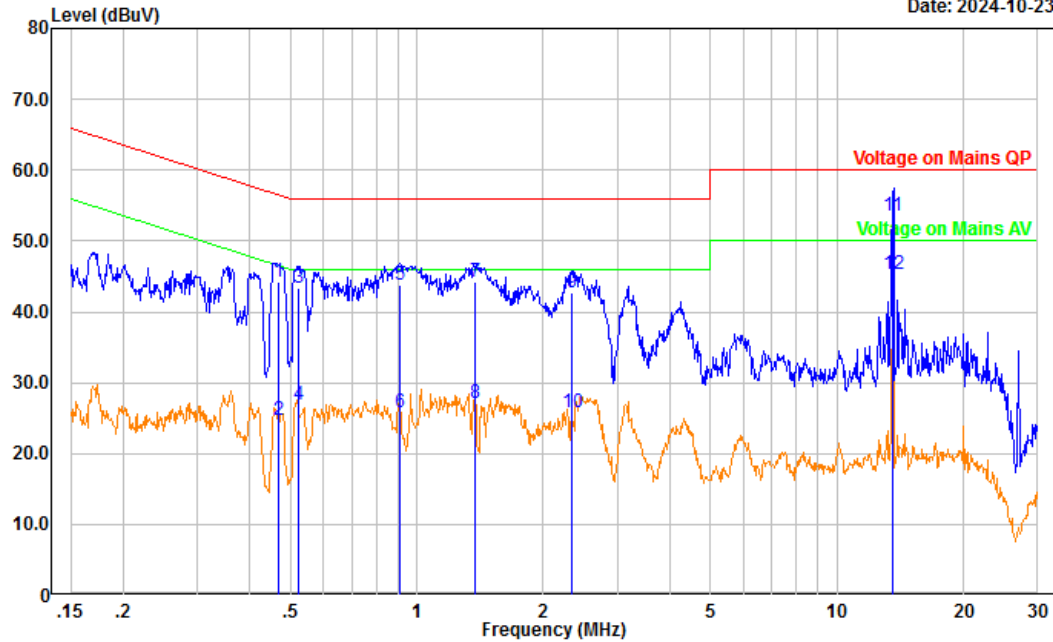


M2:

Project No.: 2402Y99420E-RF-A1  
Port: Line  
Test Mode: Transmitting 2  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

Date: 2024-10-23

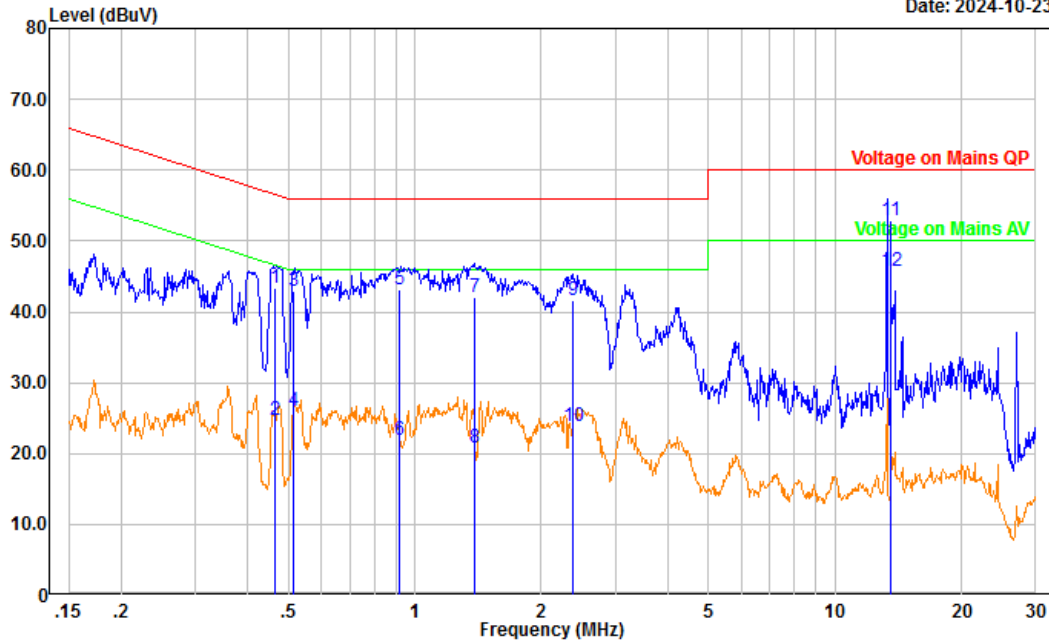


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.469	33.29	10.84	44.13	56.54	12.41	QP
2	0.469	13.77	10.84	24.61	46.54	21.93	Average
3	0.521	32.46	10.84	43.30	56.00	12.70	QP
4	0.521	16.00	10.84	26.84	46.00	19.16	Average
5	0.914	33.03	10.86	43.89	56.00	12.11	QP
6	0.914	14.95	10.86	25.81	46.00	20.19	Average
7	1.380	33.45	10.84	44.29	56.00	11.71	QP
8	1.380	16.29	10.84	27.13	46.00	18.87	Average
9	2.345	31.91	10.81	42.72	56.00	13.28	QP
10	2.345	15.09	10.81	25.90	46.00	20.10	Average
11	13.561	42.77	10.83	53.60	60.00	6.40	QP
12	13.561	34.56	10.83	45.39	50.00	4.61	Average

Project No.: 2402Y99420E-RF-A1  
Port: neutral  
Test Mode: Transmitting 2  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

Date: 2024-10-23



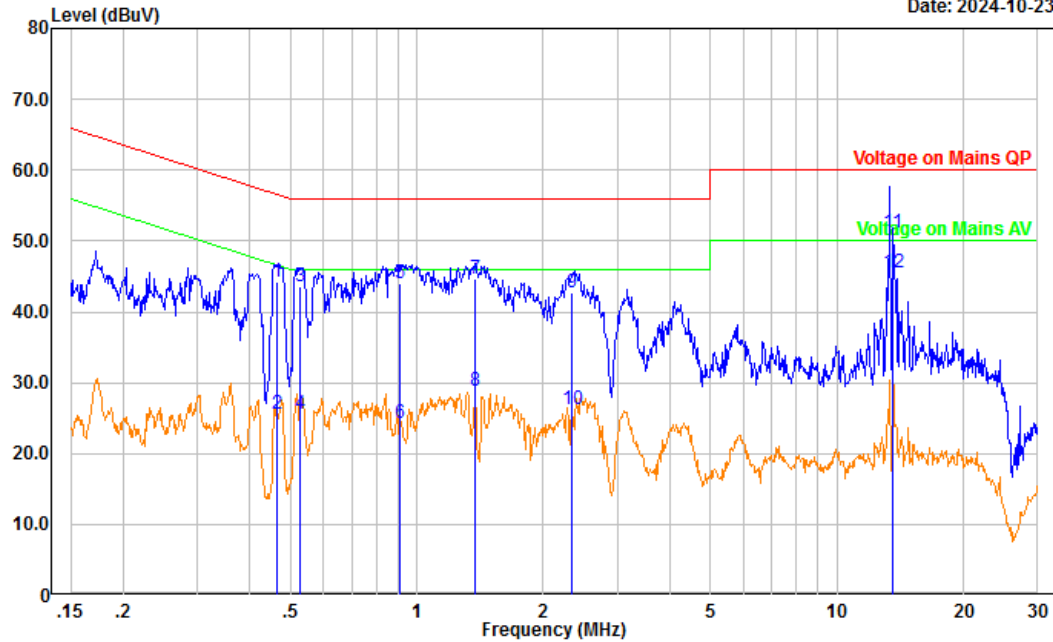
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.466	32.67	10.75	43.42	56.58	13.16	QP
2	0.466	13.89	10.75	24.64	46.58	21.94	Average
3	0.516	32.18	10.74	42.92	56.00	13.08	QP
4	0.516	15.33	10.74	26.07	46.00	19.93	Average
5	0.921	32.31	10.83	43.14	56.00	12.86	QP
6	0.921	10.97	10.83	21.80	46.00	24.20	Average
7	1.393	31.24	10.88	42.12	56.00	13.88	QP
8	1.393	10.02	10.88	20.90	46.00	25.10	Average
9	2.385	30.80	10.91	41.71	56.00	14.29	QP
10	2.385	12.96	10.91	23.87	46.00	22.13	Average
11	13.559	42.01	10.86	52.87	60.00	7.13	QP
12	13.559	34.87	10.86	45.73	50.00	4.27	Average

M3:

Project No.: 2402Y99420E-RF-A1  
Port: Line  
Test Mode: Transmitting 3  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

Date: 2024-10-23

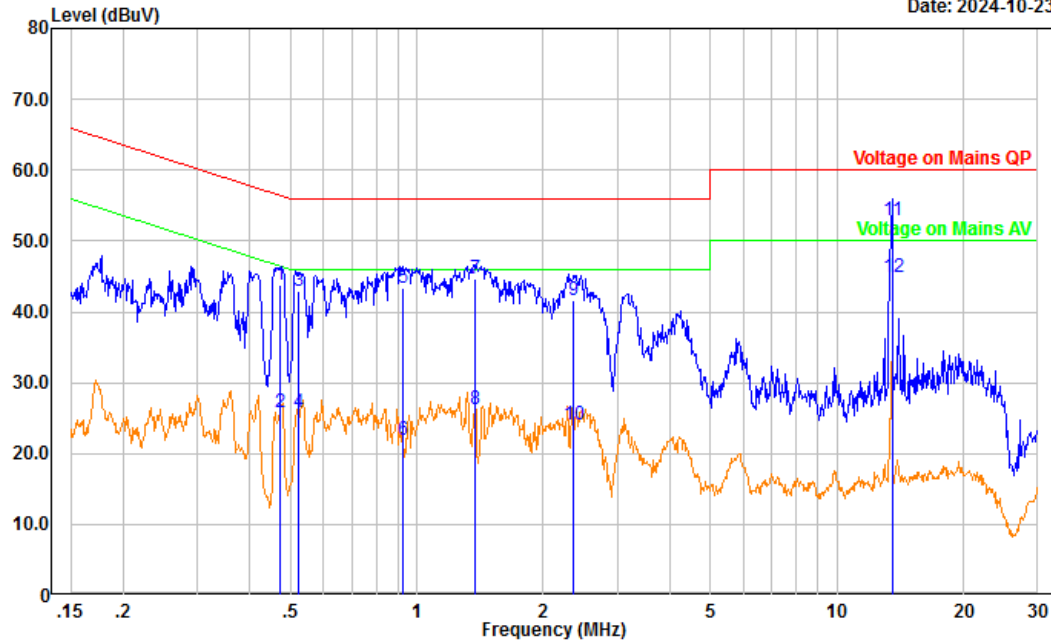


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.464	33.44	10.84	44.28	56.62	12.34	QP
2	0.464	14.79	10.84	25.63	46.62	20.99	Average
3	0.528	32.81	10.83	43.64	56.00	12.36	QP
4	0.528	14.82	10.83	25.65	46.00	20.35	Average
5	0.912	33.24	10.86	44.10	56.00	11.90	QP
6	0.912	13.33	10.86	24.19	46.00	21.81	Average
7	1.376	33.90	10.84	44.74	56.00	11.26	QP
8	1.376	18.09	10.84	28.93	46.00	17.07	Average
9	2.346	31.84	10.81	42.65	56.00	13.35	QP
10	2.346	15.47	10.81	26.28	46.00	19.72	Average
11	13.563	40.41	10.83	51.24	60.00	8.76	QP
12	13.563	34.67	10.83	45.50	50.00	4.50	Average

Project No.: 2402Y99420E-RF-A1  
Port: neutral  
Test Mode: Transmitting 3  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

Date: 2024-10-23



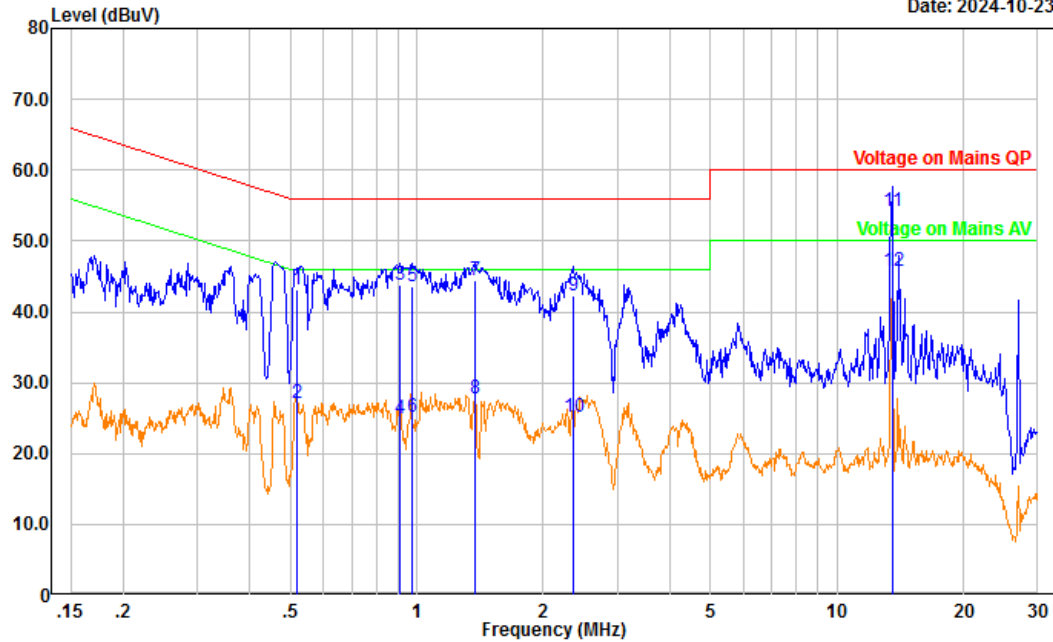
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.473	33.07	10.75	43.82	56.46	12.64	QP
2	0.473	15.09	10.75	25.84	46.46	20.62	Average
3	0.521	32.17	10.74	42.91	56.00	13.09	QP
4	0.521	15.01	10.74	25.75	46.00	20.25	Average
5	0.925	32.51	10.84	43.35	56.00	12.65	QP
6	0.925	11.12	10.84	21.96	46.00	24.04	Average
7	1.373	33.83	10.88	44.71	56.00	11.29	QP
8	1.373	15.45	10.88	26.33	46.00	19.67	Average
9	2.351	30.80	10.91	41.71	56.00	14.29	QP
10	2.351	13.18	10.91	24.09	46.00	21.91	Average
11	13.562	42.14	10.86	53.00	60.00	7.00	QP
12	13.562	34.03	10.86	44.89	50.00	5.11	Average

M4:

Project No.: 2402Y99420E-RF-A1  
Port: Line  
Test Mode: Transmitting 4  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

Date: 2024-10-23

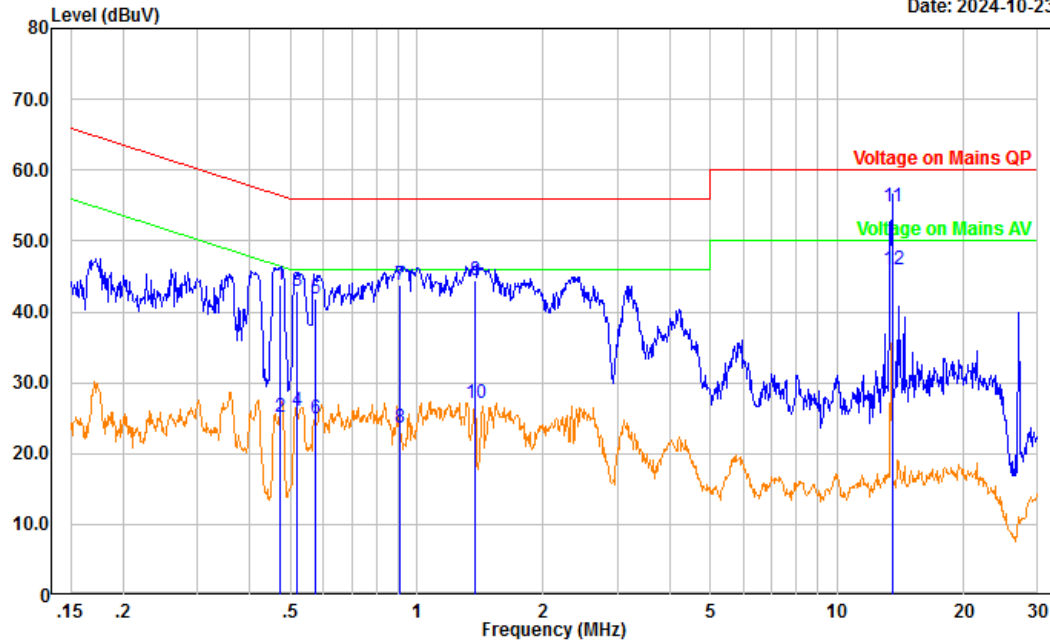


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.520	32.31	10.84	43.15	56.00	12.85	QP
2	0.520	16.27	10.84	27.11	46.00	18.89	Average
3	0.908	32.87	10.86	43.73	56.00	12.27	QP
4	0.908	14.12	10.86	24.98	46.00	21.02	Average
5	0.977	32.72	10.85	43.57	56.00	12.43	QP
6	0.977	14.33	10.85	25.18	46.00	20.82	Average
7	1.371	33.65	10.84	44.49	56.00	11.51	QP
8	1.371	16.85	10.84	27.69	46.00	18.31	Average
9	2.350	31.57	10.81	42.38	56.00	13.62	QP
10	2.350	14.38	10.81	25.19	46.00	20.81	Average
11	13.562	43.36	10.83	54.19	60.00	5.81	QP
12	13.562	35.00	10.83	45.83	50.00	4.17	Average

Project No.: 2402Y99420E-RF-A1  
Port: neutral  
Test Mode: Transmitting 4  
Note:

Serial No.: 2T0Q-1  
Tester: Yolo Fan

Date: 2024-10-23



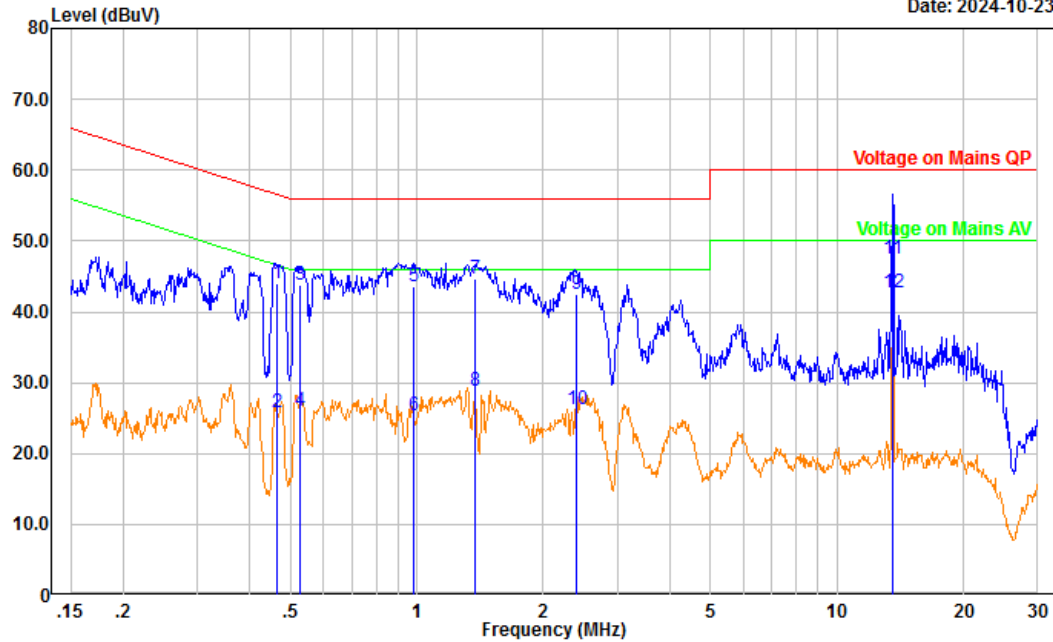
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.471	32.96	10.75	43.71	56.50	12.79	QP
2	0.471	14.33	10.75	25.08	46.50	21.42	Average
3	0.519	32.14	10.74	42.88	56.00	13.12	QP
4	0.519	15.35	10.74	26.09	46.00	19.91	Average
5	0.572	31.08	10.73	41.81	56.00	14.19	QP
6	0.572	14.15	10.73	24.88	46.00	21.12	Average
7	0.912	33.05	10.83	43.88	56.00	12.12	QP
8	0.912	12.72	10.83	23.55	46.00	22.45	Average
9	1.378	33.59	10.88	44.47	56.00	11.53	QP
10	1.378	16.23	10.88	27.11	46.00	18.89	Average
11	13.559	44.01	10.86	54.87	60.00	5.13	QP
12	13.559	35.11	10.86	45.97	50.00	4.03	Average

M5:

Project No.: 2402Y99420E-RF-A1  
Port: Line  
Test Mode: Transmitting 5  
Note: Worst Battery: Battery 5#

Serial No.: 2T0Q-2  
Tester: Yolo Fan

Date: 2024-10-23

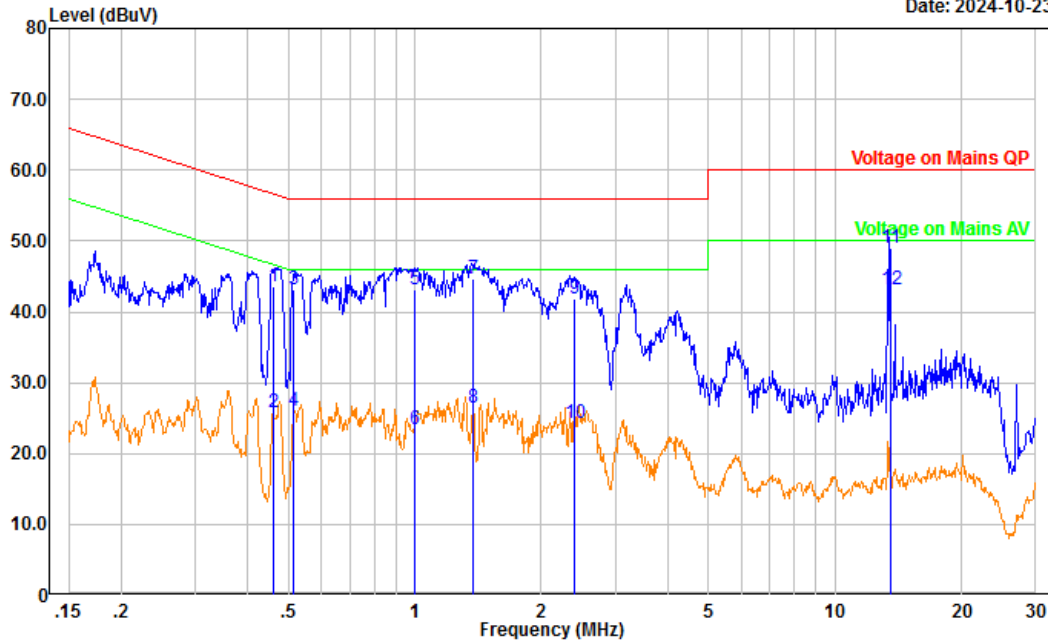


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.464	33.24	10.84	44.08	56.62	12.54	QP
2	0.464	14.89	10.84	25.73	46.62	20.89	Average
3	0.529	32.92	10.83	43.75	56.00	12.25	QP
4	0.529	15.29	10.83	26.12	46.00	19.88	Average
5	0.980	32.73	10.85	43.58	56.00	12.42	QP
6	0.980	14.43	10.85	25.28	46.00	20.72	Average
7	1.379	33.92	10.84	44.76	56.00	11.24	QP
8	1.379	17.92	10.84	28.76	46.00	17.24	Average
9	2.393	31.73	10.81	42.54	56.00	13.46	QP
10	2.393	15.34	10.81	26.15	46.00	19.85	Average
11	13.561	36.71	10.83	47.54	60.00	12.46	QP
12	13.561	31.97	10.83	42.80	50.00	7.20	Average

Project No.: 2402Y99420E-RF-A1  
Port: neutral  
Test Mode: Transmitting 5  
Note: Worst Battery: Battery 5#

Serial No.: 2T0Q-2  
Tester: Yolo Fan

Date: 2024-10-23



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.461	32.79	10.75	43.54	56.68	13.14	QP
2	0.461	14.97	10.75	25.72	46.68	20.96	Average
3	0.515	32.39	10.74	43.13	56.00	12.87	QP
4	0.515	15.19	10.74	25.93	46.00	20.07	Average
5	0.999	32.33	10.85	43.18	56.00	12.82	QP
6	0.999	12.50	10.85	23.35	46.00	22.65	Average
7	1.374	33.79	10.88	44.67	56.00	11.33	QP
8	1.374	15.67	10.88	26.55	46.00	19.45	Average
9	2.393	31.01	10.91	41.92	56.00	14.08	QP
10	2.393	13.47	10.91	24.38	46.00	21.62	Average
11	13.562	38.07	10.86	48.93	60.00	11.07	QP
12	13.562	32.37	10.86	43.23	50.00	6.77	Average



## 4.2 Radiated Spurious Emissions

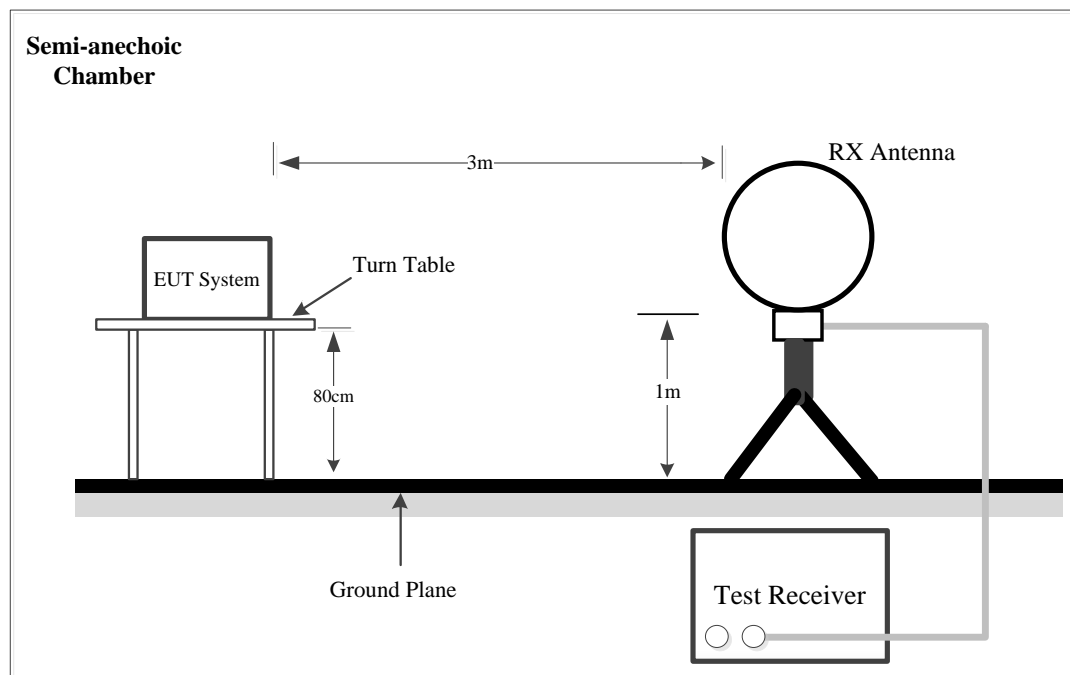
### 4.2.1 Applicable Standard

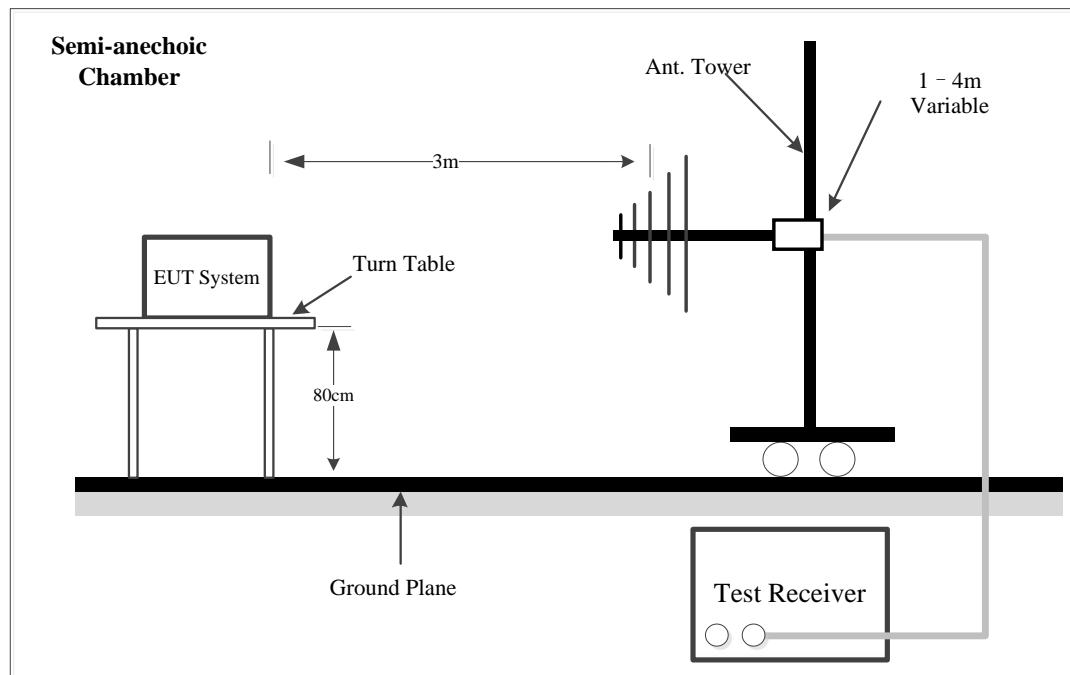
As per FCC Part 15.225

- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

### 4.2.2 EUT Setup

9kHz~30MHz:



**30MHz~1GHz:**

The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

#### 4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 1 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
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK
	/	/	120 kHz	QP

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP measurement

#### 4.2.4 Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average detector.

All emissions under the average limit and under the noise floor have not recorded in the report.

#### 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**

Serial Number:	2TOQ-1, 2TOQ-2	Test Date:	2024/10/25~2024/12/9
Test Site:	Chamber 10m	Test Mode:	Transmitting
Tester:	Zoo Zou	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	22.5~25.8	Relative Humidity: (%)	47~54	ATM Pressure: (kPa)	100.9~101.5

**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
9kHz~1000MHz					
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25
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).

**Test Data:**

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

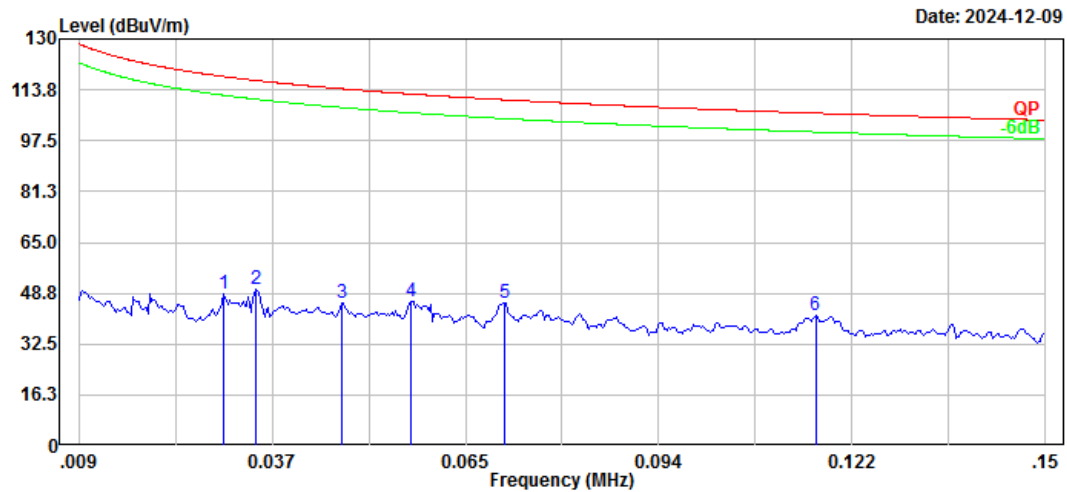
## 1) 9kHz~30MHz

M1:

Parallel

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M1

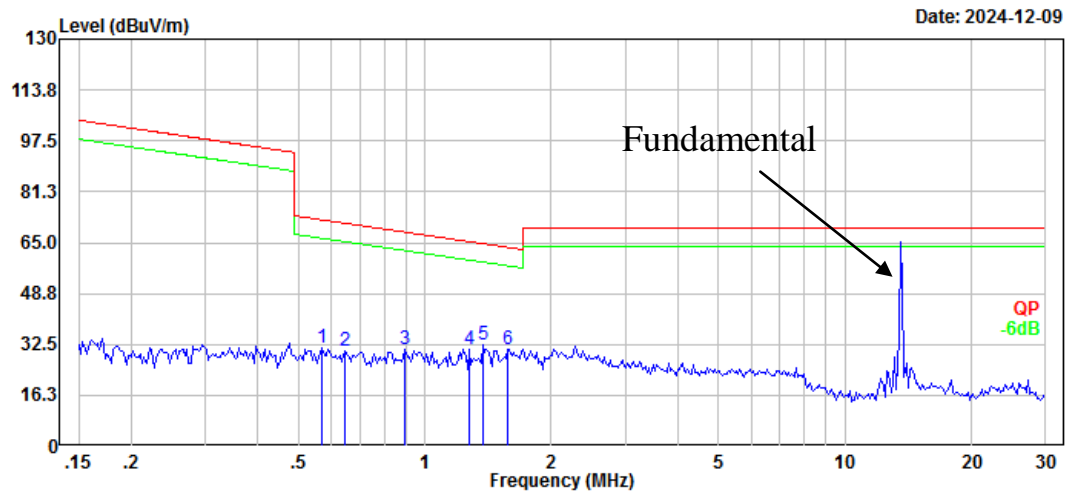
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.030	1.25	47.52	48.77	118.02	69.25	Peak
2	0.035	3.36	46.67	50.03	116.74	66.71	Peak
3	0.047	1.11	44.50	45.61	114.10	68.49	Peak
4	0.058	3.30	42.76	46.06	112.41	66.35	Peak
5	0.071	5.45	40.41	45.86	110.57	64.71	Peak
6	0.116	6.97	34.49	41.46	106.28	64.82	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M1

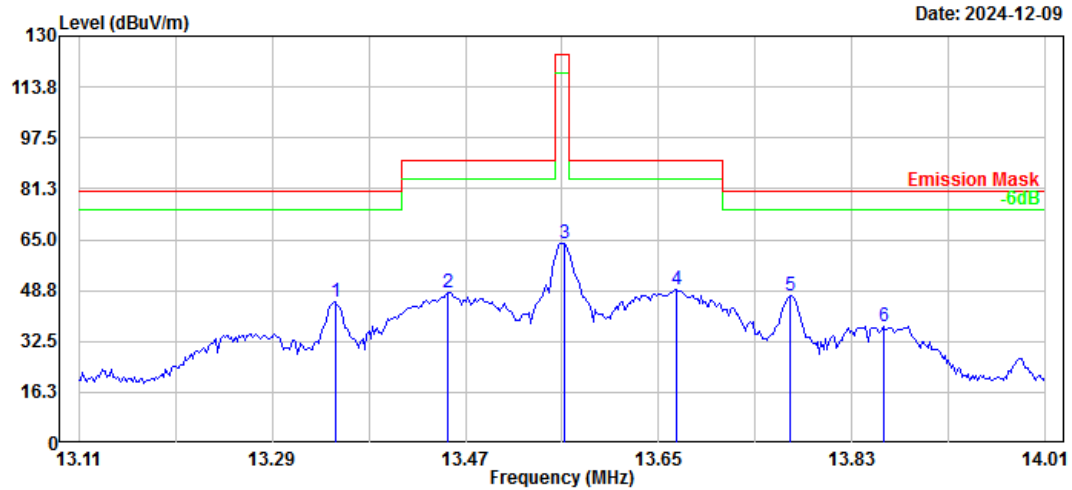
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.570	8.39	22.78	31.17	72.46	41.29	Peak
2	0.647	8.51	22.00	30.51	71.33	40.82	Peak
3	0.899	12.34	18.58	30.92	68.42	37.50	Peak
4	1.276	15.80	15.34	31.14	65.31	34.17	Peak
5	1.374	17.71	14.90	32.61	64.66	32.05	Peak
6	1.577	17.05	13.99	31.04	63.43	32.39	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M1

Serial No.: 2T0Q-1  
Tester: Zoo Zou

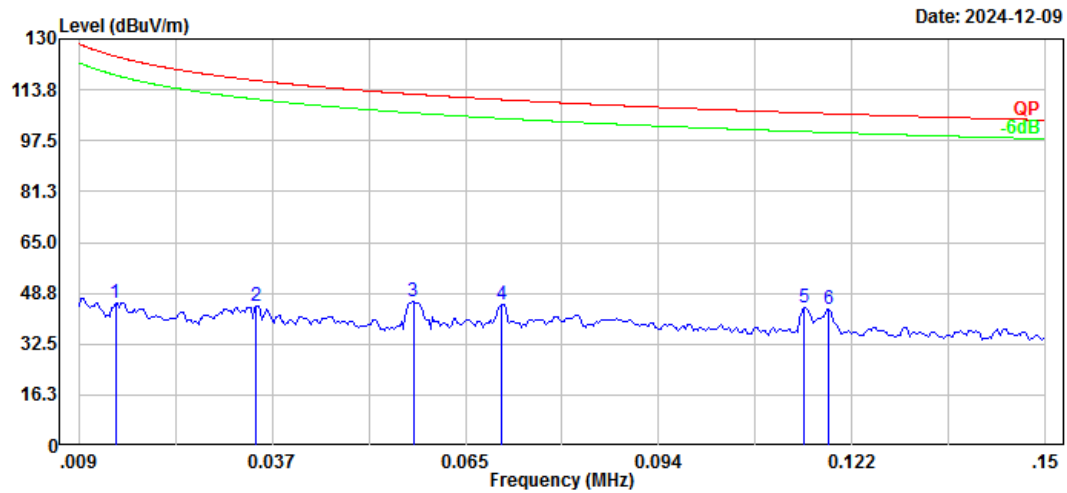


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	40.47	4.57	45.04	80.51	35.47	Peak
2	13.454	43.47	4.55	48.02	90.47	42.45	Peak
3	13.562	59.31	4.53	63.84	124.00	60.16	Peak
4	13.666	44.69	4.51	49.20	90.47	41.27	Peak
5	13.772	42.53	4.51	47.04	80.51	33.47	Peak
6	13.859	32.99	4.49	37.48	80.51	43.03	Peak

**Perpendicular**

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M1

Serial No.: 2T0Q-1  
Tester: Zoo Zou

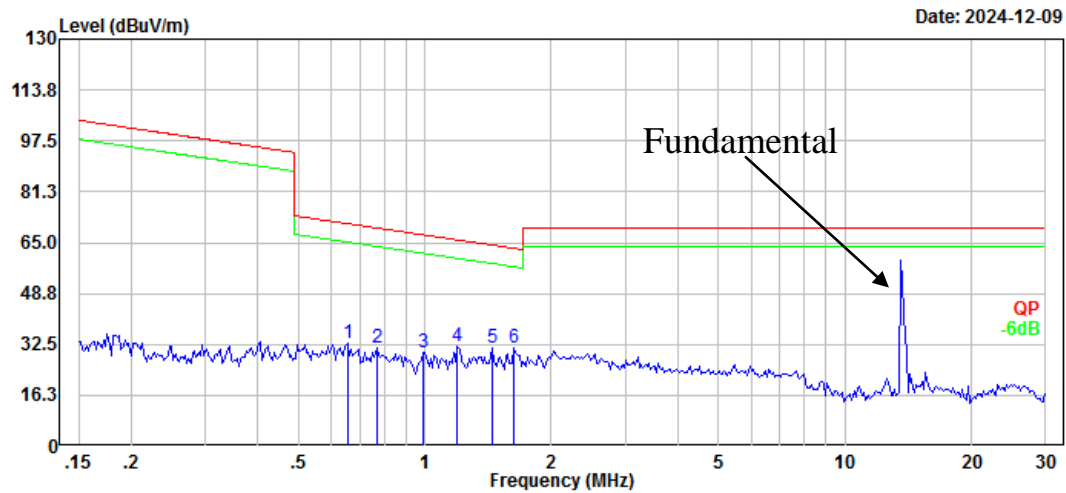


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.014	-5.98	51.63	45.65	124.46	78.81	Peak
2	0.035	-2.00	46.67	44.67	116.74	72.07	Peak
3	0.058	3.29	42.72	46.01	112.37	66.36	Peak
4	0.071	4.62	40.46	45.08	110.61	65.53	Peak
5	0.115	9.77	34.59	44.36	106.41	62.05	Peak
6	0.118	9.20	34.39	43.59	106.14	62.55	Peak



Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M1

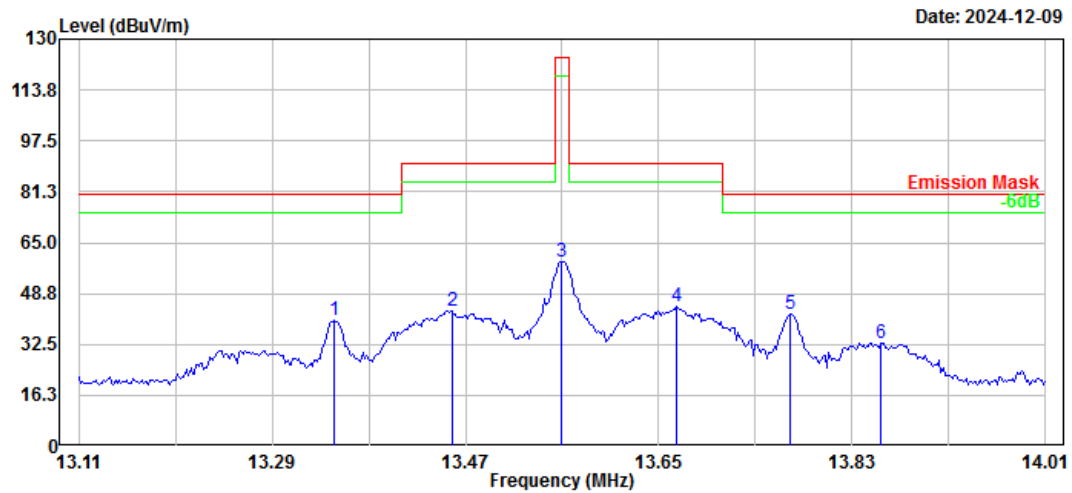
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	0.654	10.76	21.92	32.68	71.24	38.56	Peak
2	0.767	10.58	20.86	31.44	69.83	38.39	Peak
3	0.989	13.25	16.78	30.03	67.57	37.54	Peak
4	1.197	16.17	15.68	31.85	65.88	34.03	Peak
5	1.449	16.91	14.57	31.48	64.18	32.70	Peak
6	1.628	17.83	13.77	31.60	63.15	31.55	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M1

Serial No.: 2T0Q-1  
Tester: Zoo Zou

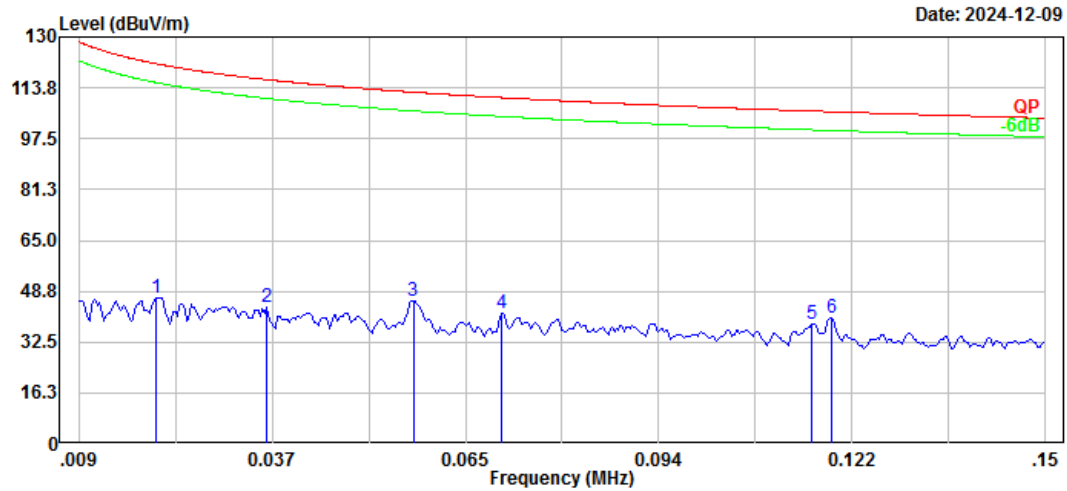


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.348	35.43	4.57	40.00	80.51	40.51	Peak
2	13.457	38.58	4.55	43.13	90.47	47.34	Peak
3	13.560	54.45	4.53	58.98	124.00	65.02	Peak
4	13.666	40.09	4.51	44.60	90.47	45.87	Peak
5	13.772	37.71	4.51	42.22	80.51	38.29	Peak
6	13.857	28.58	4.49	33.07	80.51	47.44	Peak

**Ground Parallel**

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M1

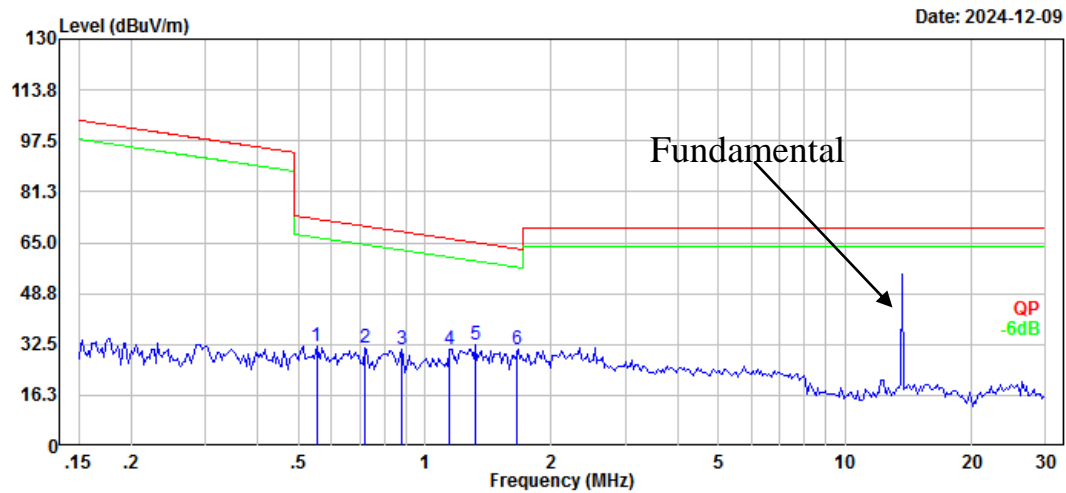
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.020	-3.39	49.97	46.58	121.46	74.88	Peak
2	0.036	-2.80	46.42	43.62	116.39	72.77	Peak
3	0.058	3.13	42.72	45.85	112.37	66.52	Peak
4	0.071	1.15	40.46	41.61	110.61	69.00	Peak
5	0.116	3.82	34.52	38.34	106.32	67.98	Peak
6	0.119	5.65	34.37	40.02	106.12	66.10	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M1

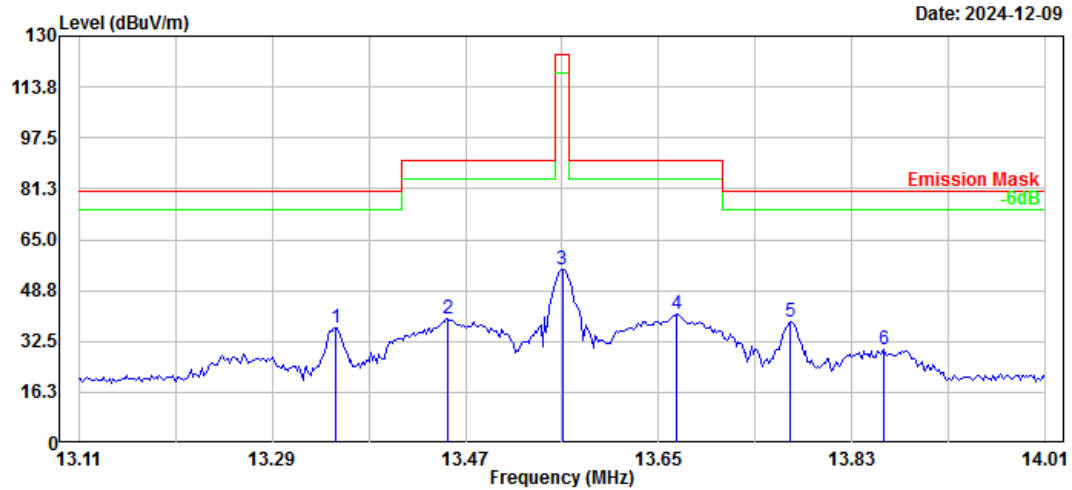
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.552	8.71	22.97	31.68	72.74	41.06	Peak
2	0.720	9.94	21.29	31.23	70.39	39.16	Peak
3	0.880	11.86	18.95	30.81	68.60	37.79	Peak
4	1.147	14.99	15.91	30.90	66.26	35.36	Peak
5	1.317	17.06	15.15	32.21	65.03	32.82	Peak
6	1.662	17.08	13.62	30.70	62.97	32.27	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M1

Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	32.20	4.57	36.77	80.51	43.74	Peak
2	13.454	35.14	4.55	39.69	90.47	50.78	Peak
3	13.560	50.92	4.53	55.45	124.00	68.55	Peak
4	13.666	36.69	4.51	41.20	90.47	49.27	Peak
5	13.772	34.38	4.51	38.89	80.51	41.62	Peak
6	13.859	25.49	4.49	29.98	80.51	50.53	Peak

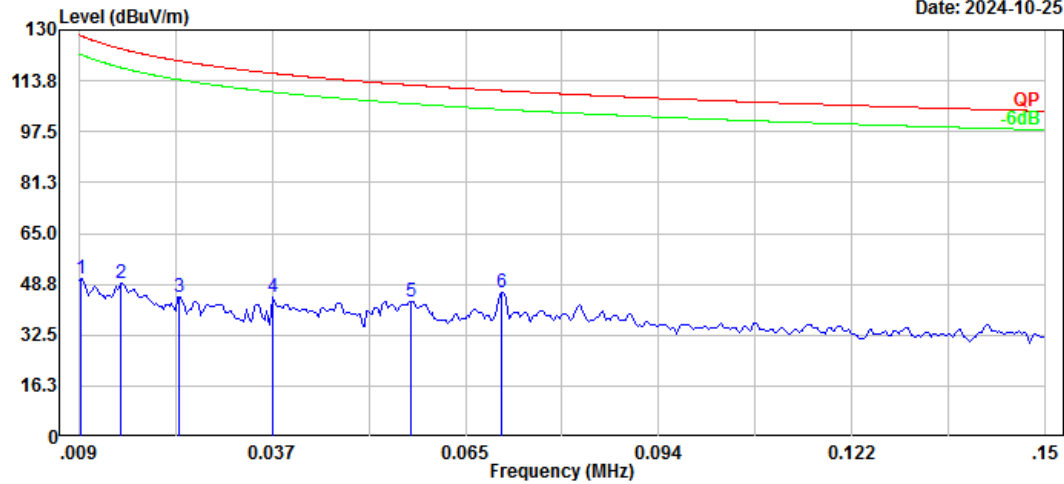
M2:

**Parallel**

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

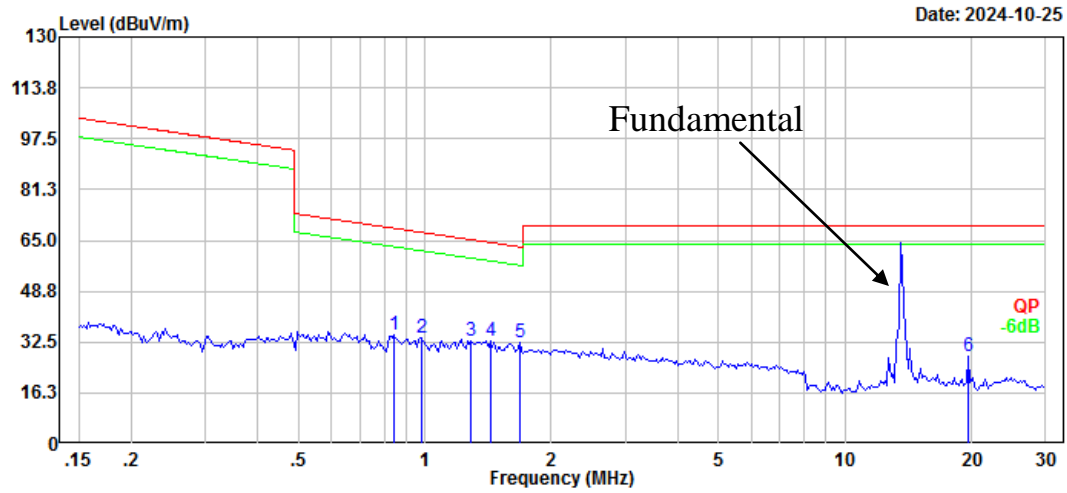
Date: 2024-10-25



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	-2.78	53.12	50.34	128.25	77.91	Peak
2	0.015	-2.55	51.38	48.83	123.97	75.14	Peak
3	0.024	-4.24	49.13	44.89	120.12	75.23	Peak
4	0.037	-1.40	46.28	44.88	116.19	71.31	Peak
5	0.058	0.54	42.76	43.30	112.41	69.11	Peak
6	0.071	5.53	40.46	45.99	110.61	64.62	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

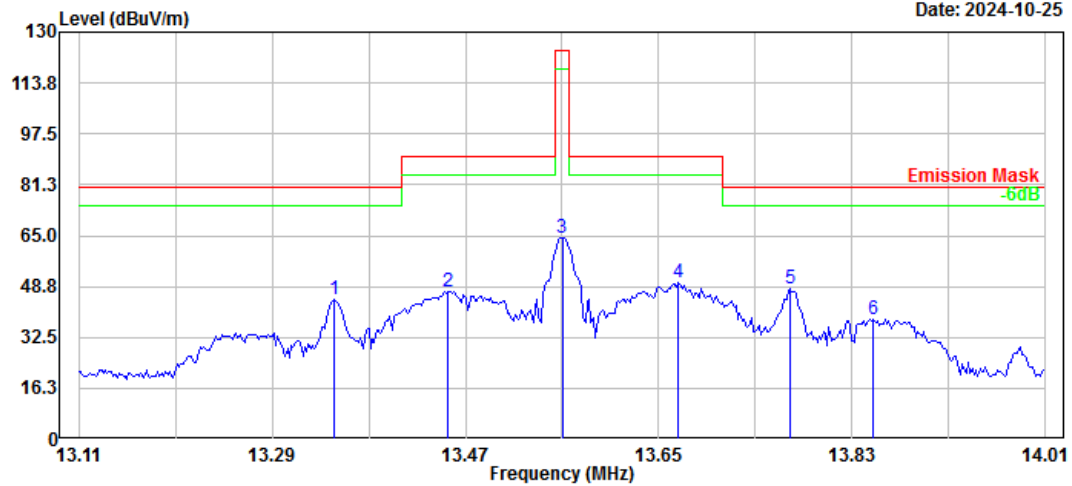


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.844	15.37	19.68	35.05	68.98	33.93	Peak
2	0.979	16.63	16.99	33.62	67.66	34.04	Peak
3	1.289	17.76	15.28	33.04	65.22	32.18	Peak
4	1.433	18.11	14.64	32.75	64.28	31.53	Peak
5	1.680	18.86	13.54	32.40	62.87	30.47	Peak
6	19.635	23.59	4.20	27.79	69.54	41.75	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

Date: 2024-10-25



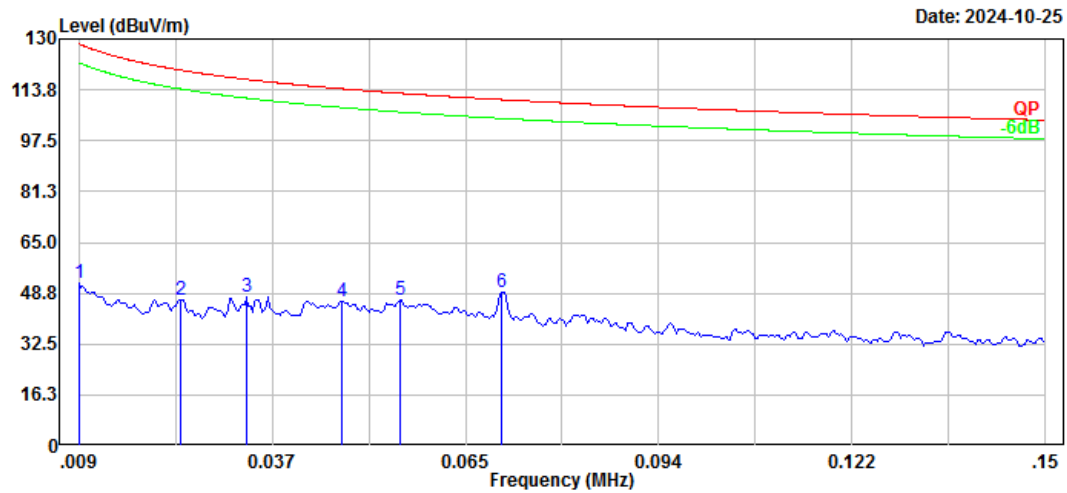
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.348	39.98	4.57	44.55	80.51	35.96	Peak
2	13.454	42.78	4.55	47.33	90.47	43.14	Peak
3	13.560	59.91	4.53	64.44	124.00	59.56	Peak
4	13.668	45.77	4.51	50.28	90.47	40.19	Peak
5	13.772	43.77	4.51	48.28	80.51	32.23	Peak
6	13.850	33.89	4.49	38.38	80.51	42.13	Peak



**Perpendicular**

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

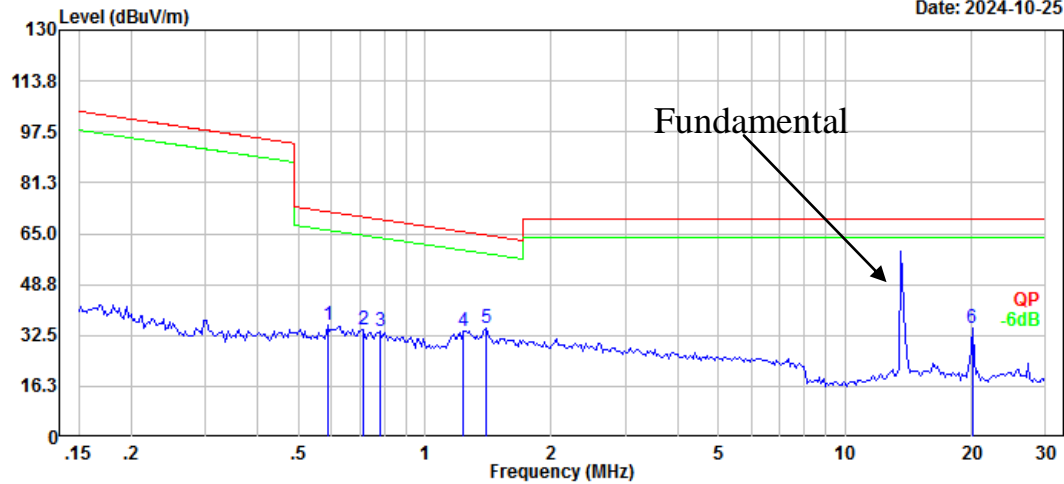


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	-1.35	53.24	51.89	128.52	76.63	Peak
2	0.024	-2.31	49.05	46.74	120.02	73.28	Peak
3	0.034	0.82	46.92	47.74	117.10	69.36	Peak
4	0.047	1.75	44.50	46.25	114.10	67.85	Peak
5	0.056	3.48	43.05	46.53	112.67	66.14	Peak
6	0.071	8.68	40.46	49.14	110.61	61.47	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

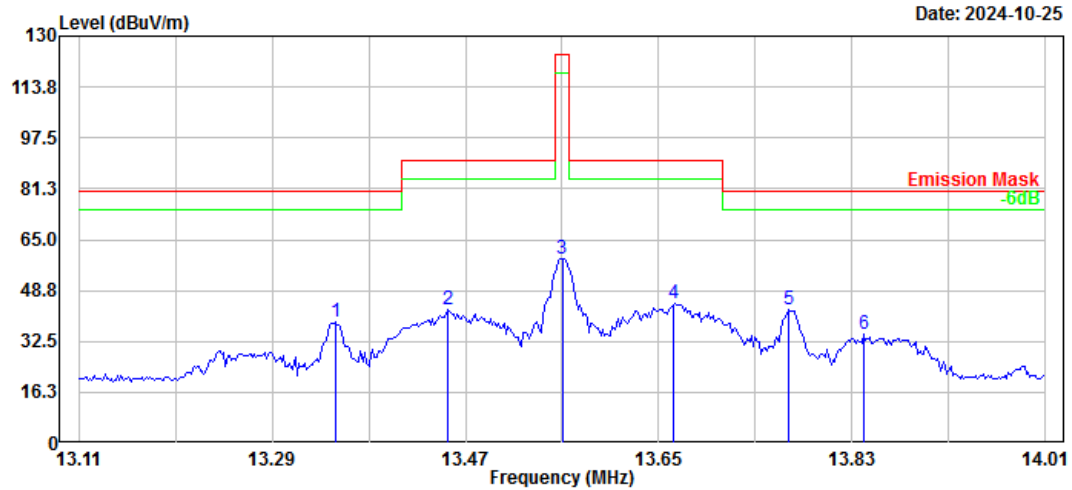
Date: 2024-10-25



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.589	13.39	22.58	35.97	72.18	36.21	Peak
2	0.712	12.98	21.36	34.34	70.48	36.14	Peak
3	0.783	13.14	20.71	33.85	69.64	35.79	Peak
4	1.236	18.35	15.51	33.86	65.60	31.74	Peak
5	1.403	20.10	14.77	34.87	64.47	29.60	Peak
6	20.056	30.51	4.16	34.67	69.54	34.87	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

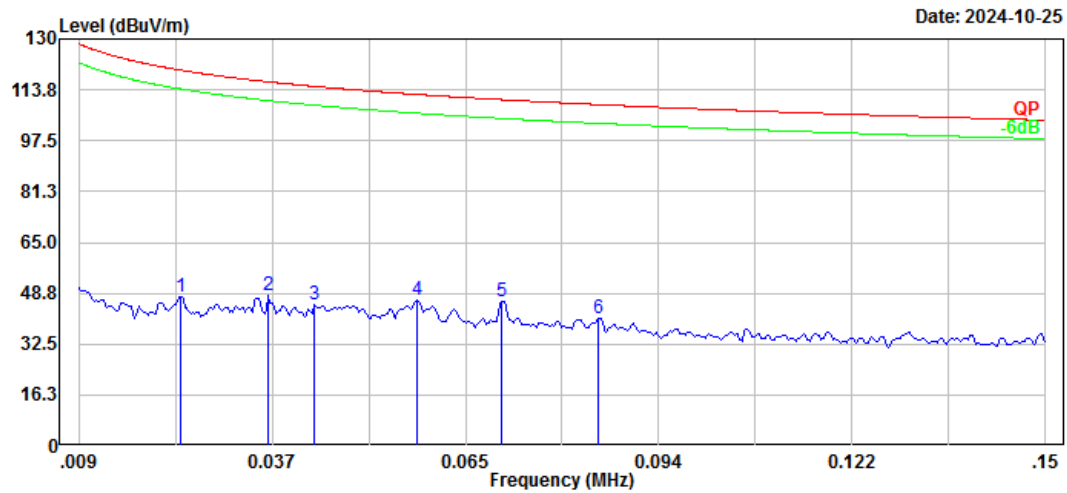


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	34.39	4.57	38.96	80.51	41.55	Peak
2	13.454	37.96	4.55	42.51	90.47	47.96	Peak
3	13.560	54.50	4.53	59.03	124.00	64.97	Peak
4	13.664	40.03	4.51	44.54	90.47	45.93	Peak
5	13.771	38.01	4.51	42.52	80.51	37.99	Peak
6	13.841	30.46	4.49	34.95	80.51	45.56	Peak

**Ground Parallel**

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M2

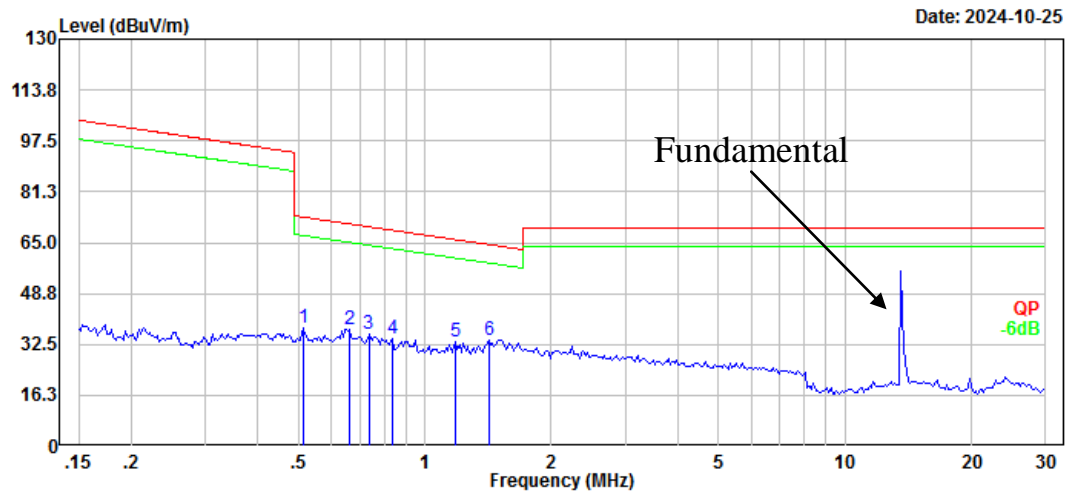
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.024	-1.44	49.05	47.61	120.02	72.41	Peak
2	0.037	1.59	46.37	47.96	116.33	68.37	Peak
3	0.043	-0.14	45.19	45.05	114.85	69.80	Peak
4	0.058	3.85	42.62	46.47	112.28	65.81	Peak
5	0.071	5.53	40.46	45.99	110.61	64.62	Peak
6	0.085	2.57	38.06	40.63	109.03	68.40	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M2

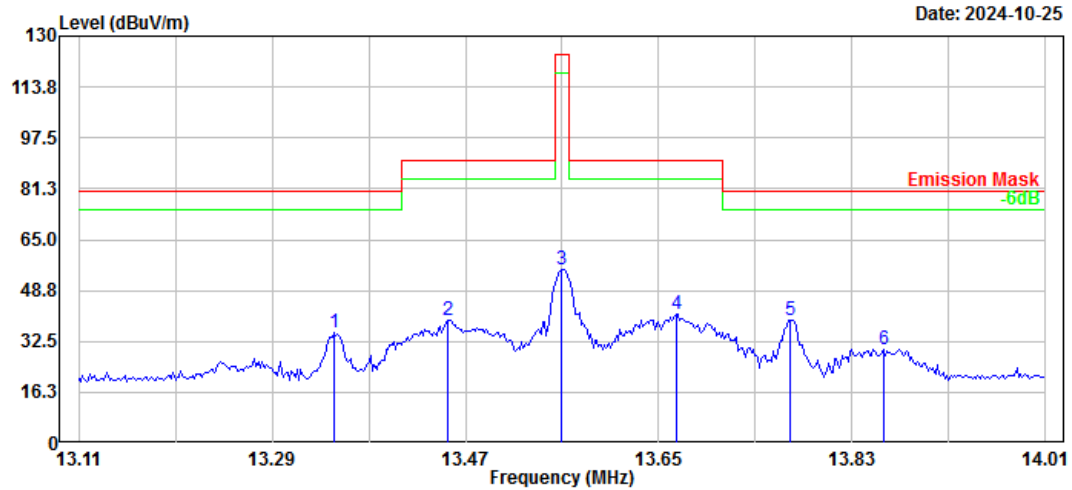
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.513	14.27	23.40	37.67	73.40	35.73	Peak
2	0.661	15.41	21.85	37.26	71.14	33.88	Peak
3	0.735	14.84	21.15	35.99	70.20	34.21	Peak
4	0.835	14.36	19.86	34.22	69.07	34.85	Peak
5	1.184	17.69	15.74	33.43	65.97	32.54	Peak
6	1.418	19.04	14.71	33.75	64.37	30.62	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou



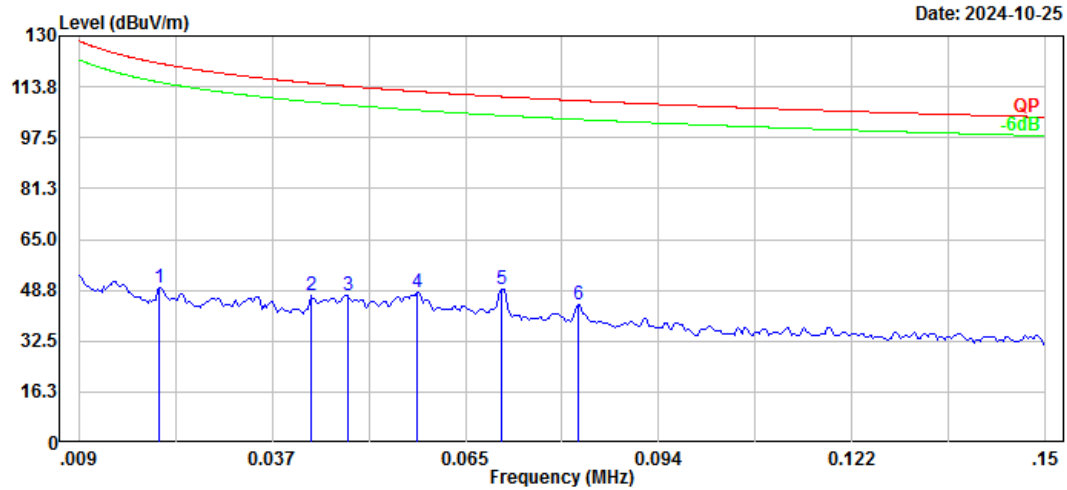
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.348	30.58	4.57	35.15	80.51	45.36	Peak
2	13.454	34.82	4.55	39.37	90.47	51.10	Peak
3	13.560	51.00	4.53	55.53	124.00	68.47	Peak
4	13.666	36.71	4.51	41.22	90.47	49.25	Peak
5	13.772	34.79	4.51	39.30	80.51	41.21	Peak
6	13.859	25.64	4.49	30.13	80.51	50.38	Peak

M3:

**Parallel**

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M3

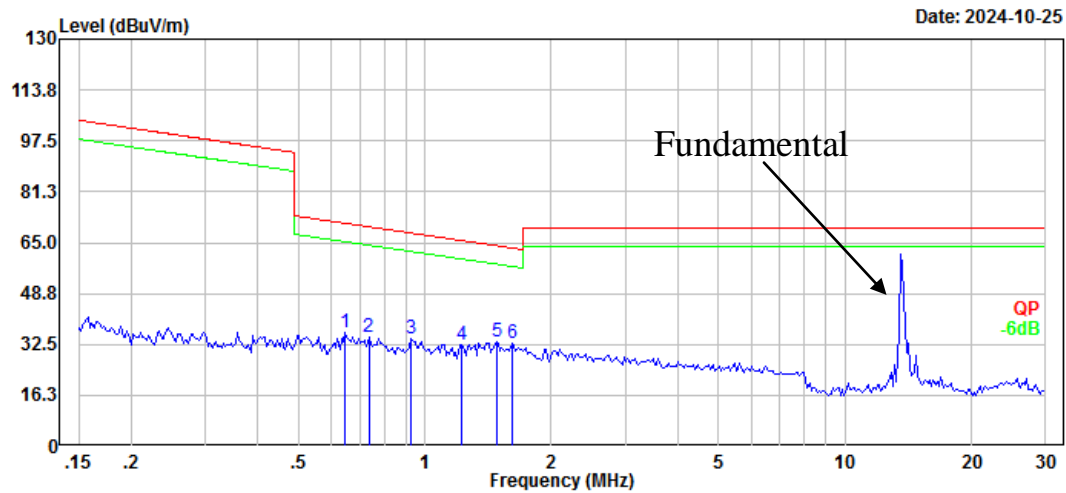
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.021	-0.41	49.83	49.42	121.23	71.81	Peak
2	0.043	1.83	45.29	47.12	114.97	67.85	Peak
3	0.048	2.81	44.37	47.18	113.94	66.76	Peak
4	0.058	5.46	42.62	48.08	112.28	64.20	Peak
5	0.071	8.50	40.46	48.96	110.61	61.65	Peak
6	0.082	5.49	38.61	44.10	109.35	65.25	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M3

Serial No.: 2T0Q-1  
Tester: Zoo Zou

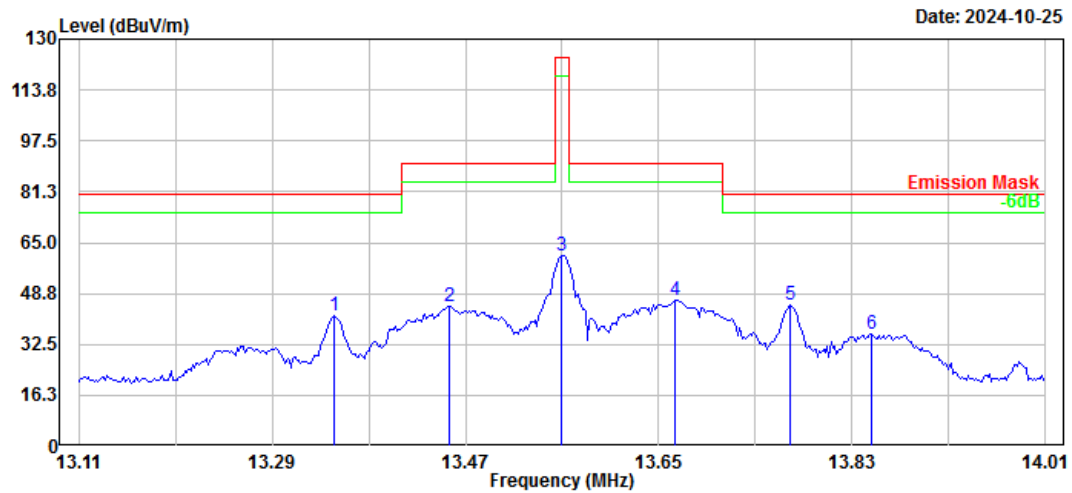


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	0.647	14.19	22.00	36.19	71.33	35.14	Peak
2	0.735	13.83	21.15	34.98	70.20	35.22	Peak
3	0.928	16.23	18.00	34.23	68.13	33.90	Peak
4	1.223	16.91	15.57	32.48	65.69	33.21	Peak
5	1.480	19.15	14.43	33.58	64.00	30.42	Peak
6	1.610	18.91	13.85	32.76	63.25	30.49	Peak



Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M3

Serial No.: 2T0Q-1  
Tester: Zoo Zou

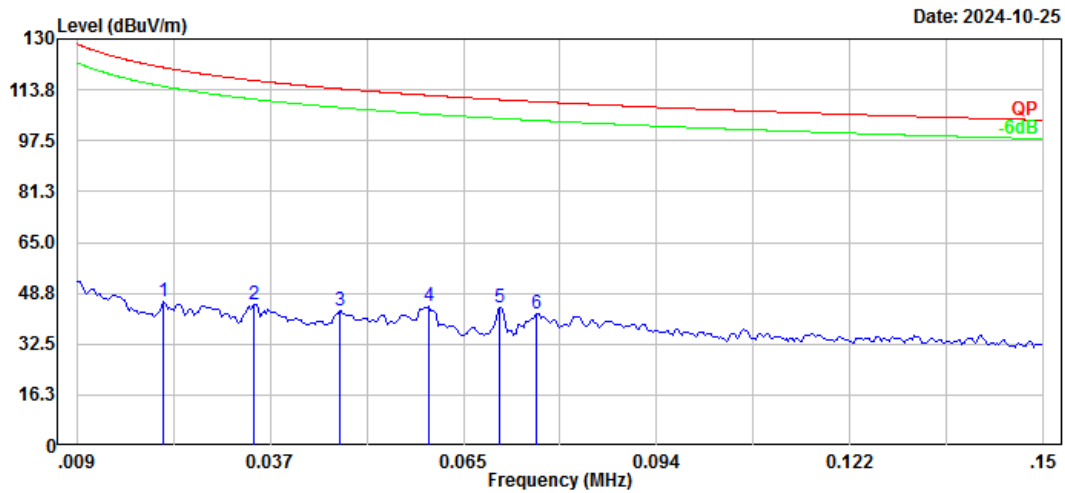


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.348	36.88	4.57	41.45	80.51	39.06	Peak
2	13.456	40.01	4.55	44.56	90.47	45.91	Peak
3	13.560	56.28	4.53	60.81	124.00	63.19	Peak
4	13.664	42.16	4.51	46.67	90.47	43.80	Peak
5	13.772	40.52	4.51	45.03	80.51	35.48	Peak
6	13.848	31.32	4.49	35.81	80.51	44.70	Peak

**Perpendicular**

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M3

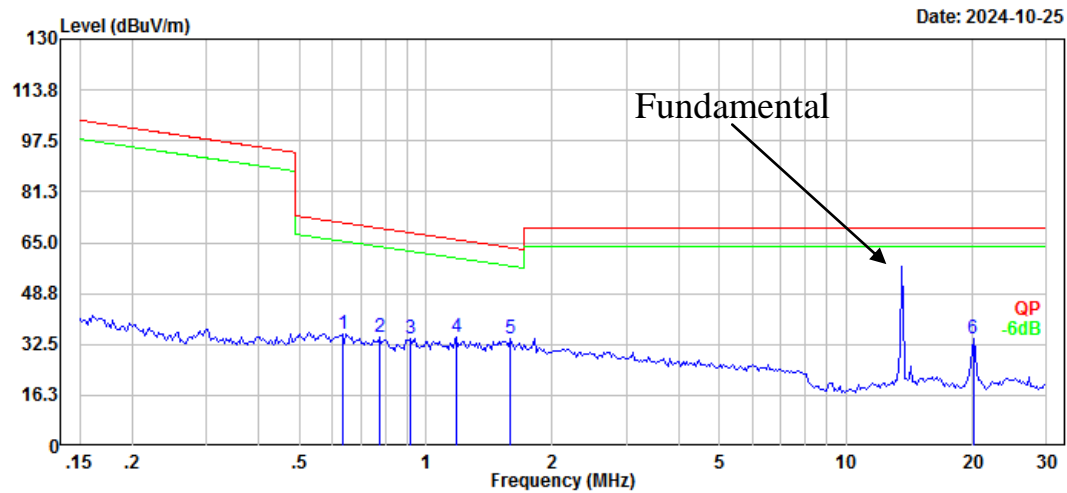
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.022	-3.55	49.62	46.07	120.88	74.81	Peak
2	0.035	-1.44	46.67	45.23	116.74	71.51	Peak
3	0.047	-1.48	44.50	43.02	114.10	71.08	Peak
4	0.060	2.58	42.28	44.86	111.99	67.13	Peak
5	0.071	3.46	40.46	43.92	110.61	66.69	Peak
6	0.076	2.52	39.57	42.09	109.97	67.88	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M3

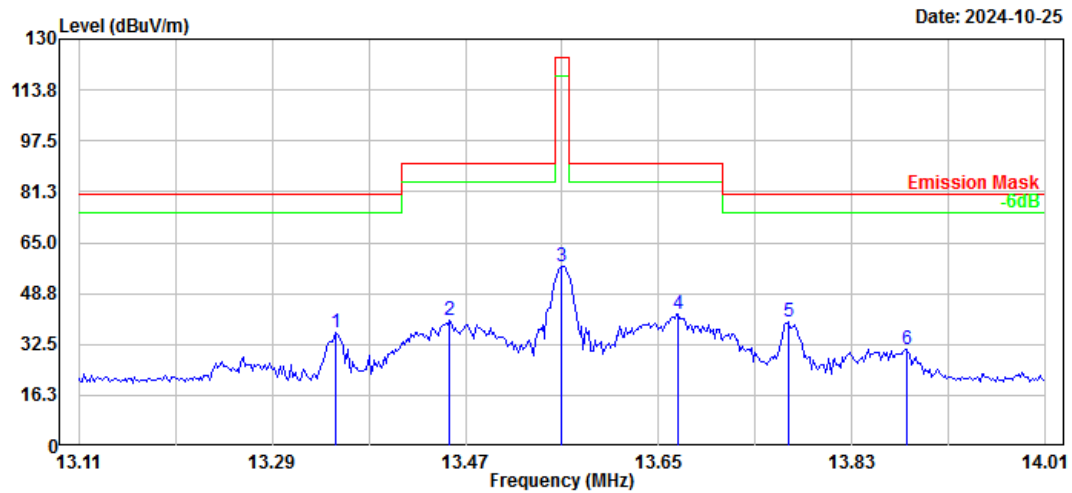
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.634	13.62	22.13	35.75	71.52	35.77	Peak
2	0.775	14.26	20.78	35.04	69.73	34.69	Peak
3	0.918	16.35	18.19	34.54	68.23	33.69	Peak
4	1.184	18.88	15.74	34.62	65.97	31.35	Peak
5	1.593	20.38	13.93	34.31	63.34	29.03	Peak
6	20.056	30.38	4.16	34.54	69.54	35.00	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M3

Serial No.: 2T0Q-1  
Tester: Zoo Zou

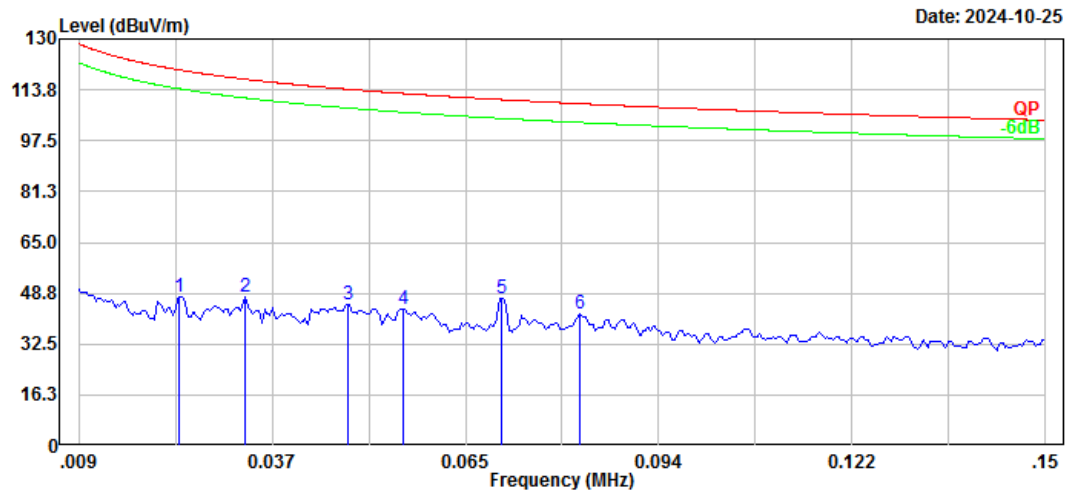


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
<hr/>							
1	13.349	31.61	4.57	36.18	80.51	44.33	Peak
2	13.456	35.50	4.55	40.05	90.47	50.42	Peak
3	13.560	52.92	4.53	57.45	124.00	66.55	Peak
4	13.668	37.56	4.51	42.07	90.47	48.40	Peak
5	13.771	35.16	4.51	39.67	80.51	40.84	Peak
6	13.880	26.47	4.48	30.95	80.51	49.56	Peak

**Ground Parallel**

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M3

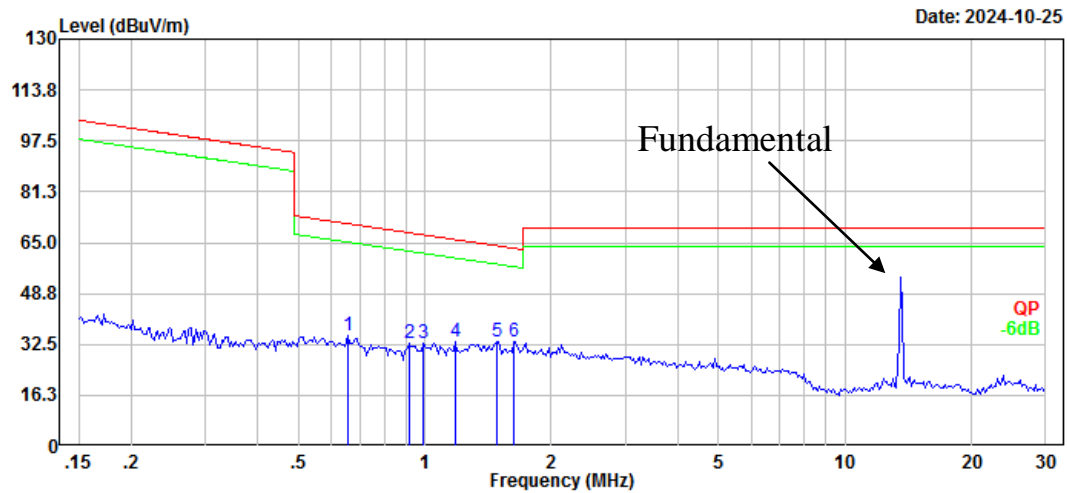
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.024	-1.44	49.13	47.69	120.12	72.43	Peak
2	0.033	0.50	46.97	47.47	117.17	69.70	Peak
3	0.048	0.66	44.37	45.03	113.94	68.91	Peak
4	0.056	0.73	42.96	43.69	112.58	68.89	Peak
5	0.071	6.72	40.46	47.18	110.61	63.43	Peak
6	0.082	3.42	38.56	41.98	109.32	67.34	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M3

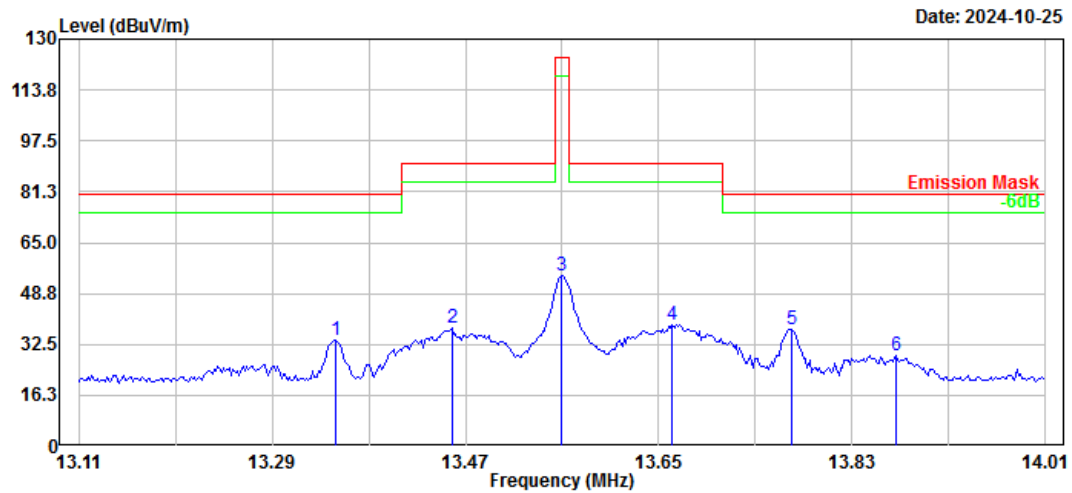
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.654	13.64	21.92	35.56	71.24	35.68	Peak
2	0.918	14.51	18.19	32.70	68.23	35.53	Peak
3	0.989	16.26	16.78	33.04	67.57	34.53	Peak
4	1.184	17.81	15.74	33.55	65.97	32.42	Peak
5	1.480	18.96	14.43	33.39	64.00	30.61	Peak
6	1.628	19.76	13.78	33.54	63.15	29.61	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M3

Serial No.: 2T0Q-1  
Tester: Zoo Zou



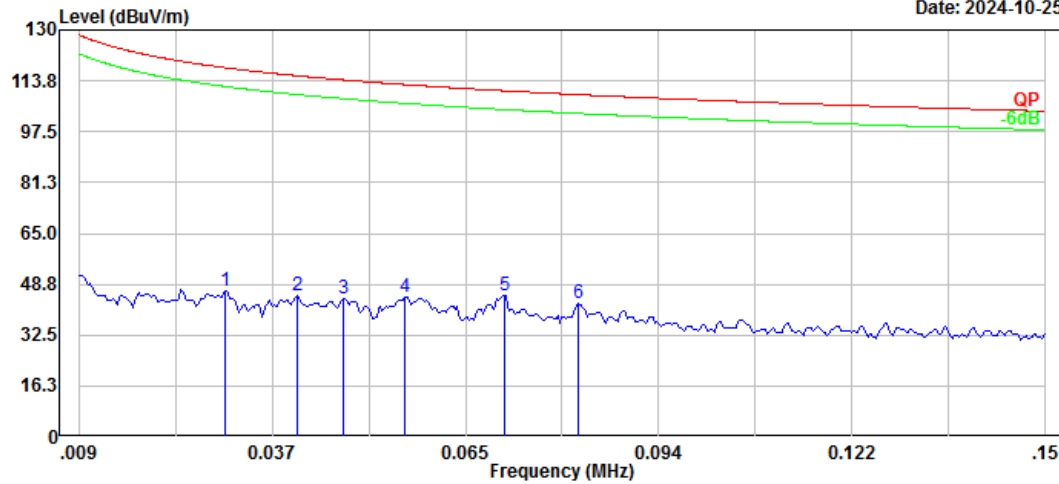
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
<hr/>							
1	13.349	29.17	4.57	33.74	80.51	46.77	Peak
2	13.457	33.09	4.55	37.64	90.47	52.83	Peak
3	13.560	49.75	4.53	54.28	124.00	69.72	Peak
4	13.663	34.19	4.51	38.70	90.47	51.77	Peak
5	13.774	32.98	4.51	37.49	80.51	43.02	Peak
6	13.871	24.52	4.49	29.01	80.51	51.50	Peak

**M4:**  
**Parallel**

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M4

Serial No.: 2T0Q-1  
Tester: Zoo Zou

Date: 2024-10-25

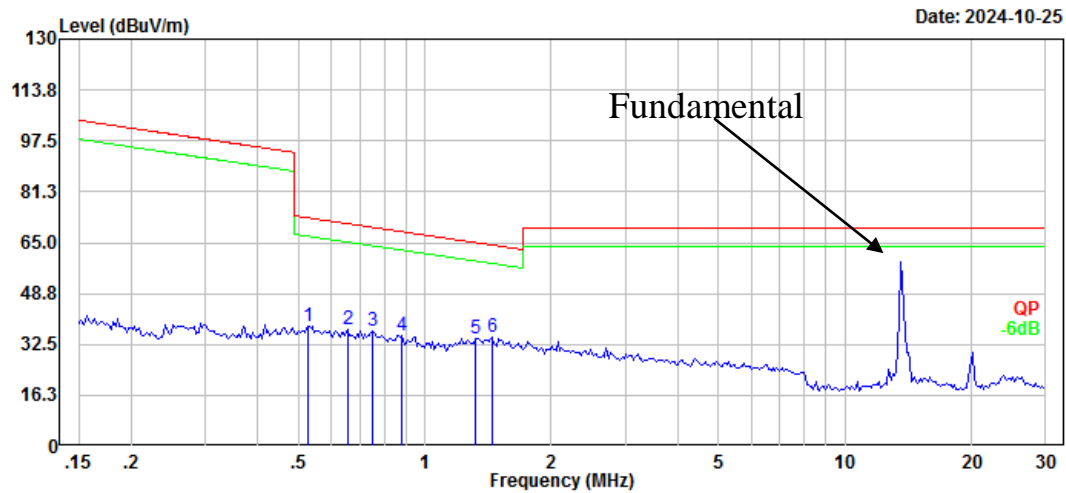


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.030	-1.06	47.48	46.42	117.94	71.52	Peak
2	0.041	-0.57	45.62	45.05	115.38	70.33	Peak
3	0.048	-0.33	44.46	44.13	114.05	69.92	Peak
4	0.057	1.94	42.91	44.85	112.54	67.69	Peak
5	0.071	4.82	40.41	45.23	110.57	65.34	Peak
6	0.082	3.86	38.61	42.47	109.35	66.88	Peak



Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M4

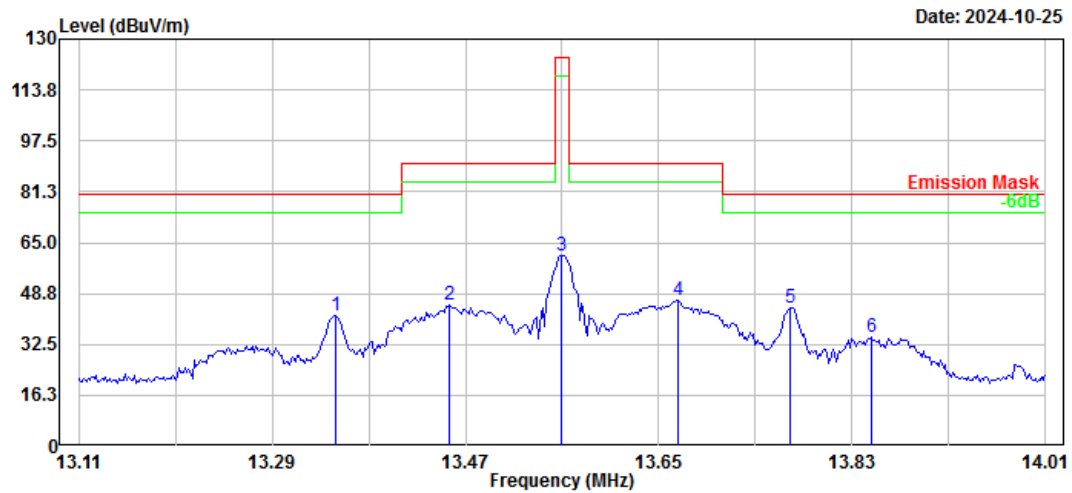
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.529	15.23	23.22	38.45	73.12	34.67	Peak
2	0.654	15.20	21.92	37.12	71.24	34.12	Peak
3	0.751	15.75	21.00	36.75	70.01	33.26	Peak
4	0.880	16.21	18.95	35.16	68.60	33.44	Peak
5	1.317	19.32	15.15	34.47	65.03	30.56	Peak
6	1.449	20.15	14.57	34.72	64.18	29.46	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Parallel  
Test Mode: Transmitting  
Note: M4

Serial No.: 2T0Q-1  
Tester: Zoo Zou

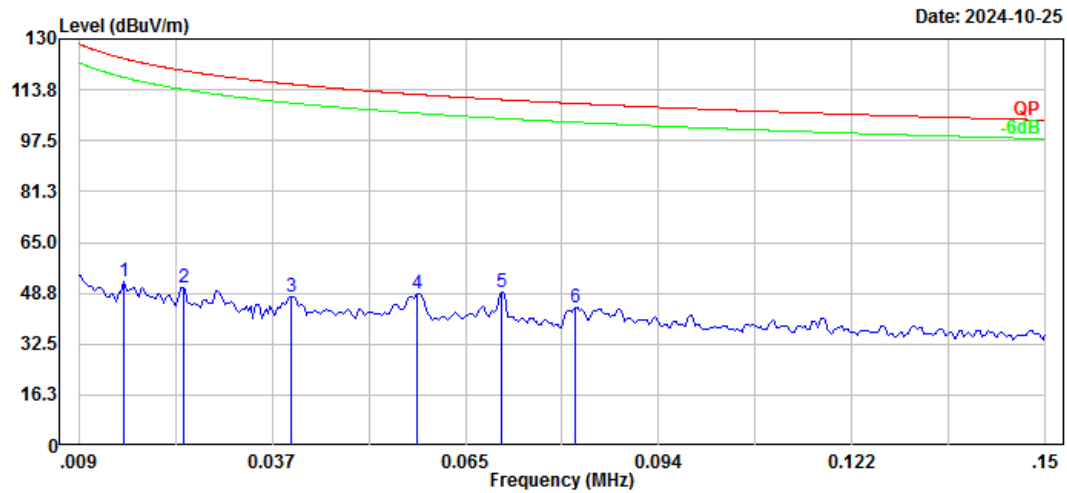


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	36.99	4.57	41.56	80.51	38.95	Peak
2	13.456	40.52	4.55	45.07	90.47	45.40	Peak
3	13.560	56.54	4.53	61.07	124.00	62.93	Peak
4	13.668	42.09	4.51	46.60	90.47	43.87	Peak
5	13.772	39.64	4.51	44.15	80.51	36.36	Peak
6	13.848	30.12	4.49	34.61	80.51	45.90	Peak

**Perpendicular**

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M4

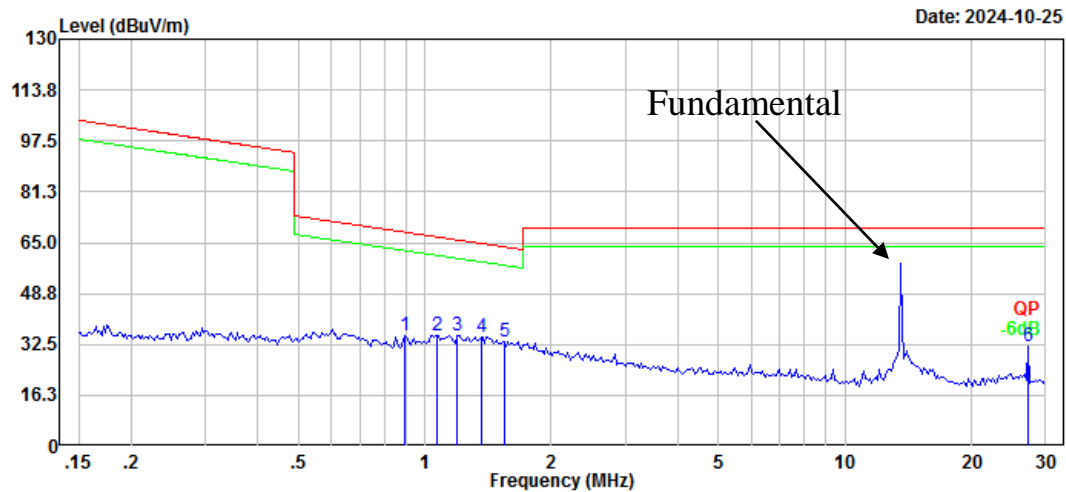
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.015	1.38	51.31	52.69	123.80	71.11	Peak
2	0.024	1.70	48.99	50.69	119.92	69.23	Peak
3	0.040	1.99	45.77	47.76	115.56	67.80	Peak
4	0.058	5.90	42.62	48.52	112.28	63.76	Peak
5	0.071	8.58	40.46	49.04	110.61	61.57	Peak
6	0.081	5.69	38.66	44.35	109.38	65.03	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M4

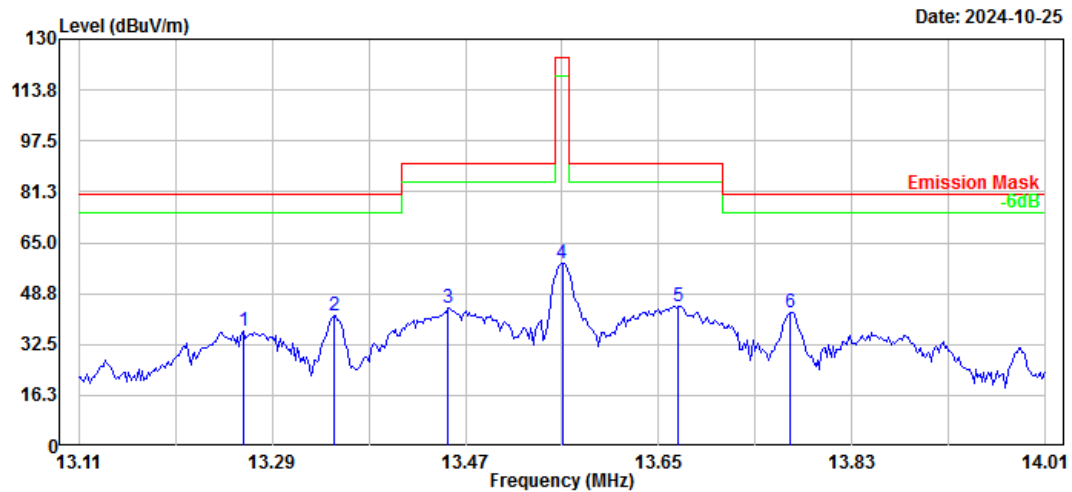
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.899	16.89	18.58	35.47	68.42	32.95	Peak
2	1.065	19.01	16.27	35.28	66.91	31.63	Peak
3	1.197	19.88	15.68	35.56	65.88	30.32	Peak
4	1.359	19.92	14.96	34.88	64.75	29.87	Peak
5	1.544	19.25	14.14	33.39	63.62	30.23	Peak
6	27.271	27.67	4.16	31.83	69.54	37.71	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: M4

Serial No.: 2T0Q-1  
Tester: Zoo Zou



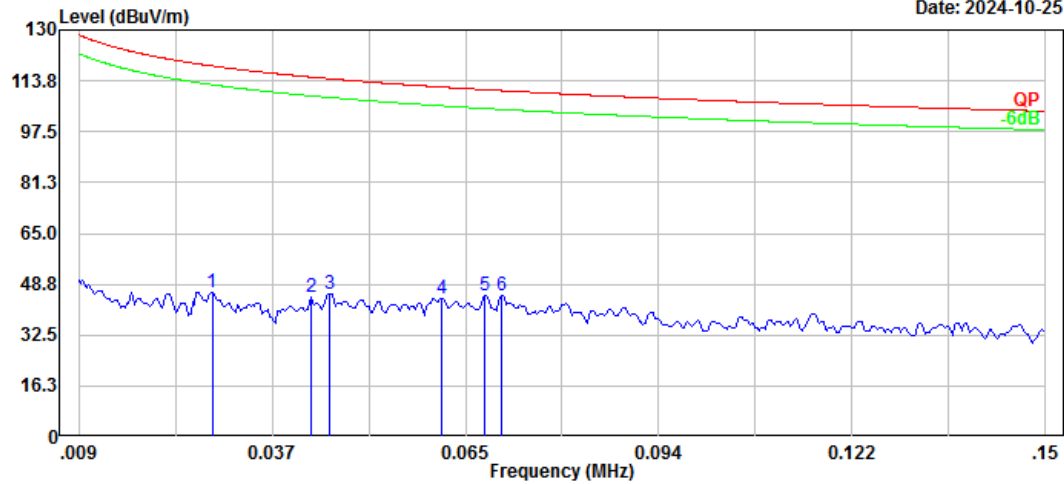
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.263	32.08	4.57	36.65	80.51	43.86	Peak
2	13.348	37.32	4.57	41.89	80.51	38.62	Peak
3	13.454	39.45	4.55	44.00	90.47	46.47	Peak
4	13.560	53.81	4.53	58.34	124.00	65.66	Peak
5	13.668	40.30	4.51	44.81	90.47	45.66	Peak
6	13.772	38.11	4.51	42.62	80.51	37.89	Peak

**Ground Parallel**

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M4

Serial No.: 2T0Q-1  
Tester: Zoo Zou

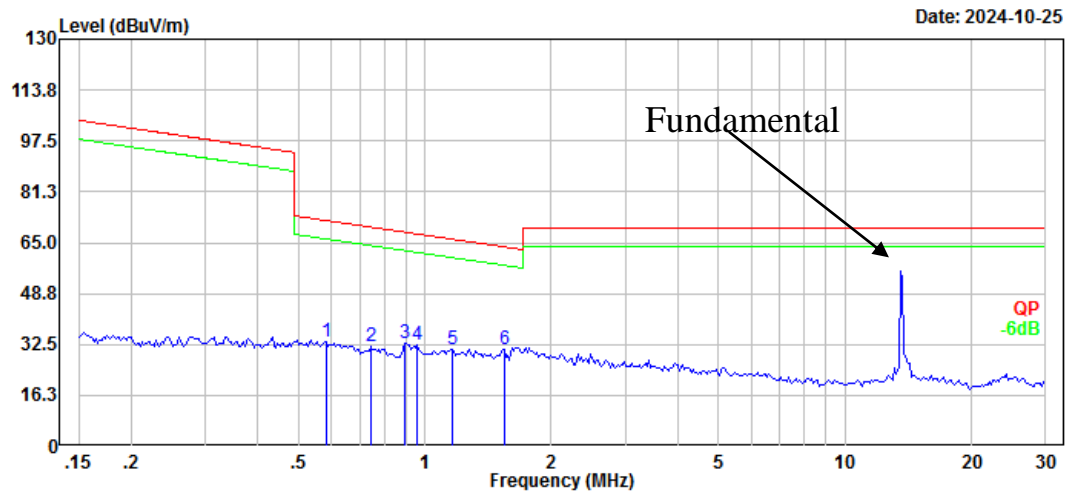
Date: 2024-10-25



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.028	-1.90	47.93	46.03	118.52	72.49	Peak
2	0.043	-0.57	45.29	44.72	114.97	70.25	Peak
3	0.046	1.05	44.80	45.85	114.41	68.56	Peak
4	0.062	2.34	41.99	44.33	111.75	67.42	Peak
5	0.068	4.06	40.90	44.96	110.93	65.97	Peak
6	0.071	4.51	40.46	44.97	110.61	65.64	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M4

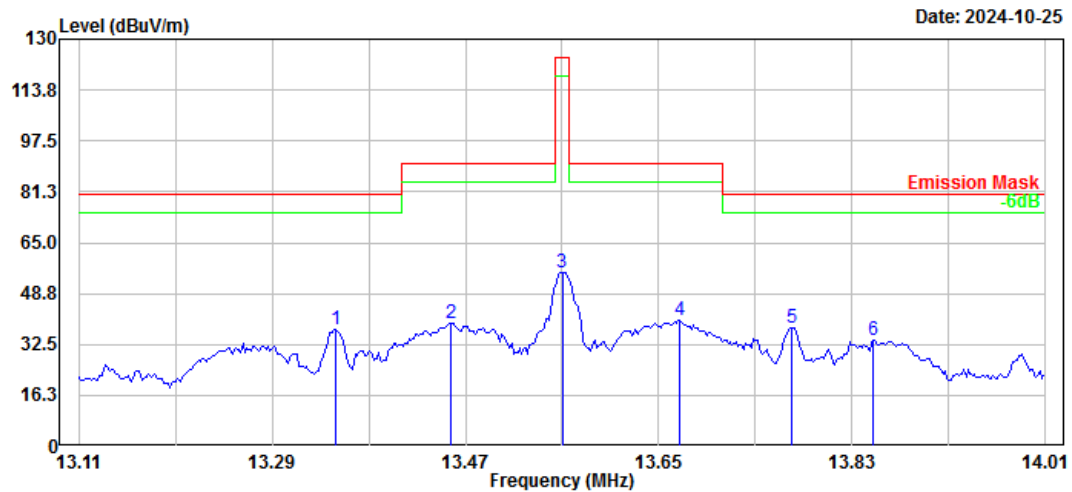
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.582	10.85	22.65	33.50	72.27	38.77	Peak
2	0.743	10.79	21.08	31.87	70.11	38.24	Peak
3	0.899	14.12	18.58	32.70	68.42	35.72	Peak
4	0.958	14.82	17.40	32.22	67.85	35.63	Peak
5	1.160	15.12	15.85	30.97	66.16	35.19	Peak
6	1.544	16.62	14.14	30.76	63.62	32.86	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Ground-Parallel  
Test Mode: Transmitting  
Note: M4

Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	32.88	4.57	37.45	80.51	43.06	Peak
2	13.457	34.68	4.55	39.23	90.47	51.24	Peak
3	13.560	51.08	4.53	55.61	124.00	68.39	Peak
4	13.670	35.51	4.51	40.02	90.47	50.45	Peak
5	13.774	33.47	4.51	37.98	80.51	42.53	Peak
6	13.850	29.13	4.49	33.62	80.51	46.89	Peak



**M5:**  
**Parallel**

Project No.: 2402Y99420E-RF-A1

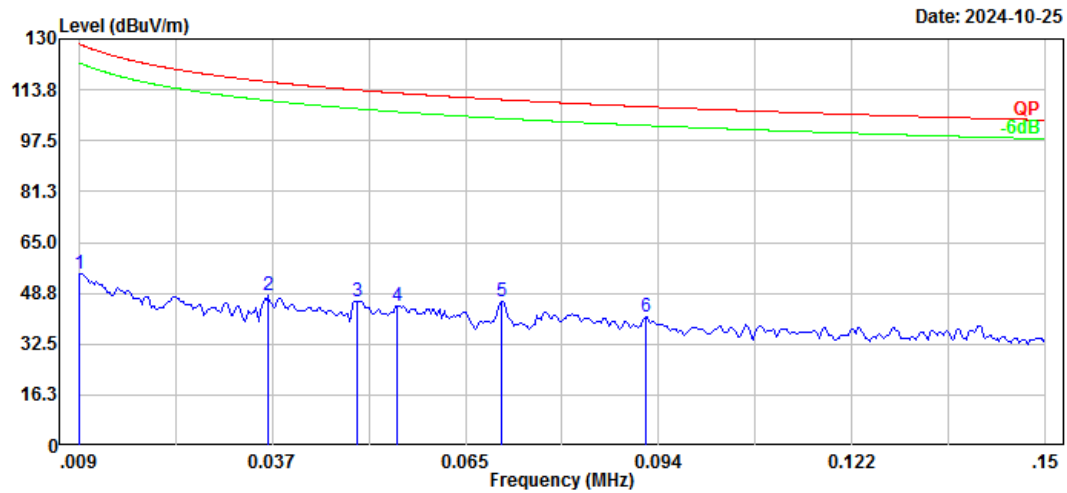
Serial No.: 2T0Q-2

Polarization: Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	1.80	53.24	55.04	128.52	73.48	Peak
2	0.037	1.69	46.37	48.06	116.33	68.27	Peak
3	0.050	2.18	44.12	46.30	113.69	67.39	Peak
4	0.056	1.77	43.10	44.87	112.71	67.84	Peak
5	0.071	5.64	40.46	46.10	110.61	64.51	Peak
6	0.092	4.51	36.86	41.37	108.36	66.99	Peak

Project No.: 2402Y99420E-RF-A1

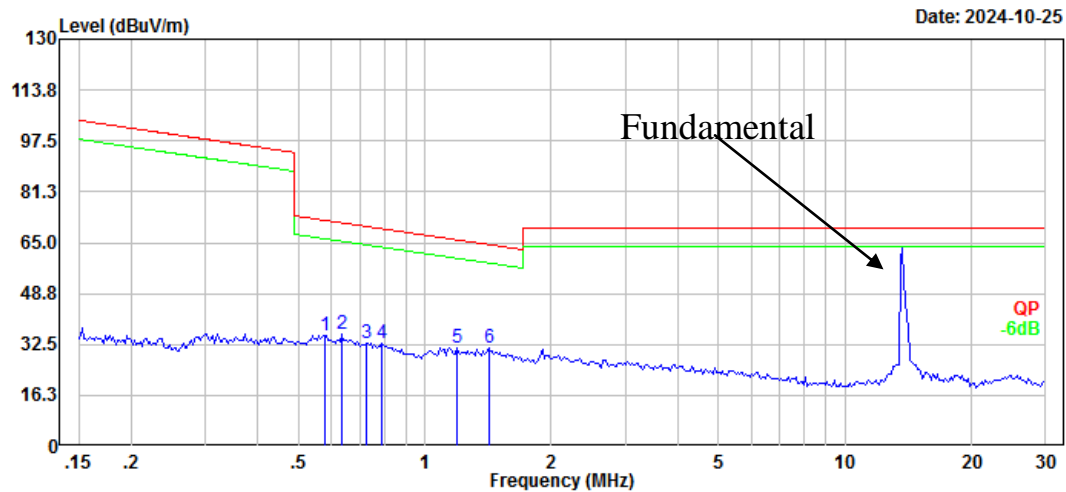
Serial No.: 2T0Q-2

Polarization: Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.576	12.74	22.71	35.45	72.36	36.91	Peak
2	0.634	13.53	22.13	35.66	71.52	35.86	Peak
3	0.727	11.76	21.22	32.98	70.30	37.32	Peak
4	0.792	12.20	20.63	32.83	69.54	36.71	Peak
5	1.197	15.71	15.68	31.39	65.88	34.49	Peak
6	1.418	16.74	14.71	31.45	64.37	32.92	Peak

Project No.: 2402Y99420E-RF-A1

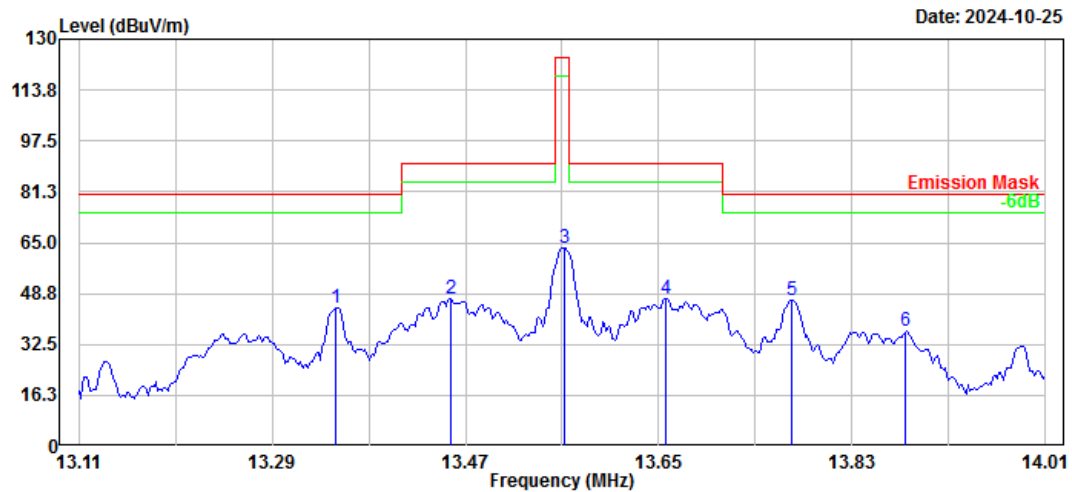
Serial No.: 2T0Q-2

Polarization: Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	39.43	4.57	44.00	80.51	36.51	Peak
2	13.456	42.65	4.55	47.20	90.47	43.27	Peak
3	13.562	58.95	4.53	63.48	124.00	60.52	Peak
4	13.657	42.57	4.51	47.08	90.47	43.39	Peak
5	13.774	42.01	4.51	46.52	80.51	33.99	Peak
6	13.880	32.20	4.48	36.68	80.51	43.83	Peak

**Perpendicular**

Project No.: 2402Y99420E-RF-A1

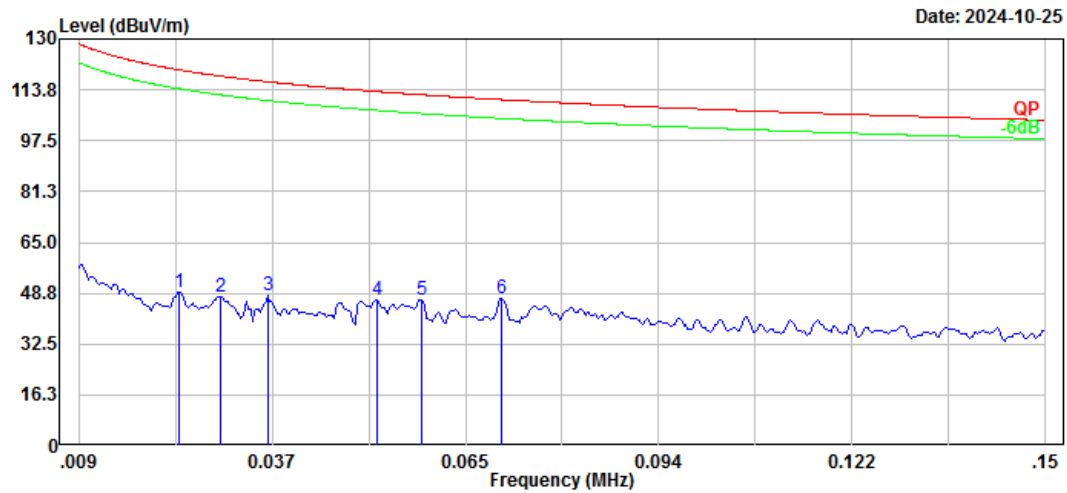
Serial No.: 2T0Q-2

Polarization: Perpendicular

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.024	0.13	49.13	49.26	120.12	70.86	Peak
2	0.030	-0.03	47.66	47.63	118.18	70.55	Peak
3	0.037	1.81	46.37	48.18	116.33	68.15	Peak
4	0.052	2.85	43.64	46.49	113.21	66.72	Peak
5	0.059	4.10	42.52	46.62	112.20	65.58	Peak
6	0.071	6.51	40.46	46.97	110.61	63.64	Peak

Project No.: 2402Y99420E-RF-A1

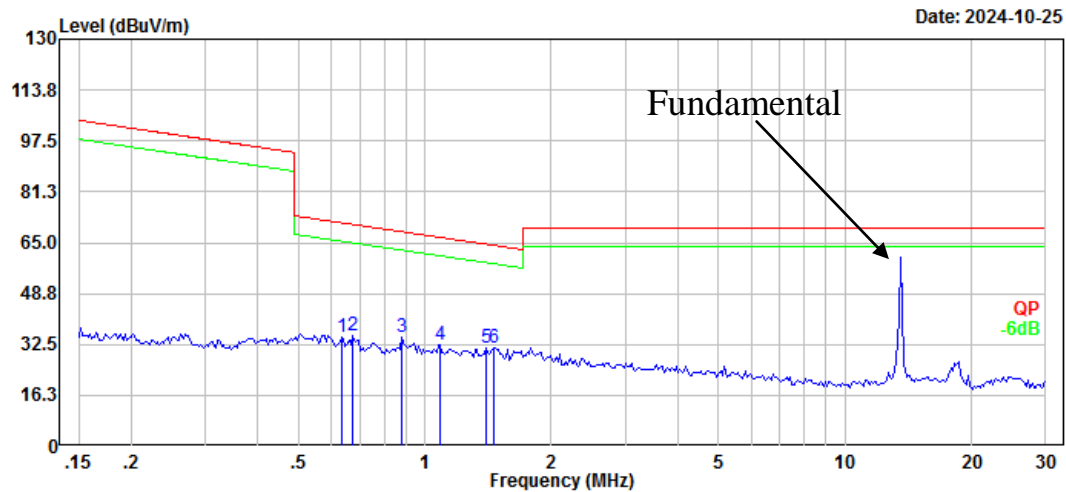
Serial No.: 2T0Q-2

Polarization: Perpendicular

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.634	12.82	22.13	34.95	71.52	36.57	Peak
2	0.675	13.51	21.71	35.22	70.95	35.73	Peak
3	0.880	15.71	18.95	34.66	68.60	33.94	Peak
4	1.088	16.17	16.17	32.34	66.72	34.38	Peak
5	1.403	16.58	14.77	31.35	64.47	33.12	Peak
6	1.464	16.73	14.50	31.23	64.09	32.86	Peak

Project No.: 2402Y99420E-RF-A1

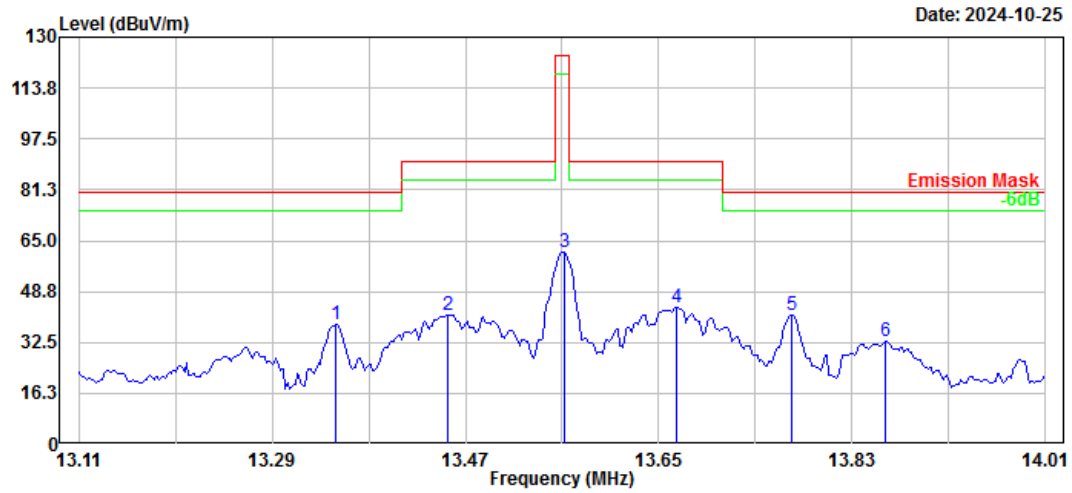
Serial No.: 2T0Q-2

Polarization: Perpendicular

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	33.67	4.57	38.24	80.51	42.27	Peak
2	13.454	36.65	4.55	41.20	90.47	49.27	Peak
3	13.562	56.75	4.53	61.28	124.00	62.72	Peak
4	13.666	39.35	4.51	43.86	90.47	46.61	Peak
5	13.774	36.90	4.51	41.41	80.51	39.10	Peak
6	13.861	28.18	4.49	32.67	80.51	47.84	Peak

**Ground Parallel**

Project No.: 2402Y99420E-RF-A1

Serial No.: 2T0Q-2

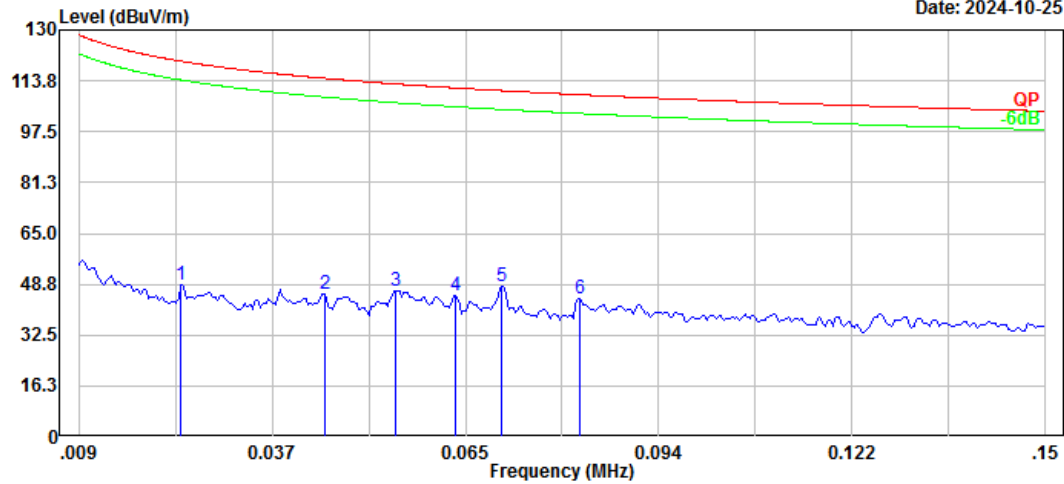
Polarization: Ground-Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)

Date: 2024-10-25



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.024	-0.65	49.05	48.40	120.02	71.62	Peak
2	0.045	0.81	44.94	45.75	114.58	68.83	Peak
3	0.055	3.56	43.15	46.71	112.76	66.05	Peak
4	0.064	3.56	41.64	45.20	111.48	66.28	Peak
5	0.071	7.38	40.46	47.84	110.61	62.77	Peak
6	0.082	5.69	38.56	44.25	109.32	65.07	Peak

Project No.: 2402Y99420E-RF-A1

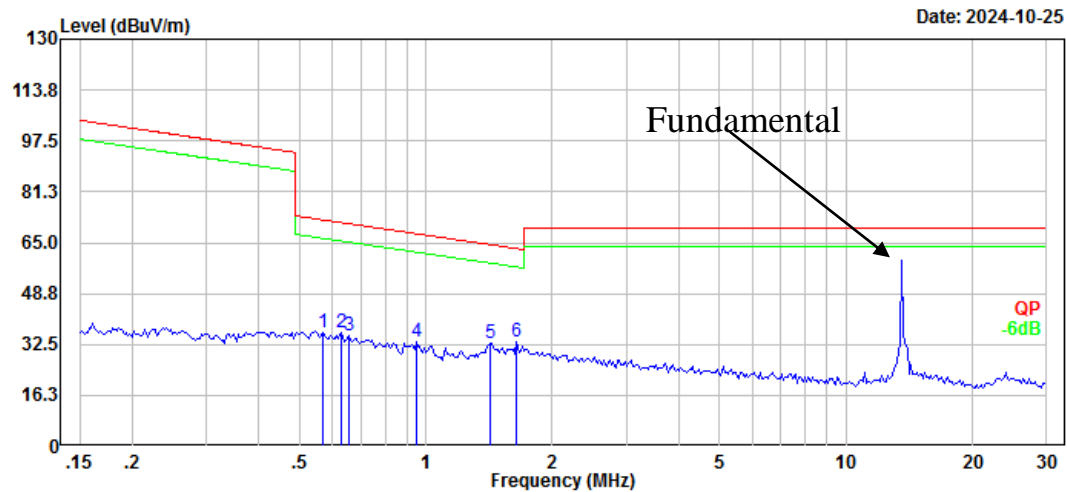
Serial No.: 2T0Q-2

Polarization: Ground-Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.570	13.71	22.78	36.49	72.46	35.97	Peak
2	0.627	14.02	22.20	36.22	71.61	35.39	Peak
3	0.654	13.28	21.92	35.20	71.24	36.04	Peak
4	0.948	15.78	17.60	33.38	67.95	34.57	Peak
5	1.418	18.28	14.71	32.99	64.37	31.38	Peak
6	1.645	19.58	13.70	33.28	63.06	29.78	Peak



Project No.: 2402Y99420E-RF-A1

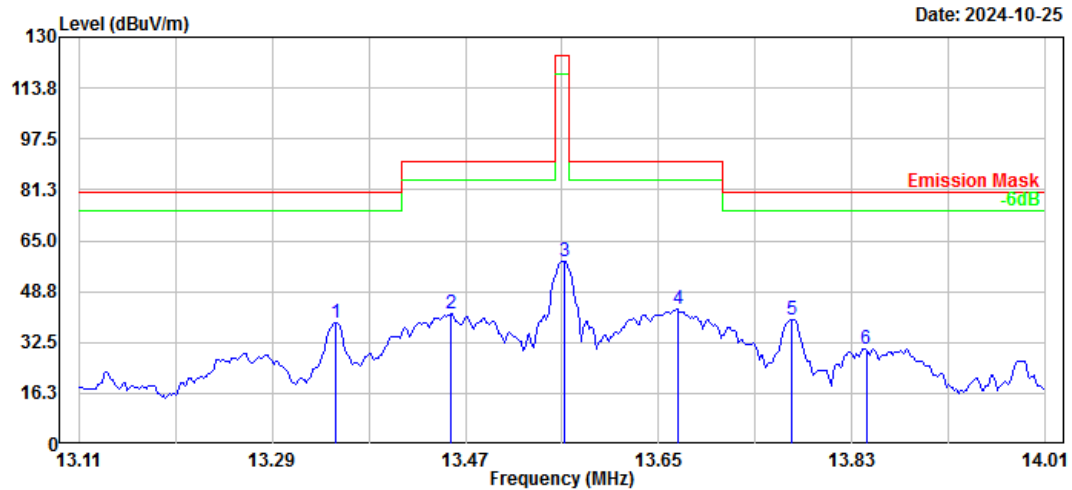
Serial No.: 2T0Q-2

Polarization: Ground-Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



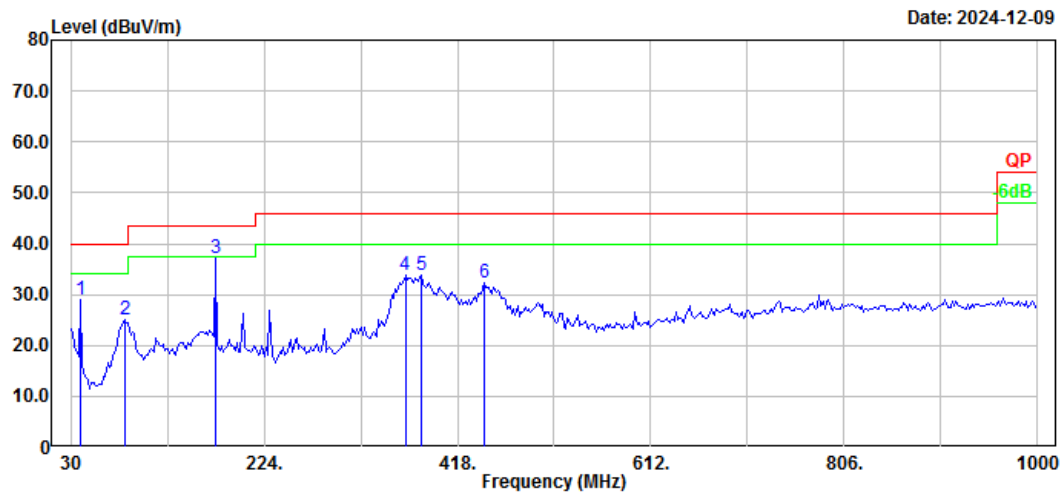
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	34.14	4.57	38.71	80.51	41.80	Peak
2	13.457	37.33	4.55	41.88	90.47	48.59	Peak
3	13.562	54.09	4.53	58.62	124.00	65.38	Peak
4	13.668	38.67	4.51	43.18	90.47	47.29	Peak
5	13.774	35.37	4.51	39.88	80.51	40.63	Peak
6	13.843	26.16	4.49	30.65	80.51	49.86	Peak

**2) 30MHz-1GHz**

M1:

Project No.: 2402Y99420E-RF-A1  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: M1

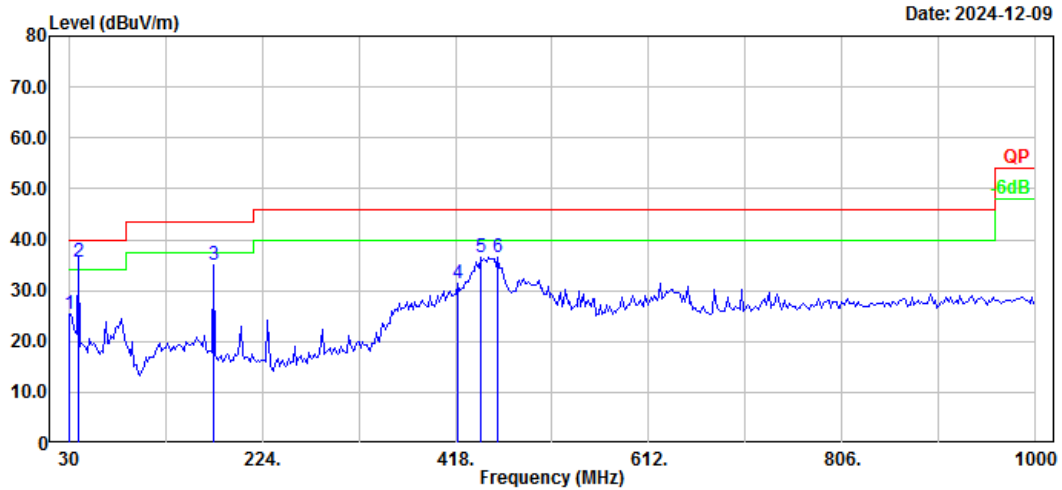
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39.70	39.83	-10.73	29.10	40.00	10.90	Peak
2	84.32	41.60	-16.62	24.98	40.00	15.02	Peak
3	175.50	49.31	-12.10	37.21	43.50	6.29	Peak
4	365.62	41.84	-8.16	33.68	46.00	12.32	Peak
5	381.14	41.47	-7.58	33.89	46.00	12.11	Peak
6	445.16	37.82	-5.65	32.17	46.00	13.83	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Vertical  
Test Mode: Transmitting  
Note: M1

Serial No.: 2T0Q-1  
Tester: Zoo Zou

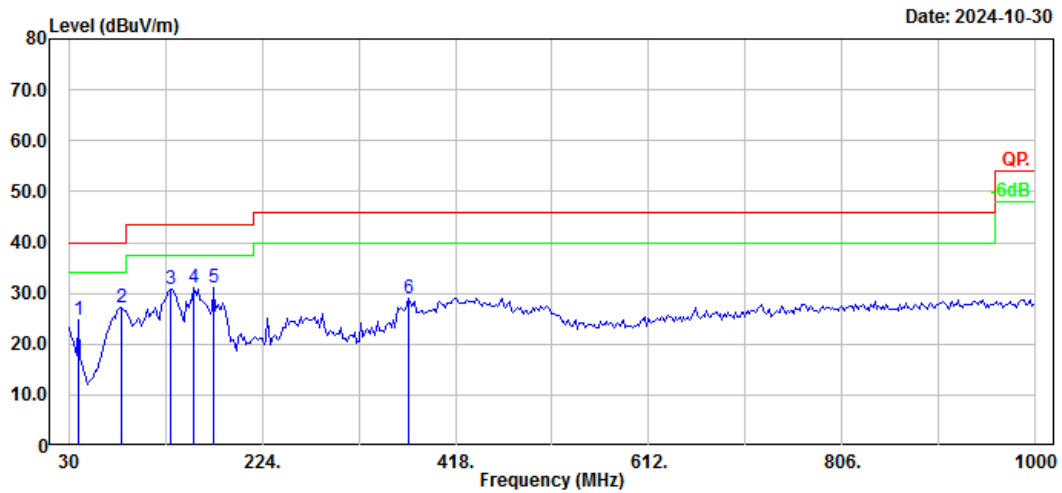


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.00	29.26	-3.80	25.46	40.00	14.54	Peak
2	39.70	46.41	-10.73	35.68	40.00	4.32	QP
3	175.50	47.16	-12.10	35.06	43.50	8.44	Peak
4	419.94	37.83	-6.49	31.34	46.00	14.66	Peak
5	443.22	42.18	-5.70	36.48	46.00	9.52	Peak
6	460.68	41.65	-5.12	36.53	46.00	9.47	Peak

M2:

Project No.: 2402Y99420E-RF-A1  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

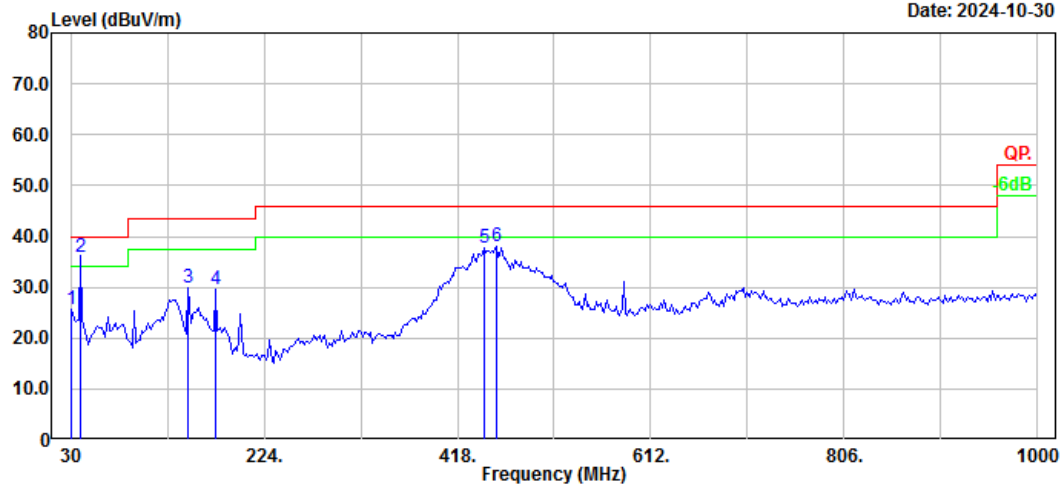


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39.70	35.62	-10.73	24.89	40.00	15.11	Peak
2	82.38	43.60	-16.56	27.04	40.00	12.96	Peak
3	132.82	40.72	-10.03	30.69	43.50	12.81	Peak
4	156.10	42.35	-11.11	31.24	43.50	12.26	Peak
5	175.50	43.10	-12.10	31.00	43.50	12.50	Peak
6	371.44	37.04	-7.94	29.10	46.00	16.90	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Vertical  
Test Mode: Transmitting  
Note: M2

Serial No.: 2T0Q-1  
Tester: Zoo Zou

Date: 2024-10-30

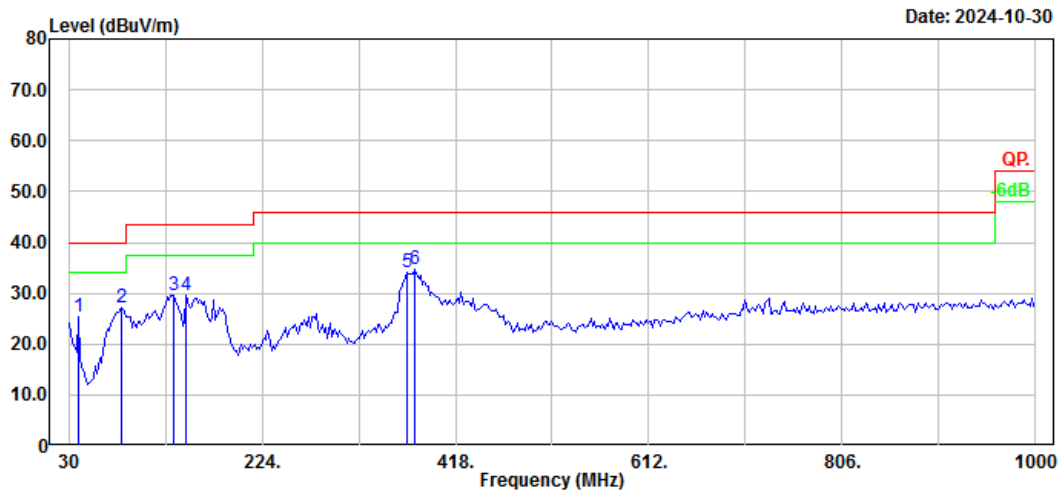


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.00	29.60	-3.80	25.80	40.00	14.20	Peak
2	39.70	46.51	-10.73	35.78	40.00	4.22	QP
3	148.34	40.82	-10.96	29.86	43.50	13.64	Peak
4	175.50	41.77	-12.10	29.67	43.50	13.83	Peak
5	445.16	43.43	-5.65	37.78	46.00	8.22	Peak
6	456.80	43.41	-5.25	38.16	46.00	7.84	Peak

M3:

Project No.: 2402Y99420E-RF-A1  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: M3

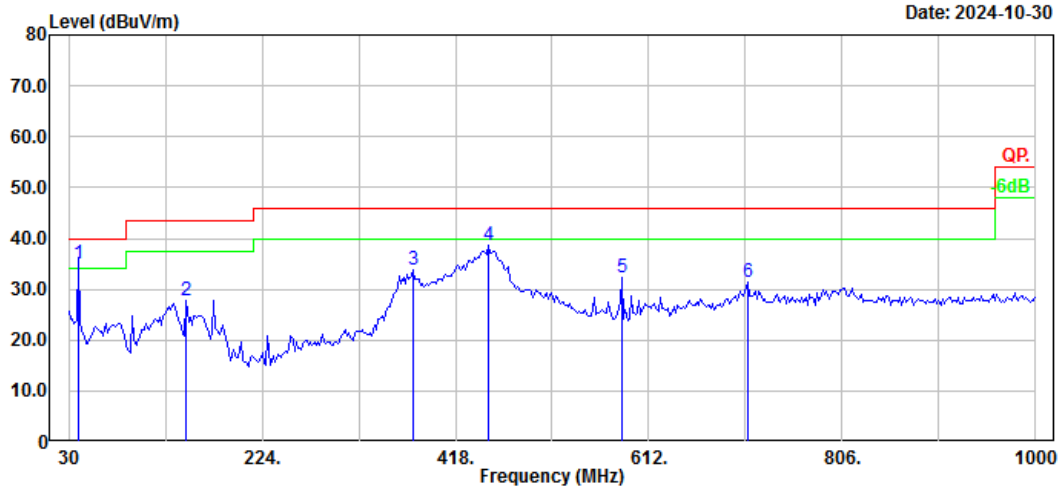
Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39.70	36.16	-10.73	25.43	40.00	14.57	Peak
2	82.38	43.72	-16.56	27.16	40.00	12.84	Peak
3	134.76	39.77	-10.14	29.63	43.50	13.87	Peak
4	148.34	40.45	-10.96	29.49	43.50	14.01	Peak
5	369.50	42.07	-8.01	34.06	46.00	11.94	Peak
6	377.26	42.48	-7.72	34.76	46.00	11.24	Peak

Project No.: 2402Y99420E-RF-A1  
Polarization: Vertical  
Test Mode: Transmitting  
Note: M3

Serial No.: 2T0Q-1  
Tester: Zoo Zou

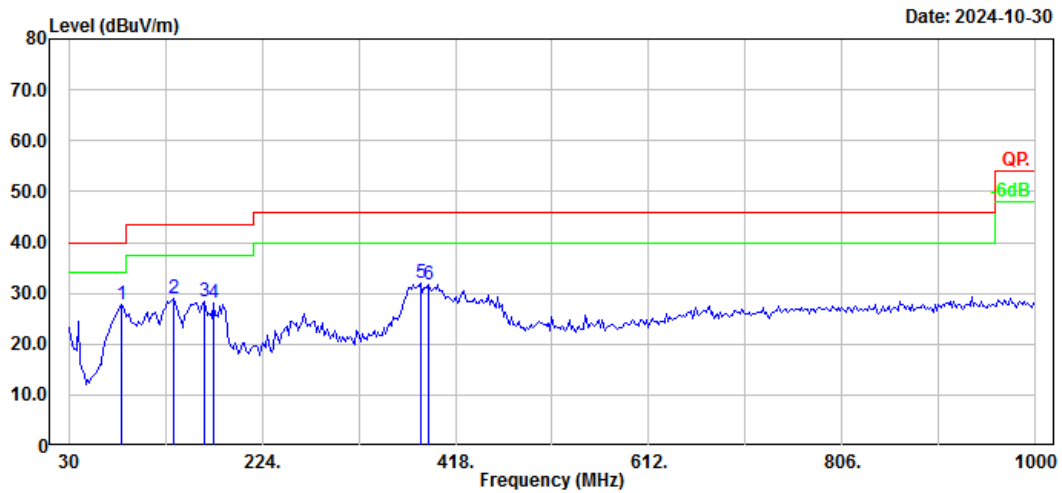


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39.70	45.81	-10.73	35.08	40.00	4.92	QP
2	148.34	38.86	-10.96	27.90	43.50	15.60	Peak
3	375.32	41.67	-7.79	33.88	46.00	12.12	Peak
4	450.98	44.01	-5.45	38.56	46.00	7.44	Peak
5	584.84	35.35	-3.07	32.28	46.00	13.72	Peak
6	710.94	32.34	-1.07	31.27	46.00	14.73	Peak

M4:

Project No.: 2402Y99420E-RF-A1  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: M4

Serial No.: 2T0Q-1  
Tester: Zoo Zou

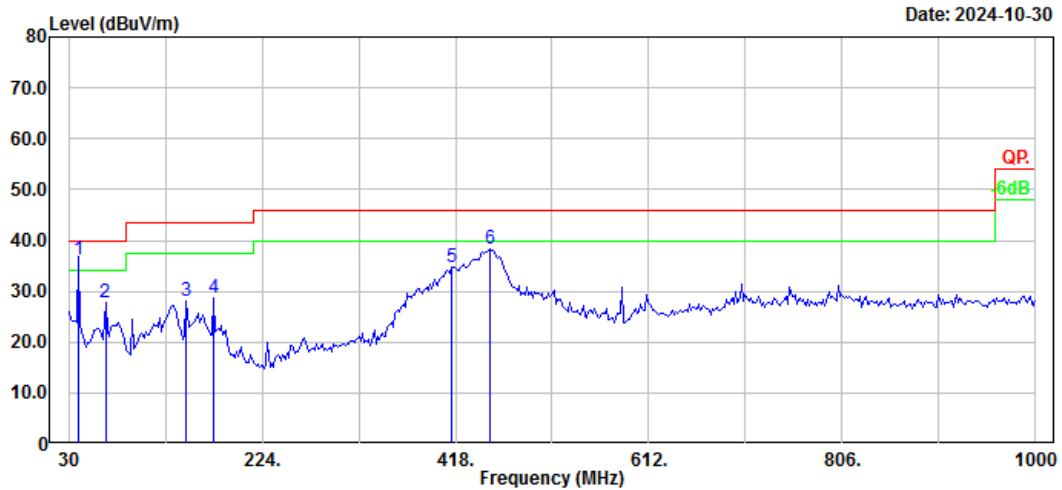


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	82.38	44.22	-16.56	27.66	40.00	12.34	Peak
2	134.76	39.07	-10.14	28.93	43.50	14.57	Peak
3	165.80	39.81	-11.51	28.30	43.50	15.20	Peak
4	175.50	40.12	-12.10	28.02	43.50	15.48	Peak
5	383.08	39.49	-7.50	31.99	46.00	14.01	Peak
6	390.84	38.99	-7.22	31.77	46.00	14.23	Peak



Project No.: 2402Y99420E-RF-A1  
Polarization: Vertical  
Test Mode: Transmitting  
Note: M4

Serial No.: 2T0Q-1  
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39.70	46.81	-10.73	36.08	40.00	3.92	QP
2	66.86	44.06	-16.42	27.64	40.00	12.36	Peak
3	148.34	38.98	-10.96	28.02	43.50	15.48	Peak
4	175.50	40.92	-12.10	28.82	43.50	14.68	Peak
5	414.12	41.35	-6.63	34.72	46.00	11.28	Peak
6	452.92	43.72	-5.38	38.34	46.00	7.66	Peak

M5:

Project No.: 2402Y99420E-RF-A1

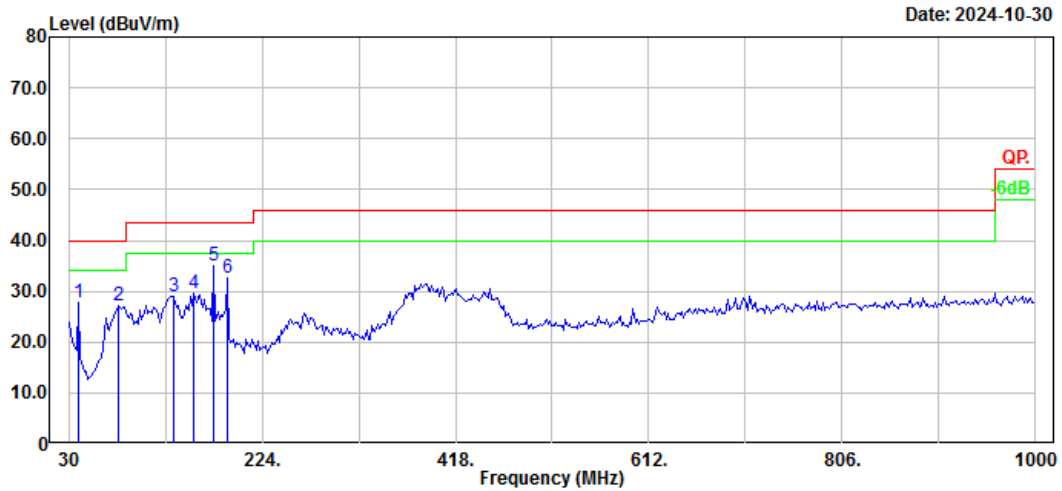
Serial No.: 2T0Q-2

Polarization: Horizontal

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39.70	38.63	-10.73	27.90	40.00	12.10	Peak
2	80.44	43.55	-16.50	27.05	40.00	12.95	Peak
3	134.76	39.26	-10.14	29.12	43.50	14.38	Peak
4	156.10	40.79	-11.11	29.68	43.50	13.82	Peak
5	175.50	47.11	-12.10	35.01	43.50	8.49	Peak
6	189.08	44.77	-12.15	32.62	43.50	10.88	Peak

Project No.: 2402Y99420E-RF-A1

Serial No.: 2T0Q-2

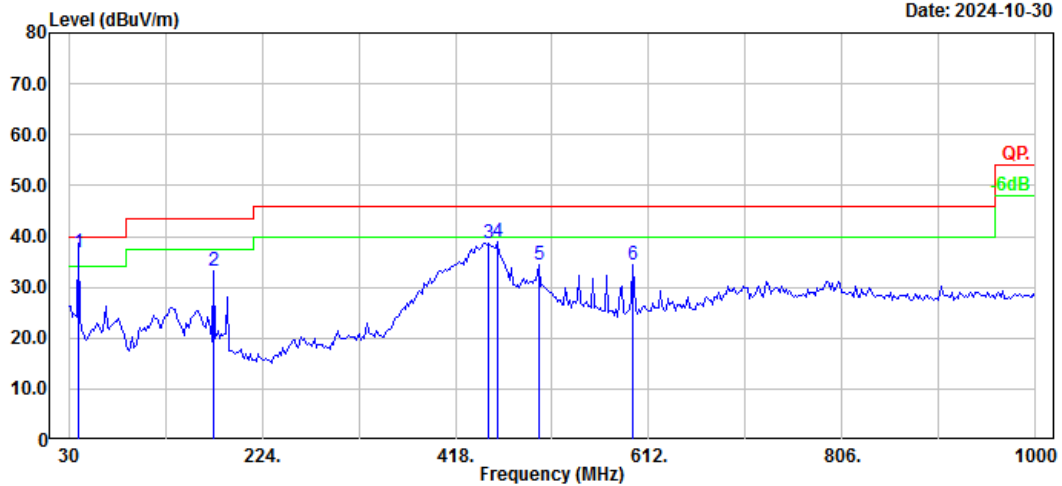
Polarization: Vertical

Tester: Zoo Zou

Test Mode: Transmitting

Note: M5(Configuration 2#+Adapter 4#+Battery 5#)

Date: 2024-10-30



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39.70	47.71	-10.73	36.98	40.00	3.02	QP
2	175.50	45.23	-12.10	33.13	43.50	10.37	Peak
3	450.98	44.04	-5.45	38.59	46.00	7.41	Peak
4	460.68	44.18	-5.12	39.06	46.00	6.94	Peak
5	501.42	38.62	-4.26	34.36	46.00	11.64	Peak
6	596.48	37.39	-2.96	34.43	46.00	11.57	Peak

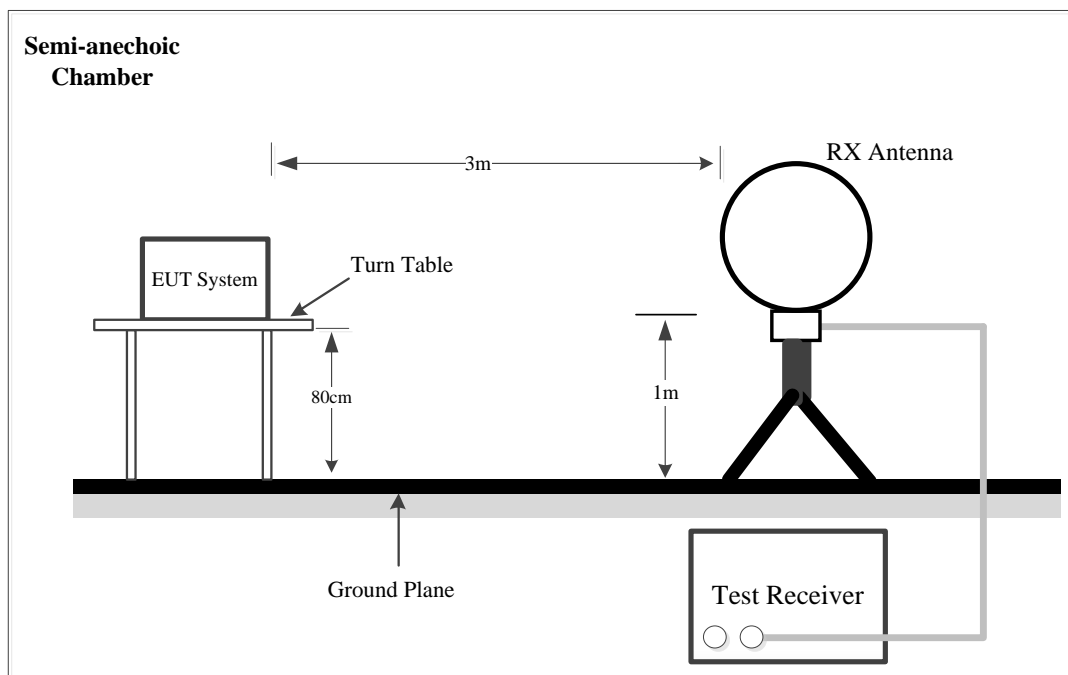
### 4.3 20 dB Emission Bandwidth

#### 4.3.1 Applicable Standard

FCC §15.215

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through §15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of band operation.

#### 4.3.2 EUT Setup



#### 4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 6.9.2

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.5.2
- Steps a) through c) might require iteration to adjust within the specified tolerances.
- The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target

“-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.

f) Set detection mode to peak and trace mode to max hold.

g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

h) Determine the “-xx dB down amplitude” using  $[(\text{reference value}) - \text{xx}]$ . Alternatively, this calculation may be made by using the marker-delta function of the instrument.

i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

#### 4.3.4 Test Data

Serial Number:	2TOQ-1	Test Date:	2024/10/25
Test Site:	Chamber 10m	Test Mode:	Transmitting
Tester:	Zoo Zou	Test Result:	Pass

### Environmental Conditions:

Temperature: (°C)	25.5	Relative Humidity: (%)	50	ATM Pressure: (kPa)	100.9
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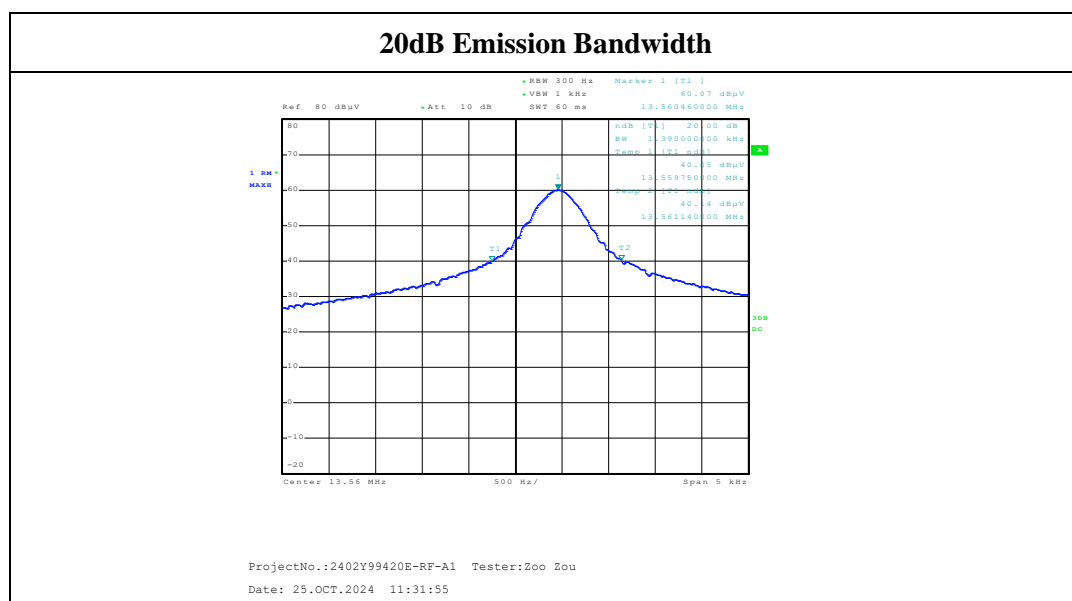
### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25

*\* **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:**

Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	1.39



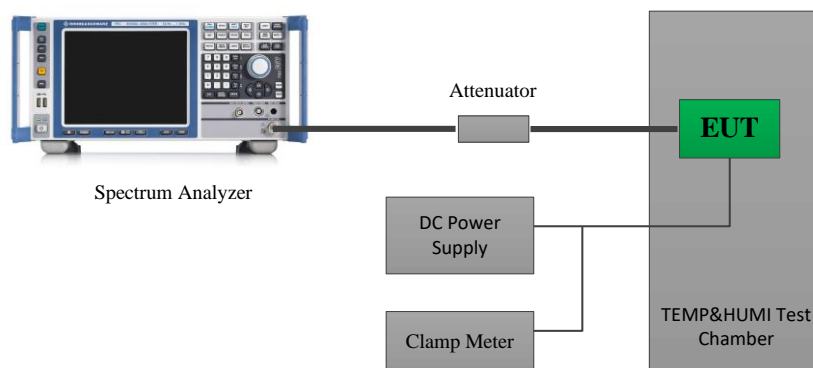
## 4.4 Frequency Stability

### 4.4.1 Applicable Standard

As per FCC Part 15.225:

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 4.4.2 EUT Setup



### 4.4.3 Test Procedure

According to ANSI C63.10-2013 Section 6.8

#### Frequency stability with respect to ambient temperature

- Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
  - Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.
- NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.
- Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
  - Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

- e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- g) Measure the frequency at each of frequencies specified in 5.6.
- h) Switch OFF the EUT but do not switch OFF the oscillator heater.
- i) Lower the chamber temperature by not more than 10 °C, and allow the temperature inside the chamber to stabilize.
- j) Repeat step f) through step i) down to the lowest specified temperature.

#### **Frequency stability when varying supply voltage**

Unless otherwise specified, these tests shall be made at ambient room temperature (+15 °C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.  
NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.
- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage as described in 5.13.



**4.4.4 Test Result**

Serial Number:	2TOQ-1	Test Date:	2024/10/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoo Zou	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.5	Relative Humidity: (%)	50	ATM Pressure: (kPa)	100.9
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2024/9/6	2025/9/5
All-sun	Clamp Meter	EM305A	8348897	2024/8/16	2025/8/15
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	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).*

**Test Data:**

<b>f<sub>o</sub> = 13.56 MHz</b>				
Temperature	Voltage	Measured frequency	Frequency Error	Limit
°C	V <sub>DC</sub>	MHz	Hz	Hz
-30	7.2	13.56033	330	±1356
-20		13.56051	510	±1356
-10		13.56045	450	±1356
0		13.56058	580	±1356
10		13.56052	520	±1356
20		13.56046	460	±1356
30		13.56041	410	±1356
40		13.56036	360	±1356
50		13.56087	870	±1356
20	6.95	13.56038	380	±1356
20	8.4	13.56054	540	±1356

Note: the voltage range was declared by manufacturer▲.

## **4.5 Antenna Requirement**

### **4.5.1 Applicable Standard**

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **4.5.2 Judgment**

Please refer to the Antenna Information detail in Section 1.3.

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2402Y99420E-RF-A1-EXP EUT external photographs and 2402Y99420E-RF-A1-INP EUT internal photographs.

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## **EXHIBIT B - TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2402Y99420E-RF-00CA1-TSP test setup photographs.

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**EXHIBIT C - RF EXPOSURE EVALUATION**

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**Applicable Standard**

According to KDB447498 D01 General RF Exposure Guidance v06: 4.3. General SAR test exclusion guidance

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For *test separation distances*  $> 50$  mm and  $< 200$  mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f_{\text{(MHz)}})]$
- 2) For *test separation distances*  $\leq 50$  mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

**Measurement Result:**

For NFC, the power of EUT: E Field@3m is 64.44 dBuV/m = -30.76dBm (0.0008mW)

Note:  $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$  for  $d = 3$  m.

SAR test exclusion threshold for NFC(13.56MHz) separation distance  $< 50$ mm

$$= [474 * (1 + \log(100/f_{\text{(MHz)}}))] / 2$$

$$= 443\text{mW}$$

$$> 0.0008\text{mW}$$

**Result: Compliant.**

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