



# JAPAN MIC TEST REPORT

For

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**Tested Model: LGT92-LI**  
**Multiple Model: LGT92-AA**

<b>Report Type:</b> Original Report	<b>Product Type:</b> LoRaWAN GPS Tracker
<b>Report Number:</b>	<u>RSZ200226001-07</u>
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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Equipment Name	LoRaWAN GPS Tracker	
Tested Model	LGT92-LI	
Multiple Model	LGT92-AA	
Model Differences	Refer to the DOS letter	
Technical Parameters	Modulation Type	chirp –based Spread-Spectrum
	Frequency Range	922.0-923.4MHz
	Rated Output Power	20mW
	Antenna Gain	FPC Antenna: -0.10dBi (LGT92-LI) External Antenna: 2.81dBi(LGT92-AA)
Nominal Power Supply:	DC 3.7V	
Voltage Range	DC 3.33V to DC 4.07V	
Sample serial number	RSZ200226001-RF-S1(Assigned by BAACL, Shenzhen)	
Received date	2020-02-26	
Sample/EUT Status	Good condition	

### Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 8 of Article 2 Paragraph 1, rules and limits for this device including:

- Frequency Error
- Occupied Bandwidth
- Transmitter Spurious Emission and Unwanted Emission Intensity
- Antenna Output Power Tolerance
- Adjacent Channel Leakage Power
- Receiver Spurious Emission Strength
- Transmitting Time Restrictions
- Carrier Sense Capability

### Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s).

### Test Methodology

All measurements contained in this report were conducted with technical regulations of the Radio Law of Japan.

## EUT TEST CONFIGURATION

### Description of Test Configuration

The device supports 8 channels, 125 kHz bandwidth.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	922.0	1	922.2
2	922.4	3	922.6
4	922.8	5	923.0
6	923.2	7	923.4

Test was made on channel 0, 3, 7

### EUT Exercise Software

Software "Secure CRT" was used, the power level is default.

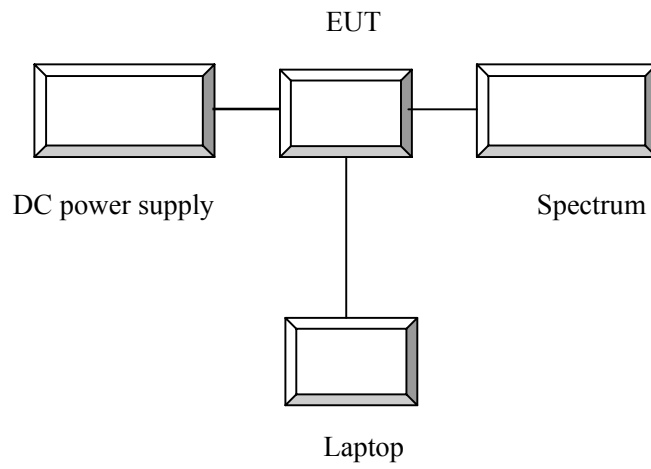
### Equipment Modifications

No modification was made to the EUT tested.

### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
instek	DC Power Supply	GPS-3030DD	EM832096
Dell	Notebook	Latitude E5430	11429208685

### Configuration of Test Setup



Lower Voltage: 3.33 V<sub>DC</sub>  
Normal Voltage: 3.7 V<sub>DC</sub>  
High Voltage: 4.07 V<sub>DC</sub>

**SUMMARY OF TEST RESULTS**

<b>MIC Notice No.88 Appendix No.22-2 Article 2, Paragraph 1, Item 8 Rules Section</b>	<b>Description of Test</b>	<b>Result</b>
§ 2	Frequency Error	Compliance
§ 3	Occupied Bandwidth	Compliance
§ 4	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliance
§ 5	Antenna Output Power Tolerance	Compliance
§ 6	Adjacent channel leakage power	Compliance
§ 7	Receiver Spurious Emission and Unwanted Emission Intensity	Compliance
§ 8	Transmitting Time Restrictions	Compliance
§ 9	Carrier Sense Capability	Compliance
Note 1	Construction Protection Confirmation	Compliance

Note: The EUT has two models which contain the same RF PCB board. The model of the higher antenna gain was chosen for the full test.

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>RF CONDUCTED TEST</b>					
Agilent	USB Wideband Power Sensor	U2021XA	MY54250003	2019/7/10	2020/7/9
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2020/3/2	2021/3/1
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM121	2019/11/29	2020/11/28
Agilent	MXG Vector Signal Generator	N5182B	MY53051503	2019/7/22	2020/7/21
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2019/04/12	2020/04/12
Fluke	Digital Multimeter	287	19000011	2020/04/12	2021/04/12
Unknown	RF Cable	Unknown	2301 276	2019/11/29	2020/11/28

\* **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).



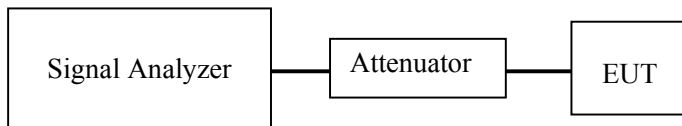
## § 2 FREQUENCY ERROR

### Limit

20 ppm or below

### Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- Set the application equipment (EUT) to the measurement frequency.
- The modulation state shall be “continuous carrier wave without modulation”.

Spectrum Analyzer Conditions

- Center Frequency: Frequency to be measured
- RBW: 10 kHz, VBW: 30 kHz
- Sweep time: Auto
- Log scale: 10dB/Div, Data points: 501points (400 points or more)
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak,
- Sweep mode: Single sweep

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	23 °C
<b>Relative Humidity:</b>	52 %
<b>ATM Pressure:</b>	101.1 kPa

*The testing was performed by George Zhong on 2020-04-14.*

**Test Result:** Compliant

Test Mode: Transmitting

Normal Voltage

Frequency (MHz)	Measurement $F_L$ (MHz)	Measurement $F_H$ (MHz)	$(F_L+F_H)/2$ (MHz)	Frequency tolerance (ppm)	Limit (ppm)
922.0	921.9305385	922.0766923	922.0036154	3.92	< 20
922.6	922.5309154	922.6770692	922.6039923	4.33	
923.4	923.3309192	923.4775538	923.4042365	4.59	

Low Voltage

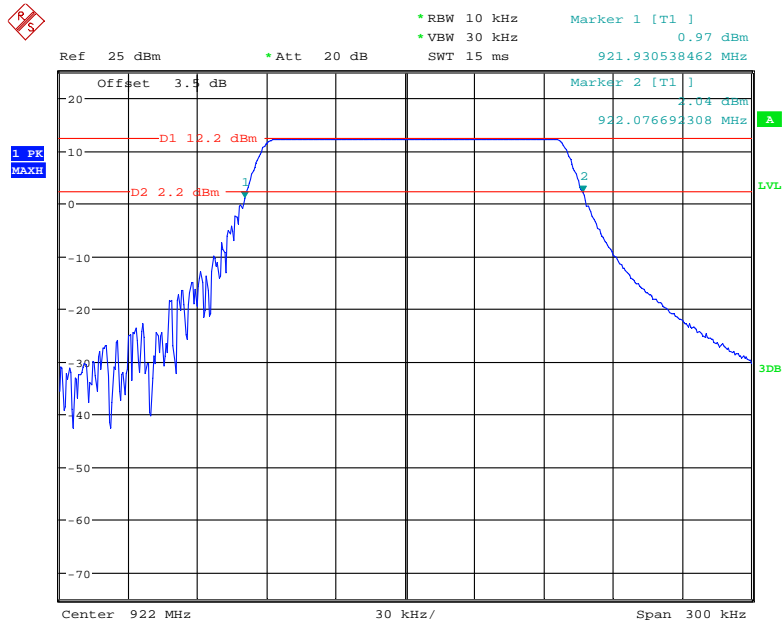
Frequency (MHz)	Measurement $F_L$ (MHz)	Measurement $F_H$ (MHz)	$(F_L+F_H)/2$ (MHz)	Frequency tolerance (ppm)	Limit (ppm)
922.0	921.9305376	922.0766917	922.0036147	3.92	< 20
922.6	922.5309148	922.6770683	922.6039916	4.33	
923.4	923.3309186	923.4775527	923.4042357	4.59	

High Voltage

Frequency (MHz)	Measurement $F_L$ (MHz)	Measurement $F_H$ (MHz)	$(F_L+F_H)/2$ (MHz)	Frequency tolerance (ppm)	Limit (ppm)
922.0	921.9305379	922.0766915	922.0036147	3.92	< 20
922.6	922.5309145	922.6770683	922.6039914	4.33	
923.4	923.3309182	923.4775531	923.4042357	4.59	

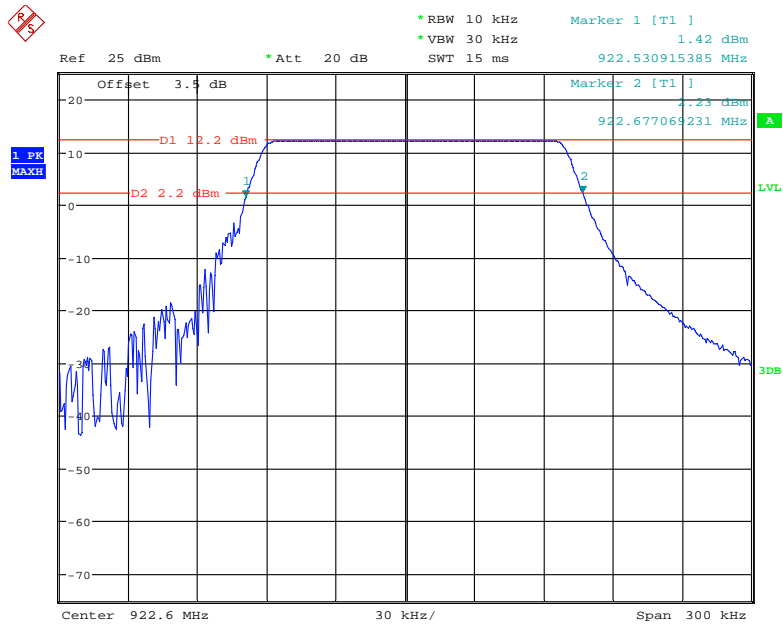
Please refer to the plots for normal voltage test.

### Low Channel



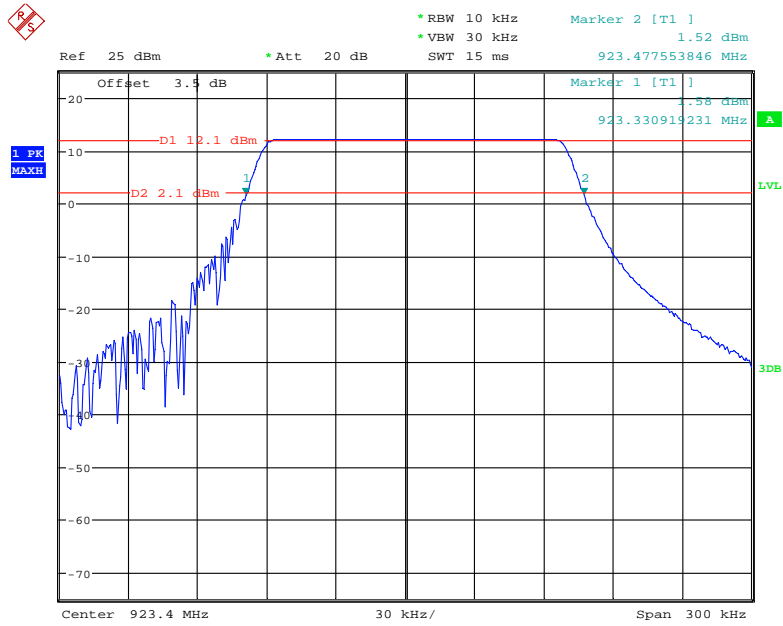
Date: 14.APR.2020 17:20:45

### Middle Channel



Date: 14.APR.2020 17:32:48

### High Channel



Date: 14.APR.2020 17:46:16

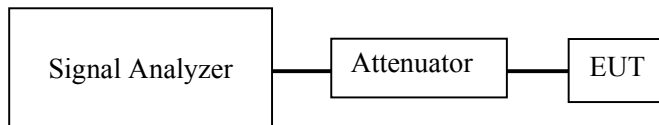
## § 3 OCCUPIED BANDWIDTH

### Limit

According to the regulation of the radio frequency equipment annex 2 clause 28, for low power radio frequency equipment , the limit of occupied bandwidth is:  $\leq 200$  kHz;  $\leq 400$  kHz;  $\leq 600$  kHz;  $\leq 800$  kHz;  $\leq 1000$  kHz.

### Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- Transmitting with modulation.

Spectrum Analyzer Conditions

- Center Frequency: Frequency to be measured
- Span: 2 to 3.5 times of the limit
- RBW: Below 3% of the limit
- VBW: Same as the RBW
- Sweep time: Auto, Marker: Marker Off
- Log scal : 10dB/Div, Data points : 501points (400 points or more)
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak, Sweep mode: Continuous

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	24 °C
<b>Relative Humidity:</b>	53 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by George Zhong on 2020-03-11 and 2020-03-20.*

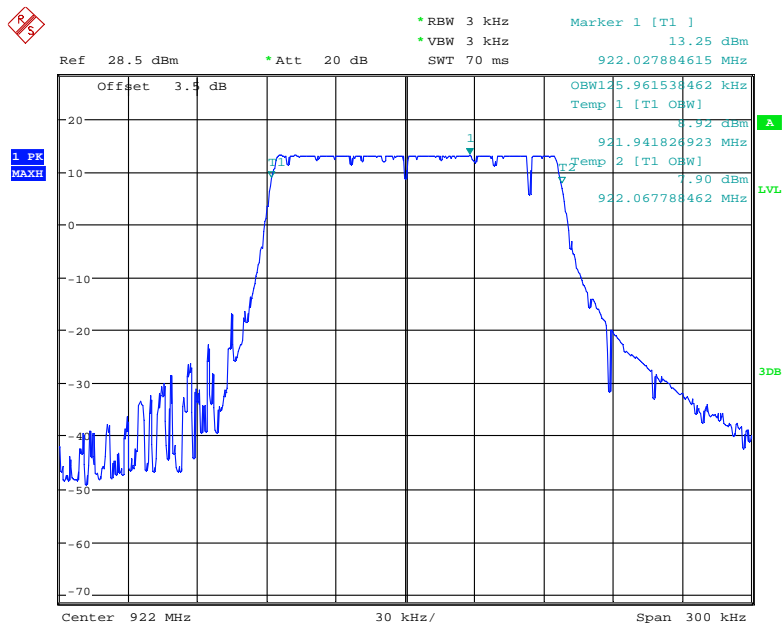
**Test Result:** Compliant

*Test Mode: Transmitting*

Voltage	Low channel (MHz)	Middle channel (MHz)	High channel (MHz)	Limit (MHz)
Normal	0.126	0.126	0.126	≤0.2
Low	0.125	0.125	0.126	
High	0.126	0.125	0.125	

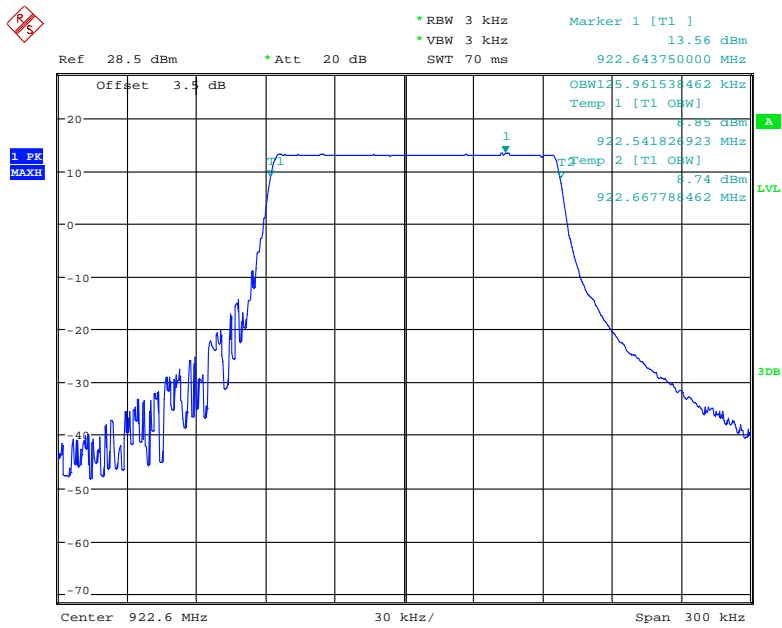
Please refer to the below plots for normal voltage test.

**Low channel Occupied Bandwidth**



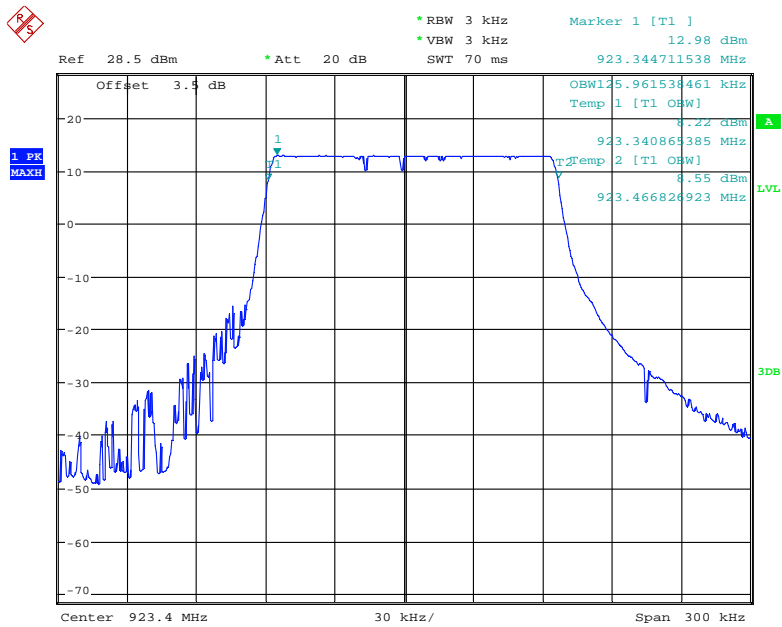
Date: 11.MAR.2020 20:15:08

### Middle channel Occupied Bandwidth



Date: 11.MAR.2020 20:32:59

### High channel Occupied Bandwidth



Date: 20.MAR.2020 16:32:25

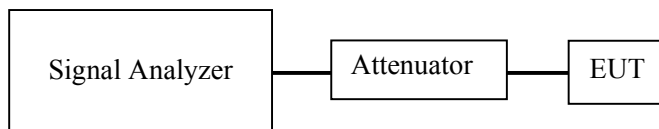
## § 4 TRANSMITTER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

### Limit

Frequency band	Spurious emission strength (average power)	Reference bandwidth
$f \leq 710 \text{ MHz}$	-36 dBm	100 kHz
$710 \text{ MHz} < f \leq 900 \text{ MHz}$	-55 dBm	1M Hz
$900 \text{ MHz} < f \leq 915 \text{ MHz}$	-55 dBm	100 kHz
$915 \text{ MHz} < f \leq 930 \text{ MHz}^*$ (Except for $ f-f_c  \leq (200+100 \times n) \text{ kHz}$ if bandwidth of unit radio channel is 200 kHz, except for $ f-f_c  \leq (100+50 \times n) \text{ kHz}$ if bandwidth of unit radio channel is 100 kHz. Except for $ f-f_c  \leq (100+100 \times n) \text{ kHz}$ if frequency band is $915.9 \text{ MHz} \leq f \leq 916.9 \text{ MHz}$ and $920.5 \text{ MHz} \leq f \leq 922.3 \text{ MHz}$ . Where n is a number of unit radio channels constituting the radio channel and is an integer from 1 to 5)	-36 dBm	100 kHz
$930 \text{ MHz} < f \leq 1000 \text{ MHz}$	-55 dBm	100 kHz
$1000 \text{ MHz} < f \leq 1,215 \text{ MHz}$	-45 dBm	1M Hz
$1,215 \text{ MHz} < f$	-30 dBm	1M Hz

### Test Procedure

#### Measurement System Diagram



#### Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

#### Spectrum Analyzer Conditions:

Frequency range: 30MHz-710MHz, RBW/VBW=100/100kHz  
 Frequency range: 710MHz-900MHz, RBW/VBW=1/1MHz  
 Frequency range: 900MHz-915MHz, RBW/VBW=100/100kHz  
 Frequency range: 915MHz-930MHz, RBW/VBW=100/100kHz  
 Frequency range: 930MHz-1000MHz, RBW/VBW=100/100kHz  
 Frequency range: 1000MHz-1215MHz, RBW/VBW=1/1MHz  
 Frequency range: 1215MHz-5000MHz, RBW/VBW=1/1MHz



**Test Data****Environmental Conditions**

<b>Temperature:</b>	23 °C
<b>Relative Humidity:</b>	55 %
<b>ATM Pressure:</b>	101.0 kPa

The testing was performed by George Zhong on 2020-03-11 and 2020-03-20.

**Test Result:** Compliant

*Test Mode: Transmitting*

**Normal Voltage**

<b>Frequency Band</b>	<b>922.0 MHz</b>	<b>922.6 MHz</b>	<b>923.4MHz</b>	<b>Limit</b>
Band I	-72.06	-72.18	-71.68	-36 dBm/100kHz
Band II	-68.27	-70.58	-68.51	-55 dBm/1MHz
Band III	-70.90	-71.37	-72.11	-55 dBm/100kHz
Band IV	-47.34	-46.89	-48.57	-36 dBm/100kHz
Band V	-48.19	-43.39	-46.71	-36 dBm/100kHz
Band VI	-70.91	-71.85	-71.93	-55 dBm/100kHz
Band VII	-68.49	-70.58	-68.07	-45 dBm/1MHz
Band VIII	-63.38	-69.88	-42.49	-30 dBm/1MHz

**Low Voltage**

Frequency Band	922.0 MHz	922.6 MHz	923.4MHz	Limit
Band I	-72.03	-72.08	-71.60	-36 dBm/100kHz
Band II	-68.25	-70.52	-68.33	-55 dBm/1MHz
Band III	-70.74	-71.30	-72.06	-55 dBm/100kHz
Band IV	-47.30	-46.77	-46.83	-36 dBm/100kHz
Band V	-48.18	-43.29	-46.69	-36 dBm/100kHz
Band VI	-70.88	-71.73	-71.93	-55 dBm/100kHz
Band VII	-68.41	-70.57	-68.00	-45 dBm/1MHz
Band VIII	-63.25	-69.84	-63.04	-30 dBm/1MHz

**High Voltage**

Frequency Band	922.0 MHz	922.6 MHz	923.4MHz	Limit
Band I	-72.06	-72.2	-71.77	-36 dBm/100kHz
Band II	-68.33	-70.70	-68.56	-55 dBm/1MHz
Band III	-70.95	-71.49	-72.22	-55 dBm/100kHz
Band IV	-47.37	-46.91	-46.94	-36 dBm/100kHz
Band V	-48.32	-43.46	-46.74	-36 dBm/100kHz
Band VI	-70.99	-71.96	-71.94	-55 dBm/100kHz
Band VII	-68.54	-70.75	-68.16	-45 dBm/1MHz
Band VIII	-63.44	-69.89	-63.28	-30 dBm/1MHz

**Note:**

Band I: 30 MHz~710 MHz, limit is -36 dBm/100kHz

Band II: 710 MHz~900 MHz, limit is -55 dBm/1MHz

Band III: 900 MHz~915 MHz, limit is -55 dBm/100kHz

Band IV: 915 MHz~f MHz, limit is -36 dBm/100kHz(Except 200 + 100 x n kHz from the center frequency of radio channel, n=1)

Band V: f MHz~930MHz, limit is -36 dBm/100kHz(Except 200 + 100 x n kHz from the center frequency of radio channel, n=1)

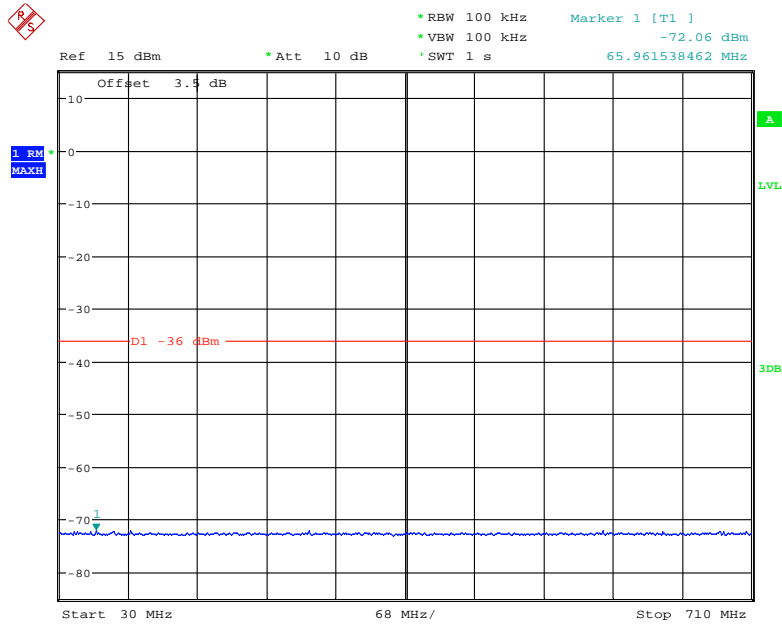
Band VI: 930 MHz~1000 MHz, limit is -55 dBm/100kHz

Band VII: 1000 MHz~1215 MHz, limit is -45 dBm/1MHz

Band VIII: 1215 MHz~5000 MHz, limit is -30 dBm/1MHz

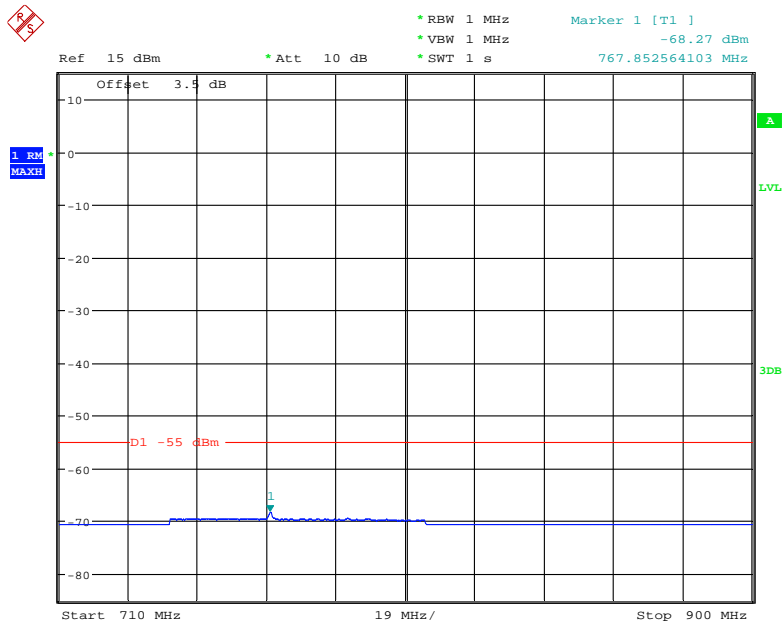
Low Channel

30 MHz ~ 710 MHz



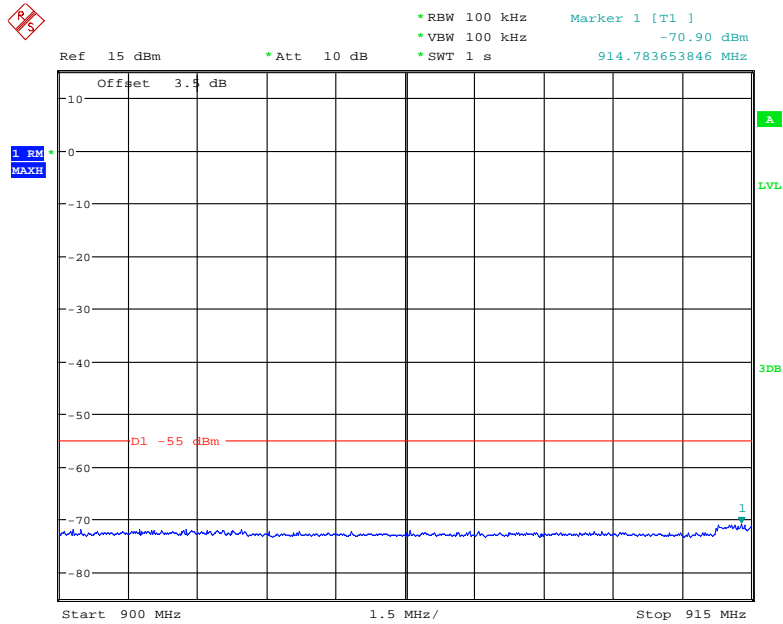
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710 MHz ~ 900 MHz



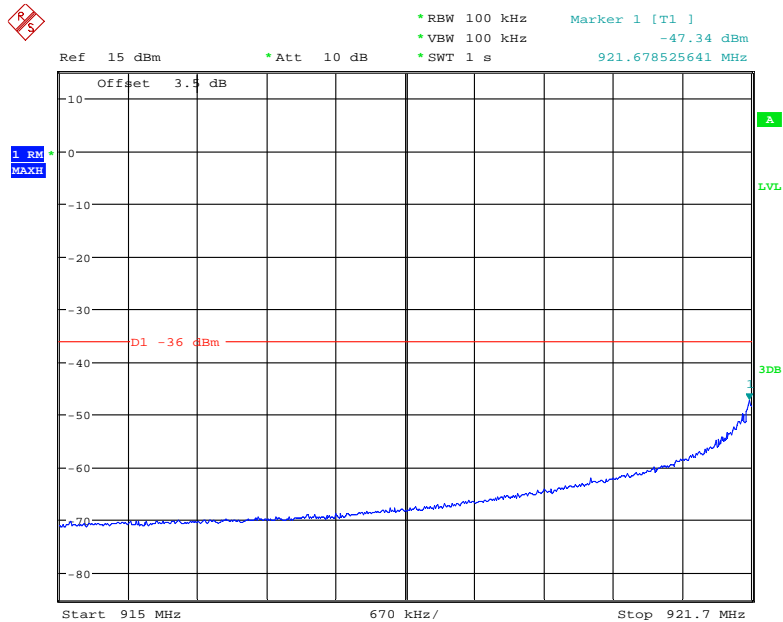
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### 900 MHz ~ 915 MHz



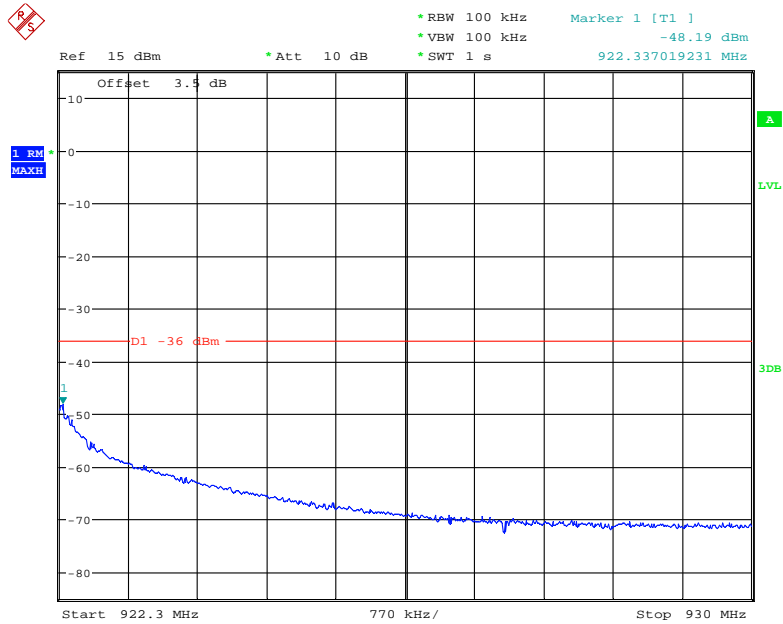
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### 915 MHz ~ 921.7MHz



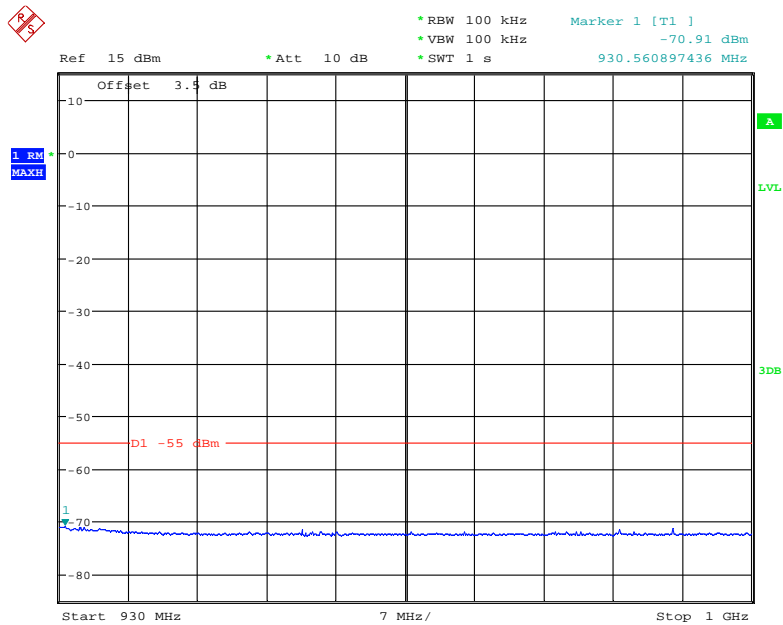
Date: 11.MAR.2020 21:29:03

### 922.3 MHz ~ 930MHz



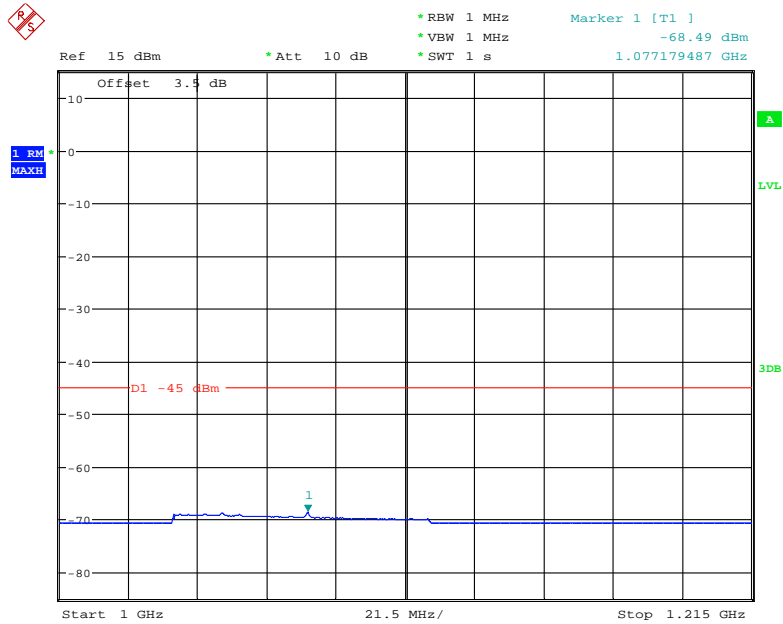
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### 930 MHz ~ 1 GHz



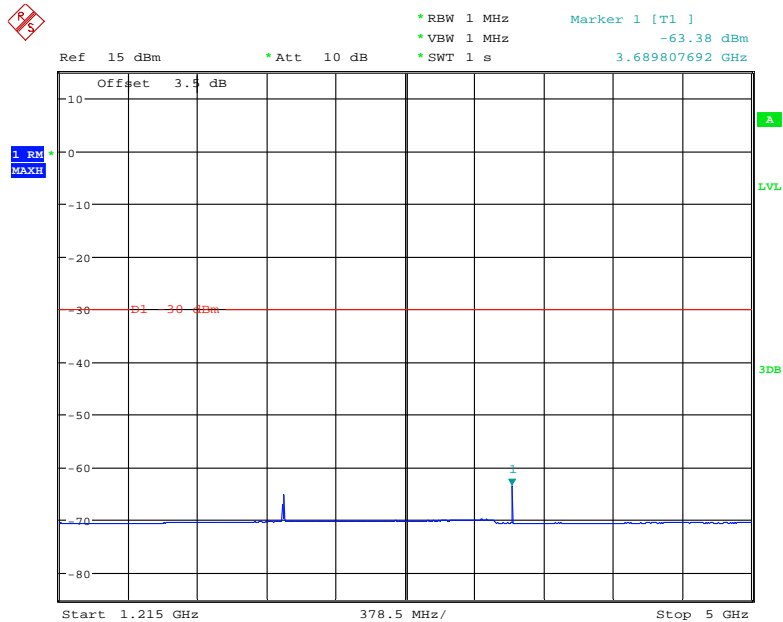
Date: 11.MAR.2020 20:52:04

### 1 GHz ~ 1.215 GHz



Date: 11.MAR.2020 20:53:22

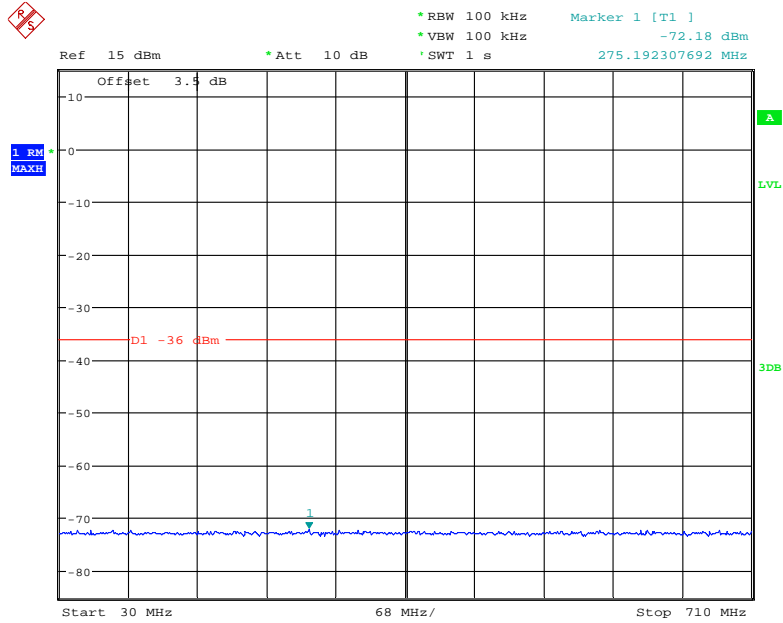
### 1.215 GHz ~ 5 GHz



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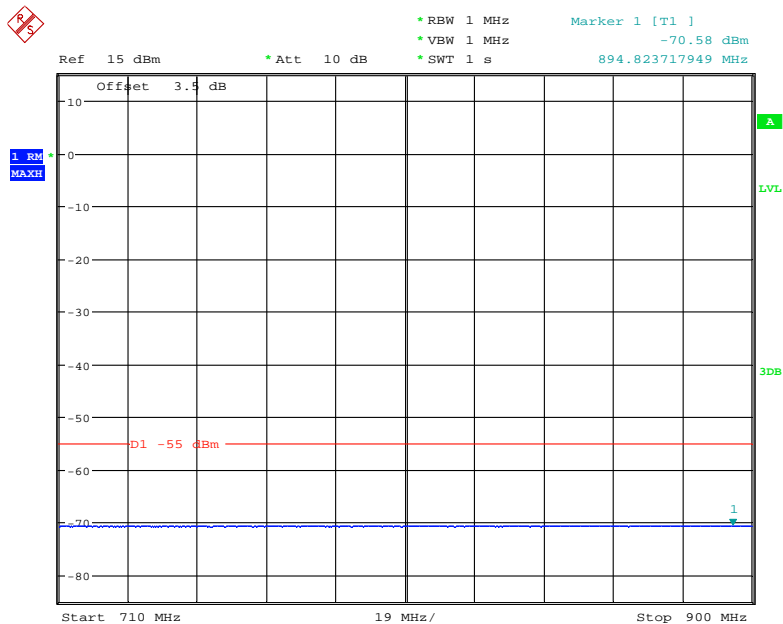
Middle Channel:

30 MHz ~ 710 MHz



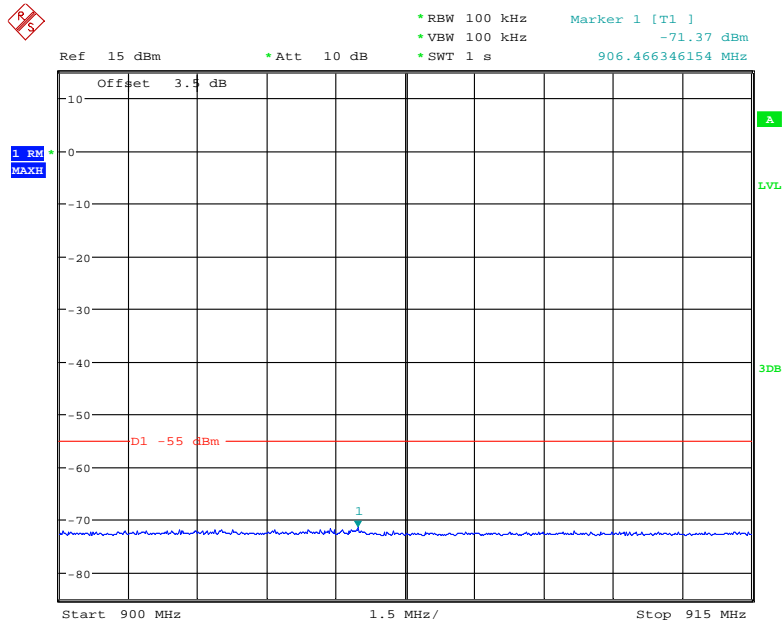
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710 MHz ~ 900 MHz



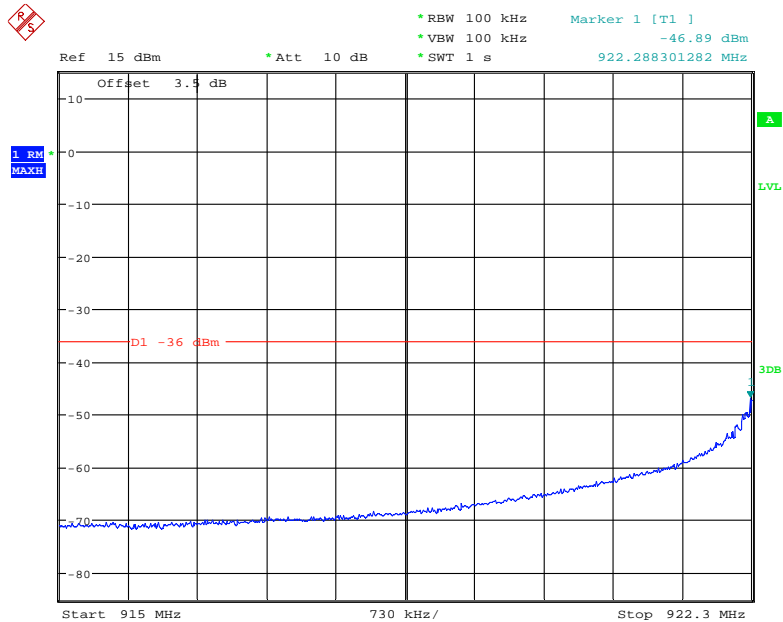
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### 900 MHz ~ 915 MHz



Date: 11.MAR.2020 20:49:52

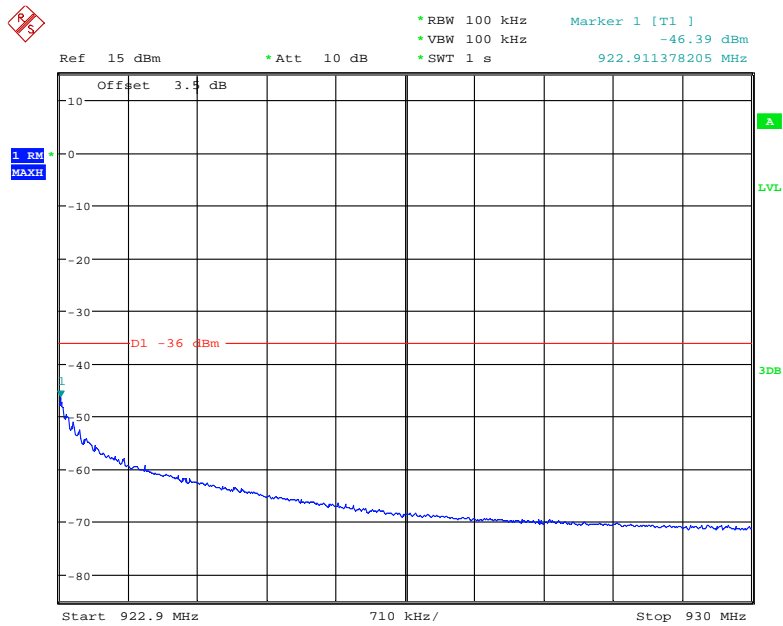
### 915 MHz ~ 922.3MHz



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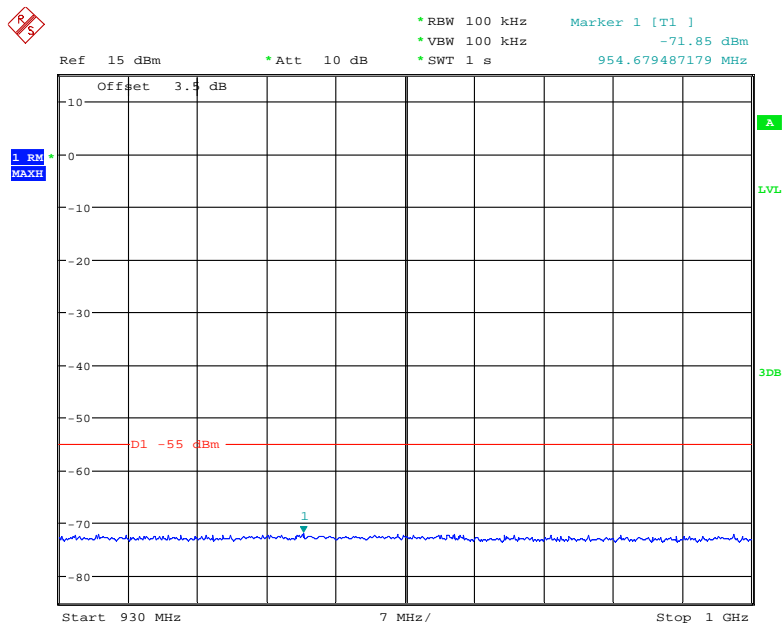


### 922.9 MHz ~ 930MHz



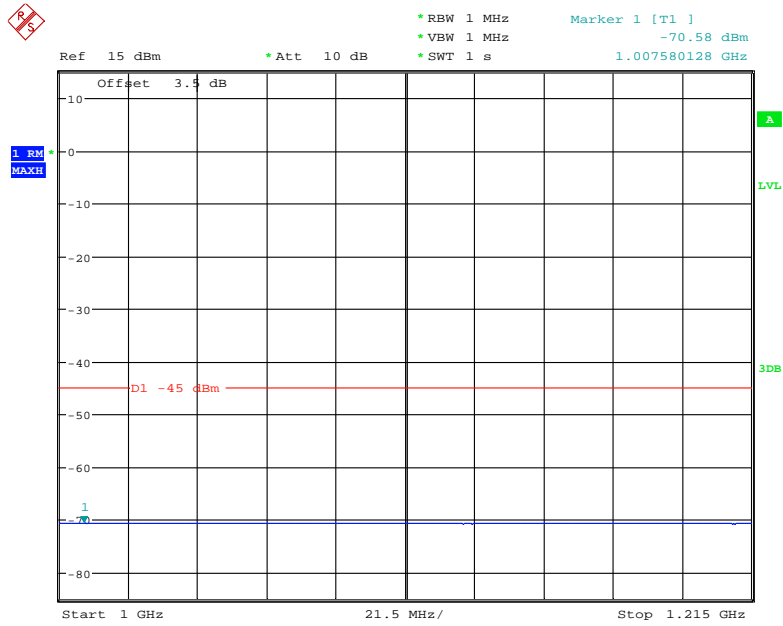
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### 930 MHz ~ 1 GHz



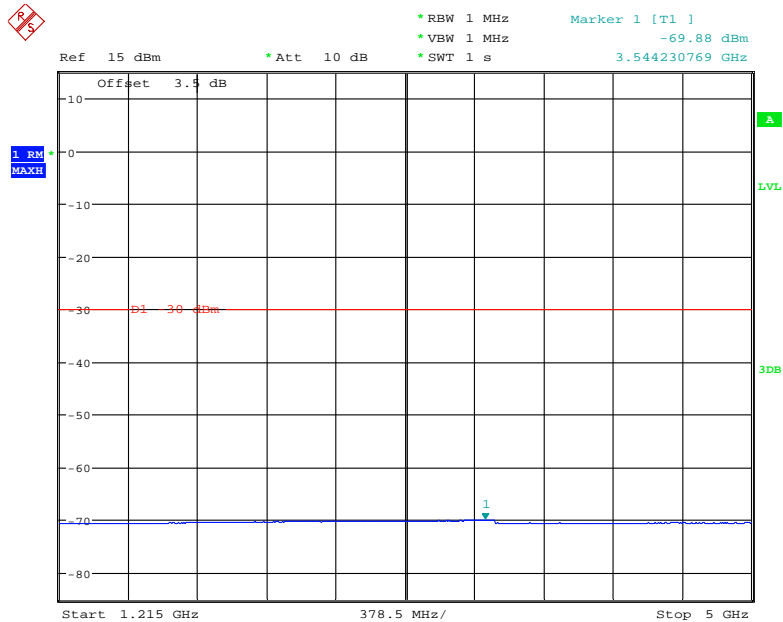
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### 1 GHz ~ 1.215 GHz



Date: 11.MAR.2020 20:53:14

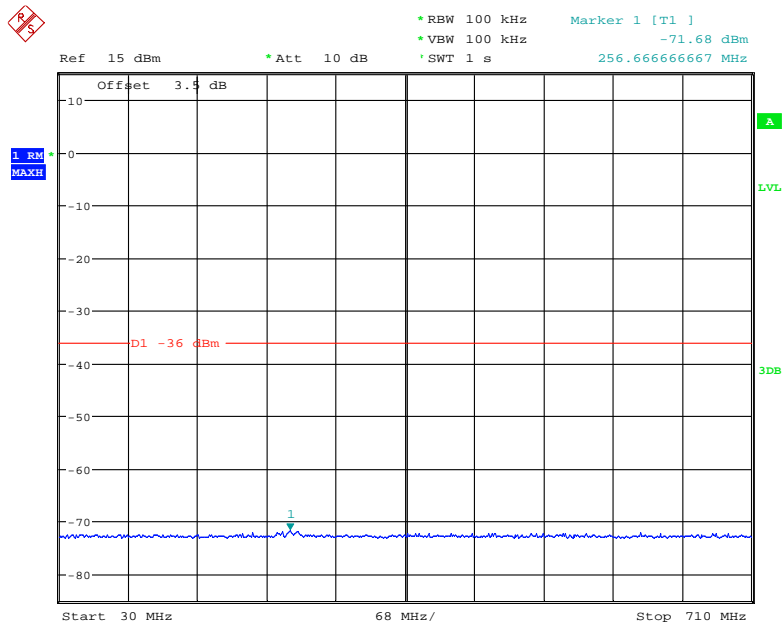
### 1.215 GHz ~ 5 GHz



Date: 11.MAR.2020 20:54:26

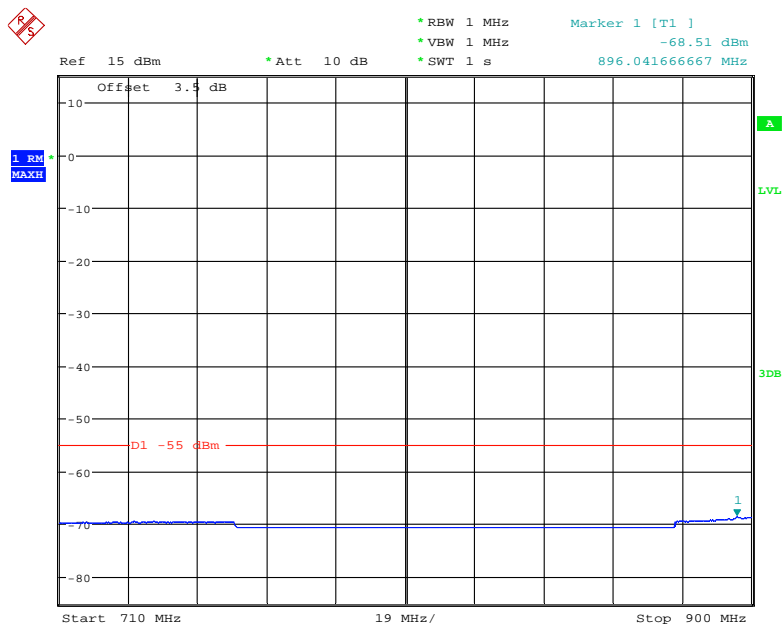
High Channel:

30 MHz ~ 710 MHz



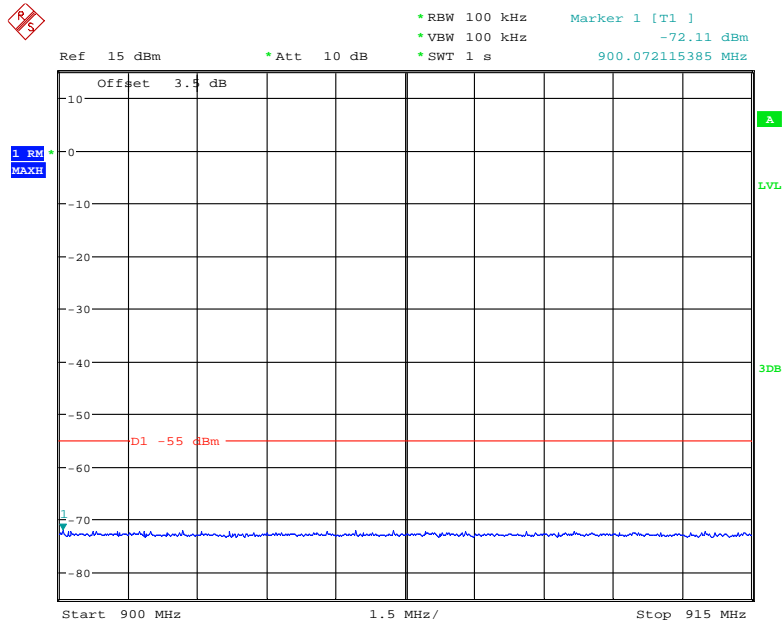
Date: 11.MAR.2020 20:46:54

710 MHz ~ 900 MHz



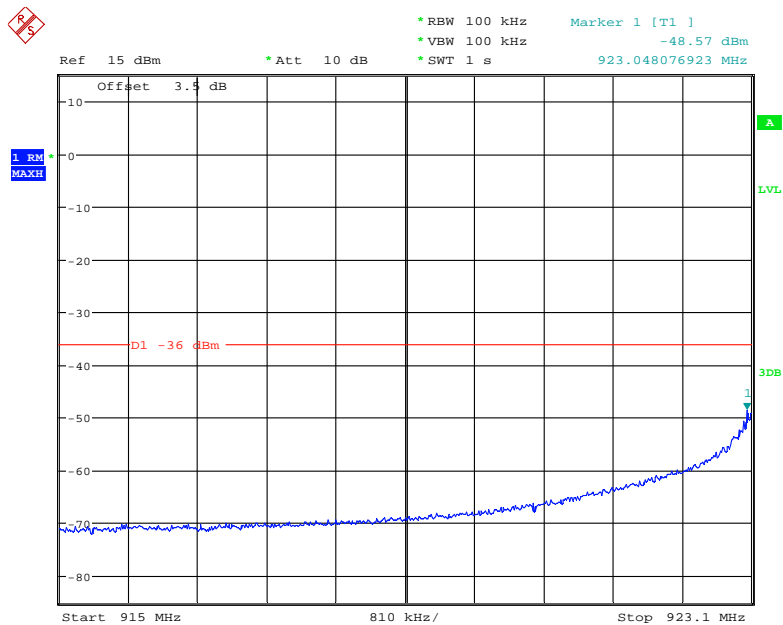
Date: 11.MAR.2020 20:49:00

### 900 MHz ~ 915 MHz



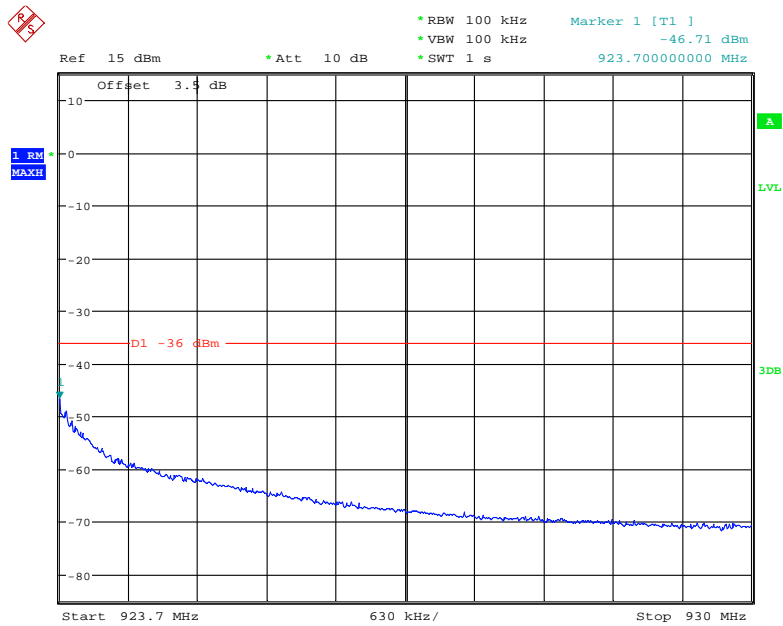
Date: 11.MAR.2020 20:49:42

### 915 MHz ~ 923.1MHz



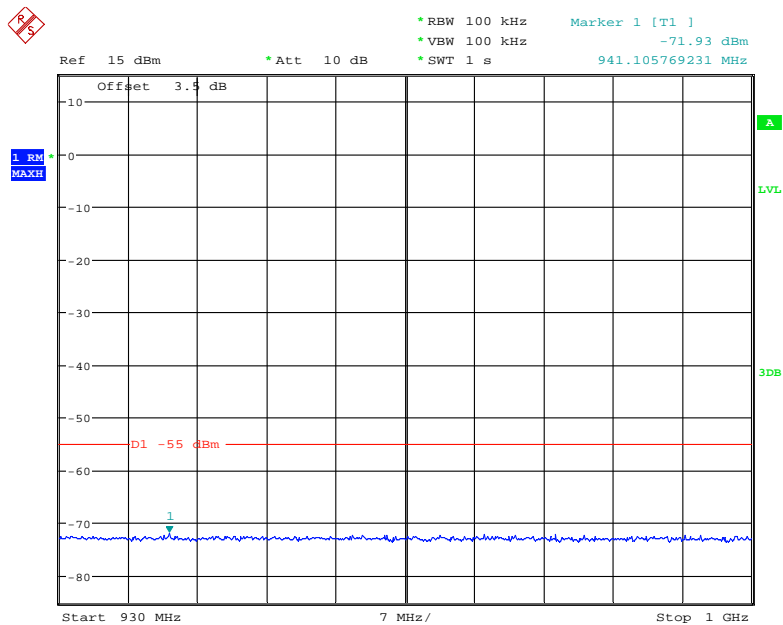
Date: 20.MAR.2020 16:39:28

### 923.7 MHz ~ 930MHz



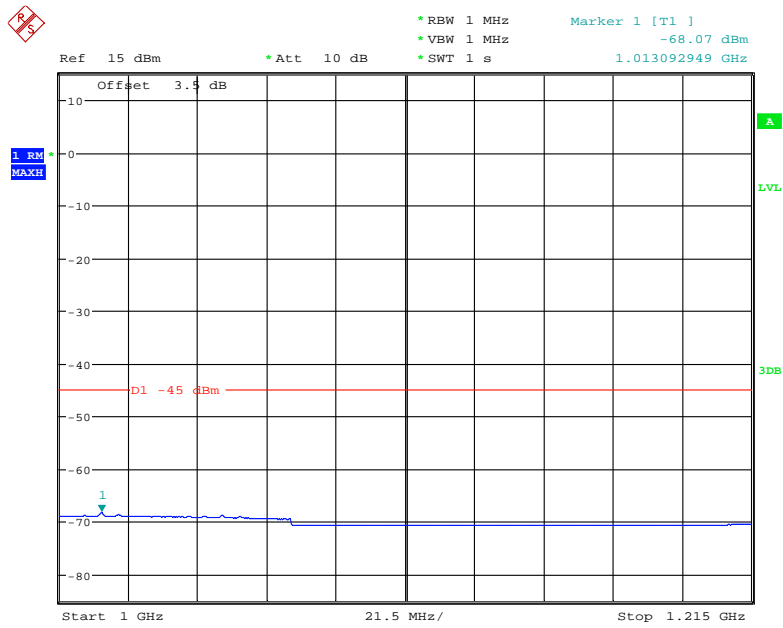
Date: 20.MAR.2020 16:40:28

### 930 MHz ~ 1 GHz



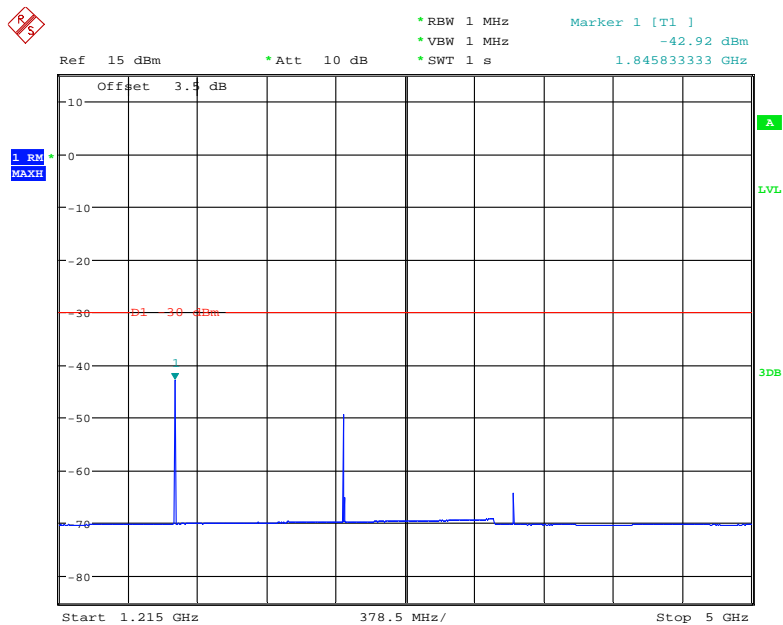
Date: 11.MAR.2020 20:52:30

### 1 GHz ~ 1.215 GHz



Date: 11.MAR.2020 20:53:01

### 1.215 GHz ~ 5 GHz



Date: 20.MAR.2020 16:41:57

## § 5 ANTENNA OUTPUT POWER TOLERANCE

### Limit

The Output Power Tolerance must be within +20%, -80%.

The output power shall be less than 20 mW.

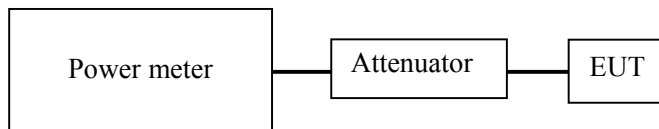
Antenna gain less than 3dBi.

### Test Procedure

Step 1: Measure the total power by Power Meter in a state of hopping mode or non-hopping mode (with Average Sensor)

Step 2: Record the value in the report and Calculate the tolerance of the output power.

### Test Setup Block diagram



### Test Data

#### Environmental Conditions

<b>Temperature:</b>	24 °C
<b>Relative Humidity:</b>	54 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by George Zhong on 2020-03-11.*

**Test Result:** Compliant

*Test Mode: Transmitting*

**Low Voltage**

Frequency (MHz)	Antenna Output power (dBm)	Antenna Output power (mW)	Output power tolerance (%)
922.0	12.75	18.84	-5.8
922.6	12.73	18.75	-6.25
923.4	12.73	18.75	-6.25
Limit	13	20	-80 ~ +20

**Normal Voltage**

Frequency (MHz)	Antenna Output power (dBm)	Antenna Output power (mW)	Output power tolerance (%)
922.0	12.72	18.71	-6.45
922.6	12.74	18.79	-6.05
923.4	12.71	18.66	-6.70
Limit	13	20	-80 ~ +20

**High Voltage**

Frequency (MHz)	Antenna Output power (dBm)	Antenna Output power (mW)	Output power tolerance (%)
922.0	12.75	18.84	-5.8
922.6	12.74	18.79	-6.05
923.4	12.79	19.01	-4.95
Limit	13	20	-80 ~ +20

**Note:**

Declared power = 20mW

The maximum antenna gain is 2.81dBi

Antenna output power tolerance = (Antenna output power - declared power)/declared power\*100%



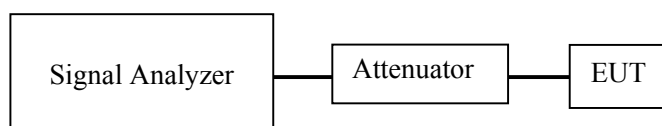
## § 6 ADJACENT CHANNEL LEAKGE POWER

### Limit

Adjacent channel  $\leq$  -15dBm

### Test Procedure

Measurement System Diagram



1. The EUT transmitting with maximum power level.
2. Measure the RRC filtered mean power.
3. Measure the RRC filtered mean power of the upper adjacent channels and the lower adjacent channels.

### Test Data

#### Environmental Conditions

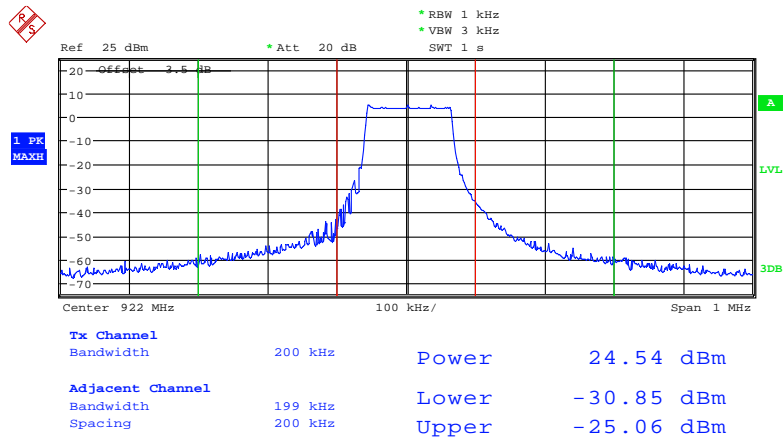
<b>Temperature:</b>	22 ° C
<b>Relative Humidity:</b>	55 %
<b>ATM Pressure:</b>	101.0 kPa

The testing was performed by George Zhong on 2020-04-14.

**Test Result:** Compliant

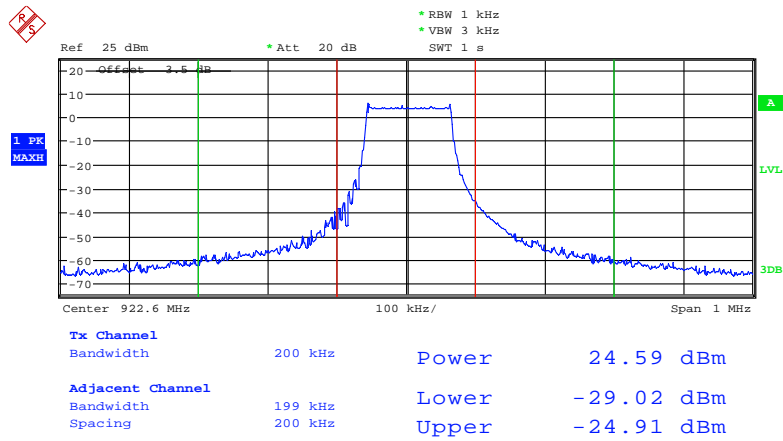
Voltage	Adjacent Channel	Low channel (dBm)	Middle channel (dBm)	High channel (dBm)	Limit (dBm)
Normal	Lower	-30.85	-29.02	-29.96	-15
	Upper	-25.06	-24.91	-25.35	
Low	Lower	-30.59	-29.11	-29.82	
	Upper	-25.14	-24.85	-25.27	
High	Lower	-30.47	-29.13	-29.90	
	Upper	-24.93	-24.88	-25.42	

Low channel



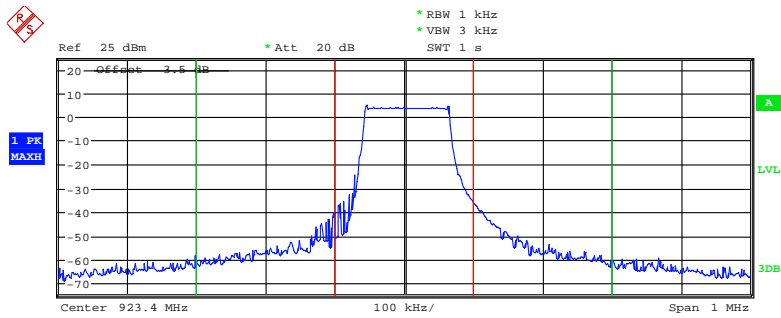
Date: 14.APR.2020 18:40:41

Middle channel



Date: 14.APR.2020 18:27:00

**High channel**



<b>Tx Channel</b>			
Bandwidth	200 kHz	Power	24.41 dBm
<b>Adjacent Channel</b>			
Bandwidth	199 kHz	Lower	-29.96 dBm
Spacing	200 kHz	Upper	-25.35 dBm

Date: 14.APR.2020 18:02:43

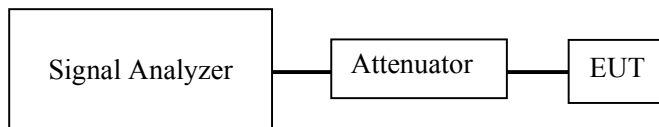
## § 7 RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

### Limit

30 - 710MHz;	$\leq -54\text{dBm}/100\text{kHz}$
710 - 900MHz;	$\leq -55\text{dBm}/1\text{MHz}$
900 - 915MHz;	$\leq -55\text{dBm}/100\text{kHz}$
915 - 930MHz;	$\leq -54\text{dBm}/100\text{kHz}$
930 - 1000MHz;	$\leq -55\text{dBm}/100\text{kHz}$
1000 - 5000MHz;	$\leq -47\text{dBm}/1\text{MHz}$

### Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The modulation state shall be “continuous receiving mode”.

Spectrum Analyzer Conditions

Frequency range: 30MHz-710MHz, RBW/VBW=100/100kHz  
Frequency range: 710MHz-900MHz, RBW/VBW=1/1MHz  
Frequency range: 900MHz-915MHz, RBW/VBW=100/100kHz  
Frequency range: 915MHz-930MHz, RBW/VBW=100/100kHz  
Frequency range: 930MHz-1000MHz, RBW/VBW=100/100kHz  
Frequency range: 1000MHz-5000MHz, RBW/VBW=1/1MHz

**Test Data****Environmental Conditions**

<b>Temperature:</b>	22 °C
<b>Relative Humidity:</b>	55 %
<b>ATM Pressure:</b>	101.0 kPa

The testing was performed by George Zhong on 2020-03-05 and 2020-04-14.

**Test Result:** Compliant

*Test Mode: Receiving (Middle channel was worst case)*

Frequency Band	Normal voltage	High voltage	Low voltage	Limit
Band I	-80.12	-80.63	-80.09	-54 dBm/100kHz
Band II	-73.68	-73.51	-73.20	-55 dBm/1MHz
Band III	-74.52	-74.84	-74.51	-55 dBm/100kHz
Band IV	-75.66	-75.64	-75.47	-54 dBm/100kHz
Band V	-74.25	-74.18	-74.48	-55 dBm/100kHz
Band VI	-72.98	-72.34	-72.51	-47 dBm/1MHz

Note:

Band I: 30MHz-710MHz, Limit is -54 dBm/100kHz

Band II: 710MHz-900MHz, Limit is -55 dBm/1MHz

Band III: 900MHz-915MHz, Limit is -55 dBm/100kHz

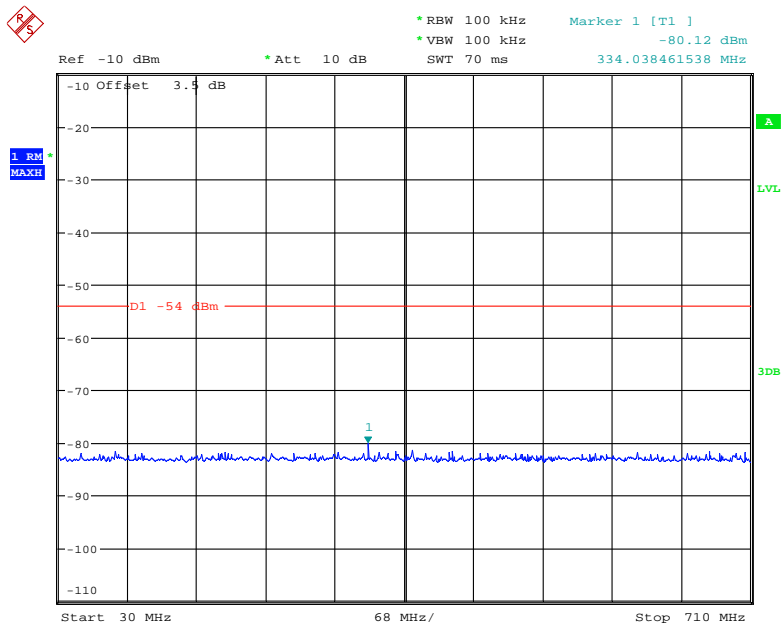
Band IV: 915MHz-930MHz, Limit is -54 dBm/100kHz

Band V: 930MHz- 1000MHz, Limit is -55 dBm/100kHz

Band VI: 1000MHz-5000MHz, Limit is -47 dBm/1MHz

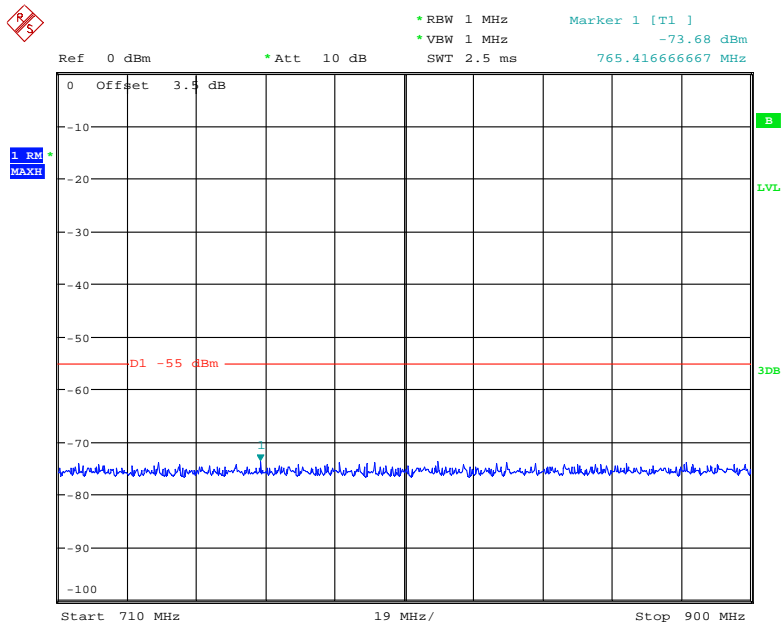
Please refer to the below plots for normal voltage test.

30 MHz ~ 710 MHz



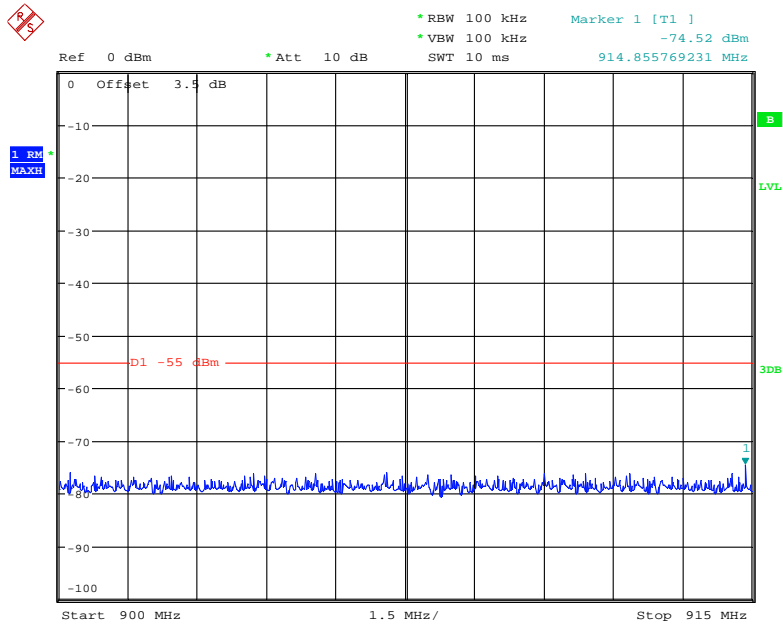
Date: 14.APR.2020 21:21:57

710 MHz ~ 900 MHz



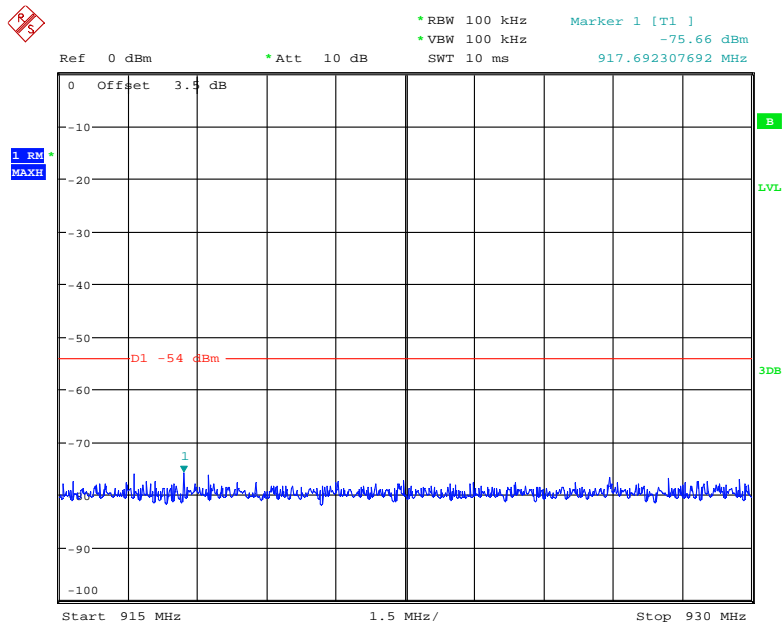
Date: 5.MAR.2020 22:24:20

### 900 MHz ~ 915MHz



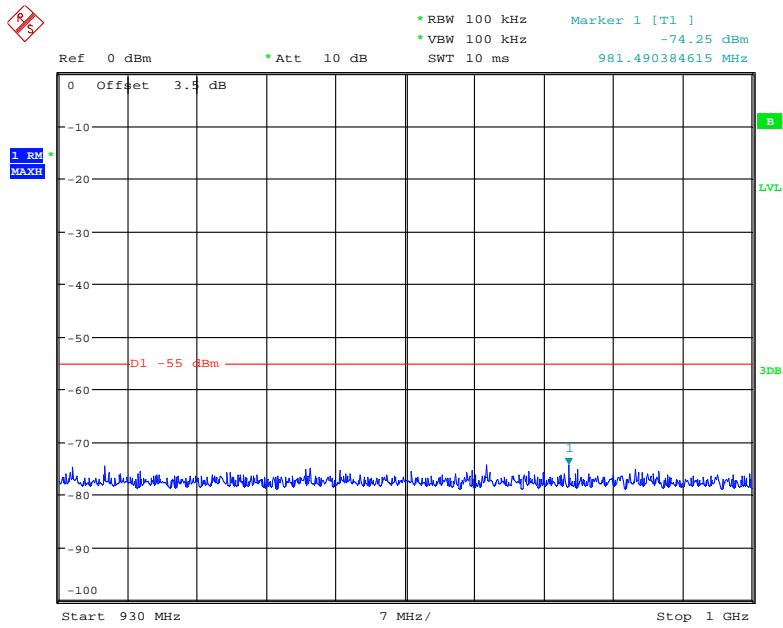
Date: 5.MAR.2020 22:25:01

### 915 MHz ~ 930 MHz



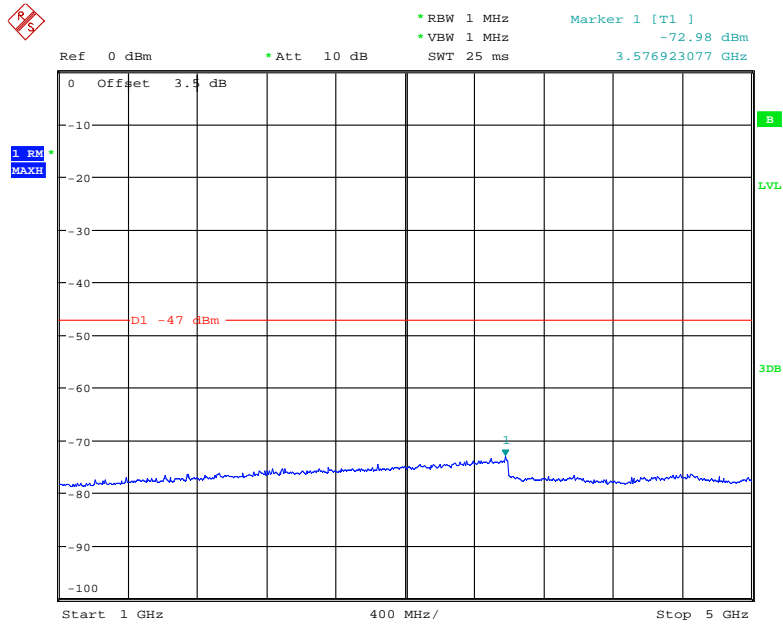
Date: 5.MAR.2020 22:25:41

### 930 MHz ~ 1 GHz



Date: 5.MAR.2020 22:26:29

### 1 GHz ~ 5 GHz



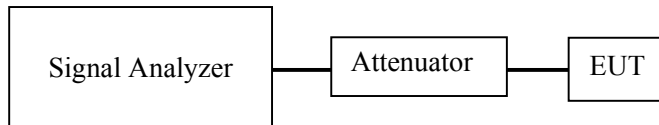
Date: 5.MAR.2020 22:26:55



## § 8 TRANSMITTING TIME RESTRICTIONS

### Test Procedure

Measurement System Diagram



Spectrum Analyzer Conditions

- Center Frequency: Frequency to be measured
- Span: 0 Hz
- RBW: 100kHz
- VBW: Same as the RBW
- Sweep time: 1s
- Log scal : 10dB/Div, Data points : 501points (400 points or more)
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak

Limit

Transmission time : ①4s or less \*2, ②0.4s or less \*3

Suspend time : ①50ms or more \*2, ②2ms or more \*3

\*2 When retransmitting within 4 seconds after discharging an radio wave first, it can transmit without a suspend time.(It restricts to the retransmission within applicable time by the transmission after performing the career sense for less than 128 μs or more.)

- \*3 Transmission time = 6ms or less; Suspend time = unnecessary

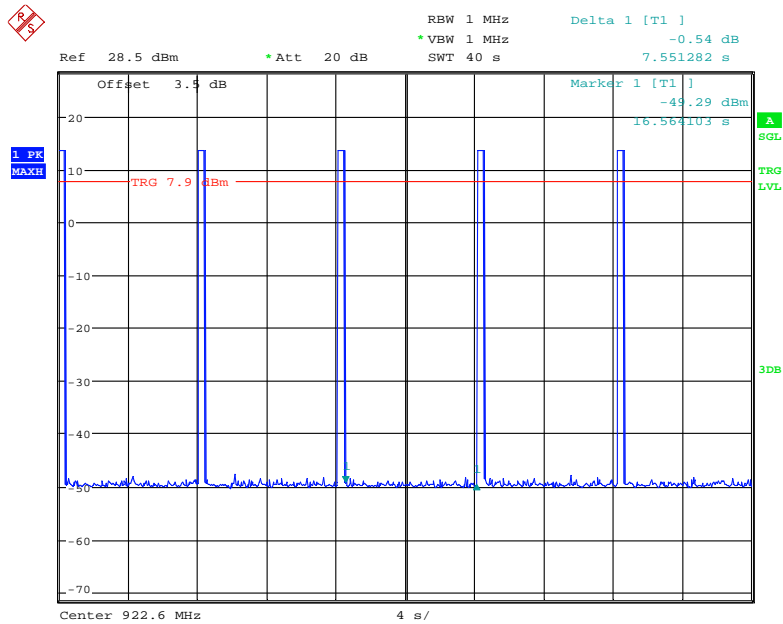
### Measurement Result

#### Environmental Conditions

<b>Temperature:</b>	3°C
<b>Relative Humidity:</b>	54 %
<b>ATM Pressure:</b>	101.0 kPa

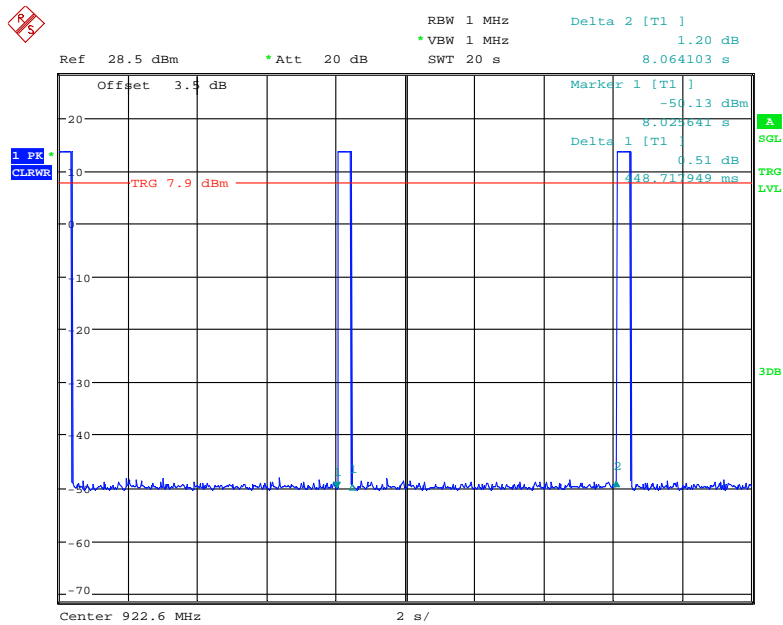
The testing was performed by George Zhong on 2020-03-11.

### Suspend Time



Date: 11.MAR.2020 20:35:54

### Transmitting Time



Date: 11.MAR.2020 20:42:44

Test Result: Good.

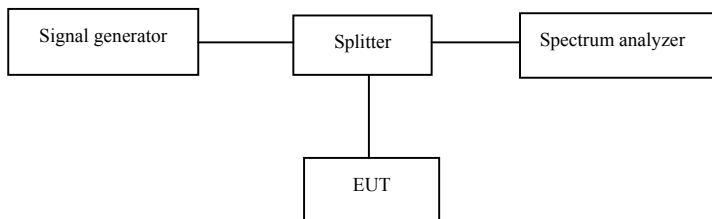
## § 9 CARRIER SENSE CAPABILITY

### Limit

EUT stop RF transmission signal after carrier inject to EUT

### Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The EUT state shall be receiving.

Test Procedure

1. SG adjusted the frequency as same as the EUT receiving channel and emitted the absence of modulation from SG and power level is above  $7\mu\text{V}$ .
2. Turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA: RBW/VBW=100/100kHz, Span=300kHz, trig=free run, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

**Test Result:** Compliant.

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## **CONSTRUCTION PROTECTION CONFIRMATION**

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### **Limit**

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

### **Confirmation Method**

For the Model: LGT92-LI, the EUT has superglue which make sure the device can't be opened easily. Please refer to the EUT photos.

For the Model: LGT92-AA, the EUT has screws which make sure the device can't be opened easily. Please refer to the EUT photos.

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