

TEST REPORT

Applicant/Manufacturer: Lewitt GmbH
Address: Schanzstrasse 14 Top 1.1, Vienna, 1150 Austria
Report Number: 2501X13479E-RF-00
FCC ID: 2BS3M-LWTX

Test Standard (s)

FCC PART 15F

Sample Description

Product Type: Transmitter for LW headphones
Model No.: LW TX
Multiple Model(s) No.: N/A
Trade Mark:  **LEWITT**
Date Received: 2025-09-18
Issue Date: 2026-08-05

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Wills Yu

Wills Yu
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501X13479E-RF-00	Original Report	2026-08-05

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Category	Indoor UWB Device
Frequency Range	7635.5MHz, 8426.5MHz
Modulation Technique	IQOOK
Antenna Specification[#]	7.76dBi (provided by the applicant)
Voltage Range	DC 5V from USB port
Sample serial number	3BA5-27 for AC Line Conducted Emissions and Radiated Emissions Test 3BA5-29 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This report is prepared on behalf in accordance with Part 2-Subpart J, Part 15-Subparts A and F of the Federal Communication Commission's rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Power Spectral Density		0.90dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.63dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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, test firm registration No.: 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing by manufacturer.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

“gattctrl.exe”[#] exercise software was used and the power level is default[#]. The software and power level was provided by the manufacturer.

Support Equipment List and Details

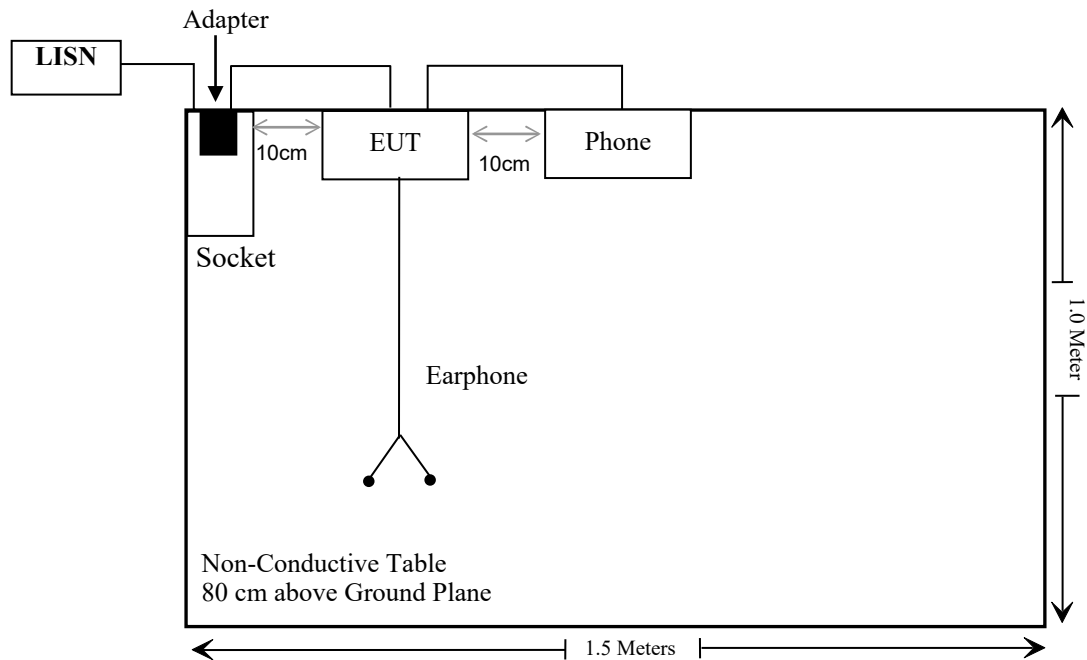
Manufacturer	Description	Model	Serial Number
Franklin	Adapter	PD018W-G	DC221020-27645
OPPO	Earphone	Unknown	Unknown
OPPO	Phone	PJD110	A00001156F63CD

External I/O Cable

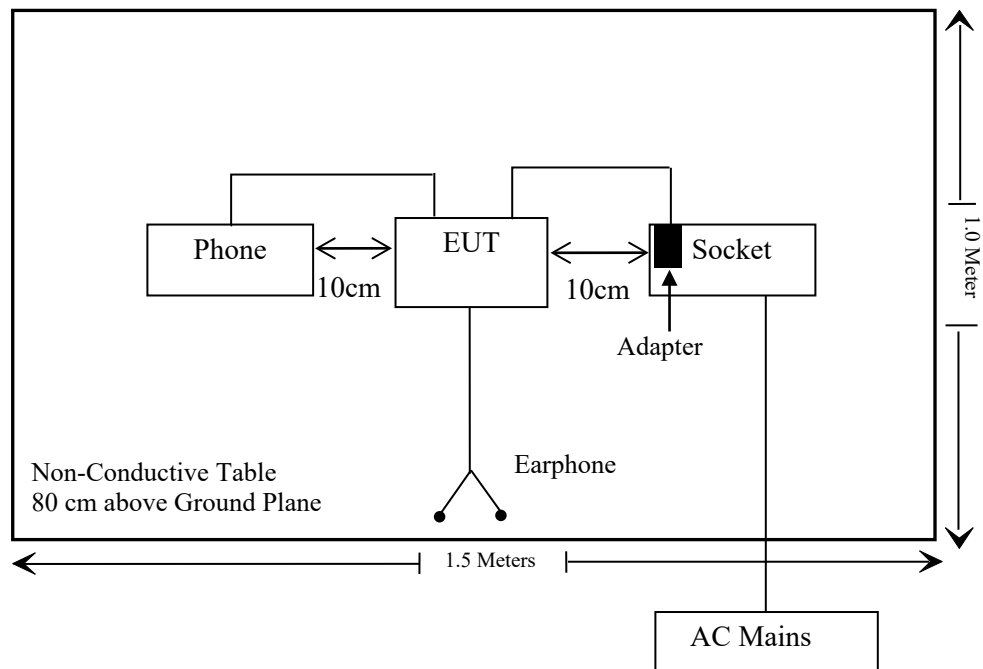
Cable Description	Length (m)	From/Port	To
Unshielded Un-detachable AC Cable	1.2	Socket	LISN/AC Mains
Unshielded Detachable DC Cable	1.5	EUT	Adapter
Unshielded Detachable Audio Cable	1.5	EUT	Phone
Unshielded Un-detachable Audio Cable	1.0	EUT	Earphone

Block Diagram of Test Setup

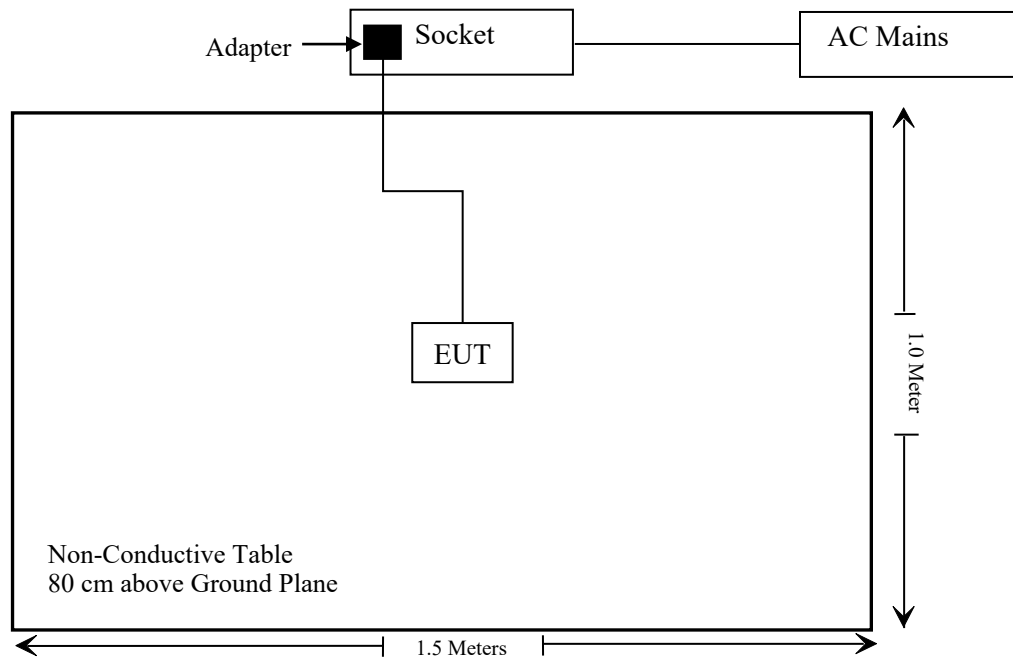
For AC Line Conducted Emissions



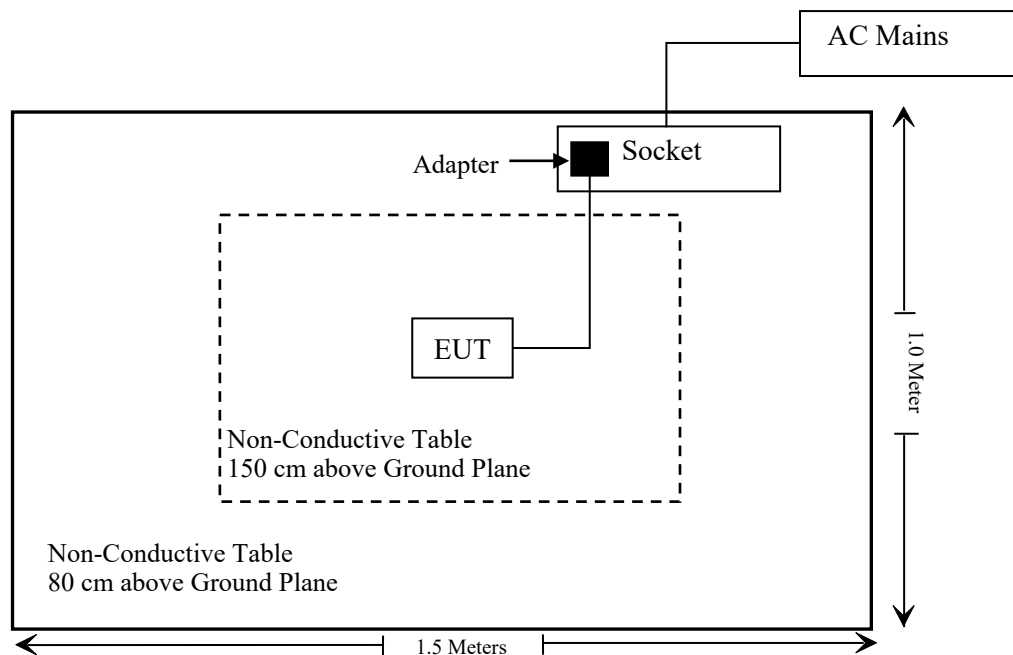
For Radiated Emissions below 960MHz



For Radiated Emissions above 960MHz



For Radiated Emissions above 1GHz



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§2.1091& §1.1310	RF Exposure	Compliant
§15.203, §15.517(a)(3)	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.517(a)	General Requirement	Compliant
§15.517(a)(5)	Shutoff Timing Requirement	Compliant
§15.503 (a)(d), §15.517(b)	UWB Operation bandwidth	Compliant
§15.209,§15.517(c)(d)	Radiated Emissions	Compliant
§15.517(e)	Maximum Peak Emission (Peak EIRP)	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2025/09/01	2026/08/31
Rohde & Schwarz	LISN	ENV216	101613	2025/09/18	2026/09/17
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/09/18	2026/09/17
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/09/18	2026/09/17
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
Radiated Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/09/08	2026/09/07
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
TDK	Chamber	Chamber A	2#	2023/07/12	2026/07/11
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/09/01	2026/08/31
A.H.System	Preamplifier	PAM-0118P	489	2025/09/08	2026/09/07
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	Chamber B Cable	Cable B1	Cable B1	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B2	Cable B2	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B3	Cable B3	2025/09/08	2026/09/07
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
TDK	Chamber	Chamber B	1#	2023/07/14	2026/07/13
A.H.System	Pre-amplifier	PAM-1840VH	190	2025/09/08	2026/09/07
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Unknown	Chamber B Cable	Cable B4	Cable B4	2025/09/17	2026/09/16
Unknown	Chamber B Cable	Cable B5	Cable B5	2025/09/17	2026/09/16
KEYSIGHT	Spectrum Analyzer	N9030B	MY59431409	2026/02/25	2027/02/24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2025/09/01	2026/08/31
Unknown	10dB Attenuator	Unknown	F-03-EM190	2026/06/24	2027/06/23

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §2.1091, §1.1310 - RF EXPOSURE

Applicable Standard

According to FCC §2.1091, §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Test Result:

For worst case:

Mode	Frequency (MHz)	Maximum Tune-up EIRP [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBm)	(mW)			
UWB	7635.5	-9.0	0.13	20	0.00003	1
UWB	8426.5	-12.0	0.06	20	0.00001	1

Note: The tune up power was declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 & §15.517(A)(3) - ANTENNA REQUIREMENT

Applicable Standard

According to 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.

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.

According to FCC § 15.517(a)(3), The use of outdoor mounted antennas, e.g., antennas mounted on the outside of a building or on a telephone pole, or any other outdoors infrastructure is prohibited.

Antenna Connector Construction

The EUT has one internal antenna which permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain [#]	Impedance	Frequency Range
PCB	7.76dBi	50Ω	6GHz -10.2GHz

Result: Compliant.

FCC §15.517(a) - GENERAL REQUIREMENT

Applicable Standard

According to § 15.517(a): Operation under the provisions of this section is limited to UWB transmitters employed solely for indoor operation.

- (1) Indoor UWB devices, by the nature of their design, must be capable of operation only indoors. The necessity to operate with a fixed indoor infrastructure, e.g., a transmitter that must be connected to the AC power lines, may be considered sufficient to demonstrate this.
- (2) The emissions from equipment operated under this section shall not be intentionally directed outside of the building in which the equipment is located, such as through a window or a doorway, to perform an outside function, such as the detection of persons about to enter a building.
- (3) The use of outdoor mounted antennas, e.g., antennas mounted on the outside of a building or on a telephone pole, or any other outdoors infrastructure is prohibited.
- (4) Field disturbance sensors installed inside of metal or underground storage tanks are considered to operate indoors provided the emissions are directed towards the ground.

Result

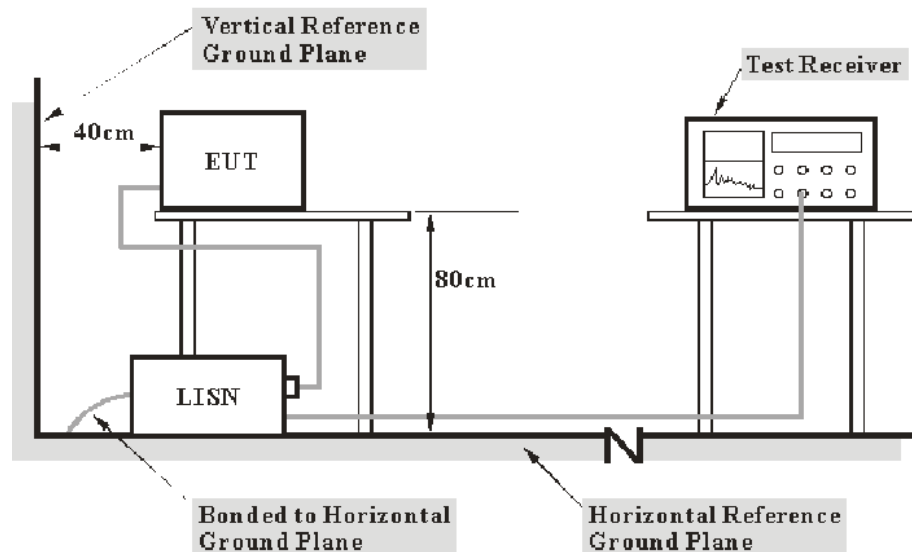
- (1) Compliance, EUT was only for indoor used, mainly used for recording studios, etc. Detail please refer to user manual.
- (2) Compliance, EUT was only for indoor positioning, detail please refer to user manual.
- (3) Compliance, the device with internal antenna and will never use the outdoor mounted antennas, please refer to EUT photo.
- (4) EUT is not a field disturbance sensor.

FCC § 15.207 (a) AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207 (a)

EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

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

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	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

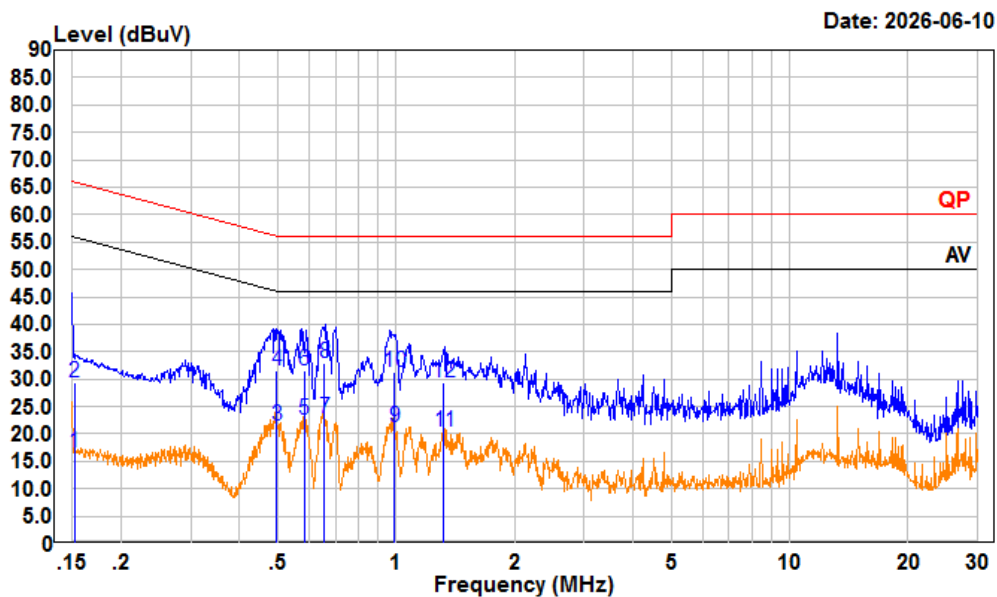
Environmental Conditions

Temperature:	25.2 °C
Relative Humidity:	64 %
ATM Pressure:	100.2 kPa

The testing was performed by Macy Shi on 2026-06-10.

EUT operation mode: Transmitting (maximum output power mode, 7635.5MHz)

AC 120V/60 Hz, Line



Condition: Line

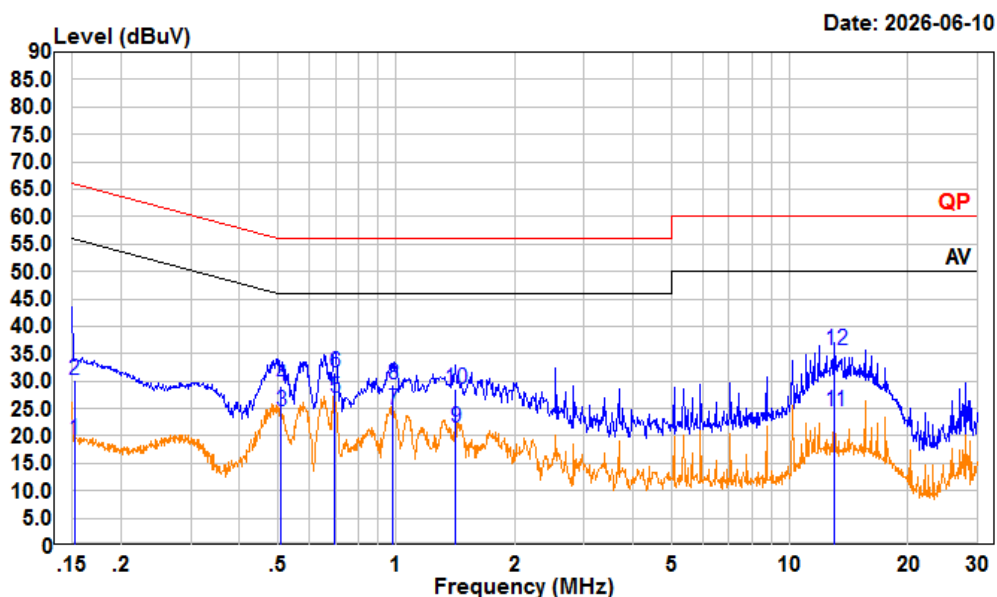
Project : 2501X13479E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	-2.99	16.73	9.70	10.02	55.89	-39.16	Average
2	0.152	9.73	29.45	9.70	10.02	65.89	-36.44	QP
3	0.496	1.74	21.47	9.70	10.03	46.06	-24.59	Average
4	0.496	11.75	31.48	9.70	10.03	56.06	-24.58	QP
5	0.585	2.95	22.69	9.70	10.04	46.00	-23.31	Average
6	0.585	11.85	31.59	9.70	10.04	56.00	-24.41	QP
7	0.658	3.00	22.74	9.70	10.04	46.00	-23.26	Average
8	0.658	13.12	32.86	9.70	10.04	56.00	-23.14	QP
9	0.990	1.42	21.36	9.89	10.05	46.00	-24.64	Average
10	0.990	11.38	31.32	9.89	10.05	56.00	-24.68	QP
11	1.320	0.20	20.31	9.90	10.21	46.00	-25.69	Average
12	1.320	9.38	29.49	9.90	10.21	56.00	-26.51	QP

AC 120V/60 Hz, Neutral



Condition: neutral

Project : 2501X13479E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	-0.23	19.39	9.60	10.02	55.89	-36.50	Average
2	0.152	10.69	30.31	9.60	10.02	65.89	-35.58	QP
3	0.510	4.93	24.57	9.60	10.04	46.00	-21.43	Average
4	0.510	9.44	29.08	9.60	10.04	56.00	-26.92	QP
5	0.699	7.35	26.99	9.60	10.04	46.00	-19.01	Average
6	0.699	12.03	31.67	9.60	10.04	56.00	-24.33	QP
7	0.980	5.06	24.71	9.60	10.05	46.00	-21.29	Average
8	0.980	9.79	29.44	9.60	10.05	56.00	-26.56	QP
9	1.415	1.62	21.43	9.60	10.21	46.00	-24.57	Average
10	1.415	8.67	28.48	9.60	10.21	56.00	-27.52	QP
11	13.037	4.54	24.60	9.70	10.36	50.00	-25.40	Average
12	13.037	15.67	35.73	9.70	10.36	60.00	-24.27	QP

FCC §15.517(a) (5) - SHUTOFF TIMING REQUIREMENT

Applicable Standard

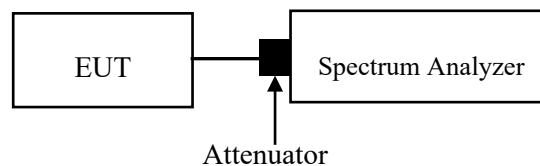
According to § 15.517(a) (5)

A communications system shall transmit only when the intentional radiator is sending information to an associated receiver.

Test Procedure

For § 15.517(a) (5)

1. Set the EUT in normal operating mode.
2. RBW/VBW= 3MHz/3MHz.
3. SWT= 20s



Test Data

Environmental Conditions

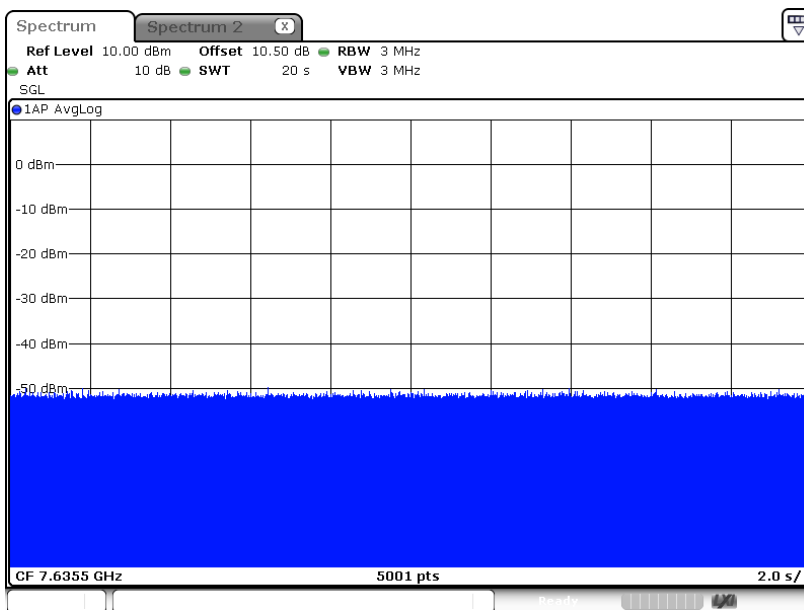
Temperature:	24.3 °C
Relative Humidity:	51 %
ATM Pressure:	100.2 kPa

The testing was performed by David He on 2026-06-27.

Test Result: Pass.

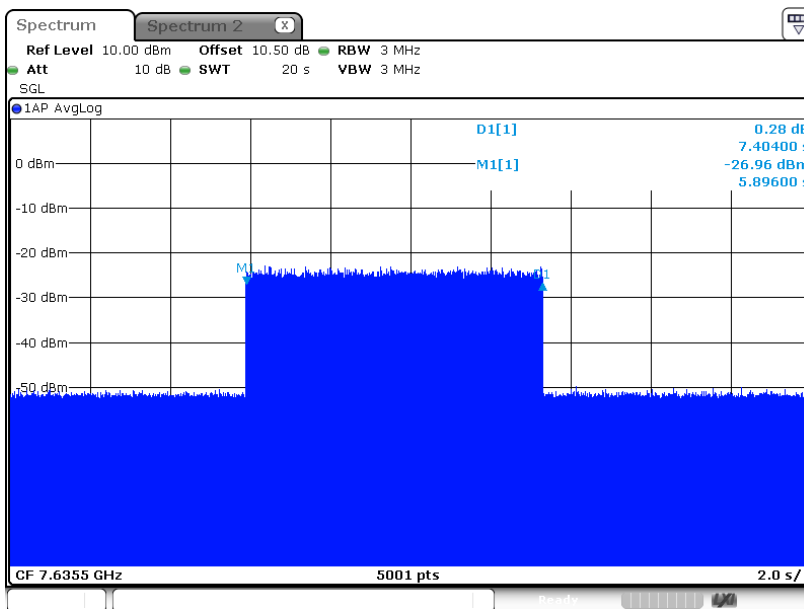
EUT operation mode: Transmitting

7635.5MHz

Without associated receiver, EUT no transmit

ProjectNo.:2501X13479E-RF Tester:David He
Date: 27.JUN.2026 16:30:58

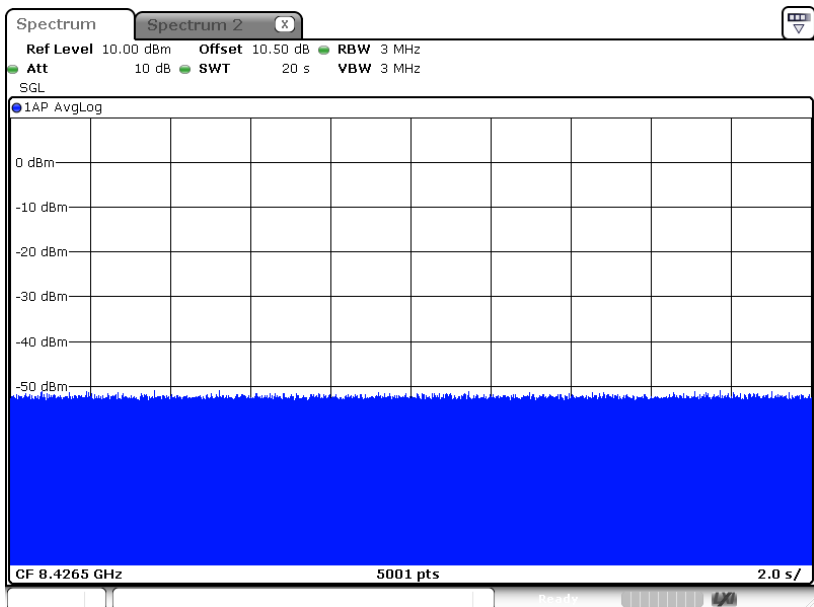
*Communication with receiver, EUT start transmit, after approximate 8s, power off receiver,
EUT cease transmit*



ProjectNo.:2501X13479E-RF Tester:David He
Date: 27.JUN.2026 16:32:05

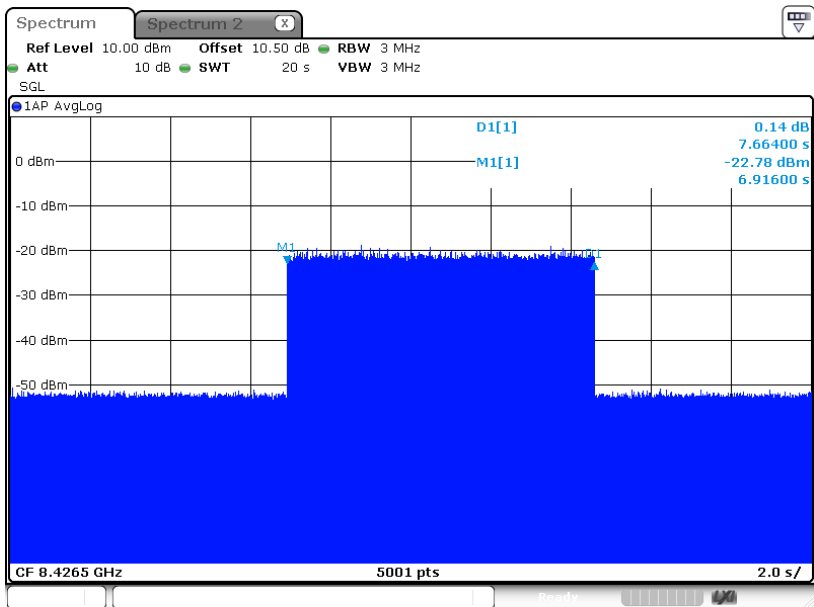
8426.5MHz

Without associated receiver, EUT no transmit



ProjectNo.:2501X13479E-RF Tester:David He
Date: 27.JUN.2026 16:49:09

Communication with receiver, EUT start transmit, after approximate 8s, power off receiver, EUT cease transmit



ProjectNo.:2501X13479E-RF Tester:David He
Date: 27.JUN.2026 16:51:50

FCC §15.503 (a)(d), §15.517(b) –UWB OPEARTION BANDWIDTH

Applicable Standard

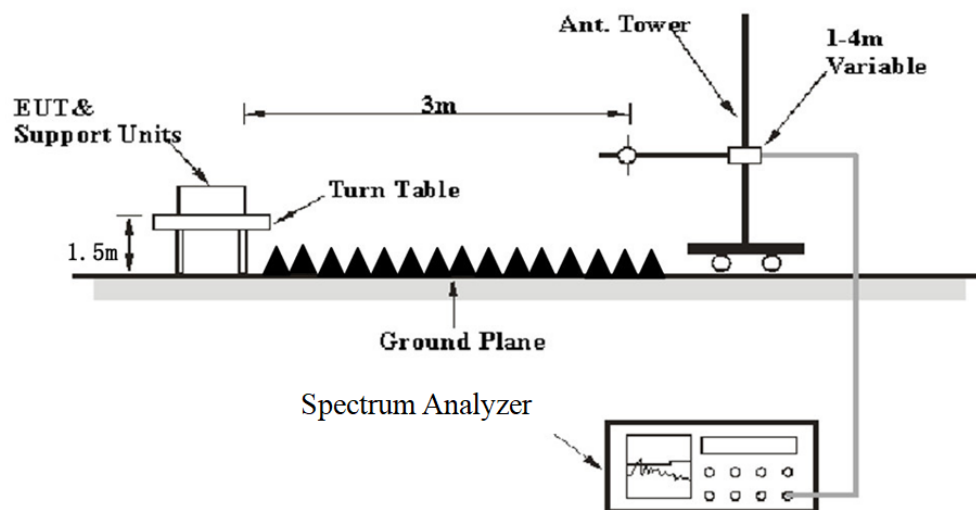
According to FCC § 15. 503 (a), UWB bandwidth. For the purpose of this subpart, the UWB bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated f_H and the lower boundary is designated f_L . The frequency at which the highest radiated emission occurs is designated f_M .

According to FCC § 15. 503 (d), Ultra-wideband (UWB) transmitter. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

According to FCC § 15. 517 (b), The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

Test Procedure

Refer to the ANSI C63.10-2020 Section 10.1



Test Data**Environmental Conditions**

Temperature:	24.3~25.6℃
Relative Humidity:	51~54 %
ATM Pressure:	100.2 kPa

The testing was performed by Wing K Ji from 2026-06-17 to 2026-06-29.

Test Result: Pass.

EUT operation mode: Transmitting

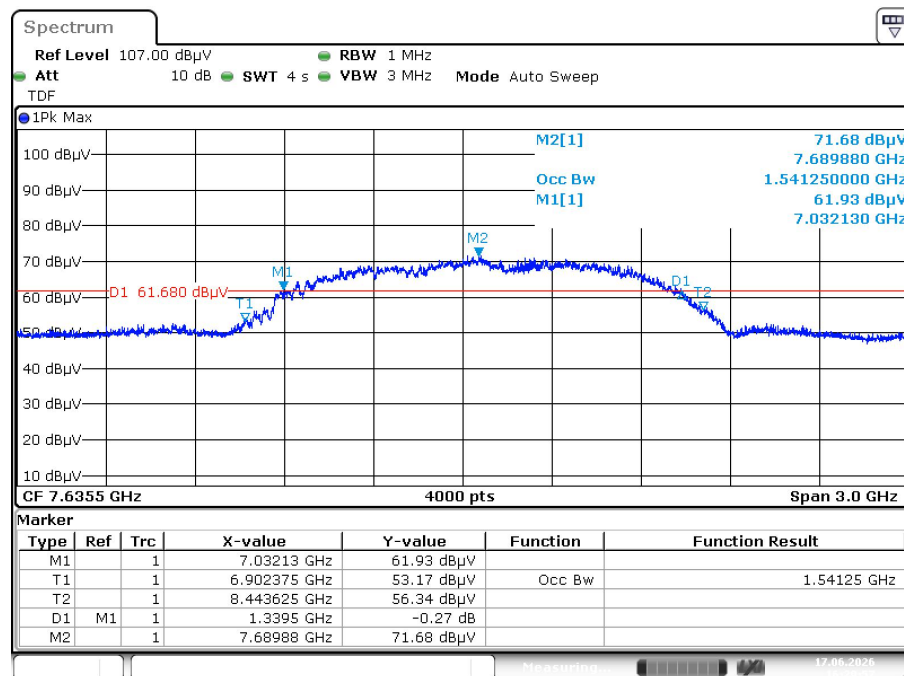
Please refer to the following table and plots.

Test distance is 3m.

7635.5MHz

Item		Result	Limit (MHz)
f_M (MHz)	The highest emission frequency	7689.88	/
f_L (MHz)	10dB below the highest emission	7032.13	>3100
f_H (MHz)	10dB above the highest emission	8371.63	<10600
f_C (MHz)	$(f_H + f_L)/2$	7701.88	/
10dB bandwidth(MHz)	$f_H - f_L$	1339.5	≥ 500
Fractional bandwidth	$2(f_H - f_L) / (f_H + f_L)$	0.174	/

10dB Bandwidth



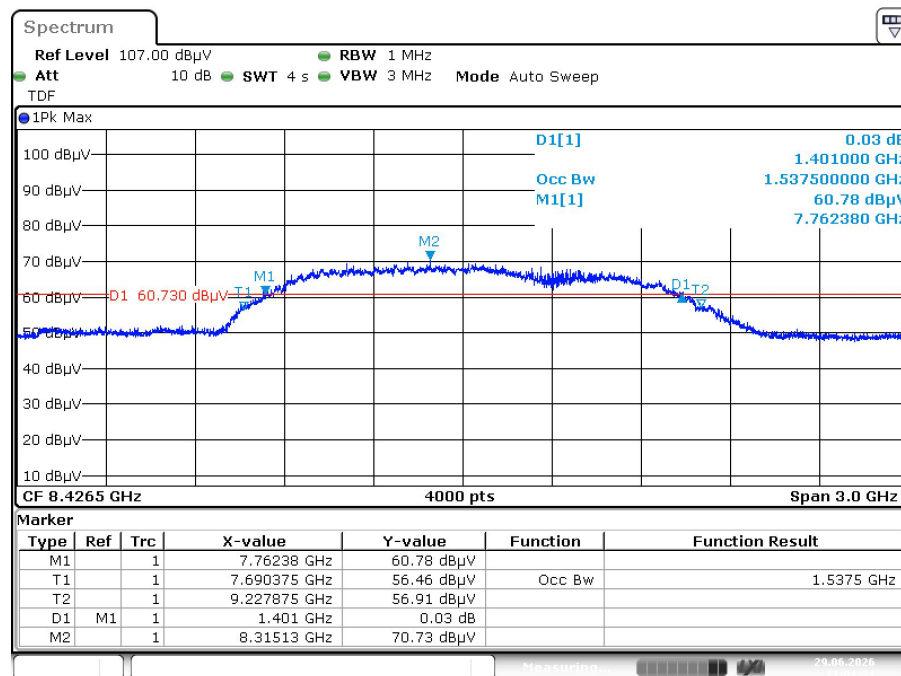
ProjectNo.:2501X13479E-RF Tester:Wing K Ji

Date: 17.JUN.2026 16:29:57

8426.5MHz

Item		Result	Limit (MHz)
f_M (MHz)	The highest emission frequency	8315.13	/
f_L (MHz)	10dB below the highest emission	7762.38	>3100
f_H (MHz)	10dB above the highest emission	9163.38	<10600
f_C (MHz)	$(f_H + f_L)/2$	8462.88	/
10dB bandwidth(MHz)	$f_H - f_L$	1401	≥ 500
Fractional bandwidth	$2(f_H - f_L) / (f_H + f_L)$	0.166	/

10dB Bandwidth



ProjectNo.:2501X13479E-RF Tester:Wing K Ji

Date: 29.JUN.2026 11:01:31

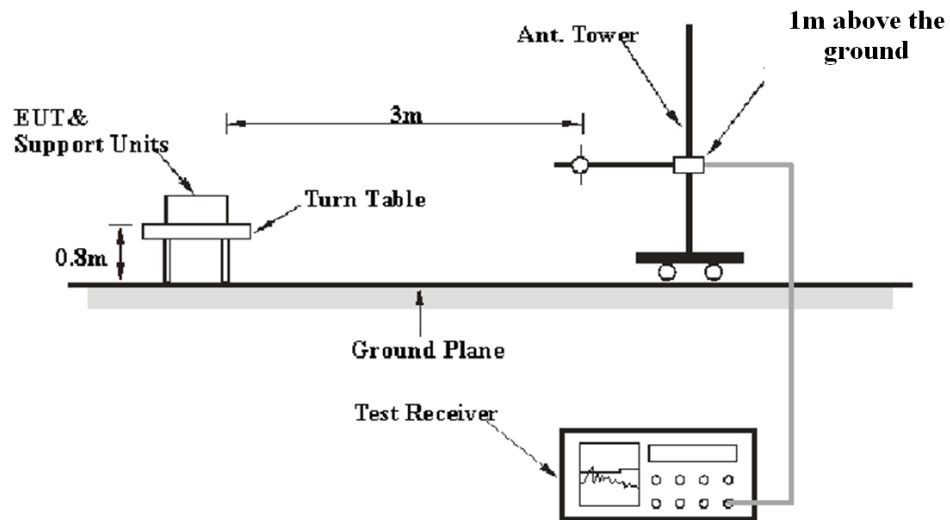
FCC §15.209, §15.517(c)(d) - SPURIOUS EMISSIONS

Applicable Standard

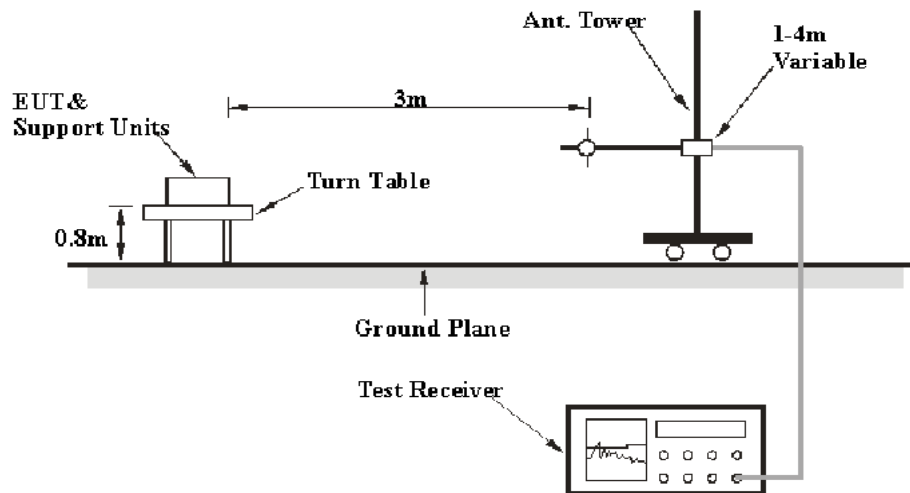
FCC §15.209, §15.517(c)(d)

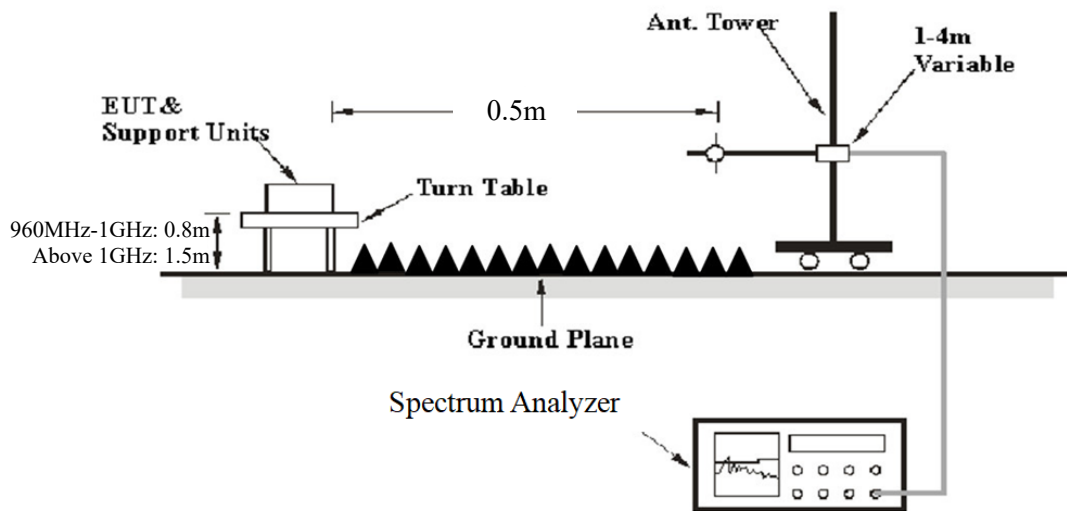
EUT Setup

9 kHz-30MHz:



30MHz-960MHz:



Above 960MHz:

The radiated emission tests were performed in the 3meters test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.517 limits.

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

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	Peak	PK
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	Peak	PK
30 MHz – 960 MHz	/	/	120 kHz	QP	QP
	120 kHz	500 kHz	/	Peak	PK
Above 960 MHz	1MHz	3 MHz	/	RMS	Average
	1kHz	3 kHz	/	RMS	Average*

Note: * For the radiated spurious emission in the GPS band.

Test Procedure

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

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 960 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 960 MHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

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

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level / Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

Environmental Conditions

Temperature:	24.2~25.1 °C
Relative Humidity:	48~57 %
ATM Pressure:	101.8~101.2 kPa

The testing was performed by Alex Yan on 2026-06-10 for below 960MHz and Wing K Ji from 2026-06-18 to 2026-06-29 for above 960MHz.

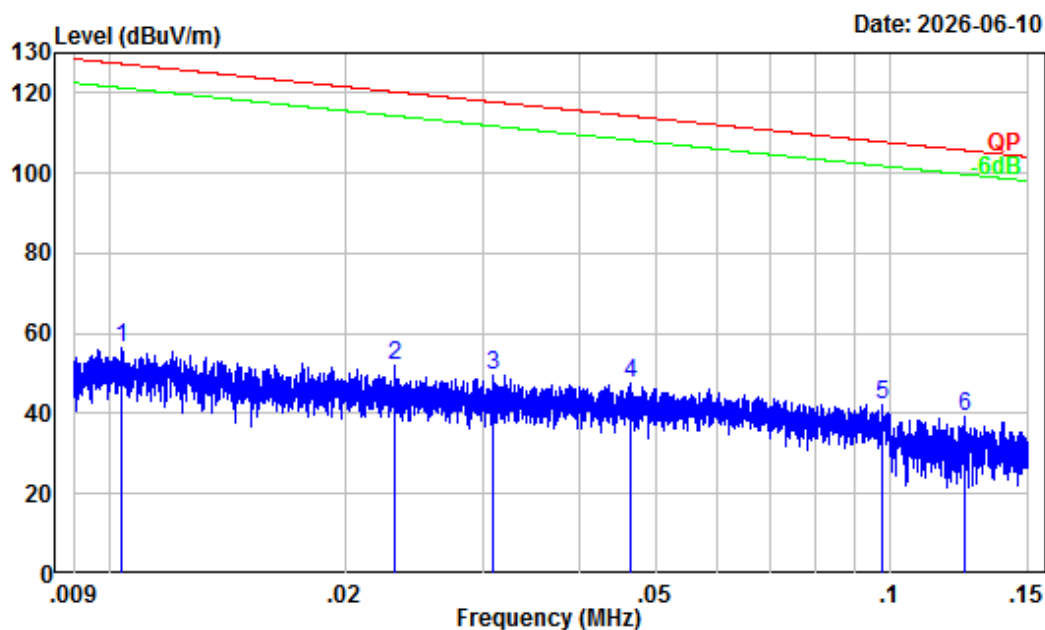
EUT operation mode: Transmitting

Note:

- 1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded.*
- 2. For the radiated spurious emission below 960MHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.*
- 3. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded.*

Below 1GHz:**7635.5MHz**

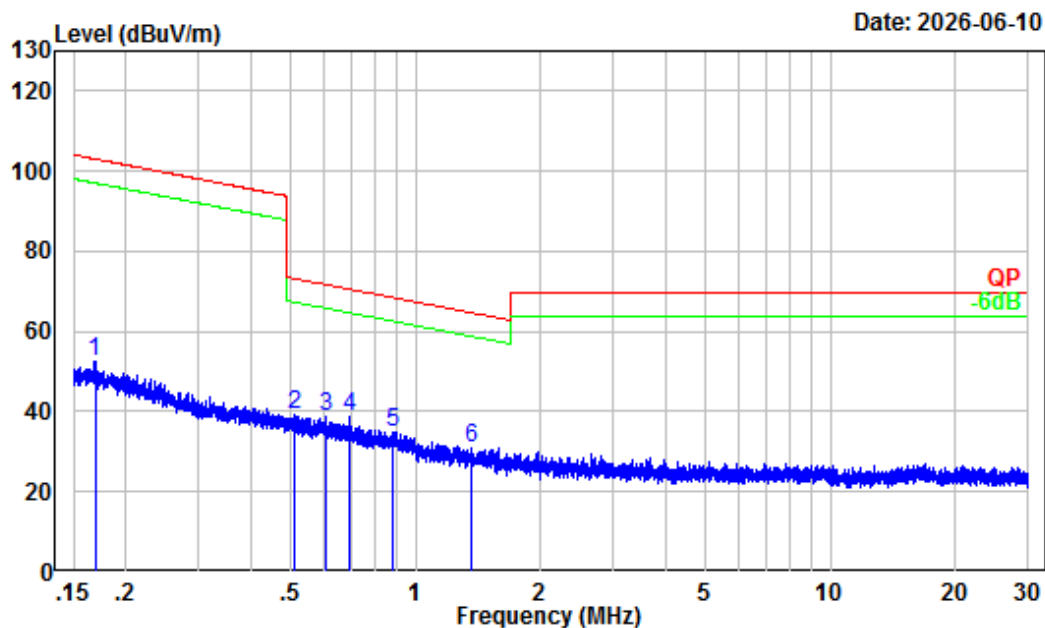
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.23	24.34	56.57	127.29	-70.72	Peak
2	0.023	29.80	22.09	51.89	120.30	-68.41	Peak
3	0.031	28.39	20.99	49.38	117.76	-68.38	Peak
4	0.046	26.78	20.69	47.47	114.29	-66.82	Peak
5	0.098	22.16	20.13	42.29	107.81	-65.52	Peak
6	0.124	20.58	18.50	39.08	105.73	-66.65	Peak

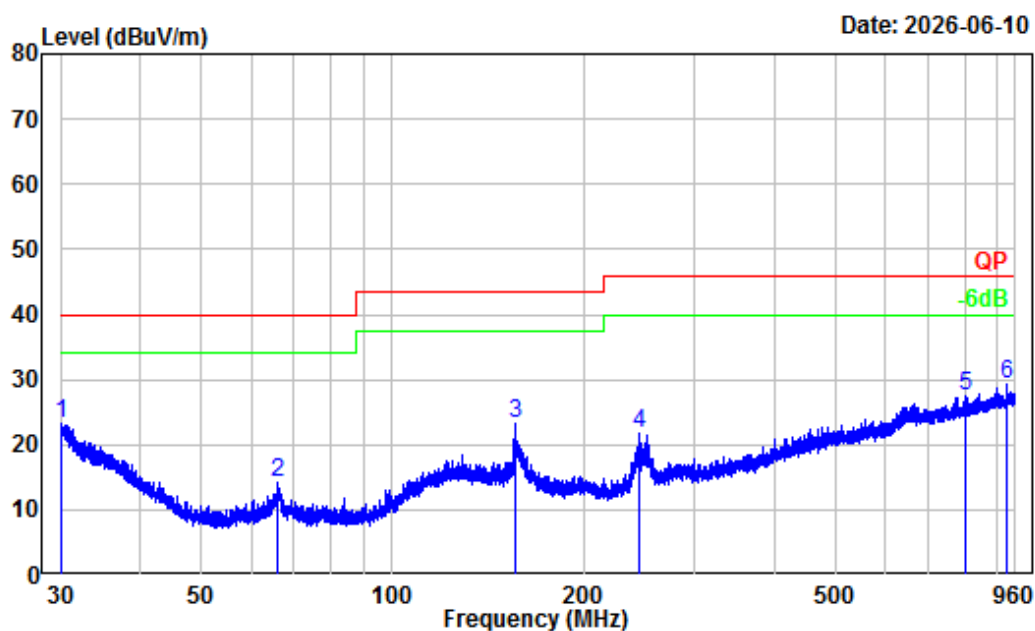
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.169	17.94	34.60	52.54	103.06	-50.52	Peak
2	0.510	6.28	32.78	39.06	73.44	-34.38	Peak
3	0.609	5.05	33.70	38.75	71.87	-33.12	Peak
4	0.690	4.06	34.50	38.56	70.77	-32.21	Peak
5	0.882	2.08	32.92	35.00	68.59	-33.59	Peak
6	1.365	0.18	30.91	31.09	64.71	-33.62	Peak

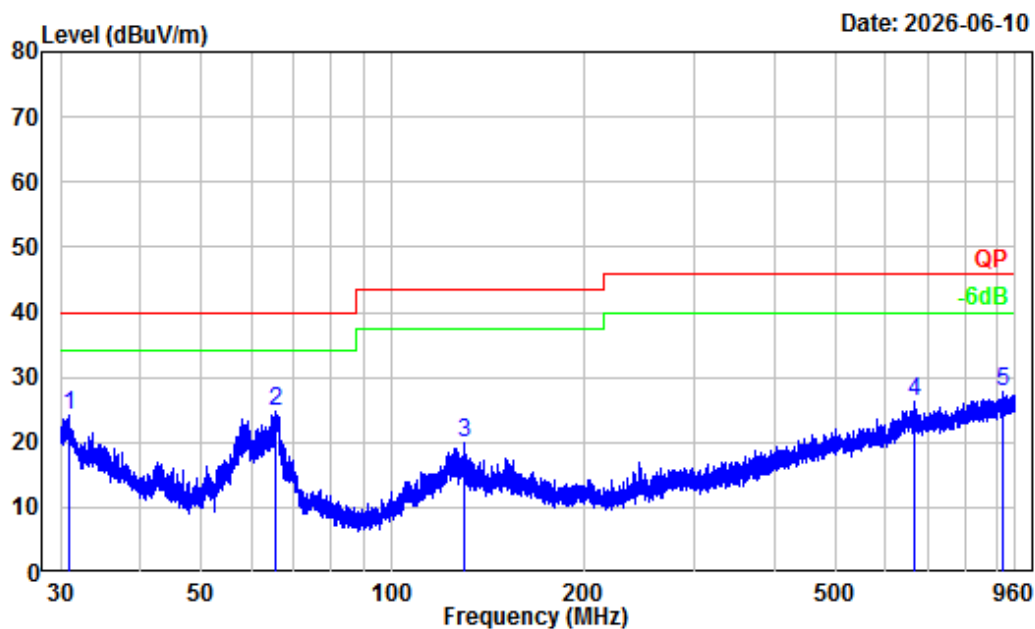
30MHz-960MHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	30.079	-5.79	28.97	23.18	40.00	-16.82 Peak
2	66.121	-17.77	32.07	14.30	40.00	-25.70 Peak
3	155.842	-12.56	35.91	23.35	43.50	-20.15 Peak
4	244.983	-13.17	34.92	21.75	46.00	-24.25 Peak
5	801.435	-2.04	29.43	27.39	46.00	-18.61 Peak
6	928.194	-0.54	29.73	29.19	46.00	-16.81 Peak

30MHz-960MHz_Vertical

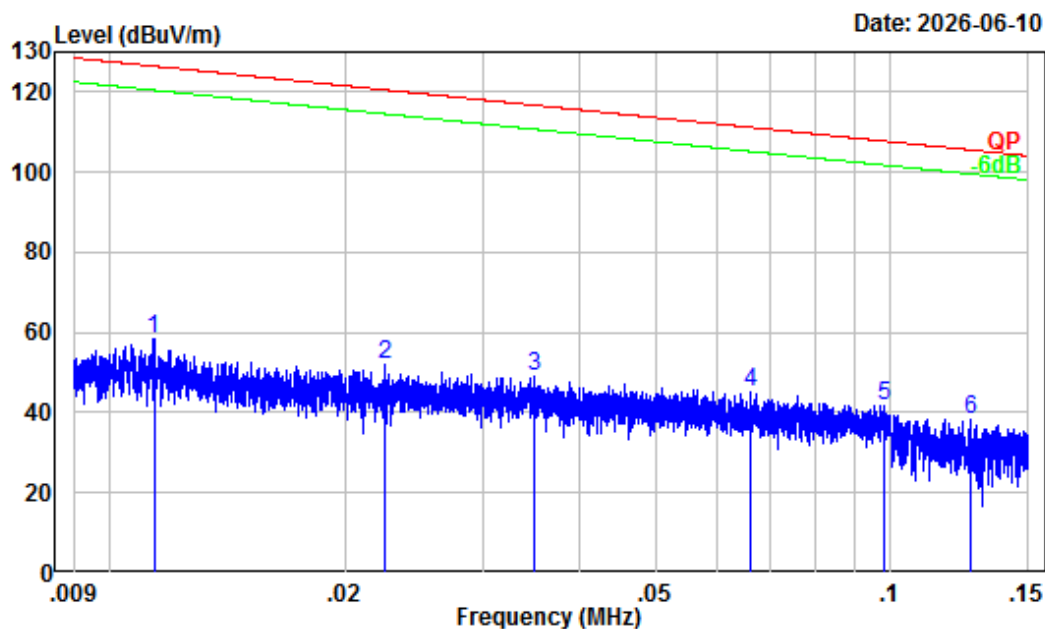


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.975	-6.24	30.38	24.14	40.00	-15.86	Peak
2	65.401	-17.83	42.67	24.84	40.00	-15.16	Peak
3	129.468	-11.20	31.00	19.80	43.50	-23.70	Peak
4	667.264	-3.15	29.37	26.22	46.00	-19.78	Peak
5	918.079	-0.64	28.56	27.92	46.00	-18.08	Peak
6	998.248	0.57	28.19	28.76	54.00	-25.24	Peak

8426.5MHz

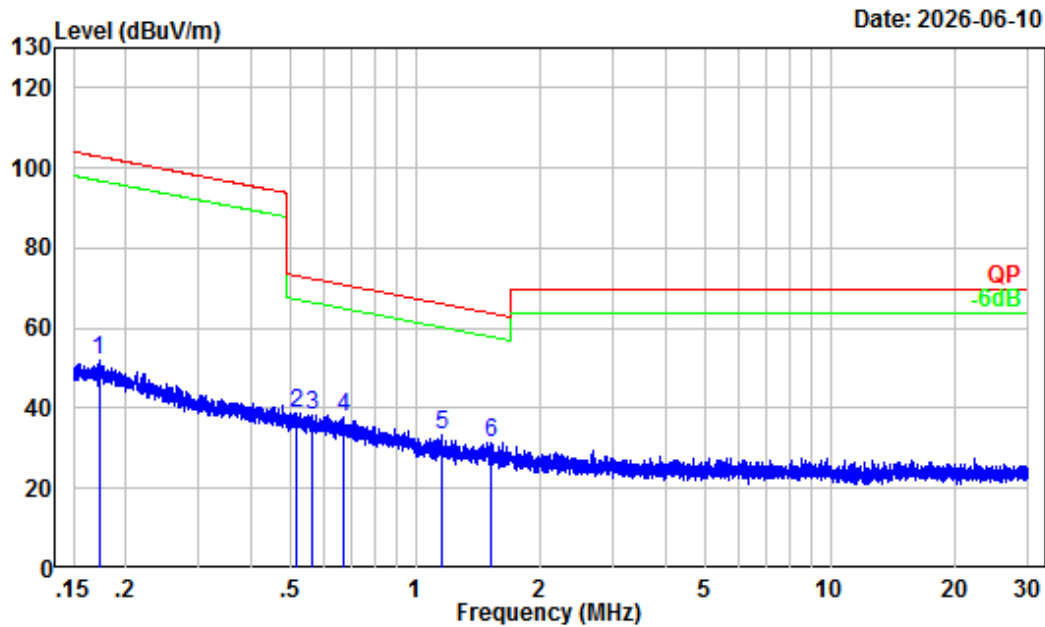
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.03	26.23	58.26	126.47	-68.21	Peak
2	0.023	29.92	21.84	51.76	120.55	-68.79	Peak
3	0.035	27.98	21.30	49.28	116.73	-67.45	Peak
4	0.066	24.79	20.33	45.12	111.20	-66.08	Peak
5	0.098	22.14	19.71	41.85	107.78	-65.93	Peak
6	0.127	20.42	17.60	38.02	105.54	-67.52	Peak

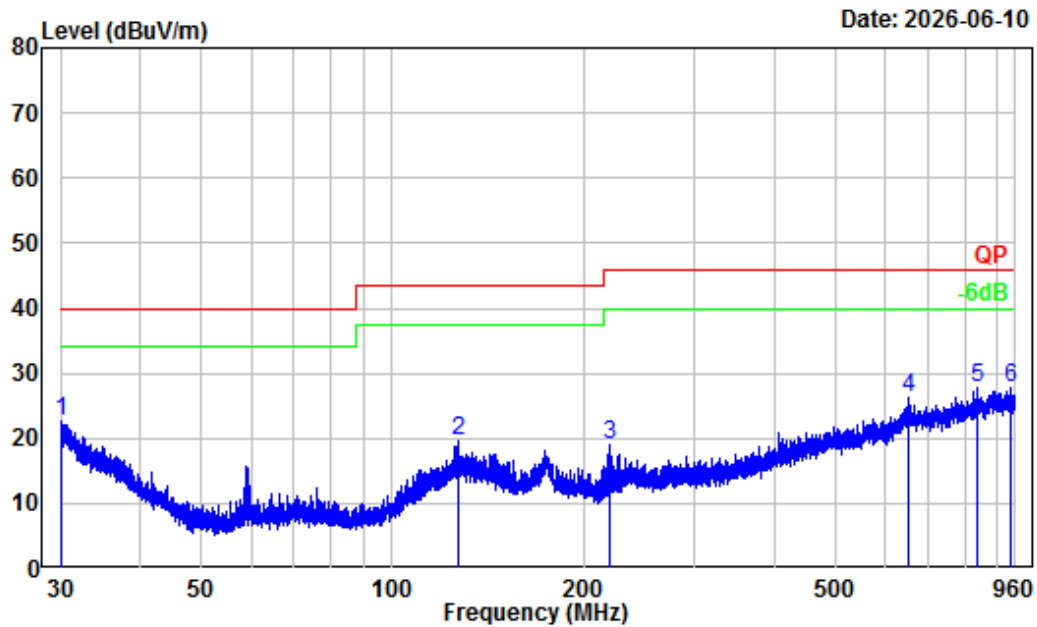
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.172	17.72	34.47	52.19	102.87	-50.68	Peak
2	0.514	6.22	32.69	38.91	73.37	-34.46	Peak
3	0.561	5.65	32.85	38.50	72.60	-34.10	Peak
4	0.671	4.30	33.28	37.58	71.02	-33.44	Peak
5	1.153	0.77	32.63	33.40	66.21	-32.81	Peak
6	1.526	-0.27	31.86	31.59	63.72	-32.13	Peak

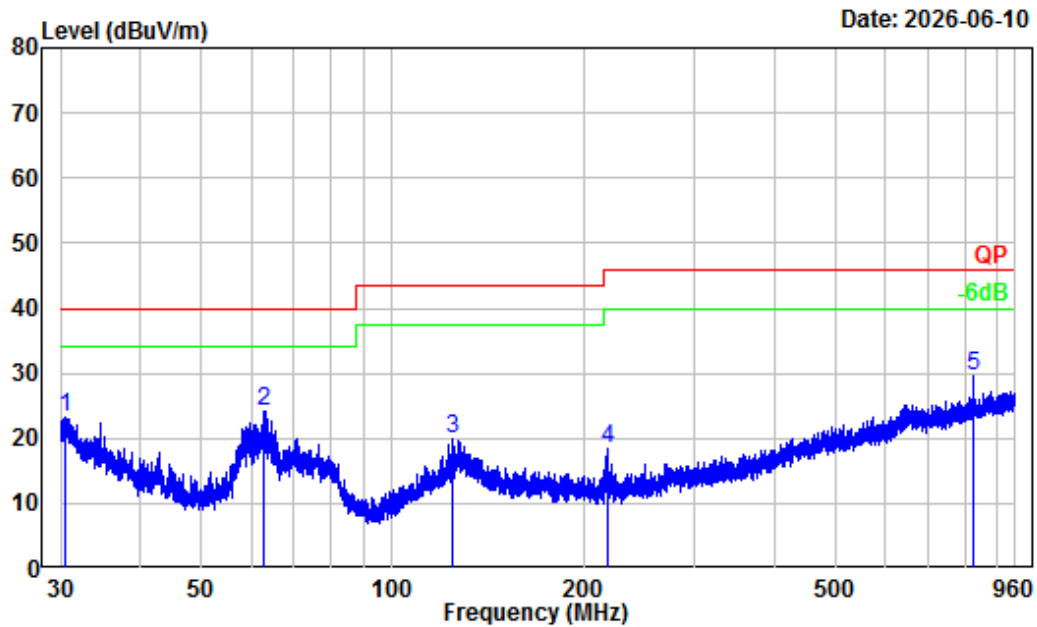
30MHz-960MHz _Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.039	-5.77	28.47	22.70	40.00	-17.30	Peak
2	127.273	-11.11	30.68	19.57	43.50	-23.93	Peak
3	220.617	-14.09	33.25	19.16	46.00	-26.84	Peak
4	650.800	-3.02	29.36	26.34	46.00	-19.66	Peak
5	836.244	-1.67	29.42	27.75	46.00	-18.25	Peak
6	947.099	-0.38	28.07	27.69	46.00	-18.31	Peak

30MHz-960MHz _Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501X13479E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

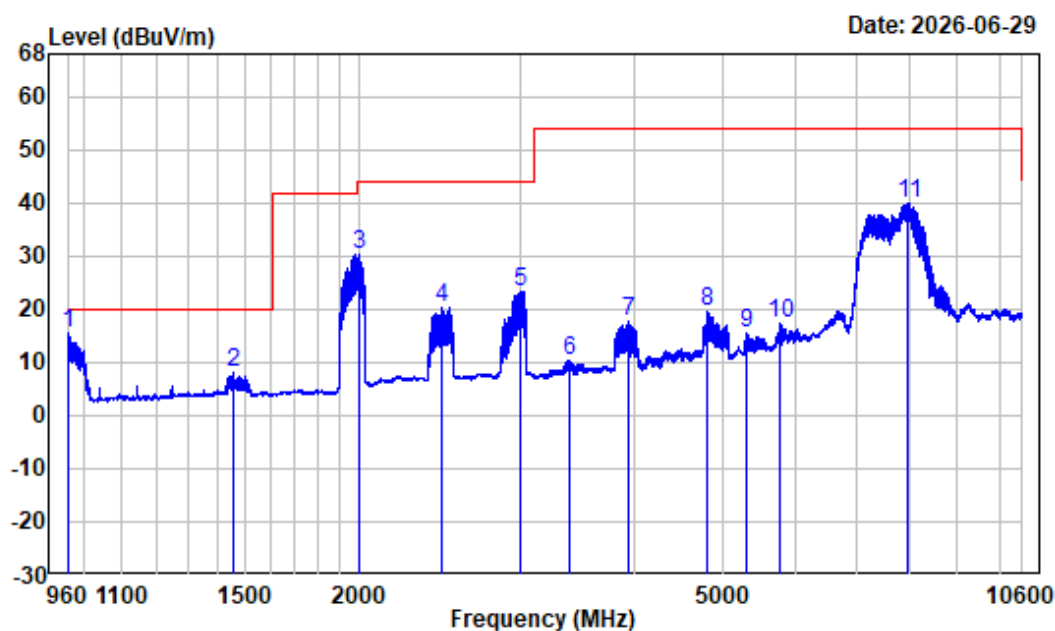
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.437	-5.97	29.08	23.11	40.00	-16.89	Peak
2	62.541	-17.97	42.11	24.14	40.00	-15.86	Peak
3	124.569	-11.13	31.06	19.93	43.50	-23.57	Peak
4	218.022	-14.10	32.64	18.54	46.00	-27.46	Peak
5	825.320	-1.79	31.35	29.56	46.00	-16.44	Peak
6	964.273	-0.12	27.59	27.47	54.00	-26.53	Peak

Spurious radiated emission above 960MHz in non GPS band:

1. The test distance is 0.5m, so the correct factor from 3m to 0.5m is $20\log(3/0.5)=15.56\text{dB}$ which was added into the offset on the spectrum analyzer.
2. $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters. The unit of final result on the test plots are $\text{dB}\mu\text{V/m}$, so the limit should be added by 95.2 dB from dB m to $\text{dB}\mu\text{V/m}$.
3. The antenna factor, cable loss and preamplifier gain have been entered into the analyzer as the transducer factor.
4. For 10.6GHz-40GHz, the RBW Factor were added into the offset on the Spectrum Analyzer.
RBW Factor= $20\lg(1\text{MHz}/100\text{kHz})$

7635.5MHz:

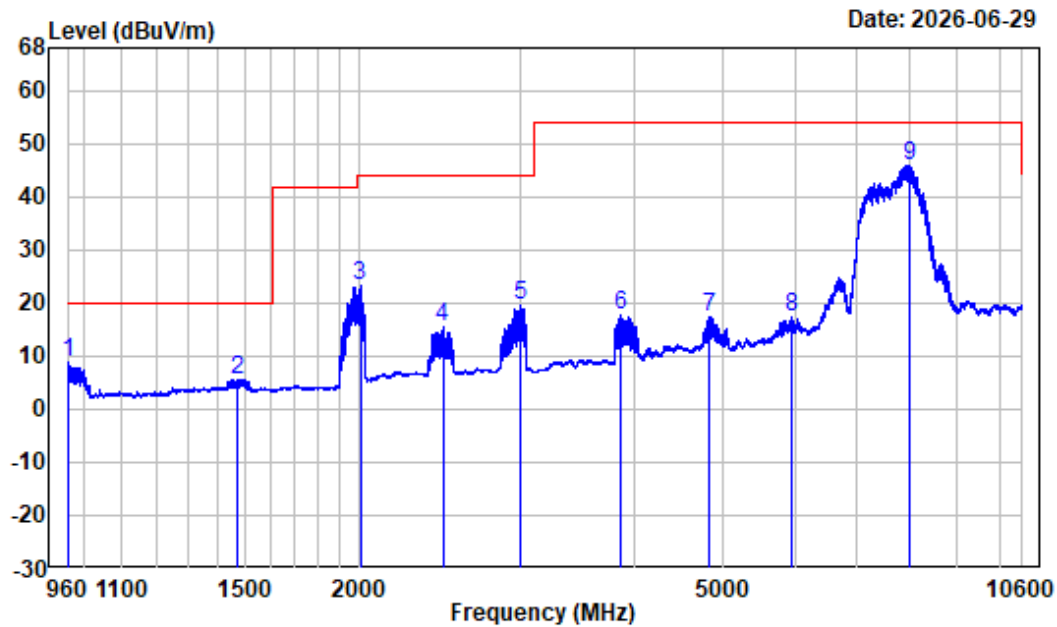
960MHz~10.6GHz_Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1MHz VBW:3MHz Detector:RMS
 Note : UWB_7635.5MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	960.964	-17.37	33.00	15.63	19.90	-4.27	Average
2	1456.510	-16.53	24.77	8.24	19.90	-11.66	Average
3	2003.152	-15.34	45.74	30.40	43.90	-13.50	Average
4	2456.278	-14.01	34.14	20.13	43.90	-23.77	Average
5	3003.884	-13.56	36.94	23.38	43.90	-20.52	Average
6	3387.595	-13.97	24.30	10.33	53.90	-43.57	Average
7	3930.381	-13.69	31.55	17.86	53.90	-36.04	Average
8	4807.709	-12.08	31.63	19.55	53.90	-34.35	Average
9	5305.183	-11.56	27.15	15.59	53.90	-38.31	Average
10	5768.913	-10.13	27.38	17.25	53.90	-36.65	Average
11	7955.483	-6.86	46.74	39.88	53.90	-14.02	Average

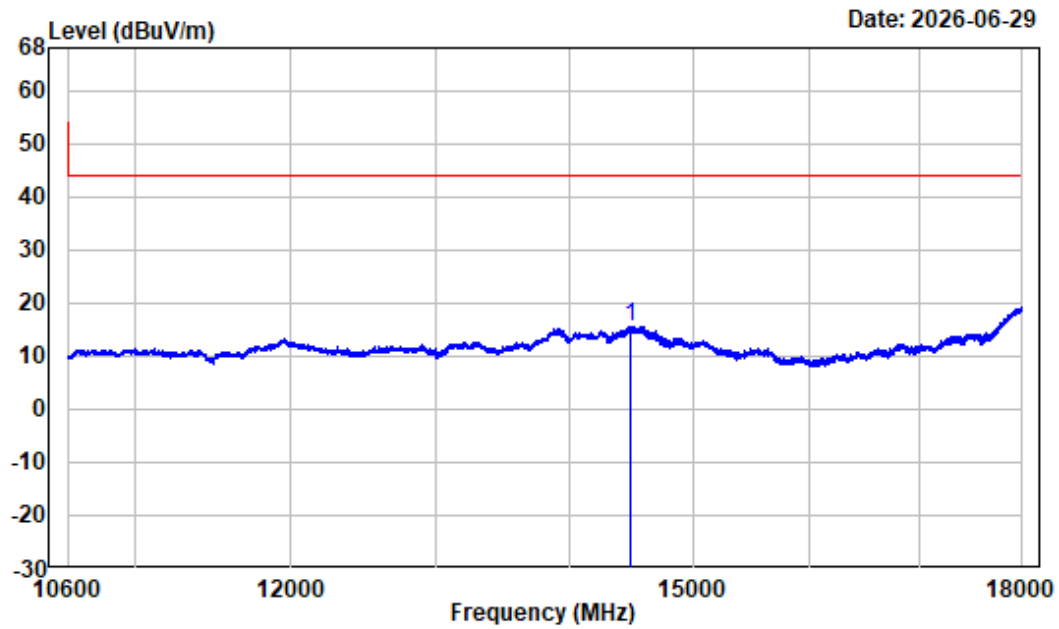
960MHz~10.6GHz _ Vertical



Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1MHz VBW:3MHz Detector:RMS
Note : UWB_7635.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	961.928	-17.37	26.26	8.89	19.90	-11.01	Average
2	1473.863	-16.63	22.31	5.68	19.90	-14.22	Average
3	2004.116	-15.33	38.40	23.07	43.90	-20.83	Average
4	2466.883	-14.04	29.37	15.33	43.90	-28.57	Average
5	3005.813	-13.56	32.96	19.40	43.90	-24.50	Average
6	3860.966	-13.85	31.65	17.80	53.90	-36.10	Average
7	4826.026	-12.10	29.36	17.26	53.90	-36.64	Average
8	5942.450	-9.49	26.67	17.18	53.90	-36.72	Average
9	7975.729	-6.78	52.74	45.96	53.90	-7.94	Average

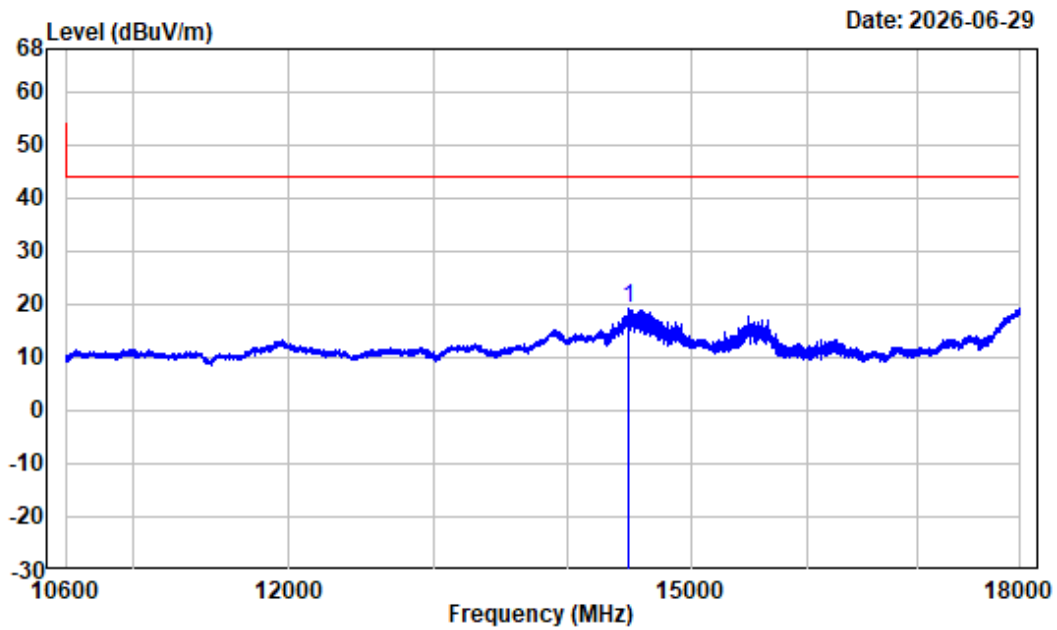
10.6-18GHz_Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
 Note : UWB_7635.5MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	14480.950	-0.85	16.48	15.63	43.90	-28.27	Average

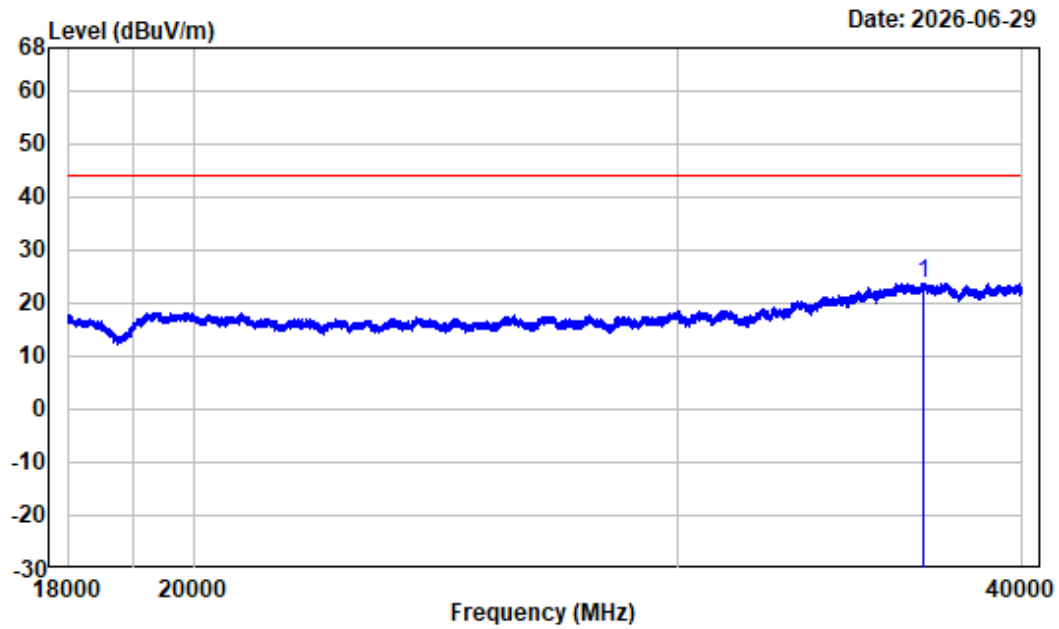
10.6-18GHz_ Vertical



Condition : Vertical
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
 Note : UWB_7635.5MHz

Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 14483.910	-0.85	19.91	19.06	43.90	-24.84	Average

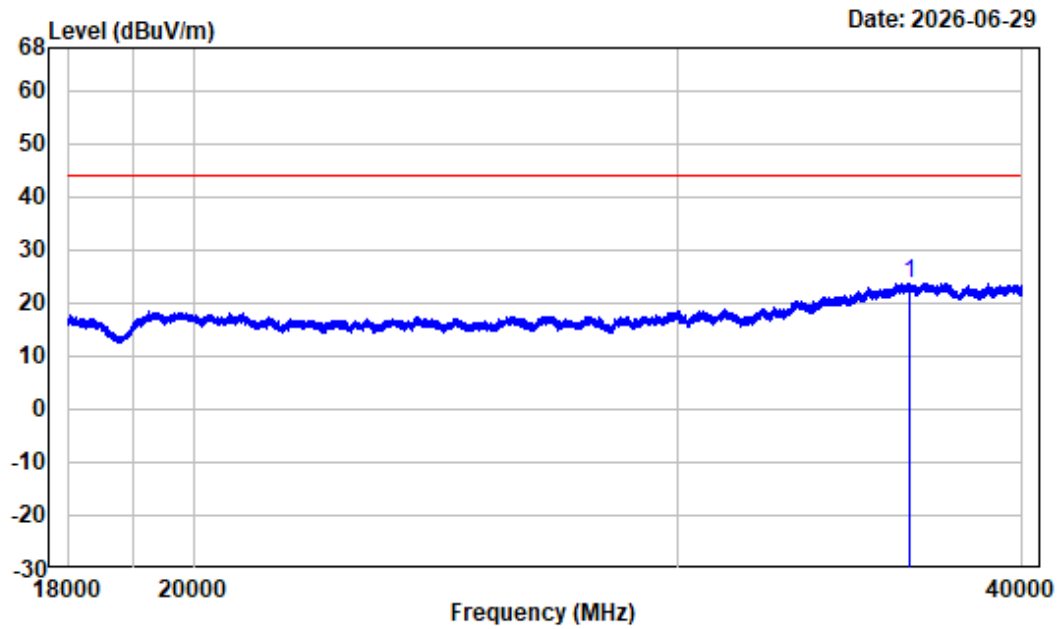
18-40GHz_Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
 Note : UWB_7635.5MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 36850.860	22.88	0.84	23.72	43.90	-20.18	Average

18-40GHz_Vertical

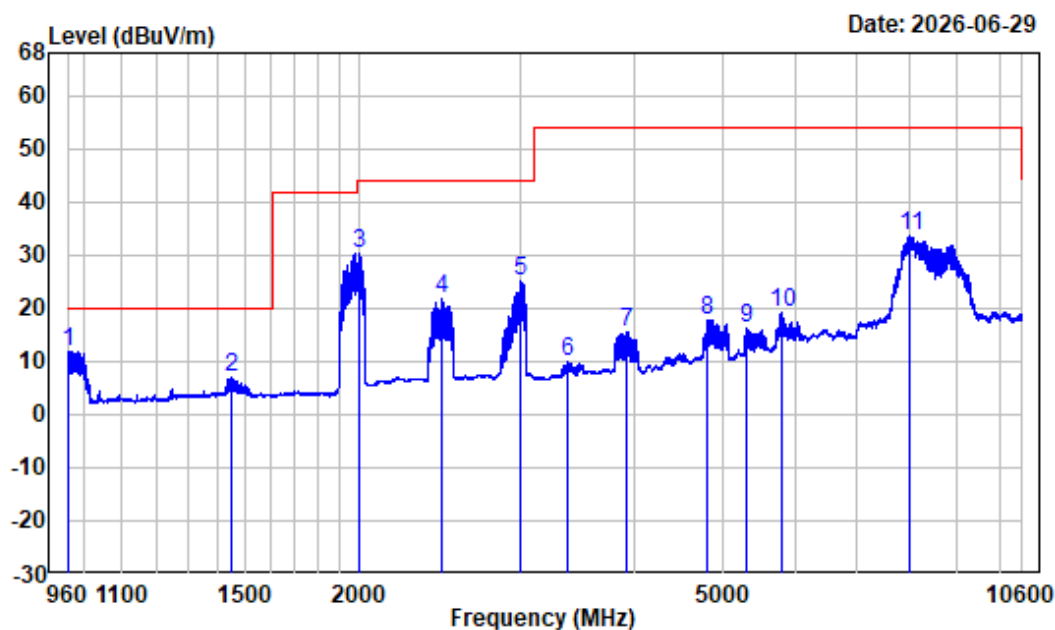


Condition : Vertical
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
 Note : UWB_7635.5MHz

Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 36385.840	23.23	0.56	23.79	43.90	-20.11	Average

8426.5MHz:

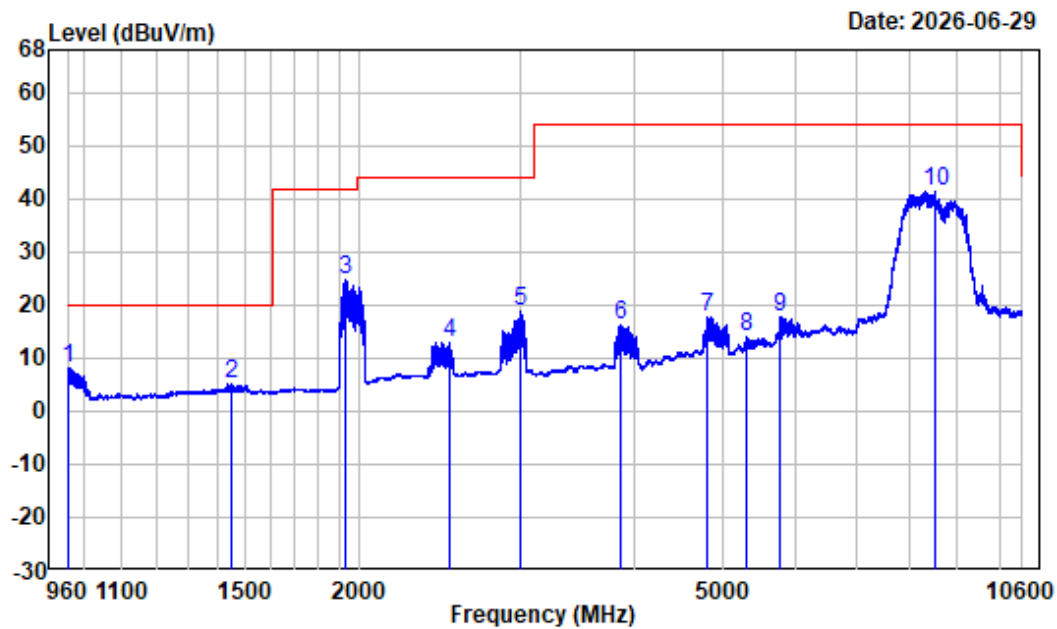
960MHz~10.6GHz Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1MHz VBW:3MHz Detector:RMS
 Note : UWB_8426.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	960.964	-17.37	29.23	11.86	19.90	-8.04	Average
2	1446.869	-16.48	23.61	7.13	19.90	-12.77	Average
3	2003.152	-15.34	45.70	30.36	43.90	-13.54	Average
4	2465.919	-14.04	35.71	21.67	43.90	-22.23	Average
5	3004.848	-13.56	38.58	25.02	43.90	-18.88	Average
6	3376.990	-13.94	23.96	10.02	53.90	-43.88	Average
7	3917.848	-13.73	29.18	15.45	53.90	-38.45	Average
8	4808.673	-12.08	29.89	17.81	53.90	-36.09	Average
9	5306.146	-11.56	27.66	16.10	53.90	-37.80	Average
10	5788.195	-10.17	29.18	19.01	53.90	-34.89	Average
11	8001.760	-6.69	40.24	33.55	53.90	-20.35	Average

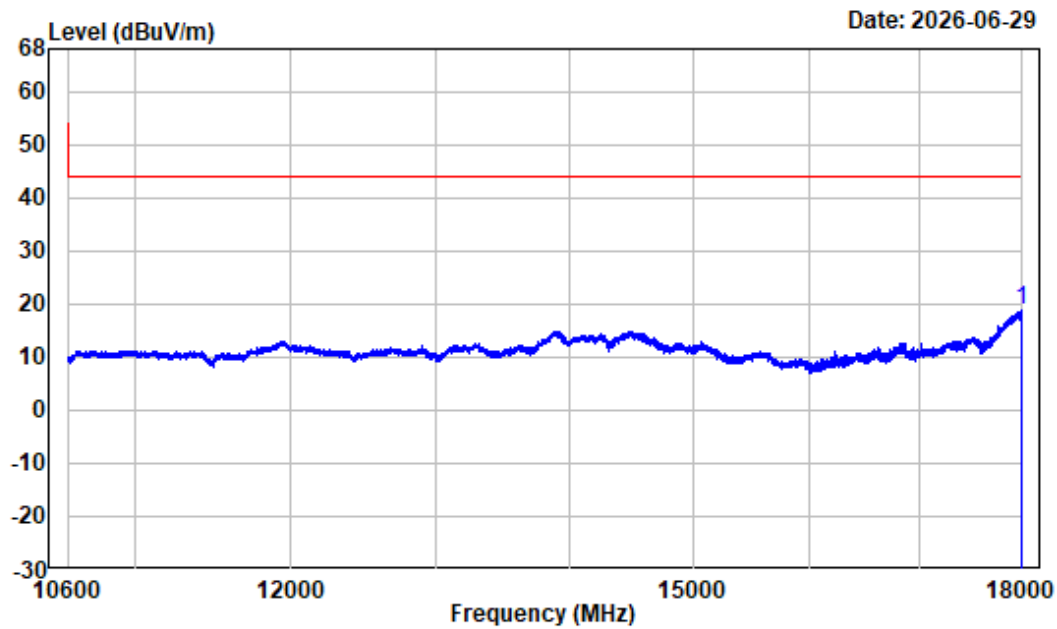
960MHz~10.6GHz _ Vertical



Condition : Vertical
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1MHz VBW:3MHz Detector:RMS
 Note : UWB_8426.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBUV/m	dBUV/m	dB	
1	960.964	-17.37	25.51	8.14	19.90	-11.76	Average
2	1446.869	-16.48	21.69	5.21	19.90	-14.69	Average
3	1928.917	-16.04	40.67	24.63	41.90	-17.27	Average
4	2504.482	-14.13	27.07	12.94	43.90	-30.96	Average
5	3004.848	-13.56	32.37	18.81	43.90	-25.09	Average
6	3859.038	-13.85	30.11	16.26	53.90	-37.64	Average
7	4808.673	-12.08	29.63	17.55	53.90	-36.35	Average
8	5306.146	-11.56	25.68	14.12	53.90	-39.78	Average
9	5769.877	-10.13	27.90	17.77	53.90	-36.13	Average
10	8500.198	-6.31	47.68	41.37	53.90	-12.53	Average

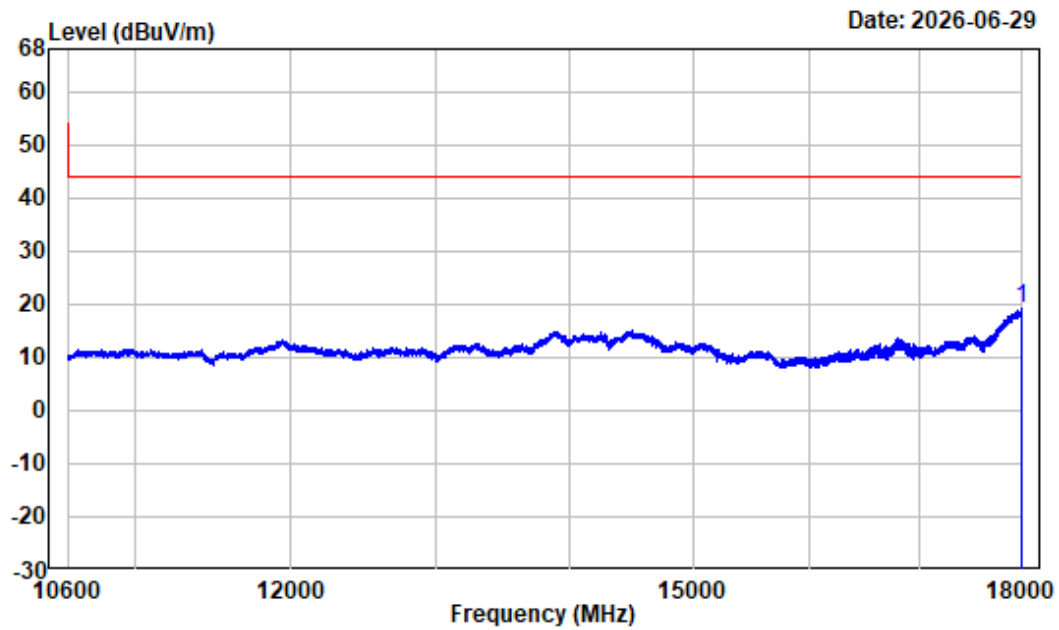
10.6-18GHz_Horizontal



Condition : Horizontal
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
Note : UWB_8426.5MHz

Freq		Factor	Read	Limit	Over	Remark
			Level	Level	Line	
MHz		dB/m	dBuV	dBuV/m	dBuV/m	dB
1 17993.340		4.15	14.52	18.67	43.90	-25.23 Average

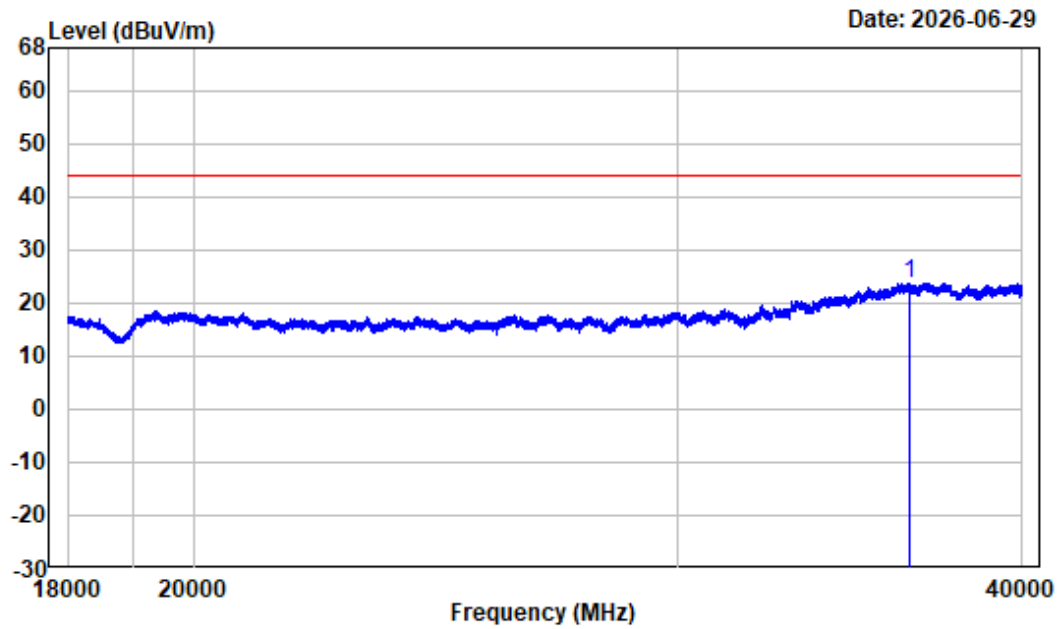
10.6-18GHz_ Vertical



Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
Note : UWB_8426.5MHz

Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 17999.260	4.19	15.17	19.36	43.90	-24.54	Average

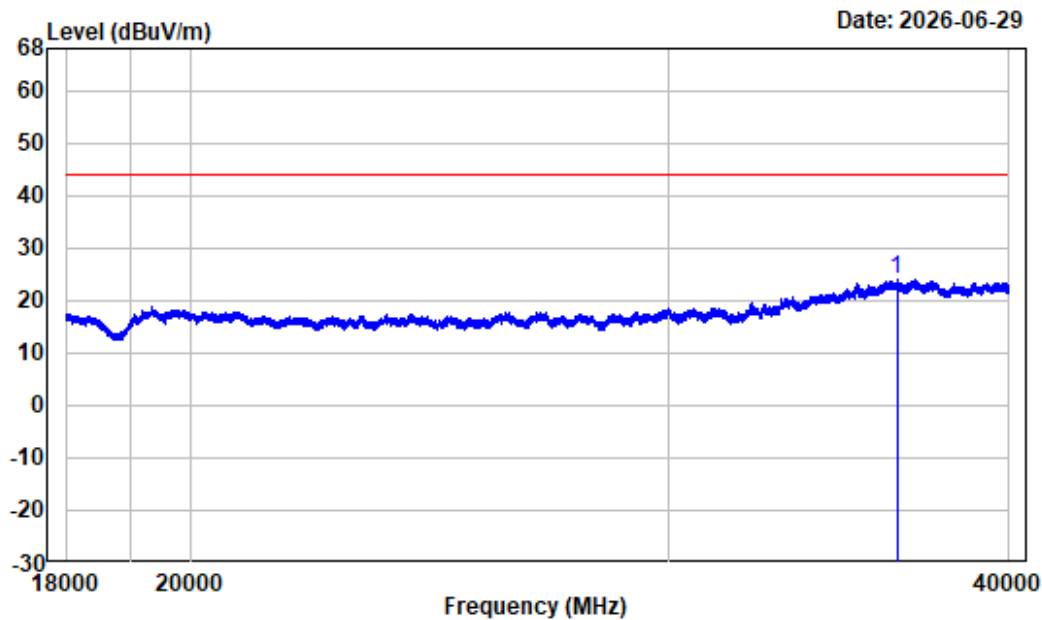
18-40GHz_Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
 Note : UWB_8426.5MHz

Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 36385.840	23.23	0.56	23.79	43.90	-20.11	Average

18-40GHz_Vertical



Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:100KHz VBW:300KHz Detector:RMS
Note : UWB_8426.5MHz

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 36375.840	23.24	0.83	24.07	43.90	-19.83	Average

Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Levl = Factor + Read Level
Over Limit = Level - Limit
The other spurious emission which is in the noise floor level was not recorded.

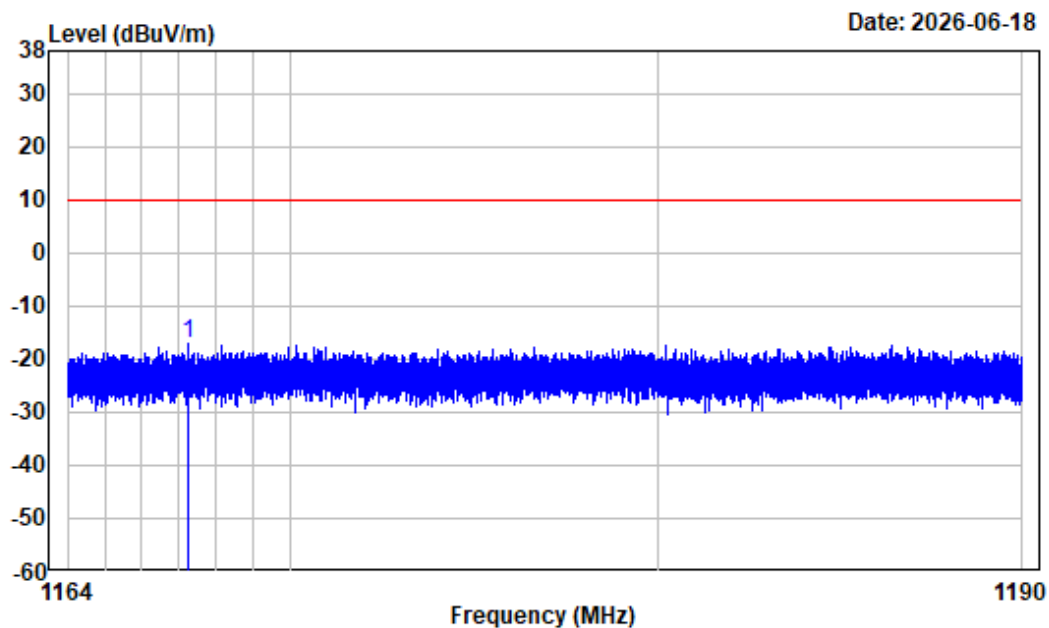
Spurious radiated emission above 960MHz in GPS band:

1. The test distance is 0.5m, so the correct factor from 3m to 0.5m is $20\log(3/0.5)=15.56\text{dB}$ which was added into the offset on the spectrum analyzer.
2. $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters. The unit of final result on the test plots are $\text{dB}\mu\text{V/m}$, so the limit should be added by 95.2 dB from dB m to $\text{dB}\mu\text{V/m}$.
3. The antenna factor, cable loss and preamplifier gain have been entered into the analyzer as the transducer factor.

7635.5MHz:

1164MHz-1190MHz:

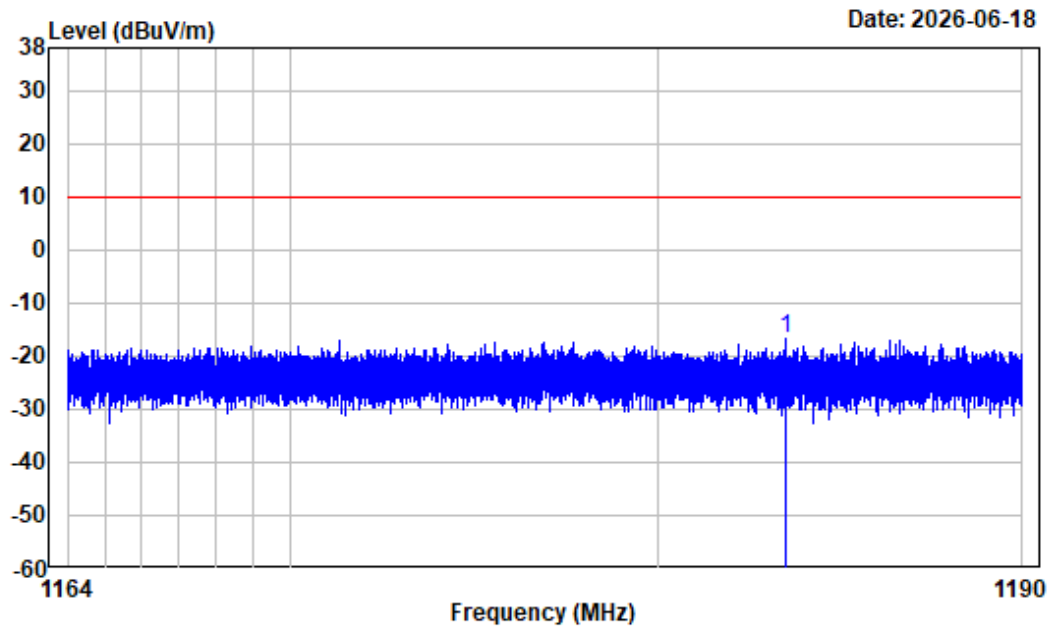
Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_7635.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1167.276	-15.26	-1.85	-17.11	9.90	-27.01	Average

Vertical

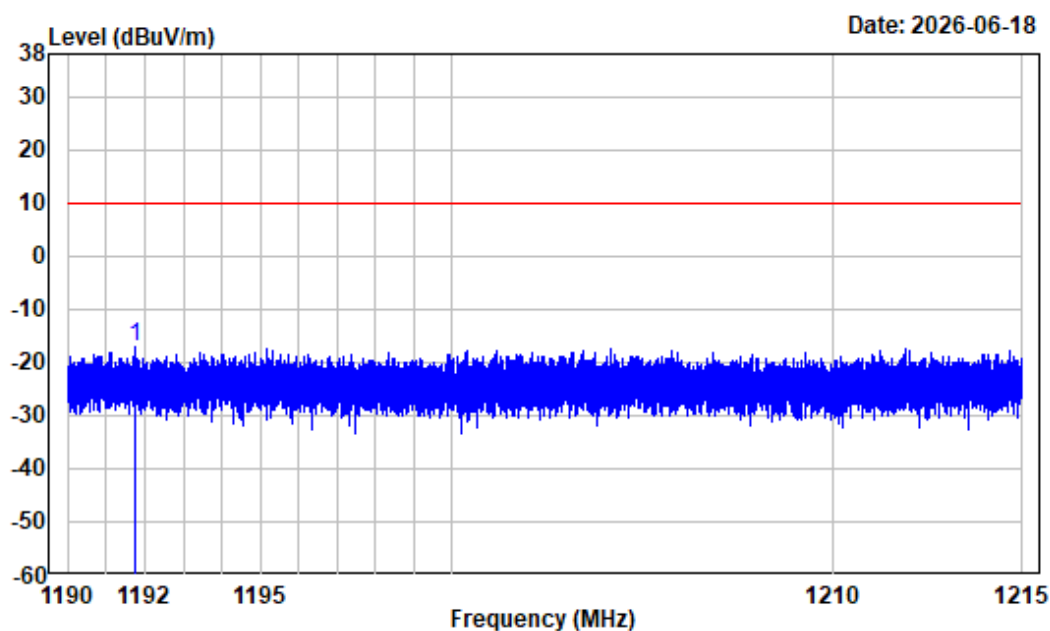


Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_7635.5MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1183.511	-15.20	-1.38	-16.58	9.90	-26.48	Average

1190-1215MHz:

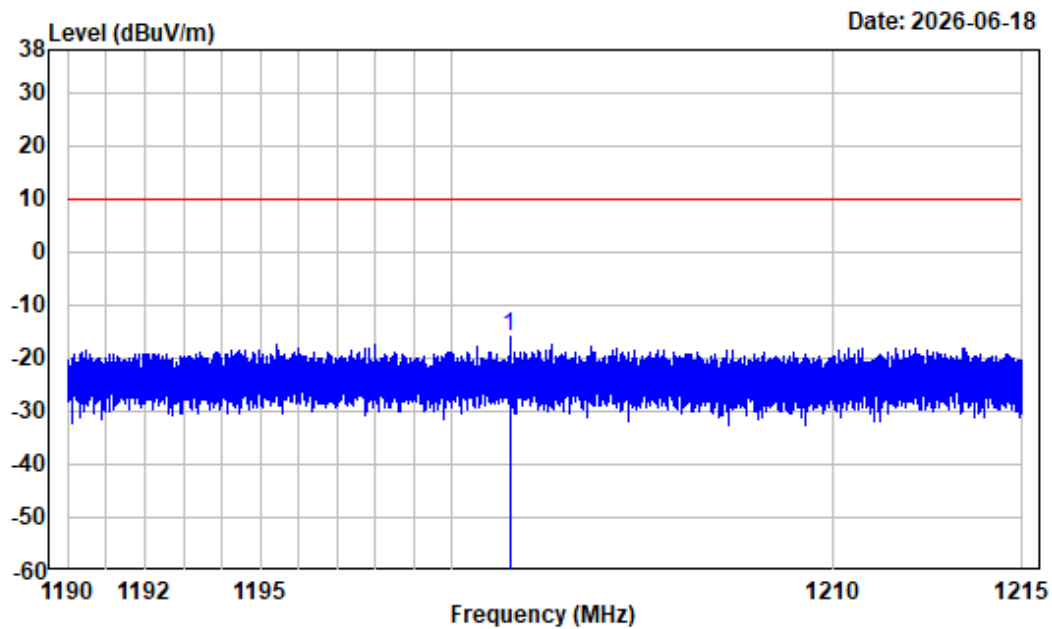
Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_7635.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1191.755	-15.17	-1.79	-16.96	9.90	-26.86	Average

Vertical

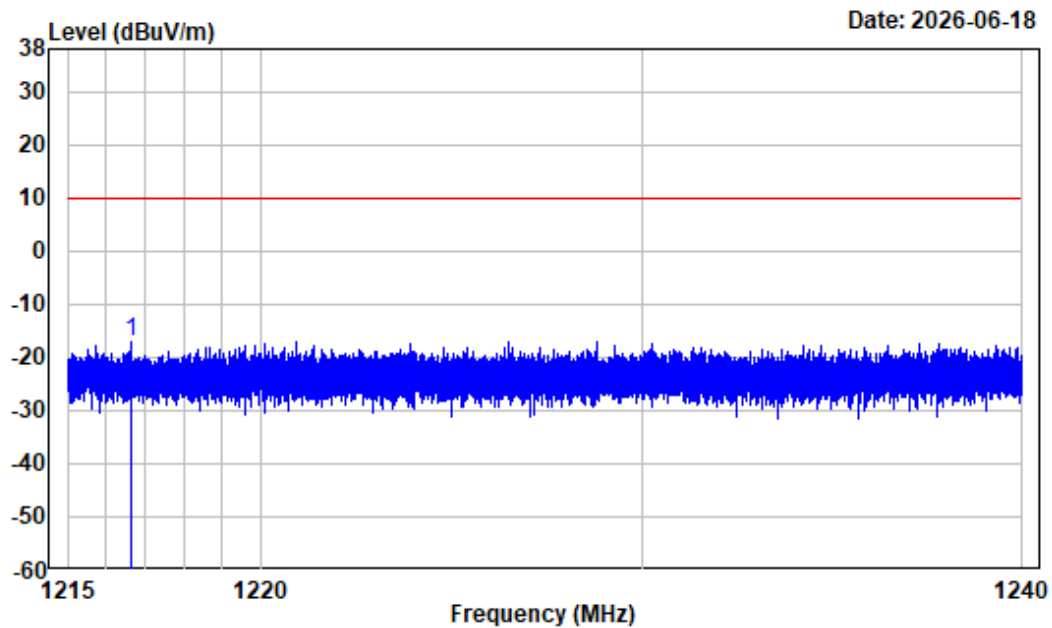


Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_7635.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1201.510	-15.12	-1.03	-16.15	9.90	-26.05	Average

1215-1240MHz:

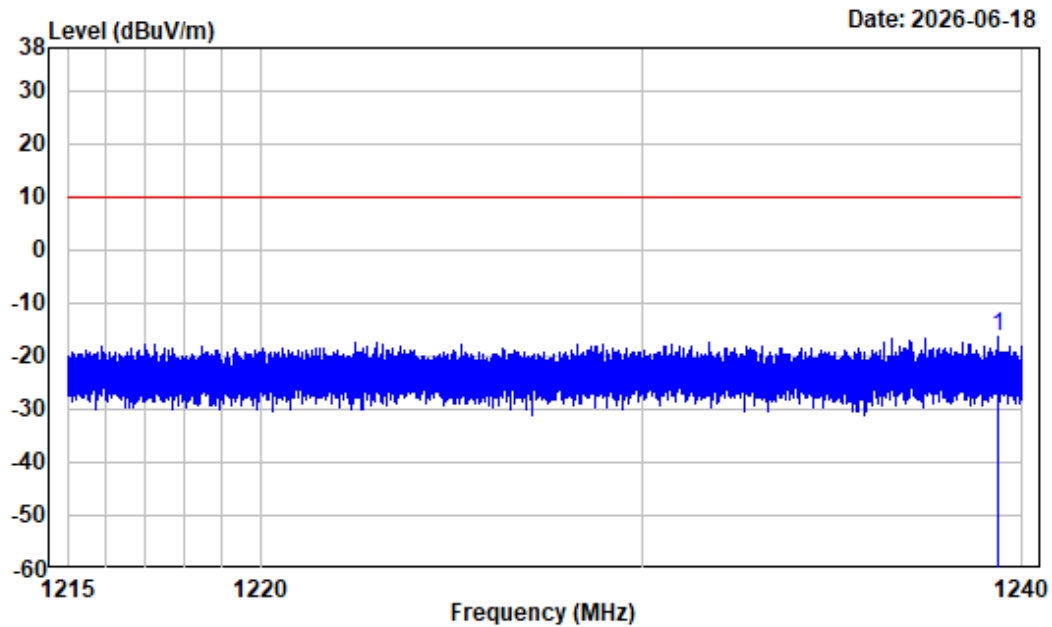
Horizontal



Condition : Horizontal
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_7635.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1216.650	-14.95	-2.11	-17.06	9.90	-26.96	Average

Vertical

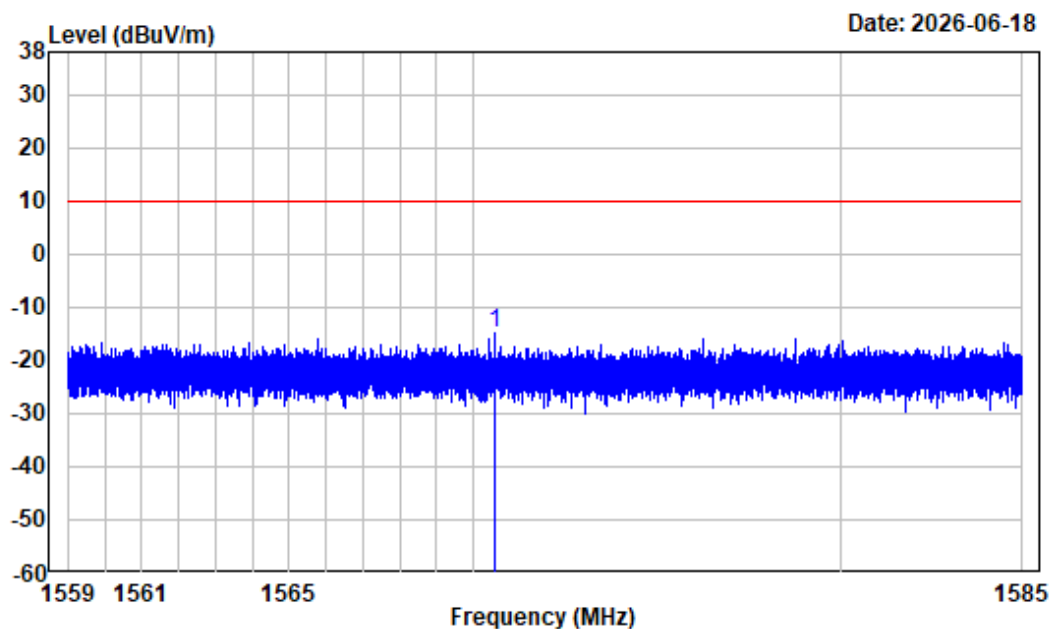


Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_7635.5MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1239.365	-14.71	-1.62	-16.33	9.90	-26.23	Average

1559-1585MHz:

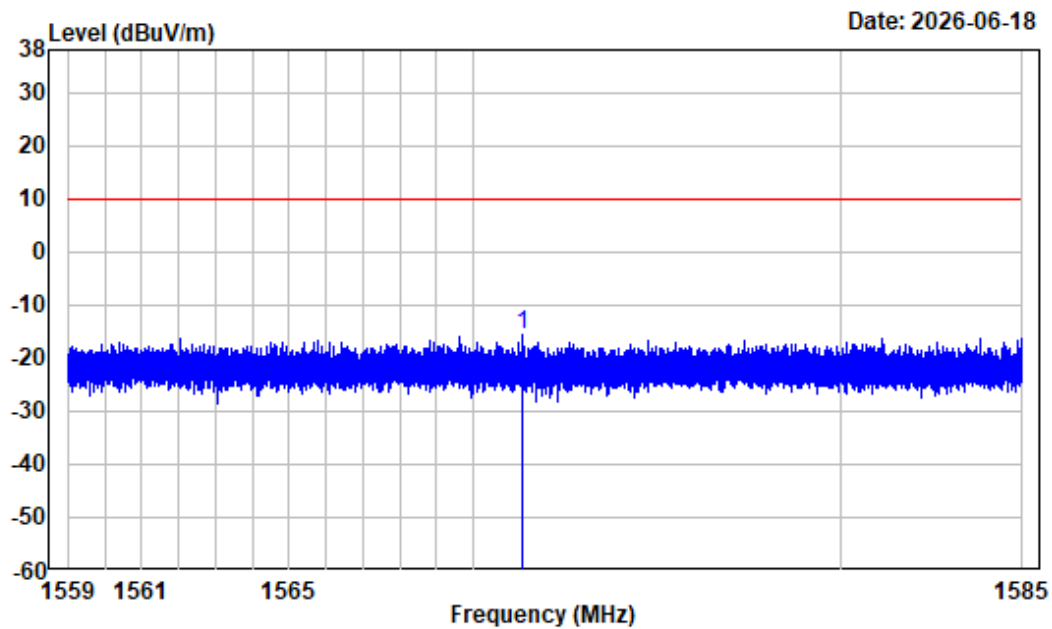
Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_7635.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1570.582	-14.19	-0.60	-14.79	9.90	-24.69	Average

Vertical

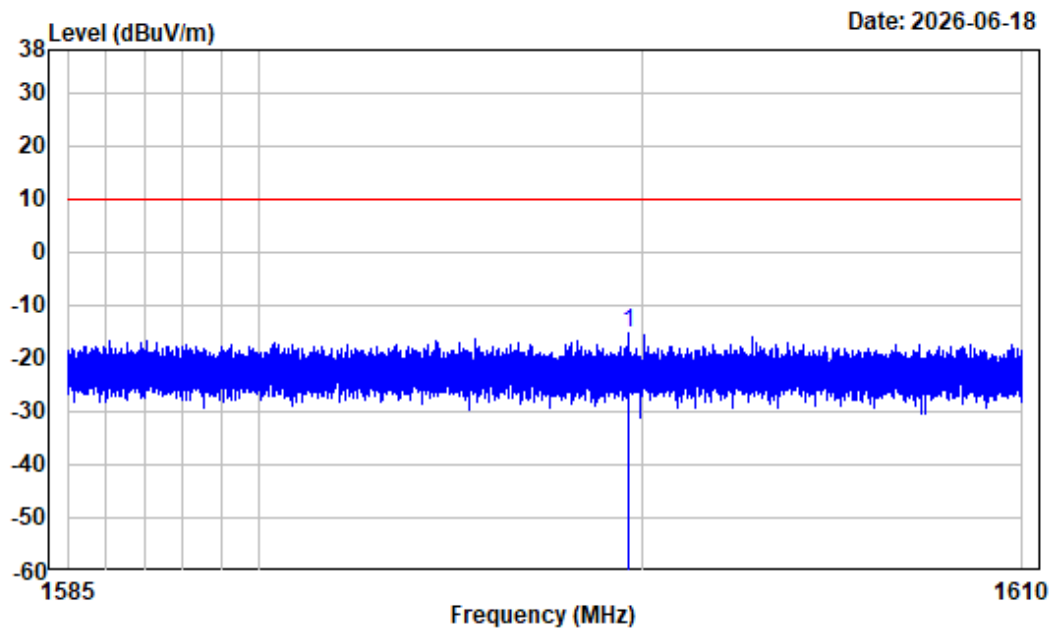


Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_7635.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1571.336	-14.20	-1.57	-15.77	9.90	-25.67	Average

1585-1610MHz:

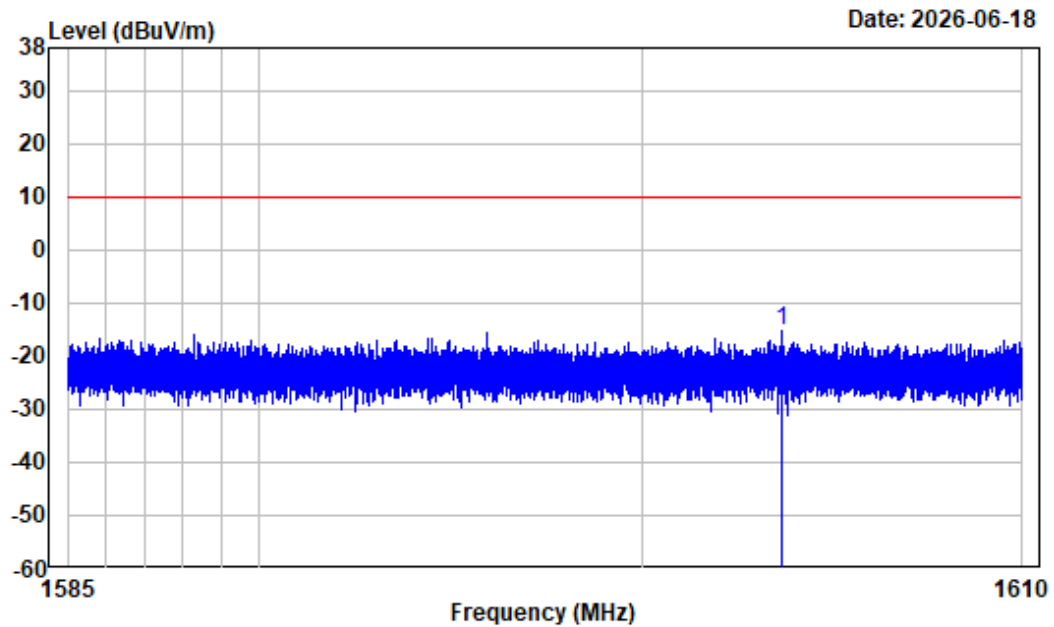
Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_7635.5MHz

Freq		Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz		dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1599.635	-14.34	-0.77	-15.11	9.90	-25.01	Average

Vertical



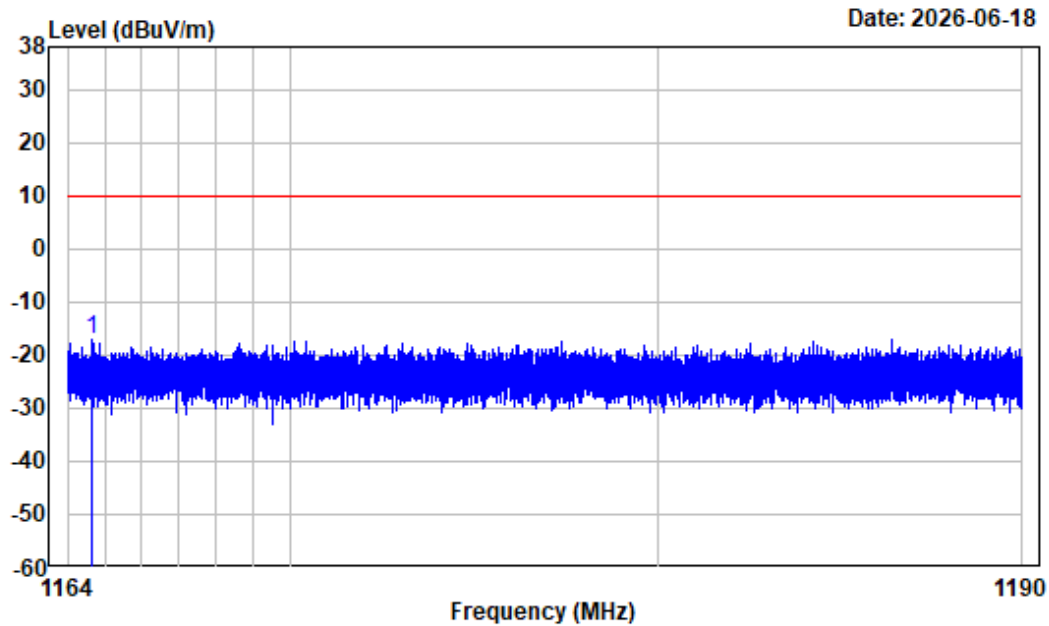
Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_7635.5MHz

Freq		Factor	Read Level	Level	Limit	Over	Remark
			dBuV	dBuV/m	dBuV/m	Limit	
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	1603.669	-14.32	-1.07	-15.39	9.90	-25.29	Average

8426.5MHz:

1164MHz-1190MHz:

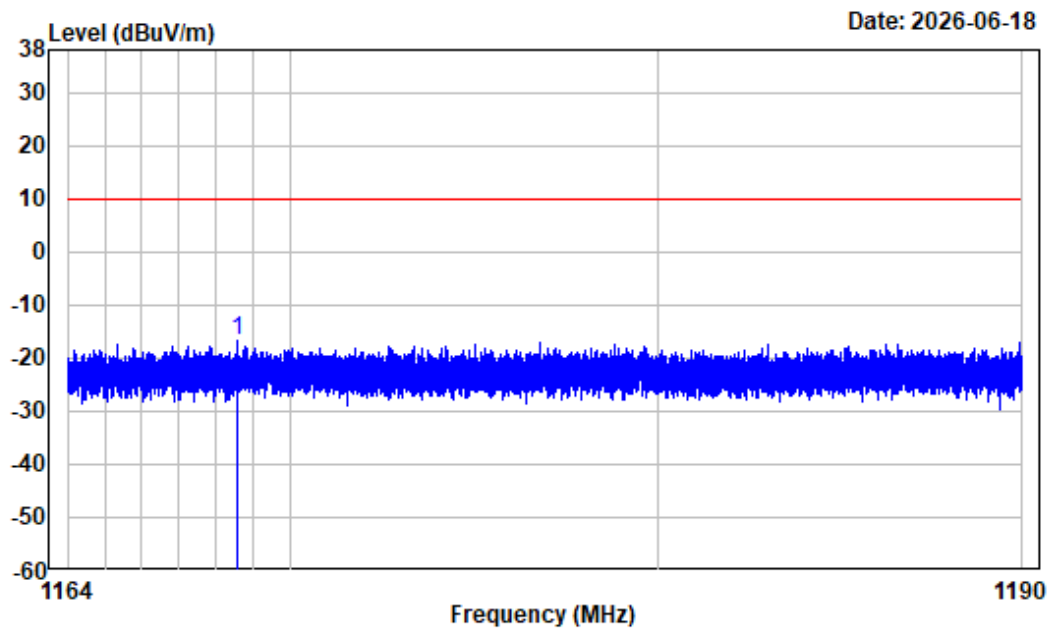
Horizontal



Condition : Horizontal
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_8426.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1164.636	-15.27	-1.80	-17.07	9.90	-26.97	Average

Vertical

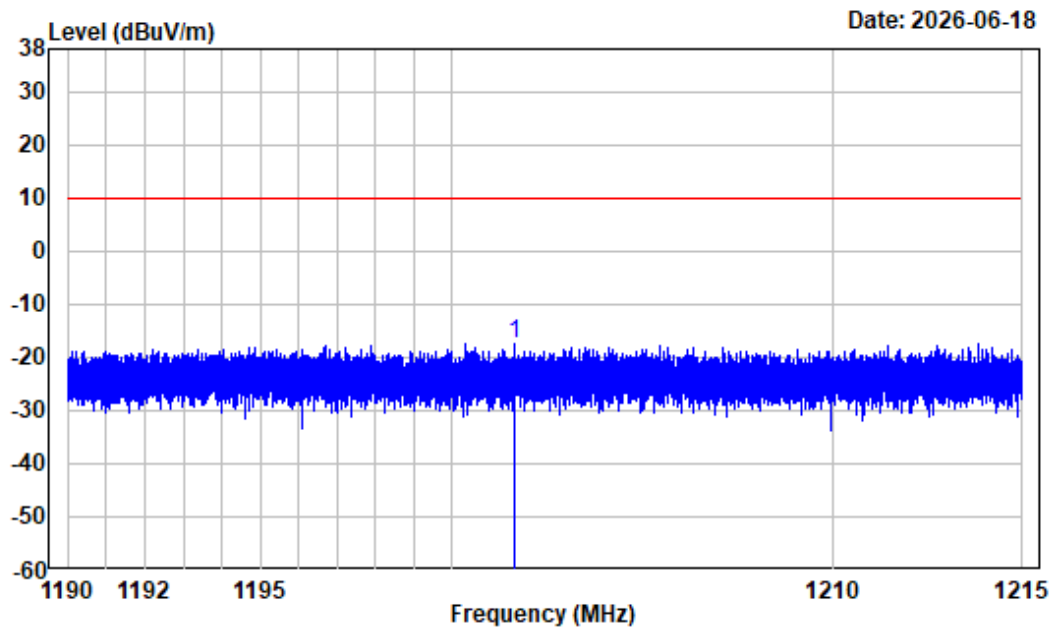


Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_8426.5MHz

		Read	Limit	Over		
Freq	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1168.559	-15.25	-1.53	-16.78	9.90	-26.68 Average

1190-1215MHz:

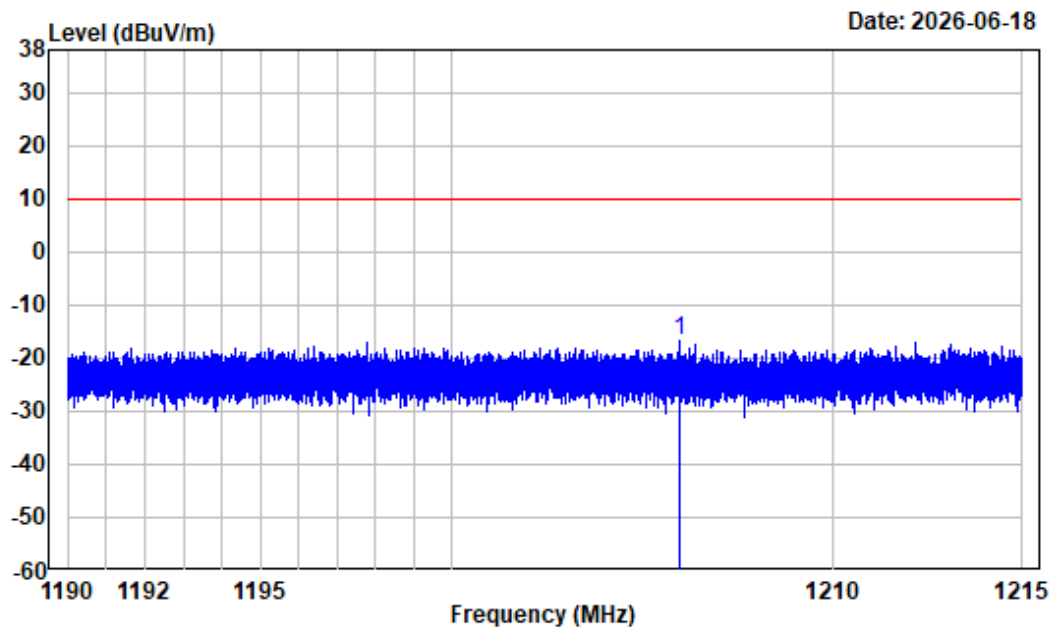
Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_8426.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1201.661	-15.12	-2.37	-17.49	9.90	-27.39	Average

Vertical

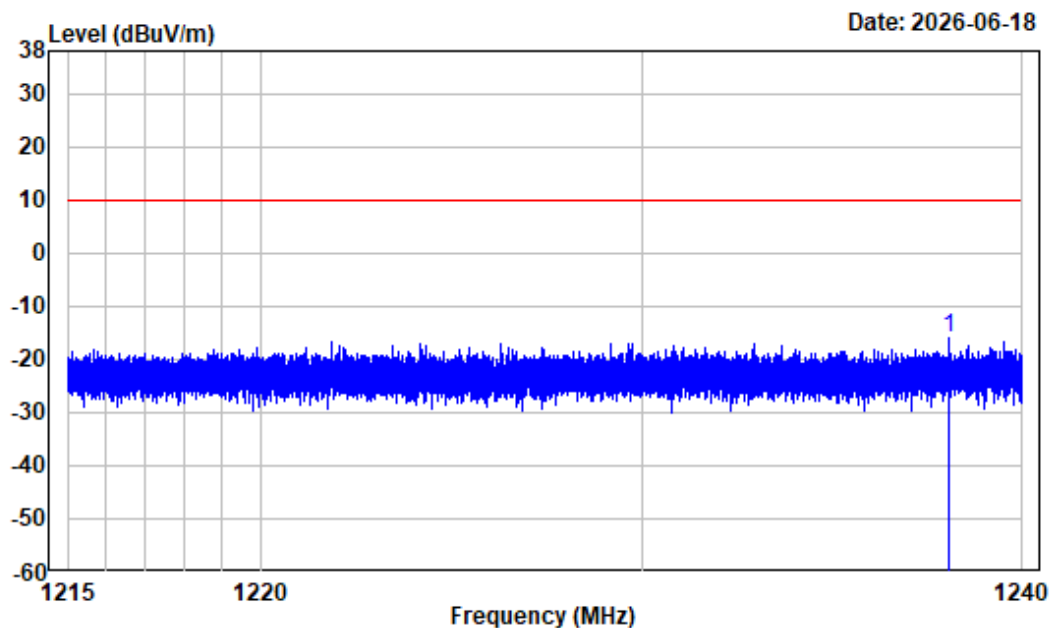


Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_8426.5MHz

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 1205.969	-15.07	-1.60	-16.67	9.90	-26.57	Average

1215-1240MHz:

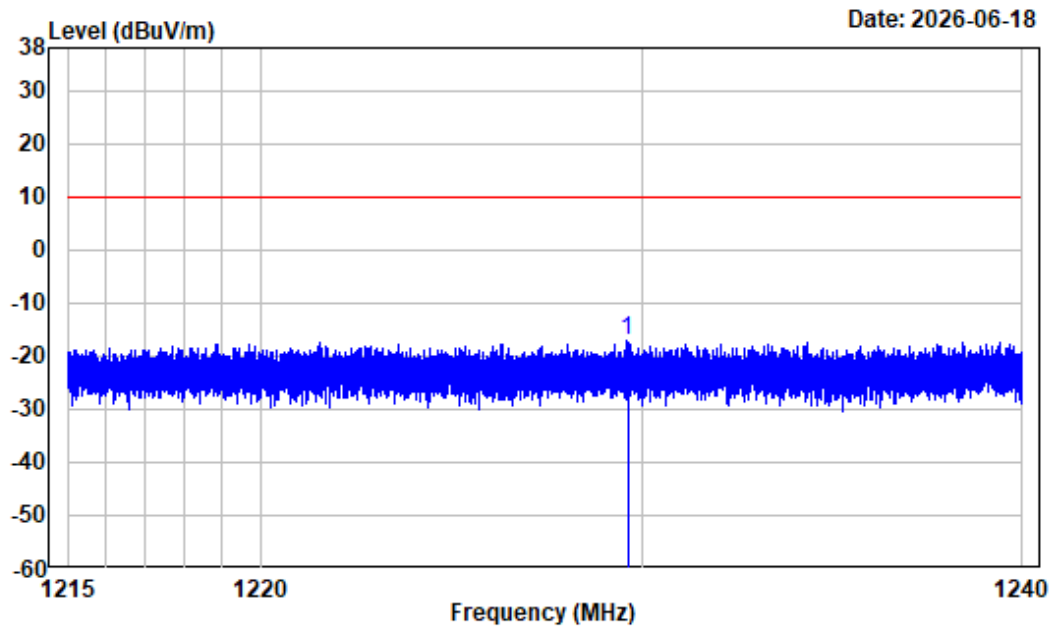
Horizontal



Condition : Horizontal
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_8426.5MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1238.054	-14.72	-1.12	-15.84	9.90	-25.74	Average

Vertical

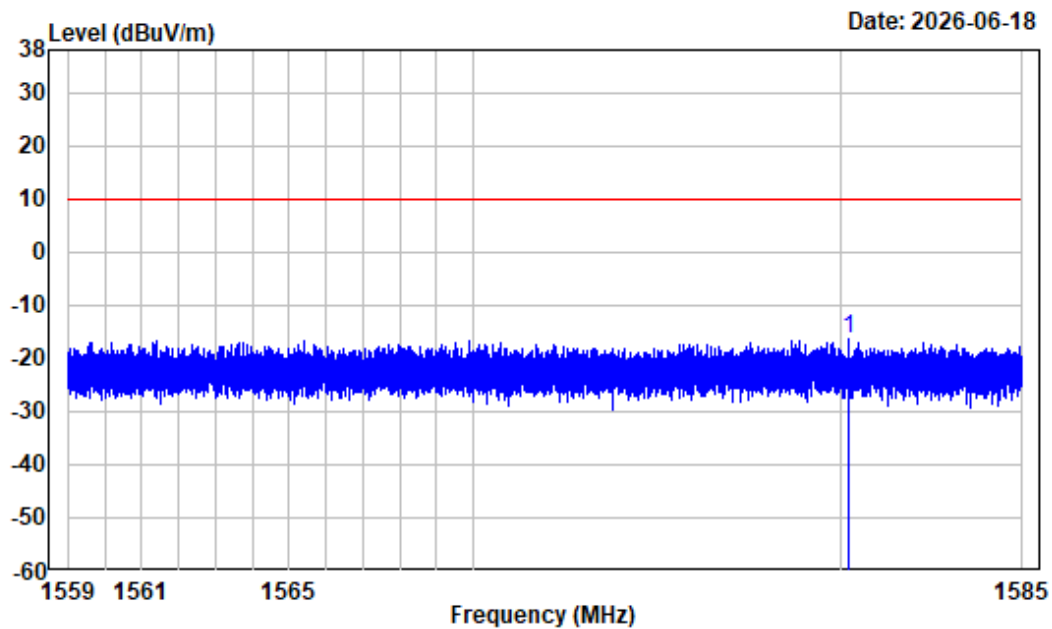


Condition : Vertical
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_8426.5MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1229.601	-14.81	-2.34	-17.15	9.90	-27.05	Average

1559-1585MHz:

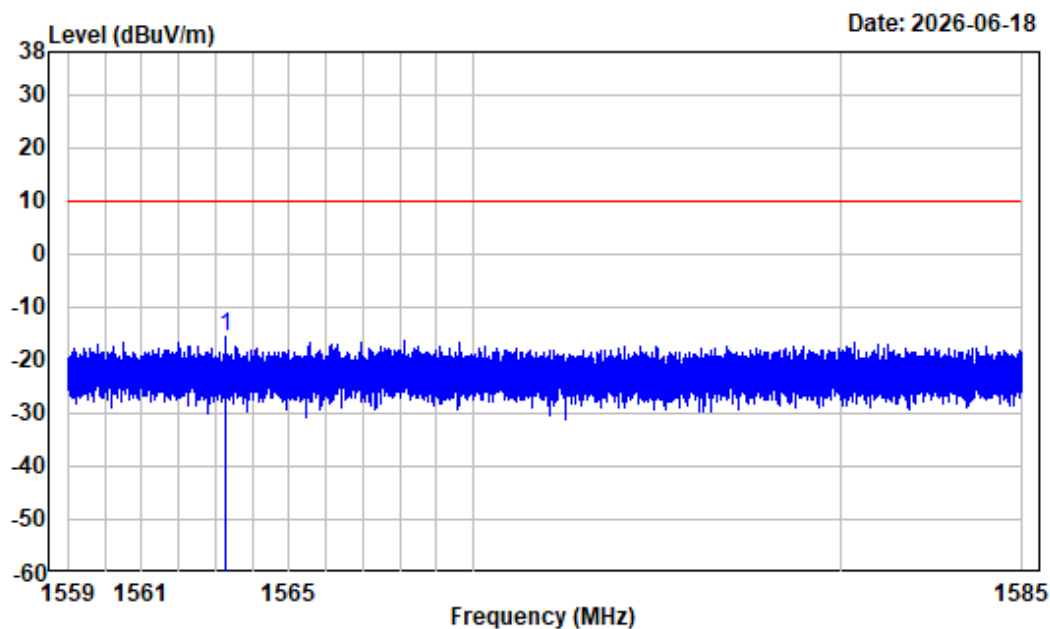
Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_8426.5MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1580.256	-14.24	-2.02	-16.26	9.90	-26.16	Average

Vertical

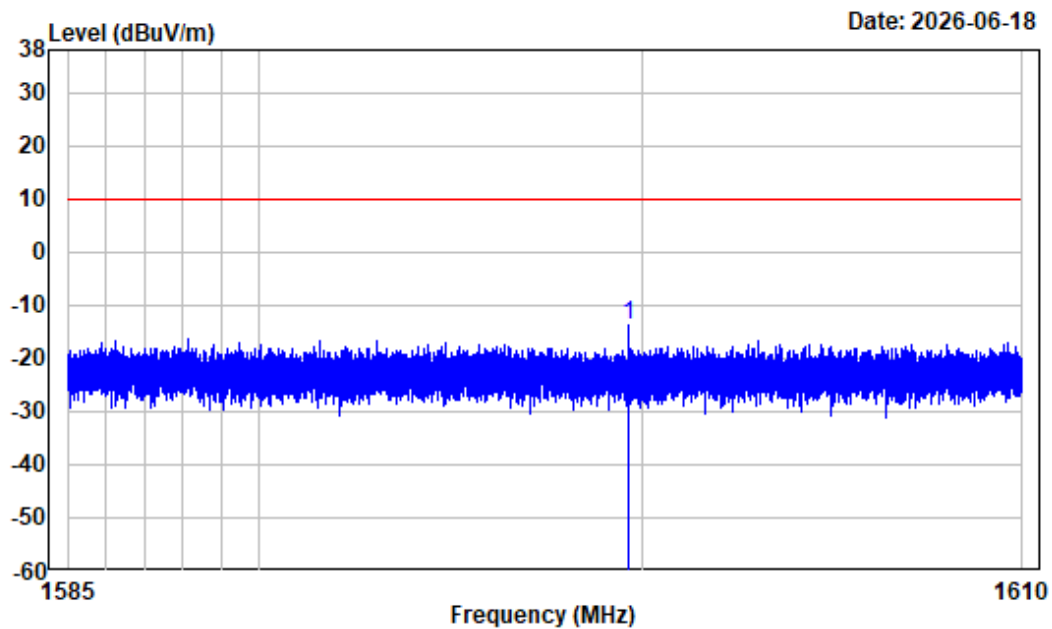


Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_8426.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1563.285	-14.16	-1.32	-15.48	9.90	-25.38	Average

1585-1610MHz:

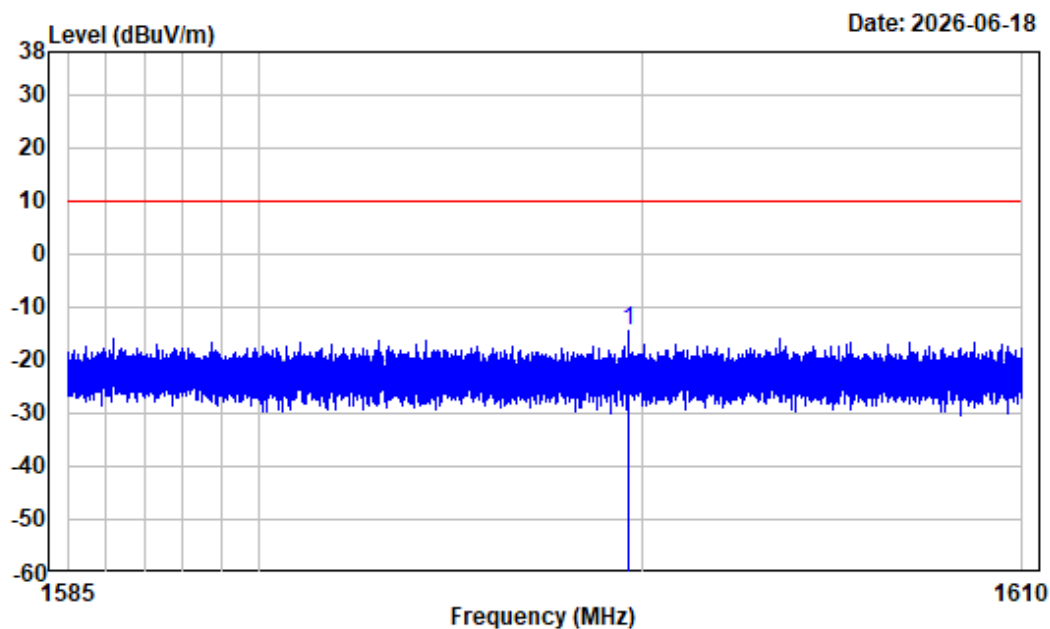
Horizontal



Condition : Horizontal
 Project No. : 2501X13479E-RF
 Tester : Wing K Ji
 Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
 Note : GPS_8426.5MHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1599.636	-14.34	0.55	-13.79	9.90	-23.69	Average

Vertical



Condition : Vertical
Project No. : 2501X13479E-RF
Tester : Wing K Ji
Spectrum setting: RBW:1kHz VBW:3kHz Detector:RMS
Note : GPS_8426.5MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1599.634	-14.34	-0.19	-14.53	9.90	-24.43	Average

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Levle = Factor + Read Level

Over Limit = Level - Limit

The other spurious emission which is in the noise floor level was not recorded.

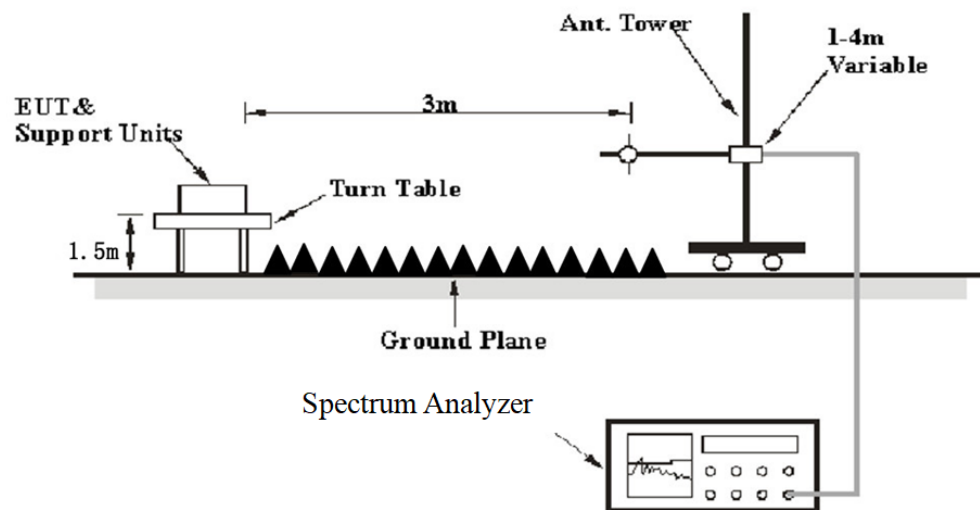
FCC §15.517(e) - MAXIMUM PEAK EMISSION(PEAK EIRP)

Applicable Standard

According to FCC § 15. 517 (e), There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_M . That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in §15.521.

Test Procedure

Refer to the ANSI C63.10-2020 Section 10.3.5.



Test Data

Environmental Conditions

Temperature:	25.6°C
Relative Humidity:	54 %
ATM Pressure:	100.2 kPa

The testing was performed by Wing K Ji on 2026-06-29.

EUT operation mode: Transmitting

Test result: Pass.

Please refer to follow tables and plots:

Peak:

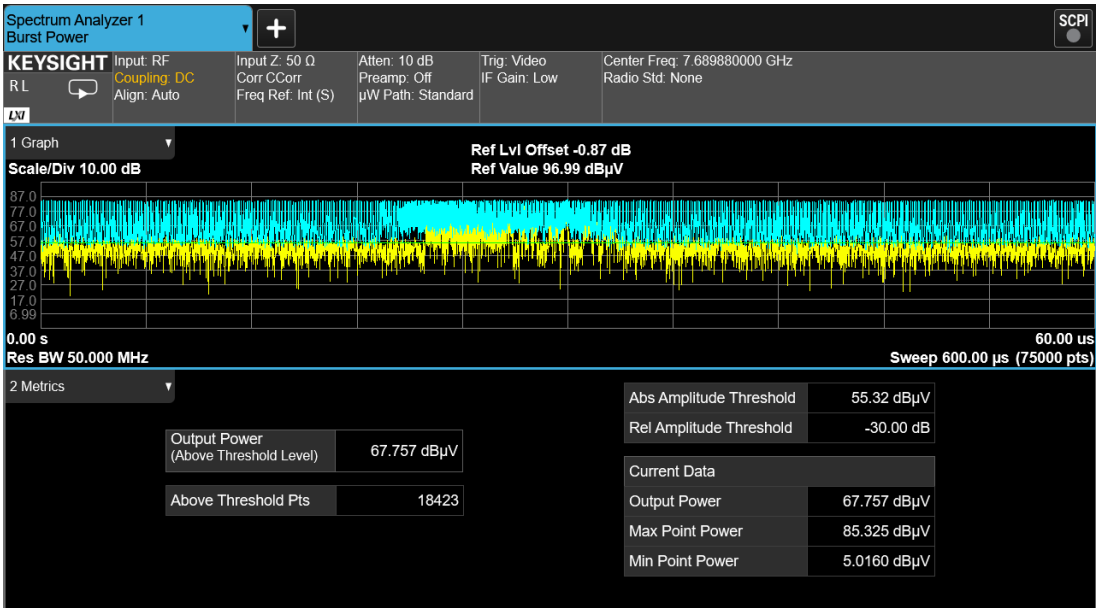
Frequency (MHz)	E (dBμV/m) RBW=50MHz	EIRP (dBm/50MHz)	Limit dBm/50MHz
7635.5MHz			
7689.88	85.325	-9.875	0
8426.5MHz			
8315.13	82.355	-12.845	0

Note: 1. $E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, for $d = 3$ meters.

2. The antenna factor, cable loss and preamplifier gain have been entered into the analyzer as the transducer factor.

3. The test distance is 3m

7635.5MHz



8426.5MHz



EUT PHOTOGRAPHS

Please refer to the attachment 2501X13479E-RF-EXP External photo and 2501X13479E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501X13479E-RF-TSP Test Setup photo.

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