

TEST REPORT

Applicant: INGENICO

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Product Name: Smart POS Terminal

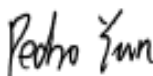
FCC ID: XKB-DX8CL4GWB2

Standard(s): 47 CFR Part 15, Subpart C (15.247)
ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

Report Number: 2502P42842E-RF-00A

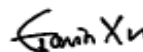
Report Date: 2025/3/28

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	2502P42842E-RF-00A	Original Report	2025/3/28

1. GENERAL INFORMATION

1.1 General Description of Equipment under Test

EUT Name:	Smart POS Terminal
EUT Model:	AXIUM DX8000
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted) ▲:	10.888dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	DC 5V from adapter or DC 7.2V from battery
Serial Number:	2XVR-1 (For RF Conducted Test) 2XVR-10 (For Radiated spurious emission and AC line conducted emission tests)
EUT Received Date:	2025/1/22
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	XIAMEN KELI ELECTRONICS CO.,LTD.	SW-0983	Input: 100-240Vac~50/60Hz 0.5A Output: 5.0Vdc 2.0A

1.3 Antenna Information Detail ▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
IFA	50	2400-2500MHz	-0.32dBi
The design of compliance with §15.203:			
<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

Standard(s) Section	Description of Test	Result
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth	Compliant*
FCC §15.247(a)(1)	Channel Separation	Compliant*
FCC §15.247(a)(1)(iii)	Number Of Hopping Frequency	Compliant*
FCC §15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	Compliant*
FCC §15.247(b)(1)	Maximum Conducted Output Power	Reporting
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant*
FCC §15.203	Antenna Requirement	Compliant

Note 1:

For AC line conducted emissions and Radiated Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum output power mode and channel was tested.

Note2:

Compliant*: The device built in a certified module, model:INGE808-NA, FCC ID: XKB-INGE808NA, per spot check, the RF parameters are identical with the original module report, therefore, the RF conducted test items please refer to the module report: TCWA24060013402 ▲, which was issued by Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. on 2024/10/14. (according to KDB 996369 D02 Module Q&A v02r02, Answer 1 b))

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 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
...
...
...	...	78	2480
39	2441	/	/

Note: The above frequencies in bold were performed the test.

3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

EUT Exercise Software:	QRCT3		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:			
Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
GFSK	9	9	9
$\pi/4$ -DQPSK	9	9	9
8DPSK	9	9	9

3.3 Support Equipment List and Details

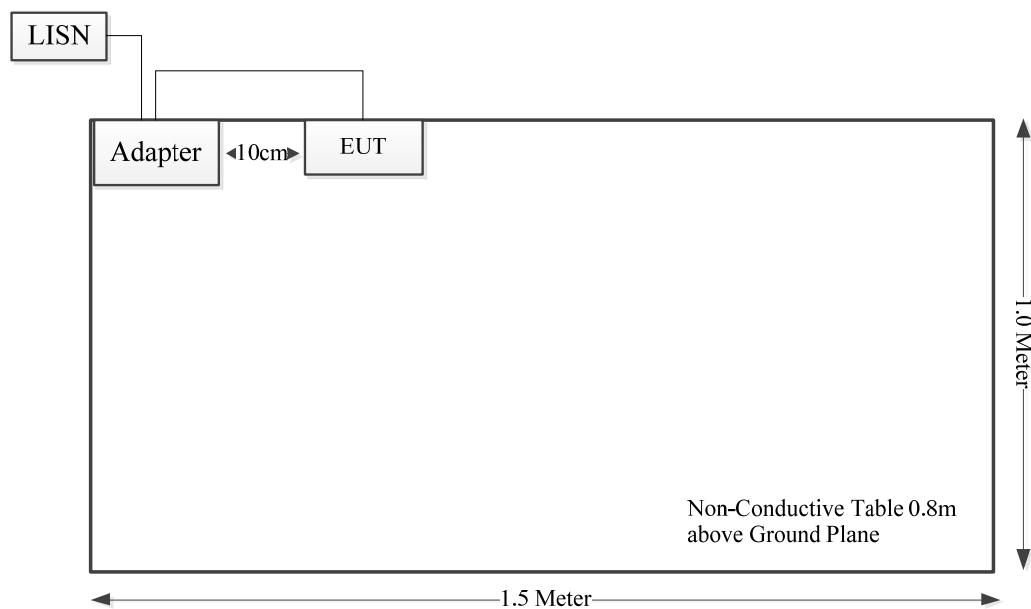
Manufacturer	Description	Model	Serial Number
/	/	/	/

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

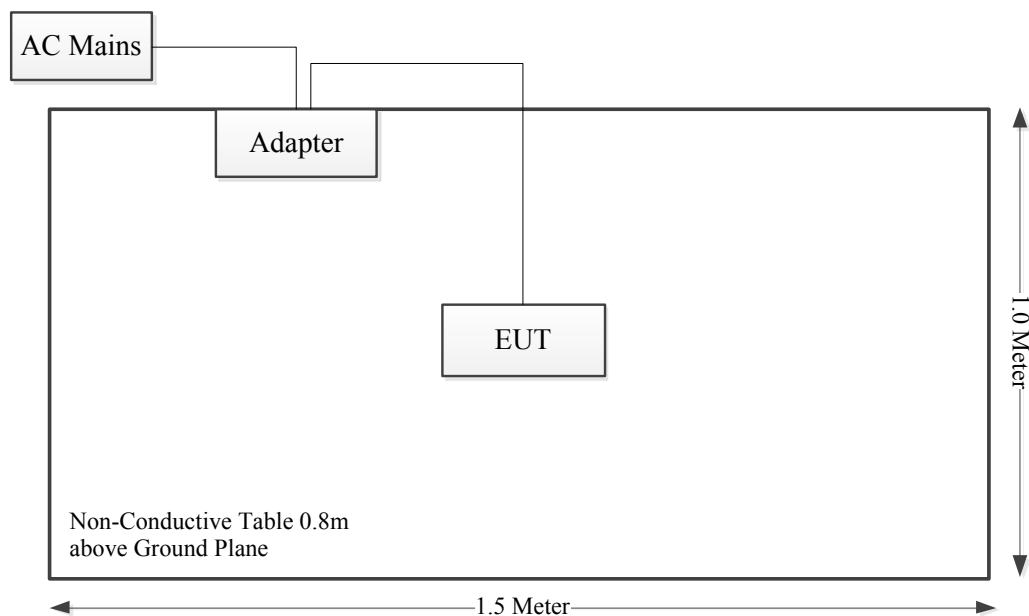
3.5 Block Diagram of Test Setup

AC line conducted emissions:

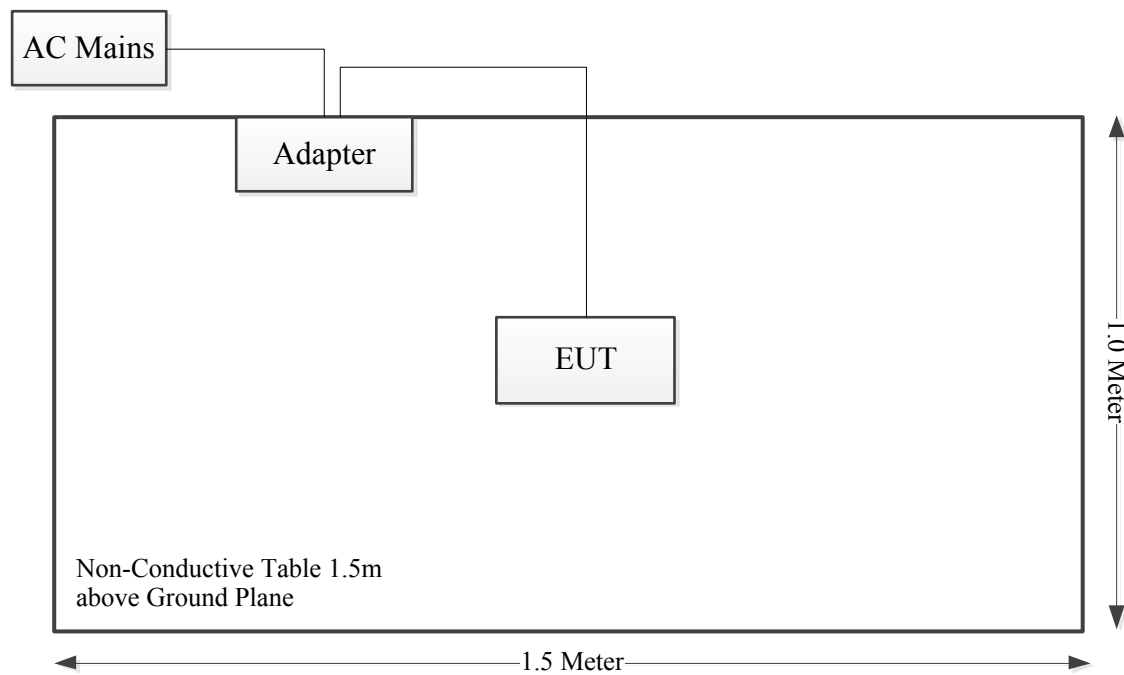


Spurious Emissions:

Below 1GHz:



Above 1GHz:



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	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 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	±2.47 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

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 μ 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 μ 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:

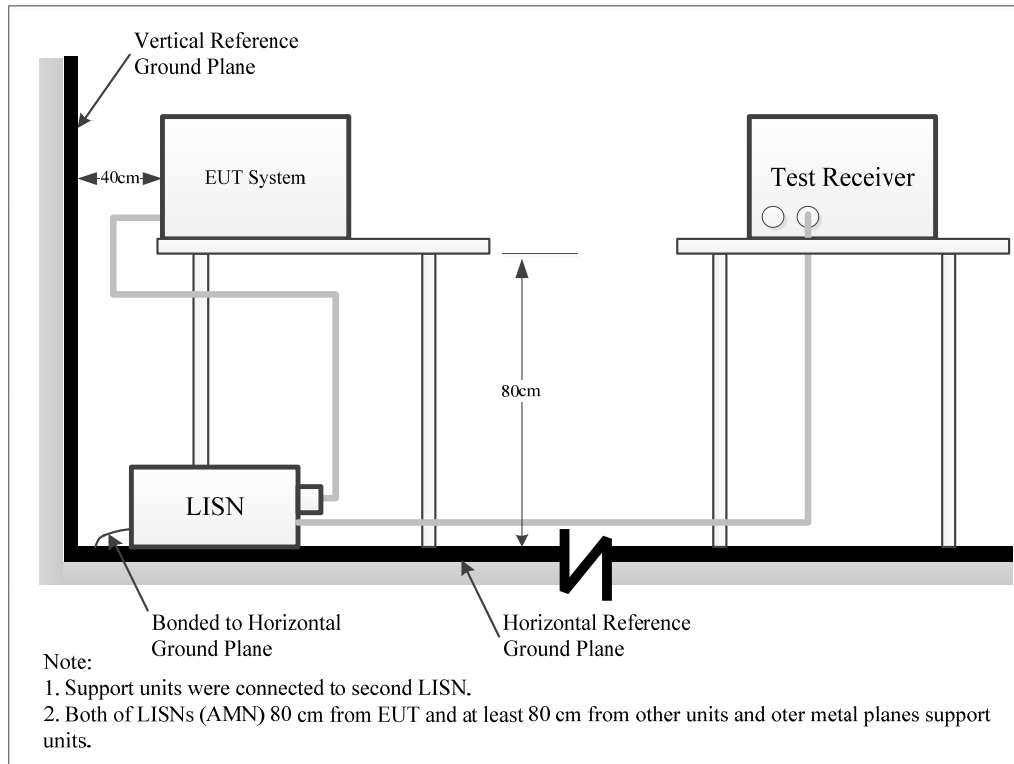
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ 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

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 Result

Please refer to section 5.1.

4.2 Radiated Spurious Emissions

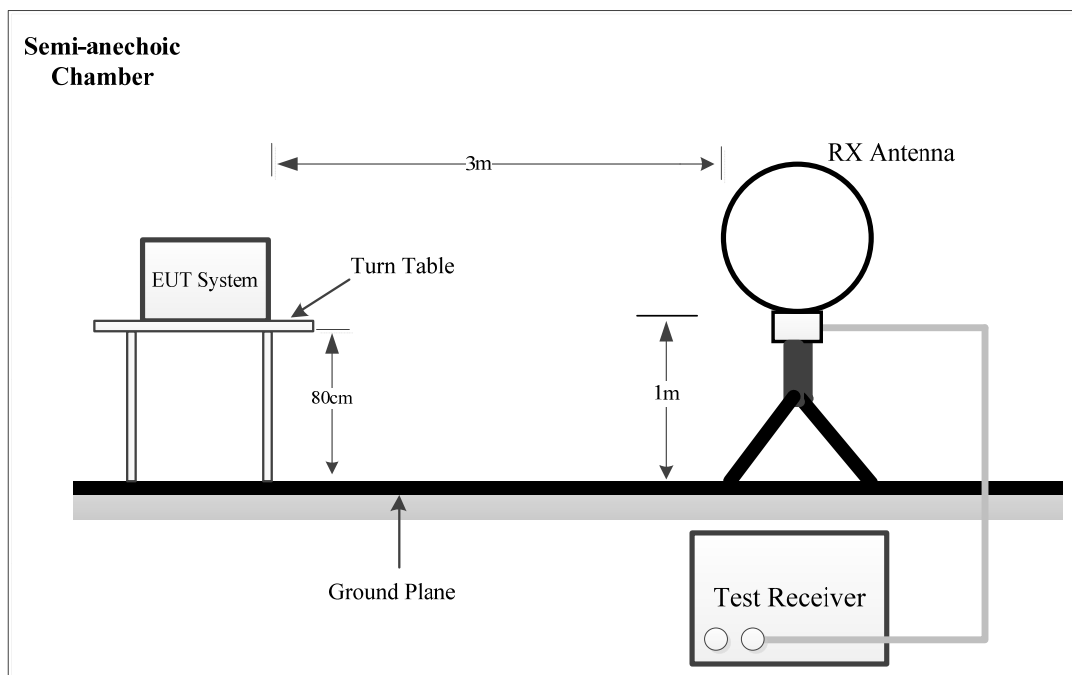
4.2.1 Applicable Standard

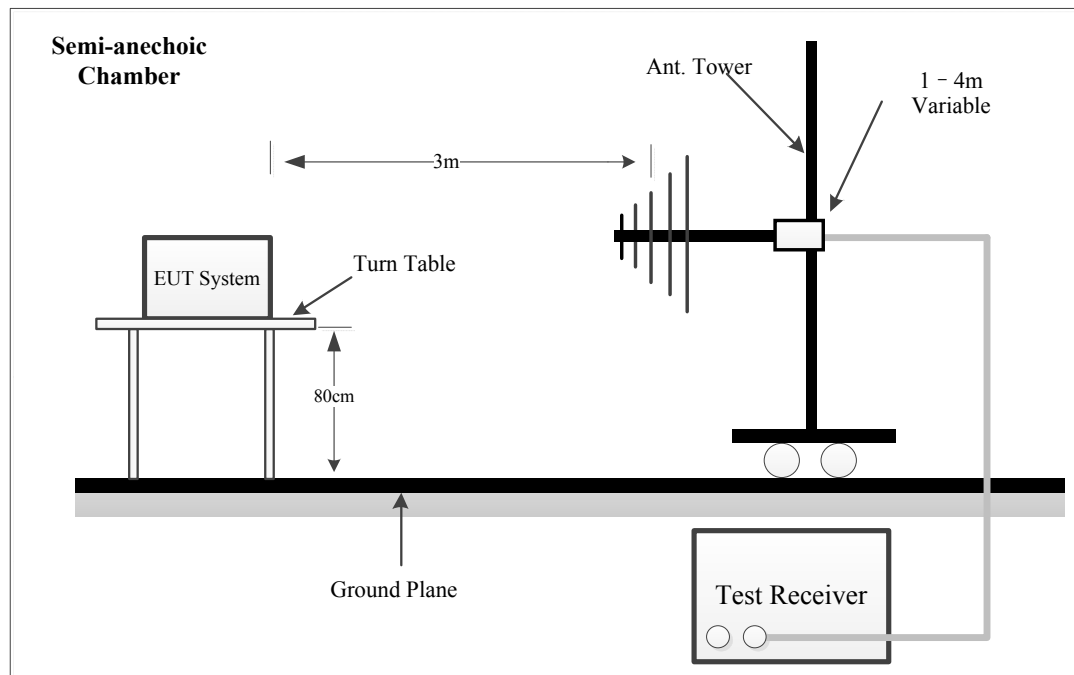
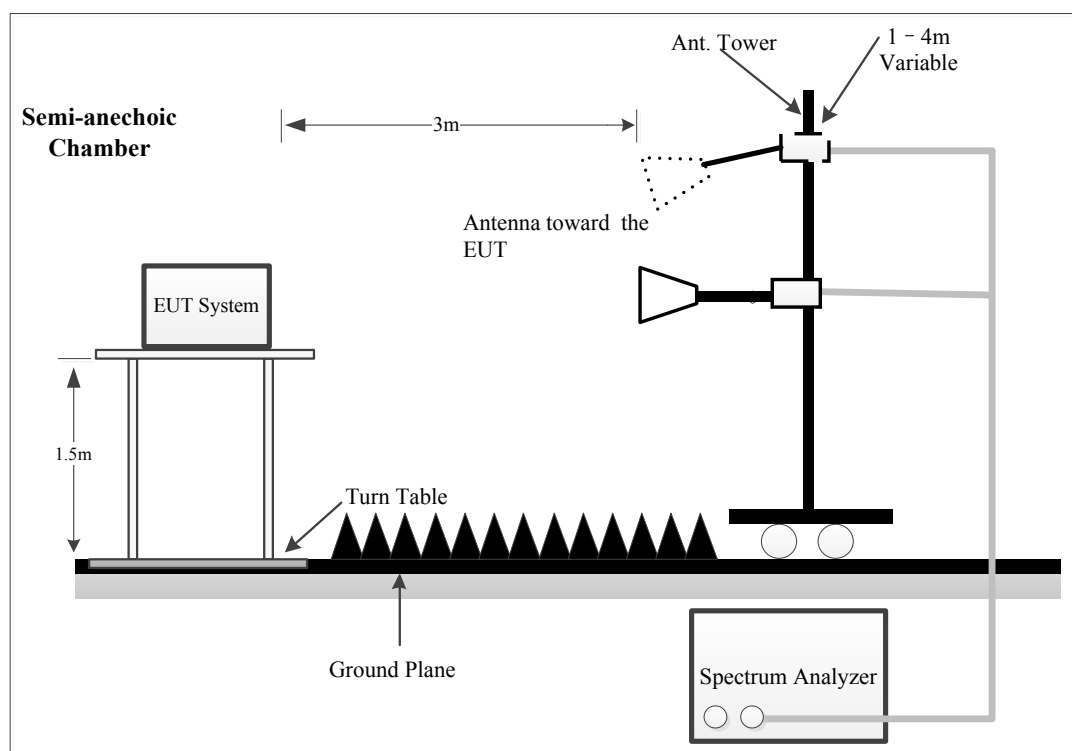
FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:**Above 1GHz:**

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits.

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

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

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz-150 kHz	QP/AV	300 Hz	1 kHz	200 Hz	QP/AV
150 kHz-30 MHz	QP/AV	10 kHz	30 kHz	9 kHz	QP/AV
30 MHz-1000 MHz	Peak	100 kHz	300 kHz	/	PK
	QP	/	/	120 kHz	QP

Above 1GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	10 Hz	PK

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 required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

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

Please refer to section 5.2.

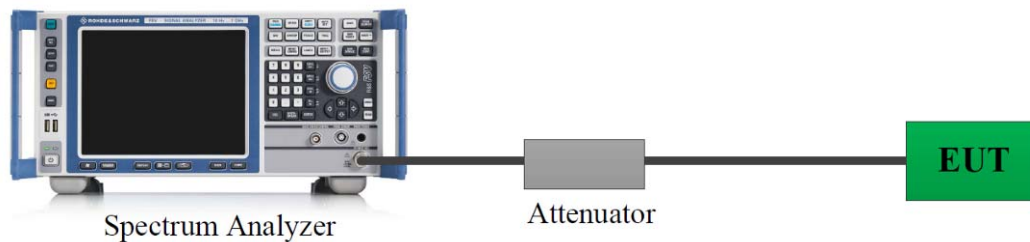
4.3 Maximum Conducted Output Power

4.3.1 Applicable Standard

FCC §15.247 (b)(1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt.
For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation, Offset the Insertion loss of the RF cable, DC Block/ Attenuator into the spectrum analyzer. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW \geq RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

4.3.4 Test Result

Please refer to section 5.3.

4.4 Antenna Requirement

4.4.1 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.

4.4.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. TEST DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	2XVR-10	Test Date:	2025/2/13
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.8	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.4
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Test Equipment List and Details:

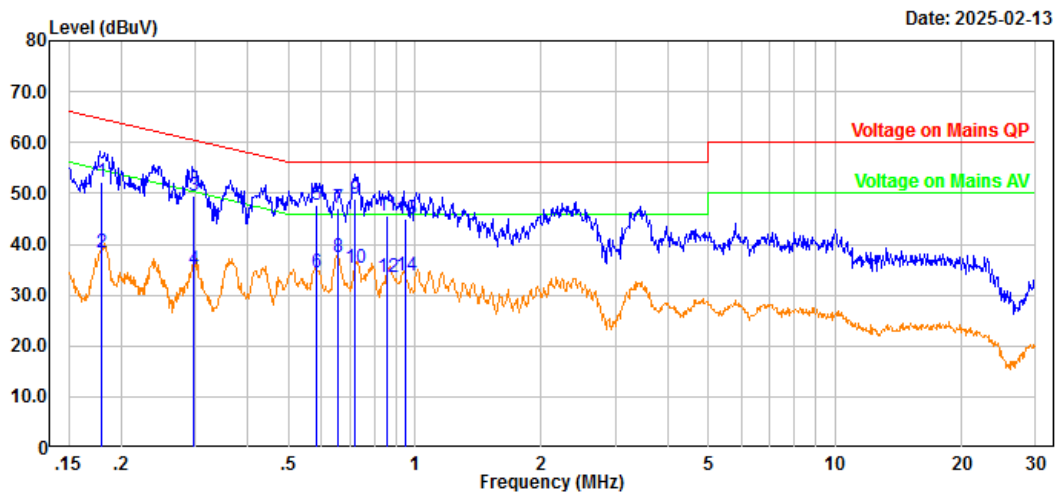
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

* 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).

Note: The maximum output power mode: 3EDR Middle channel was tested.

Project No.: 2502P42842E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9KHz PK/AV

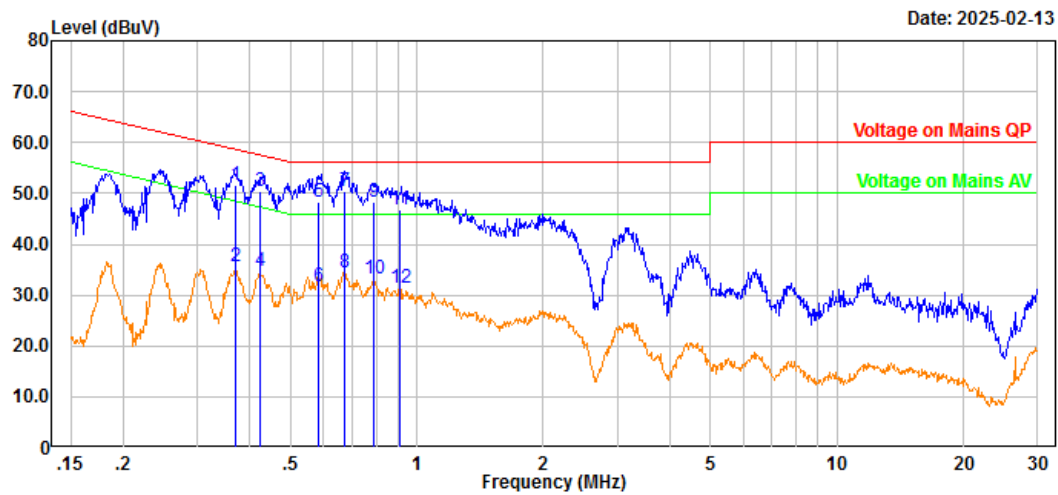
Serial No.: 2XVR-10
Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.18	41.33	10.81	52.14	64.48	12.34	QP
2	0.18	27.52	10.81	38.33	54.48	16.15	Average
3	0.30	38.78	10.82	49.60	60.34	10.74	QP
4	0.30	24.34	10.82	35.16	50.34	15.18	Average
5	0.58	36.88	10.82	47.70	56.00	8.30	QP
6	0.58	23.64	10.82	34.46	46.00	11.54	Average
7	0.65	36.35	10.84	47.19	56.00	8.81	QP
8	0.65	26.70	10.84	37.54	46.00	8.46	Average
9	0.72	37.96	10.86	48.82	56.00	7.18	QP
10	0.72	24.37	10.86	35.23	46.00	10.77	Average
11	0.86	34.78	10.86	45.64	56.00	10.36	QP
12	0.86	22.65	10.86	33.51	46.00	12.49	Average
13	0.95	34.11	10.86	44.97	56.00	11.03	QP
14	0.95	23.07	10.86	33.93	46.00	12.07	Average

Project No.: 2502P42842E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9KHz PK/AV

Serial No.: 2XVR-10
Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.37	40.75	10.77	51.52	58.52	7.00	QP
2	0.37	24.82	10.77	35.59	48.52	12.93	Average
3	0.43	39.52	10.76	50.28	57.34	7.06	QP
4	0.43	23.89	10.76	34.65	47.34	12.69	Average
5	0.58	37.52	10.72	48.24	56.00	7.76	QP
6	0.58	20.89	10.72	31.61	46.00	14.39	Average
7	0.67	39.62	10.75	50.37	56.00	5.63	QP
8	0.67	23.65	10.75	34.40	46.00	11.60	Average
9	0.79	37.43	10.78	48.21	56.00	7.79	QP
10	0.79	22.32	10.78	33.10	46.00	12.90	Average
11	0.91	36.05	10.83	46.88	56.00	9.12	QP
12	0.91	20.69	10.83	31.52	46.00	14.48	Average

5.2 Radiated Spurious Emissions

1) 9kHz-1GHz

Serial Number:	2XVR-10	Test Date:	2025/2/19
Test Site:	Chamber10m	Test Mode:	Transmitting
Tester:	Leesin Xiang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.4	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.7
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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
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.

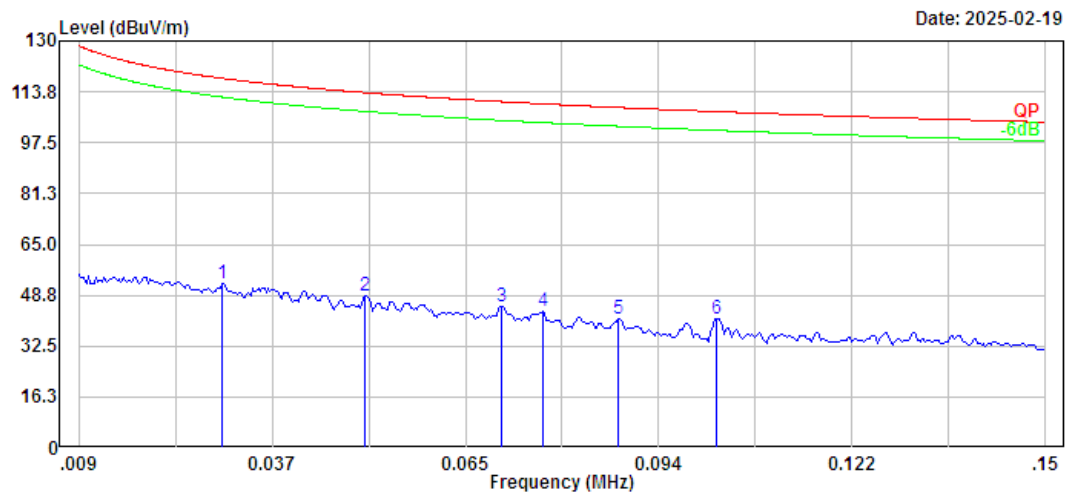
Note: The maximum output power mode: 3EDR Middle channel was tested.

9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Project No.: 2502P42842E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:300Hz VBW:1kHz

Serial No.: 2XVR-10
Tester: Leesin Xiang

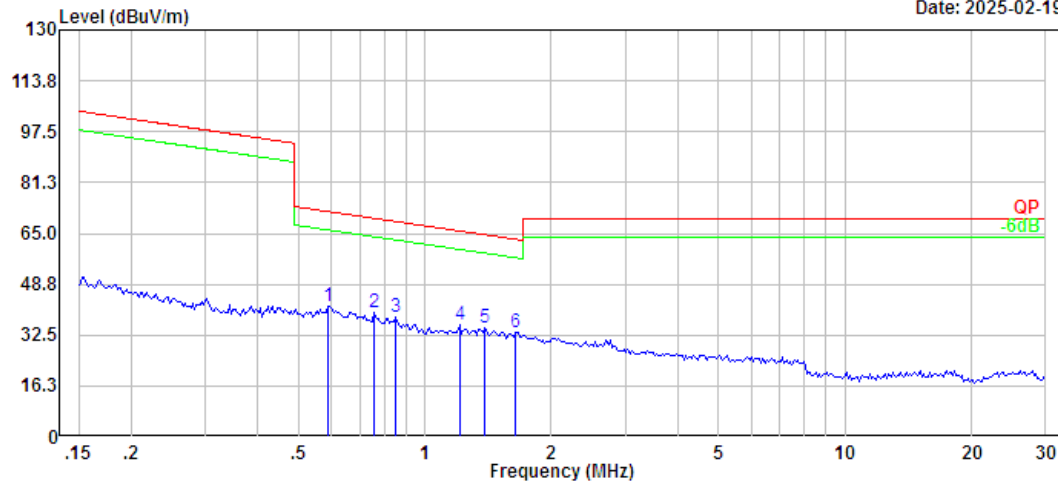


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.030	4.91	47.58	52.49	118.10	65.61	Peak
2	0.051	4.56	43.92	48.48	113.50	65.02	Peak
3	0.071	4.53	40.46	44.99	110.61	65.62	Peak
4	0.077	4.00	39.47	43.47	109.91	66.44	Peak
5	0.088	3.65	37.55	41.20	108.75	67.55	Peak
6	0.102	6.00	35.28	41.28	107.43	66.15	Peak

Project No.: 2502P42842E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:10kHz VBW:30kHz

Serial No.: 2XVR-10
Tester: Leesin Xiang

Date: 2025-02-19



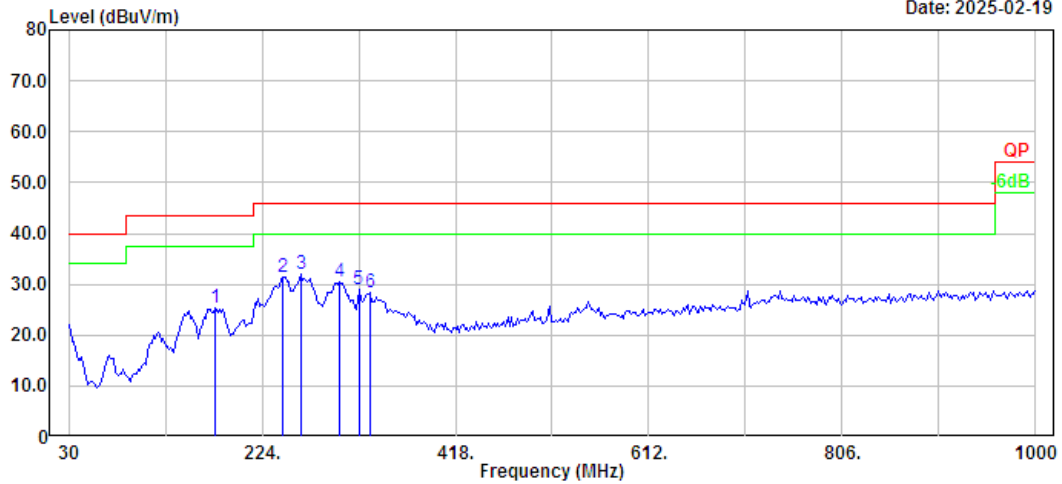
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.589	19.11	22.58	41.69	72.18	30.49	Peak
2	0.759	18.84	20.93	39.77	69.92	30.15	Peak
3	0.853	18.82	19.50	38.32	68.89	30.57	Peak
4	1.210	20.19	15.63	35.82	65.78	29.96	Peak
5	1.388	20.12	14.83	34.95	64.56	29.61	Peak
6	1.645	19.87	13.70	33.57	63.06	29.49	Peak

30MHz-1GHz

Project No.: 2502P42842E-RF
Polarization: Horizontal
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2XVR-10
Tester: Leesin Xiang

Date: 2025-02-19

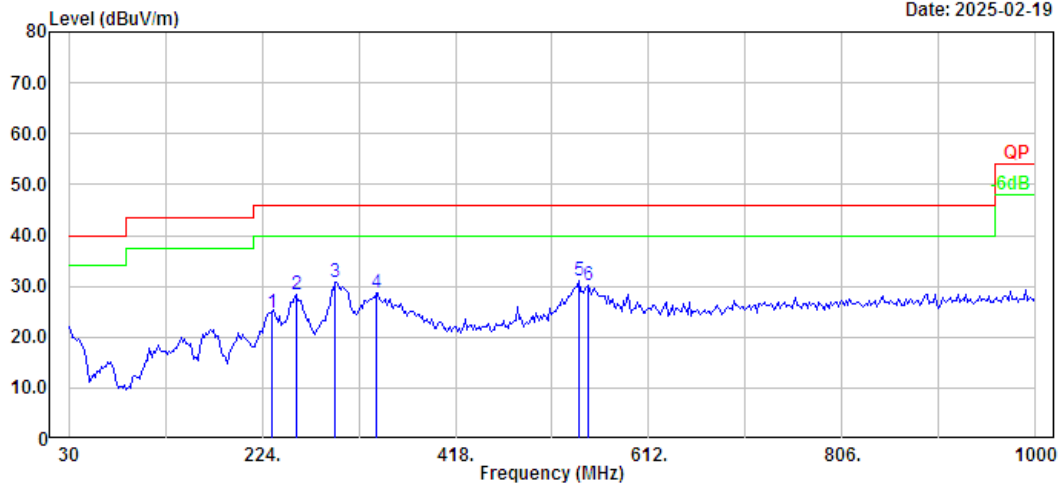


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	177.44	37.42	-12.21	25.21	43.50	18.29	Peak
2	245.34	43.10	-11.57	31.53	46.00	14.47	Peak
3	262.80	42.79	-10.83	31.96	46.00	14.04	Peak
4	301.60	39.89	-9.48	30.41	46.00	15.59	Peak
5	321.00	37.90	-9.05	28.85	46.00	17.15	Peak
6	332.64	37.21	-8.82	28.39	46.00	17.61	Peak

Project No.: 2502P42842E-RF
Polarization: Vertical
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2XVR-10
Tester: Leesin Xiang

Date: 2025-02-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	233.70	36.77	-12.05	24.72	46.00	21.28	Peak
2	258.92	39.47	-11.15	28.32	46.00	17.68	Peak
3	297.72	40.27	-9.53	30.74	46.00	15.26	Peak
4	338.46	37.47	-8.75	28.72	46.00	17.28	Peak
5	542.16	34.53	-3.56	30.97	46.00	15.03	Peak
6	551.86	33.73	-3.41	30.32	46.00	15.68	Peak

2) 1-25GHz:

Serial Number:	2XVR-10	Test Date:	2025/2/25
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Colin Yang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.1	Relative Humidity: (%)	46	ATM Pressure: (kPa)	102.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
Audix	Test Software	E3	191218 V9	N/A	N/A
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

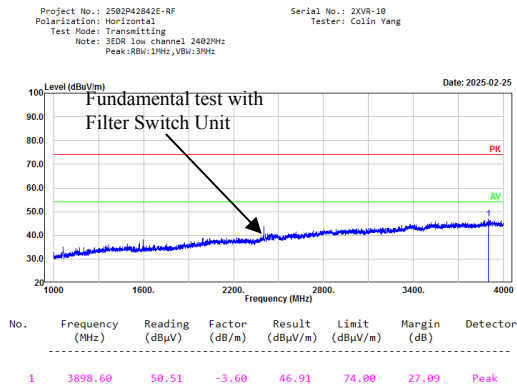
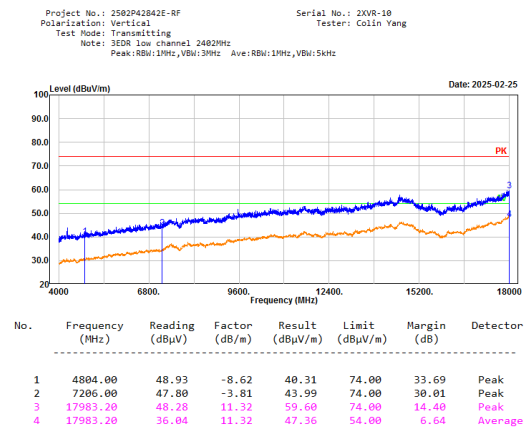
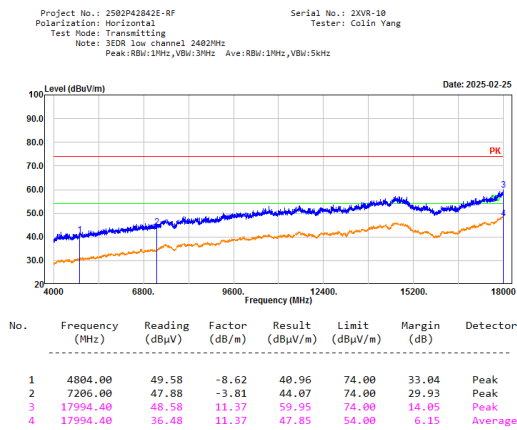
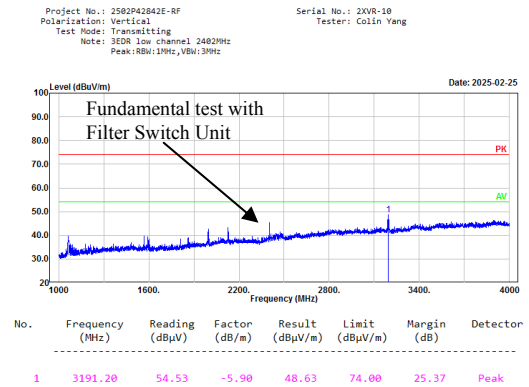
* *Statement of Traceability:* Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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.

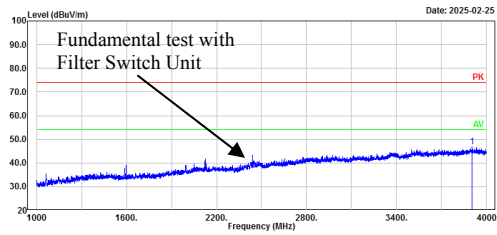
Note: The maximum output power mode: 3EDR(3DH1) mode was tested.
1-18GHz:

3EDR Low Channel, 2402MHz, Horizontal**3EDR Low Channel, 2402MHz, Vertical**

3EDR Middle Channel, 2441MHz, Horizontal

Project No.: 2502P42842E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 3EDR middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2XVR-10
Tester: Colin Yang

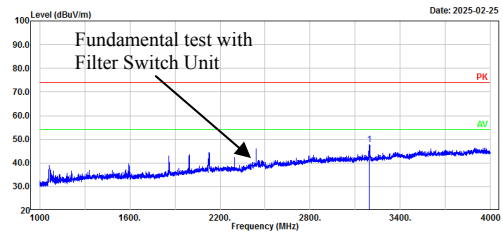


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3902.20	50.37	-3.62	46.75	74.00	27.25	Peak

3EDR Middle Channel, 2441MHz, Vertical

Project No.: 2502P42842E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 3EDR middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz

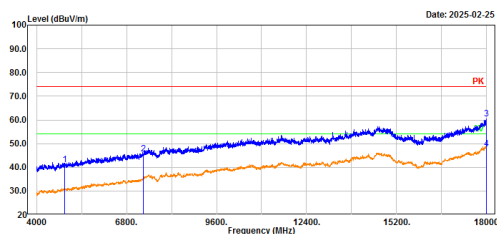
Serial No.: 2XVR-10
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3193.60	53.77	-5.86	47.91	74.00	26.09	Peak

Project No.: 2502P42842E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 3EDR middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

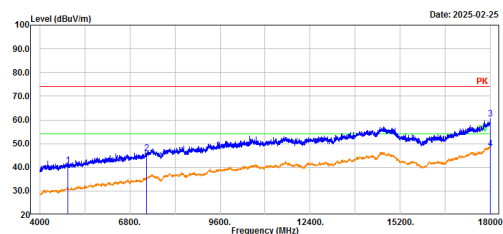
Serial No.: 2XVR-10
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4882.00	49.59	-8.47	41.12	74.00	32.88	Peak
2	7323.00	48.75	-3.19	45.56	74.00	28.44	Peak
3	17988.00	49.09	11.33	60.42	74.00	13.58	Peak
4	17988.00	36.31	11.33	47.64	54.00	6.36	Average

Project No.: 2502P42842E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 3EDR middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 2XVR-10
Tester: Colin Yang



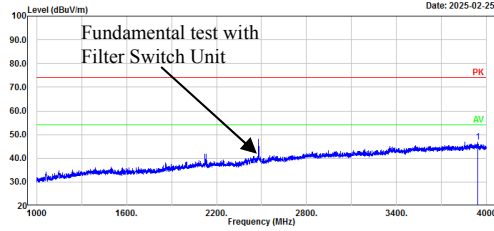
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4882.00	49.21	-8.47	40.74	74.00	33.26	Peak
2	7323.00	49.09	-3.19	45.90	74.00	28.10	Peak
3	17991.60	49.17	11.35	60.52	74.00	13.48	Peak
4	17991.60	36.46	11.35	47.81	54.00	6.19	Average

3EDR High Channel, 2480MHz, Horizontal

Project No.: 2502P42842E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 3EDR high channel 2480MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2XVR-10
Tester: Colin Yang

Date: 2025-02-25



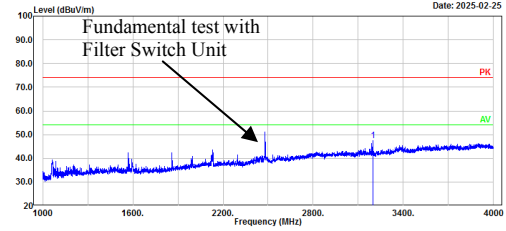
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3943.00	50.51	-3.65	46.86	74.00	27.14	Peak

3EDR High Channel, 2480MHz, Vertical

Project No.: 2502P42842E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 3EDR high channel 2480MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2XVR-10
Tester: Colin Yang

Date: 2025-02-25

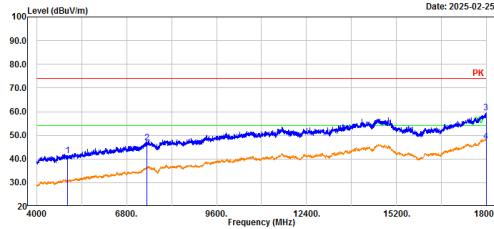


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3196.00	53.40	-5.84	47.56	74.00	26.44	Peak

Project No.: 2502P42842E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 3EDR high channel 2480MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2XVR-10
Tester: Colin Yang

Date: 2025-02-25

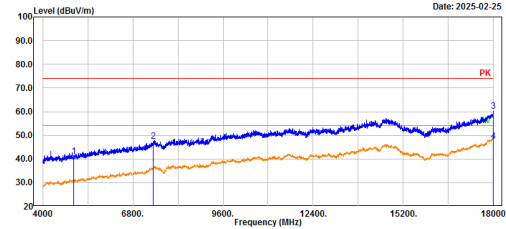


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4968.00	49.82	-8.48	41.34	74.00	32.66	Peak
2	7448.00	49.52	-2.62	46.90	74.00	27.10	Peak
3	17988.40	48.38	11.30	59.68	74.00	14.32	Peak
4	17988.40	36.29	11.30	47.59	54.00	6.41	Average

Project No.: 2502P42842E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 3EDR high channel 2480MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2XVR-10
Tester: Colin Yang

Date: 2025-02-25



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4968.00	49.71	-8.48	41.23	74.00	32.77	Peak
2	7448.00	50.09	-2.62	47.47	74.00	26.53	Peak
3	17991.60	48.67	11.35	60.02	74.00	13.98	Peak
4	17991.60	36.19	11.35	47.54	54.00	6.46	Average

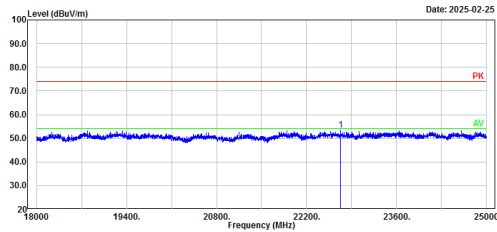
18-25GHz:

No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

3EDR Middle Channel, 2441MHz, Horizontal

Project No.: 2502P42842E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 3EDR middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2XVR-10
Tester: Colin Yang

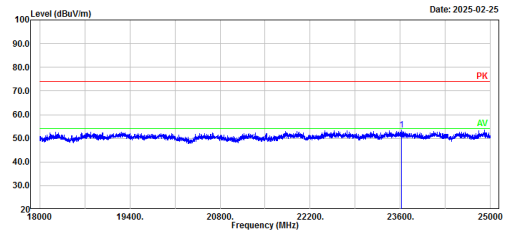


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	22726.00	45.21	8.22	53.43	74.00	20.57	Peak

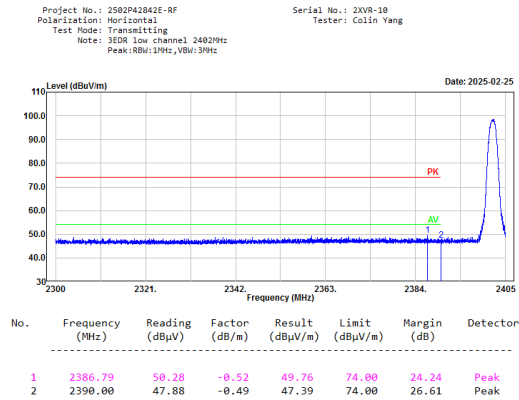
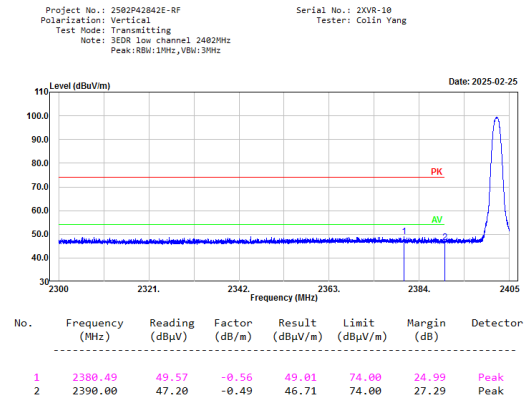
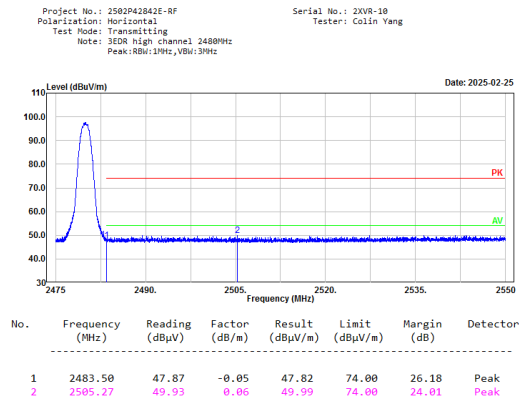
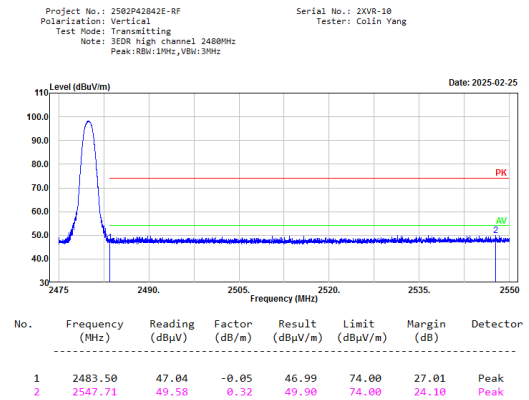
3EDR Middle Channel, 2441MHz, Vertical

Project No.: 2502P42842E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 3EDR middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2XVR-10
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	23621.90	44.84	8.73	53.57	74.00	20.43	Peak

Bandedge:**3EDR, Low Channel, Bandedge, Horizontal****3EDR, Low Channel, Bandedge, Vertical****3EDR, High Channel, Bandedge, Horizontal****3EDR, High Channel, Bandedge, Vertical**

5.3 Spot Check With Maximum Conducted Output Power**Test Information:**

Serial No.:	2XVR-1	Test Date:	2025/02/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	19.2	Relative Humidity: (%)	41	ATM Pressure: (kPa)	101.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM502	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101947	2024/09/05	2025/09/04

** 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).*

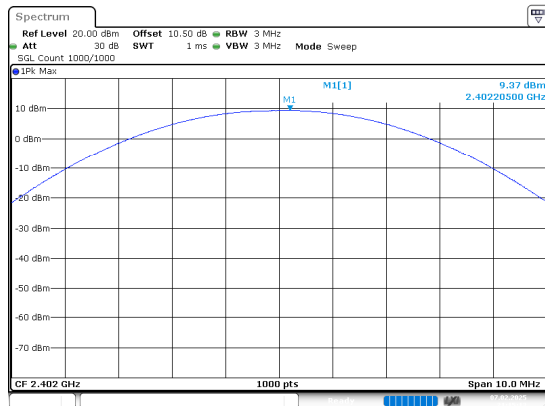
Test Data:

Mode	Channel	Result (dBm)	Limit (dBm)	Verdict
DH1	Low	9.37	21.00	Pass
	Middle	10.31	21.00	Pass
	High	9.41	21.00	Pass
2DH1	Low	9.36	21.00	Pass
	Middle	10.25	21.00	Pass
	High	9.16	21.00	Pass
3DH1	Low	10.06	21.00	Pass
	Middle	10.57	21.00	Pass
	High	9.66	21.00	Pass

Note:

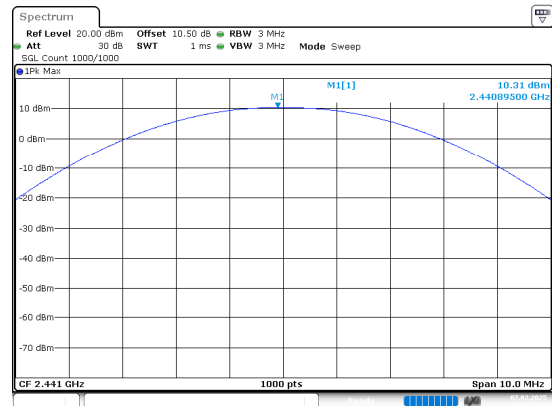
The Spot Check data were similar to the original data.

DH1_Low



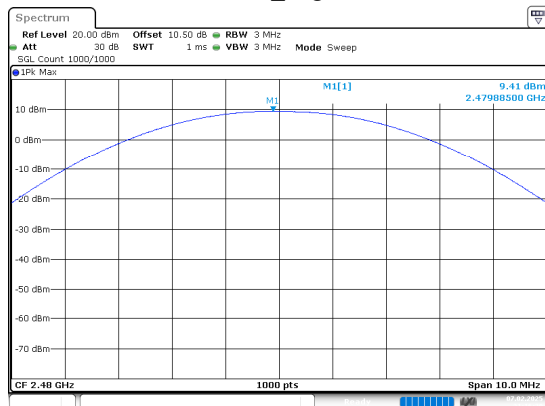
ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:10:13

DH1_Middle



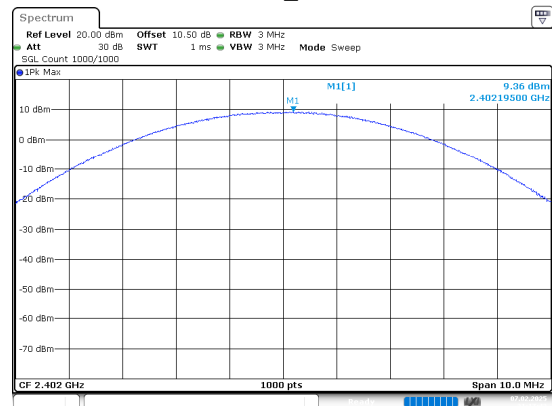
ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 19:27:53

DH1_High



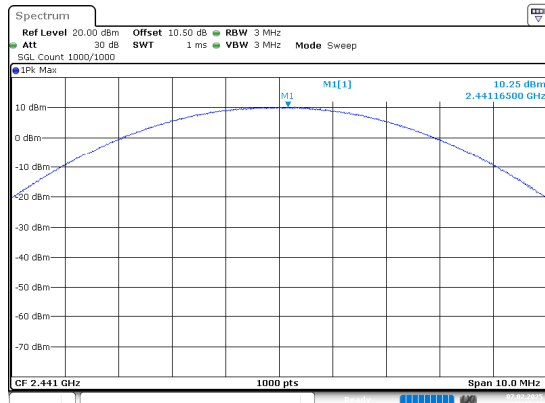
ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:16:40

2DH1_Low



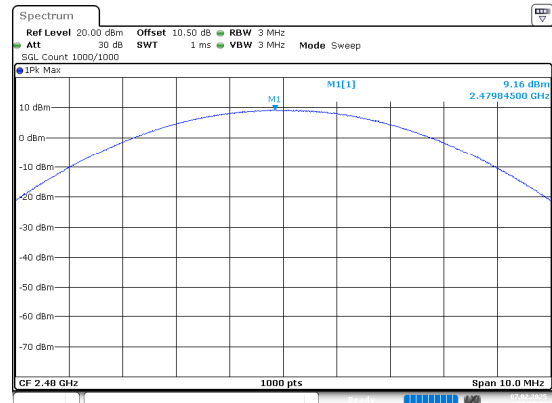
ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:17:42

2DH1_Middle



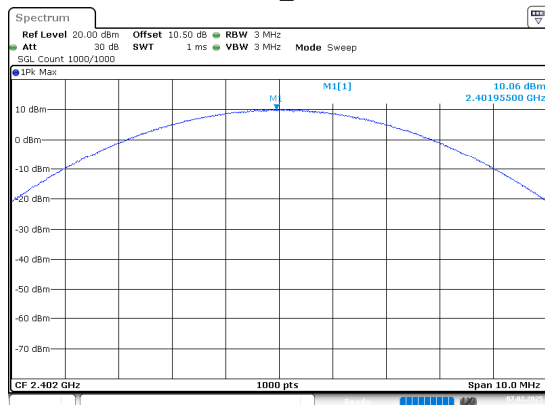
ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:18:41

2DH1_High



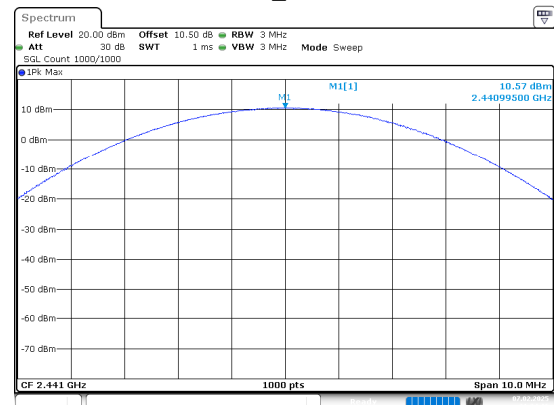
ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:20:01

3DH1_Low



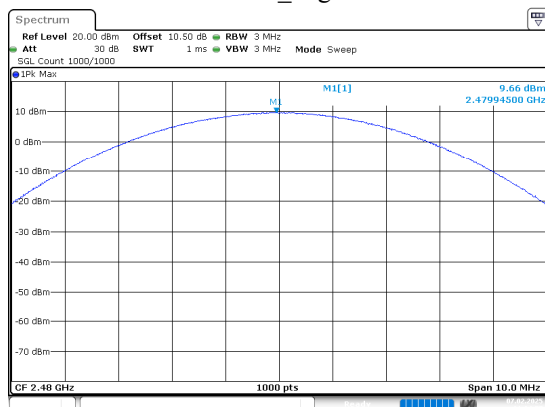
ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:23:32

3DH1_Middle



ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:24:16

3DH1_High



ProjectNo.:2502P42842E-RF Tester:Karl Liang
Date: 7.FEB.2025 21:24:57

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502P42842E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502P42842E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502P42842E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

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