TEST REPORT

Applicant Name:	LEADER ELECTRONICS CORP.
Address:	NO.8 YUANSHAN RD, KUNSHAN, JIANGSU, China
Report Number:	2501T28710E-RF-00
FCC ID:	2AR5U-DOCK170XWC15W

Test Standard (s)

FCC Part 15C

Sample Description

Product Type:	DOCK-170 Series
Model No.:	DOCK-170*-WC15W01-WHS
Multiple Model(s) No.:	please refer to Product Description for Equipment under Test (EUT)
Trade Mark:	National Lighting MOD
Date Received:	2025/05/21
Issue Date:	2025/12/29

Test Result:	Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Bruce Lin

Bruce Lin
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	2501T28710E-RF-00	Original Report	2025/12/29

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	DOCK-170 Series
Tested Model	DOCK-170*-WC15W01-WHS
Multiple Model(s)	DOCK-170*-WC15W01-BKS For DOCK-1700-SASBSCCCSDDD Series : DOCK-1700-TT-WHS, DOCK-1700-TT-BKS, DOCK-1700-PM-BKS, DOCK-1700-PM-WHS, DOCK-1700-Q-PM-SL, DOCK-1700-Q-STT-SL, DOCK-1700-Q-TT-SL, DOCK-1700-S-PM-BKS, DOCK-1700-S-STT-WHS, DOCK-1700-S-TT-BKS, DOCK-1700-STT-BKS, DOCK-1700-STT-WHS For DOCK-1705-SASBSCCCSDDD Series : DOCK-1705-P-TT-WHS, DOCK-1705-P-TT-BKS, DOCK-1705-P-PM-BKS, DOCK-1705-P-PM-WHS, DOCK-1705-Q-P-PM-SL, DOCK-1705-Q-P-TT-SL, DOCK-1705-S-P-PM-WHS, DOCK-1705-S-P-TT-BKS, DOCK-1705-S-P-TT-WHS
Frequency Range	110.5-205kHz, 360kHz
Antenna Type	Coil
Input Voltage	AC 120V 60Hz
Output Power	110.5-205kHz: 5Watts, 10Watts 360kHz: 15Watts
Sample serial number	DOCK-170*-WC15W01-WHS:334Y-1 DOCK-1705-P-TT-WHS:334Y-2 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The Multiple models are electrically identical with the test model except for power plug type, surge protection, mounting options and color. Please refer to the declaration letter# for more detail, which was provided by manufacturer.	

Objective

This test report is in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of EUT with FCC rules, section 15.203, 15.205, 15.207 and 15.209.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and KDB 680106 D01 Wireless Power Transfer v04.

Measurement Uncertainty

Parameter		Uncertainty
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz – 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)
Temperature		±1℃
Humidity		±1%
Supply voltages		±0.4%
Nerve Simulation	H-Field	0.74dB(k=2, 95% level of confidence)
	E-Field	1.14dB(k=2, 95% level of confidence)

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, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode.

The multiple EUT model can generally divide to three groups:

The DOCK-170 Series main models, include model DOCK-170*-WC15W01-WHS, DOCK-170*-WC15W01-BKS, within this EUT group, all models is electrical identical except for color, detail refer the DOS provided by applicant.

The DOCK-1700-SASBSCCCSDDD Series, include model DOCK-1700-TT-WHS, DOCK-1700-TT-BKS, DOCK-1700-PM-BKS, DOCK-1700-PM-WHS, DOCK-1700-Q-PM-SL, DOCK-1700-Q-STT-SL,DOCK-1700-Q-TT-SL, DOCK-1700-S-PM-BKS, DOCK-1700-S-STT-WHS,DOCK-1700-S-TT-BKS, DOCK-1700-STT-BKS, DOCK-1700-STT-WHS, within this EUT group, all models is electrical identical except for power plug type, mounting options and color, detail refer the DOS provided by applicant.

The DOCK-1705-SASBSCCCSDDD Series, include model DOCK-1705-P-TT-WHS, DOCK-1705-P-TT-BKS, DOCK-1705-P-PM-BKS, DOCK-1705-P-PM-WHS, DOCK-1705-Q-P-PM-SL, DOCK-1705-Q-P-TT-SL, DOCK-1705-S-P-PM-WHS, DOCK-1705-S-P-TT-BKS, DOCK-1705-S-P-TT-WHS, within this EUT group, all models is electrical identical except for power plug type, mounting options and color, detail refer the DOS provided by applicant.

The three groups are electrical identical, the difference is that the DOCK-1705 series with one more surge protection.

Model DOCK-170*-WC15W01-WHS was select to full test, model DOCK-1705-P-TT-WHS was select to check for with surge protection.

EUT Exercise Software

No software used in test.

Local Support Equipment

Manufacturer	Description	Model	Serial Number
OUPU	SOCKET	PDU-OP1606K	6971041358020
Unknown	WPT Load	Unknown	Unknown
BACL	Load 1/2/3	Unknown	Unknown
Unknown	Load 4/5	Unknown	Unknown
APPLE	iPhone 15	MTLJ3CH/A	Unknown
APPLE	iPhone 11	F4GZL7AQN73Y	Unknown
Unknown	Load 6/7/8/9	Unknown	Unknown

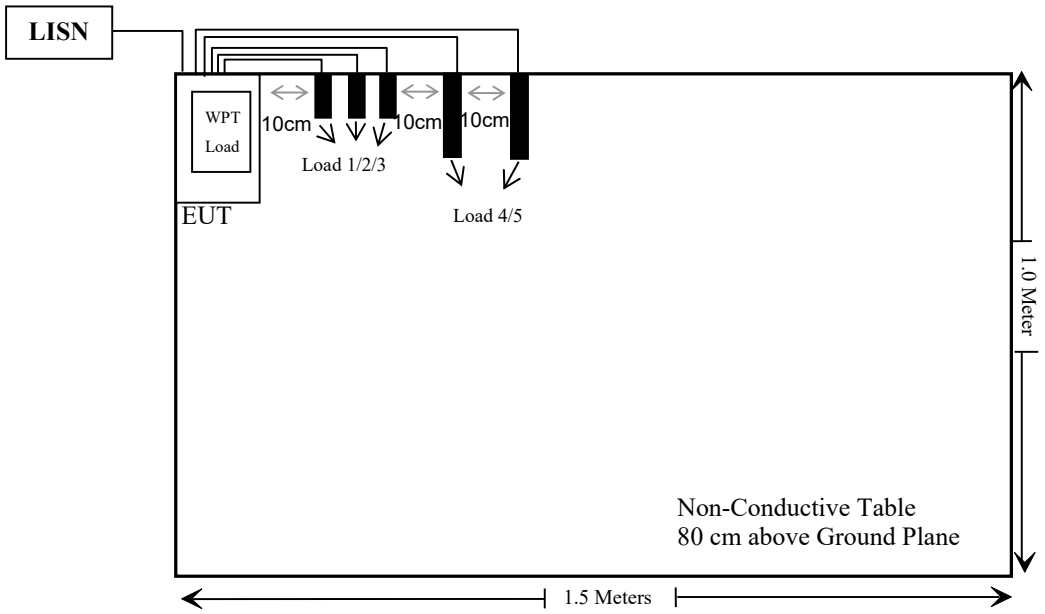
External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Un-detachable AC cable	1.2	Socket	AC Mains
Unshielded detachable AC cable	1.5	EUT	Socket /LISN
Unshielded detachable USB cable	0.15	EUT	Load1
Unshielded detachable USB cable	0.15	EUT	Load2
Unshielded detachable USB cable	0.15	EUT	Load3
Unshielded detachable AC cable	1.0	EUT	Load4
Unshielded detachable AC cable	1.0	EUT	Load5
Unshielded detachable AC cable	1.0	EUT	Load6
Unshielded detachable AC cable	1.0	EUT	Load7
Unshielded detachable AC cable	1.0	EUT	Load8
Unshielded detachable AC cable	1.0	EUT	Load9

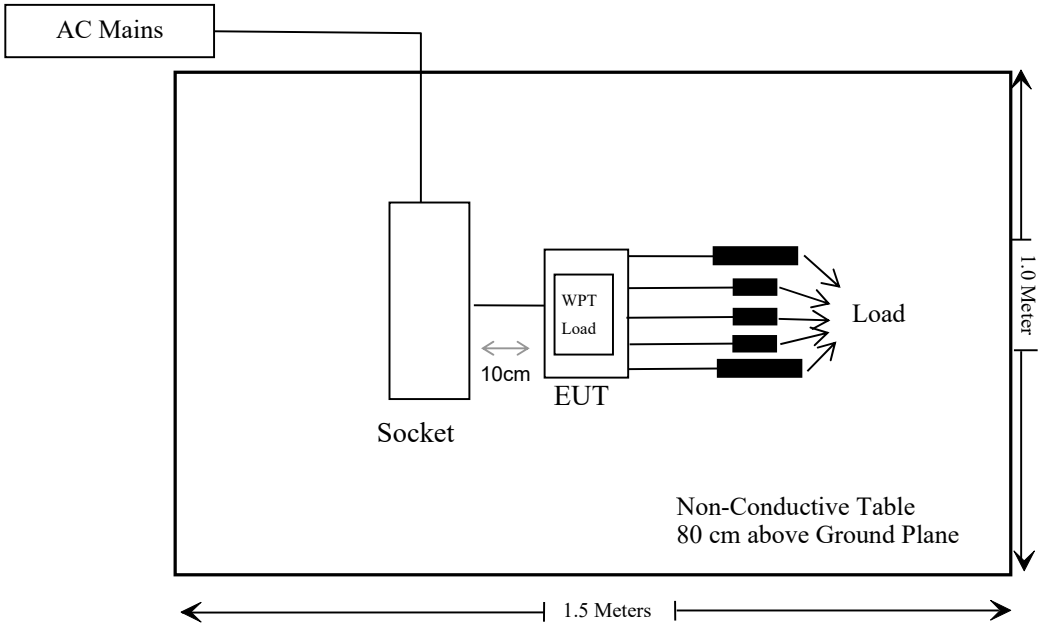
Block Diagram of Test Setup

For Sample 334Y-1

For Conducted Emission:

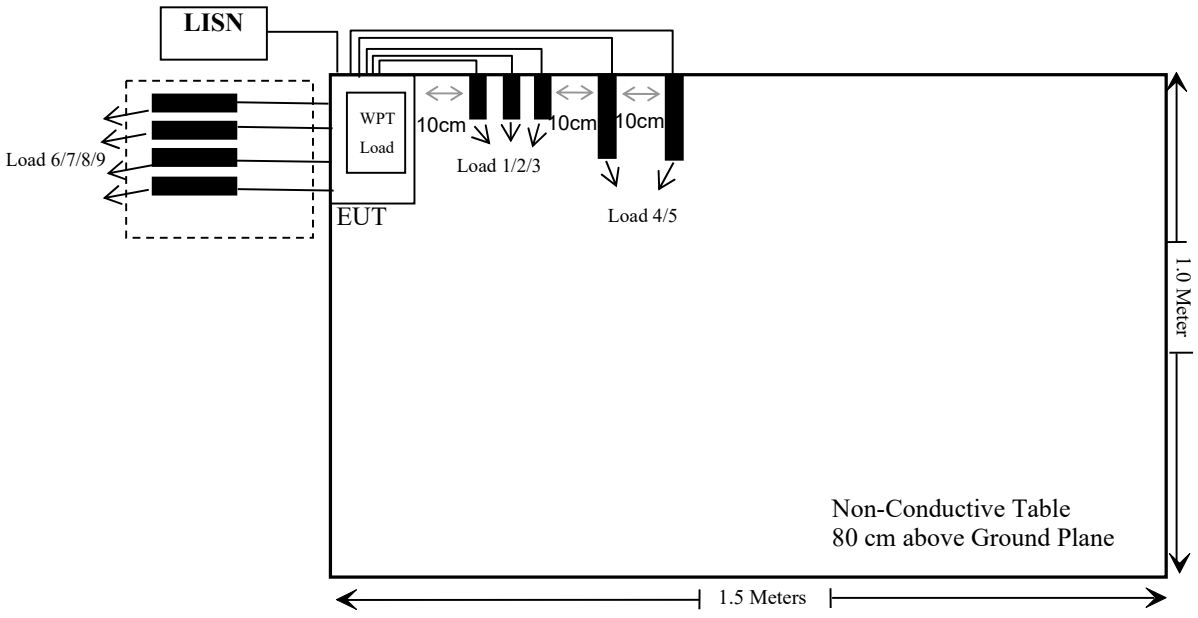


For Radiated Emission:

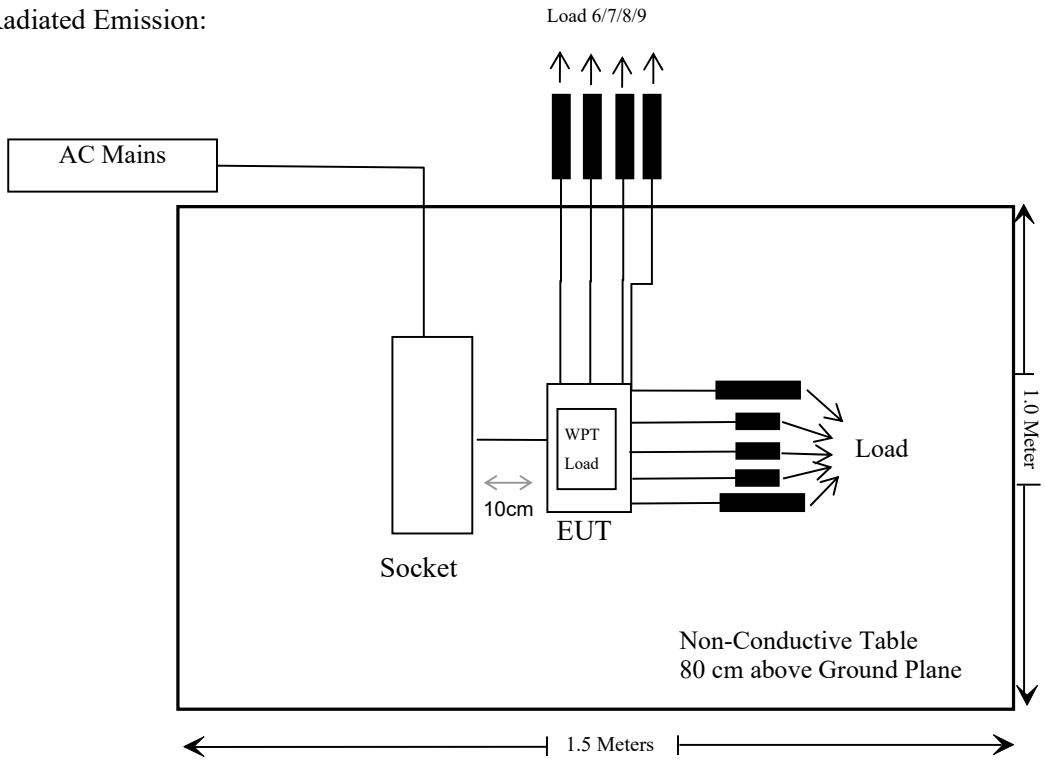


For Sample 334Y-2

For Conducted Emission:



For Radiated Emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliant
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207	AC Line Conducted Emission	Compliant
FCC §15.209 §15.205	Radiated Emission Test	Compliant
FCC §15.215 (c)	20dB Bandwidth	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/04/29	2026/04/28
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/04/29	2026/04/28
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
RF Radiated Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2025/04/29	2026/04/28
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2025/04/29	2026/04/28
Unknown	Cable	XH500C	J-10M-A	2025/04/29	2026/04/28
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
MPE Test					
SPEAG	Probe	MAGPy-8H3D-E3D	3106	2025/04/29	2026/04/28
SPEAG	Data Acquisition System	MAPGPY-DAS	3089	2025/04/29	2026/04/28

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

FCC§15.203 - 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.

Antenna Connected Construction

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

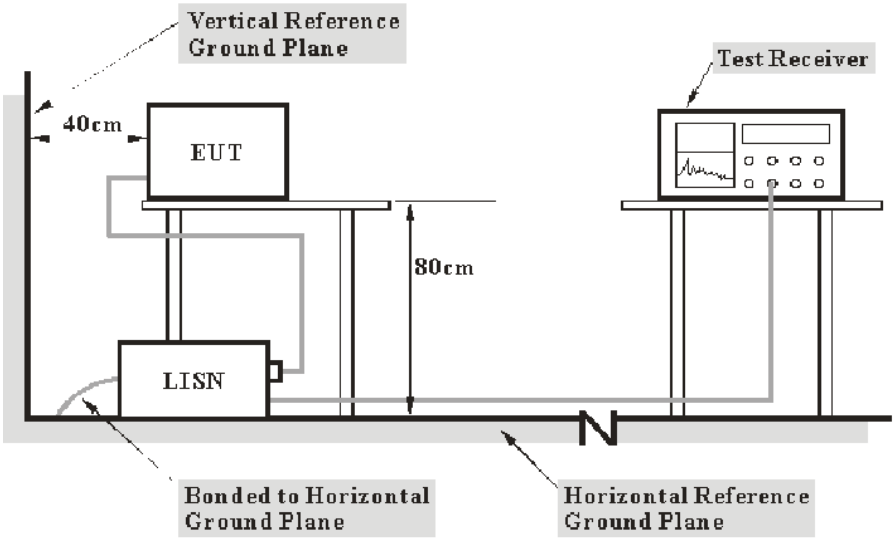
Result: Compliant.

FCC §15.207 - AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

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.

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

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

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:

Factor = LISN VDF + 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:

Over Limit = Level – Limit
Level = Read Level + Factor

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

Test Data

Environmental Conditions

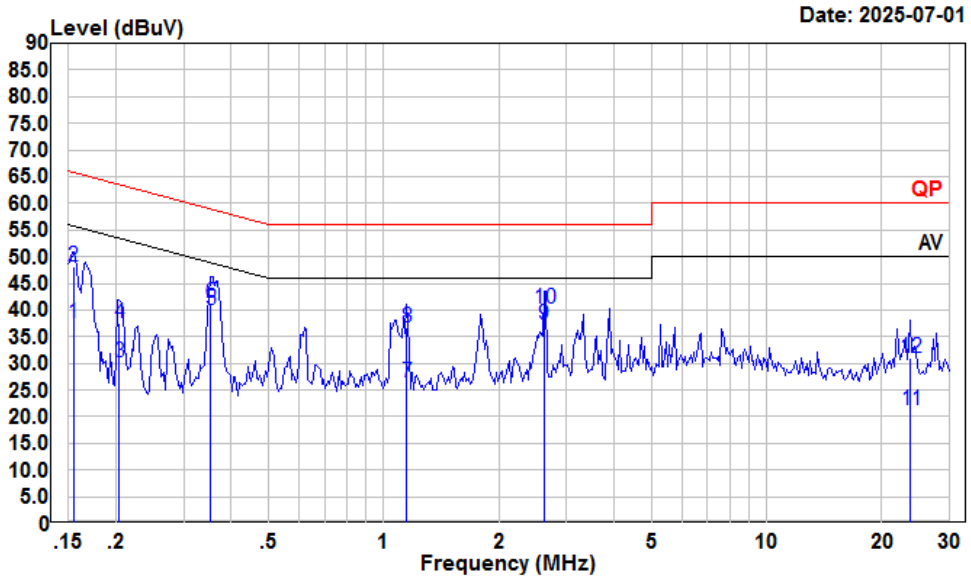
Temperature:	24.5~25.9 ℃
Relative Humidity:	44~65 %
ATM Pressure:	100.1~100.8 kPa

The testing was performed by Macy Shi from 2025-07-01 to 2025-10-21.

Test Mode: Wireless Charging (360 kHz is worst case)

For Sample 334Y-1

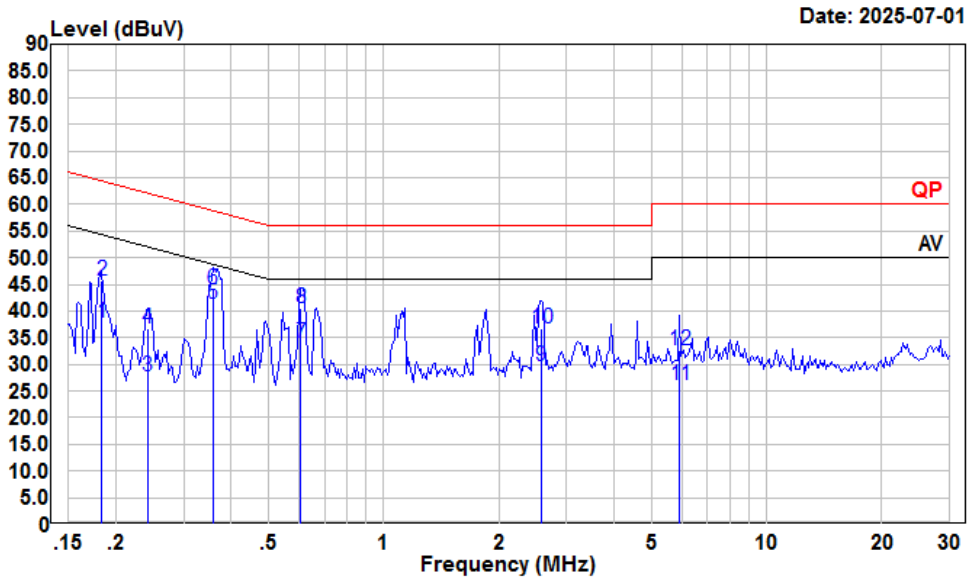
AC 120 V/60 Hz, Line



Condition: Line
Project : 2501T28710E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.155	17.11	37.45	10.17	10.17	55.74	-18.29	Average
2	0.155	27.77	48.11	10.17	10.17	65.74	-17.63	QP
3	0.204	10.09	30.19	9.91	10.19	53.45	-23.26	Average
4	0.204	17.37	37.47	9.91	10.19	63.45	-25.98	QP
5	0.354	19.42	39.87	10.27	10.18	48.87	-9.00	Average
6	0.354	20.99	41.44	10.27	10.18	58.87	-17.43	QP
7	1.147	5.60	26.32	10.54	10.18	46.00	-19.68	Average
8	1.147	16.13	36.85	10.54	10.18	56.00	-19.15	QP
9	2.622	16.75	37.18	10.18	10.25	46.00	-8.82	Average
10	2.622	19.73	40.16	10.18	10.25	56.00	-15.84	QP
11	23.762	0.59	21.21	10.36	10.26	50.00	-28.79	Average
12	23.762	10.35	30.97	10.36	10.26	60.00	-29.03	QP

AC 120V/ 60 Hz, Neutral

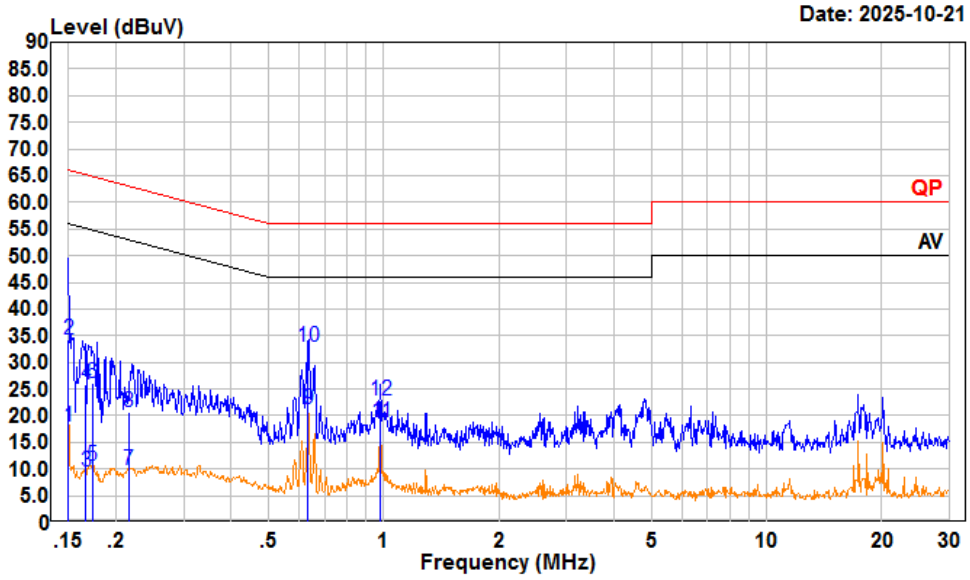


Condition: Neutral
Project : 2501T28710E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.183	17.49	37.84	10.16	10.19	54.33	-16.49	Average
2	0.183	25.26	45.61	10.16	10.19	64.33	-18.72	QP
3	0.242	7.47	27.87	10.20	10.20	52.04	-24.17	Average
4	0.242	16.28	36.68	10.20	10.20	62.04	-25.36	QP
5	0.358	20.63	41.24	10.42	10.19	48.78	-7.54	Average
6	0.358	23.53	44.14	10.42	10.19	58.78	-14.64	QP
7	0.608	13.26	34.03	10.54	10.23	46.00	-11.97	Average
8	0.608	19.81	40.58	10.54	10.23	56.00	-15.42	QP
9	2.577	9.10	29.58	10.23	10.25	46.00	-16.42	Average
10	2.577	16.30	36.78	10.23	10.25	56.00	-19.22	QP
11	5.939	5.30	26.01	10.45	10.26	50.00	-23.99	Average
12	5.939	11.80	32.51	10.45	10.26	60.00	-27.49	QP

For Sample 334Y-2

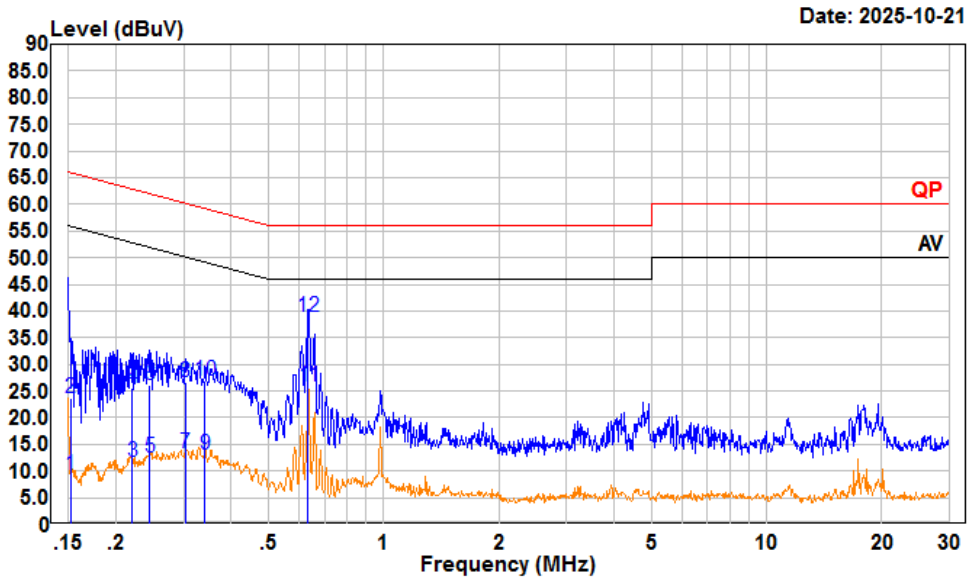
AC 120 V/60 Hz, Line



Condition: Line
Project : 2501T28710E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.150	-1.63	17.99	9.60	10.02	56.00	-38.01	Average
2	0.150	14.56	34.18	9.60	10.02	66.00	-31.82	QP
3	0.166	-10.19	9.43	9.60	10.02	55.14	-45.71	Average
4	0.166	6.17	25.79	9.60	10.02	65.14	-39.35	QP
5	0.174	-9.03	10.59	9.60	10.02	54.78	-44.19	Average
6	0.174	6.38	26.00	9.60	10.02	64.78	-38.78	QP
7	0.216	-9.79	9.84	9.60	10.03	52.98	-43.14	Average
8	0.216	0.97	20.60	9.60	10.03	62.98	-42.38	QP
9	0.635	1.59	21.23	9.60	10.04	46.00	-24.77	Average
10	0.635	13.32	32.96	9.60	10.04	56.00	-23.04	QP
11	0.981	-0.95	18.70	9.60	10.05	46.00	-27.30	Average
12	0.981	3.28	22.93	9.60	10.05	56.00	-33.07	QP

AC 120V/ 60 Hz, Neutral



Condition: neutral
Project : 2501T28710E-RF
tester : Macy.shi Note:Transmitting
Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	-10.38	9.24	9.60	10.02	55.89	-46.65	Average
2	0.152	4.12	23.74	9.60	10.02	65.89	-42.15	QP
3	0.220	-8.02	11.61	9.60	10.03	52.80	-41.19	Average
4	0.220	5.88	25.51	9.60	10.03	62.80	-37.29	QP
5	0.245	-7.11	12.52	9.60	10.03	51.92	-39.40	Average
6	0.245	6.43	26.06	9.60	10.03	61.92	-35.86	QP
7	0.303	-6.31	13.32	9.60	10.03	50.16	-36.84	Average
8	0.303	7.06	26.69	9.60	10.03	60.16	-33.47	QP
9	0.341	-6.64	12.99	9.60	10.03	49.18	-36.19	Average
10	0.341	7.32	26.95	9.60	10.03	59.18	-32.23	QP
11	0.635	6.07	25.71	9.60	10.04	46.00	-20.29	Average
12	0.635	19.34	38.98	9.60	10.04	56.00	-17.02	QP

FCC §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

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

Limits for Maximum Permissible Exposure (MPE)

(B) 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;

According with 680106 D01 Wireless Power Transfer v04 clause 3.2

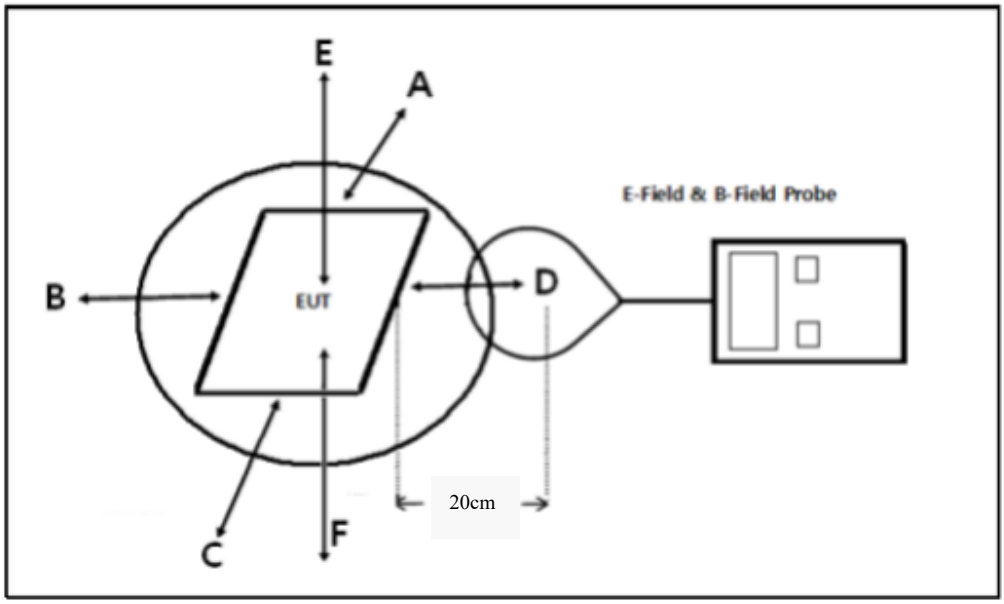
Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

There might be situations where the WPT RF emissions are limited enough that even operations in a "crowded" environment, where many similar WPT devices are present, do not pose significant EMC and RF exposure concerns. In this scenario, and for devices operating within a one-meter distance from the receiver, as defined above, a manufacturer will not have to submit an "Equipment Compliance Review" KDB, and receive FCC concurrence before proceeding with equipment authorization. This exception to the requirement of submitting the ECR to obtain FCC concurrence only applies when all the following criteria (1) through (6) are met:

(1)The power transfer frequency is below 1 MHz.
(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating

structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Block Diagram of Test Setup



Test Procedures

1) Perform H-field and E-field measurements for each all sides of the EUT at 20cm, along all the principal axes defined with respect to the orientation of the transmitting element (e.g., coil or antenna).
2) The highest emission level was recorded and compared with limit.
3) The EUT was measured according to 680106 D01 Wireless Power Transfer v04.

Test Data

Environmental Conditions

Temperature:	26.6 ℃
Relative Humidity:	53 %
ATM Pressure:	99.3 kPa

The testing was performed by Rainbow Zhu on 2025-07-09.

Test mode: Wireless charging (Maximum output power)

H-Field Strength

Test Frequency (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Position F (A/m)	50% Limit (A/m)	Limit (A/m)
110.5-205	0.00619	0.00824	0.00618	0.01	0.01	0.00403	0.815	1.63

Test Frequency (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Position F (A/m)	50% Limit (A/m)	Limit (A/m)
360	0.01	0.00470	0.00898	0.00872	0.01	0.00682	0.815	1.63

E-Field Strength

Test Frequency (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Position F (V/m)	50% Limit (V/m)	Limit (V/m)
110.5-205	4.01	3.07	2.32	8.11	13.9	3.25	307	614

Test Frequency (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Position F (V/m)	50% Limit (V/m)	Limit (V/m)
360	7.64	9.33	12.3	11.1	17.8	8.45	307	614

Note: Test with 20cm distance from the center of the probe(s) to the edge of the device.

(1) The power transfer frequency is below 1 MHz.

The operation frequency is 110.5-205 kHz, 360 kHz.

(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

The maximum output power is 15 watts.

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

The load is physical contact with the EUT.

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

The EUT is used in the mobile exposure condition.

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

The E-field and H-field strengths are less than 50% of the limit.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

The EUT has only one coil.

FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.209

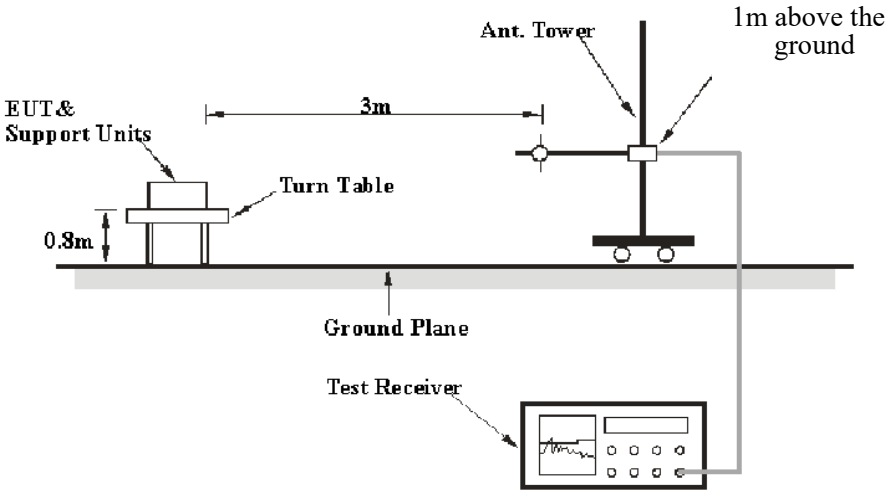
(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

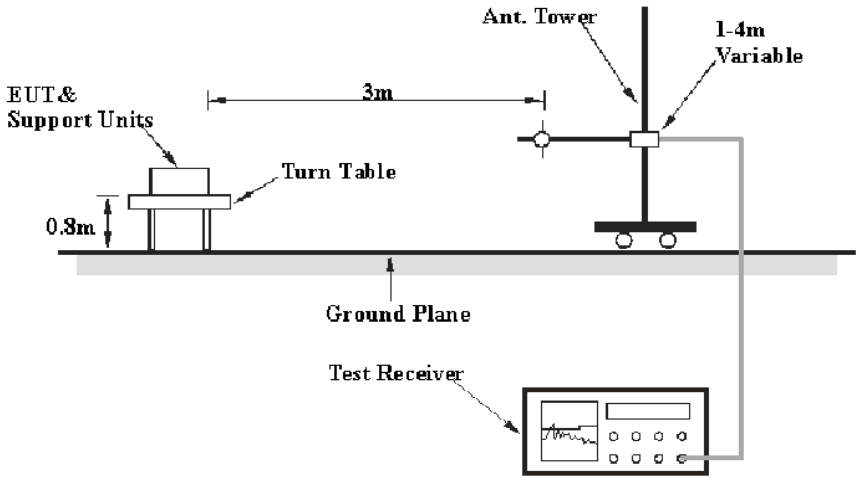
**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permItted under other sections of this part, e.g., §§15.231 and 15.241.

EUT Setup

9 kHz-30MHz:



30MHz-1GHz:



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 1000MHz.

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

Note 1: For the frequency bands 9–90 kHz, 110–490 kHz are based on measurements employing an average detector.
Note 2: 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.

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.

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:

Factor = Antenna Factor + Cable Loss - 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:

Over Limit/Margin = Level / Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	25~25.6 ℃
Relative Humidity:	49~56 %
ATM Pressure:	100.2~102 kPa

The testing was performed by Anson Su from 2025-07-08 to 2025-10-24.

Test Mode: Wireless Charging (Maximum output power)

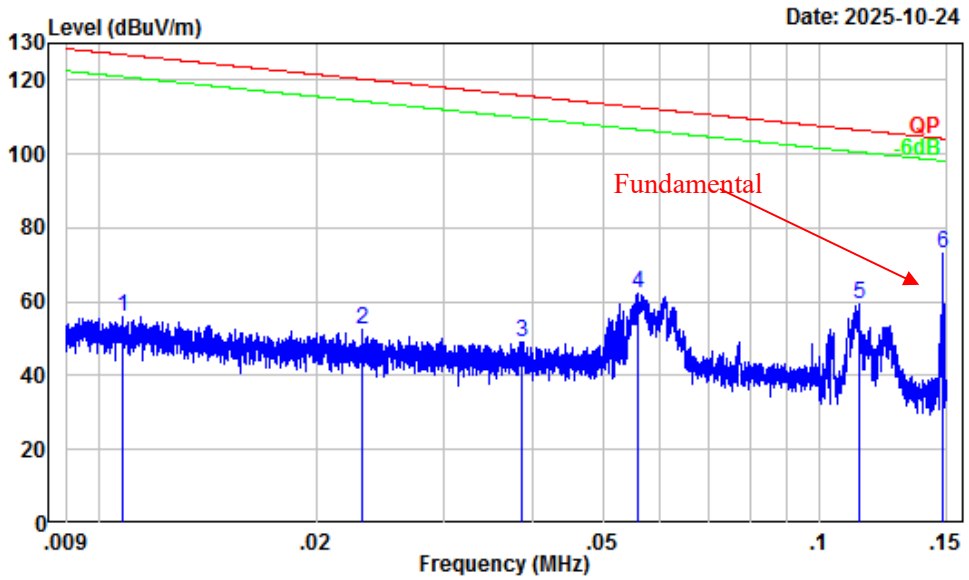
Note: when the result of Peak below the limit of QP more than 6dB, just the peak value was record.

For Sample 334Y-1

110.5-205kHz

Parallel:

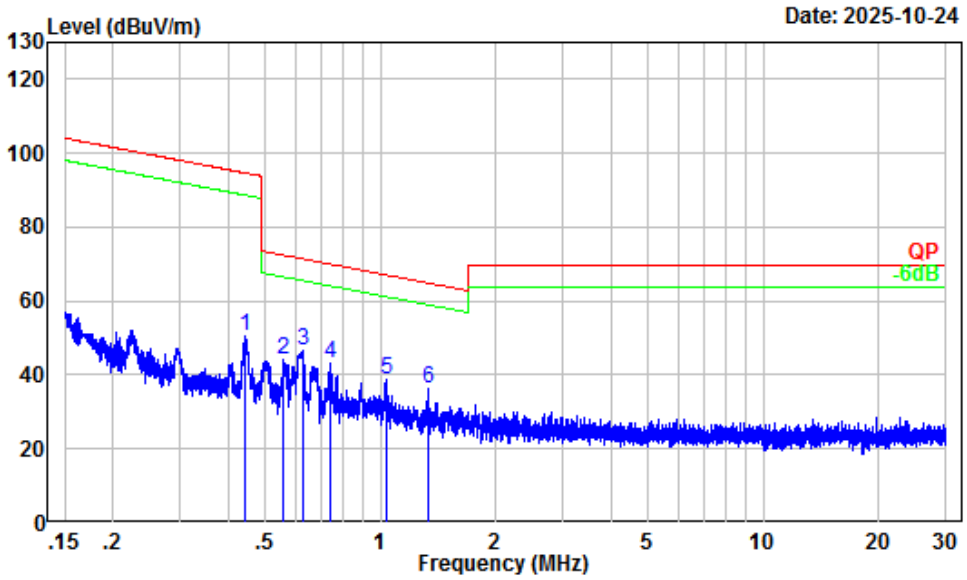
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.15	23.92	56.07	126.93	-70.86	Peak
2	0.023	29.79	22.90	52.69	120.30	-67.61	Peak
3	0.039	27.60	21.52	49.12	115.88	-66.76	Peak
4	0.056	25.81	36.64	62.45	112.66	-50.21	Peak
5	0.113	21.22	38.33	59.55	106.52	-46.97	Peak
6	0.148	19.16	53.84	73.00	104.19	-31.19	Peak

150 kHz~30 MHz

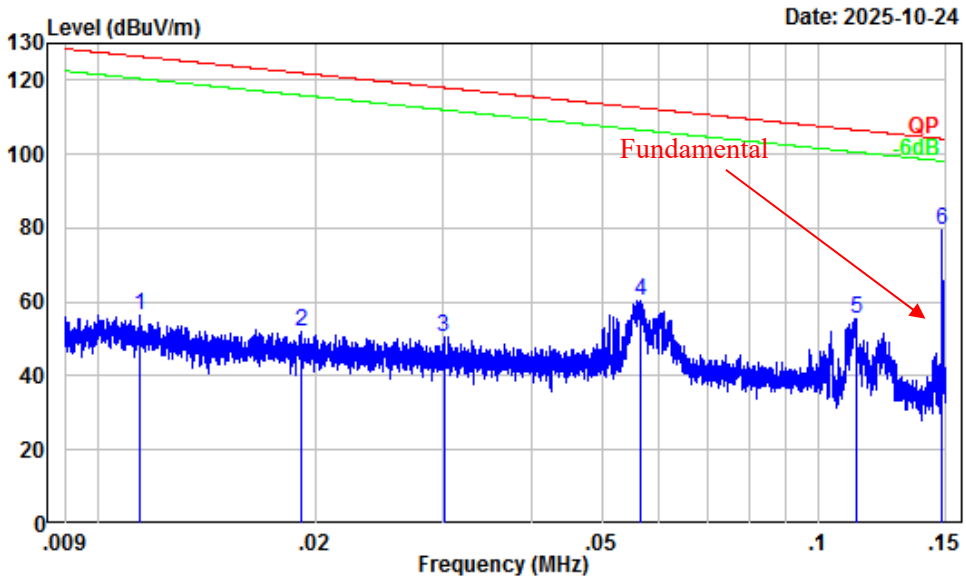


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.445	7.44	43.25	50.69	94.64	-43.95	Peak
2	0.560	5.66	38.46	44.12	72.62	-28.50	Peak
3	0.626	4.85	41.54	46.39	71.63	-25.24	Peak
4	0.741	3.43	39.90	43.33	70.13	-26.80	Peak
5	1.037	1.10	37.71	38.81	67.15	-28.34	Peak
6	1.335	0.26	36.02	36.28	64.91	-28.63	Peak

Ground-parallel:

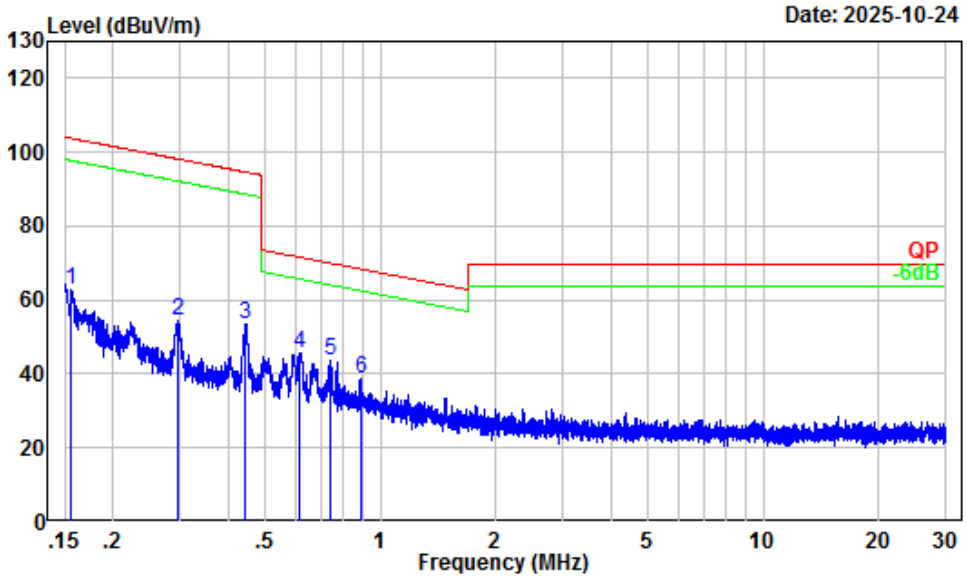
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.03	24.52	56.55	126.45	-69.90	Peak
2	0.019	30.57	21.47	52.04	121.97	-69.93	Peak
3	0.030	28.48	22.00	50.48	118.01	-67.53	Peak
4	0.057	25.74	34.63	60.37	112.55	-52.18	Peak
5	0.113	21.26	34.23	55.49	106.58	-51.09	Peak
6	0.148	19.16	60.39	79.55	104.19	-24.64	Peak

150 kHz~30 MHz

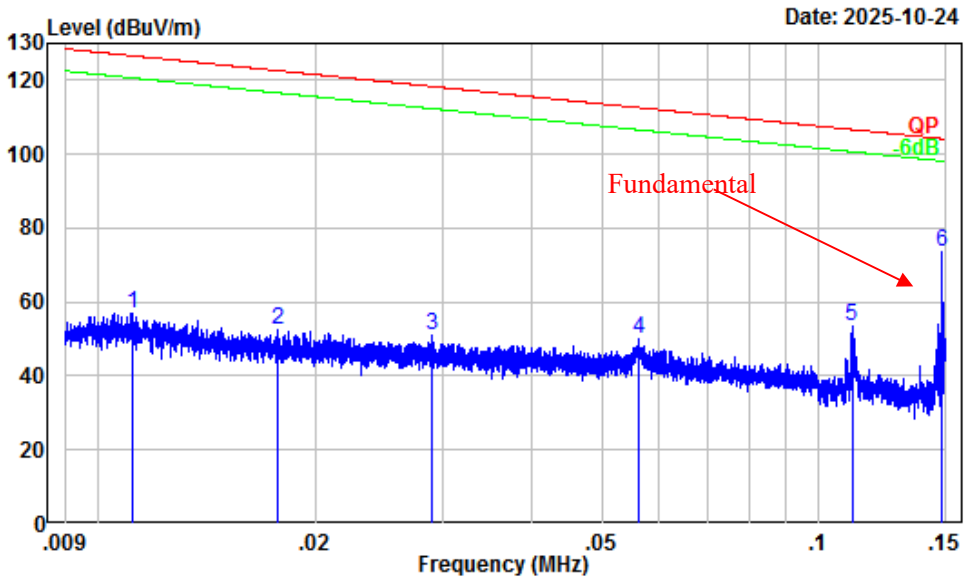


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.156	18.70	43.89	62.59	103.75	-41.16	Peak
2	0.295	10.50	44.05	54.55	98.21	-43.66	Peak
3	0.445	7.45	45.85	53.30	94.64	-41.34	Peak
4	0.612	5.02	40.56	45.58	71.83	-26.25	Peak
5	0.739	3.45	40.08	43.53	70.15	-26.62	Peak
6	0.889	2.04	36.88	38.92	68.52	-29.60	Peak

Perpendicular:

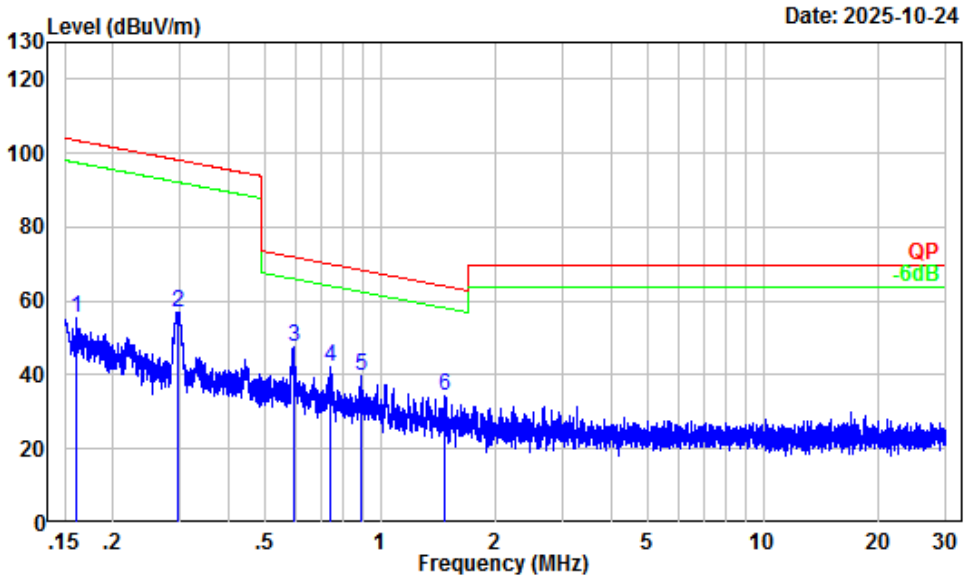
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.07	24.63	56.70	126.62	-69.92	Peak
2	0.018	30.83	21.44	52.27	122.62	-70.35	Peak
3	0.029	28.66	22.40	51.06	118.32	-67.26	Peak
4	0.056	25.78	24.12	49.90	112.61	-62.71	Peak
5	0.111	21.34	32.18	53.52	106.69	-53.17	Peak
6	0.148	19.16	54.60	73.76	104.19	-30.43	Peak

150 kHz~30 MHz

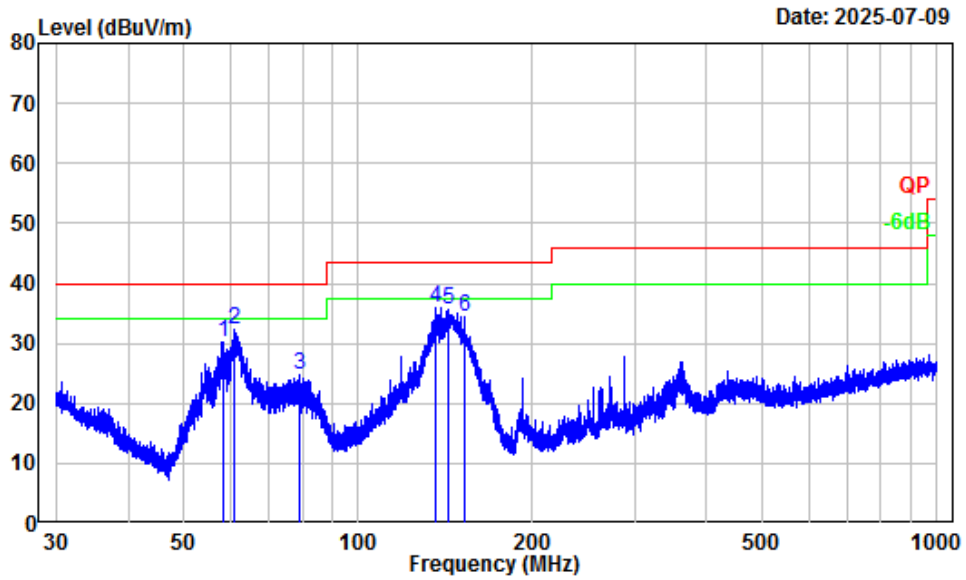


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.160	18.44	36.82	55.26	103.51	-48.25	Peak
2	0.296	10.43	46.44	56.87	98.17	-41.30	Peak
3	0.593	5.25	42.36	47.61	72.10	-24.49	Peak
4	0.739	3.46	38.72	42.18	70.16	-27.98	Peak
5	0.888	2.04	37.54	39.58	68.53	-28.95	Peak
6	1.477	-0.13	34.33	34.20	64.02	-29.82	Peak

30MHz~1GHz:

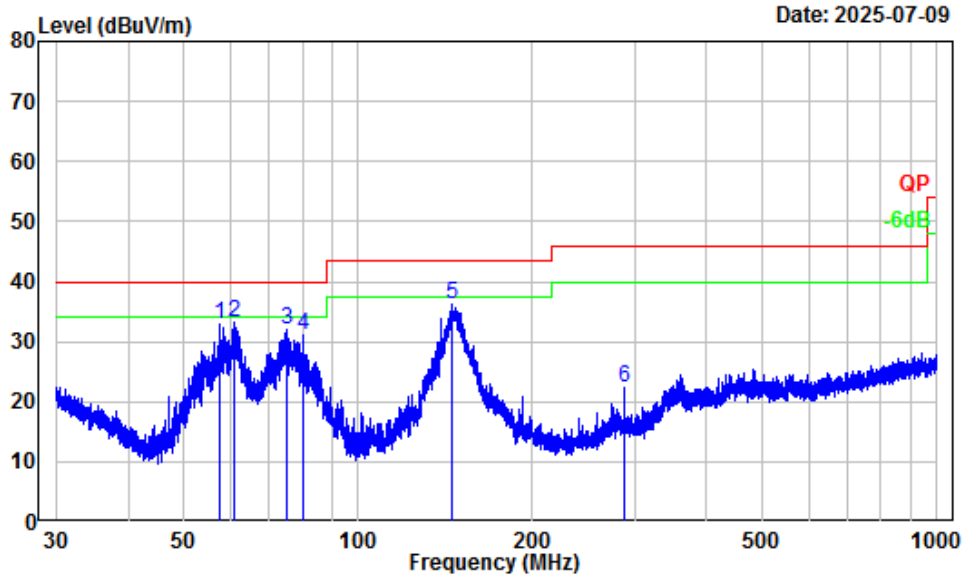
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	58.51	-18.22	48.26	30.04	40.00	-9.96	Peak
2	61.02	-18.12	50.33	32.21	40.00	-7.79	Peak
3	79.24	-17.90	42.71	24.81	40.00	-15.19	Peak
4	135.68	-11.57	47.58	36.01	43.50	-7.49	Peak
5	142.57	-12.04	47.54	35.50	43.50	-8.00	Peak
6	152.40	-12.55	47.02	34.47	43.50	-9.03	Peak

Vertical



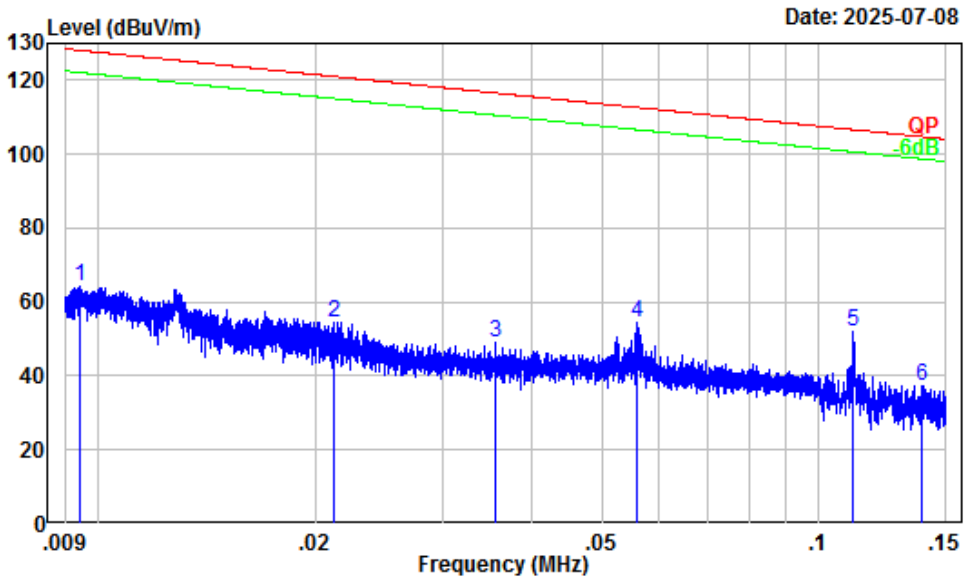
Site : Chamber A
Condition : 3m Vertical
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	57.57	-18.26	51.21	32.95	40.00	-7.05	Peak
2	60.86	-18.12	51.40	33.28	40.00	-6.72	Peak
3	75.02	-17.83	49.94	32.11	40.00	-7.89	Peak
4	80.08	-17.91	48.93	31.02	40.00	-8.98	Peak
5	145.03	-12.17	48.41	36.24	43.50	-7.26	Peak
6	287.99	-11.22	33.58	22.36	46.00	-23.64	Peak

360 kHz

Parallel:

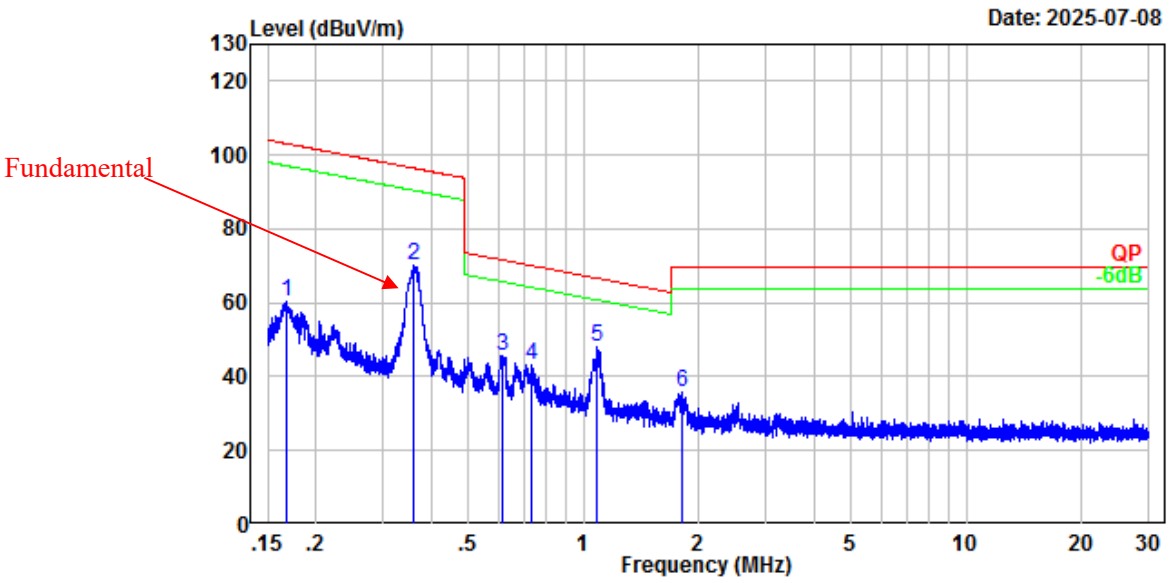
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.009	32.41	31.92	64.33	128.10	-63.77	Peak
2	0.021	30.15	24.36	54.51	121.04	-66.53	Peak
3	0.036	27.91	21.02	48.93	116.58	-67.65	Peak
4	0.056	25.79	28.58	54.37	112.63	-58.26	Peak
5	0.112	21.32	30.44	51.76	106.65	-54.89	Peak
6	0.139	19.68	17.61	37.29	104.73	-67.44	Peak

150 kHz~30 MHz

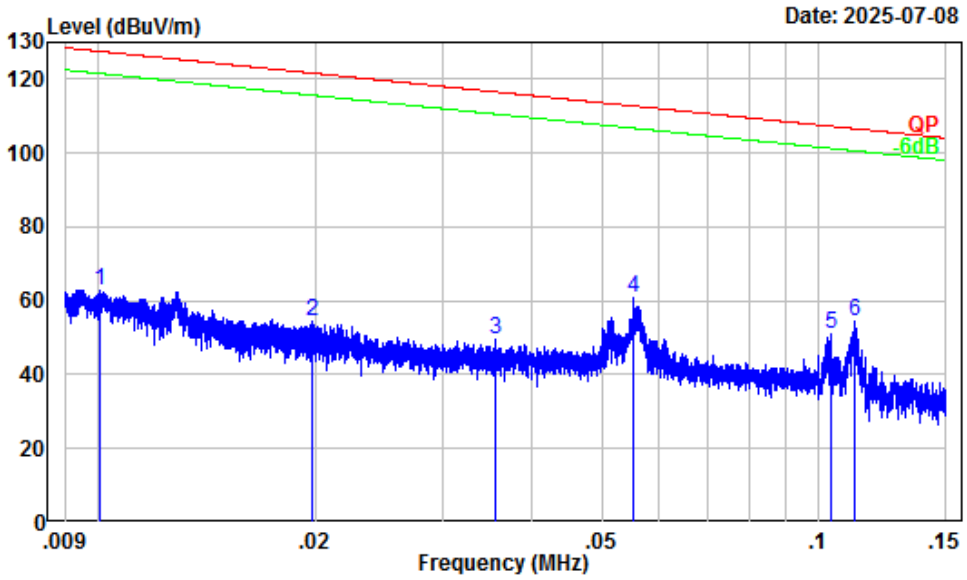


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.168	18.00	42.33	60.33	103.11	-42.78	Peak
2	0.362	9.02	61.09	70.11	96.43	-26.32	Peak
3	0.616	4.97	40.74	45.71	71.78	-26.07	Peak
4	0.731	3.55	39.58	43.13	70.25	-27.12	Peak
5	1.084	0.97	47.09	48.06	66.76	-18.70	Peak
6	1.808	-1.06	36.66	35.60	69.54	-33.94	Peak

Ground-parallel:

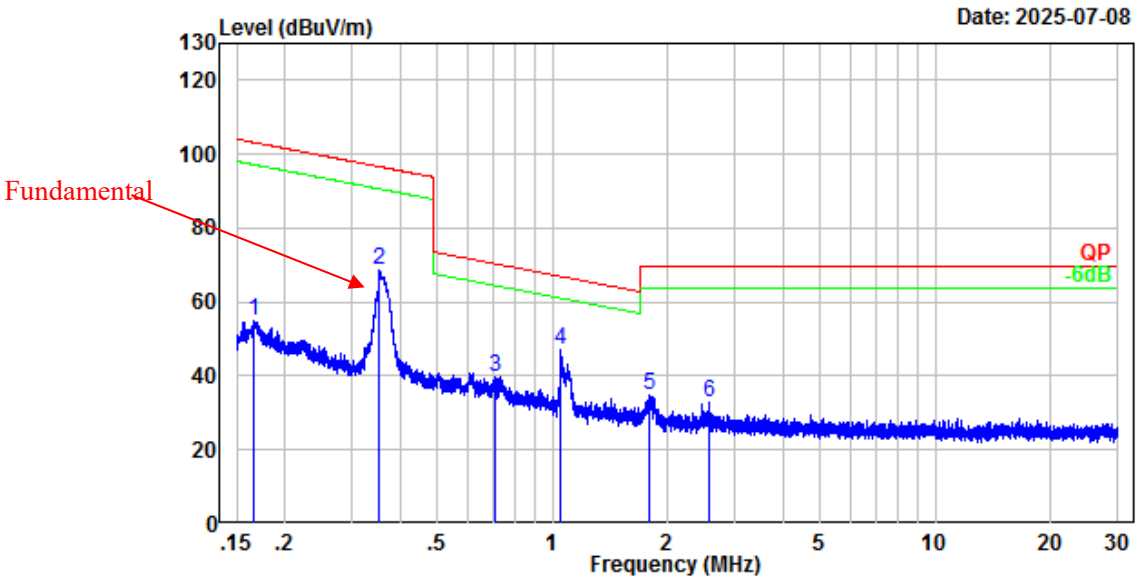
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.29	30.69	62.98	127.57	-64.59	Peak
2	0.020	30.44	23.79	54.23	121.68	-67.45	Peak
3	0.036	27.90	21.54	49.44	116.55	-67.11	Peak
4	0.055	25.88	34.72	60.60	112.76	-52.16	Peak
5	0.104	21.77	29.01	50.78	107.28	-56.50	Peak
6	0.112	21.30	32.97	54.27	106.62	-52.35	Peak

150 kHz~30 MHz

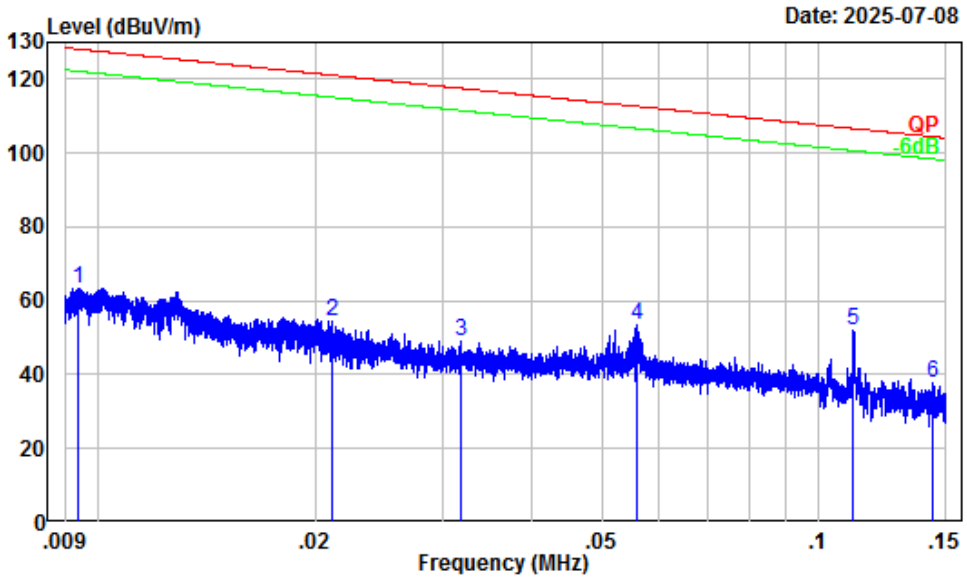


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.167	18.06	37.07	55.13	103.16	-48.03	Peak
2	0.352	9.22	59.32	68.54	96.68	-28.14	Peak
3	0.709	3.82	36.16	39.98	70.52	-30.54	Peak
4	1.053	1.05	45.88	46.93	67.02	-20.09	Peak
5	1.799	-1.04	35.84	34.80	69.54	-34.74	Peak
6	2.574	-1.92	34.58	32.66	69.54	-36.88	Peak

Perpendicular:

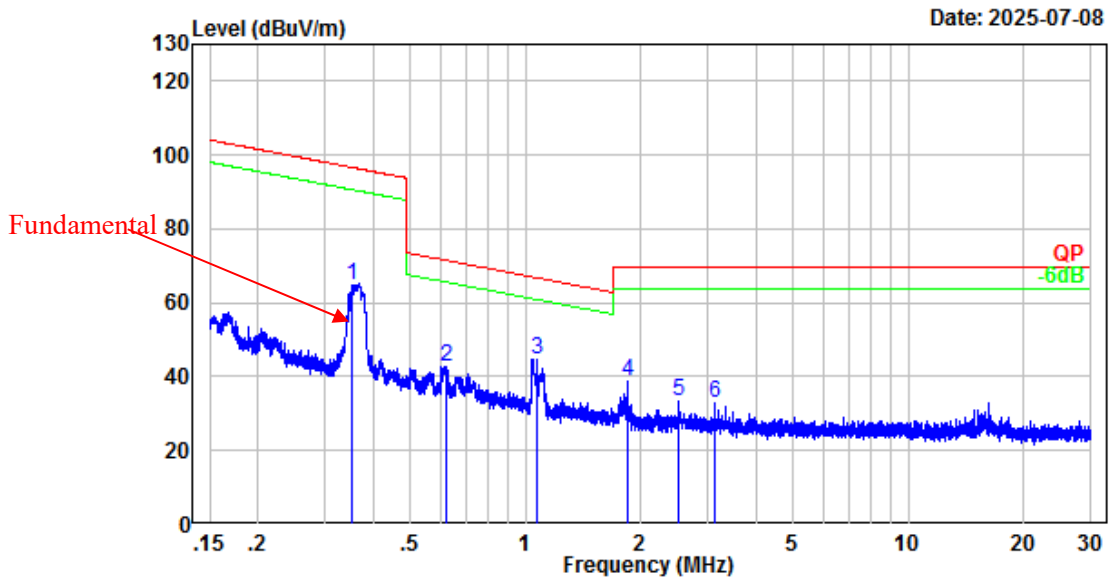
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.009	32.42	30.98	63.40	128.14	-64.74	Peak
2	0.021	30.18	24.13	54.31	121.09	-66.78	Peak
3	0.032	28.31	20.64	48.95	117.54	-68.59	Peak
4	0.056	25.81	27.60	53.41	112.66	-59.25	Peak
5	0.112	21.31	30.53	51.84	106.64	-54.80	Peak
6	0.144	19.43	18.45	37.88	104.46	-66.58	Peak

150 kHz~30 MHz

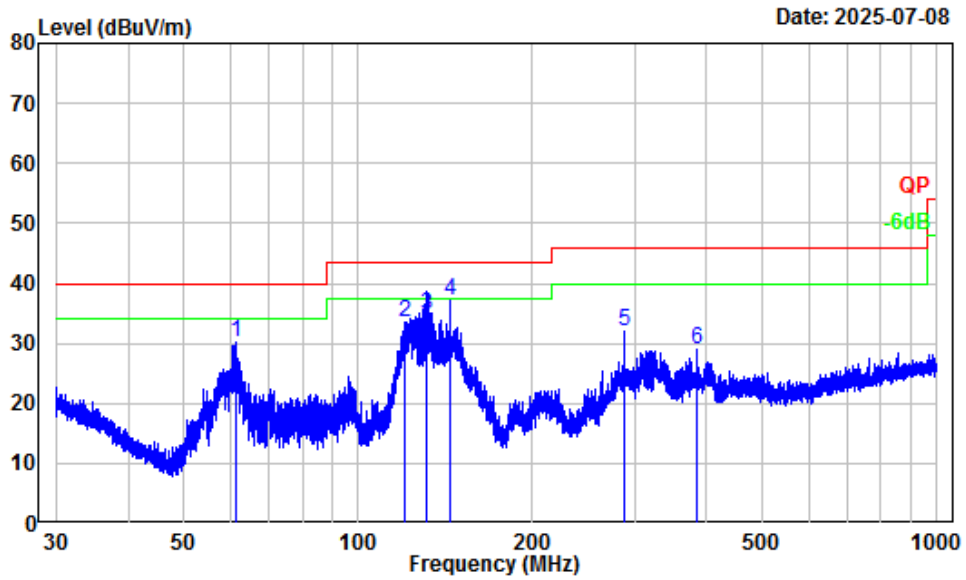


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.354	9.17	55.64	64.81	96.62	-31.81	Peak
2	0.622	4.89	37.74	42.63	71.68	-29.05	Peak
3	1.072	1.00	43.86	44.86	66.85	-21.99	Peak
4	1.852	-1.19	39.97	38.78	69.54	-30.76	Peak
5	2.518	-1.89	35.01	33.12	69.54	-36.42	Peak
6	3.136	-2.22	35.06	32.84	69.54	-36.70	Peak

30MHz~1GHz:

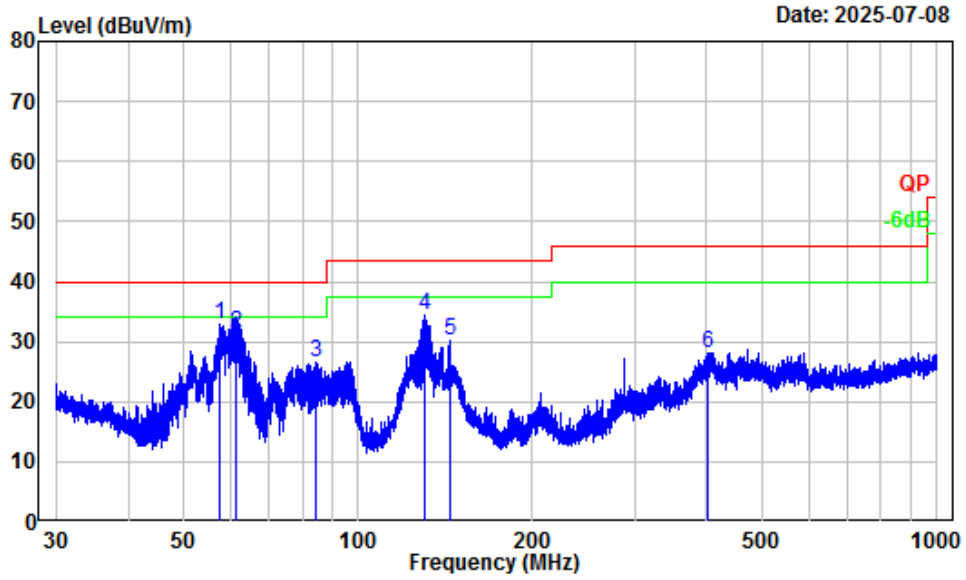
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	61.43	-18.11	48.29	30.18	40.00	-9.82	Peak
2	120.49	-11.40	45.05	33.65	43.50	-9.85	Peak
3	131.41	-11.31	46.00	34.69	43.50	-8.81	QP
4	144.02	-12.18	49.33	37.15	43.50	-6.35	Peak
5	287.99	-11.22	43.28	32.06	46.00	-13.94	Peak
6	384.10	-9.04	38.07	29.03	46.00	-16.97	Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

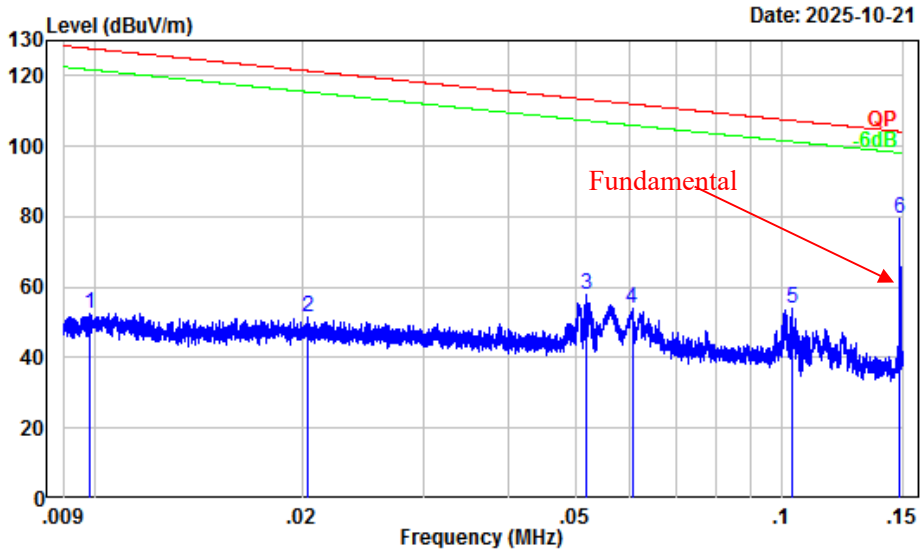
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	57.67	-18.25	51.19	32.94	40.00	-7.06	Peak
2	61.48	-18.11	49.60	31.49	40.00	-8.51	QP
3	84.37	-18.08	44.69	26.61	40.00	-13.39	Peak
4	130.61	-11.27	45.73	34.46	43.50	-9.04	Peak
5	144.02	-12.18	42.46	30.28	43.50	-13.22	Peak
6	401.84	-8.35	36.48	28.13	46.00	-17.87	Peak

For Sample 334Y-2

110.5-205 kHz

Parallel:

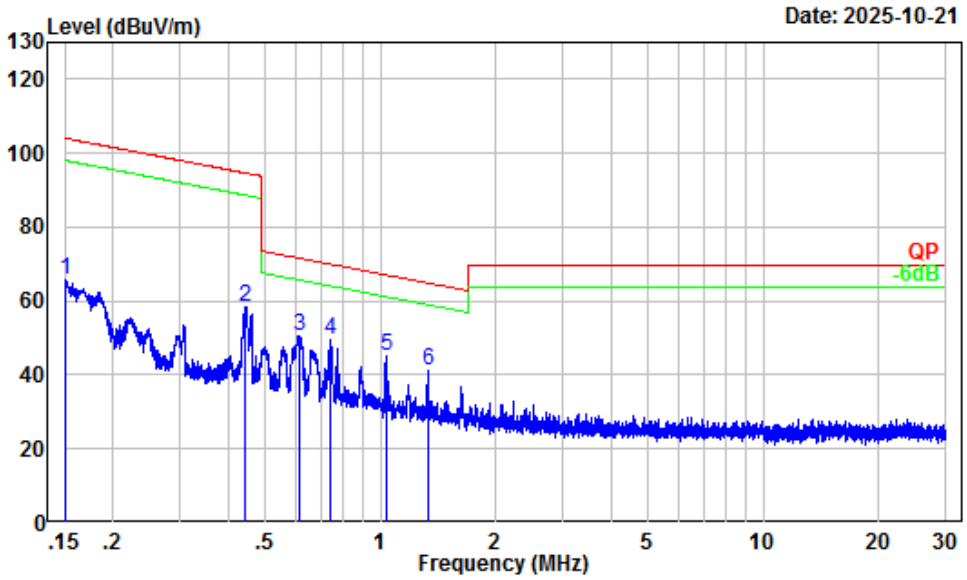
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.34	20.23	52.57	127.77	-75.20	Peak
2	0.020	30.33	21.23	51.56	121.42	-69.86	Peak
3	0.052	26.23	31.65	57.88	113.33	-55.45	Peak
4	0.060	25.35	28.38	53.73	111.97	-58.24	Peak
5	0.103	21.80	32.17	53.97	107.31	-53.34	Peak
6	0.148	19.16	60.29	79.45	104.19	-24.74	Peak

150 kHz~30 MHz

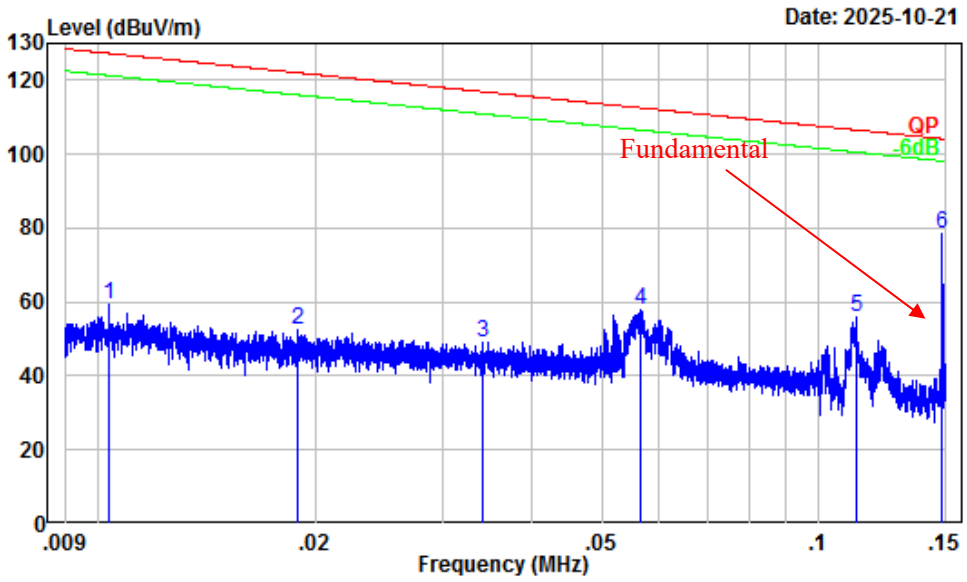


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.151	19.01	46.94	65.95	104.05	-38.10	Peak
2	0.444	7.46	51.02	58.48	94.65	-36.17	Peak
3	0.613	5.01	45.68	50.69	71.82	-21.13	Peak
4	0.740	3.45	46.12	49.57	70.15	-20.58	Peak
5	1.037	1.10	43.82	44.92	67.15	-22.23	Peak
6	1.331	0.27	40.77	41.04	64.94	-23.90	Peak

Ground-parallel:

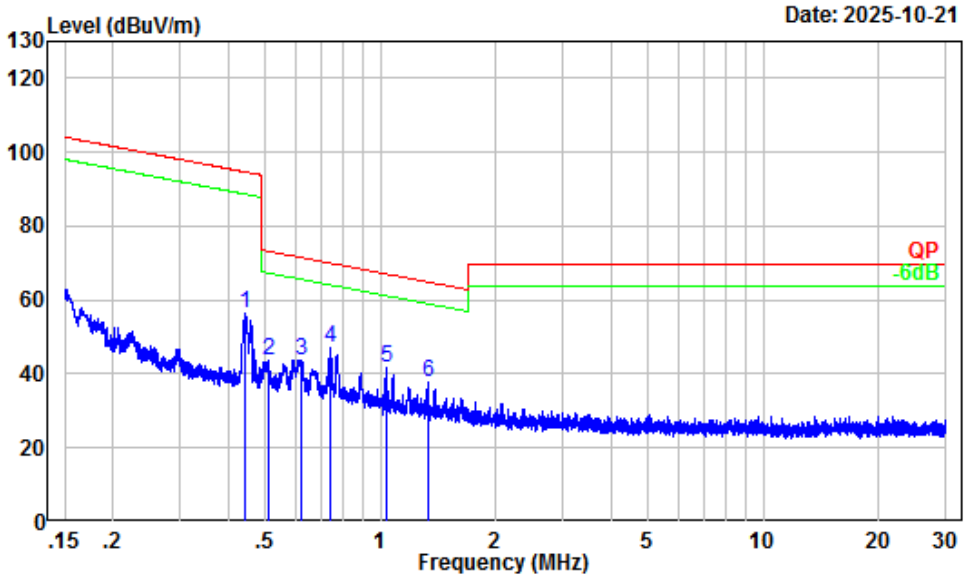
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.23	27.17	59.40	127.30	-67.90	Peak
2	0.019	30.61	21.90	52.51	122.07	-69.56	Peak
3	0.034	28.06	20.89	48.95	116.92	-67.97	Peak
4	0.057	25.74	32.27	58.01	112.55	-54.54	Peak
5	0.113	21.26	34.52	55.78	106.58	-50.80	Peak
6	0.148	19.16	59.37	78.53	104.19	-25.66	Peak

150 kHz~30 MHz

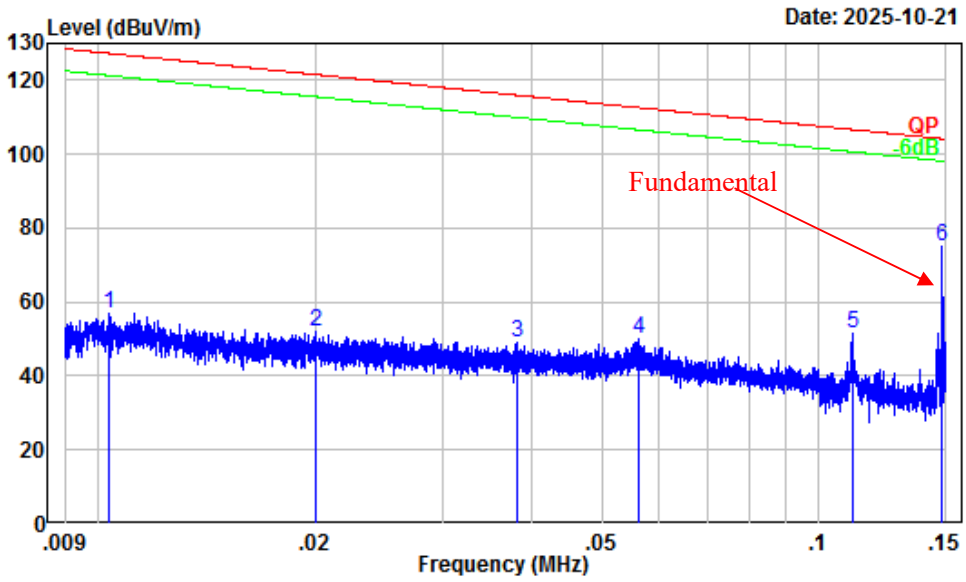


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.443	7.48	49.02	56.50	94.68	-38.18	Peak
2	0.509	6.28	37.15	43.43	73.46	-30.03	Peak
3	0.623	4.89	38.56	43.45	71.68	-28.23	Peak
4	0.740	3.44	43.69	47.13	70.14	-23.01	Peak
5	1.037	1.10	40.76	41.86	67.15	-25.29	Peak
6	1.333	0.27	37.42	37.69	64.92	-27.23	Peak

Perpendicular:

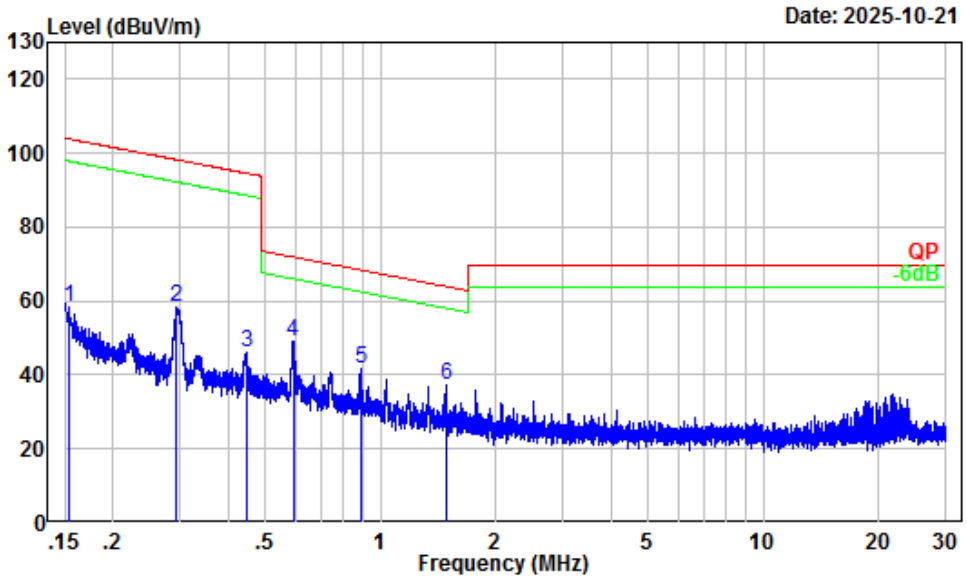
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.23	24.66	56.89	127.28	-70.39	Peak
2	0.020	30.40	21.61	52.01	121.58	-69.57	Peak
3	0.038	27.65	21.56	49.21	115.98	-66.77	Peak
4	0.056	25.78	24.36	50.14	112.61	-62.47	Peak
5	0.111	21.33	30.27	51.60	106.68	-55.08	Peak
6	0.148	19.16	56.02	75.18	104.19	-29.01	Peak

150 kHz~30 MHz

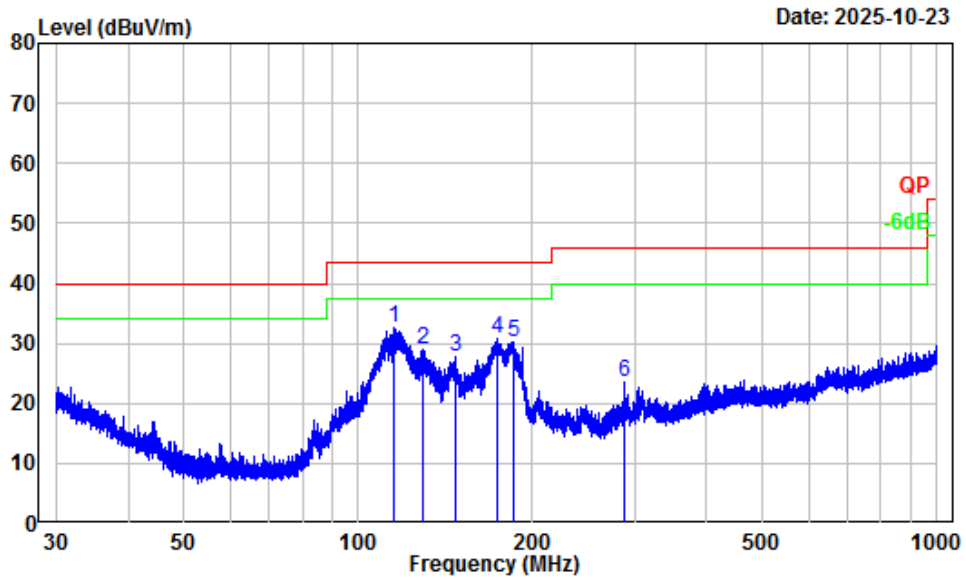


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.153	18.85	39.37	58.22	103.89	-45.67	Peak
2	0.294	10.57	47.68	58.25	98.24	-39.99	Peak
3	0.446	7.42	38.61	46.03	94.61	-48.58	Peak
4	0.592	5.26	43.76	49.02	72.12	-23.10	Peak
5	0.887	2.04	39.87	41.91	68.53	-26.62	Peak
6	1.483	-0.15	37.31	37.16	63.97	-26.81	Peak

30MHz~1GHz:

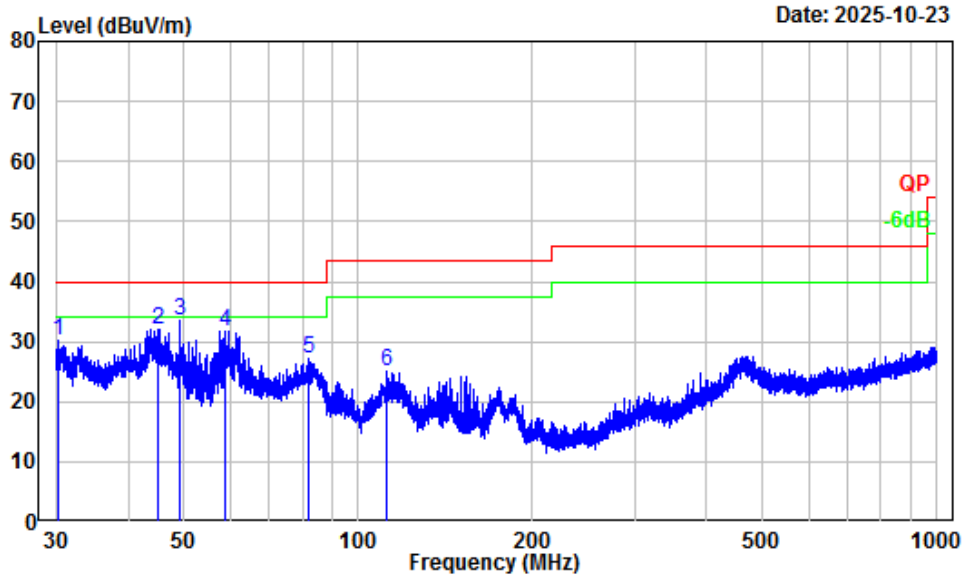
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	115.47	-12.03	44.70	32.67	43.50	-10.83	Peak
2	129.30	-11.20	40.14	28.94	43.50	-14.56	Peak
3	147.21	-12.23	40.08	27.85	43.50	-15.65	Peak
4	173.97	-13.27	43.94	30.67	43.50	-12.83	Peak
5	184.98	-13.61	43.91	30.30	43.50	-13.20	Peak
6	287.99	-11.12	34.57	23.45	46.00	-22.55	Peak

Vertical



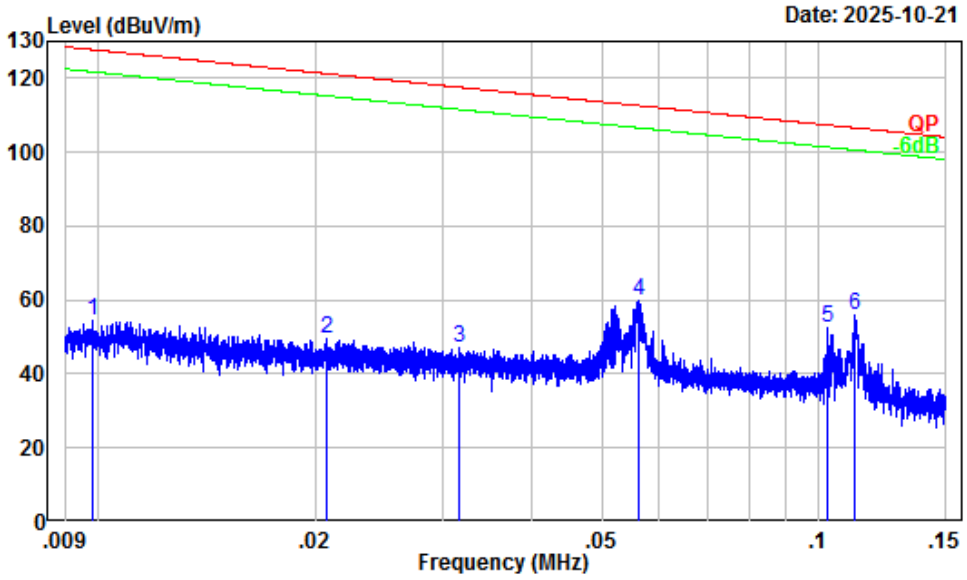
Site : Chamber A
Condition : 3m Vertical
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.34	-5.92	36.13	30.21	40.00	-9.79	Peak
2	45.06	-15.72	47.84	32.12	40.00	-7.88	Peak
3	49.27	-17.64	51.26	33.62	40.00	-6.38	Peak
4	58.95	-18.08	49.89	31.81	40.00	-8.19	Peak
5	82.18	-17.95	44.97	27.02	40.00	-12.98	Peak
6	112.13	-12.67	37.64	24.97	43.50	-18.53	Peak

360 kHz

Parallel:

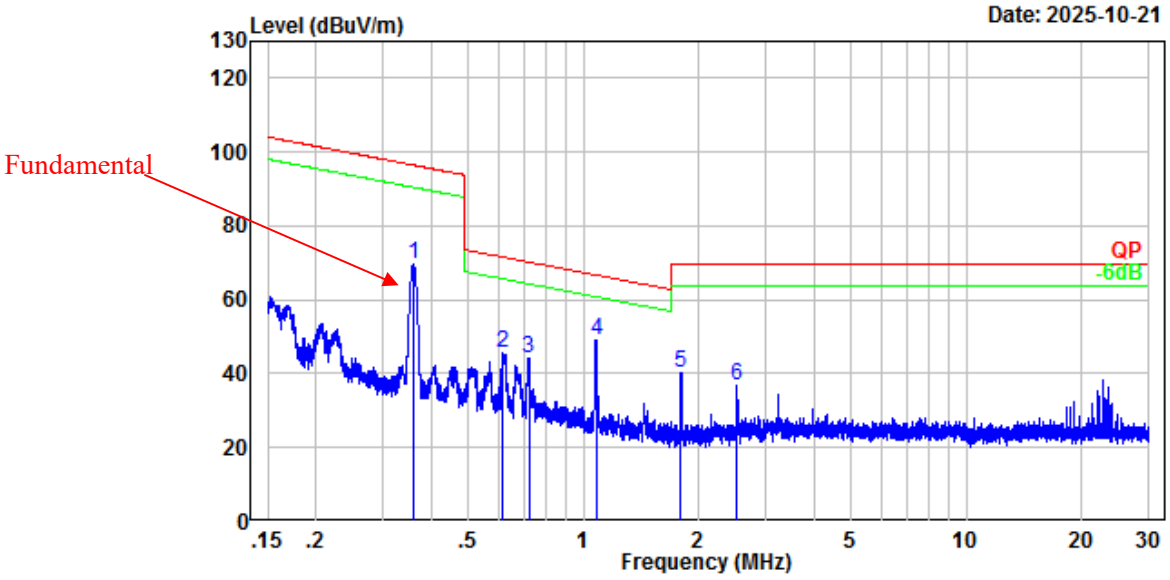
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.34	22.01	54.35	127.77	-73.42	Peak
2	0.021	30.26	19.26	49.52	121.28	-71.76	Peak
3	0.032	28.32	18.72	47.04	117.58	-70.54	Peak
4	0.056	25.77	33.99	59.76	112.59	-52.83	Peak
5	0.103	21.83	30.69	52.52	107.36	-54.84	Peak
6	0.112	21.28	34.43	55.71	106.60	-50.89	Peak

150 kHz~30 MHz

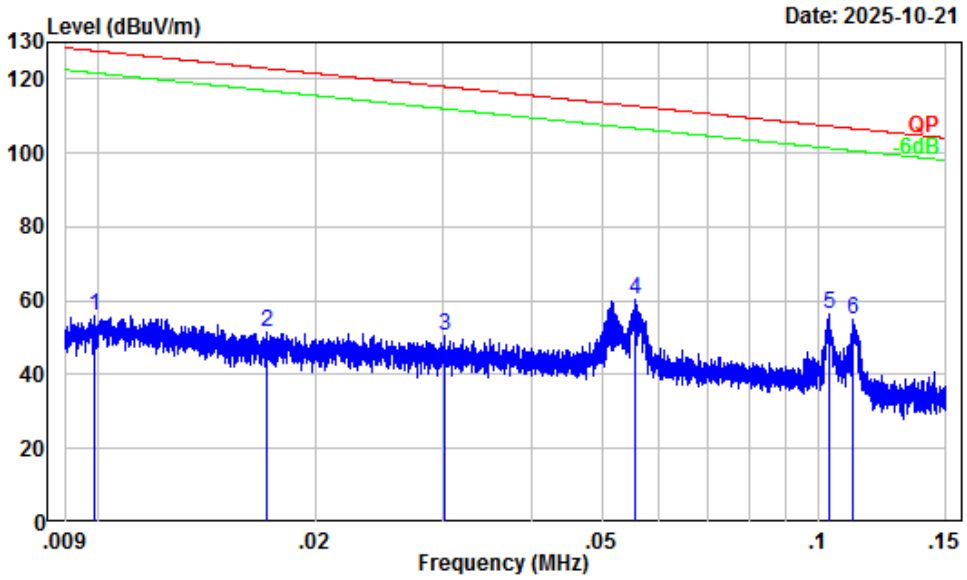


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.360	9.07	60.63	69.70	96.49	-26.79	Peak
2	0.613	5.01	40.47	45.48	71.82	-26.34	Peak
3	0.720	3.68	40.28	43.96	70.38	-26.42	Peak
4	1.080	0.98	48.29	49.27	66.79	-17.52	Peak
5	1.800	-1.04	41.22	40.18	69.54	-29.36	Peak
6	2.520	-1.89	38.88	36.99	69.54	-32.55	Peak

Ground-parallel:

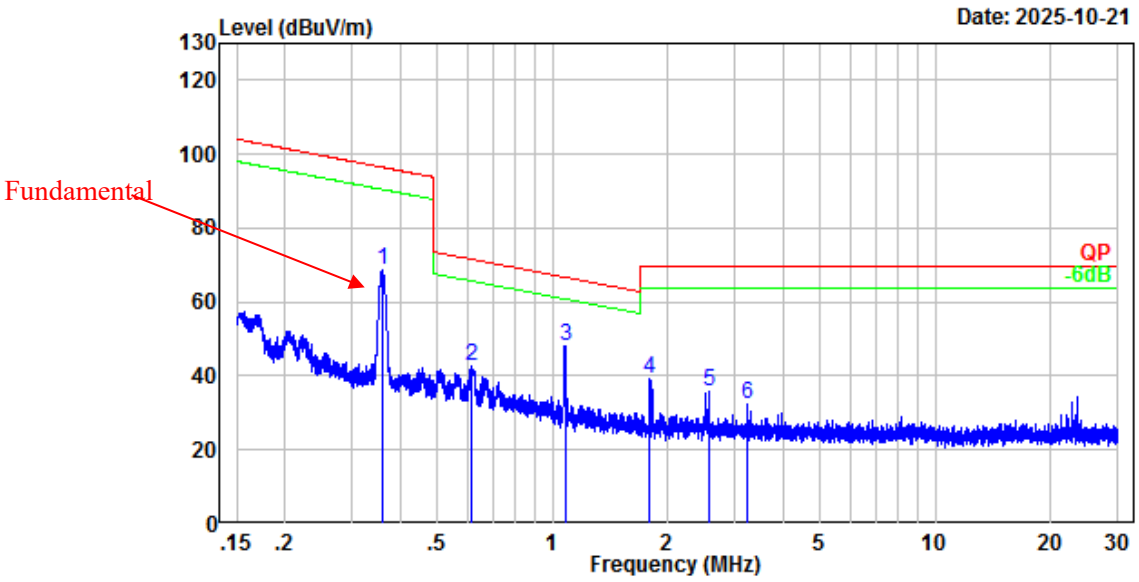
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.32	23.54	55.86	127.70	-71.84	Peak
2	0.017	30.94	20.76	51.70	122.92	-71.22	Peak
3	0.030	28.48	21.95	50.43	118.00	-67.57	Peak
4	0.056	25.83	34.30	60.13	112.68	-52.55	Peak
5	0.104	21.79	34.79	56.58	107.30	-50.72	Peak
6	0.112	21.31	33.42	54.73	106.65	-51.92	Peak

150 kHz~30 MHz

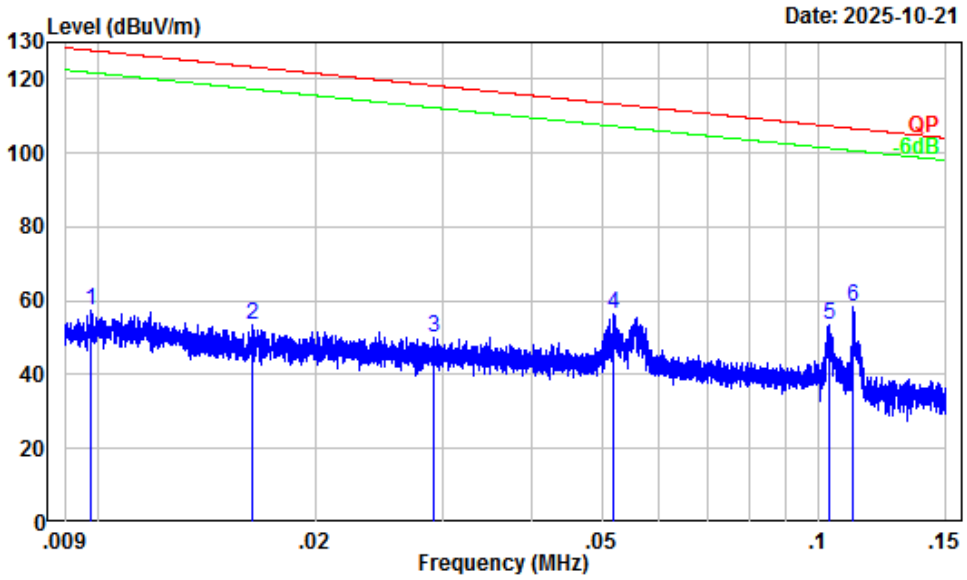


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.360	9.07	59.45	68.52	96.49	-27.97	Peak
2	0.613	5.01	37.46	42.47	71.82	-29.35	Peak
3	1.080	0.98	47.14	48.12	66.79	-18.67	Peak
4	1.799	-1.04	40.28	39.24	69.54	-30.30	Peak
5	2.564	-1.91	37.48	35.57	69.54	-33.97	Peak
6	3.239	-2.28	34.80	32.52	69.54	-37.02	Peak

Perpendicular:

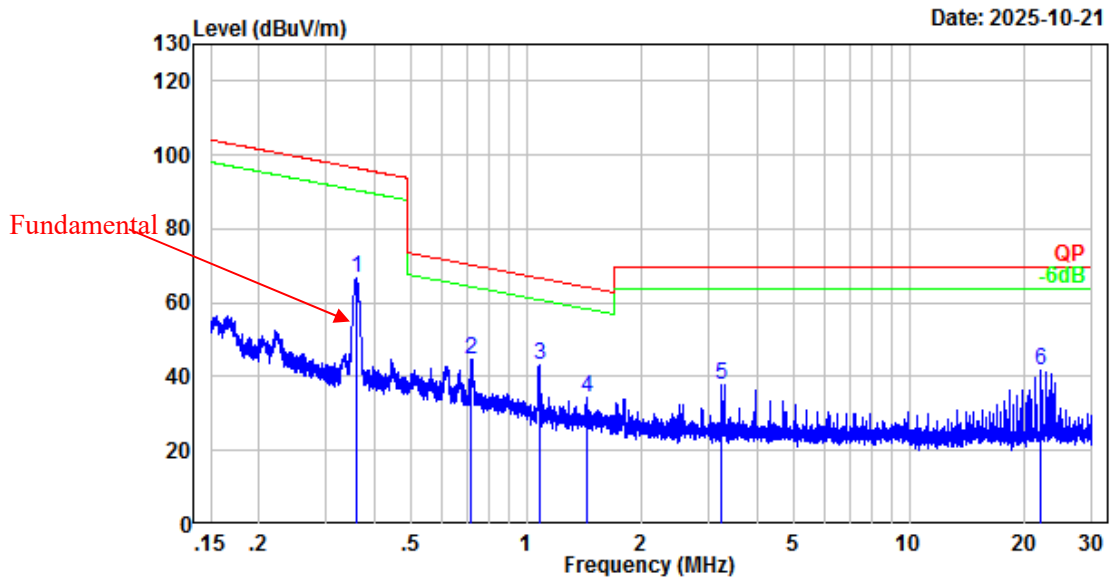
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.34	24.82	57.16	127.78	-70.62	Peak
2	0.016	31.09	22.42	53.51	123.31	-69.80	Peak
3	0.029	28.64	21.40	50.04	118.27	-68.23	Peak
4	0.052	26.22	30.33	56.55	113.31	-56.76	Peak
5	0.103	21.82	31.51	53.33	107.34	-54.01	Peak
6	0.112	21.31	36.85	58.16	106.64	-48.48	Peak

150 kHz~30 MHz

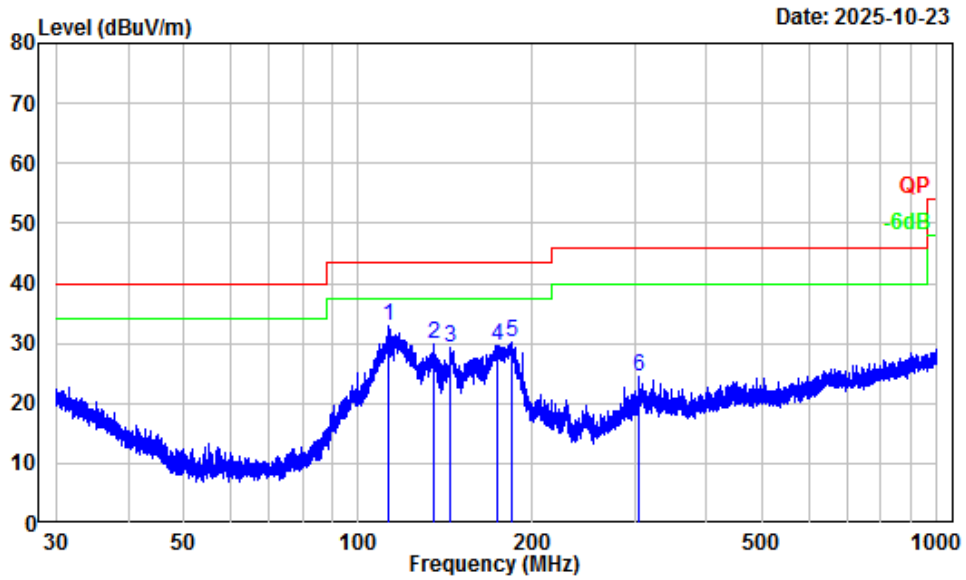


Site : Chamber A
Condition : 3m
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Note : Perendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.360	9.07	57.43	66.50	96.49	-29.99	Peak
2	0.720	3.69	40.99	44.68	70.39	-25.71	Peak
3	1.081	0.97	42.28	43.25	66.78	-23.53	Peak
4	1.439	-0.03	34.52	34.49	64.24	-29.75	Peak
5	3.241	-2.28	40.23	37.95	69.54	-31.59	Peak
6	21.961	-3.10	44.76	41.66	69.54	-27.88	Peak

30MHz~1GHz:

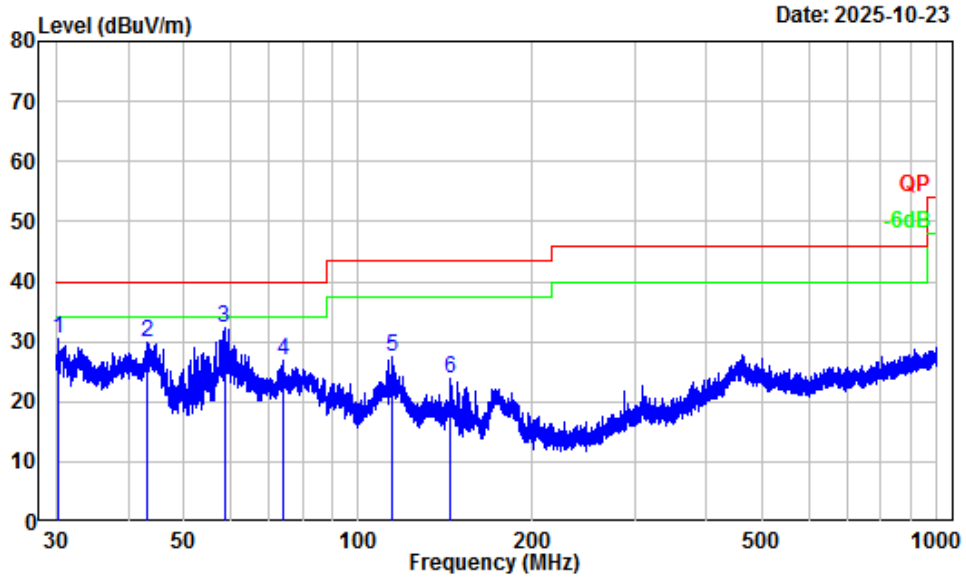
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	112.92	-12.52	45.30	32.78	43.50	-10.72	Peak
2	135.03	-11.47	41.27	29.80	43.50	-13.70	Peak
3	144.33	-12.13	41.37	29.24	43.50	-14.26	Peak
4	173.51	-13.22	42.94	29.72	43.50	-13.78	Peak
5	184.73	-13.61	43.84	30.23	43.50	-13.27	Peak
6	305.95	-10.95	35.28	24.33	46.00	-21.67	Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501T28710E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.34	-5.92	36.44	30.52	40.00	-9.48	Peak
2	43.07	-14.41	44.35	29.94	40.00	-10.06	Peak
3	58.64	-18.08	50.37	32.29	40.00	-7.71	Peak
4	74.10	-17.76	44.61	26.85	40.00	-13.15	Peak
5	114.36	-12.22	39.59	27.37	43.50	-16.13	Peak
6	144.02	-12.13	35.99	23.86	43.50	-19.64	Peak

FCC §15.215 (c) - 20 dB EMISSION BANDWIDTH

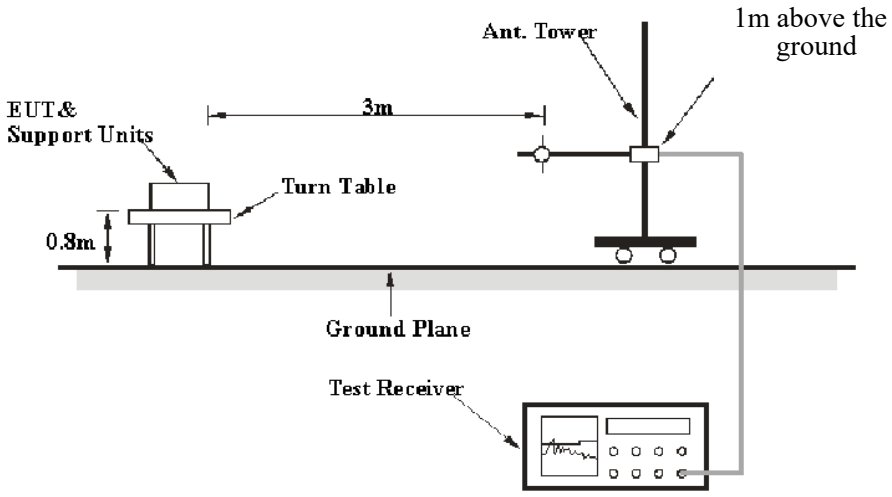
Applicable Standard

According to § 15.215 (c)

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

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.



Test Data

Environmental Conditions

Temperature:	25~26 ℃
Relative Humidity:	49~56 %
ATM Pressure:	100~102 kPa

The testing was performed by Anson Su from 2025-07-10 to 2025-10-22.

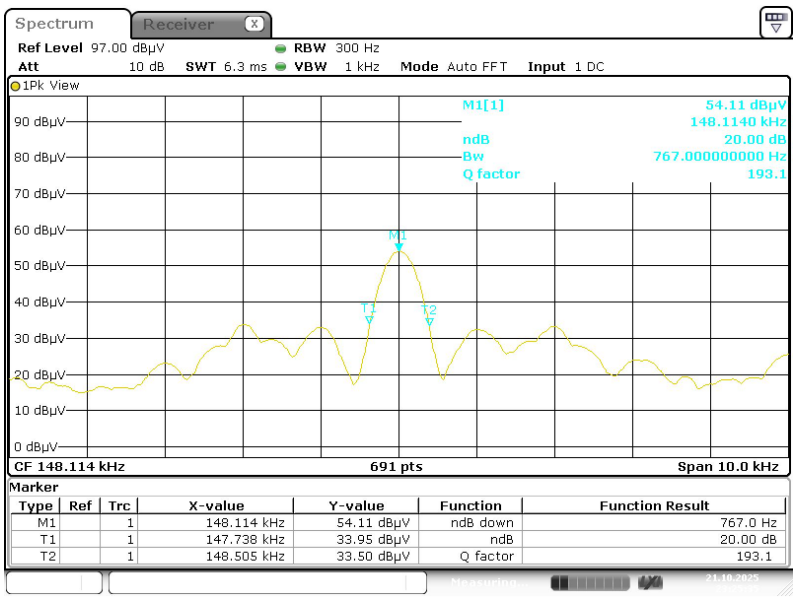
EUT operation mode: Transmitting

Test Result: Compliant. *Please refer to following table and plot.*

For Sample 334Y-1

Frequency (MHz)	20 dB Emission Bandwidth (kHz)
0.148	0.767
0.360	0.753

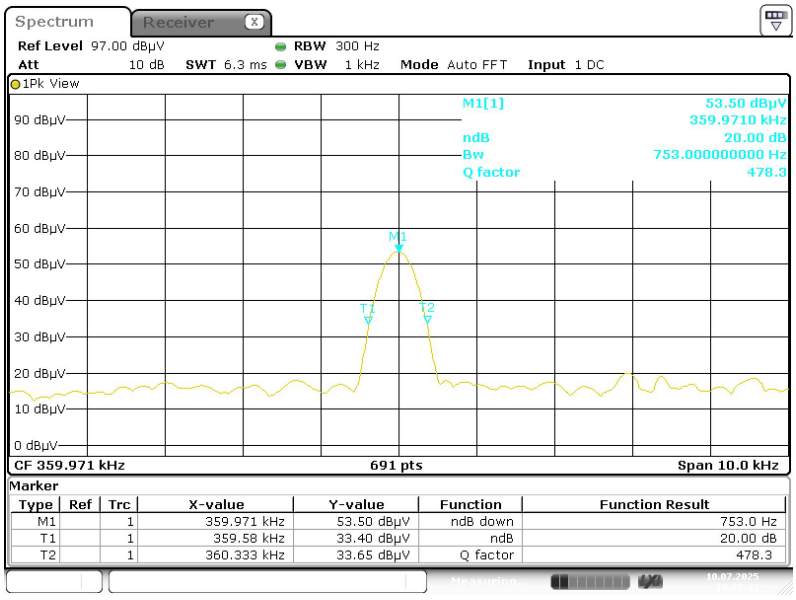
110.5-205 kHz



ProjectNo.:2501T28710E-RF Tester:Anson Su

Date: 21.OCT.2025 23:25:34

360 kHz



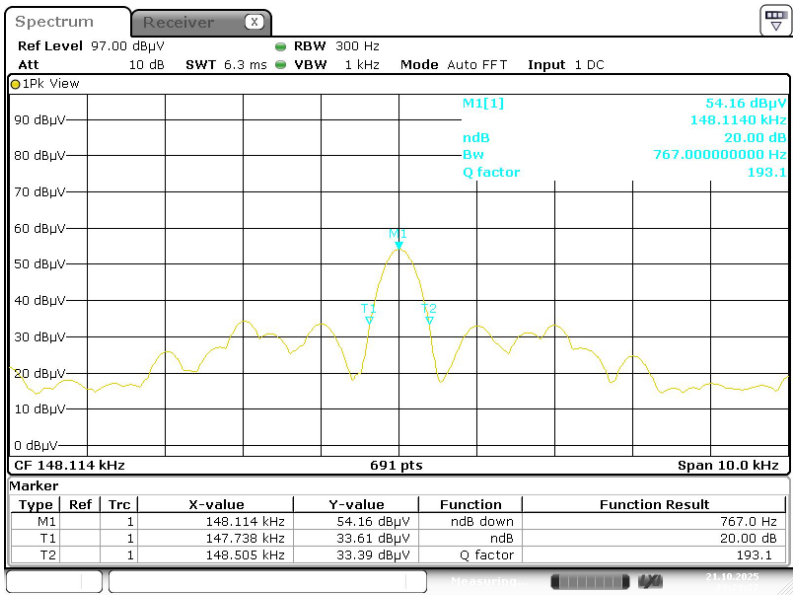
ProjectNo.:2501T28710E-RF Tester:Anson Su

Date: 10.JUL.2025 19:07:31

For Sample 334Y-2

Frequency (MHz)	20 dB Emission Bandwidth (kHz)
0.148	0.767
0.360	0.753

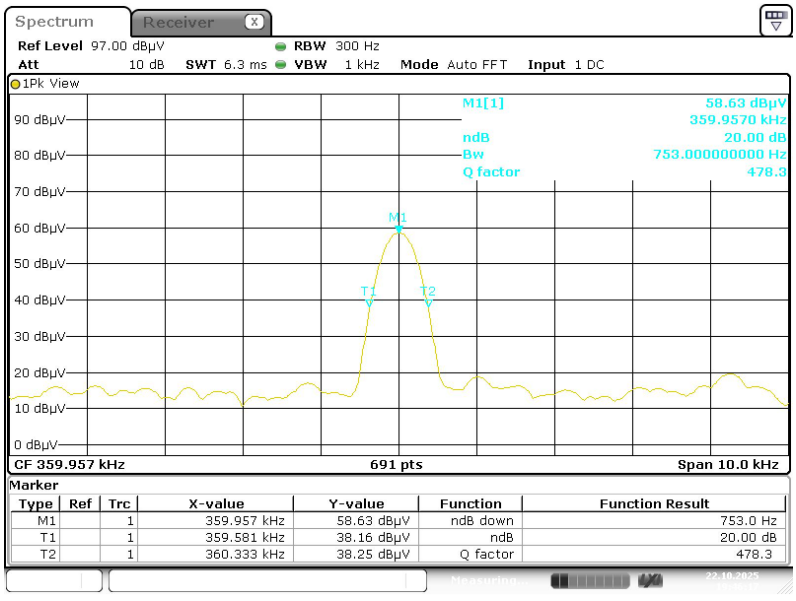
110.5-205 kHz



ProjectNo.:2501T28710E-RF Tester:Anson Su

Date: 21.OCT.2025 23:23:27

360 kHz



ProjectNo.:2501T28710E-RF Tester:Anson Su

Date: 22.OCT.2025 19:46:18

EUT PHOTOGRAPHS

Please refer to the attachment 2501T28710E-RF-EXP External photo and 2501T28710E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501T28710E-RF-00-TSP Test Setup photo.

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