



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15B

TEST REPORT

For

Midland Radio Corporation

5900 Parretta Drive, Kansas City, Missouri, 64120-2134, United States

FCC ID: MMAMXT575

Report Type: Original Report	Product Type: GMRS MOBILE RADIO
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Report Number:	<u>RXM201206050-00C</u>
Report Date:	<u>2021-02-26</u>
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TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY	3
TEST FACILITY	3
SYSTEM TEST CONFIGURATION.....	4
JUSTIFICATION	4
EUT EXERCISE SOFTWARE	4
SPECIAL ACCESSORIES	4
EQUIPMENT MODIFICATIONS	4
SUPPORT EQUIPMENT LIST AND DETAILS	4
BLOCK DIAGRAM OF RADIATED TEST SETUP.....	5
SUMMARY OF TEST RESULTS	6
FCC §15.109 - RADIATED EMISSIONS	7
APPLICABLE STANDARD	7
MEASUREMENT UNCERTAINTY	7
EUT SETUP	7
EMI TEST RECEIVER SETUP.....	8
TEST PROCEDURE	8
TEST EQUIPMENT LIST AND DETAILS.....	9
CORRECTED AMPLITUDE & MARGIN CALCULATION	9
TEST DATA	10
FCC §15.111 - ANTENNA CONDUCTED POWER FOR RECEIVERS	20
APPLICABLE STANDARD	20
EUT SETUP	20
TEST PROCEDURE	20
TEST EQUIPMENT LIST AND DETAILS.....	20
TEST DATA	20
FCC §15.121(B) - SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS.....	23
APPLICABLE STANDARD	23
EUT SETUP	23
TEST PROCEDURE	23
TEST EQUIPMENT LIST AND DETAILS.....	24
TEST DATA	24

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Midland Radio Corporation
Test Model	MXT-575
Product	GMRS MOBILE RADIO
Rate Voltage	DC 13.8 V
*Highest Operation Frequency	467.725 MHz

Note: The Highest Operating Frequency was provided by the applicant.

All measurement and test data in this report was gathered from production sample serial number: RXM201206050-1. (Assigned by the BACL. The EUT supplied by the applicant was received on 2020-12-06)

Objective

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

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15, Class B device.

Related Submittal(s)/Grant(s)

FCC Part 95 TNB Submittal with FCC ID: MMAMXT575.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

Test mode 1: Normal Working

Test mode 2: Scanning Receiving mode

Test mode 3: Receive at low channel(136MHz)

Test mode 4: Receive at Middle channel(155MHz)

Test mode 5: Receive at high channel(174MHz)

EUT Exercise Software

No exercise software was used to test.

Special Accessories

No special accessory was used.

Equipment Modifications

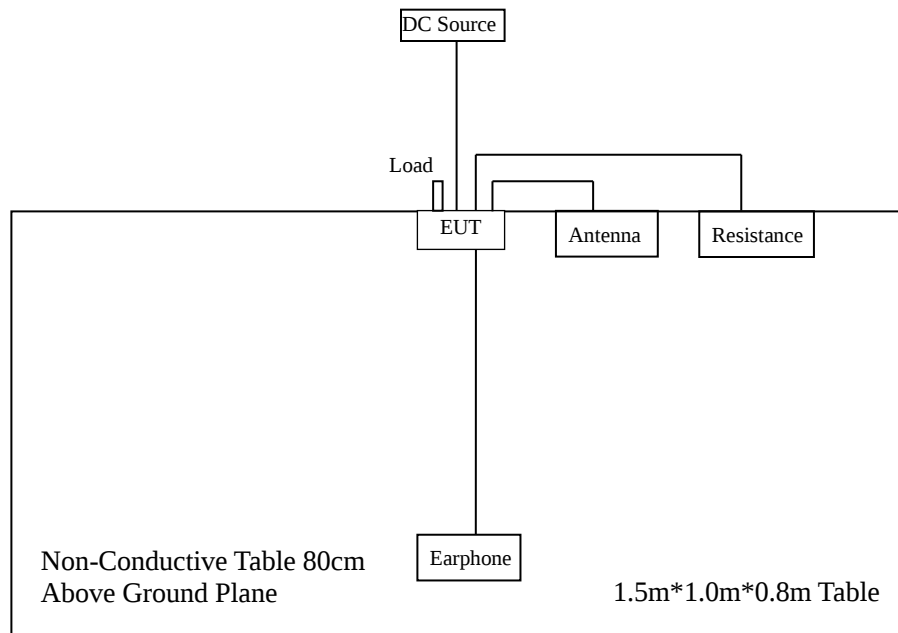
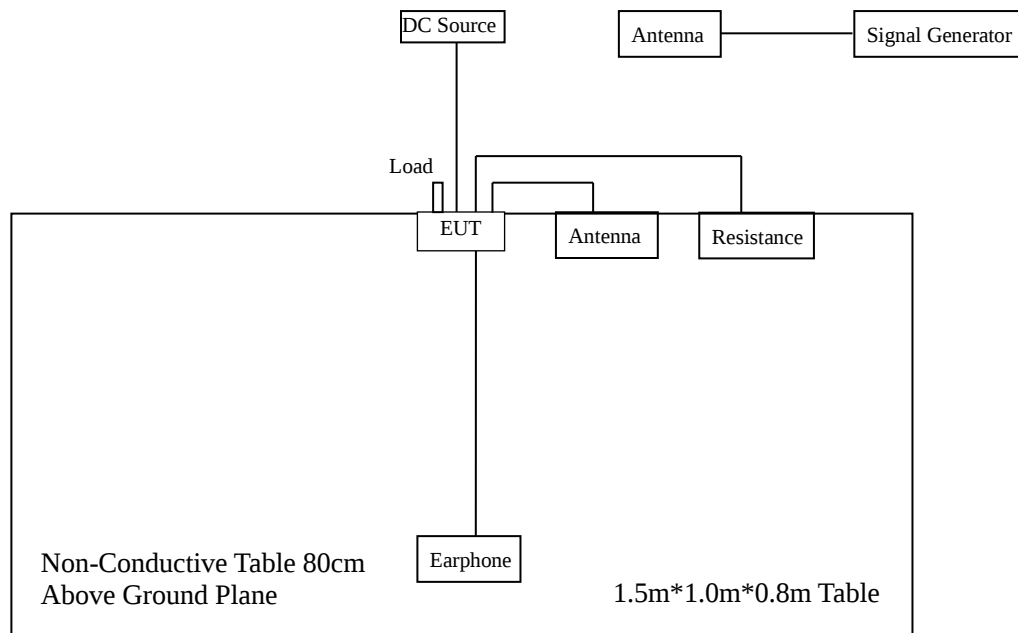
No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	Load	/	/
/	Resistance	/	/
BOLD	Earphone	/	/
BEST	DC Power Supply	PS-1502D+	/
Rohde & Schwarz	SMB 100A Signal Generator	SMB100A	110390

External I/O Cable

Cable Description	Length (m)	From/Port	To
Power Cable	1.0	EUT	DC source

Block Diagram of Radiated Test Setup*Test mode 1:**Test mode 2 to Test mode5:*

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Not Applicable (See Note)
§15.109	Radiated Emissions	Compliant
§15.111	Antenna Conducted Power for Receivers	Compliant
§15.121(b)	Scanning Receivers and Frequency Converters Used With Scanning Receivers	Compliant

Note: The EUT was used in a vehicle.

FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

FCC §15.109

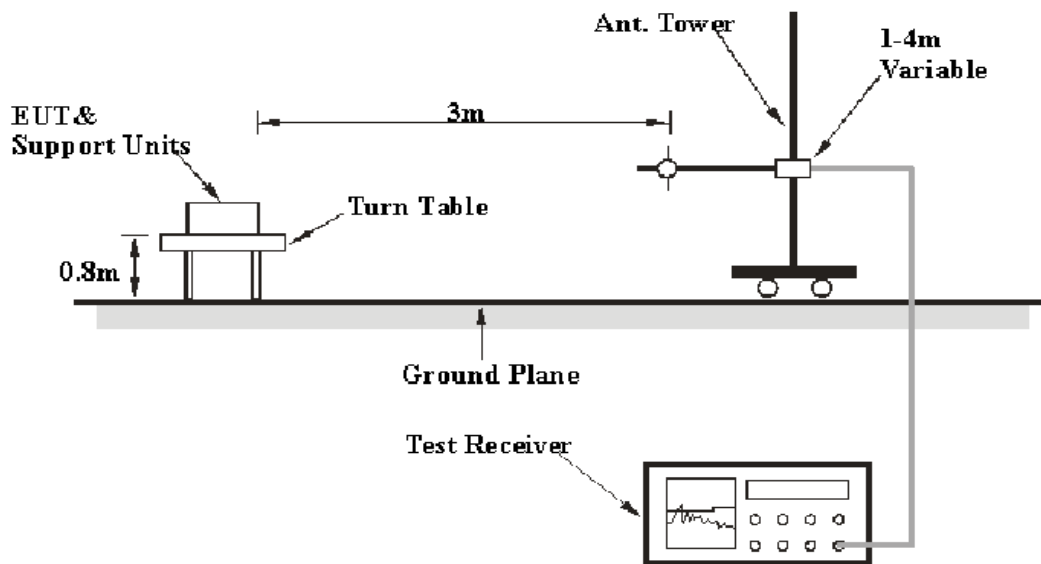
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average) and system repeatability.

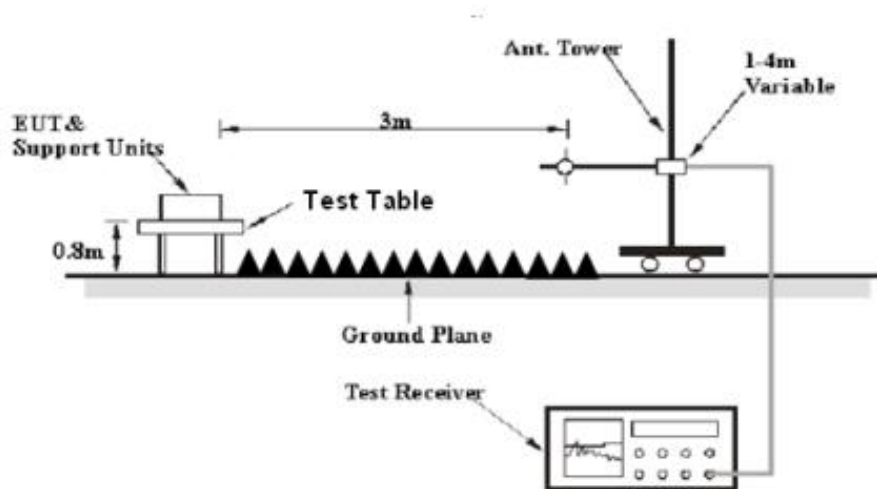
Item		Measurement Uncertainty	U_{cispr}
Radiated Emission	30MHz~1GHz	6.11dB	6.3 dB
	1GHz~6GHz	4.45dB	5.2 dB

EUT Setup

Below 1GHz:



Above 1GHz:



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 from 30 MHz to 2 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	Peak
	1MHz	1 Hz	1MHz	AVG

Test Procedure

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

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sonoma Instrument	Amplifier	310N	185700	2020-08-14	2021-08-13
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2020-11-27	2021-11-26
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2020-01-07	2023-01-06
Champrotek	Chamber1#	3m-SAC 966	N/A	2019-05-08	2022-05-07
Albatross	Chamber 2#	3m-SAC 966	NA	2019-05-08	2022-05-07
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
ETS	Horn Antenna	3115	9311-4159	2020-07-15	2023-07-14
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2020-04-01	2021-03-31
A.H.Systems,inc	Amplifier	PAM-0118P	512	2020-02-20	2021-02-19
MICRO-COAX	Coaxial Cable	Cable-8	008	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-4	004	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-5	005	2020-08-15	2021-08-14

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

Corrected Amplitude & Margin Calculation

The Corrected Amplitude 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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

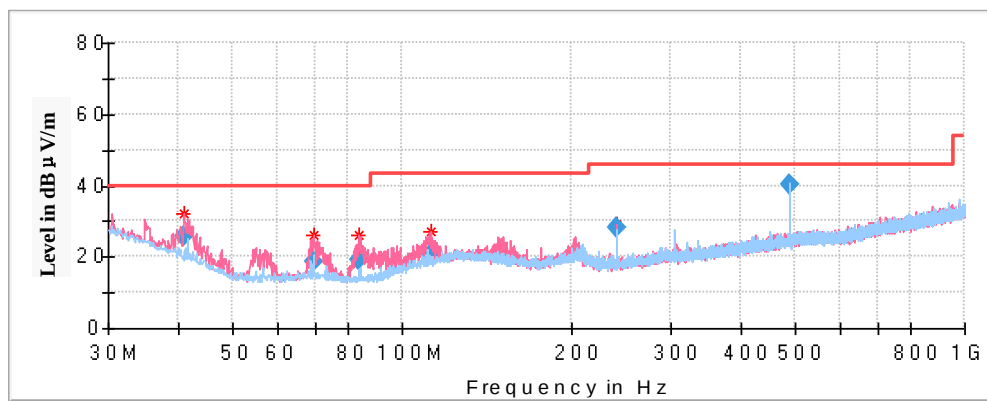
$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data**Environmental Conditions**

Temperature:	22.9 °C~23.5 °C
Relative Humidity:	51 %~53 %
ATM Pressure:	101.5 kPa~101.5 kPa

The testing was performed by Gerry Xing from 2021-01-13 to 2021-02-22.

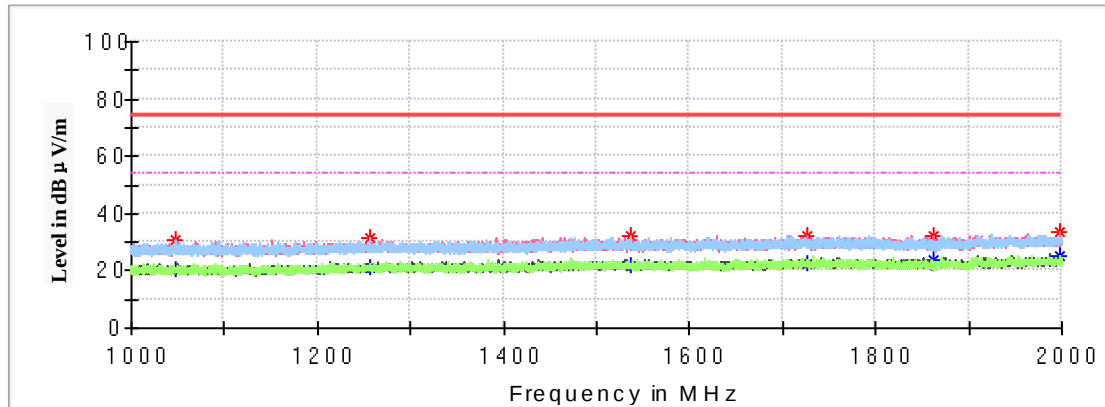
Test mode 1:

1) Below 1 GHz:

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.924900	25.60	40.00	14.40	100.0	V	191.0	-12.4
69.646250	18.73	40.00	21.27	100.0	V	317.0	-17.1
83.606900	19.07	40.00	20.93	100.0	V	227.0	-17.9
112.216300	20.70	43.50	22.80	100.0	V	136.0	-13.1
240.014900	28.05	46.00	17.95	100.0	V	124.0	-13.5
488.121800	40.40	46.00	5.60	100.0	H	162.0	-6.3

Above 1 GHz:

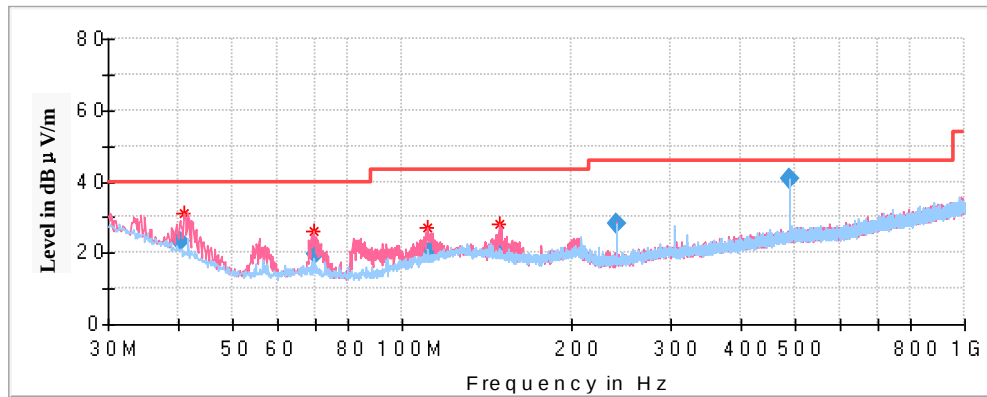
Full Spectrum



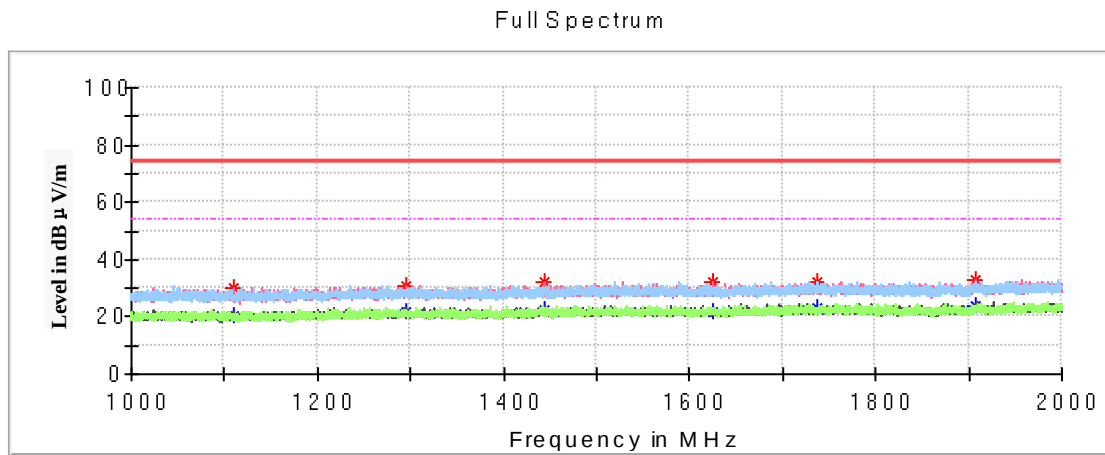
Frequency (MHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1047.900000	30.81	---	74.00	43.19	100.0	V	297.0	-18.8
1047.900000	---	20.17	54.00	33.83	100.0	V	297.0	-18.8
1257.100000	---	20.91	54.00	33.09	200.0	H	324.0	-17.7
1257.100000	31.72	---	74.00	42.28	200.0	H	324.0	-17.7
1537.100000	32.16	---	74.00	41.84	200.0	V	231.0	-16.2
1537.100000	---	21.34	54.00	32.66	200.0	V	231.0	-16.2
1726.500000	---	22.34	54.00	31.66	100.0	V	71.0	-15.5
1726.500000	32.14	---	74.00	41.86	100.0	V	71.0	-15.5
1861.200000	32.39	---	74.00	41.61	100.0	V	135.0	-15.0
1861.200000	---	23.80	54.00	30.20	100.0	V	135.0	-15.0
1998.400000	---	25.27	54.00	28.73	100.0	H	331.0	-14.5
1998.400000	33.48	---	74.00	40.52	100.0	H	331.0	-14.5

Test mode 2:

2)30MHz ~ 1GHz



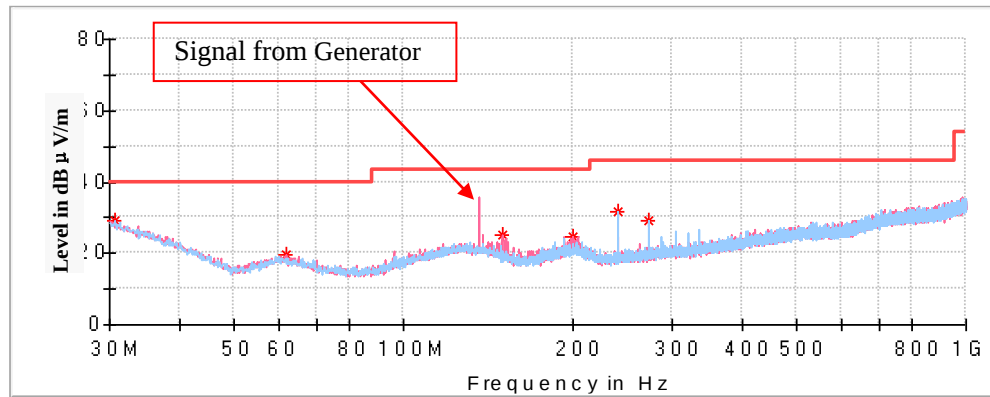
Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.372850	23.23	40.00	16.77	100.0	V	232.0	-11.5
70.370800	19.63	40.00	20.37	100.0	V	232.0	-17.1
112.158150	20.42	43.50	23.08	100.0	V	43.0	-13.1
148.863700	21.08	43.50	22.42	100.0	V	278.0	-12.3
240.002900	28.02	46.00	17.98	100.0	V	117.0	-13.5
488.109200	40.78	46.00	5.22	100.0	H	161.0	-6.3

Above 1 GHz:

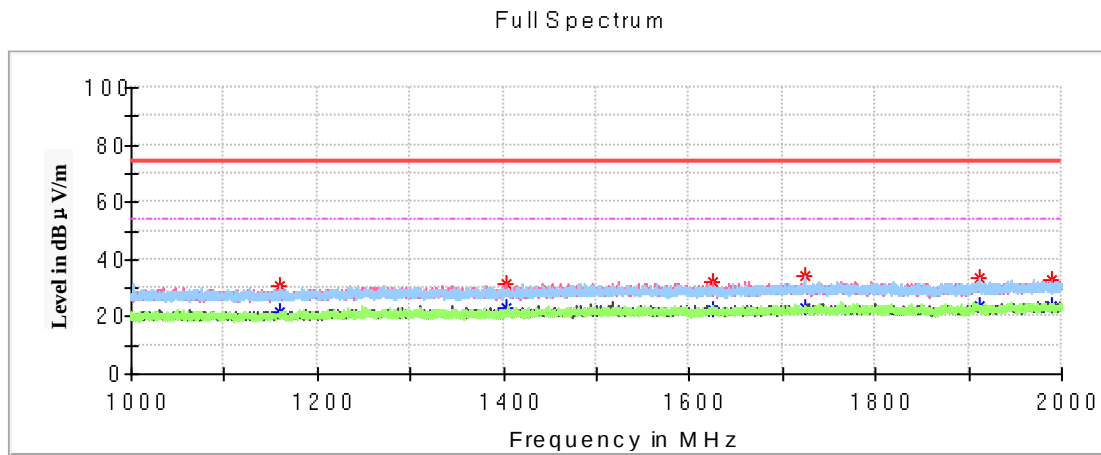
Frequency (MHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1109.300000	30.30	---	74.00	43.70	200.0	V	40.0	-18.5
1109.300000	---	20.04	54.00	33.96	200.0	V	40.0	-18.5
1295.600000	---	22.00	54.00	32.00	100.0	V	72.0	-17.5
1295.600000	30.92	---	74.00	43.08	100.0	V	72.0	-17.5
1442.900000	32.14	---	74.00	41.86	200.0	V	159.0	-16.7
1442.900000	---	22.15	54.00	31.85	200.0	V	159.0	-16.7
1625.900000	---	21.76	54.00	32.24	100.0	H	358.0	-15.9
1625.900000	31.88	---	74.00	42.12	100.0	H	358.0	-15.9
1738.000000	31.97	---	74.00	42.03	200.0	H	156.0	-15.5
1738.000000	---	23.34	54.00	30.66	200.0	H	156.0	-15.5
1907.000000	---	23.58	54.00	30.42	100.0	V	230.0	-14.8
1907.000000	33.18	---	74.00	40.82	100.0	V	230.0	-14.8

Test mode 3:

3)30MHz ~ 1GHz



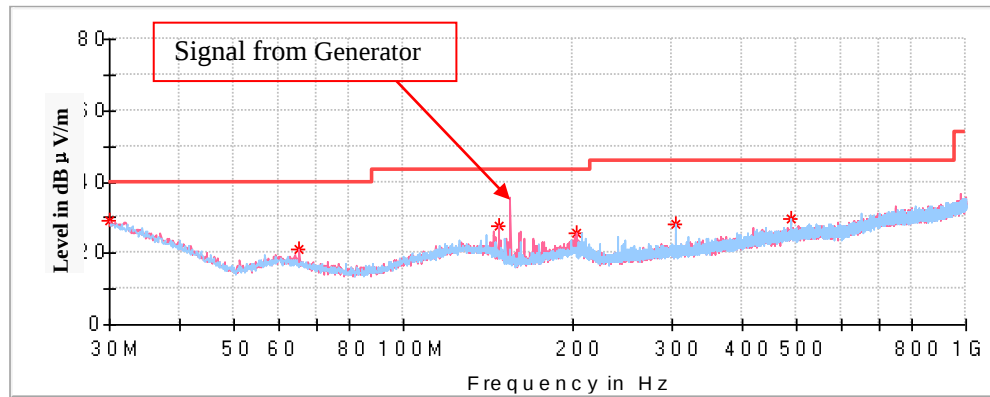
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.727500	29.13	40.00	10.87	200.0	H	156.0	-4.3
62.010000	19.46	40.00	20.54	100.0	V	325.0	-14.5
149.431250	25.28	43.50	18.22	100.0	V	352.0	-12.4
200.113750	24.89	43.50	18.61	100.0	V	236.0	-10.8
240.005000	31.66	46.00	14.34	100.0	H	246.0	-12.8
272.015000	29.24	46.00	16.76	100.0	H	119.0	-11.8

Above 1 GHz:

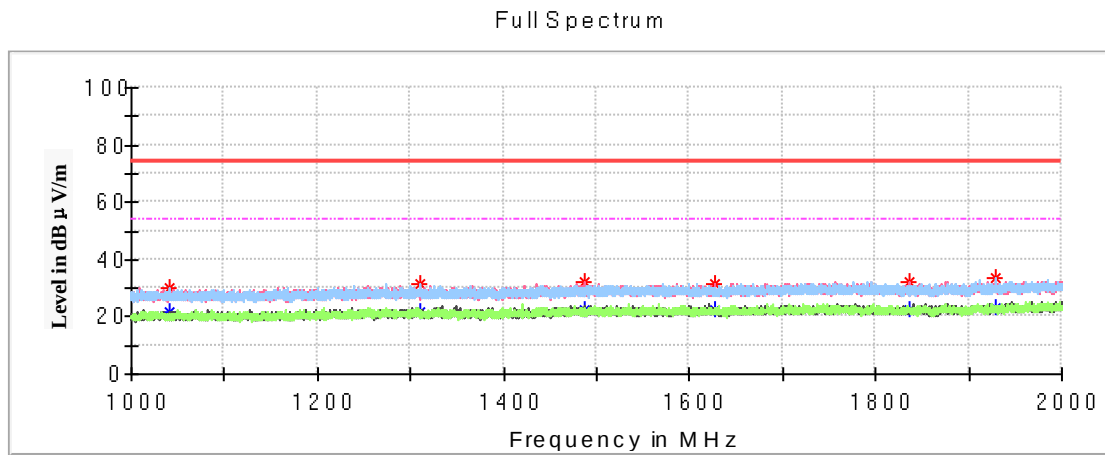
Frequency (MHz)	Max Peak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1159.500000	---	21.50	54.00	32.50	200.0	H	0.0	-18.2
1159.500000	30.83	---	74.00	43.17	200.0	H	0.0	-18.2
1403.800000	---	23.09	54.00	30.91	100.0	V	159.0	-16.9
1403.800000	31.64	---	74.00	42.36	100.0	V	159.0	-16.9
1624.100000	31.90	---	74.00	42.10	200.0	V	0.0	-15.9
1624.100000	---	22.69	54.00	31.31	200.0	V	0.0	-15.9
1723.100000	---	23.12	54.00	30.88	100.0	H	206.0	-15.5
1723.100000	34.22	---	74.00	39.78	100.0	H	206.0	-15.5
1910.700000	33.35	---	74.00	40.65	200.0	H	72.0	-14.8
1910.700000	---	23.97	54.00	30.03	200.0	H	72.0	-14.8
1988.300000	---	23.51	54.00	30.49	100.0	V	3.0	-14.5
1988.300000	32.95	---	74.00	41.05	100.0	V	3.0	-14.5

Test mode 4:

4)30MHz ~ 1GHz



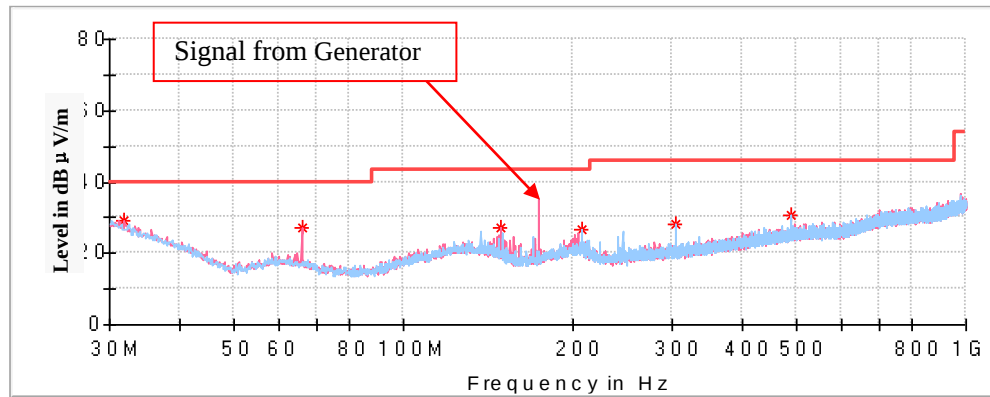
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.000000	29.26	40.00	10.74	200.0	V	137.0	-3.9
65.283750	20.96	40.00	19.04	100.0	V	291.0	-15.1
147.976250	27.70	43.50	15.80	100.0	V	358.0	-12.2
202.781250	25.85	43.50	17.65	100.0	V	260.0	-11.0
304.025000	28.32	46.00	17.68	100.0	H	259.0	-10.7
488.203750	29.58	46.00	16.42	200.0	H	236.0	-5.8

Above 1 GHz:

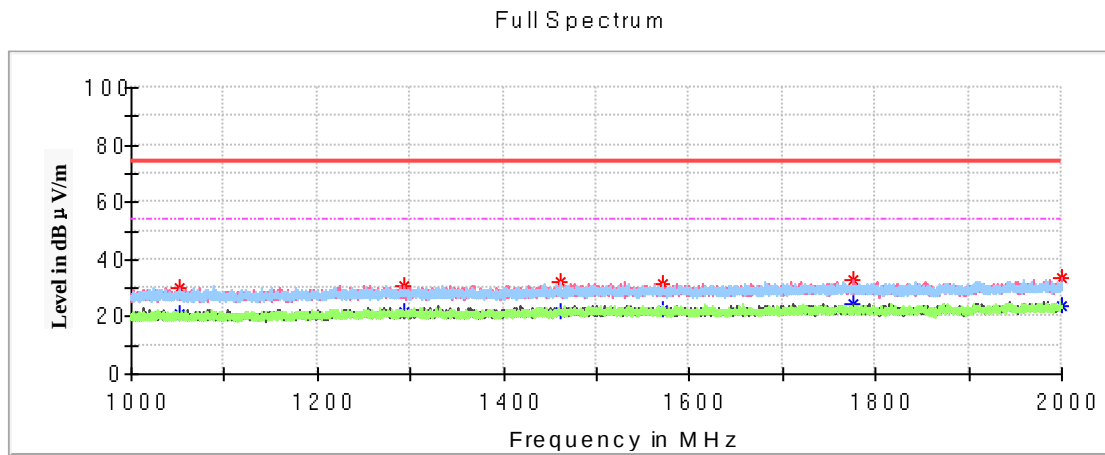
Frequency (MHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1040.900000	---	21.63	54.00	32.37	200.0	H	228.0	-18.8
1040.900000	29.75	---	74.00	44.25	200.0	H	228.0	-18.8
1310.500000	31.53	---	74.00	42.47	200.0	H	303.0	-17.4
1310.500000	---	21.77	54.00	32.23	200.0	H	303.0	-17.4
1487.100000	---	22.66	54.00	31.34	100.0	V	213.0	-16.4
1487.100000	32.00	---	74.00	42.00	100.0	V	213.0	-16.4
1627.200000	31.30	---	74.00	42.70	200.0	H	181.0	-15.9
1627.200000	---	22.43	54.00	31.57	200.0	H	181.0	-15.9
1835.500000	---	22.71	54.00	31.29	100.0	V	84.0	-15.1
1835.500000	32.42	---	74.00	41.58	100.0	V	84.0	-15.1
1928.400000	33.39	---	74.00	40.61	100.0	H	335.0	-14.7
1928.400000	---	22.97	54.00	31.03	100.0	H	335.0	-14.7

Test mode 5:

5)30MHz ~ 1GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.940000	29.36	40.00	10.64	200.0	V	15.0	-5.1
65.890000	26.99	40.00	13.01	100.0	V	149.0	-15.3
149.067500	26.93	43.50	16.57	100.0	V	0.0	-12.4
207.995000	26.50	43.50	17.00	100.0	H	64.0	-11.5
304.025000	28.37	46.00	17.63	100.0	H	262.0	-10.7
488.203750	30.71	46.00	15.29	200.0	H	243.0	-5.8

Above 1 GHz:

Frequency (MHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1051.900000	---	20.86	54.00	33.14	200.0	V	6.0	-18.8
1051.900000	30.42	---	74.00	43.58	200.0	V	6.0	-18.8
1292.200000	30.71	---	74.00	43.29	100.0	V	74.0	-17.5
1292.200000	---	21.45	54.00	32.55	100.0	V	74.0	-17.5
1461.000000	---	21.84	54.00	32.16	200.0	H	158.0	-16.6
1461.000000	32.25	---	74.00	41.75	200.0	H	158.0	-16.6
1570.700000	31.58	---	74.00	42.42	100.0	H	13.0	-16.1
1570.700000	---	22.18	54.00	31.82	100.0	H	13.0	-16.1
1775.500000	---	24.15	54.00	29.85	100.0	V	106.0	-15.3
1775.500000	32.72	---	74.00	41.28	100.0	V	106.0	-15.3
1999.800000	33.35	---	74.00	40.65	200.0	V	106.0	-14.5
1999.800000	---	24.06	54.00	29.94	200.0	V	106.0	-14.5

FCC §15.111 - ANTENNA CONDUCTED POWER FOR RECEIVERS

Applicable Standard

FCC §15.111

Limit

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

Frequency Range	Limit
9 kHz to 5 GHz	2.0 nW (-57 dBm)

EUT Setup



Test Procedure

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of the worst case condition was reported on the following Data page.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2020-08-05	2021-08-04
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
ZHAOXIN	DC Power Supply	RXN-605D	DC002	2020-10-10	2021-10-09
Midland	RF Cable	Midland C01	C01	Each Time	/

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

Test Data

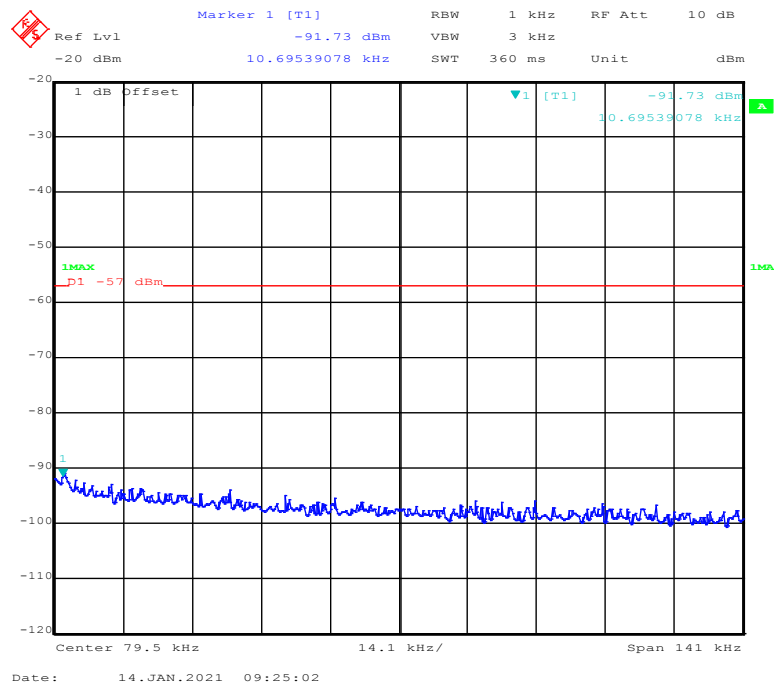
Environmental Conditions

Temperature:	23.2 °C
Relative Humidity:	52 %
ATM Pressure:	101.3 kPa

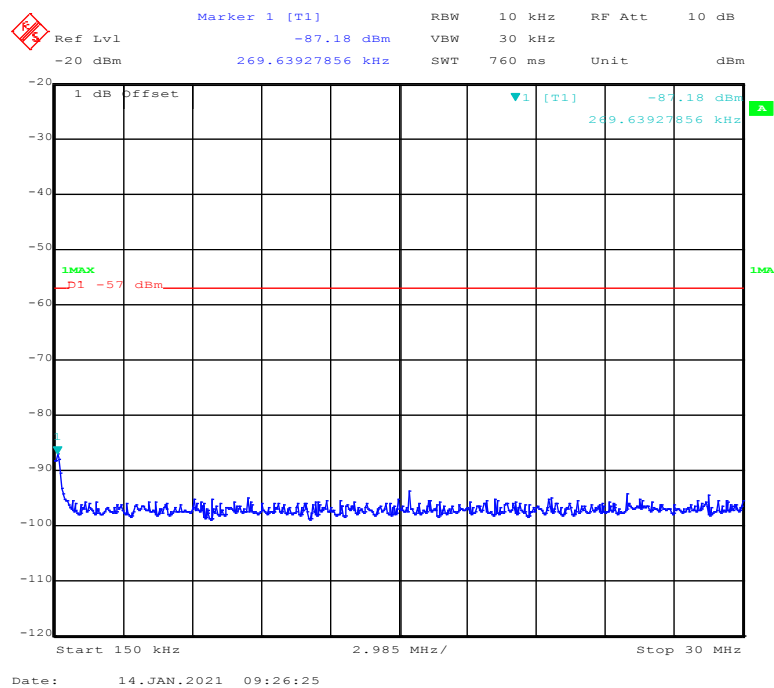
The testing was performed by Gerry Xing on 2021-01-14.

Test mode: Scan receiver mode

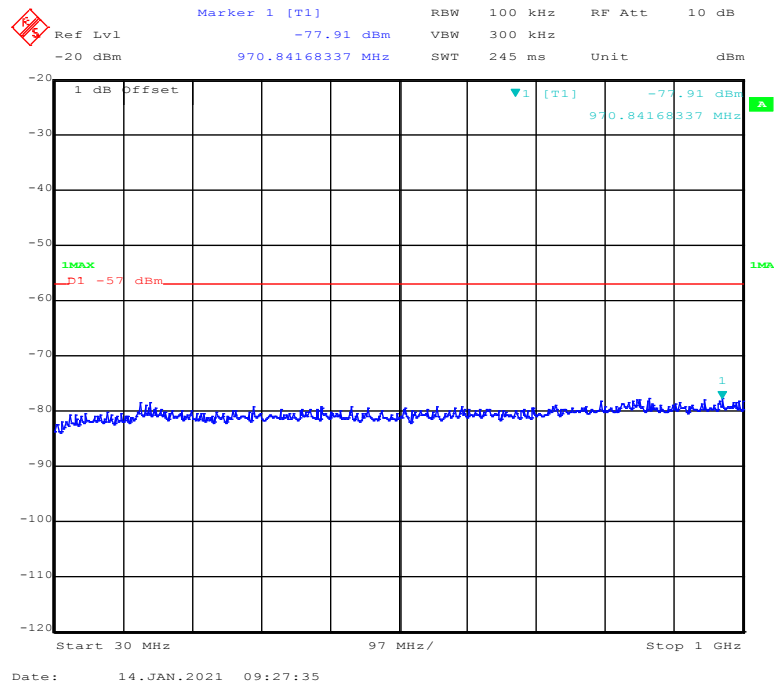
Conducted Measurement (9 kHz to 150 kHz)



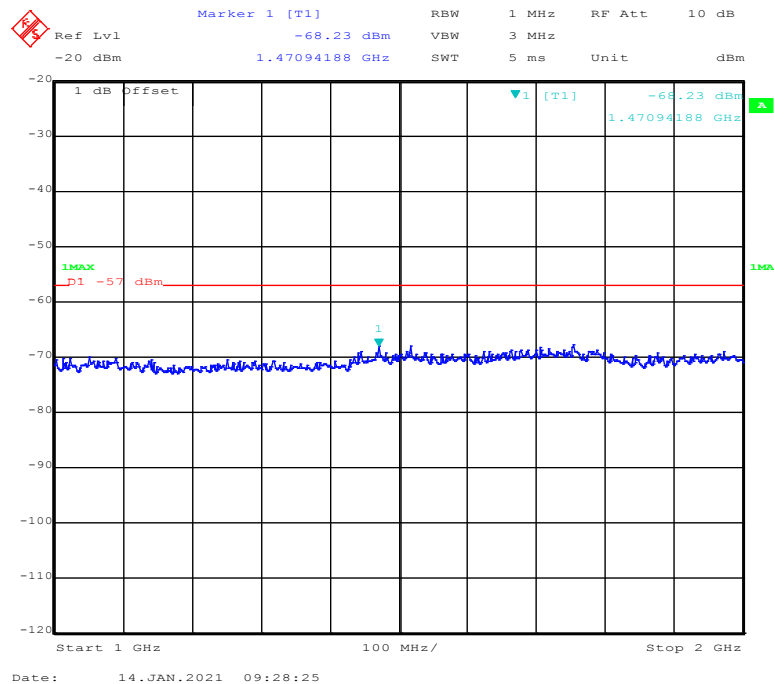
Conducted Measurement (150 kHz to 30MHz)



Conducted Measurement (30MHz to 1GHz)



Conducted Measurement (1GHz to 2GHz)



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

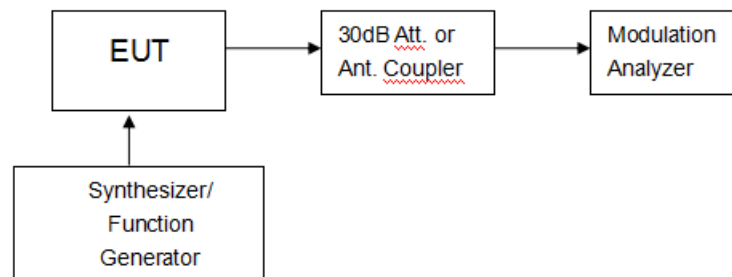
Applicable Standard

FCC §15.121(b)

Limit

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.

EUT Setup



Test Procedure

- 1) Connected the EUT as shown in the above block diagram.
- 2) Apply a RF signal to the receiver input port at lowest, middle and highest channel frequencies of receiver operation band.
- 3) Adjust the audio output level of the receiver to it's rated value with the distortion less than 10%.
- 4) Adjust the RF Signal Generator Output Power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB. This output level of the RF SG at each channel frequency is the sensitivity of the receiver.
- 5) Select the lowest or worse-case sensitivity level for all of the bands as the reference sensitivity.
- 6) Adjust the RF Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5) and its frequency to the frequency points in the cellular band.
- 7) Set the Receiver squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level.
- 8) Set the receiver in a scanning mode and allow it to scan through it's complete receiving range.
- 9) If the receiver unquenched 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 38dB.
- 10) Repeat above procedure at the frequencies 824, 836.0, and 849 MHz for the mobile band, and 869, 881.5, and 894 MHz for the cellular base band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Narda	Attenuator	30dB	030	2020-08-15	2021-08-14
ZHAOXIN	DC Power Supply	RXN-605D	DC002	2020-10-10	2021-10-09
HP	RF communication test SET.	8920B	079	2020-04-01	2021-03-31
Midland	RF Cable	Midland C01	C01	Each Time	/

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

Test Data**Environmental Conditions**

Temperature:	23.2 °C
Relative Humidity:	53 %
ATM Pressure:	101.3 kPa

The testing was performed by Gerry Xing on 2021-02-22.

Test mode: Scanning receiver

EUT's Scanning Frequency Range (MHz)	Test Frequencies of Cellular Band (MHz)	Measurement Result (dB)	Limit (dB)
136-174	824, 836.0, 849, 869, 881.5, 894	50	>38

Note:

1. The test report only shows the worst test results

Declarations

- 1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.
- 2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
- 3: Otherwise required by the applicant or Product Regulations, 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 with the 95% confidence interval.
- 5: This report cannot be reproduced except in full, without prior written approval of the Company.
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*******END OF REPORT*******