

FCC PART 15D MEASUREMENT AND TEST REPORT

For
RTX Hong Kong Ltd.

8/F Corporation Square, 8 Lam Lok Street, Kowloon Bay, Hong Kong

FCC ID: T7HR4027

Report Type: Class II Permissive Change	Product Type: Repeater, IP DECT Repeater, RFP 14 Repeater
Report Number: SZ1210625-25531E-00A2	
Report Date: 2021-08-25	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Repeater, IP DECT Repeater, RFP 14 Repeater
Tested Model	RTX4027
Multiple Model	D209, VCV1302, WAIR-REP-2021, 100dr IP-DECT Repeater, RFP 14 Repeater
Model Differences	Refer to the DoS letter
Frequency Range	1921.536-1928.448 MHz
Maximum conducted peak output power	19.88dBm
Modulation Technique	GFSK
Antenna Specification	1.0dBi(It is provided by the applicant)
Voltage Range	DC 5.5V or 5.0V from adapter
Date of Test	2021-07-01 to 2021-08-25
Sample serial number	SZ1210601-20825E-RFA2-S_831 (Assigned by BACL, Shenzhen)
Received date	2021-06-01
Sample/EUT Status	Good condition
Adapter 1 information	Model: S008ACM0550060 Input: AC 100-240V, 50/60Hz, 300mA Output: DC 5.5V, 600mA
Adapter 2 information	Model: S003GU0500060 Input: AC 100-240V~50/60Hz, 150mA Output: DC 5.0V, 600mA
Adapter 3 information	Model: S003ATU0500060 Input: AC 100-240V~50/60Hz, 0.15A Output: DC 5.0V, 0.6A

Objective

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart D, section 15.207, 15.315, 15.317, 15.319 and 15.323 rules. The EMI measurements were performed according to the measurement procedure described in ANSI C63.17 – 2013.

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart D, section 15.207, 15.315, 15.317, 15.319 and 15.323 rules.

This is a CIIPC application of the device; the differences between the original device and the current one are as follows:

- (1) Adding model numbers “VCV1302, WAIR-REP-2021, 100dr IP-DECT Repeater, RFP 14 Repeater”.
- (2) Changing the product name to “Repeater, IP DECT Repeater, RFP 14 Repeater”.
- (3) Adding trade names “VoCoVo, Mitel, Wildix, iPECS”.
- (4) Update the PCB board from 2-layer to 4-layer.
- (5) Change PCB Antenna shape but the antenna gain was not changed.
- (6) Add one color of the appearance.

Based on above differences, it will affected partial test data, so the changed items were performed.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.17 - 2013, American National Standard Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) 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

Item	Uncertainty
AC Power Lines Conducted Emissions	$\pm 1.95\text{dB}$
RF conducted test with spectrum	$\pm 1.5\text{dB}$
Occupied Bandwidth	$\pm 5\%$
Temperature	$\pm 3^{\circ}\text{C}$
Humidity	$\pm 6\%$
Supply voltages	$\pm 0.4\%$
All emissions, radiated	$\pm 4.88\text{dB}$

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 test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 342867, the FCC Designation No. : CN1221.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0023.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured to testing mode which is provided by the manufacturer.

Equipment Modifications

No modification was made to the EUT tested.

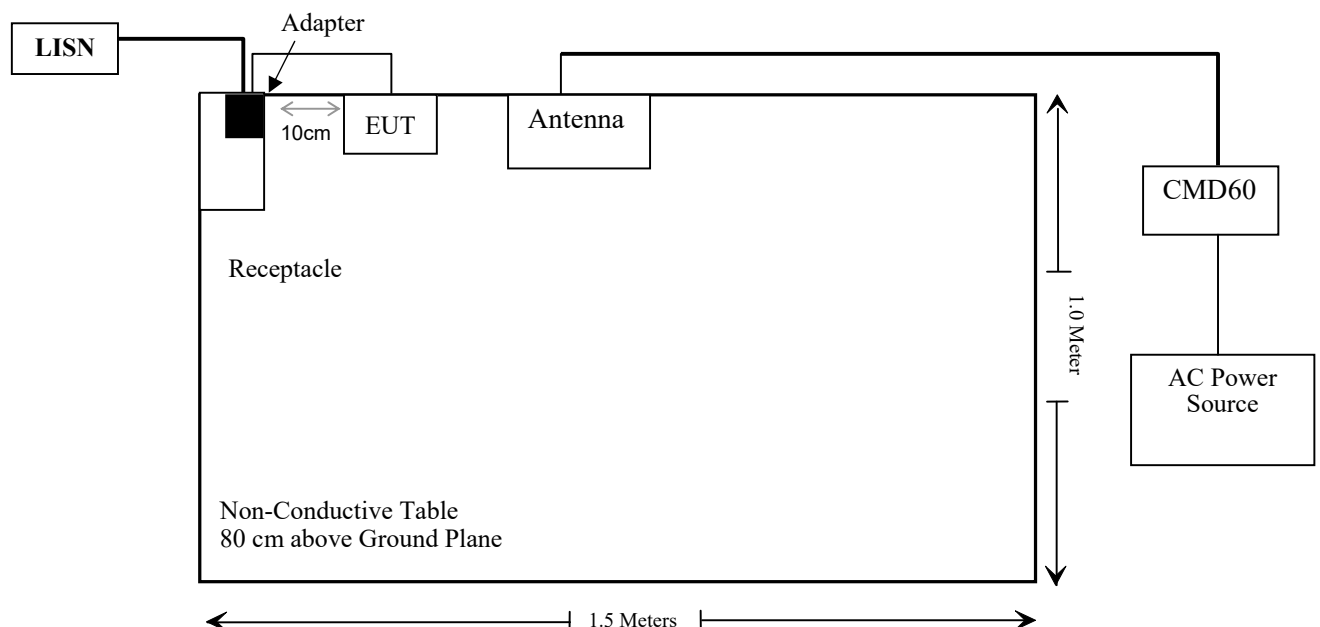
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Digital Radio Communication Tester	CMD60	829902/026

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielded Un-detachable DC Cable	1.8	EUT	Adapter

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 15.319 (i) & 2.1091	Maximum Permissible Exposure(MPE)	Compliant
§ 15.317, § 15.203	Antenna Requirement	Compliant
§ 15.315, § 15.207	Conducted Emission	Compliant
§ 15.323 (a)	Emission Bandwidth	Compliant*
§ 15.319 (c)	Peak Transmit Power	Compliant
§ 15.319 (d)	Power Spectral Density	Compliant*
§ 15.323 (d)	Emission Inside and Outside the sub-band	Compliant
§ 15.319 (g)	Radiated Emission	Not Applicable
§ 15.323 (f)	Frequency Stability	Compliant*
§ 15.323 (c)(e) & 15.319 (f)	Specific Requirements for UPCS	Compliant*

Not Applicable: EUT is compliance with 15.323 (d).

Compliant*: Please referred to report No.: RSZ200619003-00A1, which was tested by Bay Area Compliance Laboratories Corp. (Shenzhen).

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/07/06	2021/07/05
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2021/07/06	2022/07/05
Rohde & Schwarz	LISN	ENV216	101613	2020/07/06	2021/07/05
Rohde & Schwarz	LISN	ENV216	101613	2021/07/06	2022/07/05
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2020/11/29	2021/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
RF Conducted test					
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2021/04/02	2022/04/01
Unknown	RF Cable	Unknown	2301 276	2020/11/29	2021/11/28
Unknown	RF Cable	Unknown	0501 067	2020/11/29	2021/11/28
Weinschel	Power divider	1515	RH386	2021/04/20	2022/04/20
Rohde & Schwarz	Digital Radio Communication Tester	CMD60	830861/029	2021/07/06	2022/07/05

* **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).

§1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)**Applicable Standard**

According to FCC §15.319(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	842/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

MPE Calculation

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

Where: S = power density (in appropriate units, e.g. mW/cm²);

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

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

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)			
1921.536 - 1928.448	1.0	1.26	20.0	100.0	20	0.025	1.0

Note: the tune up conducted power was declared by the applicant.

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

Result: Compliance

§ 15.317, § 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.

Antenna Connector Construction

The EUT has two internal antennas arrangement which were permanently attached and the gain is 1.0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

§ 15.315, § 15.207 CONDUCTED EMISSIONS

Applicable Standard

FCC§15.315, an unlicensed PCS device that is designed to be connected to the public utility (AC) power line must meet the limits specified in § 15.207.

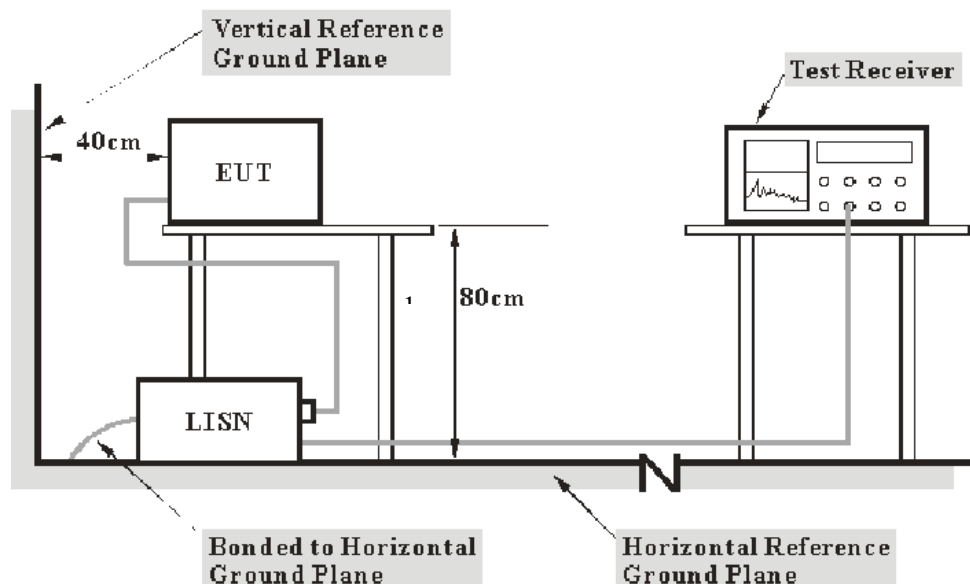
A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz-30 MHz, shall not exceed the limits in the below table.

Unless the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in below table. The more stringent limit applies at the frequency range boundaries.

Table - AC Power Lines Conducted Emission Limits		
Frequency range (MHz)	Conducted limit (dBμV)	
	Quasi-Peak	Average**
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Note: *Decreases with the logarithm of the frequency
 ** A linear average detector is required

EUT Setup



- Note:** 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.315, FCC 15.207 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.

The adapter was connected to a 120 VAC/60 Hz power source.

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

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

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding the Outlet Cable Loss, LISN Insertion Loss, Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = Outlet Cable Loss + LISN Insertion Loss + Cable Loss + Transient Limiter Attenuation

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

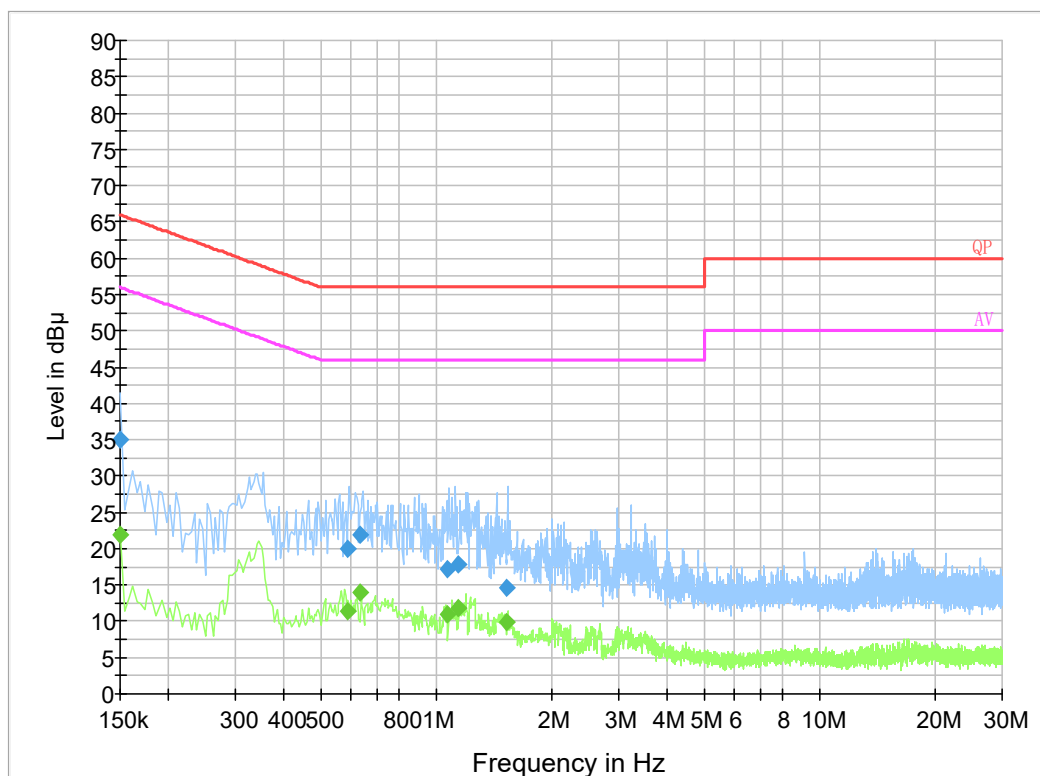
Temperature:	25 °C
Relative Humidity:	70 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-07-01 and 2021-07-18.

EUT operation mode: Transmitting

Adapter 1 (Model: S008ACM0550060)

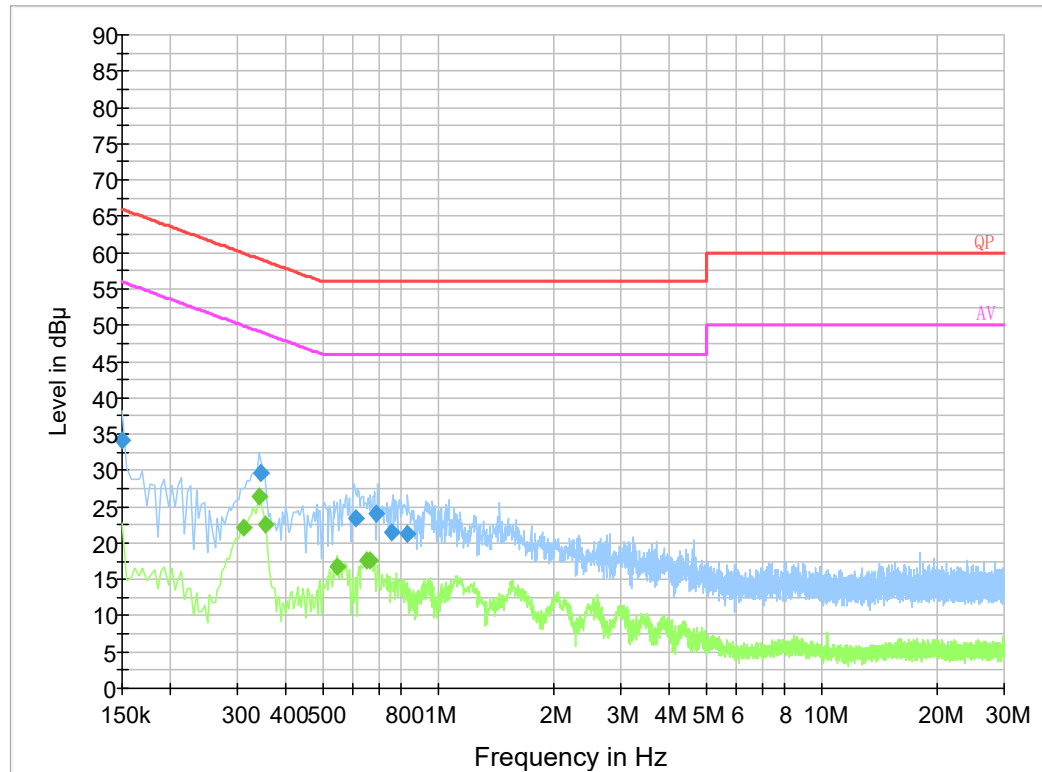
AC 120V/60 Hz, Line

**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	35.1	0.200	L1	19.8	30.9	66.0
0.589090	20.0	9.000	L1	19.8	36.0	56.0
0.636310	22.0	9.000	L1	19.8	34.0	56.0
1.073710	17.1	9.000	L1	19.9	38.9	56.0
1.141110	17.8	9.000	L1	19.8	38.2	56.0
1.526810	14.6	9.000	L1	19.8	41.4	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	21.9	9.000	L1	19.8	34.1	56.0
0.589090	11.4	9.000	L1	19.8	34.6	46.0
0.636310	14.1	9.000	L1	19.8	31.9	46.0
1.073710	11.0	9.000	L1	19.9	35.0	46.0
1.141110	11.9	9.000	L1	19.8	34.1	46.0
1.526810	9.8	9.000	L1	19.8	36.2	46.0

AC 120V/60 Hz, Neutral**Final Result 1**

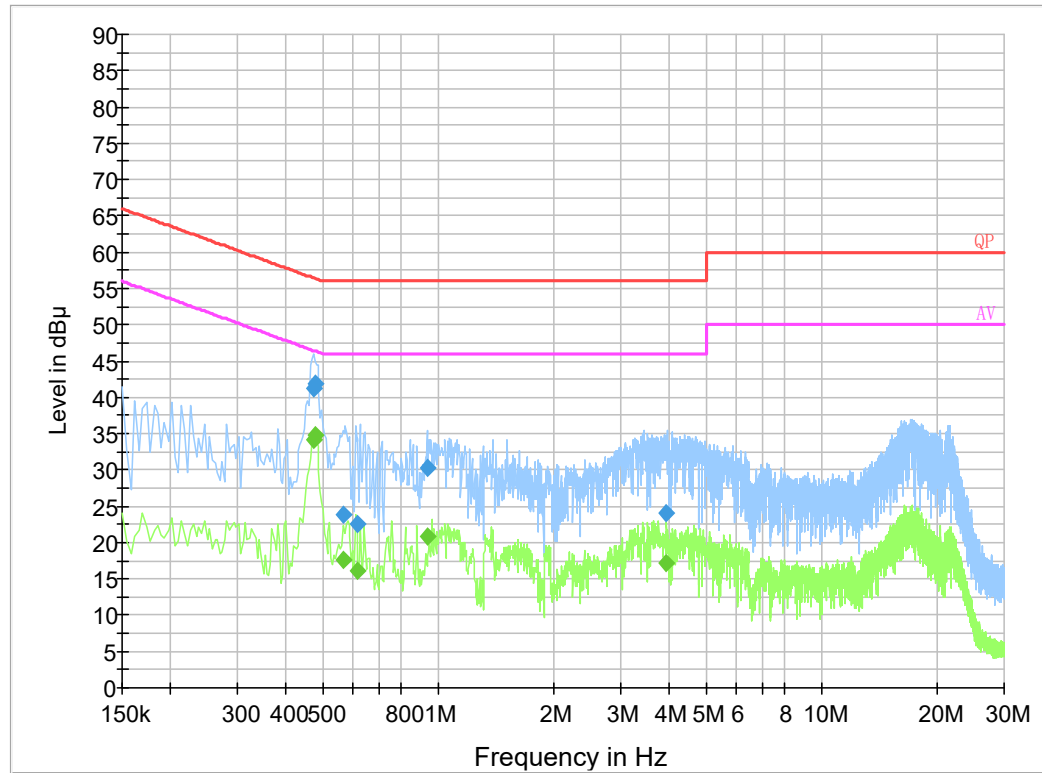
Frequency (MHz)	QuasiPeak (dB μV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.150000	34.1	0.200	N	19.8	31.9	66.0
0.344870	29.6	9.000	N	19.8	29.5	59.1
0.612910	23.4	9.000	N	19.8	32.6	56.0
0.687530	24.0	9.000	N	19.8	32.0	56.0
0.754570	21.6	9.000	N	19.8	34.4	56.0
0.833490	21.4	9.000	N	19.8	34.6	56.0

Final Result 2

Frequency (MHz)	Average (dB μV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.310000	22.1	9.000	N	19.7	27.9	50.0
0.342000	26.5	9.000	N	19.8	22.7	49.2
0.354000	22.5	9.000	N	19.9	26.4	48.9
0.546000	16.8	9.000	N	19.8	29.2	46.0
0.650000	17.7	9.000	N	19.8	28.3	46.0
0.662000	17.5	9.000	N	19.8	28.5	46.0

Adapter 2 (Model: S003GU0500060)

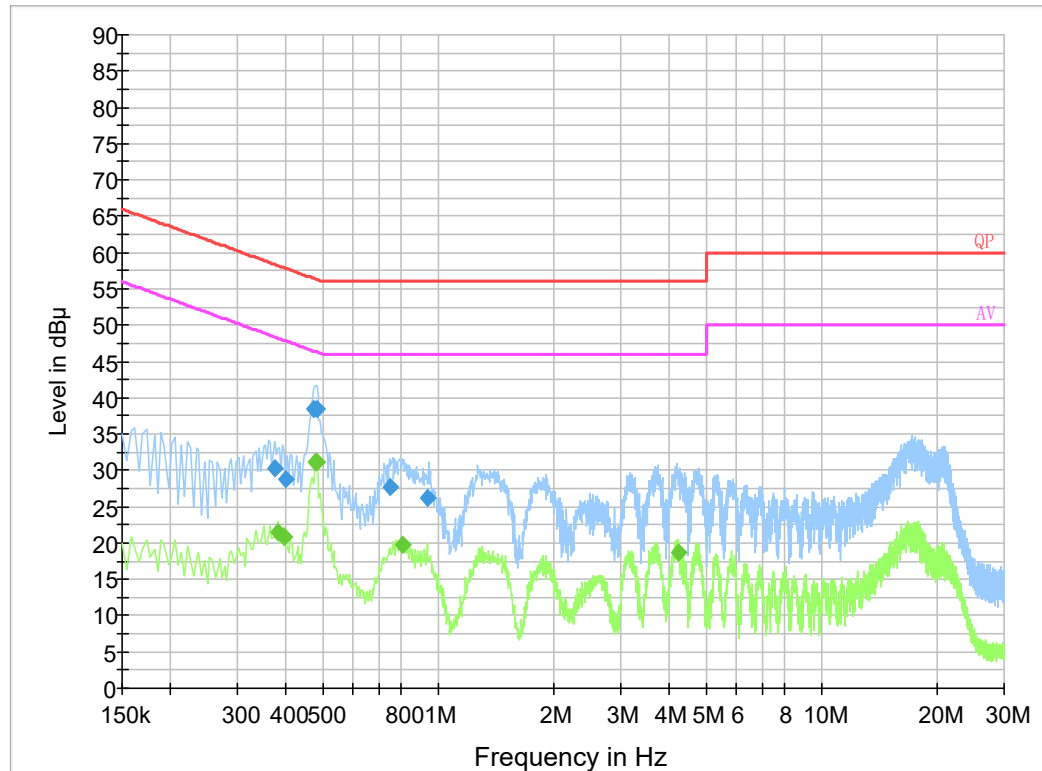
AC 120V/60 Hz, Line

**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.474890	41.2	9.000	L1	19.8	15.2	56.4
0.478710	41.8	9.000	L1	19.8	14.6	56.4
0.565390	23.7	9.000	L1	19.8	32.3	56.0
0.616610	22.7	9.000	L1	19.8	33.3	56.0
0.943930	30.4	9.000	L1	19.8	25.6	56.0
3.918510	24.1	9.000	L1	19.9	31.9	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.474890	34.1	9.000	L1	19.8	12.3	46.4
0.478710	34.8	9.000	L1	19.8	11.6	46.4
0.565390	17.6	9.000	L1	19.8	28.4	46.0
0.616610	16.2	9.000	L1	19.8	29.8	46.0
0.943930	20.7	9.000	L1	19.8	25.3	46.0
3.918510	17.2	9.000	L1	19.9	28.8	46.0

AC 120V/60 Hz, Neutral**Final Result 1**

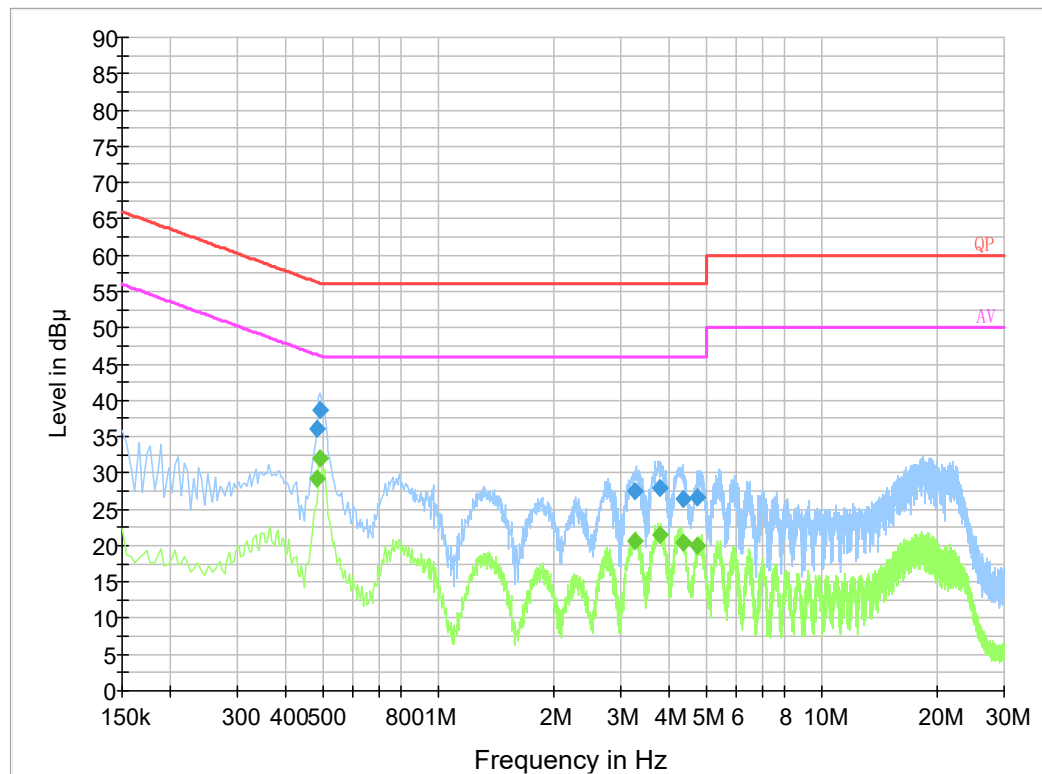
Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.376390	30.3	9.000	N	19.8	28.1	58.4
0.399910	28.9	9.000	N	19.8	29.0	57.9
0.474830	38.4	9.000	N	19.8	18.0	56.4
0.482770	38.5	9.000	N	19.8	17.8	56.3
0.750570	27.7	9.000	N	19.8	28.3	56.0
0.943810	26.2	9.000	N	19.8	29.8	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.382000	21.4	9.000	N	19.8	26.8	48.2
0.398000	20.8	9.000	N	19.8	27.1	47.9
0.478000	31.1	9.000	N	19.8	15.3	46.4
0.482000	31.0	9.000	N	19.8	15.3	46.3
0.810000	19.8	9.000	N	19.8	26.2	46.0
4.246000	18.8	9.000	N	19.9	27.2	46.0

Adapter 3 (Model: S003ATU0500060)

AC 120V/60 Hz, Line

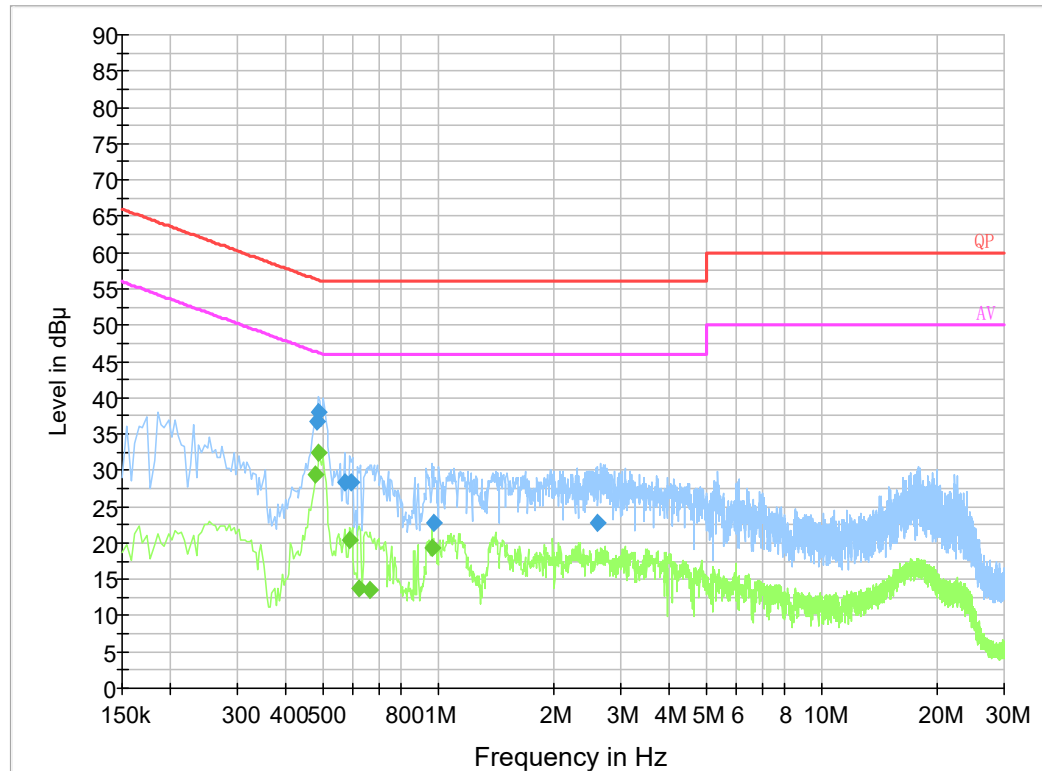


Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.485170	36.2	9.000	L1	19.8	20.1	56.3
0.494590	38.7	9.000	L1	19.8	17.4	56.1
3.264530	27.5	9.000	L1	19.9	28.5	56.0
3.789090	28.0	9.000	L1	19.9	28.0	56.0
4.376810	26.4	9.000	L1	19.9	29.6	56.0
4.754510	26.6	9.000	L1	19.9	29.4	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.485170	29.2	9.000	L1	19.8	17.1	46.3
0.494590	32.0	9.000	L1	19.8	14.1	46.1
3.264530	20.5	9.000	L1	19.9	25.5	46.0
3.789090	21.5	9.000	L1	19.9	24.5	46.0
4.376810	20.5	9.000	L1	19.9	25.5	46.0
4.754510	19.9	9.000	L1	19.9	26.1	46.0

AC 120V/60 Hz, Neutral**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.482830	36.8	9.000	N	19.8	19.5	56.3
0.486710	37.9	9.000	N	19.8	18.3	56.2
0.569450	28.3	9.000	N	19.8	27.7	56.0
0.593030	28.3	9.000	N	19.8	27.7	56.0
0.979510	22.9	9.000	N	19.8	33.1	56.0
2.618130	22.7	9.000	N	19.8	33.3	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.478000	29.5	9.000	N	19.8	16.9	46.4
0.490000	32.4	9.000	N	19.8	13.8	46.2
0.590000	20.5	9.000	N	19.8	25.5	46.0
0.622000	13.7	9.000	N	19.8	32.3	46.0
0.666000	13.5	9.000	N	19.8	32.5	46.0
0.966000	19.3	9.000	N	19.8	26.7	46.0

FCC§15.319 (c) - PEAK TRANSMIT POWER

Applicable Standard

The peak power output as measured over an interval of time equal to the frame rate or transmission burst of the device under all conditions of modulation. Usually this parameter is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used[47 CFR 15, subpart D, 15.303].

The peak transmit power is according to ANSI C63.17-2013 §6.1.2

Per FCC Part15.319 (c) Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in hertz. Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

Per FCC Part15.319 (e), the peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3 dBi.

Calculation of Peak Transmit Power Limit:

$$\text{Peak Transmit Power Limit} = 100\mu\text{W} \times (\text{EBW})^{1/2}$$

EBW is the transmit emission bandwidth in Hz determined in the other test item:

Test Procedure

Using the manufacturer's information on occupied bandwidth set the spectrum analyzer as follows:

RBW	≥ Emission bandwidth
Video bandwidth	≥ RBW
Span	Zero
Center frequency	Nominal center frequency of channels
Amplitude scale	Log (linear may be used if analyzer has sufficient linear dynamic range and accuracy)
Detection	Peak detection
Trigger	Video
Sweep rate	Sufficiently rapid to permit the transmit pulse to be resolved accurately

Test Data

Environmental Conditions

Temperature:	28.3 °C
Relative Humidity:	59 %
ATM Pressure:	101.0 kPa

The testing was performed by Blaker Zhang on 2021-08-24.

Test mode: Transmitting

Test Result: Pass

Please refer to the following table and plots.

Antenna 1

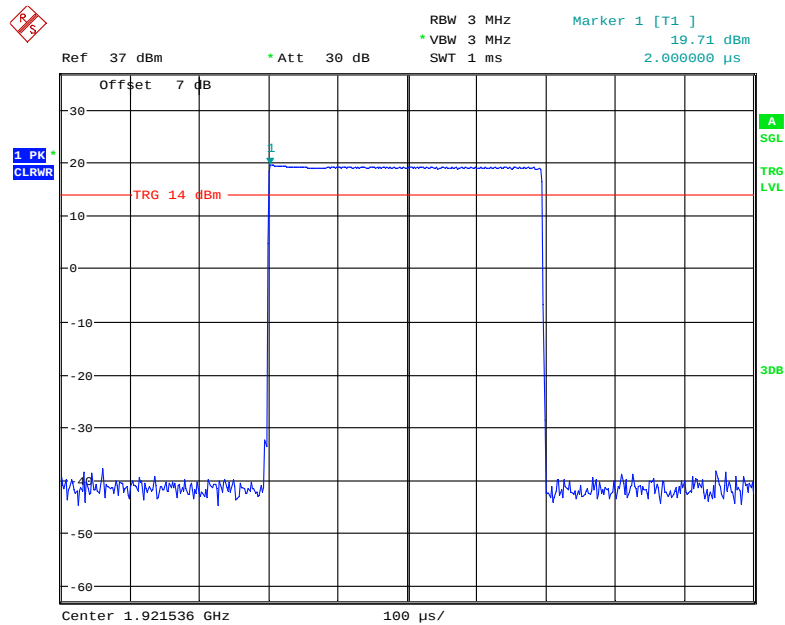
Channel	Frequency (MHz)	Peak Transmit Power (dBm)	Limit (dBm)
Low	1921.536	19.71	20.69
Middle	1924.992	19.79	20.71
High	1928.448	19.88	20.80
$EBW_{\text{Low channel}} = 1375000\text{Hz}$, $EBW_{\text{Middle channel}} = 1389000\text{ Hz}$, $EBW_{\text{High channel}} = 1447000\text{ Hz}$ Peak Transmit Power Limit = $100(EBW)^{1/2} \mu\text{W}$			

Antenna 2

Channel	Frequency (MHz)	Peak Transmit Power (dBm)	Limit (dBm)
Low	1921.536	19.56	20.69
Middle	1924.992	19.68	20.71
High	1928.448	19.83	20.80
$EBW_{\text{Low channel}} = 1375000\text{Hz}$, $EBW_{\text{Middle channel}} = 1389000\text{ Hz}$, $EBW_{\text{High channel}} = 1447000\text{ Hz}$ Peak Transmit Power Limit = $100(EBW)^{1/2} \mu\text{W}$			

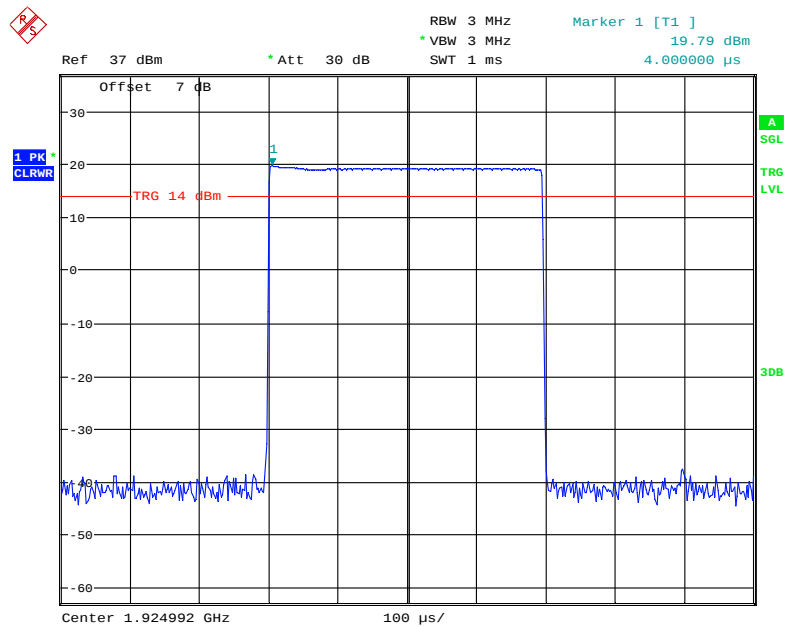
Antenna 1

Low Channel



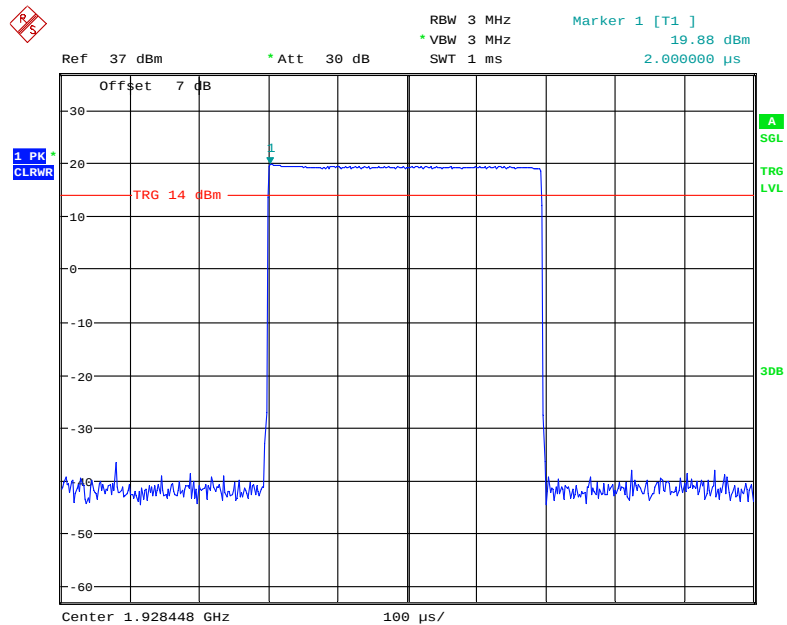
Date: 24.AUG.2021 23:44:45

Middle Channel



Date: 24.AUG.2021 23:36:31

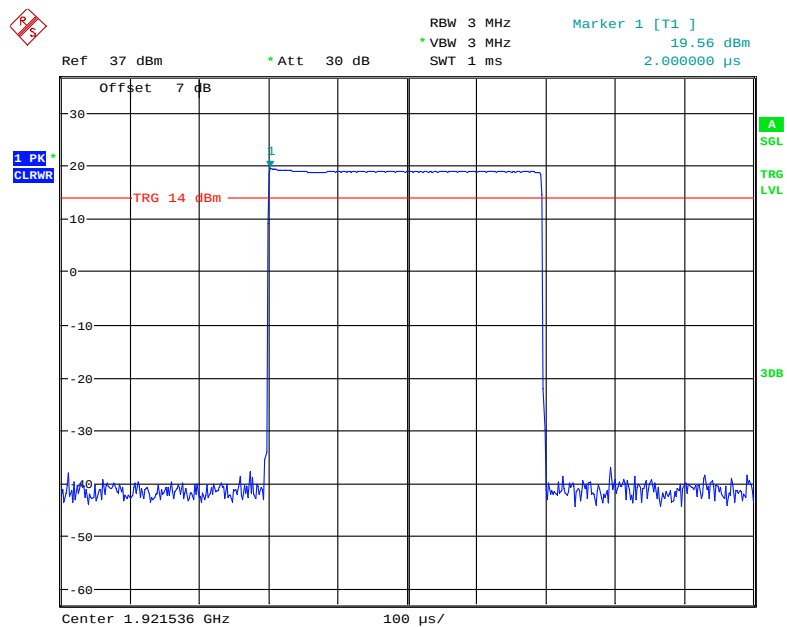
High Channel



Date: 24.AUG.2021 23:41:04

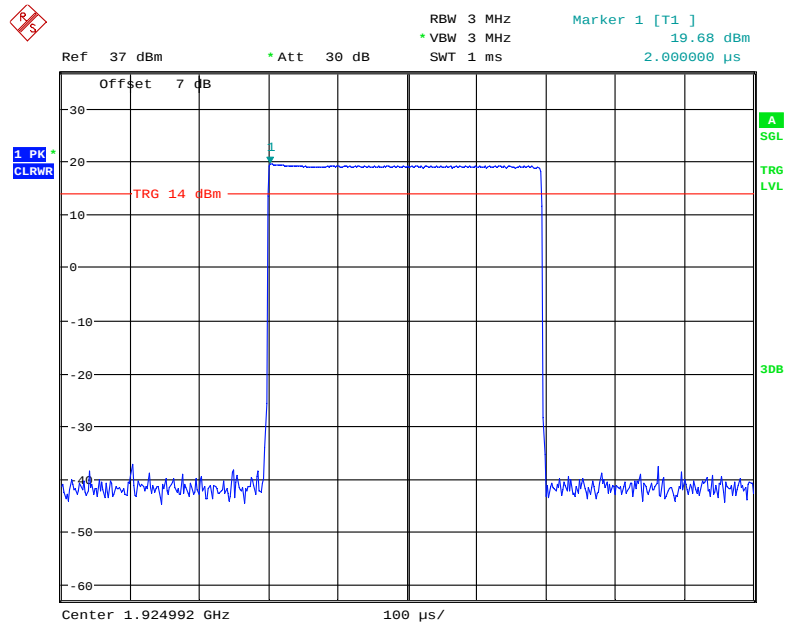
Antenna 2

Low Channel



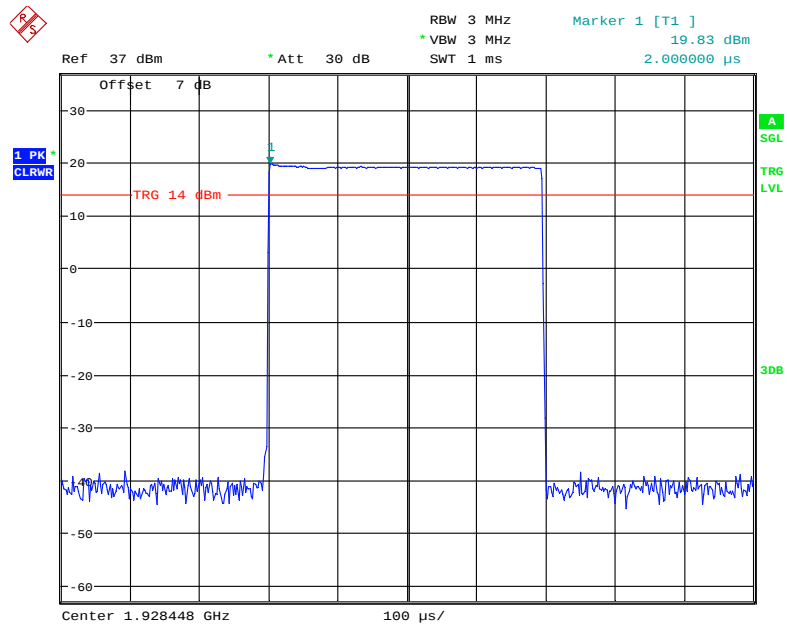
Date: 24.AUG.2021 23:43:49

Middle Channel



Date: 24.AUG.2021 23:43:12

High Channel



Date: 24.AUG.2021 23:41:28

FCC§15.323 (d) - EMISSION INSIDE AND OUTSIDE THE SUB-BAND**Applicable Standard**

Emissions inside the sub-band must comply with the following emission mask:

1. In the bands between 1B and 2B measured from the center of the emission bandwidth the total power emitted by the device shall be at least 30 dB below the transmit power permitted for that device;
2. in the bands between 2B and 3B measured from the center of the emission bandwidth the total power emitted by an intentional radiator shall be at least 50 dB below the transmit power permitted for that radiator;
3. in the bands between 3B and the sub-band edge the total power emitted by an intentional radiator in the measurement bandwidth shall be at least 60 dB below the transmit power permitted for that radiator.

Where B = emission bandwidth

Emission Outside the sub-band shall be attenuated below a reference power of 112 mw (20.5 dBm) as follows:

1. 30 dB between the sub-band and 1.25 MHz above or below the sub-band;
2. 50 dB between 1.25 and 2.5 MHz above or below the sub-band;
3. 60 dB at 2.5 MHz or greater above or below the sub-band.

Test Procedure

According to ANSI C63.17.2013 Clause 6.1.6.

Test Data**Environmental Conditions**

Temperature:	28.3 °C
Relative Humidity:	59 %
ATM Pressure:	101.0 kPa

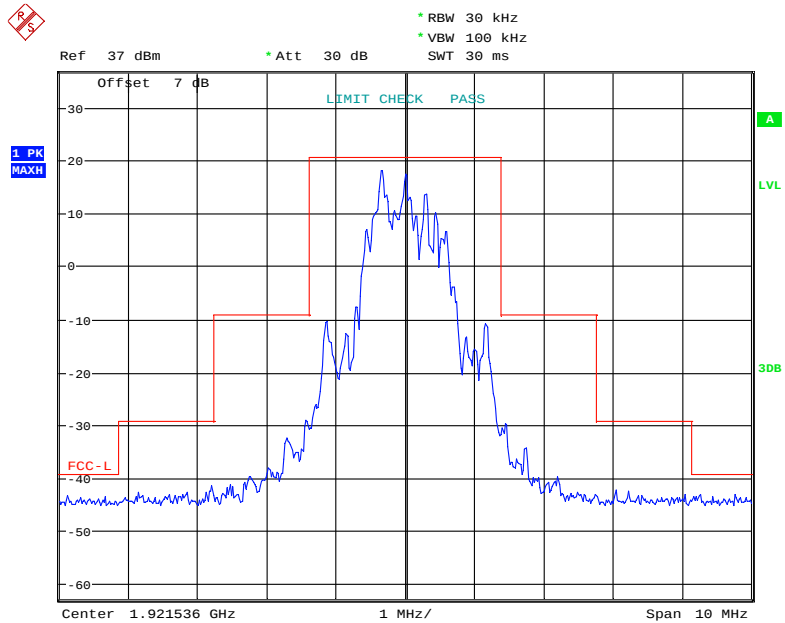
The testing was performed by Blaker Zhang on 2021-08-24 and 2021-08-25.

Test mode: Transmitting

Test Result: Pass

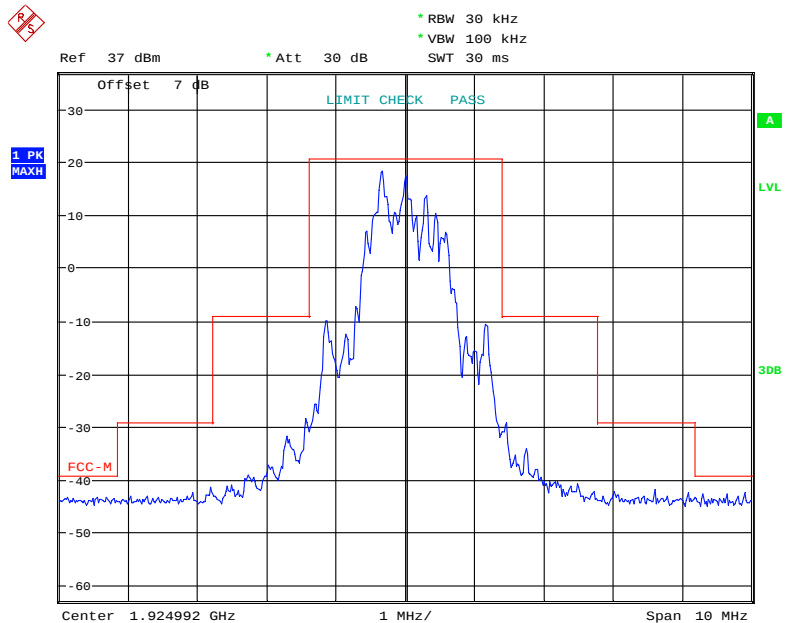
Please refer to following plots

Low Channel (Unwanted Emission inside the Sub-band)



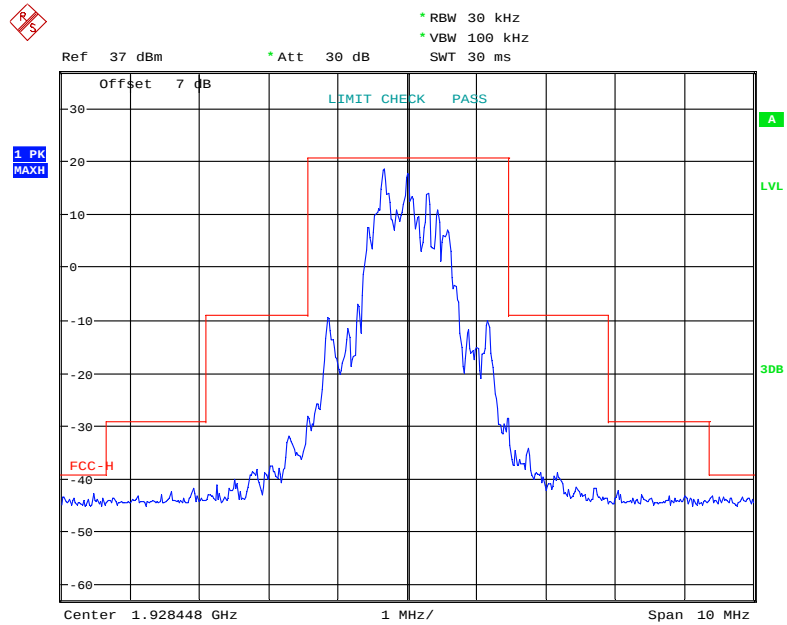
Date: 25.AUG.2021 00:02:39

Middle Channel (Unwanted Emission inside the Sub-band)



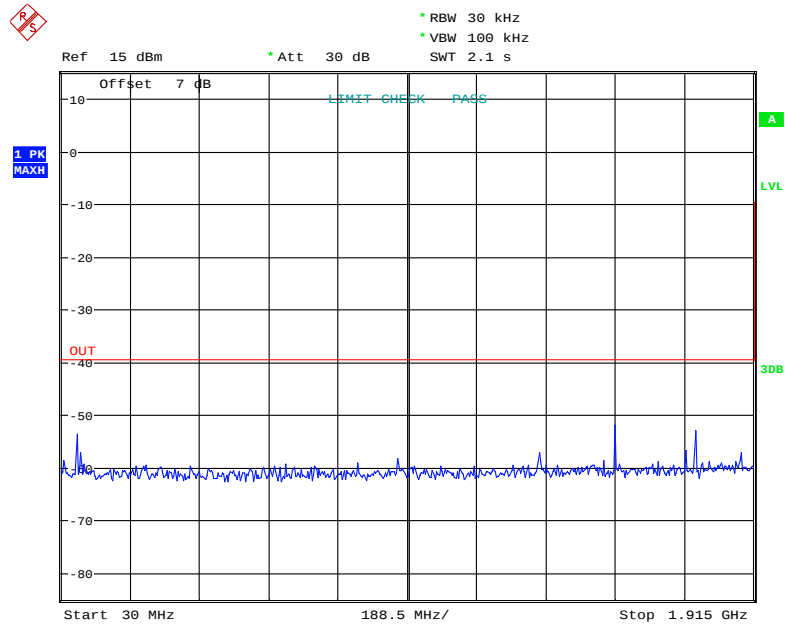
Date: 24.AUG.2021 23:56:52

High Channel (Unwanted Emission inside the Sub-band)

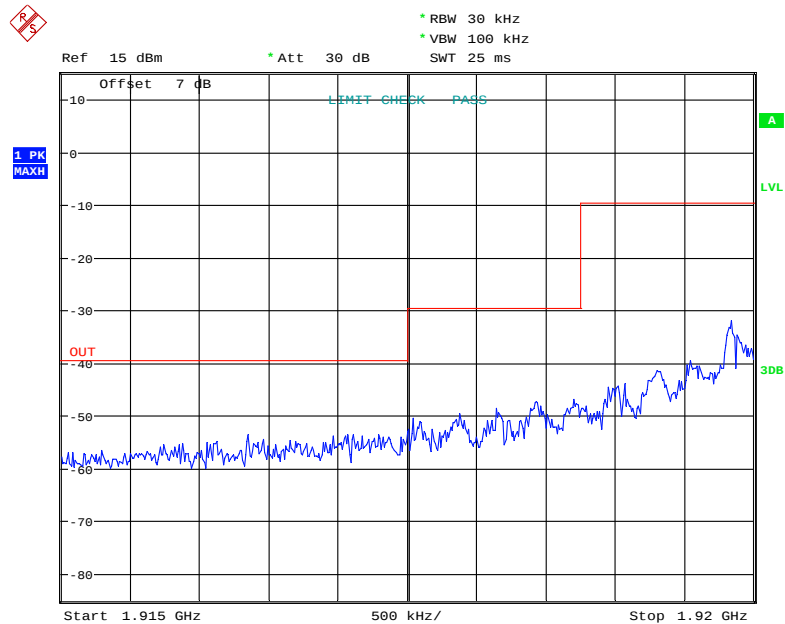


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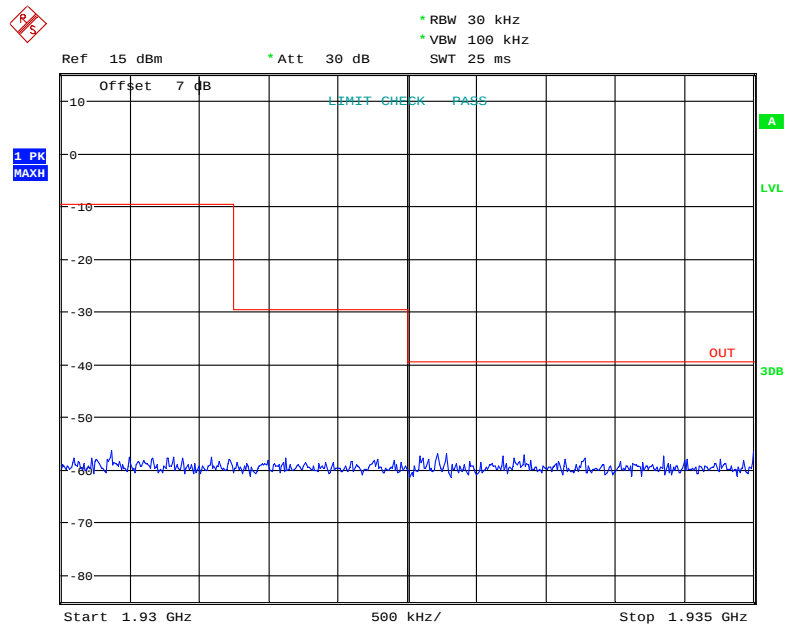
Low Channel (Unwanted Emission outside the Sub-band)



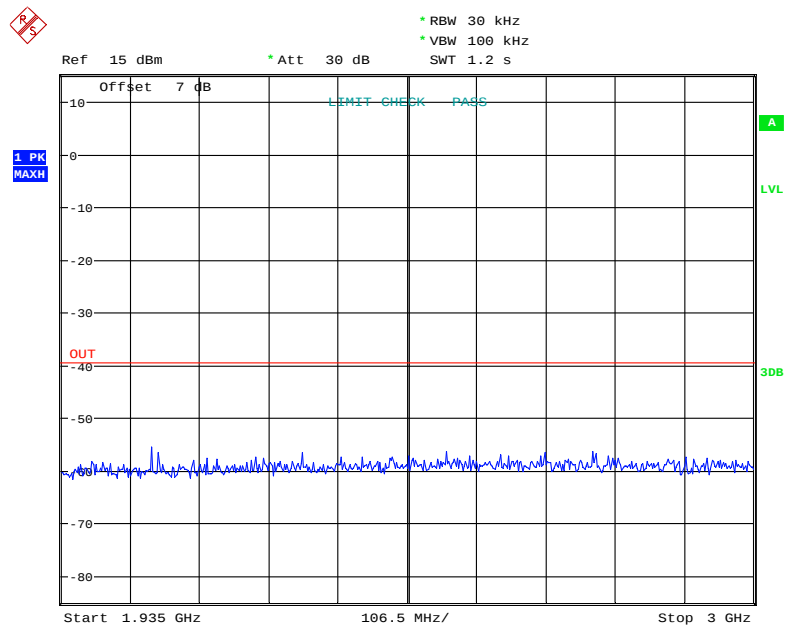
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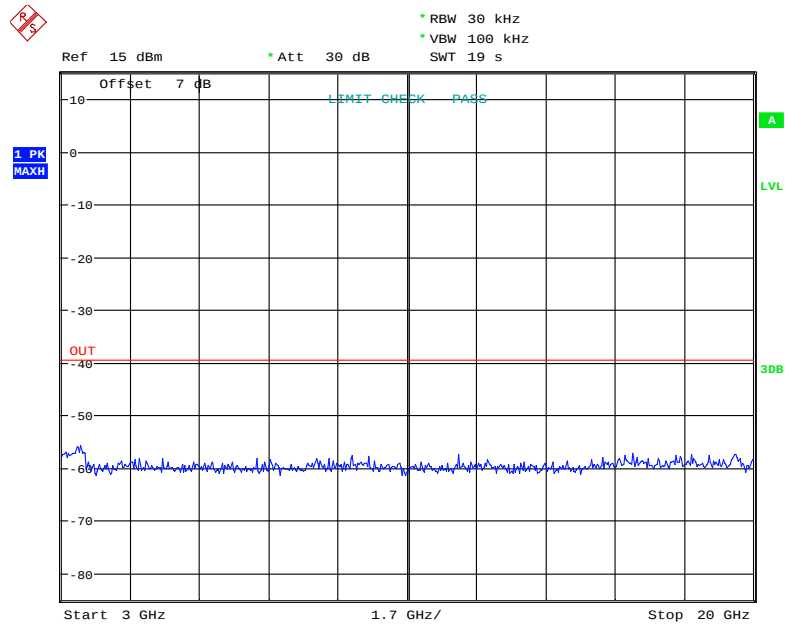
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Date: 25.AUG.2021 00:04:07

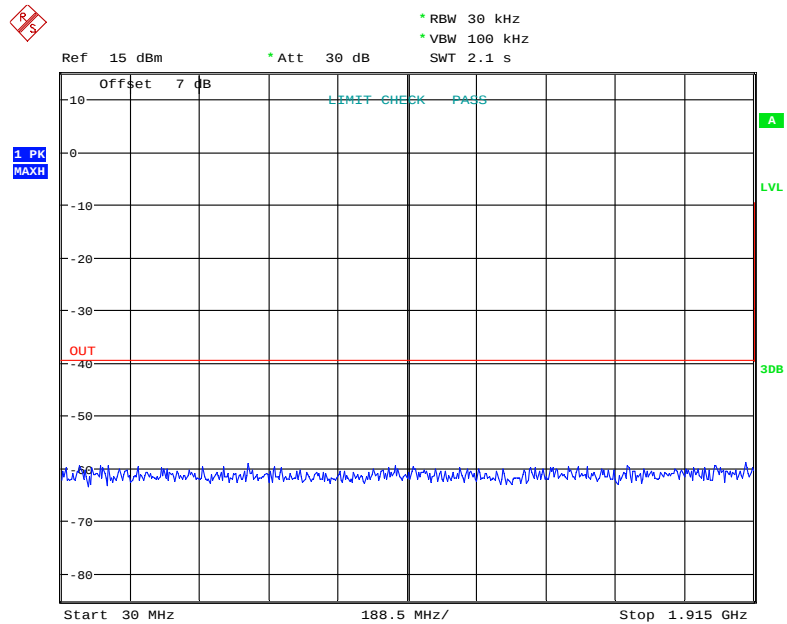


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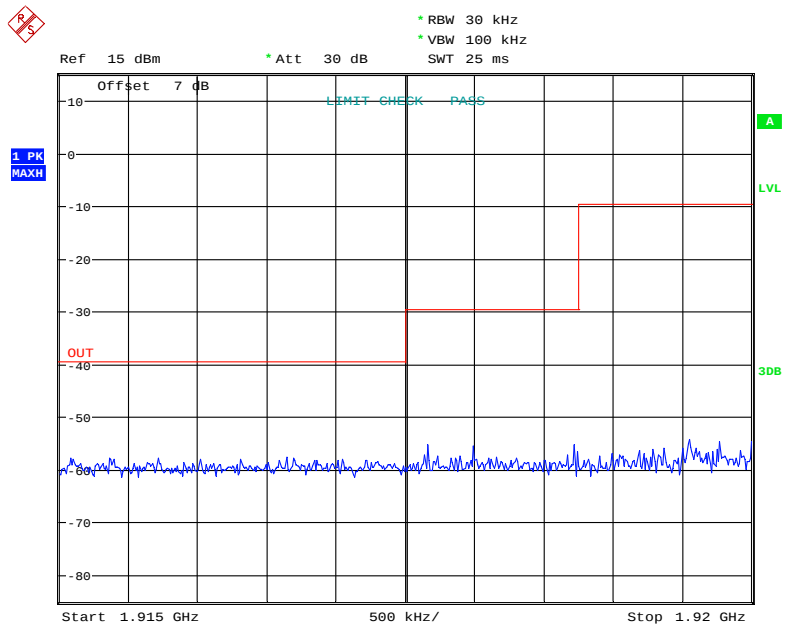


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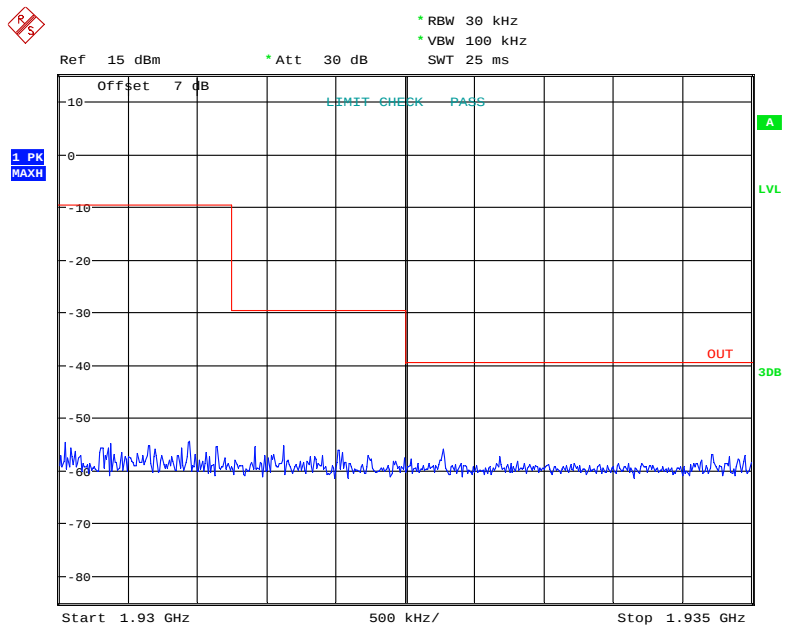
Middle Channel (Unwanted Emission outside the Sub-band)



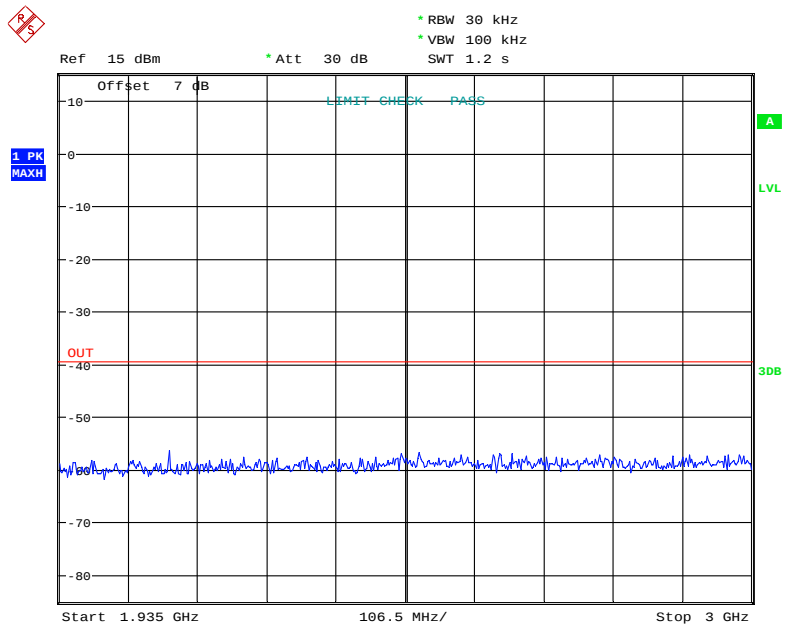
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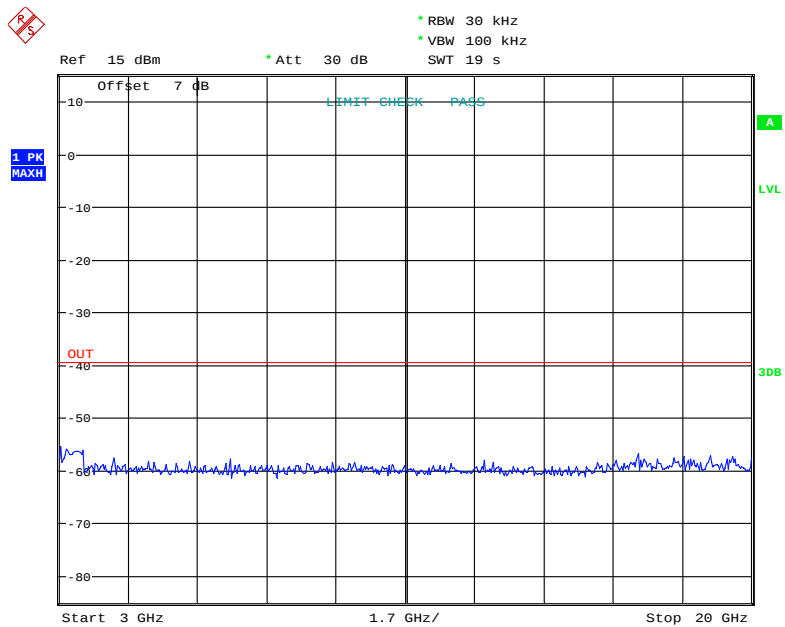
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Date: 25.AUG.2021 00:08:59

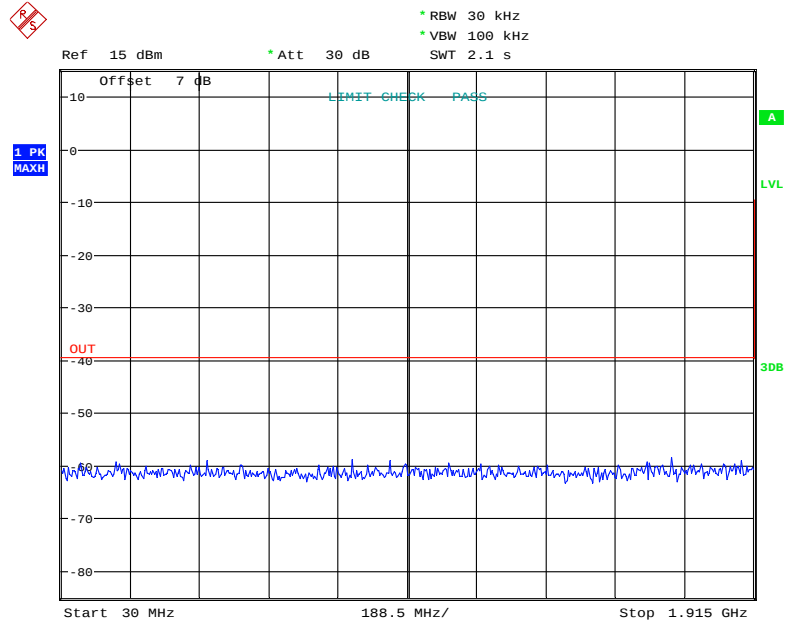


Date: 25.AUG.2021 00:08:04

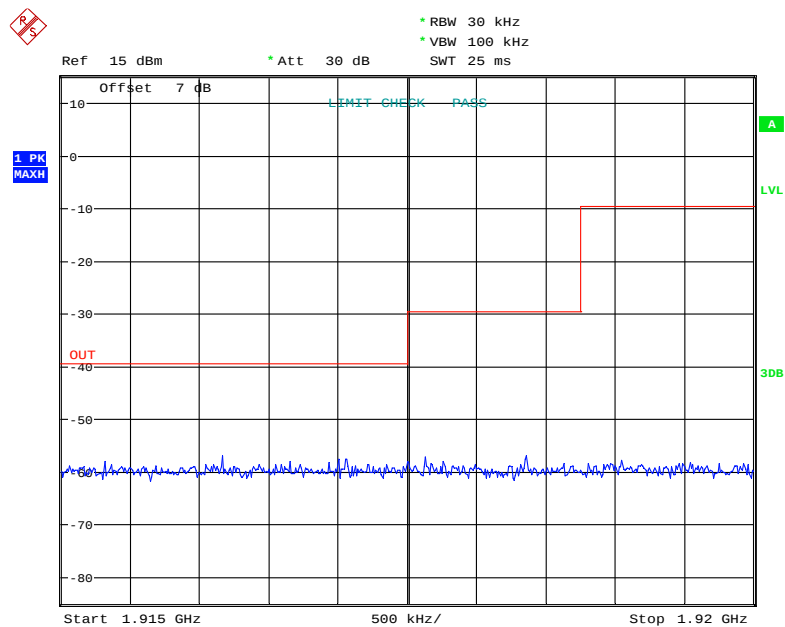


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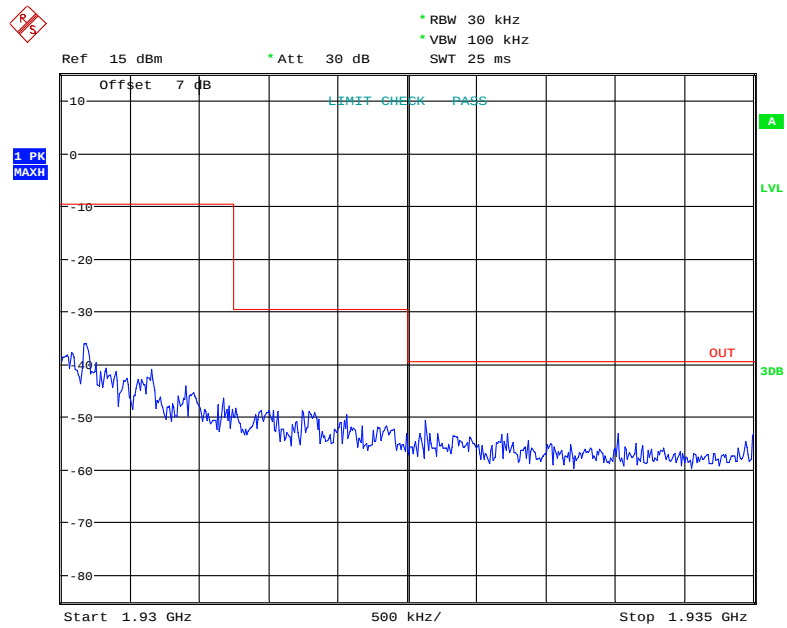
High Channel (Unwanted Emission outside the Sub-band)



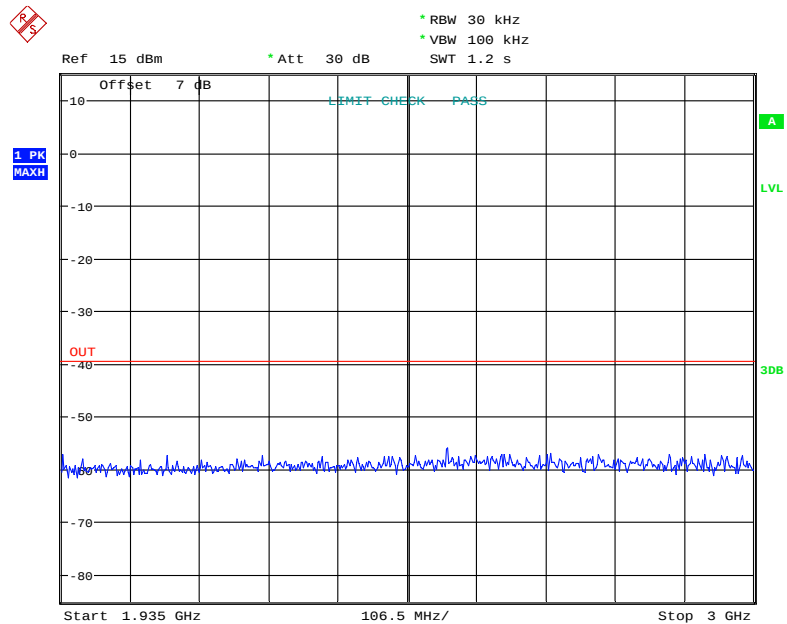
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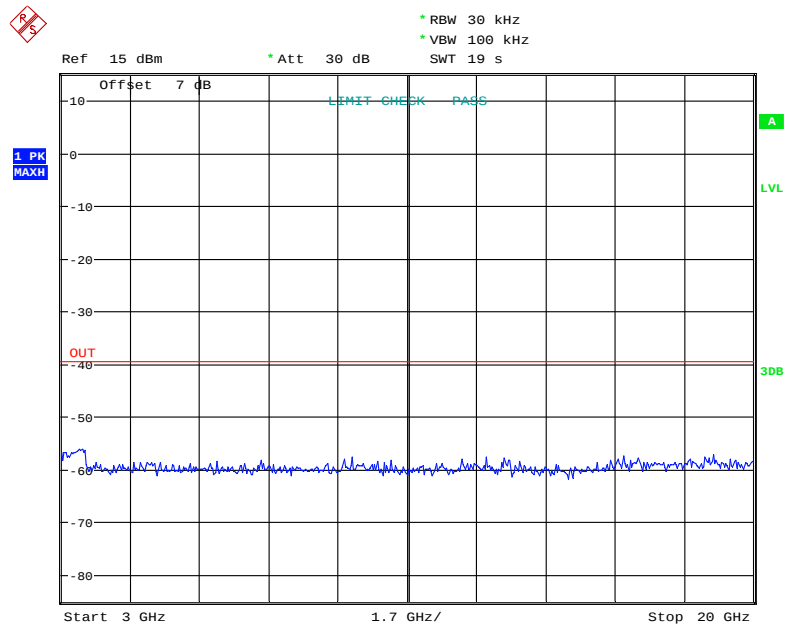
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Date: 25.AUG.2021 00:09:30



Date: 25.AUG.2021 00:10:30



Date: 25.AUG.2021 00:11:12

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