



FCC PART 15B

TEST REPORT

For

WOUXUN COMMUNICATIONS LIMITED

11/F OFFICE A HARVARD COMMERCIAL BUILDING 105-111 THOMSON RD WAN CHAI HK,
HONGKONG, China, 999077

FCC ID: 2BGESWX005

Report Type: Original Report	Product Name: GMRS MOBILE RADIO
Report Number:	<u>2507A11393E-EM-01</u>
Report Date:	<u>2026-02-06</u>
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507A11393E-EM-01	R1V1	2026-02-06	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	WOUXUN COMMUNICATIONS LIMITED
Product Name:	GMRS MOBILE RADIO
Tested Model:	KG-XS30G
Multiple Model(s):	KG-XS30G Plus, KG-XS30G+, KG-XS30GR, KG-XS30GX, KG-XS30GR Plus, KG-XS30GX Plus
Trade mark:	WOUXUN
Power Supply:	DC 13.8V from vehicle system or DC source
Firmware Version:	N/A
Software Version:	N/A
★Highest Operating Frequency:	2480 MHz
EUT Received Status:	Good
<i>Note:</i> 1. The highest operating frequency is provided by the applicant. 2. The test model is identify with the series model except for the model name and appearance (color), please refer to declaration letter for more detail. 3 All measurement and test data in this report was gathered from production sample serial number: 3F08-3(Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2025-12-23).	

Objective

This report is prepared for *WOUXUN COMMUNICATIONS LIMITED* in accordance with Part 2-Subpart J, and Part 15-Subparts A and B of the Federal Communication Commission's rules.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the product as specified in CISPR 16-4-2. This uncertainty represents expanded uncertainty expressed at 95% confidence level using a coverage factor of k=2.

$$u_c(y) = \sqrt{\sum_i c_i^2 u^2(x_i)}$$

Item	Frequency Range	<i>U</i> _{lab} = 2 <i>u</i> _c (y) (Confidence of 95%)
Radiated Emissions	30MHz~200MHz (Horizontal)	3.33 dB
	30MHz~200MHz (Vertical)	3.51 dB
	200MHz~1GHz (Horizontal)	4.87 dB
	200MHz~1GHz (Vertical)	4.99 dB
	1GHz~6GHz	4.88 dB
	6GHz~18GHz	4.95 dB
Unwanted Emissions, conducted		2.92dB
Humidity		5%
Temperature		1°C

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test Mode 1: Operating & BT Link & Scanning Test Mode 2: Operating & BT Link & Receiving
Test voltage:	Test Mode 1&2: DC 13.8V from DC source
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

Operation Modes	Operation Frequency Range (MHz)	Test Frequency (MHz)
Scanning	400-480	400-480
UHF Receiving	400-480	400.0125, 440, 479.9875

EUT Exercise Software

No exercise software was used to test.

Special Accessories

No special accessory was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

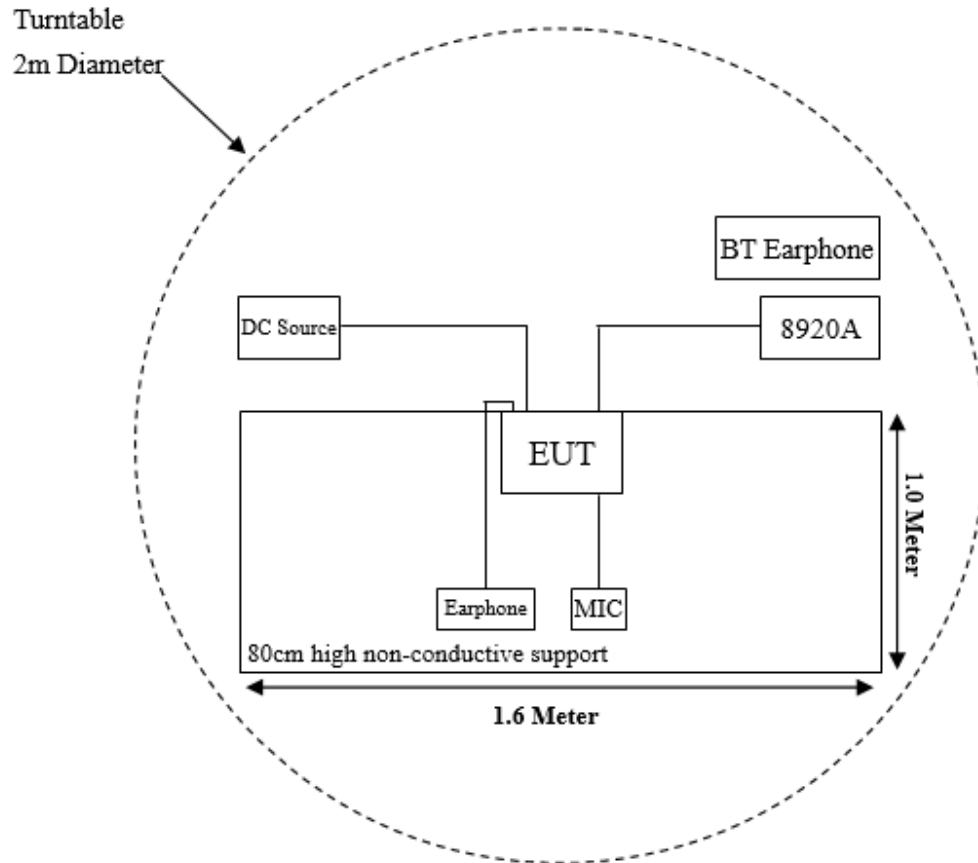
Manufacturer	Description	Model	Serial Number
HP	RF Communications test set	8920A	3524A07202
Unknown	Earphone	Unknown	Unknown
MAISHENG	DC Source	MS-606DS	1027453694
MIUI	BT Earphone	Redmi Buds 5 Pro	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To Port
Coaxial Cable	1	8920A	EUT
Earphone Cable	1	Earphone	EUT
DC Power Cable	2	DC Source	EUT

Block Diagram of Test Setup

Radiated Emission:



SUMMARY OF TEST RESULTS

Rule Part	Description of Test	Results
FCC§15.107	Conducted Emission	Not applicable (See Note 1)
FCC§15.109	Radiated Emission	Compliant
FCC §15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant
FCC §15.111	Antenna power conduction limits for receivers	Compliant

Note:

1. The EUT is powered by DC source.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission 30 MHz to 1 GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2026/01/21	2027/01/20
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2026/01/22	2027/01/21
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2026/01/20	2027/01/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emission Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2026/01/21	2027/01/20
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2026/01/14	2027/01/13
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2026/01/20	2027/01/19
Test Software	Audix	E3	18621a	N/A	N/A
Scanning Receiver					
Coaxial Cable	WEIHE	WH316	RFCC002	Each time	Each time
RF Communications test set	HP	8920A	3524A07202	2026/01/22	2027/01/21
Power Splitter	narda	4426LB-2	1661	Each time	Each time
Microwave Analog Signal Generator	Agilent	N5181A	MY48180319	2026/01/21	2027/01/20
Attenuator	Electronic Corporation	30-WA-FFN-30	1172435	2026/01/22	2027/01/21
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU 26	200199	2026/01/21	2027/01/20
Coaxial Cable	WEIHE	WH316	RFCC002	Each time	Each time

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

FCC §15.107 - CONDUCTED EMISSION

Applicable Standard

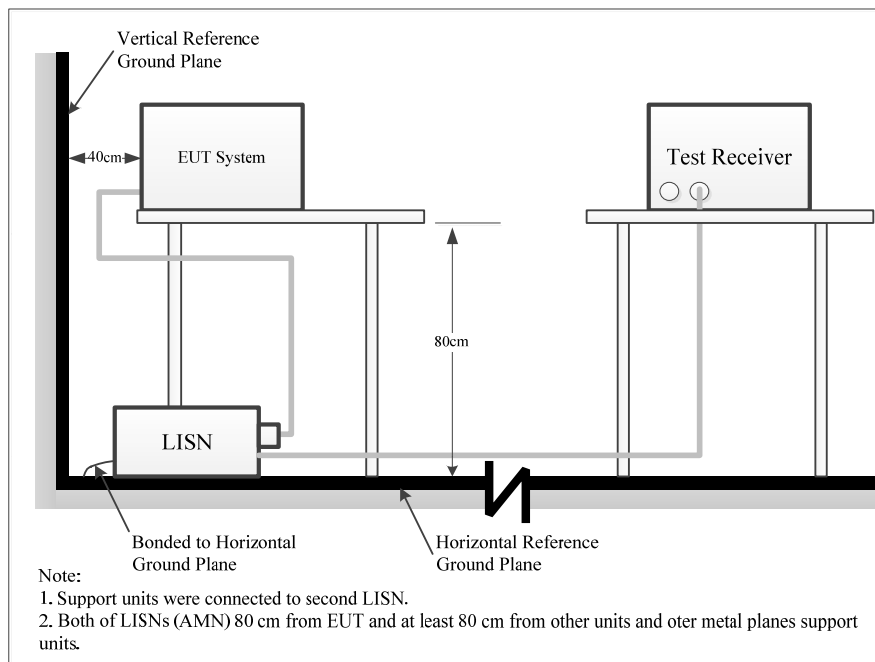
FCC §15.107

(a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

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

*Decreases with the logarithm of the frequency.

Test System Setup



The measurement procedure of test setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B limits.

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Result & Margin Calculation

The Result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Result (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}$$

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

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

Test Data

Test Result: N/A

Note: The EUT is powered by DC source.

FCC §15.109 - RADIATED EMISSION IN FREQUENCY

Applicable Standard

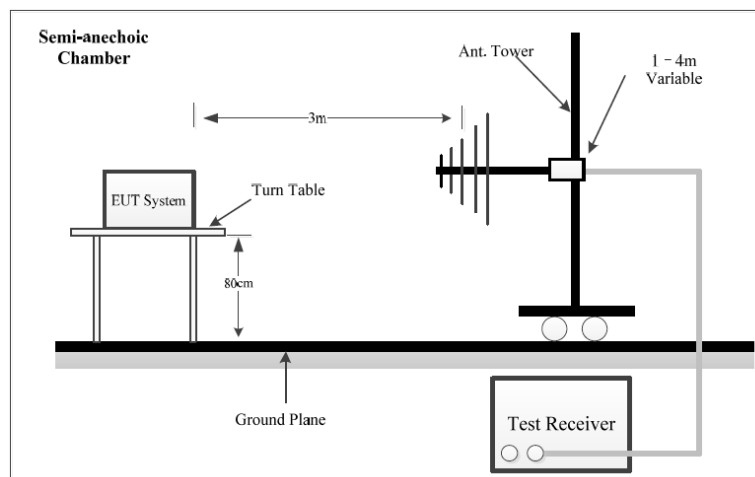
FCC§15.109

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

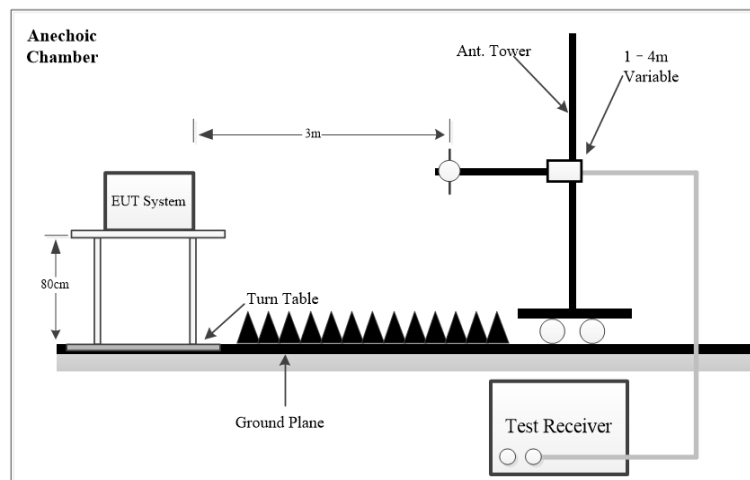
Frequency of emission (MHz)	Field strength (microvolts/meter)
30–88	100
88–216	150
216–960	200
Above 960	500

Test System Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated above 1 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK	PK
	/	/	120 kHz	QP	QP
Above 1 GHz	1 MHz	3 MHz	/	PK	PK
	1 MHz	10 Hz	/	AV	PK

Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Result & Margin Calculation

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

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

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

Margin (dB) = Limit (dBμV/m) – Result (dBμV/m)

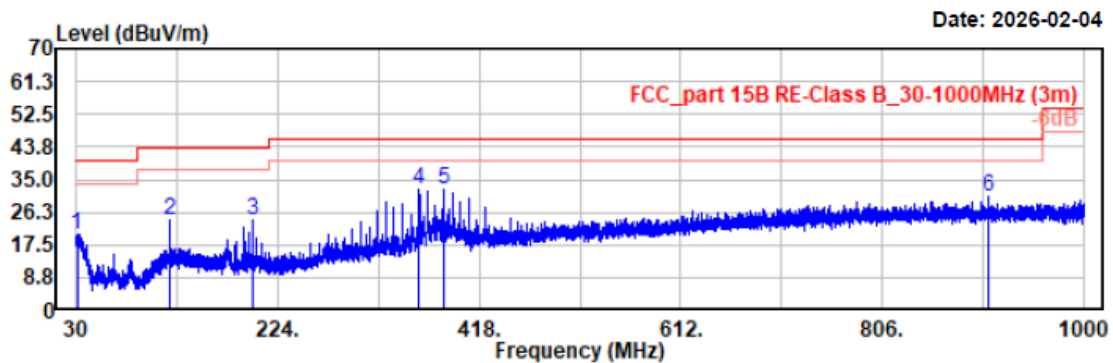
Test Data

Please refer to below plots:

1) 30MHz-1GHz:

Project No.: 2507A11393E-EM
Test Mode: Mode 1(400-480MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

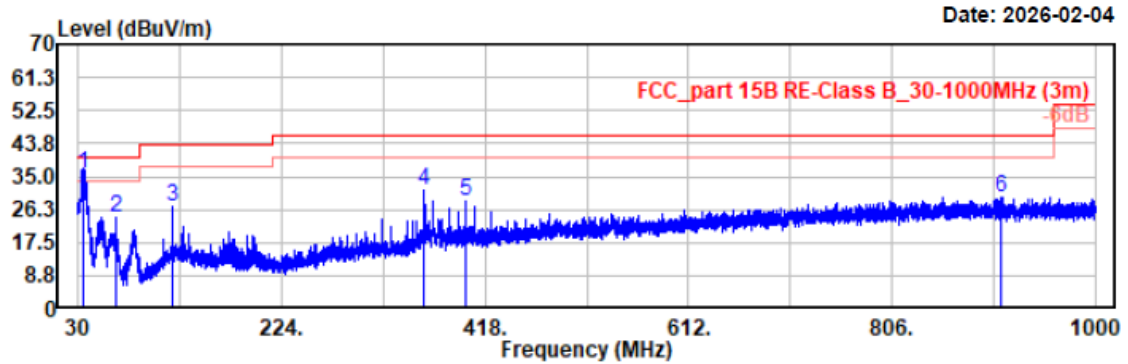


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.58	26.25	-5.77	20.48	40.00	19.52	Horizontal	Peak
119.92	34.67	-10.40	24.27	43.50	19.23	Horizontal	Peak
199.94	36.04	-11.74	24.30	43.50	19.20	Horizontal	Peak
359.99	40.27	-7.71	32.56	46.00	13.44	Horizontal	Peak
383.95	39.04	-6.92	32.12	46.00	13.88	Horizontal	Peak
908.04	27.72	2.66	30.38	46.00	15.62	Horizontal	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 1(400-480MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

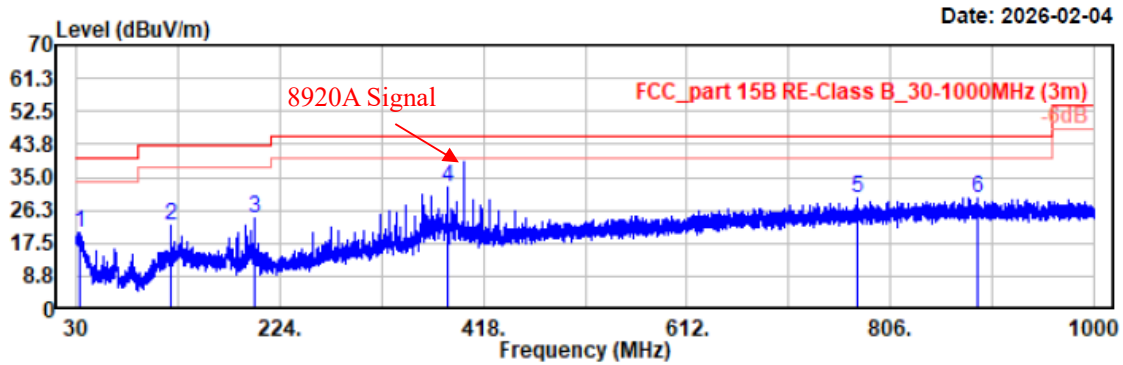


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
35.24	43.94	-8.24	35.70	40.00	4.30	Vertical	QP
66.67	41.49	-17.20	24.29	40.00	15.71	Vertical	Peak
119.92	37.46	-10.40	27.06	43.50	16.44	Vertical	Peak
359.99	39.19	-7.71	31.48	46.00	14.52	Vertical	Peak
399.96	34.90	-6.39	28.51	46.00	17.49	Vertical	Peak
909.60	26.67	2.69	29.36	46.00	16.64	Vertical	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(400.0125MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

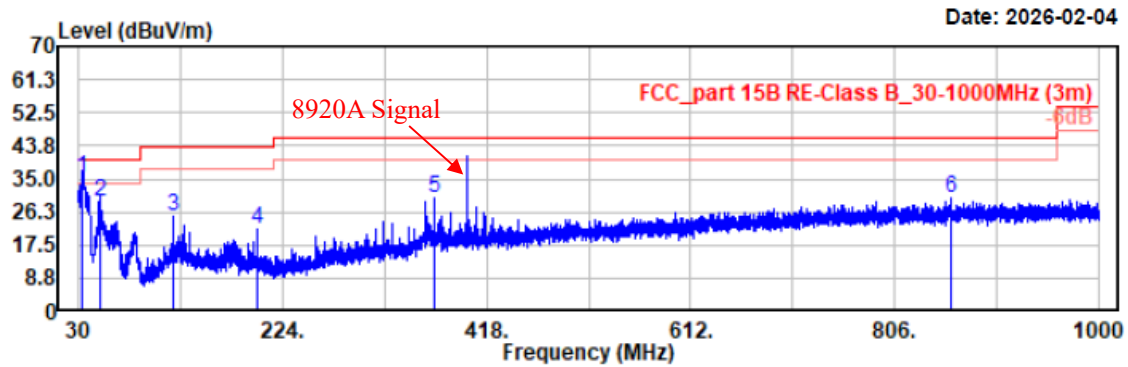


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.30	27.62	-7.14	20.48	40.00	19.52	Horizontal	Peak
119.92	32.65	-10.40	22.25	43.50	21.25	Horizontal	Peak
199.94	35.72	-11.74	23.98	43.50	19.52	Horizontal	Peak
383.95	39.04	-6.92	32.12	46.00	13.88	Horizontal	Peak
774.67	28.49	0.97	29.46	46.00	16.54	Horizontal	Peak
890.00	26.97	2.52	29.49	46.00	16.51	Horizontal	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(400.0125MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

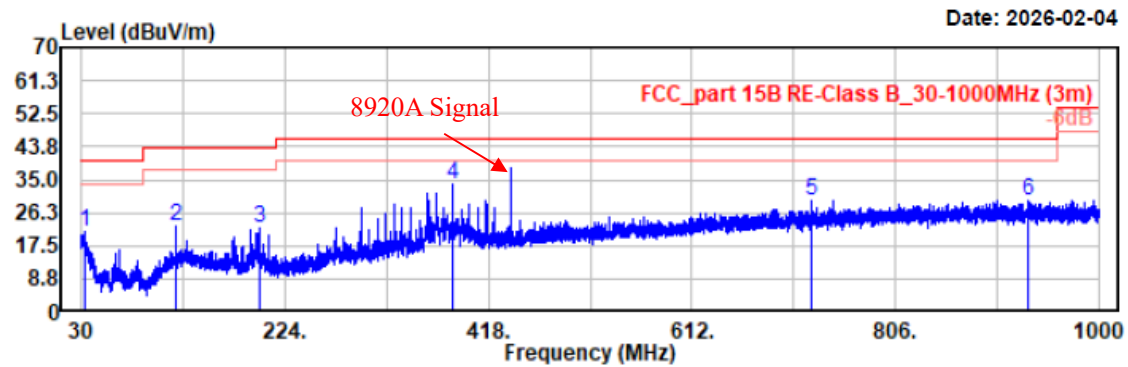


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.78	42.79	-7.41	35.38	40.00	4.62	Vertical	QP
50.37	46.27	-17.42	28.85	40.00	11.15	Vertical	QP
120.02	35.32	-10.39	24.93	43.50	18.57	Vertical	Peak
199.94	33.50	-11.74	21.76	43.50	21.74	Vertical	Peak
367.95	37.51	-7.40	30.11	46.00	15.89	Vertical	Peak
859.25	27.81	2.08	29.89	46.00	16.11	Vertical	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(440MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

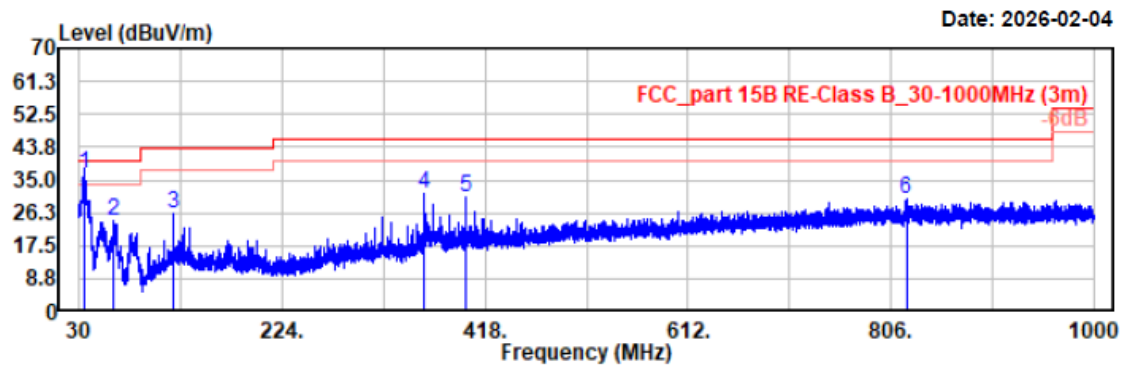


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.20	28.30	-7.09	21.21	40.00	18.79	Horizontal	Peak
119.92	33.01	-10.40	22.61	43.50	20.89	Horizontal	Peak
199.94	34.11	-11.74	22.37	43.50	21.13	Horizontal	Peak
383.95	40.69	-6.92	33.77	46.00	12.23	Horizontal	Peak
725.20	29.54	0.04	29.58	46.00	16.42	Horizontal	Peak
931.91	26.69	2.98	29.67	46.00	16.33	Horizontal	Peak

Project No.: 2507A11393E-EM
 Test Mode: Mode 2(440MHz)
 EUT Model: KG-XS30G
 Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
 Tested by: Apollo Luo
 Power Source: DC 13.8V from DC source

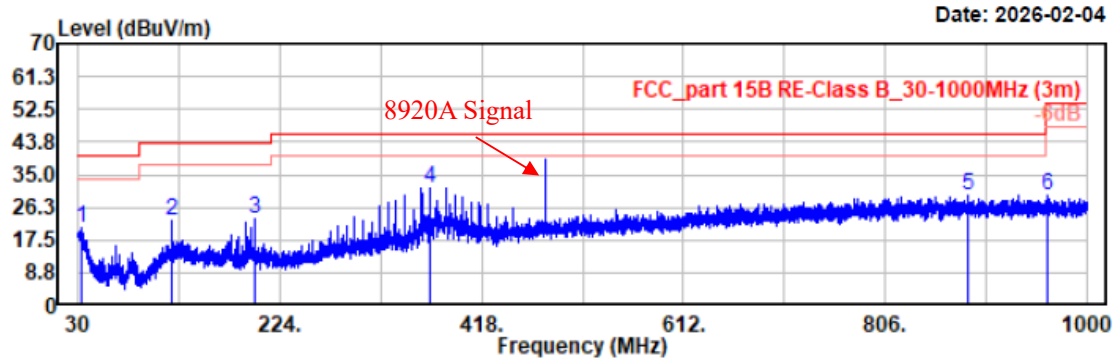


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
35.34	44.77	-8.30	36.47	40.00	3.53	Vertical	QP
63.27	41.59	-17.37	24.22	40.00	15.78	Vertical	Peak
119.92	36.52	-10.40	26.12	43.50	17.38	Vertical	Peak
359.99	38.88	-7.71	31.17	46.00	14.83	Vertical	Peak
399.96	36.80	-6.39	30.41	46.00	15.59	Vertical	Peak
820.65	28.29	1.66	29.95	46.00	16.05	Vertical	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(479.9875MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

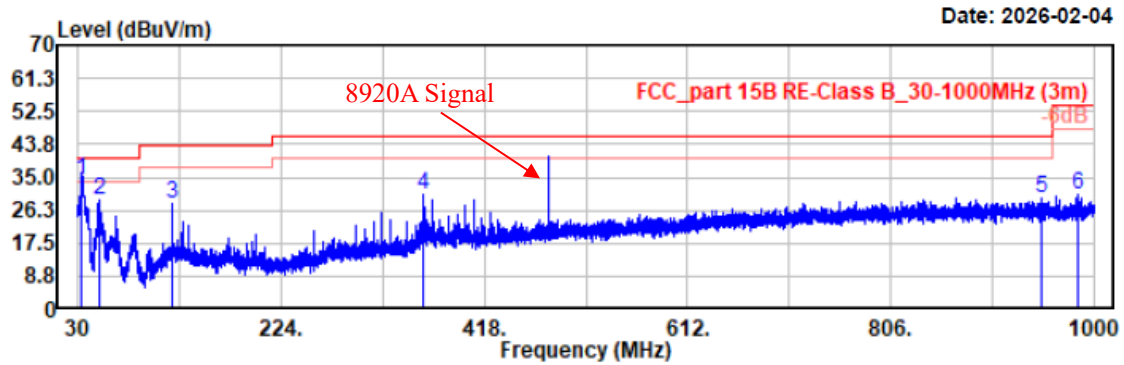


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.40	27.90	-7.20	20.70	40.00	19.30	Horizontal	Peak
119.92	33.25	-10.40	22.85	43.50	20.65	Horizontal	Peak
199.94	34.73	-11.74	22.99	43.50	20.51	Horizontal	Peak
367.95	38.94	-7.40	31.54	46.00	14.46	Horizontal	Peak
885.54	27.20	2.41	29.61	46.00	16.39	Horizontal	Peak
962.95	26.15	3.49	29.64	54.00	24.36	Horizontal	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(479.9875MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source



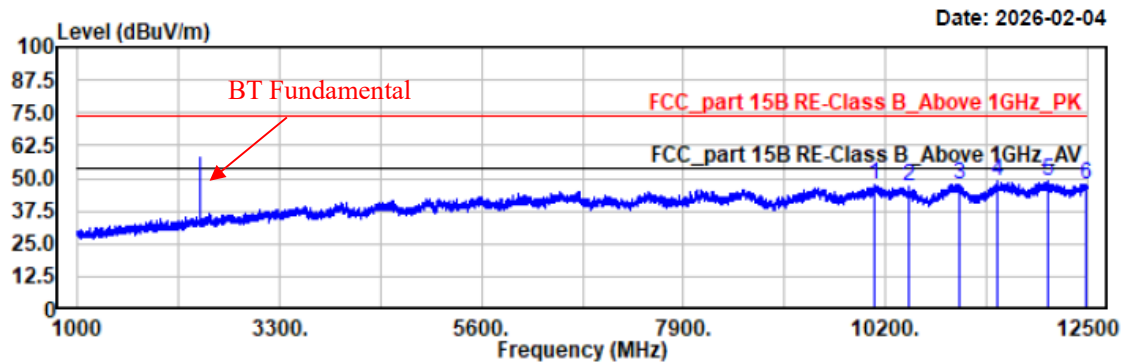
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.78	41.45	-7.41	34.04	40.00	5.96	Vertical	QP
50.47	46.54	-17.44	29.10	40.00	10.90	Vertical	Peak
119.92	38.49	-10.40	28.09	43.50	15.41	Vertical	Peak
359.99	38.35	-7.71	30.64	46.00	15.36	Vertical	Peak
950.43	26.38	3.20	29.58	46.00	16.42	Vertical	Peak
984.77	26.54	3.81	30.35	54.00	23.65	Vertical	Peak

2) Above 1GHz

Project No.: 2507A11393E-EM
Test Mode: Mode 1(400-480MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

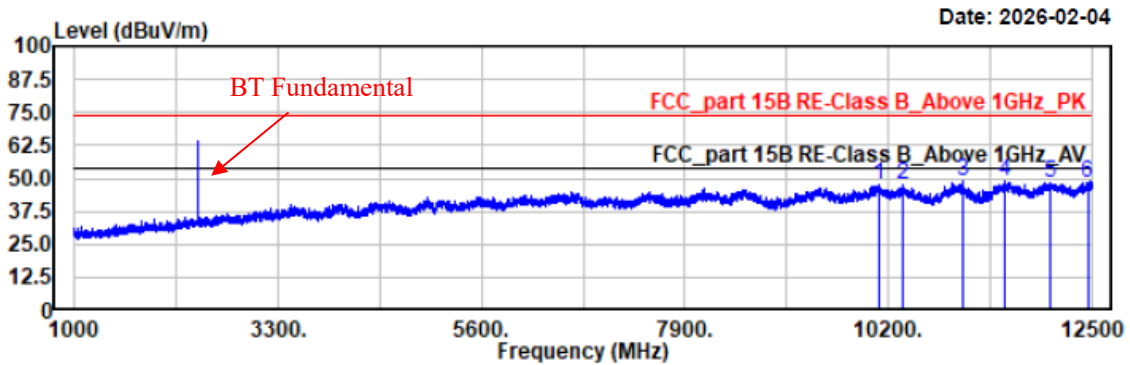


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
10068.90	46.06	1.54	47.60	74.00	26.40	horizontal	Peak
10467.95	44.89	1.67	46.56	74.00	27.44	horizontal	Peak
11034.90	45.53	2.23	47.76	74.00	26.24	horizontal	Peak
11476.50	46.17	3.09	49.26	74.00	24.74	horizontal	Peak
12045.75	45.52	3.20	48.72	74.00	25.28	horizontal	Peak
12487.35	44.49	3.31	47.80	74.00	26.20	horizontal	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 1(400-480MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

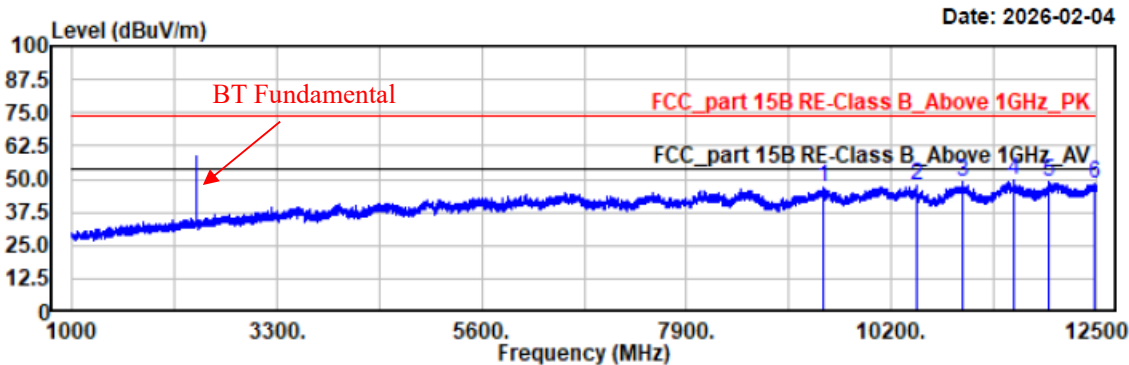


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
10090.75	46.21	1.54	47.75	74.00	26.25	vertical	Peak
10355.25	45.70	1.62	47.32	74.00	26.68	vertical	Peak
11049.85	46.37	2.26	48.63	74.00	25.37	vertical	Peak
11523.65	45.69	3.16	48.85	74.00	25.15	vertical	Peak
12038.85	45.17	3.21	48.38	74.00	25.62	vertical	Peak
12452.85	45.30	3.28	48.58	74.00	25.42	vertical	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(400.0125MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

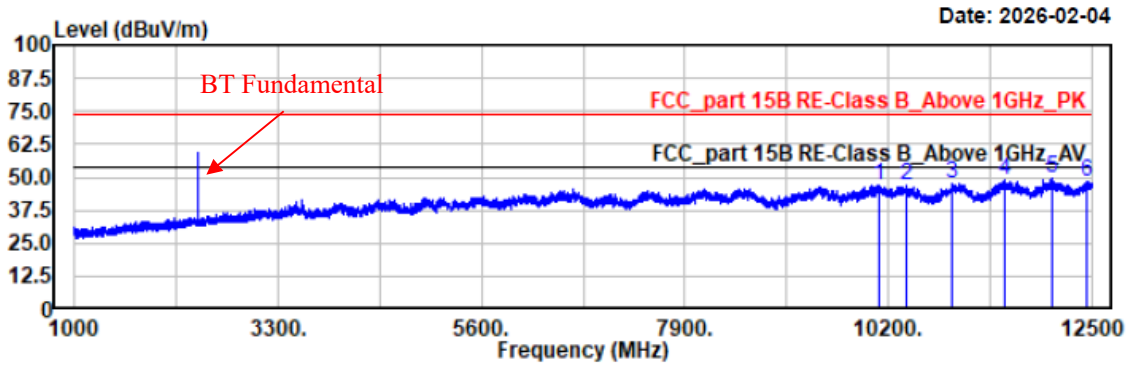


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
9432.95	46.45	0.59	47.04	74.00	26.96	horizontal	Peak
10480.60	45.74	1.67	47.41	74.00	26.59	horizontal	Peak
11000.40	46.81	2.16	48.97	74.00	25.03	horizontal	Peak
11569.65	46.28	3.20	49.48	74.00	24.52	horizontal	Peak
11976.75	45.65	3.21	48.86	74.00	25.14	horizontal	Peak
12482.75	45.07	3.31	48.38	74.00	25.62	horizontal	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(400.0125MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

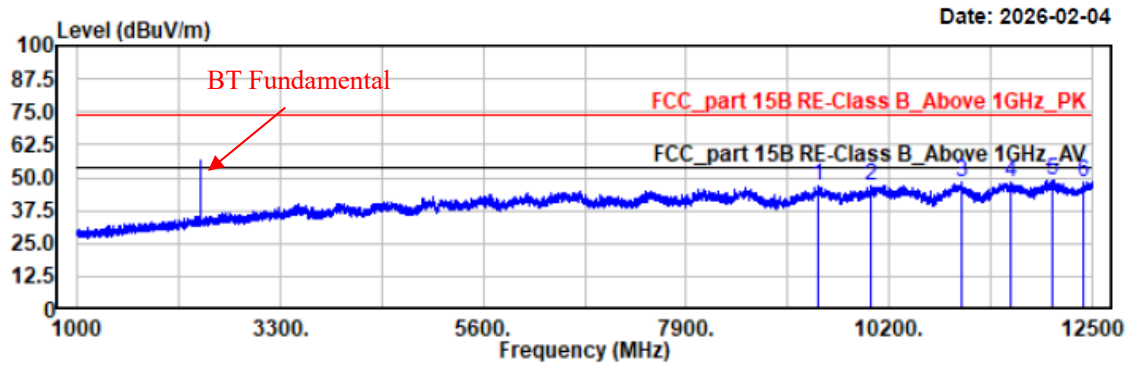


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
10096.50	45.59	1.54	47.13	74.00	26.87	vertical	Peak
10404.70	45.23	1.67	46.90	74.00	27.10	vertical	Peak
10922.20	45.51	2.02	47.53	74.00	26.47	vertical	Peak
11519.05	45.96	3.16	49.12	74.00	24.88	vertical	Peak
12049.20	46.15	3.20	49.35	74.00	24.65	vertical	Peak
12436.75	44.76	3.27	48.03	74.00	25.97	vertical	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(440MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

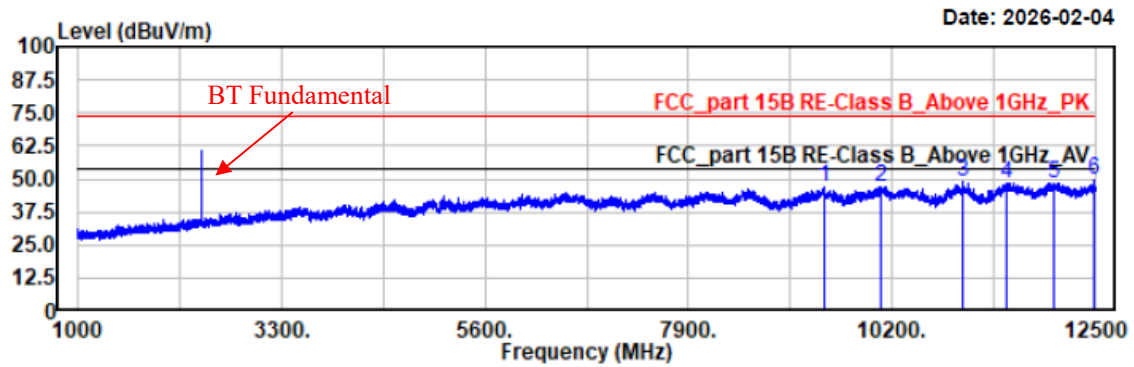


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
9391.55	46.52	0.45	46.97	74.00	27.03	horizontal	Peak
9997.60	45.32	1.54	46.86	74.00	27.14	horizontal	Peak
11015.35	46.14	2.19	48.33	74.00	25.67	horizontal	Peak
11568.50	45.14	3.20	48.34	74.00	25.66	horizontal	Peak
12053.80	45.92	3.20	49.12	74.00	24.88	horizontal	Peak
12404.55	45.03	3.24	48.27	74.00	25.73	horizontal	Peak

Project No.: 2507A11393E-EM
 Test Mode: Mode 2(440MHz)
 EUT Model: KG-XS30G
 Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
 Tested by: Apollo Luo
 Power Source: DC 13.8V from DC source

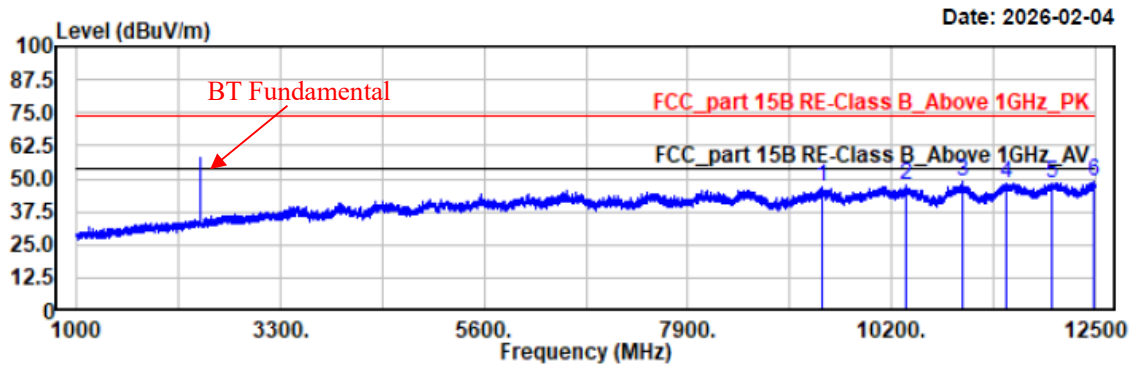


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
9431.80	46.06	0.59	46.65	74.00	27.35	vertical	Peak
10071.20	45.52	1.54	47.06	74.00	26.94	vertical	Peak
11010.75	46.49	2.18	48.67	74.00	25.33	vertical	Peak
11493.75	45.25	3.13	48.38	74.00	25.62	vertical	Peak
12030.80	45.32	3.21	48.53	74.00	25.47	vertical	Peak
12485.05	46.17	3.32	49.49	74.00	24.51	vertical	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(479.9875MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source

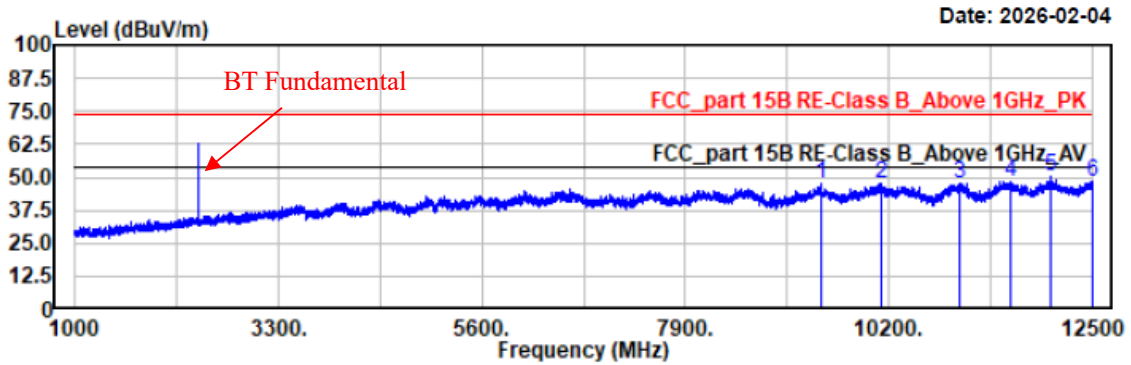


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
9420.30	46.20	0.56	46.76	74.00	27.24	horizontal	Peak
10372.50	46.14	1.64	47.78	74.00	26.22	horizontal	Peak
11007.30	46.59	2.17	48.76	74.00	25.24	horizontal	Peak
11498.35	45.44	3.14	48.58	74.00	25.42	horizontal	Peak
12018.15	45.26	3.20	48.46	74.00	25.54	horizontal	Peak
12488.50	45.56	3.31	48.87	74.00	25.13	horizontal	Peak

Project No.: 2507A11393E-EM
Test Mode: Mode 2(479.9875MHz)
EUT Model: KG-XS30G
Test distance: 3m

Temp/Humi/ATM: 22.7°C/51%/100.1kPa
Tested by: Apollo Luo
Power Source: DC 13.8V from DC source



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
9428.35	46.81	0.58	47.39	74.00	26.61	vertical	Peak
10110.30	45.98	1.55	47.53	74.00	26.47	vertical	Peak
11006.15	45.48	2.17	47.65	74.00	26.35	vertical	Peak
11568.50	45.23	3.20	48.43	74.00	25.57	vertical	Peak
12038.85	47.28	3.21	50.49	74.00	23.51	vertical	Peak
12494.25	45.20	3.31	48.51	74.00	25.49	vertical	Peak

FCC §15.121(b) – SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS

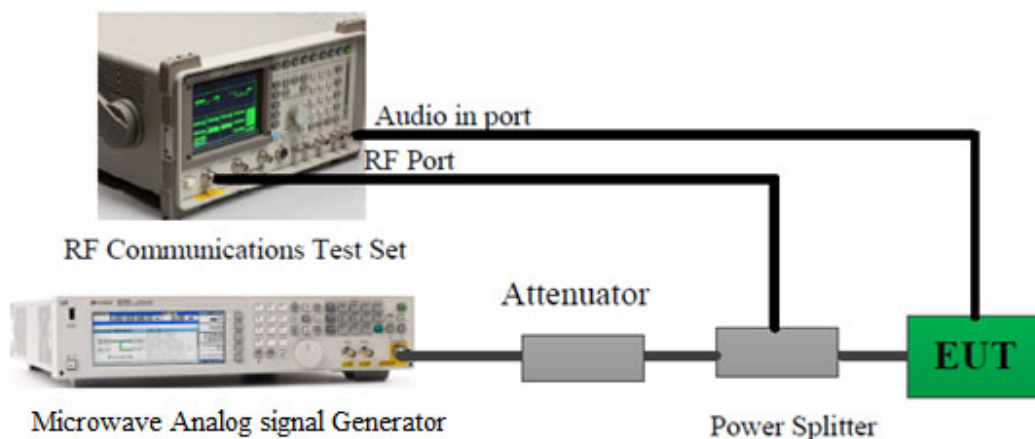
Applicable Standard

FCC §15.121(b).

(b) Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

Test Procedure

1. Connected the EUT as the below block diagram;



2. Apply a signal to the EUT antenna port at lowest, middle, highest channel frequencies of the operating band;
3. Adjust the audio output level of the EUT to its rated value with the distortion less than 10%;
4. Adjust the 8920 output power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB; These output level of the 8920 at each channel frequency is the sensitivity of the EUT;
5. Select the lowest or worst case sensitivity level for all of the bands as the reference sensitivity;
6. Adjust the Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5 and its frequency to the frequency point in the Cellular Band;
7. Set the EUT squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level;
8. Set the EUT in a scanning mode and allow it to scan through its complete receiving range;
9. If the EUT un-squelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38 dB;
10. Repeat above procedure at the frequencies 824, 836, 849 MHz for the mobile band, and 869, 881.5 and 894 MHz for the Cellular Base Band.

Test Data

Test Mode:	Scanning	Test Engineer:	Lucas Lin
Test Date:	2026-01-26	Test Result:	Pass

Environment Conditions:

Temperature: (°C)	22.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.1
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Scanning Frequency Range (MHz)	Test Frequency (MHz)	Measurement Result (Worst Case) (dB)	Limit (dB)
400-480	824, 836, 849, 869, 881.5, 894	49	>38

FCC §15.111 – ANTENNA POWER CONDUCTION LIMITS FOR RECEIVERS

Applicable Standard

FCC §15.111.

(a) In addition to the radiated emission limits, receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of § 15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna, provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in § 15.33 shall not exceed 2.0 nanowatts.

Test Procedure

EUT antenna port connected to a spectrum analyzer, the traces were recorded as shown on the data pages.

Test Data

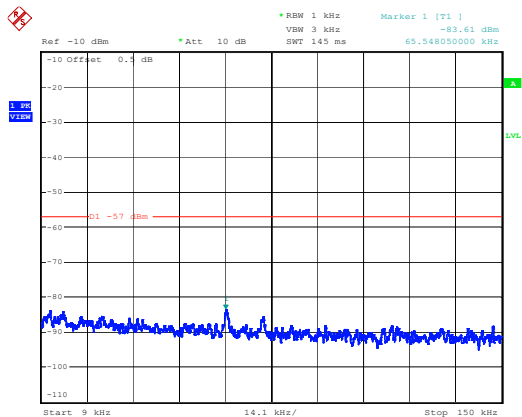
Test Mode:	Scanning, Receiving	Test Engineer:	Lucas Lin
Test Date:	2026-01-26	Test Result:	Pass

Environment Conditions:					
Temperature: (°C)	22.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.1

Test Mode: Scanning

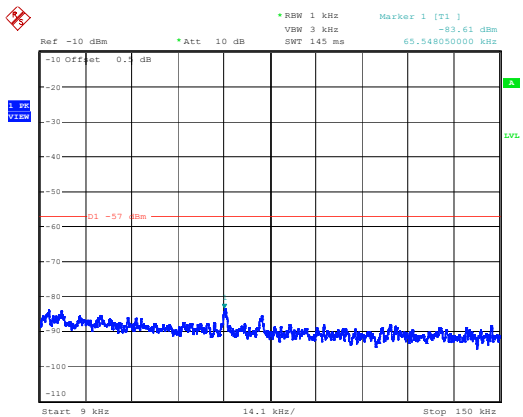
Scanning(400-480MHz)

9kHz-150kHz



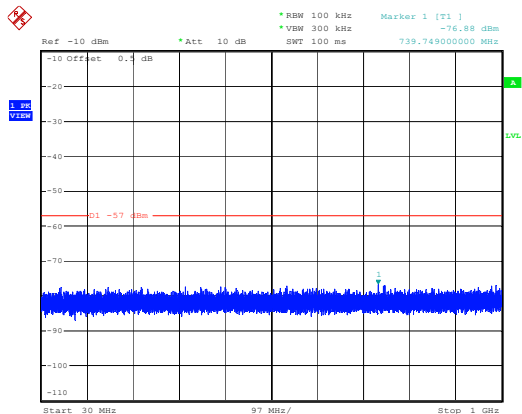
Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:48:23

150kHz-30MHz



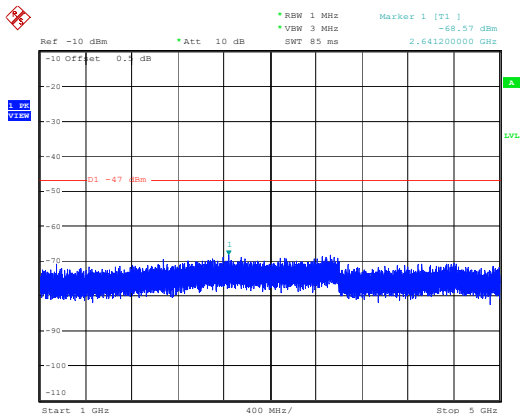
Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:48:23

30MHz-1GHz



Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:53:25

1GHz-5GHz

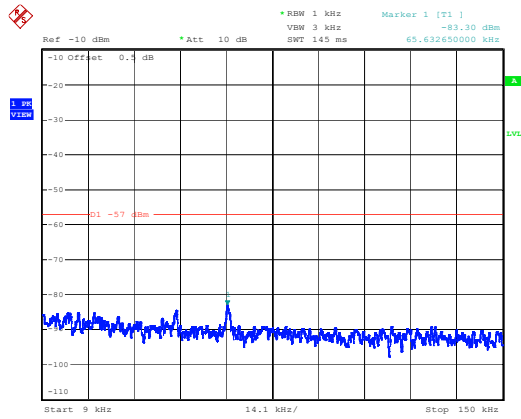


Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:54:13

Test Mode: Receiving

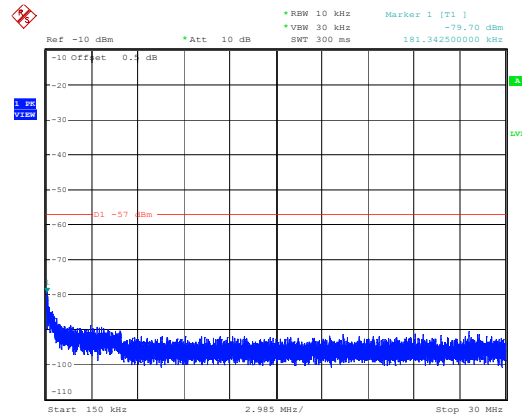
Receiving(400.0125MHz)

9kHz-150kHz



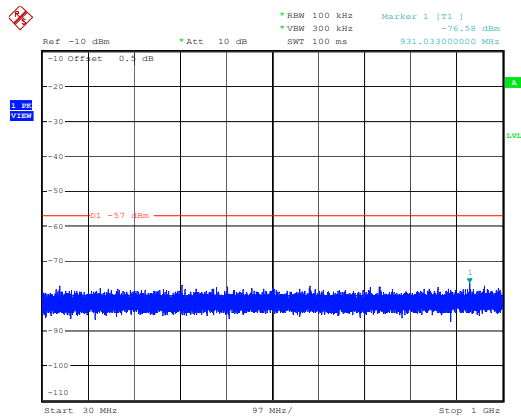
Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:46:23

150kHz-30MHz



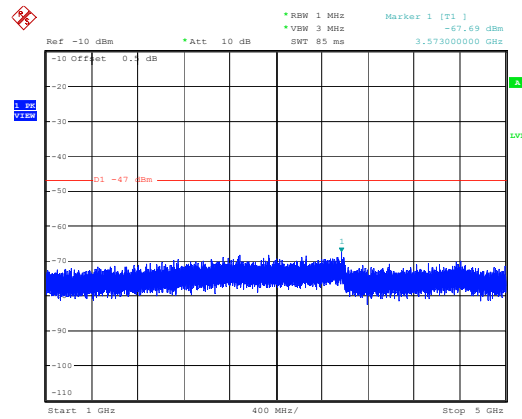
Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:51:12

30MHz-1GHz



Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:51:43

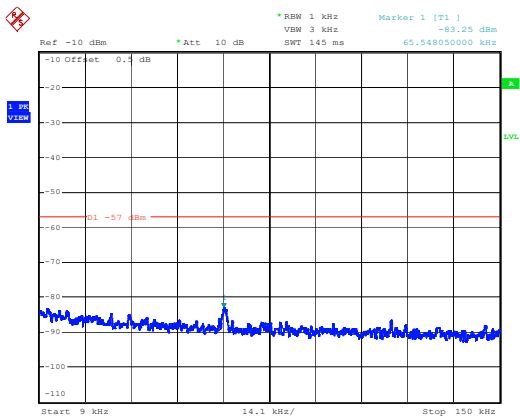
1GHz-5GHz



Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:55:31

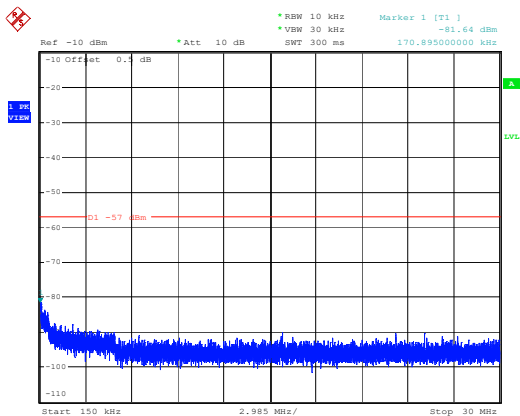
Receiving(440MHz)

9kHz-150kHz



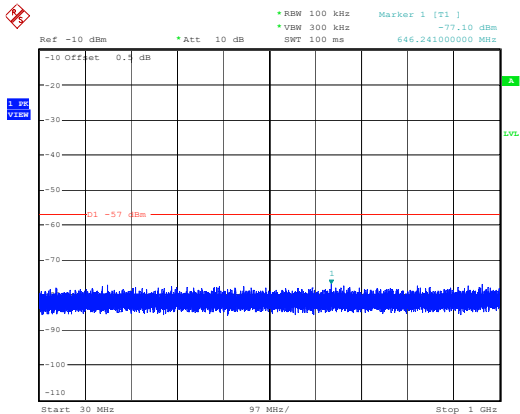
Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:47:32

150kHz-30MHz



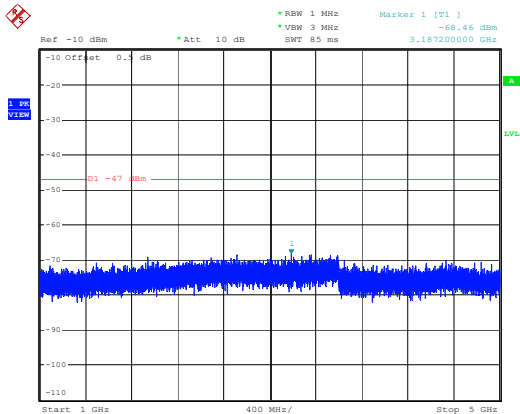
Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:50:44

30MHz-1GHz



Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:52:34

1GHz-5GHz

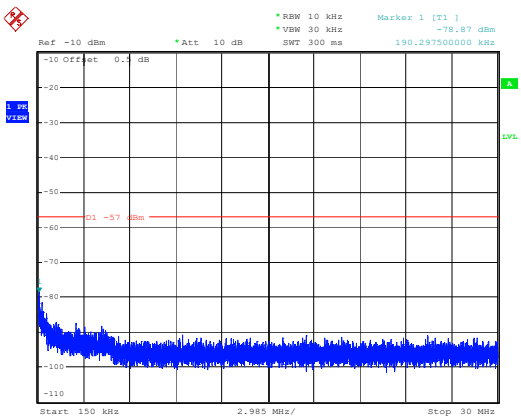
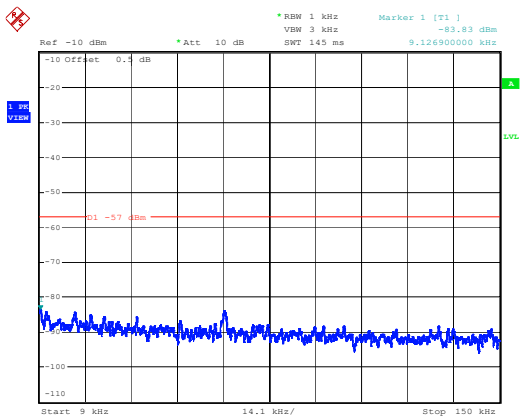


Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:55:02

Receiving(479.9875MHz)

9kHz-150kHz

150kHz-30MHz

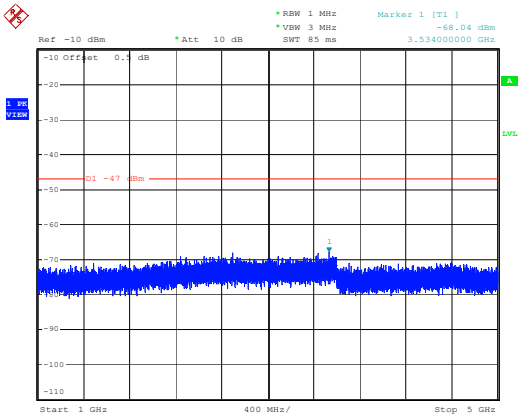
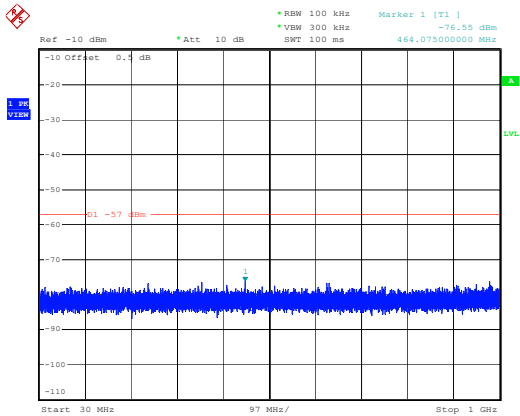


Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:47:55

Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:50:10

30MHz-1GHz

1GHz-5GHz



Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:53:00

Project No.:2507A11393E-RF Tester:Lucas Lin
Date: 26.JAN.2026 20:54:35

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2507A11393E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and
2507A11393E-RF-INP EUT INTERNAL PHOTOGRAPHS

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507A11393E-RF-TSP TEST SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95 % confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

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