TEST REPORT

Applicant Name:	JEM ACCESSORIES INC.
Address:	32 Brunswick Avenue, Edison, New Jersey, United States, 08817
Report Number:	2601S50962E-RF-00B
FCC ID:	2AHAS-PFM31002H

Test Standard (s)

FCC PART 15.239

Sample Description

Product Type:	Wireless FM Transmitter and Car Charger
Model No.:	PFM3-1002-BLK
Multiple Model(s) No.:	N/A
Trade Mark:	N/A
Date Received:	2026-04-09
Issue Date:	2026-07-01

Test Result:	Pass▲

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

Prepared and Checked By:

Allen Bai
RF Engineer

Approved By:

Nancy Wang
RF Supervisor

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601S50962E-RF-00B	Original Report	2026-07-01

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	88.1-107.9MHz
Maximum E-field strength	44.74 dBuV/m@3m
Modulation Technique	FM
Voltage Range	DC 12-24V
Sample serial number	3JGR-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This test report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.239 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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		52.29kHz(k=1.96, 95% level of confidence)
RF Frequency		81.235Hz(k=1.96, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.46dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.72dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
	1GHz - 6GHz	6.18dB(k=2, 95% level of confidence)
	6GHz - 18GHz	6.62dB(k=2, 95% level of confidence)
	18GHz - 40GHz	6.66dB(k=2, 95% level of confidence)
Temperature		±0.4℃
Humidity		±2%
Supply voltages		DC±0.4%;AC±1%

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 in a testing mode which provided by manufacturer. The operating frequency is 88.1-107.9MHz. The 88.1MHz, 98.1MHz and 107.9MHz were chosen for test.

Note: The device supports DC12-24V power supply, after pre testing, it was found that the worst-case was when the power supply voltage was DC 12V, so it was selected to complete all tests.

Input 2.5 kHz tone through Bluetooth function of mobile phone and EUT connection.

EUT Exercise Software

No exercise software was used.

Equipment Modifications

No modifications were made to the unit tested.

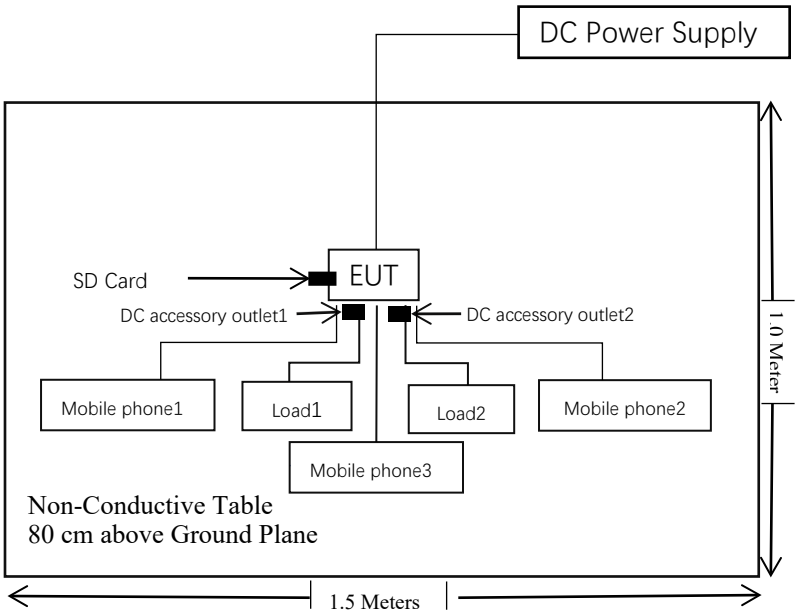
Manufacturer	Description	Model	Serial Number
instek	DC Power Supply	GPS-3030DD	EM832096
Unknown	Load1	Unknown	Unknown
Unknown	Load2	Unknown	Unknown
Eadet	SD Card	T1	Unknown
MIUI	Mobile phone1	Redmi Note 12T Pro	48257/S3T100576
Redmi 14C	Mobile phone2	G18-Ultra	Unknown
beco	Mobile phone3	A750	M189US001074A060070
Unknown	DC accessory outlet1	Unknown	Unknown
Unknown	DC accessory outlet2	Unknown	Unknown

External I/O Cable

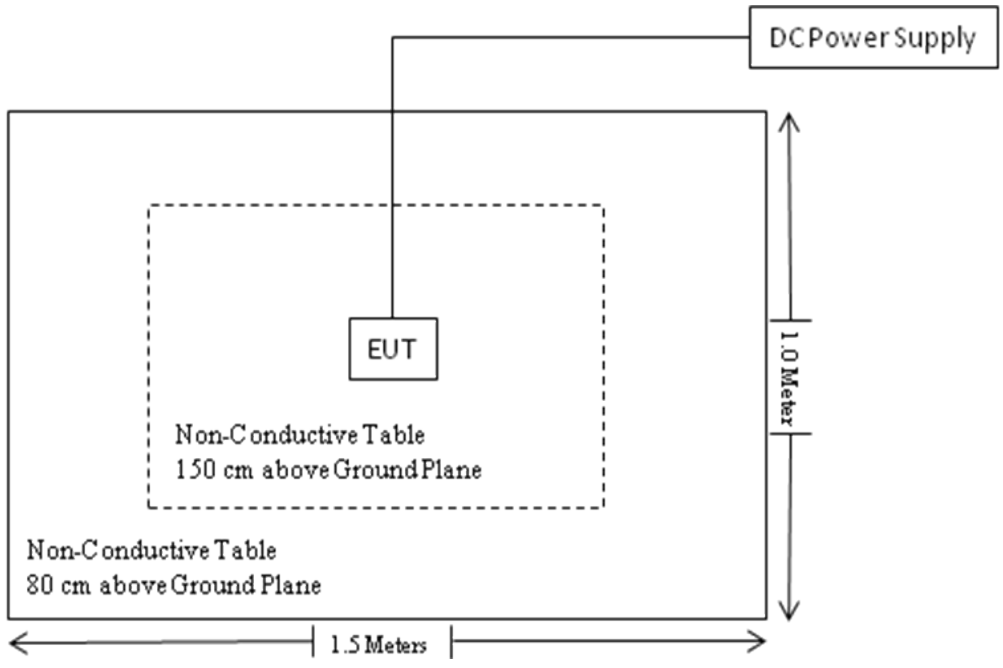
Cable Description	Length (m)	From Port	To
Unshielded detachable DC cable	5.0	EUT	DC Power Supply
Unshielded detachable DC cable	1.0	Mobile phone1	EUT
Unshielded detachable DC cable	1.5	Mobile phone2	EUT
Unshielded detachable DC cable	1.5	Mobile phone3	EUT
Unshielded Undetachable DC cable	0.2	Load1	DC accessory outlet1
Unshielded Undetachable DC cable	0.3	Load2	DC accessory outlet2

Block Diagram of Test Setup

For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §1.1307 (b) & §2.1091	Maximum Permissible Exposure(MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conducted Emissions	Not Applicable
§15.205, §15.209, §15.239(b)(c)	Radiated Spurious Emissions	Compliant
§15.239 (a)	20dB Bandwidth Emission	Compliant

Not Applicable: This device is used in-vehicle environment

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
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
20 dB Bandwidth Emission					
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

*** 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 §1.1307(b) & 2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

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

Result

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/cm^2)
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)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \le 1$$

Result

For worst case:

Mode	Frequency (MHz)	Antenna Gain#		Tune up conducted power#		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
BT	2412-2462	1.9	1.55	2	1.58	20	0.0005	1

Mode	Frequency (MHz)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
FM	88.1-107.9	-50.46	0.000009	20	≤0.00001	0.2
Note: EIRP = E-Field – 95.2 @3m So the maximum EIRP=(44.74-95.2)dBm=-50.46dBm						

Simultaneous transmitting consideration (Worst case):

The FM and BT can transmit simultaneously,

The ratio= $MPE_{BT}/limit_{BT}$+ $MPE_{FM}/limit_{FM}$= 0.0005/1+0.00001/0.2=0.00055<1.0

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

Result: Compliant

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 Connector Construction

The EUT has an internal antenna which was permanently attached fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

FCC§15.209 & §15.239(b) - RADIATED EMISSIONS

Applicable Standard

FCC§15.209&FCC§15.239 (b)(c)

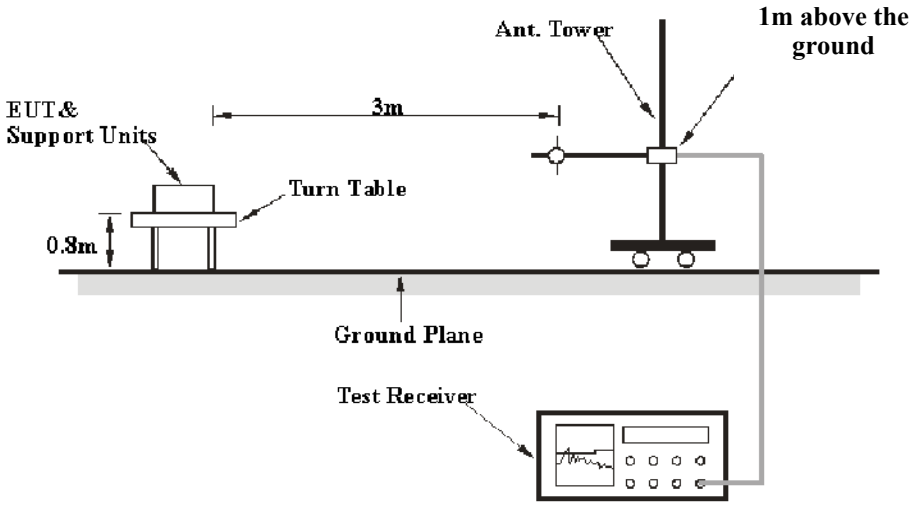
Limit

The field strength of any emissions within the authorized bandwidth shall not exceed 250μV/m measured at 3m with an average meter.

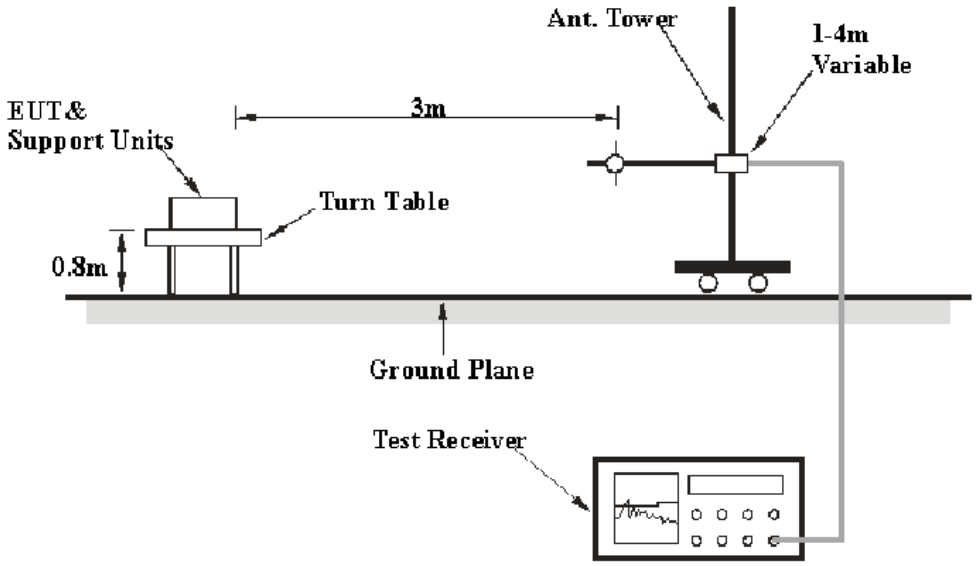
The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in § 15.209.

EUT Setup

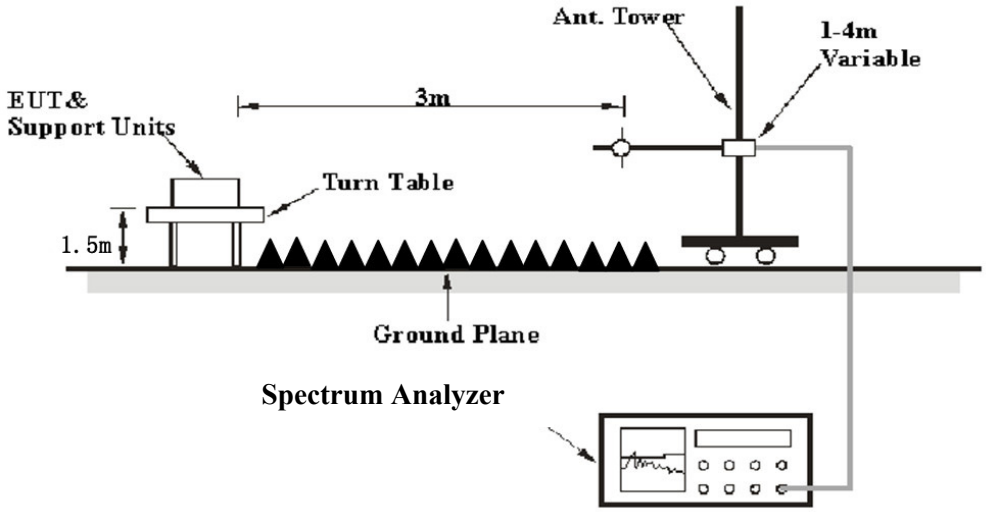
9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209/15.205 and FCC 15.239 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
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
	120 kHz	500 kHz	/	PK	PK
Above 1 GHz	1MHz	3 MHz	/	PK	PK
	1MHz	10 Hz	/	Average	PK

Test Procedure

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

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

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:

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

Test Data

Environmental Conditions

Temperature:	20.4~24.9 ℃
Relative Humidity:	46 %
ATM Pressure:	100.2~101.4 kPa

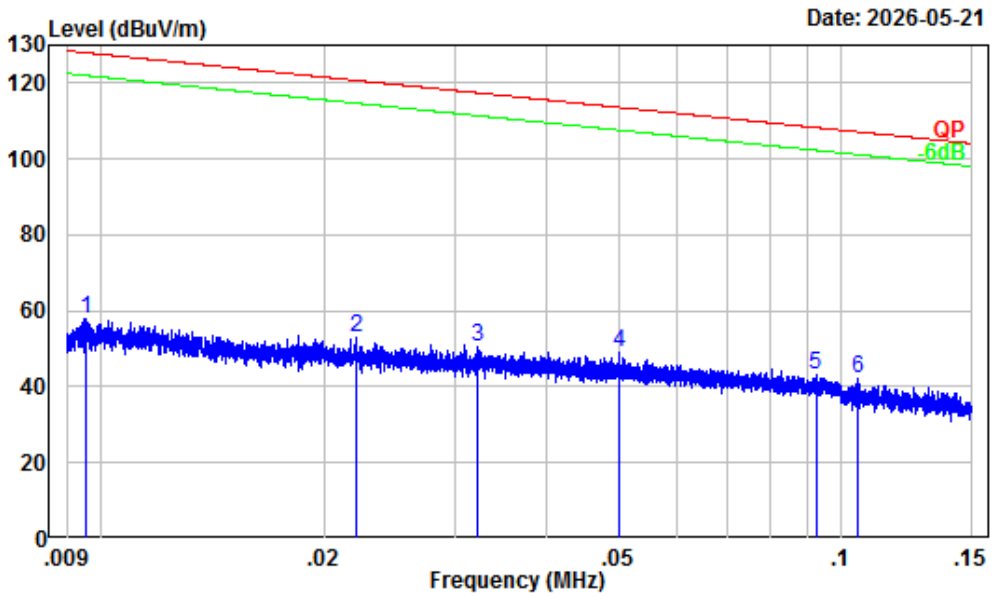
The testing was performed by Nico Wu and Alex Yan from 2026-05-21 to 2026-06-24 for below 1GHz, Wing K Ji on 2026-04-20 for above 1GHz.

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 1GHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.
3. Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.

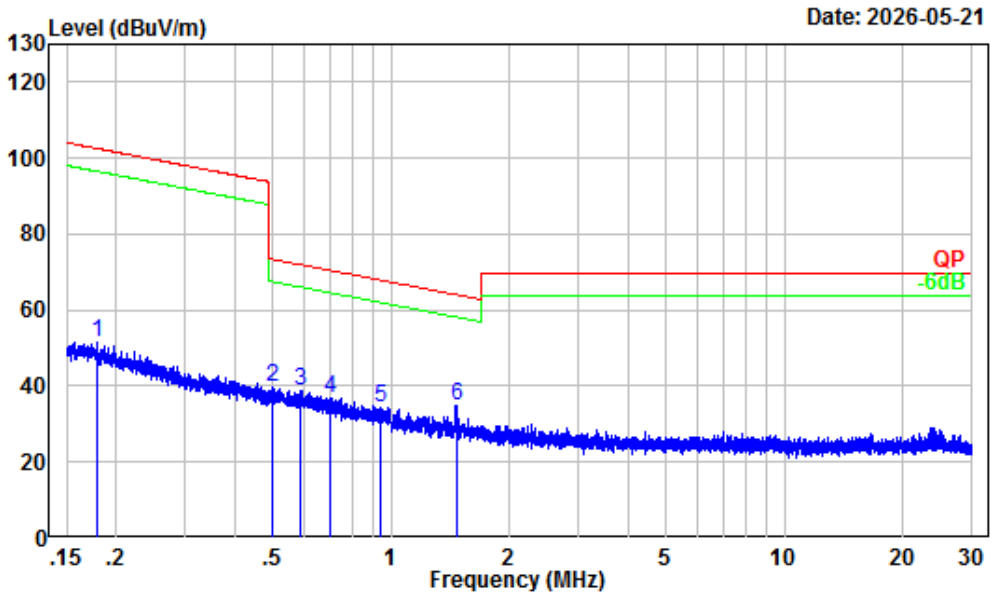
9 kHz-30MHz: worst case at Middle channel

Parallel (worst case)



Site : Chamber A
Condition : 3m
Project Number : 2601S50962E-RF
Test Mode : FM 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	32.39	25.35	57.74	128.03	-70.29	Peak
2	0.022	29.99	22.80	52.79	120.69	-67.90	Peak
3	0.032	28.26	22.42	50.68	117.41	-66.73	Peak
4	0.050	26.40	22.73	49.13	113.63	-64.50	Peak
5	0.092	22.54	20.76	43.30	108.30	-65.00	Peak
6	0.105	21.68	20.37	42.05	107.15	-65.10	Peak

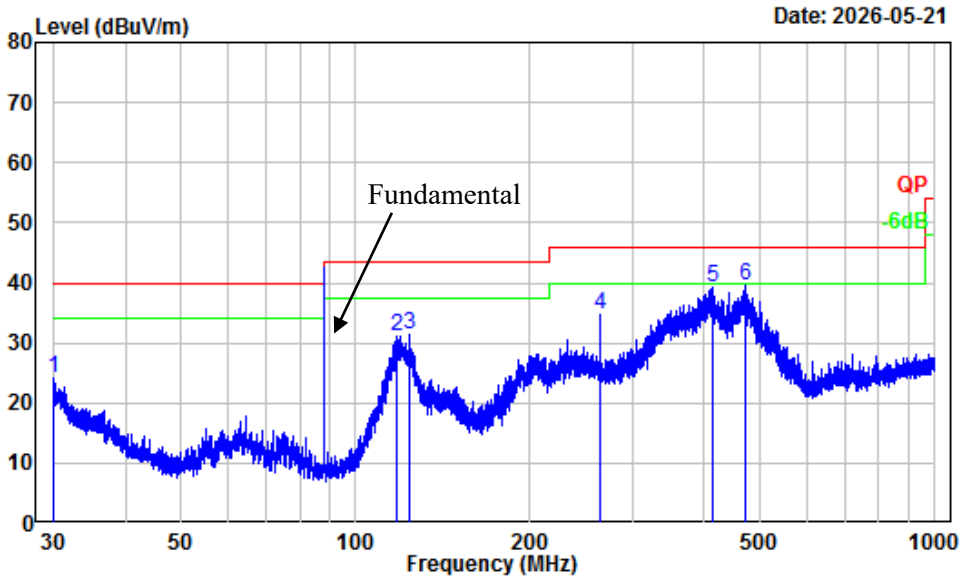


Site : Chamber A
Condition : 3m
Project Number : 2601S50962E-RF
Test Mode : FM Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.179	17.34	34.07	51.41	102.55	-51.14	Peak
2	0.500	6.41	33.39	39.80	73.63	-33.83	Peak
3	0.591	5.28	33.31	38.59	72.14	-33.55	Peak
4	0.705	3.88	33.11	36.99	70.58	-33.59	Peak
5	0.938	1.66	32.83	34.49	68.04	-33.55	Peak
6	1.468	-0.11	35.15	35.04	64.07	-29.03	Peak

30MHz-1GHz: worst case at Middle channel

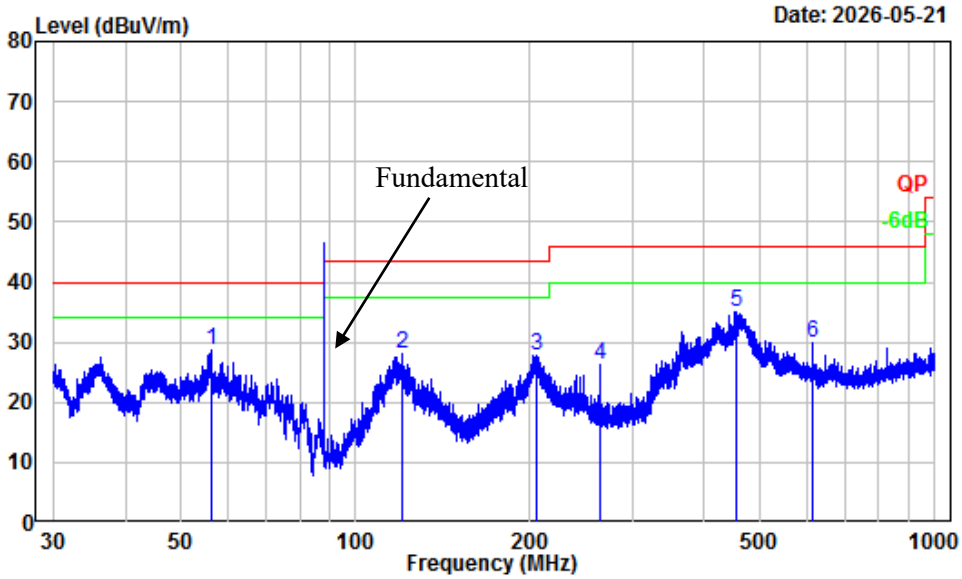
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601S50962E-RF
Test Mode : FM 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	30.16	-5.83	29.93	24.10	40.00	-15.90	Peak
2	117.57	-11.70	42.74	31.04	43.50	-12.46	Peak
3	124.02	-11.13	42.43	31.30	43.50	-12.20	Peak
4	264.28	-12.27	47.12	34.85	46.00	-11.15	Peak
5	412.19	-8.08	47.40	39.32	46.00	-6.68	Peak
6	471.56	-6.54	46.01	39.47	46.00	-6.53	Peak

Vertical

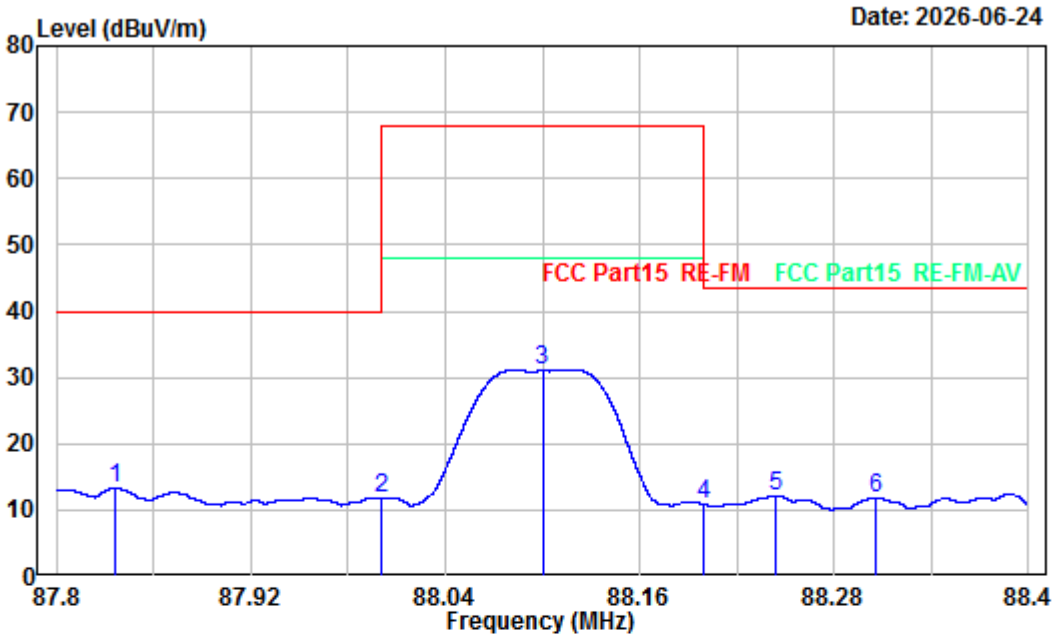


Site : Chamber A
Condition : 3m Vertical
Project Number : 2601S50962E-RF
Test Mode : FM Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	56.32	-18.18	46.86	28.68	40.00	-11.32	Peak
2	119.96	-11.45	39.58	28.13	43.50	-15.37	Peak
3	205.31	-13.36	41.19	27.83	43.50	-15.67	Peak
4	264.28	-12.27	38.66	26.39	46.00	-19.61	Peak
5	452.72	-7.03	41.97	34.94	46.00	-11.06	Peak
6	616.91	-4.47	34.36	29.89	46.00	-16.11	Peak

Out-of-band spurious and Fundamental E-Field strength:

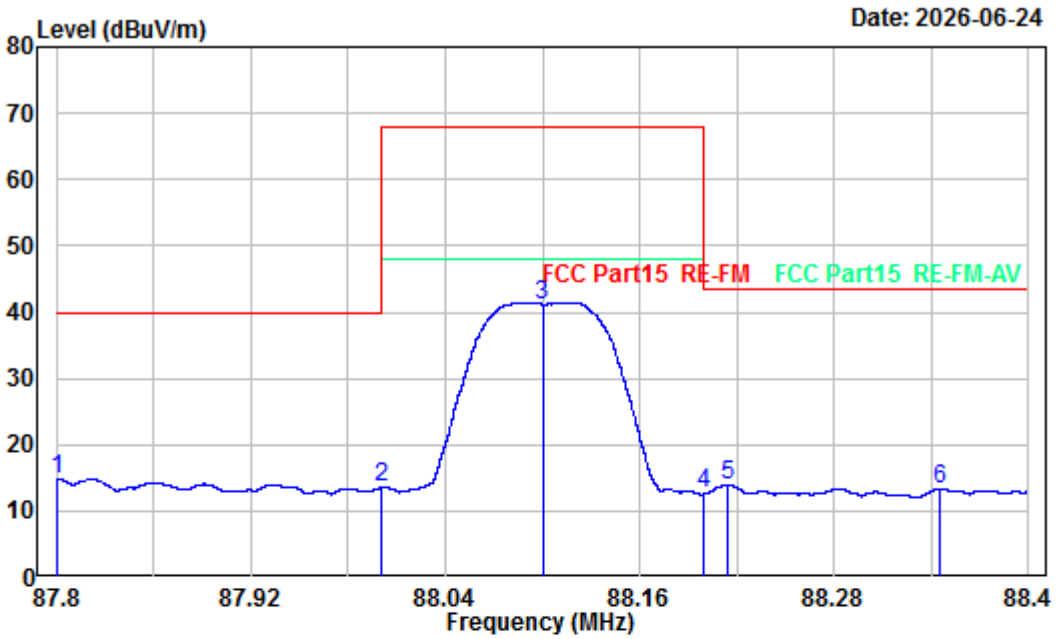
Test Channel:	88.1MHz	Ant. Polar. :	Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601S50962E-RF
Test Mode : FM 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	87.84	-17.97	31.18	13.21	40.00	-26.79	Peak
2	88.00	-17.97	29.68	11.71	43.50	-31.79	Peak
3	88.10	-17.97	48.98	31.01	68.00	-36.99	Peak
4	88.20	-17.97	28.77	10.80	43.50	-32.70	Peak
5	88.24	-17.97	30.14	12.17	43.50	-31.33	Peak
6	88.31	-17.97	29.76	11.79	43.50	-31.71	Peak

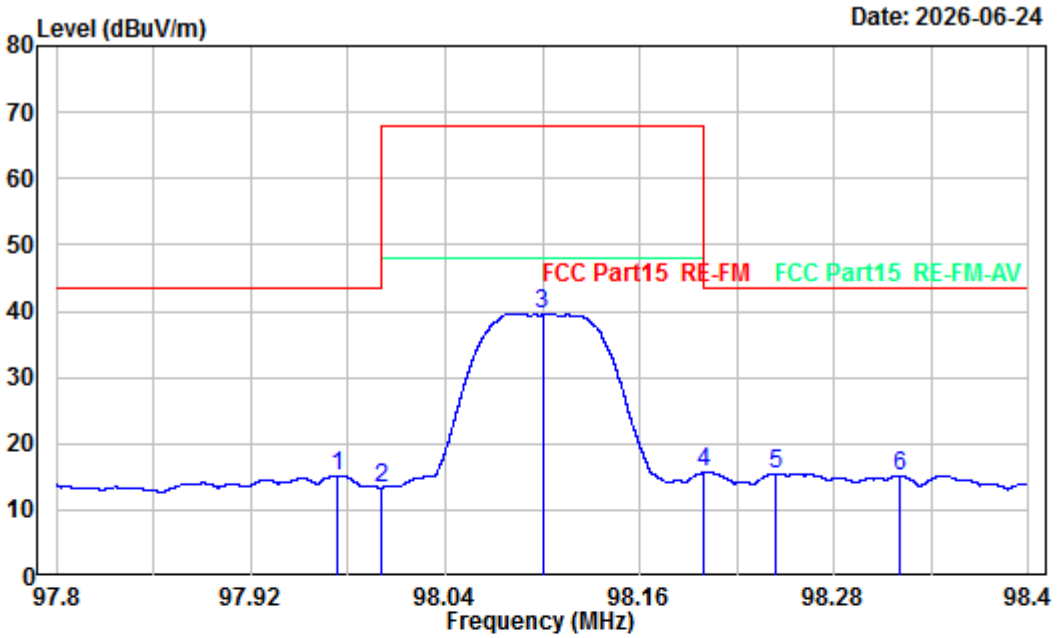
Test Channel:	88.1MHz	Ant. Polar. :	Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601S50962E-RF
Test Mode : FM 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	87.80	-17.97	32.88	14.91	40.00	-25.09	Peak
2	88.00	-17.97	31.44	13.47	40.00	-26.53	Peak
3	88.10	-17.97	59.07	41.10	68.00	-26.90	Peak
4	88.20	-17.97	30.51	12.54	43.50	-30.96	Peak
5	88.21	-17.97	31.81	13.84	43.50	-29.66	Peak
6	88.35	-17.97	31.34	13.37	43.50	-30.13	Peak

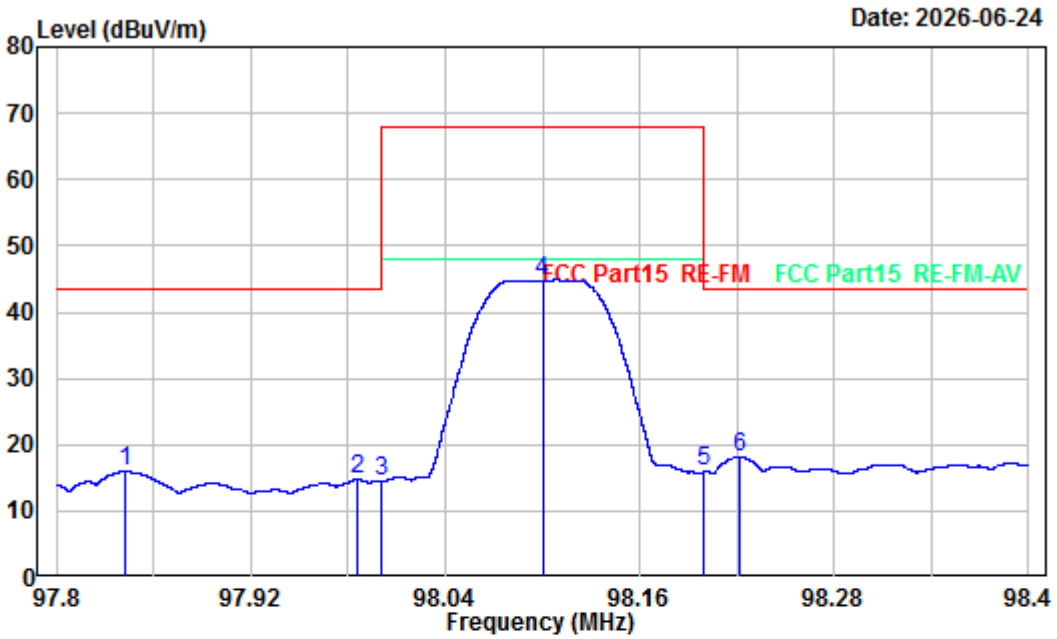
Test Channel:	98.1MHz	Ant. Polar. :	Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601S50962E-RF
Test Mode : FM 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	97.97	-16.39	31.61	15.22	43.50	-28.28	Peak
2	98.00	-16.37	29.70	13.33	43.50	-30.17	Peak
3	98.10	-16.34	55.78	39.44	68.00	-28.56	Peak
4	98.20	-16.31	31.94	15.63	43.50	-27.87	Peak
5	98.24	-16.30	31.79	15.49	43.50	-28.01	Peak
6	98.32	-16.27	31.42	15.15	43.50	-28.35	Peak

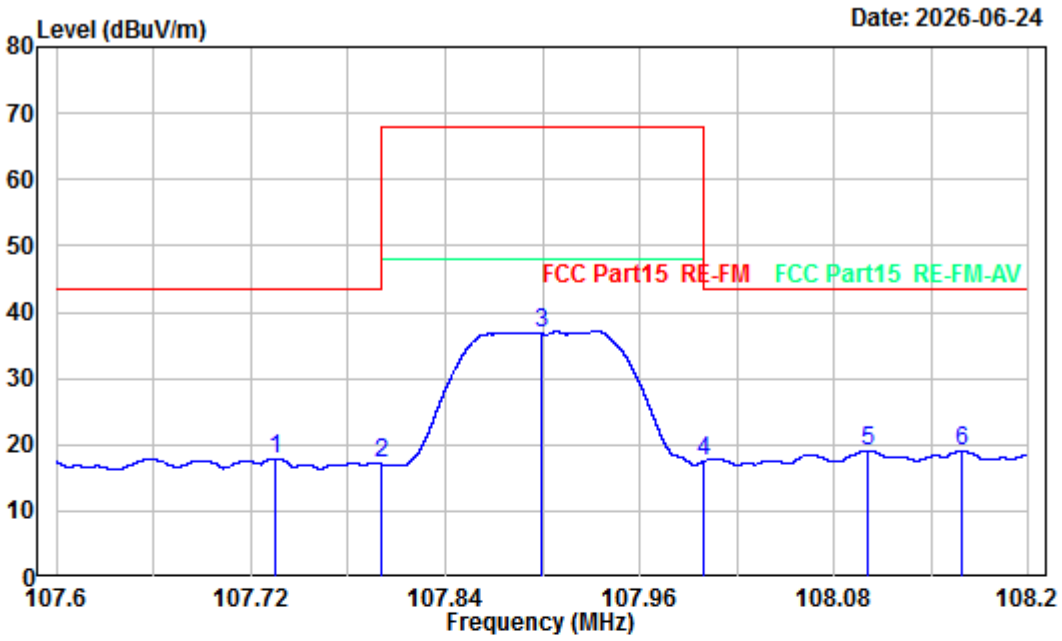
Test Channel:	98.1MHz	Ant. Polar. :	Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601S50962E-RF
Test Mode : FM 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	97.84	-16.43	32.35	15.92	43.50	-27.58	Peak
2	97.99	-16.38	31.10	14.72	43.50	-28.78	Peak
3	98.00	-16.37	30.85	14.48	43.50	-29.02	Peak
4	98.10	-16.34	61.08	44.74	68.00	-23.26	Peak
5	98.20	-16.31	32.16	15.85	43.50	-27.65	Peak
6	98.22	-16.30	34.42	18.12	43.50	-25.38	Peak

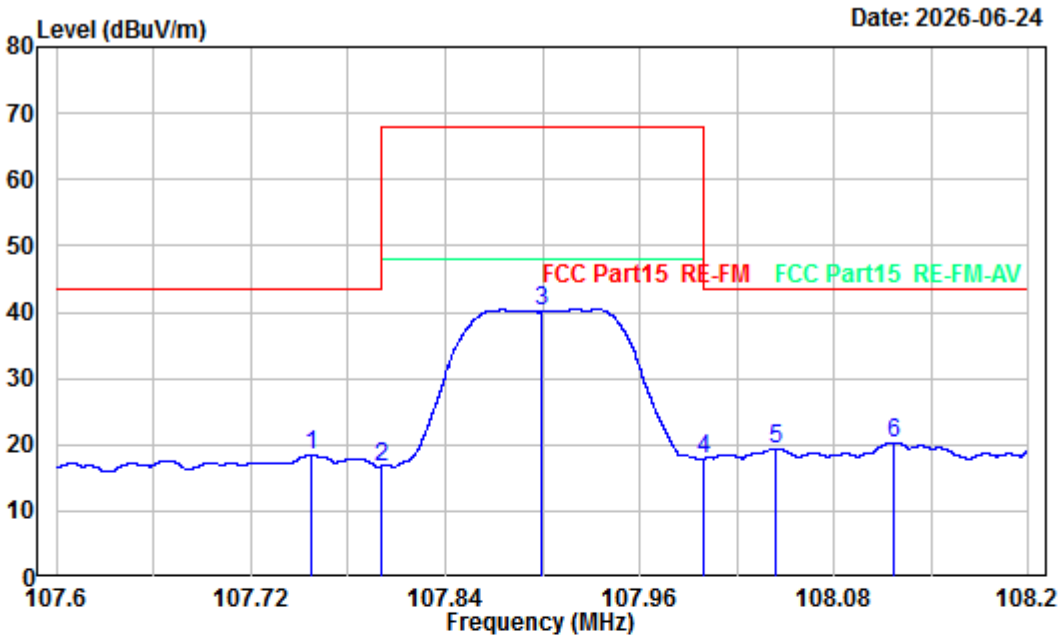
Test Channel:	107.9 MHz	Ant. Polar. :	Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601S50962E-RF
Test Mode : FM 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	107.73	-13.57	31.49	17.92	43.50	-25.58	Peak
2	107.80	-13.56	30.63	17.07	43.50	-26.43	Peak
3	107.90	-13.54	50.25	36.71	68.00	-31.29	Peak
4	108.00	-13.52	31.06	17.54	43.50	-25.96	Peak
5	108.10	-13.50	32.53	19.03	43.50	-24.47	Peak
6	108.16	-13.49	32.50	19.01	43.50	-24.49	Peak

Test Channel:	107.9 MHz	Ant. Polar. :	Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601S50962E-RF
Test Mode : FM Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

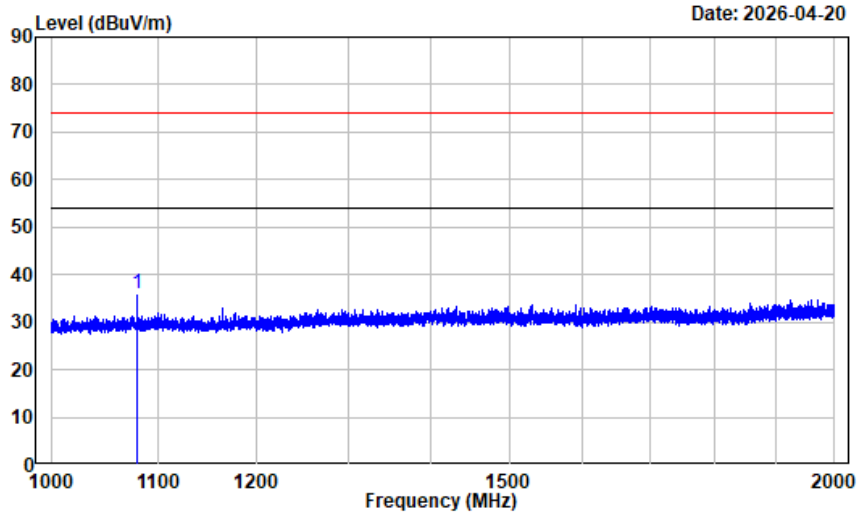
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	107.76	-13.57	31.99	18.42	43.50	-25.08	Peak
2	107.80	-13.56	30.29	16.73	43.50	-26.77	Peak
3	107.90	-13.54	53.58	40.04	68.00	-27.96	Peak
4	108.00	-13.52	31.47	17.95	43.50	-25.55	Peak
5	108.04	-13.51	32.84	19.33	43.50	-24.17	Peak
6	108.12	-13.50	33.83	20.33	43.50	-23.17	Peak

Above 1GHz:

Frequency (MHz)	Reading (dBµV)	PK/AV	Polar (H/V)	Factor (dB/m)	Absolute Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
High Channel							
1079.00	51.24	PK	H	-15.28	35.96	74	-38.04
1079.00	49.76	PK	V	-15.28	34.48	74	-39.52

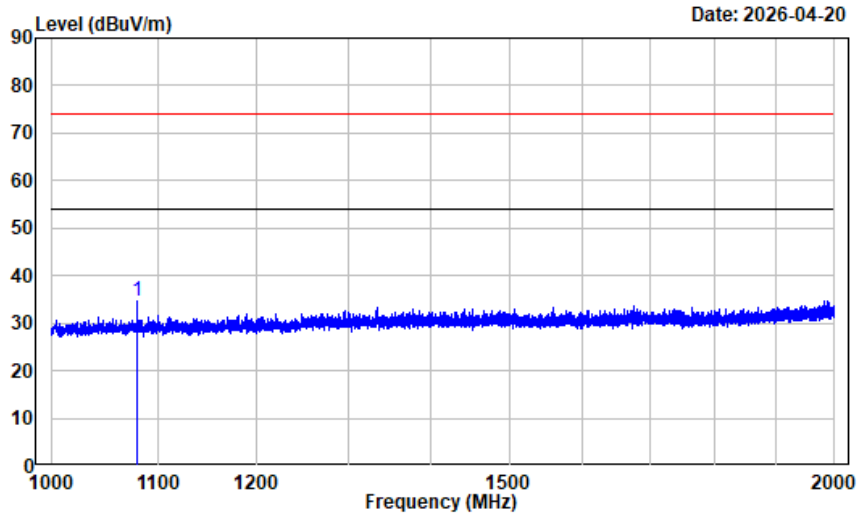
Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Absolute Level (Corrected Amplitude） = Factor + Reading
Margin = Absolute Level - Limit
The other spurious emission which is 20dB to the limit or in noise floor level was not recorded.
The peak value was less than the average limit, so just peak value was recorded

Listed with the worst margin test plot:

Horizontal	
1-2GHz	 Condition : Horizontal Project No. : 2601S50962E-RF Tester : Wing K Ji Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak Note : FM_107.9 Freq / Factor / Read Level / Level / Limit Line / Over Limit / Remark MHz / dB/m / dBuV / dBuV/m / dBuV/m / dB 1 1079.000 -15.28 51.24 35.96 74.00 -38.04 Peak

Vertical

1-2GHz



Condition : Vertical
Project No. : 2601S50962E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : FM_107.9

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1079.000	-15.28	49.76	34.48	74.00	-39.52	Peak

FCC§15.239(a) - 20dB BANDWIDTH

Applicable Standard

FCC §15.239(a)

Limit

According to §15.239(a) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108MHz.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 6.9.2

A dBc bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are −6 dB, −20 dB, and −26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by "−xx dB." The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the "−xx dB" bandwidth; other requirements might specify that the "−xx dB" bandwidth be entirely contained within the authorized or designated frequency band.[51]

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be at least three times RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.

d) Steps a) through c) might require iteration to adjust within the specified tolerances.

e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "−xx dB down" requirement; that is, if the requirement calls for measuring the −20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.

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

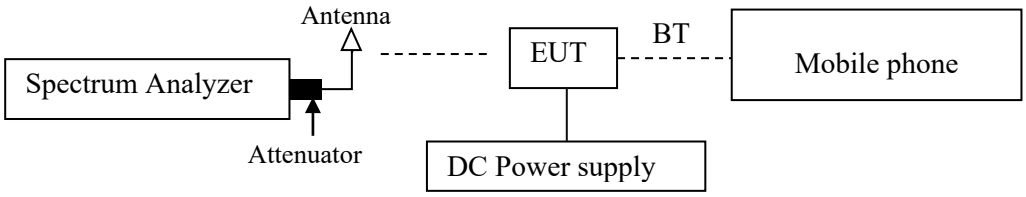
g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

h) Determine the "−xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

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

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

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



Test Data

Environmental Conditions

Temperature:	22.6 ℃
Relative Humidity:	47 %
ATM Pressure:	100.4 kPa

The testing was performed by Anson Su on 2026-07-01.

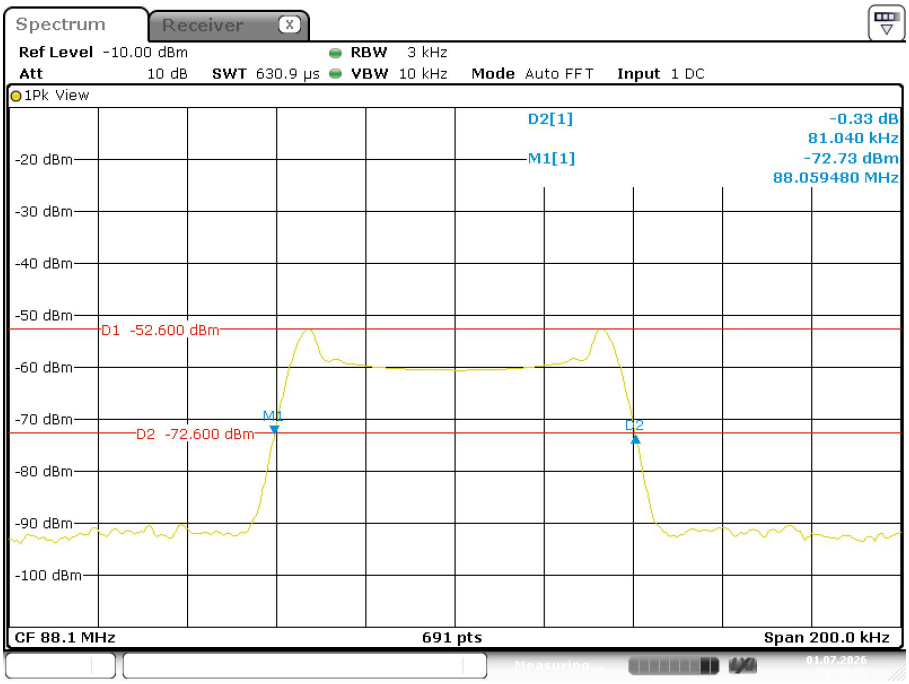
EUT operation mode: Transmitting

Please refer to the following table and plots.

Channel	Frequency (MHz)	20dB Bandwidth (kHz)	LimitkHz)
Low	88.1	81.04	200
Middle	98.1	87.77	
High	107.9	97.54	

20dB Bandwidth

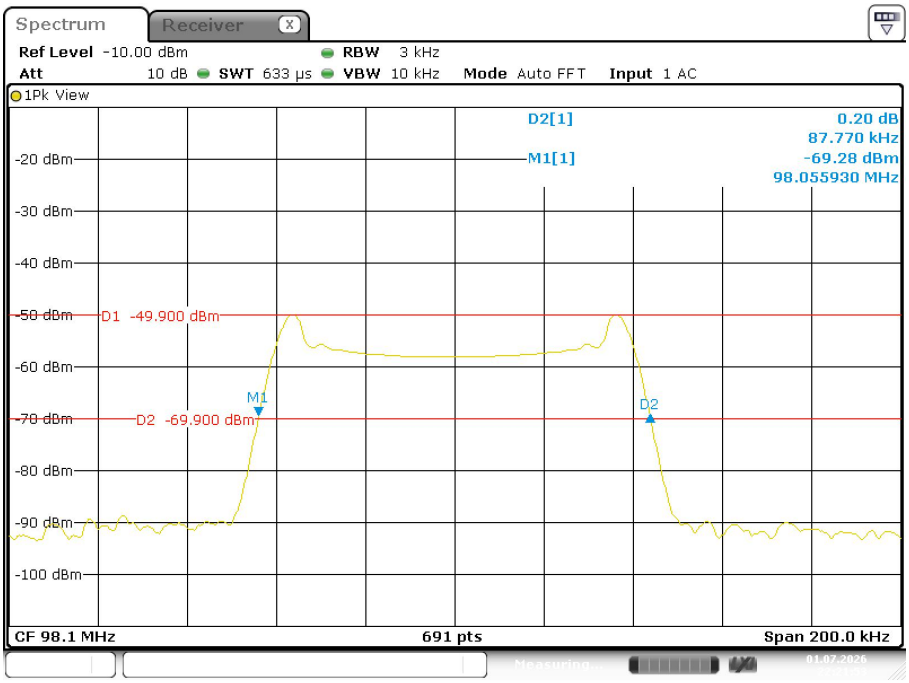
Low channel



ProjectNo.:2601S50962E-RF Tester:Anson Su

Date: 1.JUL.2026 20:52:05

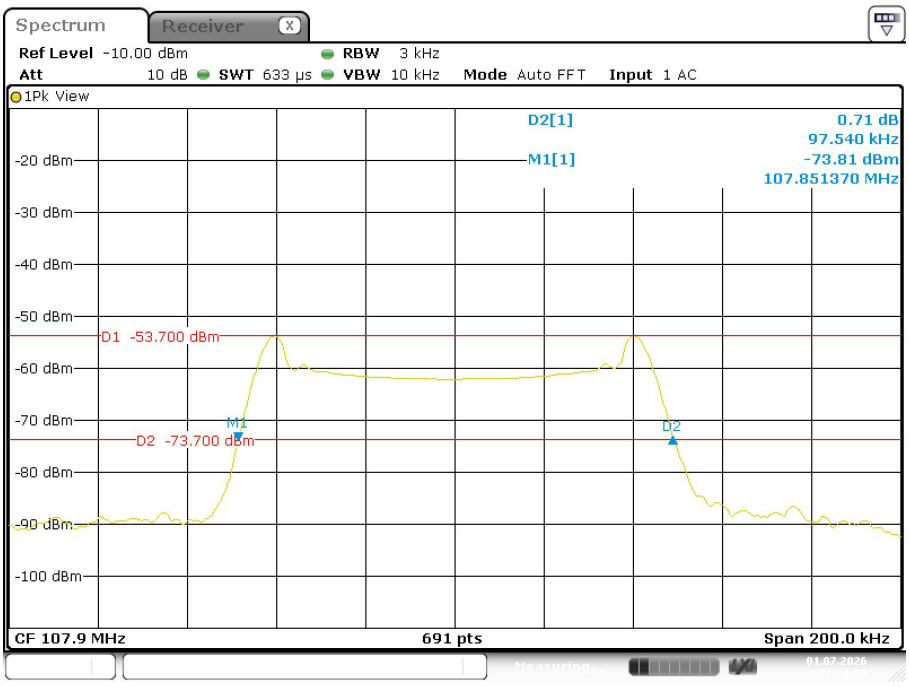
Middle Channel



ProjectNo.:2601S50962E-RF Tester:Anson Su

Date: 1.JUL.2026 22:21:53

High Channel



ProjectNo.:2601S50962E-RF Tester:Anson Su

Date: 1.JUL.2026 22:31:54

EUT PHOTOGRAPHS

Please refer to the attachment 2601S50962E-RF-EXP External photo and 2601S50962E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601S50962E-RF-TSP Test Setup photo.

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