

FCC TEST REPORT

For

Relacart Electronics Co., LTD.

UHF Wireless Microphone System

Test Model: CR-2

Additional Model No.: Please refer to page 6

Prepared for : Relacart Electronics Co., LTD.
Address : NO.10 Fu Xing Road, Ping Shi Industrial Zone, Enping City,
Guangdong, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : October 21, 2020
Number of tested samples : 2
Sample No. : 201013096A-1, 201013096A-2
Serial number : Prototype
Date of Test : October 21, 2020 ~ October 29, 2020
Date of Report : November 04, 2020

**FCC TEST REPORT
FCC CFR 47 PART 74****Report Reference No. : LCS201013096AEA**

Date of Issue : November 04, 2020

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,
Baoan District, Shenzhen, ChinaTesting Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name : Relacart Electronics Co., LTD.**Address : NO.10 Fu Xing Road, Ping Shi Industrial Zone, Enping City,
Guangdong, China**Test Specification**

Standard : FCC CFR 47 PART 74

Test Report Form No. : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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EUT Description. : UHF Wireless Microphone System

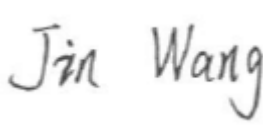
Trade Mark : Relacart

Test Model..... : CR-2

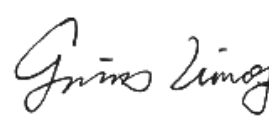
Ratings : DC 3V by 2*AA batteries

Result : **Positive****Compiled by:**

Jayden Zhuo/ Administrators

Supervised by:

Jin Wang/ Technique principal

Approved by:

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS201013096AEA	<u>November 04, 2020</u> Date of issue
--	---

Test Model.....	: CR-2
EUT.....	: UHF Wireless Microphone System
Applicant.....	: Relacart Electronics Co., LTD.
Address.....	: NO.10 Fu Xing Road, Ping Shi Industrial Zone, Enping City, Guangdong, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Relacart Electronics Co., LTD.
Address.....	: NO.10 Fu Xing Road, Ping Shi Industrial Zone, Enping City, Guangdong, China
Telephone.....	: /
Fax.....	: /
Factory.....	: Relacart Electronics Co., LTD.
Address.....	: NO.10 Fu Xing Road, Ping Shi Industrial Zone, Enping City, Guangdong, China
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	November 04, 2020	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: UHF Wireless Microphone System
Test Model	: CR-2
Additional Model No.:	: CR-2, CR-2+ CB-2/CH-2/CP-2, MR2+MR2T, WM-2+WM-2T/WM-2H/WM-2P, CP2+CP2T, MR1+MR1T
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Hardware Version	: /
Software Version	: /
Power Supply	: DC 3V by 2*AA batteries
Operation Frequency	: 554~570MHz 570~586MHz
Modulation Type	: FM
Channel Number	: 16 channels for 554~570MHz(562) (Low Channel:554.250MHz, Middle Channel:560.225MHz, High Channel:569.425MHz) 16 channels for 570~586MHz(578) (Low Channel:570.225MHz, Middle Channel:578.375MHz, High Channel:585.800MHz)
Antenna Type	: External Antenna
Antenna Gain	: 0dBi
Extreme temp. Tolerance	: -30°C to +50°C

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	--

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
--	--	--

1.4. Description of Test Facility

FCC Registration Number. is 254912.

Industry Canada Registration Number. is 9642A.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

NVLAP Registration Code is 600167-0

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in Y position.

The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Modulation Type	Test Channel	Test Frequency (MHz)
FM	01	570.225
	09	578.375
	16	585.800
	17	554.250
	25	560.225
	32	569.425

1.8. Frequency of Channels

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	570.225	17	554.250
02	571.575	18	555.500
03	572.250	19	556.000
04	573.550	20	556.700
05	576.100	21	557.100
06	575.750	22	557.900
07	577.450	23	558.750
08	577.950	24	559.750
09	578.375	25	560.225
10	579.100	26	560.975
11	580.175	27	561.750
12	581.775	28	562.775
13	583.125	29	564.250
14	583.625	30	566.300
15	584.825	31	568.225
16	585.800	32	569.425

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section FCC Rules Part 74.

2.3. General Test Procedures

2.3.1 Power Line Conducted Emissions(N/A)

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.4-2014 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

Please refer to radiated spurious emission.

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(201013096A -1)	Engineer sample – continuous transmit
Sample 2(201013096A -2)	Normal sample – Intermittent transmit

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and transmission frequency by switch button control.

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 74		
FCC Rules	Description of Test	Result
FCC Part 74.861(e)(1)(ii) FCC Part 2.1046	Maximum Conducted Output Power	Compliant
FCC Part 74.861 (e)(5) FCC Part 2.1049	Occupied Bandwidth	Compliant
FCC Part 74.861 (e)(4) FCC Part 2.1055	Frequency error	Compliant
FCC Part 74.861(e)(7) 2.1053	Transmitter unwanted emissions(radiated or conducted)	Compliant
FCC Part 74.861(e)(3) FCC Part 2.1047	Modulation characteristic	Compliant
FCC Part 74.861 (e)(7) FCC Part 2.1049	Necessary bandwidth (NB)	Compliant

5. TEST RESULT

5.1. Transmitter output power

5.1.1. Description:

The power may not exceed the following values.

- (i) 54-72, 76-88, and 174-216 MHz bands: 50 mW EIRP
- (ii) 470-608 and 614-698: 250 mW conducted power
- (iii) 600 MHz duplex gap: 20 mW EIRP

5.1.2. Measurement:

Measurement parameter	
Detector:	Peak (worst case) / Average (RMS)
Sweep time:	Auto / 20s
Resolution bandwidth:	> emission bandwidth
Video bandwidth:	> resolution bandwidth
Span:	> 2 times emissions bandwidth
Trace mode:	Max. hold
EUT configuration:	<p>Peak: Unmodulated carrier</p> <p>RMS: Modulate the transmitter with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of ± 75 kHz, or to produce 50% of the manufacturer's rated deviation, whichever is less.</p>

5.1.3. Limits:

FCC
470 MHz to 608 MHz 250 mW (average) / 24 dBm (average)

5.1.4. Test result:

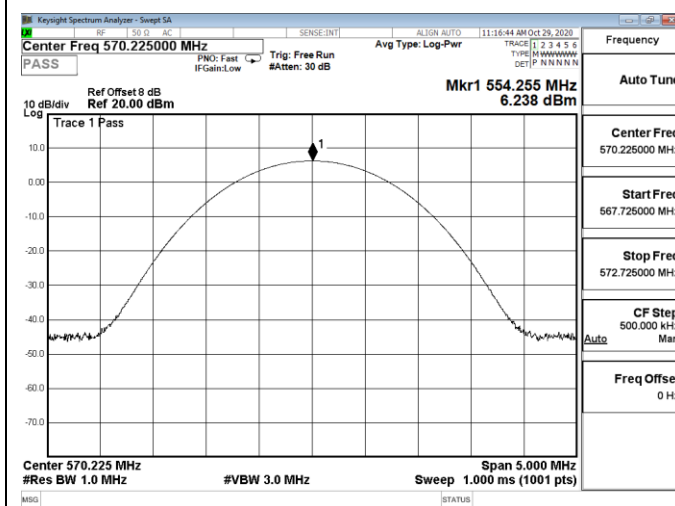
The EUT was programmed to be in continuously transmitting mode.

5.1.5. Test result

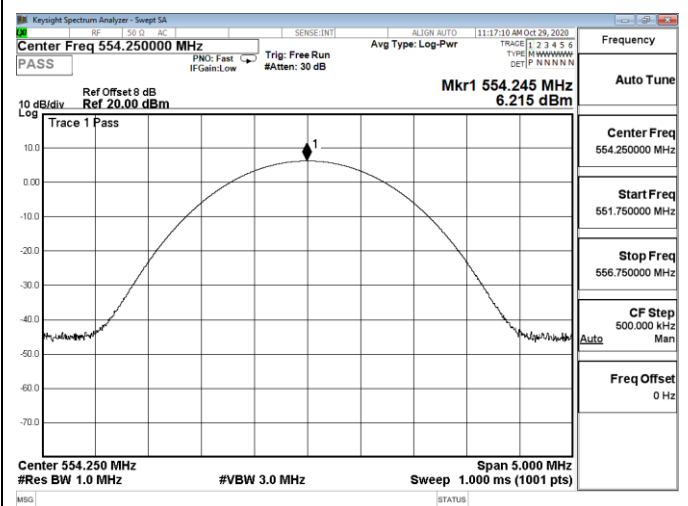
Temperature	24.6°C	Humidity	54.1%
Test Engineer	Diamond Lu	Configurations	FM

Test Mode	Channel	Frequency (MHz)	Measured Maximum Peak Power(dBm)	Measured Maximum Average Power(dBm)	Limits Average (dBm)	Verdict
FM	01	570.225	6.238	/	24	PASS
	09	578.375	6.215	/		
	16	585.800	6.156	/		
	17	554.250	6.215	/		
	25	560.225	7.348	/		
	32	569.425	6.264	/		

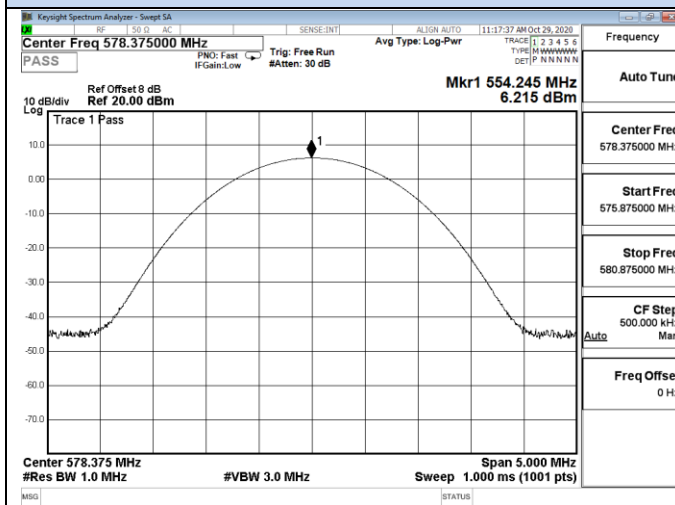
Maximum Peak Output Power



Maximum Peak Output Power

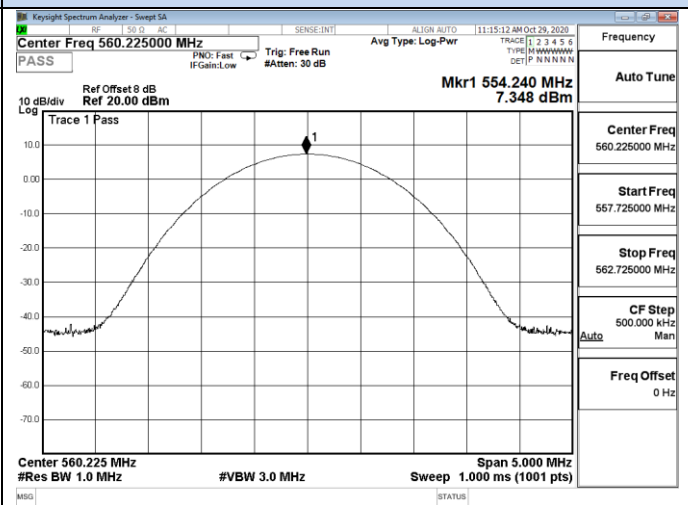


Channel 01 / 570.225 MHz

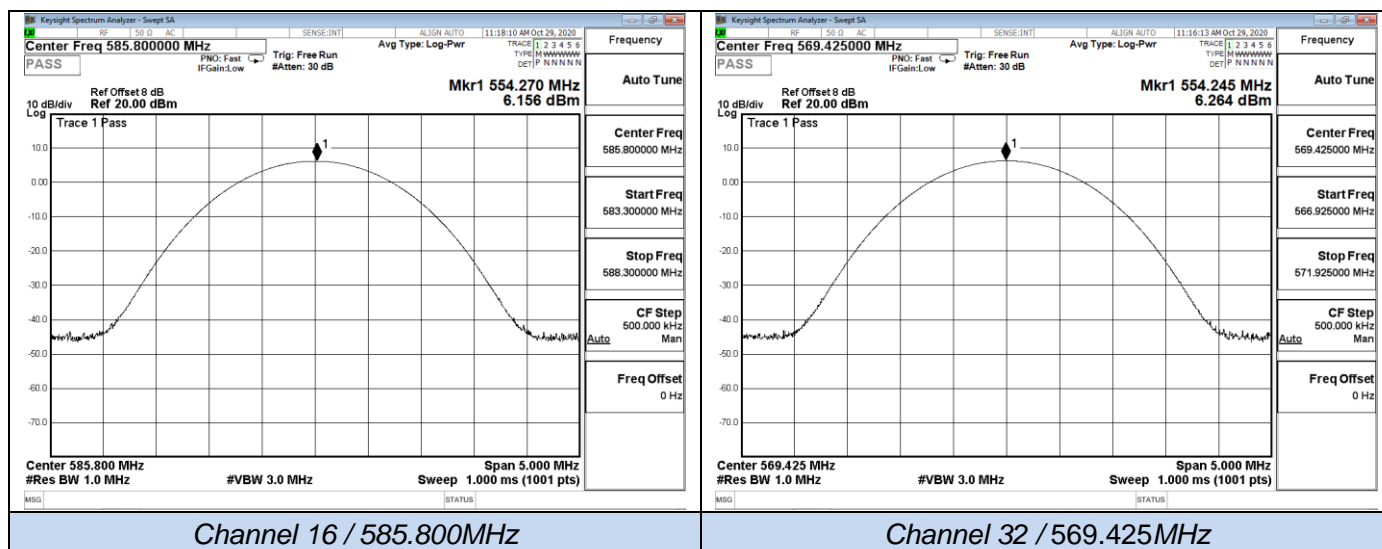


Channel 09 / 578.375MHz

Channel 17 / 554.250 MHz



Channel 25 / 560.225MHz



5.2. Occupied bandwidth and Emission Mask

5.2.1. Description:

The operating bandwidth shall not exceed 200 kHz.

The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

- (i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;
- (ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;
- (iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least $43 + 10\log_{10}$ (mean output power in watts) dB.

5.2.2. Measurement:

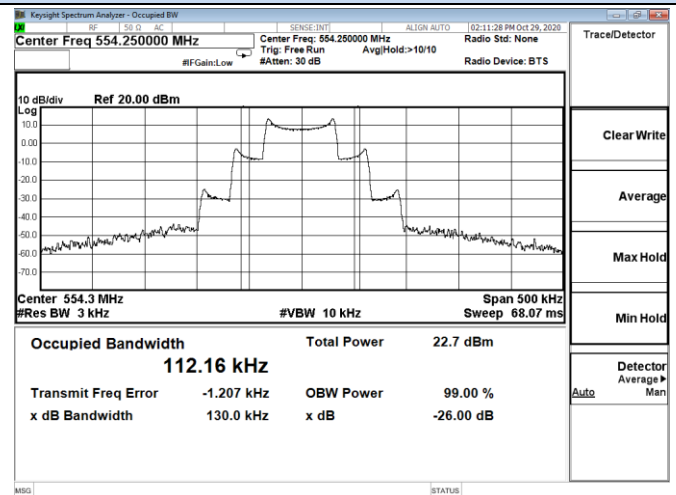
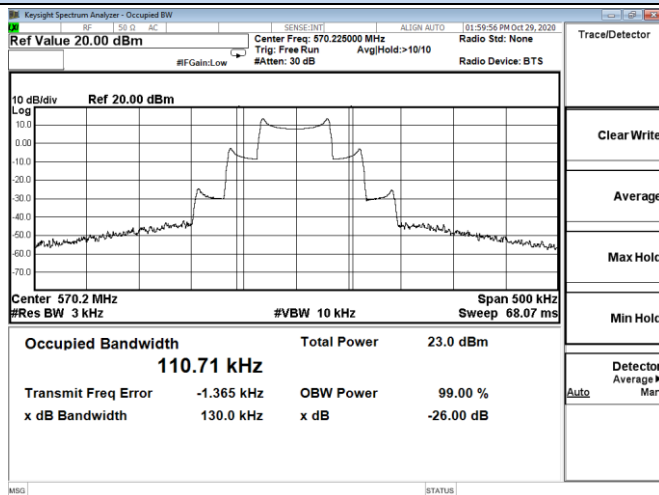
Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	1 % to 5 % of the occupied bandwidth
Video bandwidth:	3 x resolution bandwidth
Span:	2 x emission bandwidth
Trace mode:	Max. hold
Analyzer function:	99% power occupied bandwidth function
EUT:	Modulated signal with max. frequency deviation

5.2.3. Result:

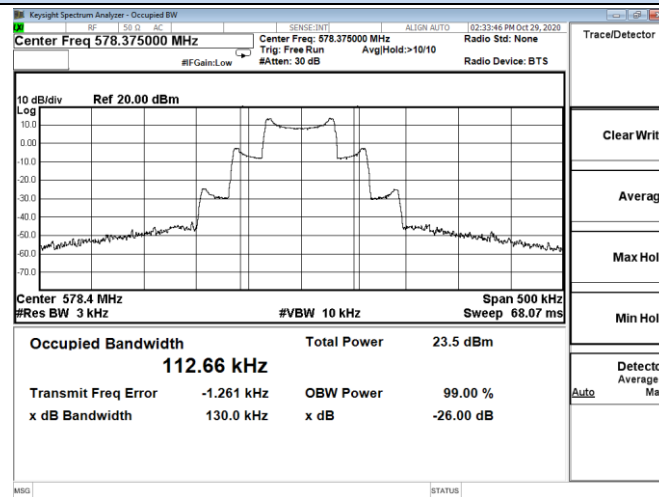
Temperature	24.6°C	Humidity	54.1%
Test Engineer	Diamond Lu	Configurations	FM

Test Mode	Channel	Frequency (MHz)	99% Bandwidth (KHz)	Limits (KHz)	Verdict
FM	01	570.225	110.71	200	PASS
	09	578.375	112.66		
	16	585.800	111.22		
	17	554.250	112.16		
	25	560.225	118.07		
	32	569.425	118.69		

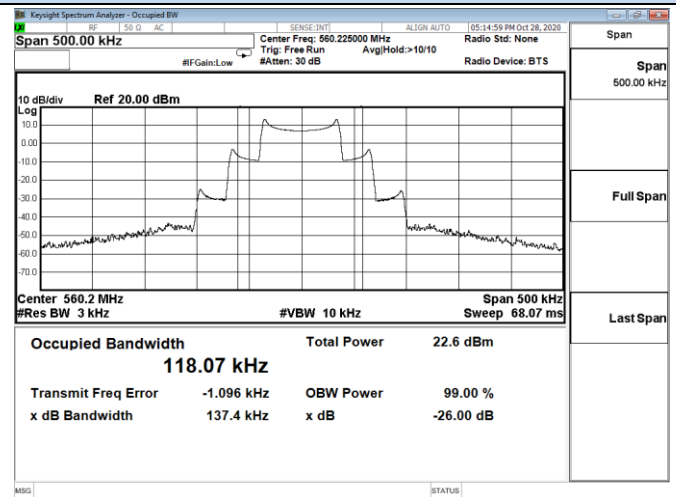
99% Bandwidth



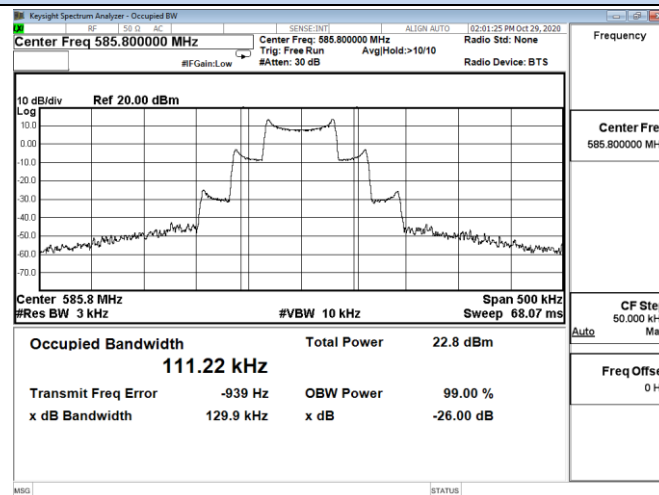
Channel 01 / 570.225 MHz



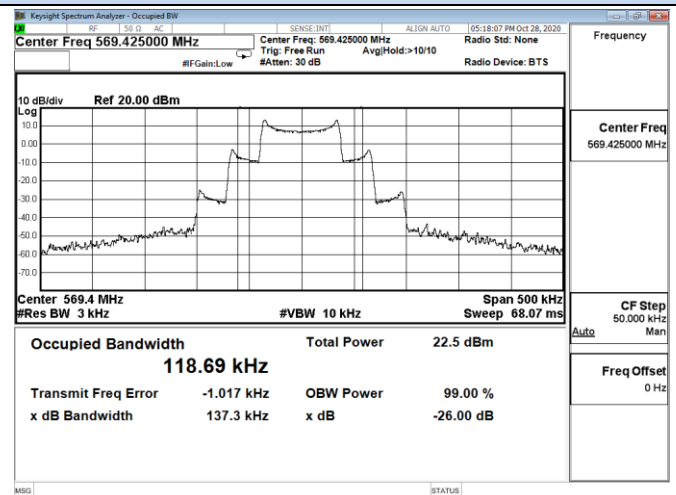
Channel 17 / 554.250 MHz



Channel 09 / 578.375 MHz



Channel 25 / 560.225 MHz



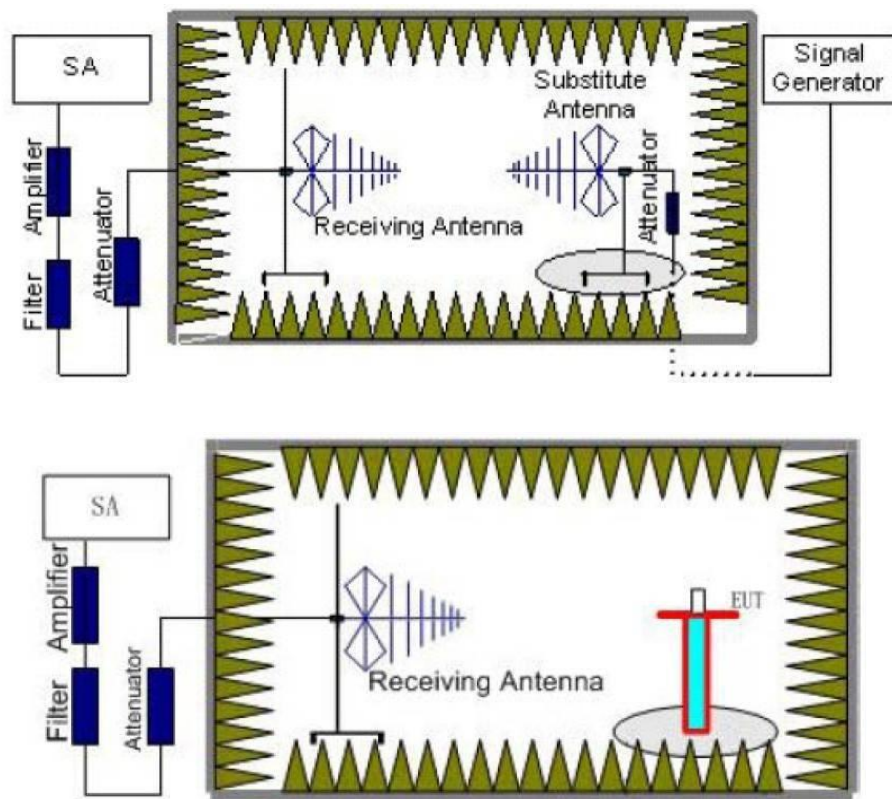
Channel 16 / 585.800 MHz

Channel 32 / 569.425 MHz

5.3. Transmitter unwanted emissions(radiated)

5.3.1. Measurement description:

TEST CONFIGURATION



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The

power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{\text{Mea}} - P_{\text{Ag}} - P_{\text{cl}} + G_a$$

6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
7. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.
8. In order to make sure test results more clearly, we set frequency range and sweep time for difference frequency range as follows table:

TEST LIMITS

FCC & IC (according to ETSI EN 300 422-1 V2.1.2 (2017-01))			
State	Max. spurious level		
	47 MHz to 74 MHz 87.5 MHz to 118 MHz 174 MHz to 230 MHz	Other frequencies ≤ 1000 MHz	All frequencies > 1000 MHz
Operating	4.0 nW	250 nW	1.00 μW
Standby	2.0 nW	2.0 nW	20.0 nW

FCC & IC	
The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:	
On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the	25 dB
On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of	35 dB
On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least	$43 + 10\log_{10}$ (mean output power in watts) dB

$$P = 10 \cdot \log_{10} \left(\frac{P}{P_0} \right) \quad P_0 = 1\text{mW}$$

$$U = 20 \cdot \log_{10} \left(\frac{u}{u_0} \right) \quad u_0 = 1\mu\text{V}$$

$$P = \frac{u^2}{Z_c} \quad Z_c = 50$$

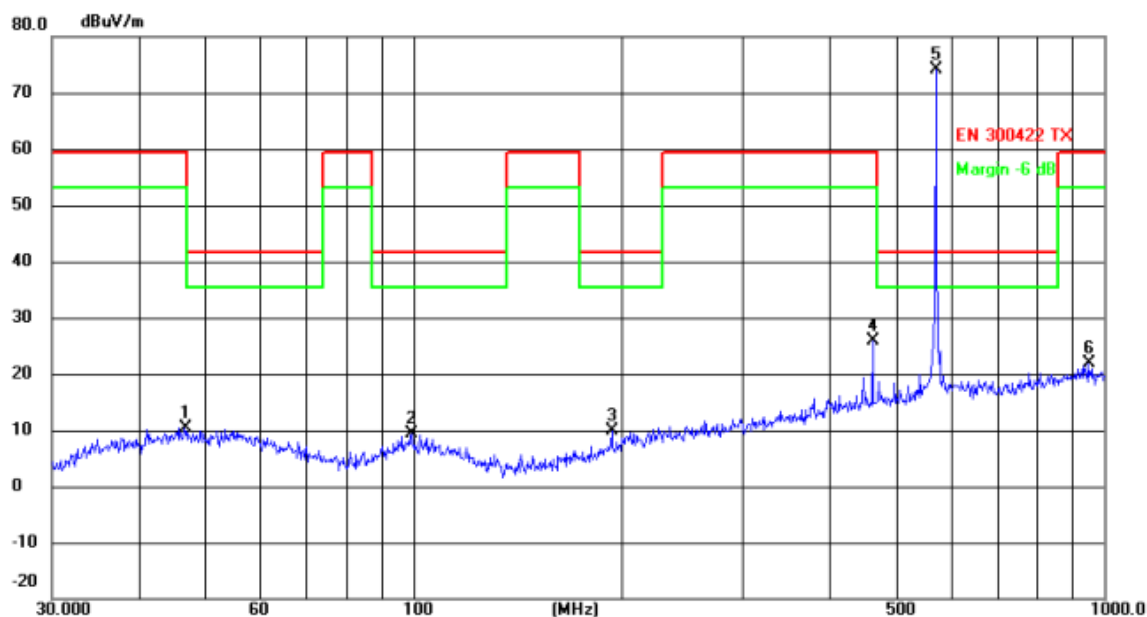
5.3.2. Results for Radiated Emissions

Temperature	24.6°C	Humidity	54.1%
Test Engineer	Diamond Lu	Configurations	

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Channel 01 / 570.225 MHz

Horizontal



Site 966 chamber #1

Polarization: **Horizontal**

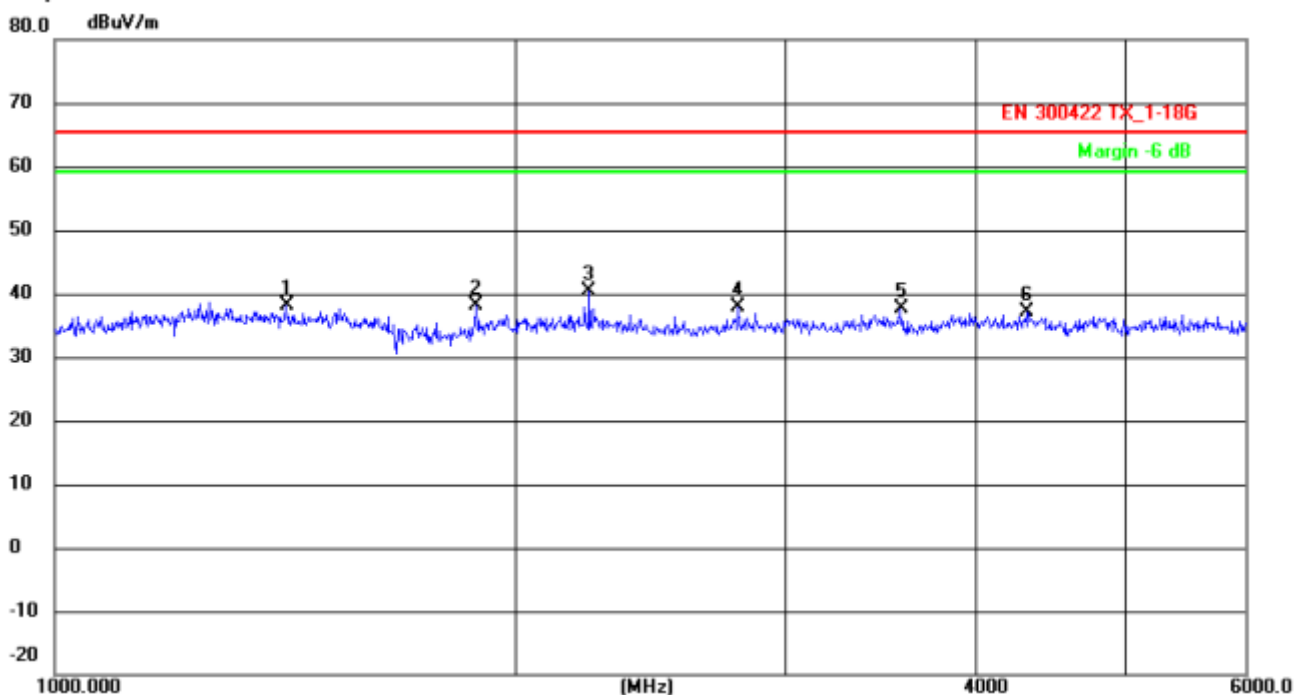
Temperature: 24.6 (C)

Limit: EN 300422 TX

Power: AC 120V/60Hz

Humidity: 54.1 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.6664	26.00	-15.59	10.41	59.24	-48.83	QP
2	99.5281	26.86	-17.49	9.37	41.28	-31.91	QP
3	193.7728	28.25	-18.25	10.00	41.28	-31.28	QP
4	462.3455	38.36	-12.44	25.92	59.24	-33.32	QP
5	570.6100	84.34	-10.19	74.15	41.28	32.87	peak
6	948.7610	29.02	-7.02	22.00	59.24	-37.24	QP

Horizontal

Site 966 chamber #1

Polarization: *Horizontal*

Temperature: 22.2 (C)

Limit: FCC Part15 RE-Class B_30-1000MHz

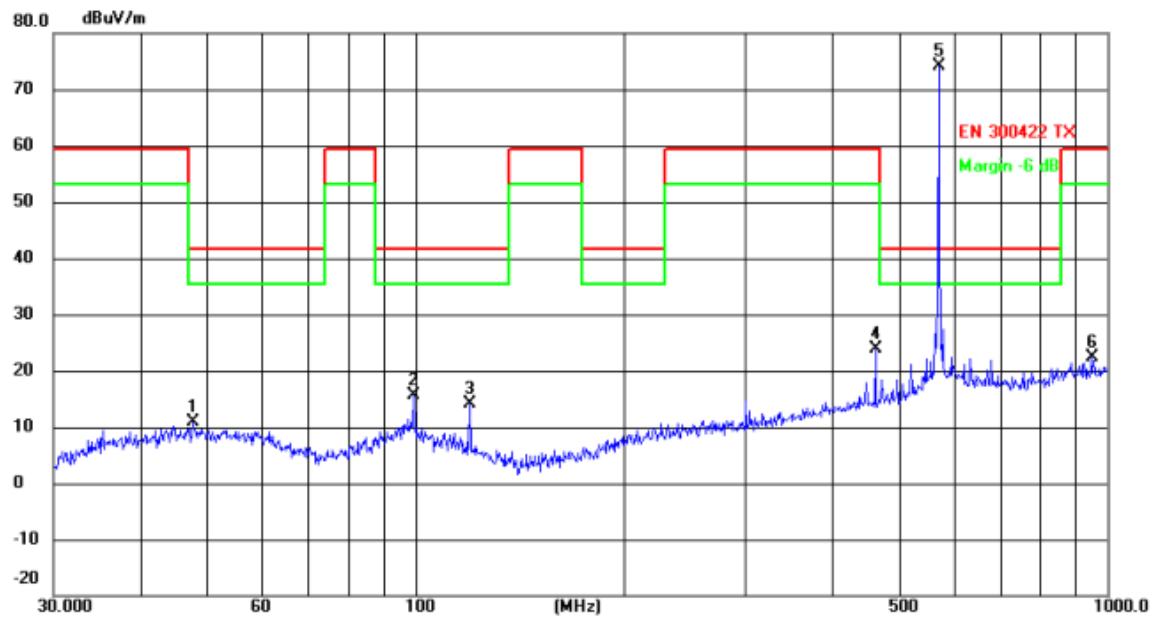
Power: DC

Humidity: 53.3 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1415.668	42.72	-4.67	38.05	65.25	-27.20	peak
2	1885.669	39.85	-1.77	38.08	65.25	-27.17	peak
3	2235.578	9.74	30.57	40.31	65.25	-24.94	peak
4	2796.783	4.58	33.20	37.78	65.25	-27.47	peak
5	3568.514	37.72	0.00	37.72	65.25	-27.53	peak
6	4322.645	37.17	0.00	37.17	65.25	-28.08	peak

Channel 01 / 570.225 MHz

Vertical



Site 966 chamber #1

Polarization: **Vertical**

Temperature: 24.6 (C)

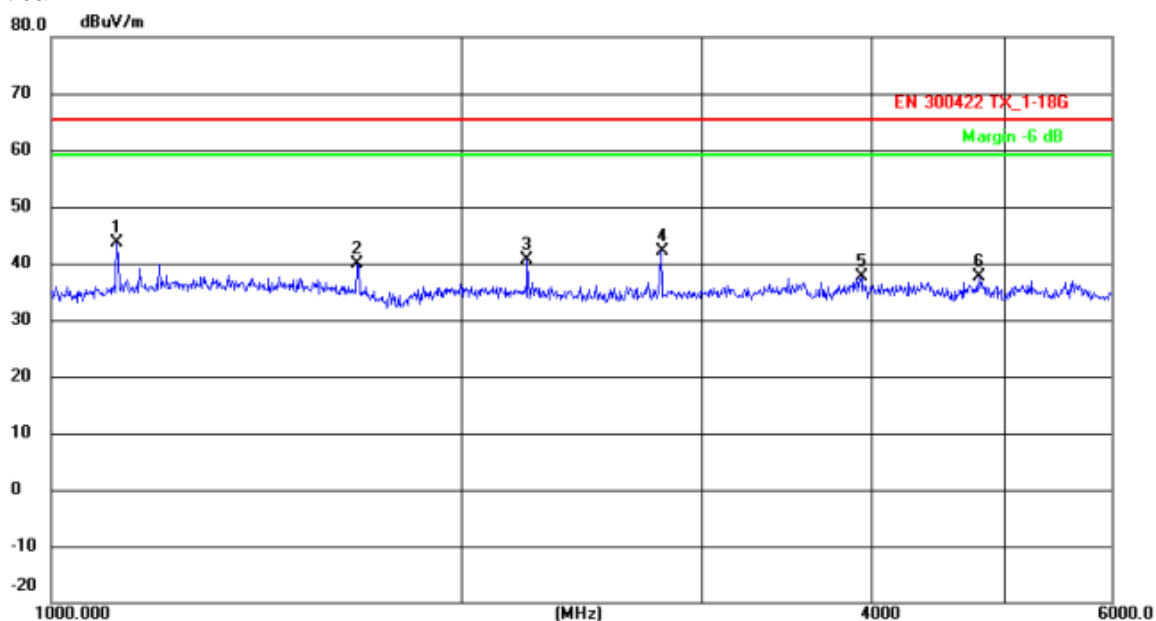
Limit: EN 300422 TX

Power: AC 120V/60Hz

Humidity: 54.1 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.6586	26.54	-15.59	10.95	41.28	-30.33	QP
2	99.5281	33.01	-17.49	15.52	41.28	-25.76	QP
3	119.8556	33.83	-19.72	14.11	41.28	-27.17	QP
4	462.3455	36.20	-12.44	23.76	59.24	-35.48	QP
5	570.6100	84.35	-10.19	74.16	41.28	32.88	peak
6	948.7610	29.37	-7.02	22.35	59.24	-36.89	QP

Vertical



Site 966 chamber #1

Polarization: **Vertical**

Temperature: 24.6 (C)

Limit: EN 300422 TX 1-18G

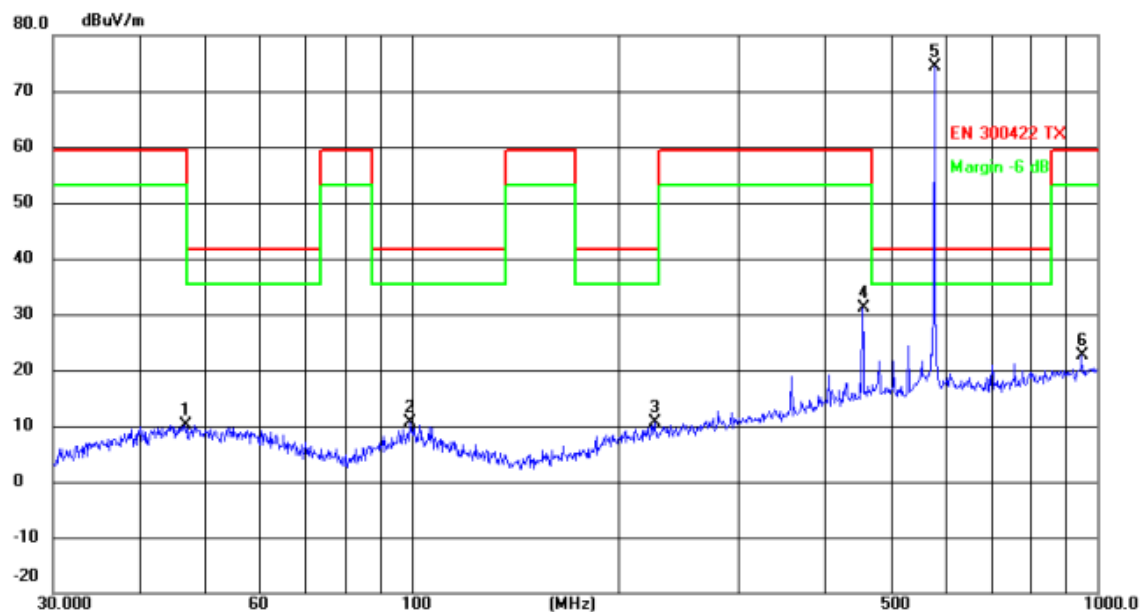
Power: DC

Humidity: 54.1 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1117.494	47.57	-4.01	43.56	65.25	-21.69	peak
2	1678.362	42.58	-2.63	39.95	65.25	-25.30	peak
3	2235.578	10.06	30.57	40.63	65.25	-24.62	peak
4	2801.799	8.86	33.20	42.06	65.25	-23.19	peak
5	3931.041	37.60	0.00	37.60	65.25	-27.65	peak
6	4796.035	37.69	0.00	37.69	65.25	-27.56	peak

Channel 09/578.375 MHz

Horizontal



Site 966 chamber #1

Polarization: **Horizontal**

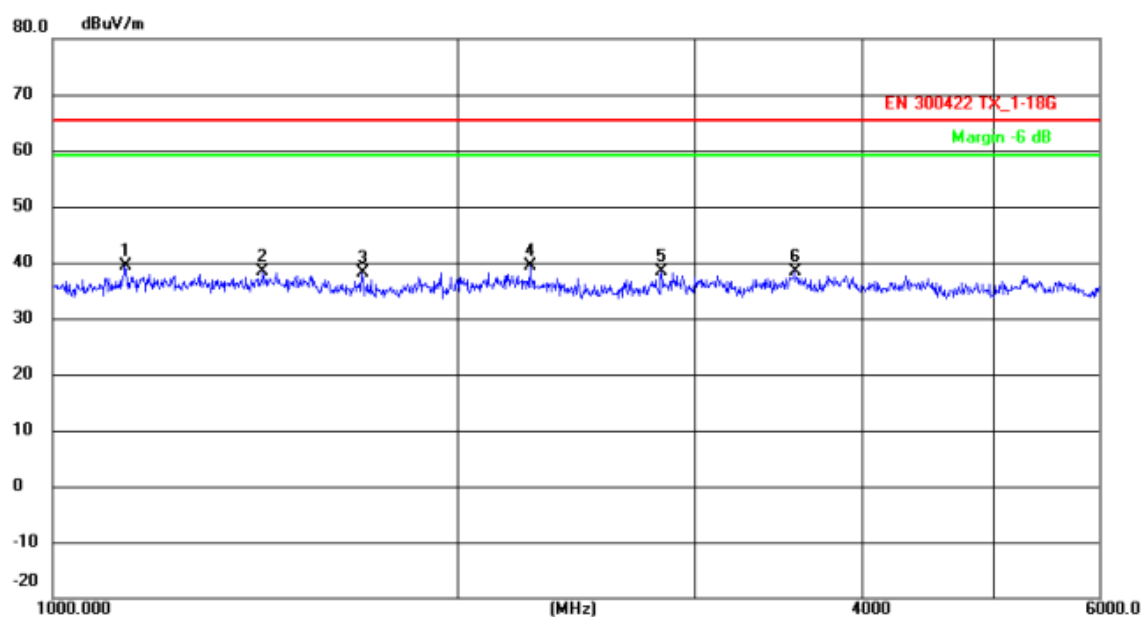
Temperature: 24.6 (C)

Limit: EN 300422 TX

Power: AC 120V/60Hz

Humidity: 54.1 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.6664	25.84	-15.59	10.25	59.24	-48.99	QP
2	99.5281	28.11	-17.49	10.62	41.28	-30.66	QP
3	226.0994	27.24	-16.71	10.53	41.28	-30.75	QP
4	454.3100	43.74	-12.51	31.23	59.24	-28.01	QP
5	578.6699	84.37	-9.97	74.40	41.28	33.12	peak
6	948.7610	29.53	-7.02	22.51	59.24	-36.73	QP

Horizontal

Site 966 chamber #1

Polarization: *Horizontal*

Temperature: 22.2 (C)

Limit: EN 300422 TX_1-18G

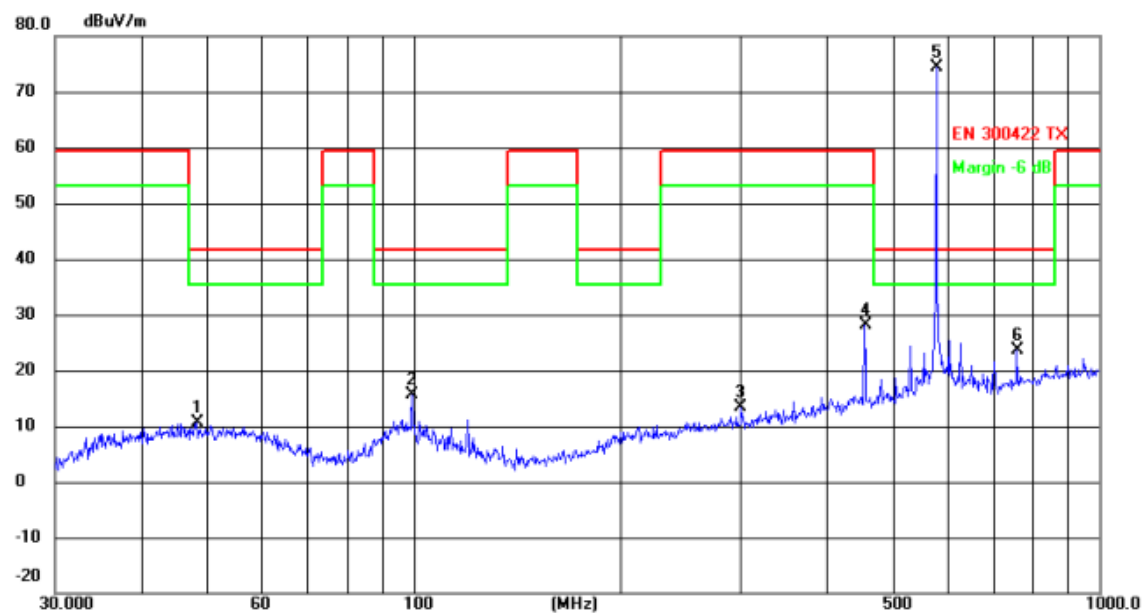
Power: DC

Humidity: 53.3 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1131.599	43.29	-3.93	39.36	65.25	-25.89	peak
2	1433.535	42.86	-4.52	38.34	65.25	-26.91	peak
3	1696.503	40.55	-2.52	38.03	65.25	-27.22	peak
4	2263.794	8.62	30.78	39.40	65.25	-25.85	peak
5	2837.161	5.01	33.26	38.27	65.25	-26.98	peak
6	3562.126	38.32	0.00	38.32	65.25	-26.93	peak

Channel 09/578.375 MHz

Vertical



Site 966 chamber #1

Polarization: **Vertical**

Temperature: 24.6 (C)

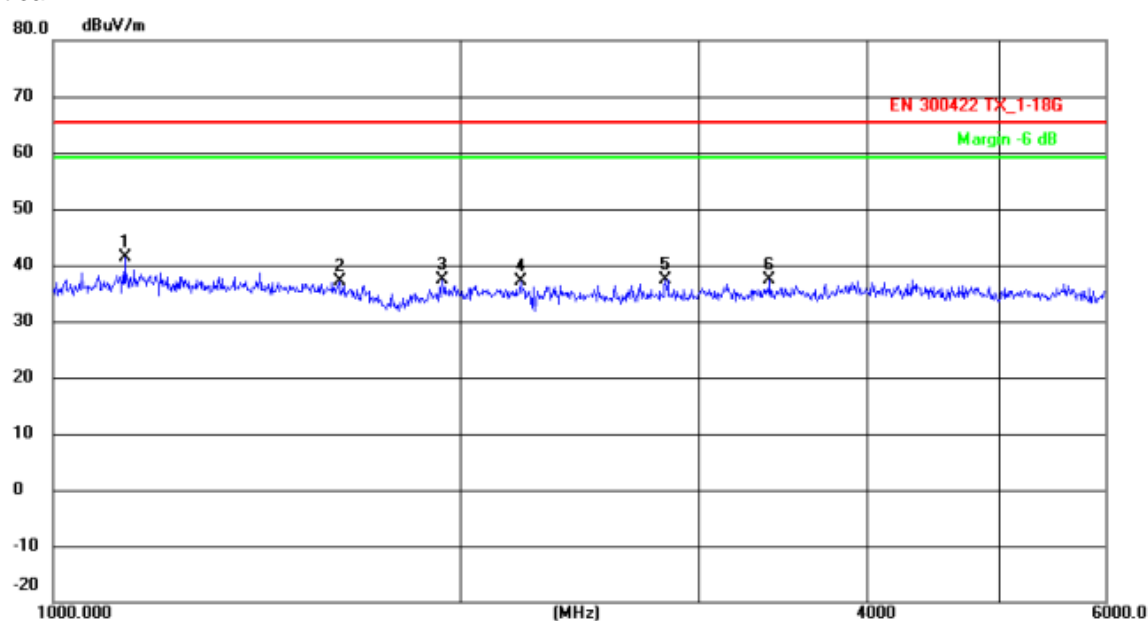
Limit: EN 300422 TX

Power: AC 120V/60Hz

Humidity: 54.1 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.1626	26.20	-15.59	10.61	41.28	-30.67	QP
2	99.5281	33.01	-17.49	15.52	41.28	-25.76	QP
3	300.3672	28.42	-15.09	13.33	59.24	-45.91	QP
4	454.3100	40.57	-12.51	28.06	59.24	-31.18	QP
5	578.6699	84.36	-9.97	74.39	41.28	33.11	peak
6	758.0408	32.49	-8.93	23.56	41.28	-17.72	QP

Vertical



Site 966 chamber #1

Polarization: **Vertical**

Temperature: 22.2 (C)

Limit: EN 300422 TX_1-18G

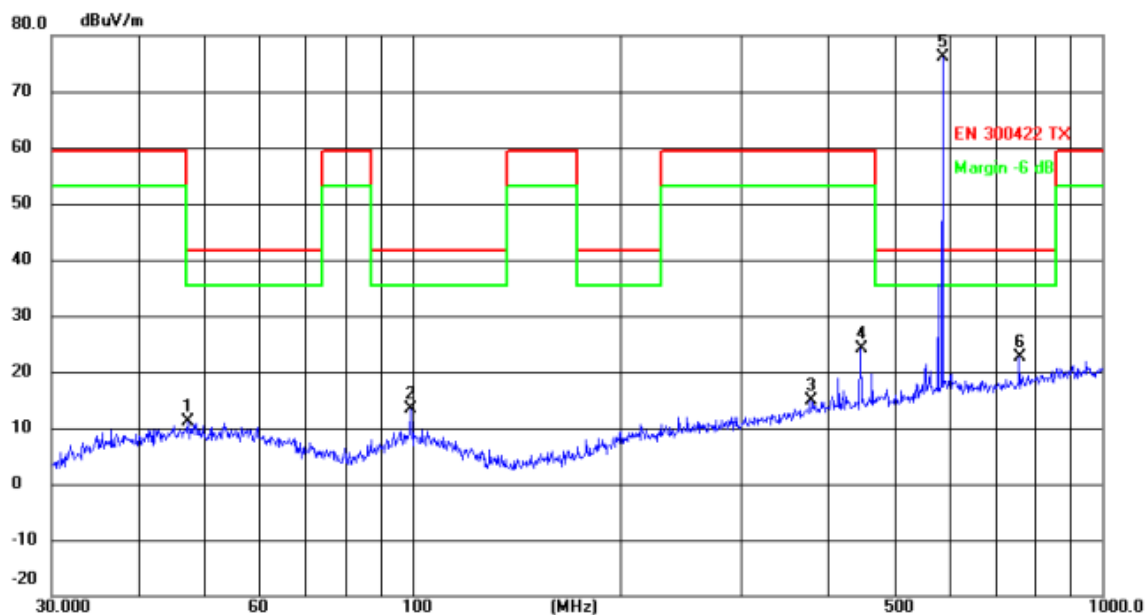
Power: DC

Humidity: 53.3 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1129.573	45.35	-3.93	41.42	65.25	-23.83	peak
2	1628.010	40.00	-2.93	37.07	65.25	-28.18	peak
3	1940.510	39.16	-1.69	37.47	65.25	-27.78	peak
4	2215.640	6.80	30.42	37.22	65.25	-28.03	peak
5	2837.161	4.18	33.26	37.44	65.25	-27.81	peak
6	3387.825	37.29	0.00	37.29	65.25	-27.96	peak

Channel 16 / 585.800 MHz

Horizontal



Site 966 chamber #1

Polarization: **Horizontal**

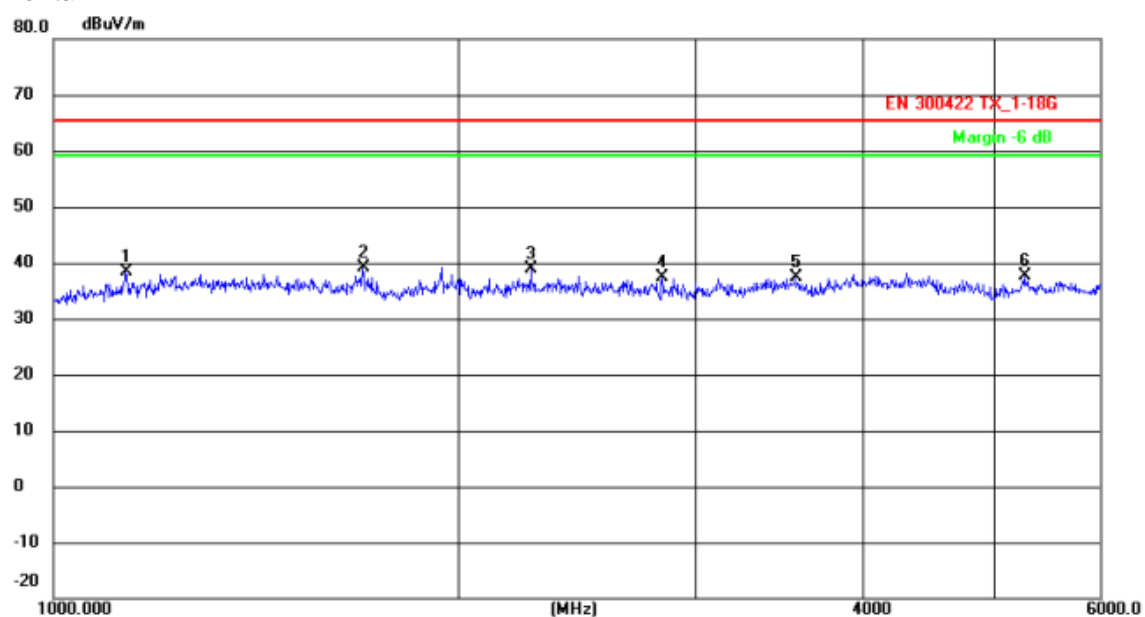
Temperature: 24.6 (C)

Limit: EN 300422 TX

Power: AC 120V/60Hz

Humidity: 54.1 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.3255	26.67	-15.59	11.08	41.28	-30.20	QP
2	99.5281	30.80	-17.49	13.31	41.28	-27.97	QP
3	377.2591	28.44	-13.48	14.96	59.24	-44.28	QP
4	446.4141	36.78	-12.59	24.19	59.24	-35.05	QP
5	586.8437	85.79	-9.74	76.05	41.28	34.77	peak
6	758.0408	31.56	-8.93	22.63	41.28	-18.65	QP

Horizontal

Site 966 chamber #1

Polarization: *Horizontal*

Temperature: 22.2 (C)

Limit: EN 300422 TX_1-18G

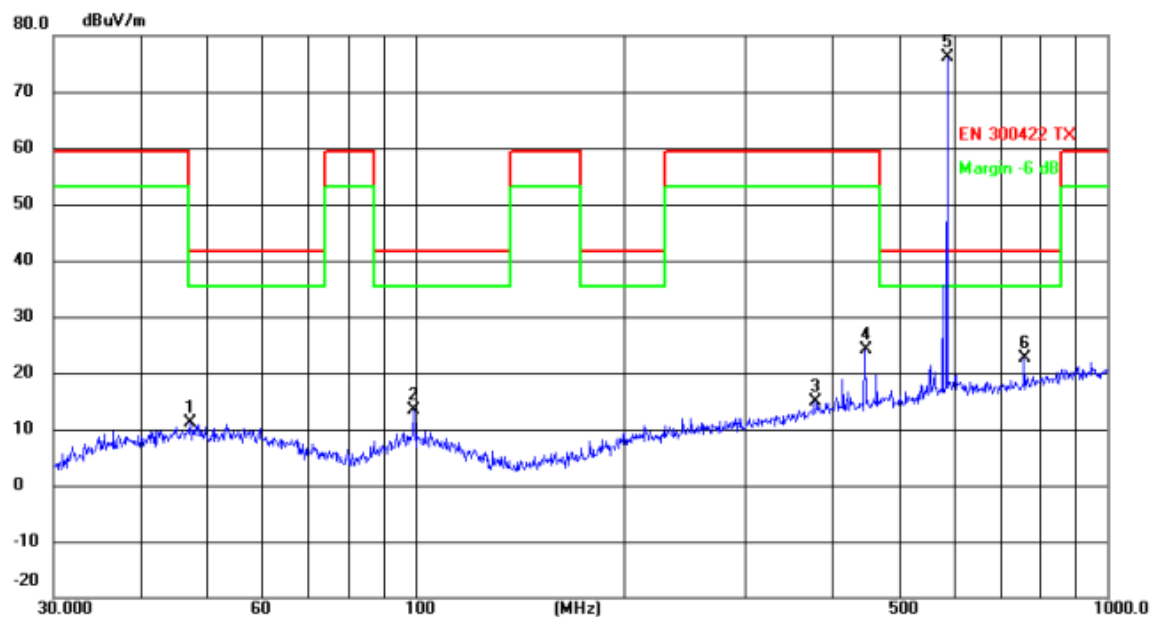
Power: DC

Humidity: 53.3 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1131.599	42.29	-3.93	38.36	65.25	-26.89	peak
2	1696.503	41.55	-2.52	39.03	65.25	-26.22	peak
3	2263.794	8.12	30.78	38.90	65.25	-26.35	peak
4	2837.161	4.01	33.26	37.27	65.25	-27.98	peak
5	3562.126	37.32	0.00	37.32	65.25	-27.93	peak
6	5273.809	37.64	0.00	37.64	65.25	-27.61	peak

Channel 16 / 585.800 MHz

Vertical



Site 966 chamber #1

Polarization: **Horizontal**

Temperature: 24.6 (C)

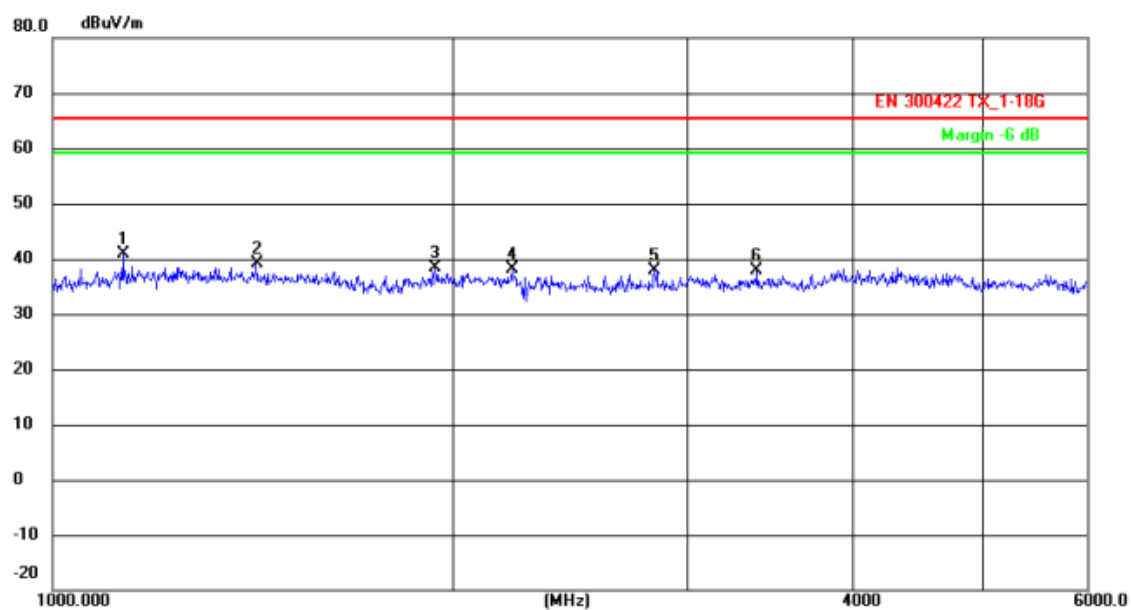
Limit: EN 300422 TX

Power: AC 120V/60Hz

Humidity: 54.1 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.3255	26.67	-15.59	11.08	41.28	-30.20	QP
2	99.5281	30.80	-17.49	13.31	41.28	-27.97	QP
3	377.2591	28.44	-13.48	14.96	59.24	-44.28	QP
4	446.4141	36.78	-12.59	24.19	59.24	-35.05	QP
5	586.8437	85.79	-9.74	76.05	41.28	34.77	peak
6	758.0408	31.56	-8.93	22.63	41.28	-18.65	QP

Vertical



Site 966 chamber #1

Polarization: **Vertical**

Temperature: 22.2 (C)

Limit: EN 300422 TX_1-18G

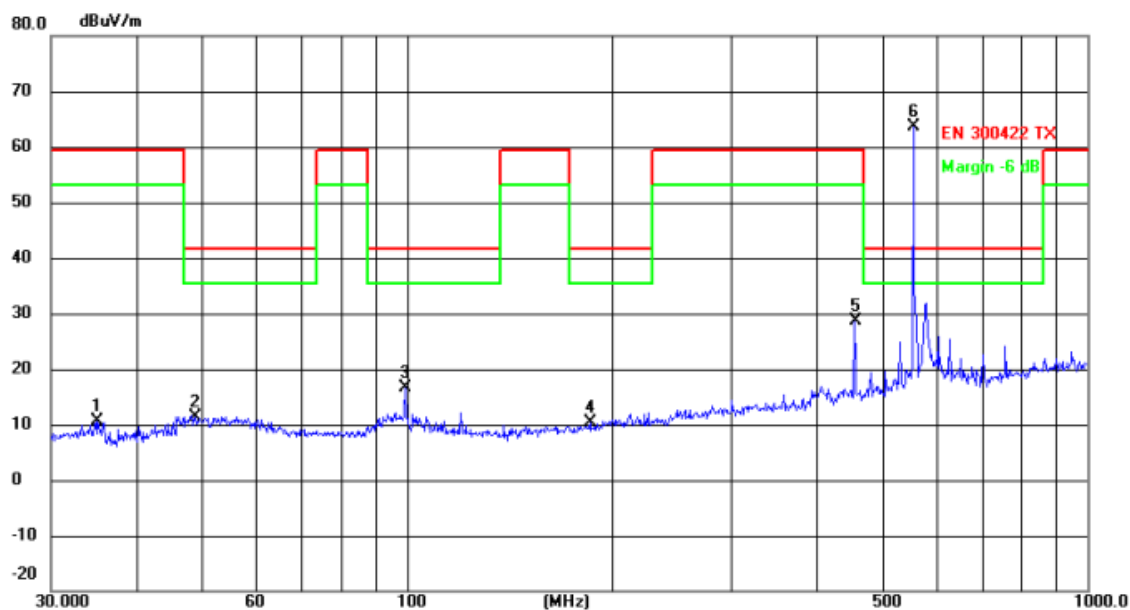
Power: DC

Humidity: 53.3 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1129.573	44.85	-3.93	40.92	65.25	-24.33	peak
2	1423.298	43.66	-4.60	39.06	65.25	-26.19	peak
3	1940.510	40.16	-1.69	38.47	65.25	-26.78	peak
4	2215.640	7.80	30.42	38.22	65.25	-27.03	peak
5	2837.161	4.68	33.26	37.94	65.25	-27.31	peak
6	3387.825	37.79	0.00	37.79	65.25	-27.46	peak

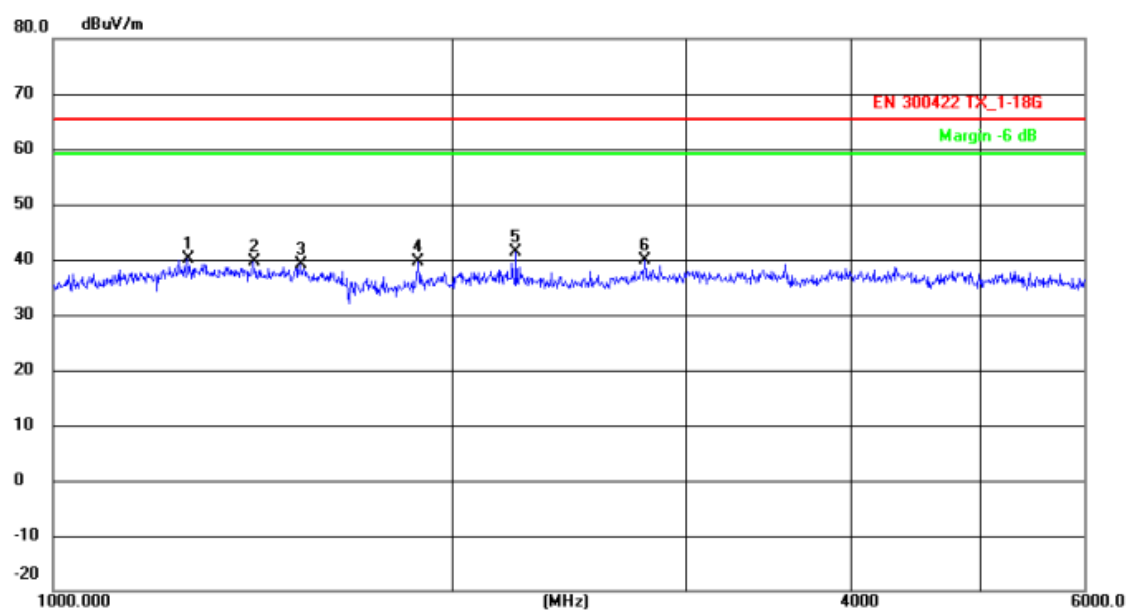
Channel 17 / 554.250 MHz

Horizontal



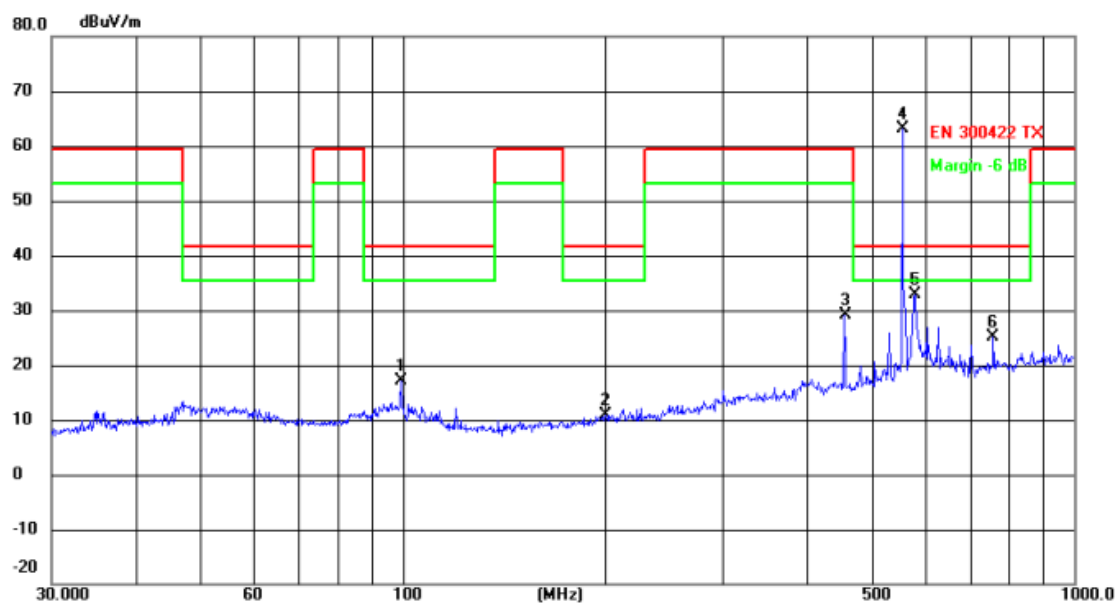
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.1277	28.16	-17.52	10.64	59.24	-48.60	QP
2	48.8428	27.09	-15.60	11.49	41.28	-29.79	QP
3	99.5281	34.01	-17.49	16.52	41.28	-24.76	QP
4	185.7882	29.57	-19.20	10.37	41.28	-30.91	QP
5	454.3100	41.07	-12.51	28.56	59.24	-30.68	QP
6	554.8254	74.15	-10.61	63.54	41.28	22.26	peak

Horizontal



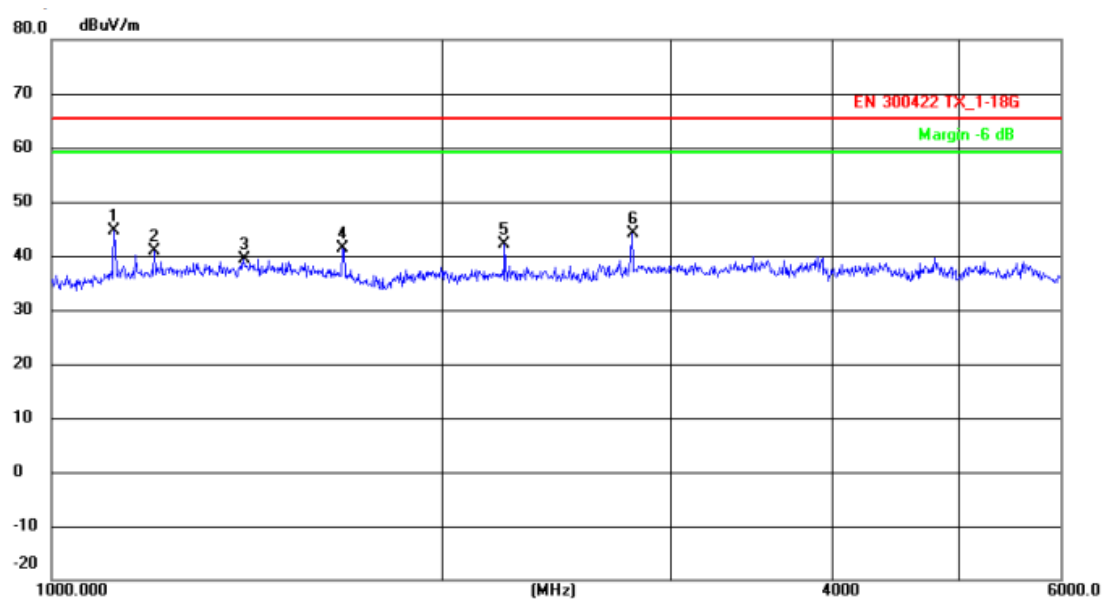
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1262.292	45.58	-5.56	40.02	65.25	-25.23	peak
2	1415.668	44.22	-4.67	39.55	65.25	-25.70	peak
3	1534.540	42.87	-3.66	39.21	65.25	-26.04	peak
4	1885.669	41.35	-1.77	39.58	65.25	-25.67	peak
5	2235.578	10.74	30.57	41.31	65.25	-23.94	peak
6	2796.783	6.58	33.20	39.78	65.25	-25.47	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	99.5279	34.51	-17.49	17.02	41.28	-24.26	QP
2	200.6879	28.24	-17.48	10.76	41.28	-30.52	QP
3	454.3100	41.57	-12.51	29.06	59.24	-30.18	QP
4	554.8252	73.65	-10.61	63.04	41.28	21.76	peak
5	578.6700	42.86	-9.97	32.89	41.28	-8.39	QP
6	758.0407	33.99	-8.93	25.06	41.28	-16.22	QP

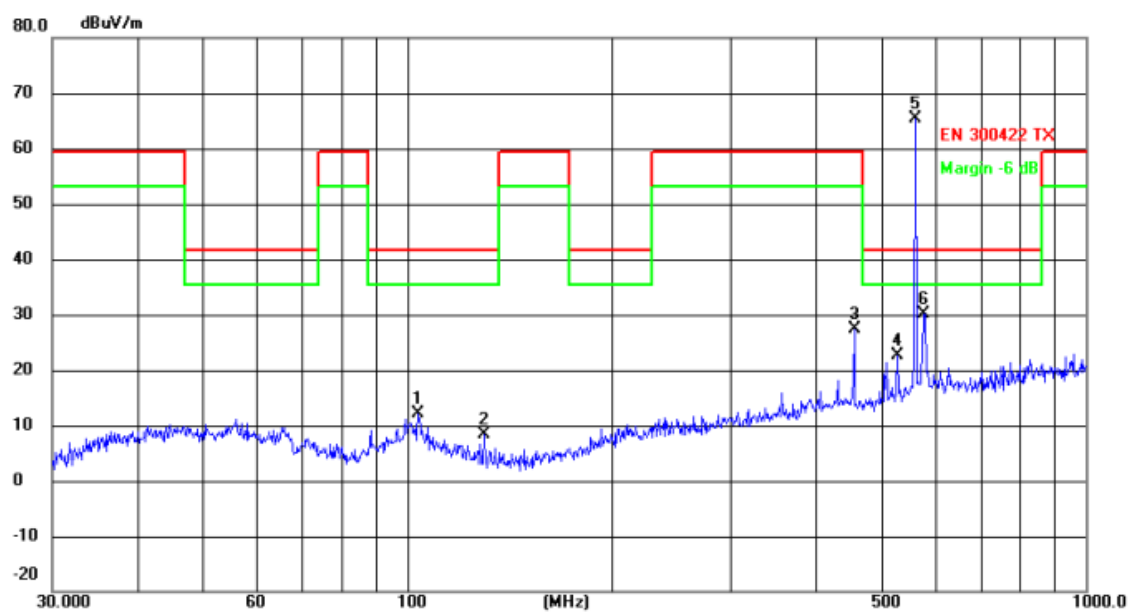
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1117.494	48.57	-4.01	44.56	65.25	-20.69	peak
2	1200.525	46.68	-5.90	40.78	65.25	-24.47	peak
3	1405.558	44.09	-4.75	39.34	65.25	-25.91	peak
4	1678.362	44.08	-2.63	41.45	65.25	-23.80	peak
5	2235.578	11.56	30.57	42.13	65.25	-23.12	peak
6	2801.799	10.86	33.20	44.06	65.25	-21.19	peak

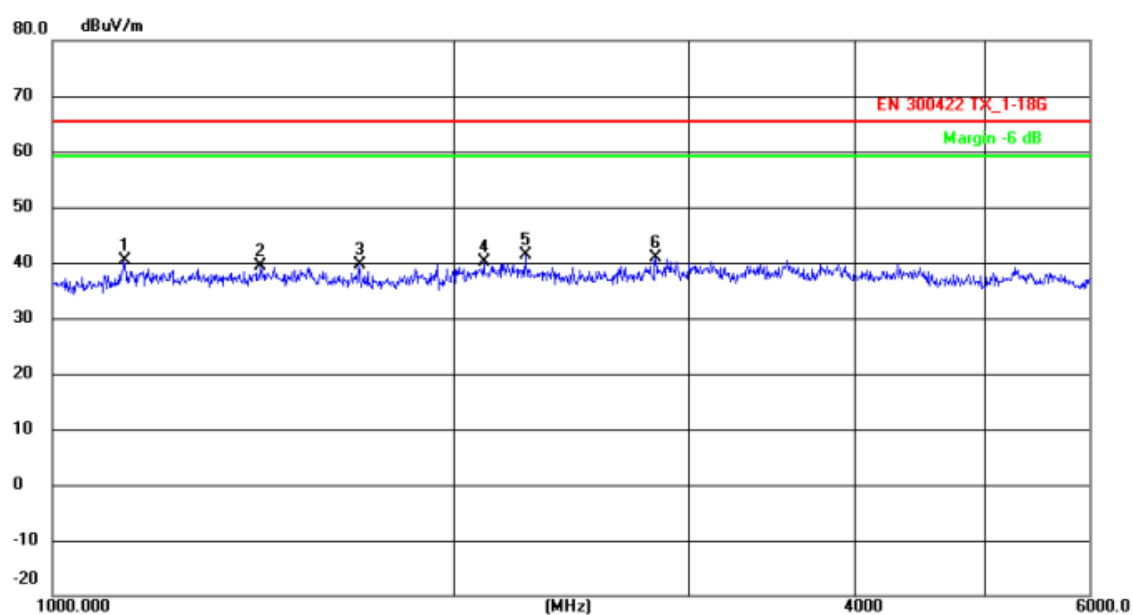
Channel 25 / 560.225MHz

Horizontal



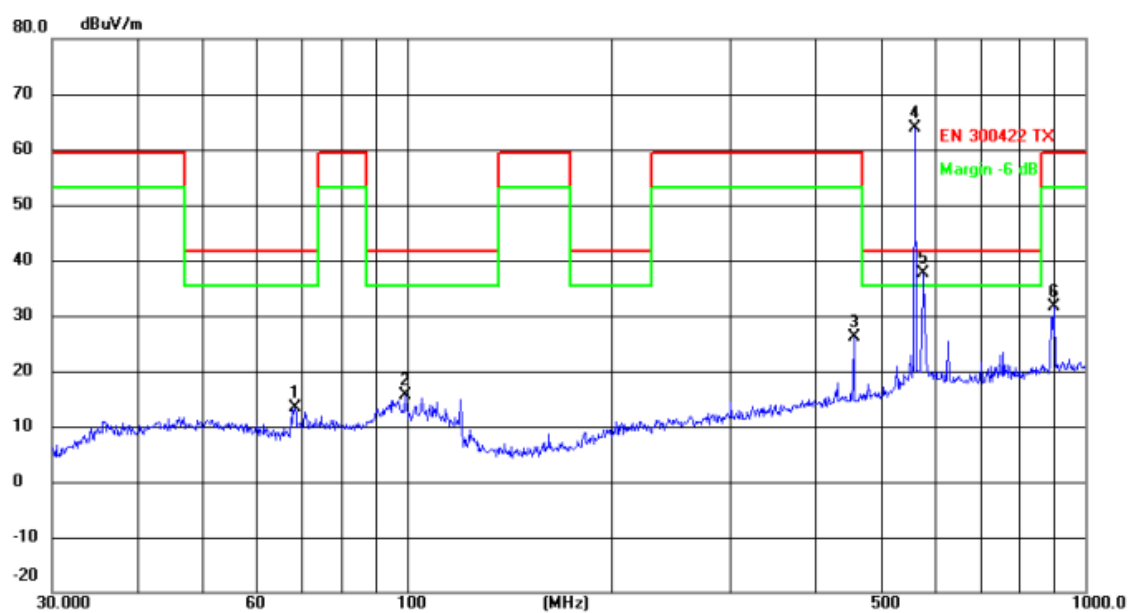
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	103.8054	29.69	-17.59	12.10	41.28	-29.18	QP
2	129.9225	29.46	-21.03	8.43	41.28	-32.85	QP
3	455.9057	39.76	-12.50	27.26	59.24	-31.98	QP
4	528.2458	33.88	-11.34	22.54	41.28	-18.74	QP
5	560.6928	75.94	-10.46	65.48	41.28	24.20	peak
6	576.6443	40.13	-10.03	30.10	41.28	-11.18	QP

Horizontal



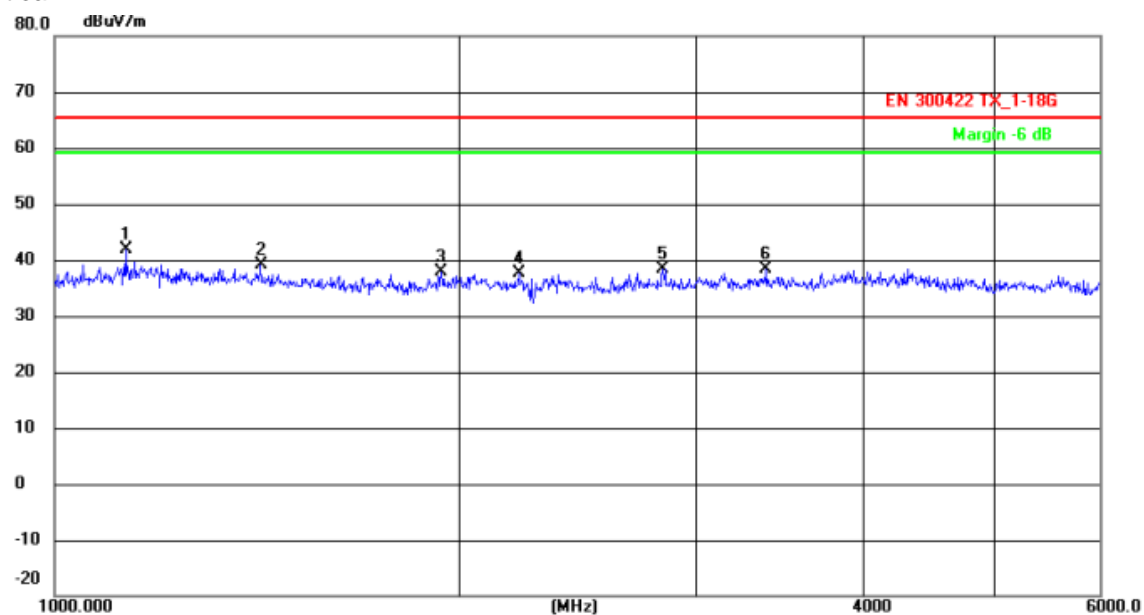
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1131.599	44.29	-3.93	40.36	65.25	-24.89	peak
2	1433.535	43.86	-4.52	39.34	65.25	-25.91	peak
3	1696.503	42.05	-2.52	39.53	65.25	-25.72	peak
4	2107.225	10.61	29.42	40.03	65.25	-25.22	peak
5	2263.794	10.62	30.78	41.40	65.25	-23.85	peak
6	2837.161	7.51	33.26	40.77	65.25	-24.48	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	68.3907	32.89	-19.54	13.35	41.28	-27.93	QP
2	99.5279	33.23	-17.49	15.74	41.28	-25.54	QP
3	455.9057	38.68	-12.50	26.18	59.24	-33.06	QP
4	560.6928	74.41	-10.46	63.95	41.28	22.67	peak
5	576.6443	47.77	-10.03	37.74	41.28	-3.54	QP
6	900.1473	38.74	-7.19	31.55	59.24	-27.69	QP

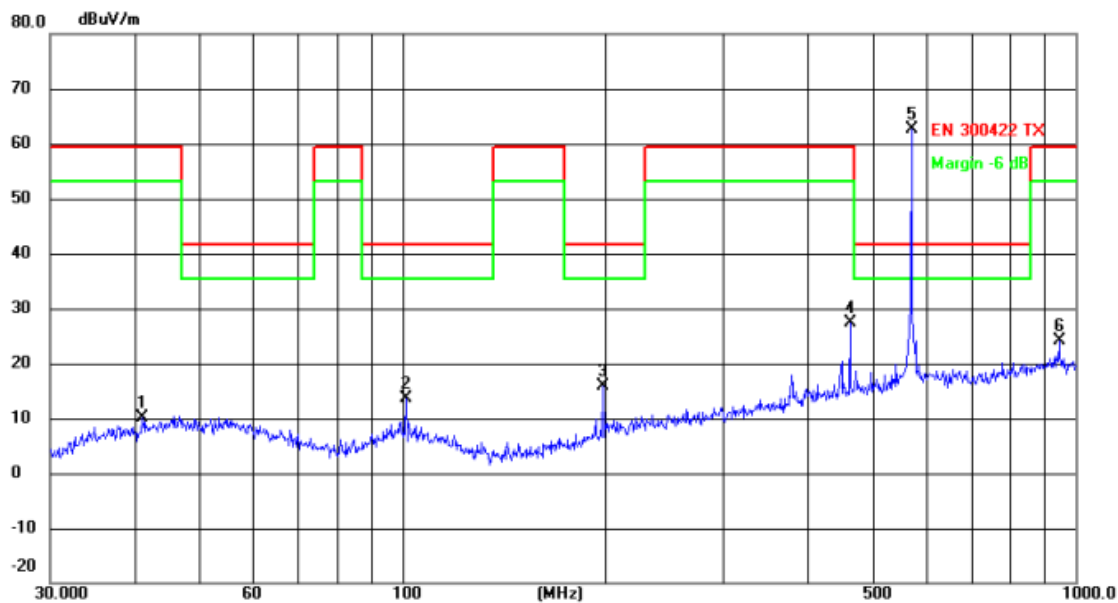
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1129.572	45.85	-3.93	41.92	65.25	-23.33	peak
2	1423.298	43.66	-4.60	39.06	65.25	-26.19	peak
3	1940.510	39.66	-1.69	37.97	65.25	-27.28	peak
4	2215.640	7.30	30.42	37.72	65.25	-27.53	peak
5	2837.161	5.18	33.26	38.44	65.25	-26.81	peak
6	3387.825	38.29	0.00	38.29	65.25	-26.96	peak

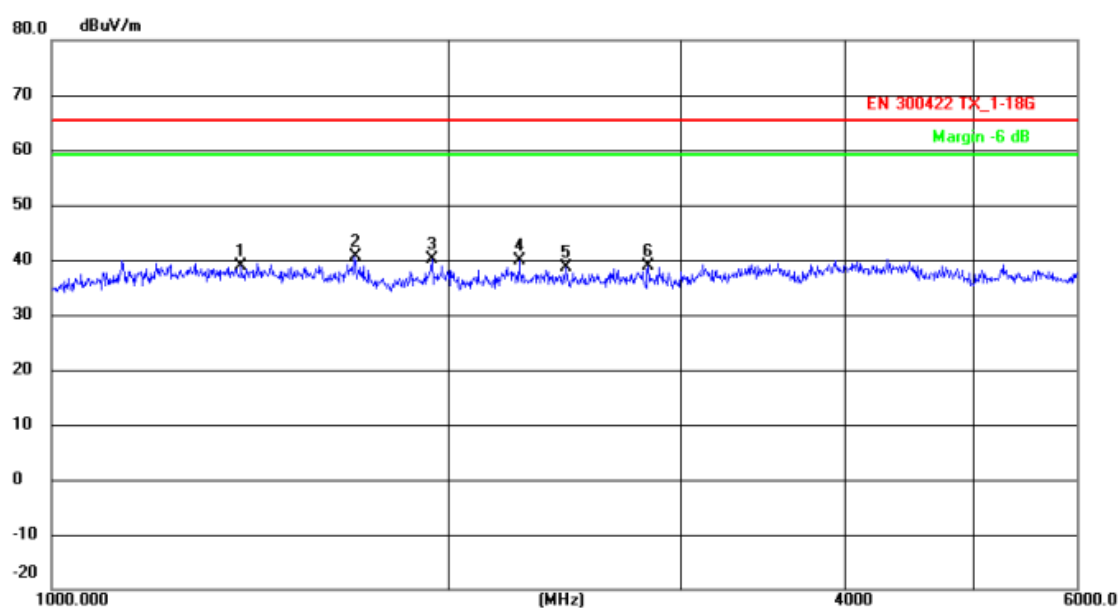
Channel 32 / 569.425MHz

Horizontal



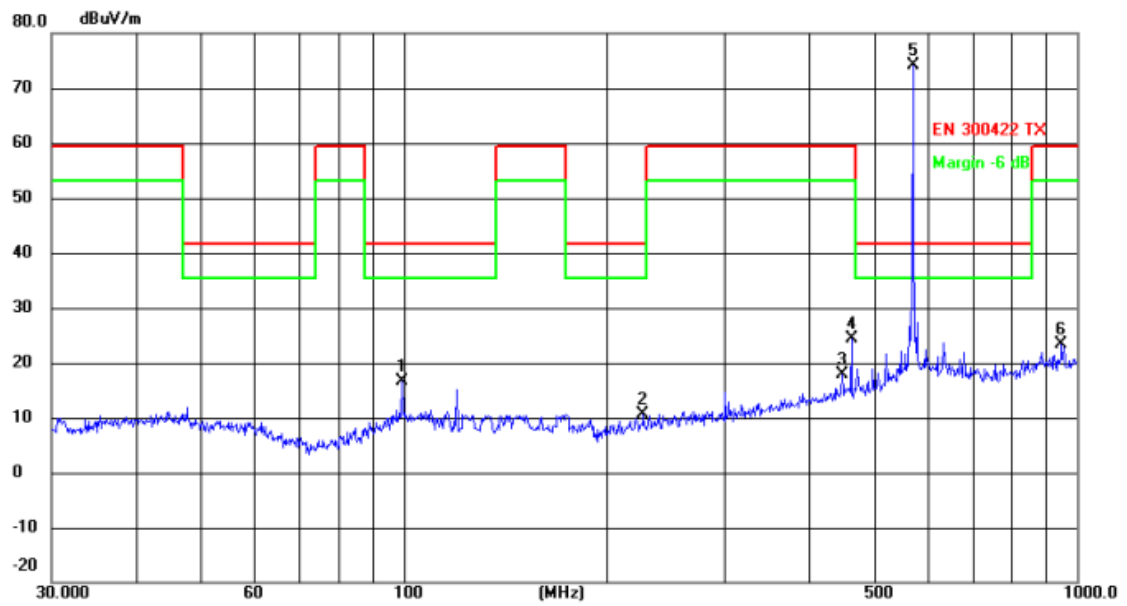
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	41.1320	26.34	-16.19	10.15	59.24	-49.09	QP
2	101.2885	31.19	-17.46	13.73	41.28	-27.55	QP
3	198.5879	33.62	-17.67	15.95	41.28	-25.33	QP
4	462.3455	39.86	-12.44	27.42	59.24	-31.82	QP
5	570.6100	72.84	-10.19	62.65	41.28	21.37	peak
6	945.4400	31.19	-7.03	24.16	59.24	-35.08	QP

Horizontal



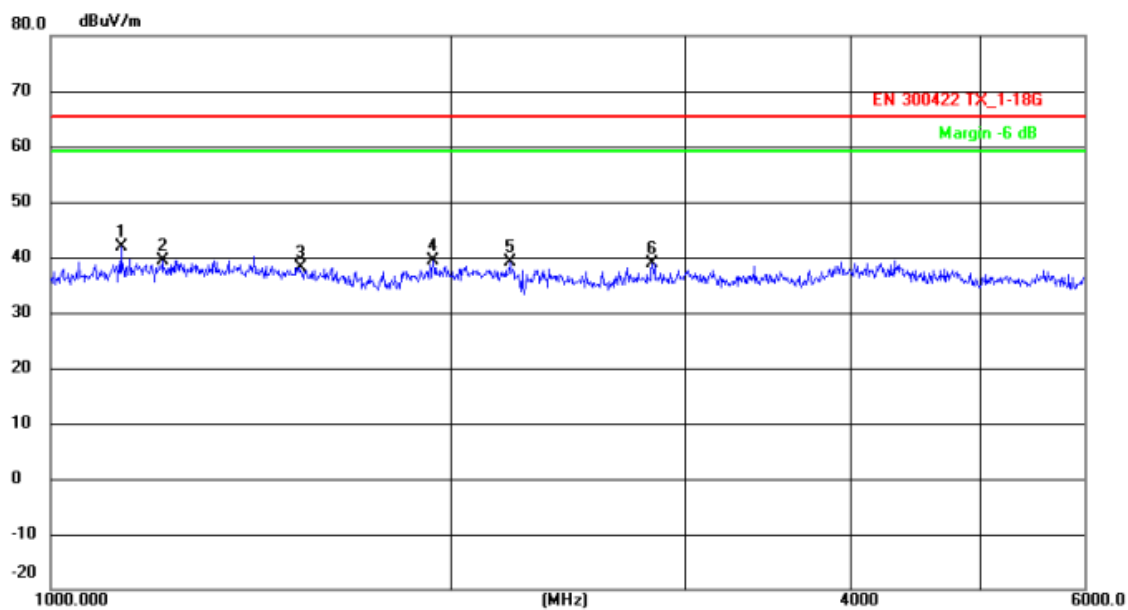
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1393.022	43.63	-4.84	38.79	65.25	-26.46	peak
2	1696.503	43.05	-2.52	40.53	65.25	-24.72	peak
3	1943.990	41.69	-1.68	40.01	65.25	-25.24	peak
4	2263.794	9.12	30.78	39.90	65.25	-25.35	peak
5	2458.283	6.47	32.18	38.65	65.25	-26.60	peak
6	2837.161	5.51	33.26	38.77	65.25	-26.48	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	99.5279	34.01	-17.49	16.52	41.28	-24.76	QP
2	226.8935	27.31	-16.69	10.62	41.28	-30.66	QP
3	447.9821	30.35	-12.56	17.79	59.24	-41.45	QP
4	462.3455	36.70	-12.44	24.26	59.24	-34.98	QP
5	570.6100	84.35	-10.19	74.16	41.28	32.88	peak
6	948.7608	30.37	-7.02	23.35	59.24	-35.89	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1129.572	45.85	-3.93	41.92	65.25	-23.33	peak
2	1213.502	45.16	-5.83	39.33	65.25	-25.92	peak
3	1540.049	41.81	-3.61	38.20	65.25	-27.05	peak
4	1940.510	41.16	-1.69	39.47	65.25	-25.78	peak
5	2215.640	8.80	30.42	39.22	65.25	-26.03	peak
6	2837.161	5.68	33.26	38.94	65.25	-26.31	peak

Note: 1). All detected emissions are more than 20 dB below the limit, In addition to main frequency.

2). Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

5.4.Frequency Stability

Test Requirement:FCC CFR 47 Part 74.e) 4)

Test Method:FCC CFR 47 Part 2.1055

Requirements:+/-50 ppm

(e) For low power auxiliary stations operating in the bands allocated for TV broadcasting, the following technical requirements apply:

(4) The frequency tolerance of the transmitter shall be 0.005 percent.

Test Procedure:

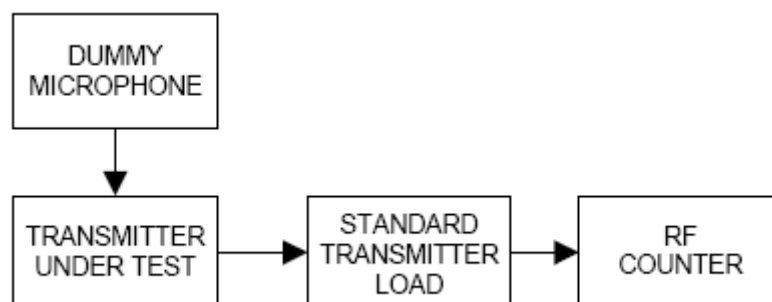
Frequency stability versus Environmental Temperature

The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators.

The EUT was placed inside the temperature chamber. After the temperature stabilized for approximately 20 minutes, the frequency of the output signal was recorded from the counter.

Frequency Stability versus Input Voltage

At room temperature ($25 \pm 5^{\circ}\text{C}$), an external variable DC power supply was connected to the EUT. The frequency of the transmitter was measured for 115%, 100% and 85% of the nominal operating input voltage. For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Result:

Assigned Frequency: 570.225 MHz,		
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within +/- 28.51 kHz (KHz)
50	3.0	+25.3
40	3.0	+25.2
30	3.0	+25.4
20	3.0	+25.5
10	3.0	+25.6
0	3.0	+25.7
-10	3.0	+25.2
-20	3.0	+25.4
-30	3.0	+25.6
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within Max +/- 28.51 kHz (KHz)
25	3.0	+25.1
25	2.7	+25.3
25	3.3	+25.1

Assigned Frequency: 578.375 MHz,		
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within +/- 29.36 kHz (KHz)
50	3.0	+25.2
40	3.0	+25.4
30	3.0	+25.8
20	3.0	+25.7
10	3.0	+25.2
0	3.0	+25.4
-10	3.0	+25.6
-20	3.0	+25.9
-30	3.0	+25.0
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within Max +/- 29.36 kHz (KHz)
25	3.0	+25.3
25	2.7	+25.5
25	3.3	+25.1

Assigned Frequency: 585.800 MHz		
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within +/- 30.26 kHz (KHz)
50	3.0	+25.4
40	3.0	+25.2
30	3.0	+25.3
20	3.0	+25.6
10	3.0	+25.1
0	3.0	+25.0
-10	3.0	+25.4
-20	3.0	+25.5
-30	3.0	+25.2
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within Max +/- 30.26 kHz (KHz)
25	3.0	+25.3
25	2.7	+25.4
25	3.3	+25.6

Assigned Frequency: 554.250 MHz,		
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within +/- 28.51 kHz (KHz)
50	3.0	+25.7
40	3.0	+25.4
30	3.0	+25.8
20	3.0	+25.5
10	3.0	+25.2
0	3.0	+25.9
-10	3.0	+25.1
-20	3.0	+25.3
-30	3.0	+25.5
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within Max +/- 28.51 kHz (KHz)
25	3.0	+25.2
25	2.7	+25.7
25	3.3	+25.1

Assigned Frequency: 560.225 MHz,		
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within +/- 29.36 kHz (KHz)
50	3.0	+25.3
40	3.0	+25.6
30	3.0	+25.4
20	3.0	+25.1
10	3.0	+25.7
0	3.0	+25.2
-10	3.0	+25.8
-20	3.0	+25.6
-30	3.0	+25.4
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within Max +/- 29.36 kHz (KHz)
25	3.0	+25.1
25	2.7	+25.5
25	3.3	+25.4

Assigned Frequency: 569.425 MHz		
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within +/- 30.26 kHz (KHz)
50	3.0	+25.3
40	3.0	+25.1
30	3.0	+25.1
20	3.0	+25.5
10	3.0	+25.2
0	3.0	+25.1
-10	3.0	+25.5
-20	3.0	+25.8
-30	3.0	+25.1
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed Total emission within Max +/- 30.26 kHz (KHz)
25	3.0	+25.3
25	2.7	+25.4
25	3.3	+25.8

Battery end point: 3.0Vdc

The results: The unit does meet the FCC requirements.

5.5.Modulation Characteristics

Test Requirement:FCC CFR 47 Part 74.e) 3)

Test Method:FCC CFR 47 Part 2.1047 & TIA/EIA 603 E 2016:Land Mobile $\pi/4$ -DQPSK or PM
Communications Equipment Measurement and Performance Standards

Requirements:

(e) For low power auxiliary stations operating in the bands allocated for TV broadcasting, the following technical requirements apply:

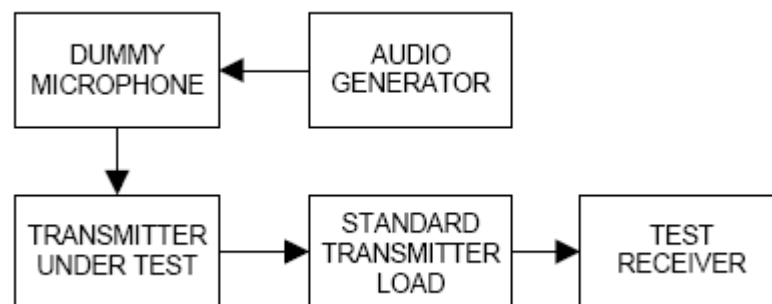
(3) Any form of modulation may be used. A maximum deviation of ± 75 kHz is permitted when frequency modulation is employed.

Test Procedure:

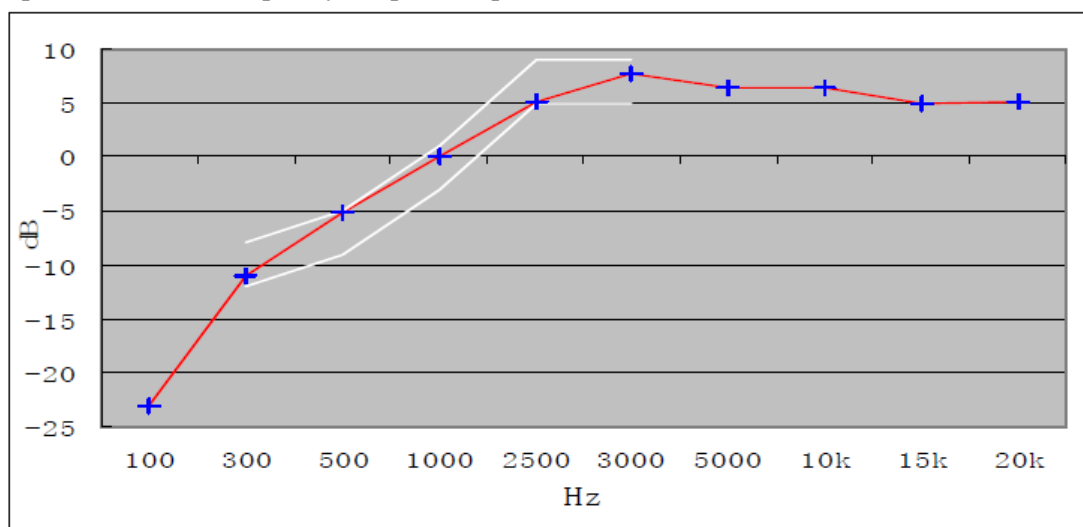
Audio Frequency Response

The RF output of the transceiver was connected to the input of FSP 30 with FM deviation module through sufficient attenuation so as not to overload the meter or distort the reading. An audio signal generator was connected to the audio input of microphone.

The audio signal input level was adjusted to obtain 20% of the maximum rated system deviation at 1 kHz, and recorded as DEV REF . With the audio signal generator level unchanged, set the generator frequency between 100 to 5000 Hz. The transmitter deviations (DEV FREQ) were measured and the audio frequency response was calculated as $20\log_{10} [\text{DEV FREQ} / \text{DEV REF}]$



The plot(s) of Audio Frequency Response is presented hereinafter as reference.



0dB=10mV at 1kHz (20% of the maximum rated system deviation).

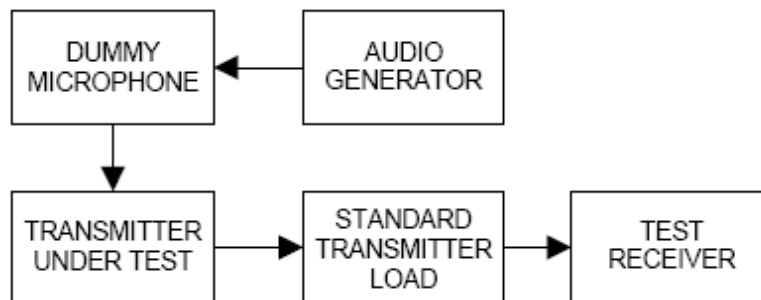
Test Result:

Pass. The EUT is a FM modulation UHF Wireless Microphone System.

Modulation Limiting

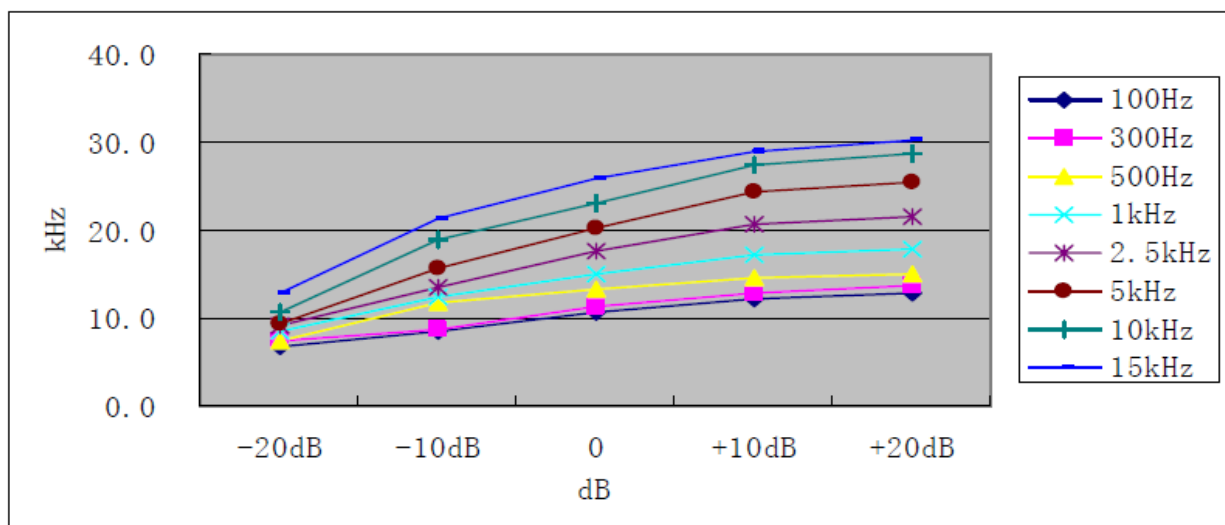
- Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 0.25 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
- Apply a **1000 Hz** modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain **60% of full rated system deviation**.
- Increase the level from the audio frequency generator by 20 dB in one step (rise time between the 10% and 90% points shall be 0.1 second maximum).
- Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level.

With the level from the audio frequency generator held constant at the level obtained in step e), slowly vary the audio frequency from 100 to 15k Hz and observe the steady-state deviation. Record the maximum deviation.



Test at five different modulating frequencies (100Hz, 300Hz, 500Hz, 1KHz, 2.5kHz, 5kHz, 10kHz, 15kHz), the output level of the audio generator was varied up to 1V and the FM deviation level was recorded.

Positive peak deviation



Test Result:

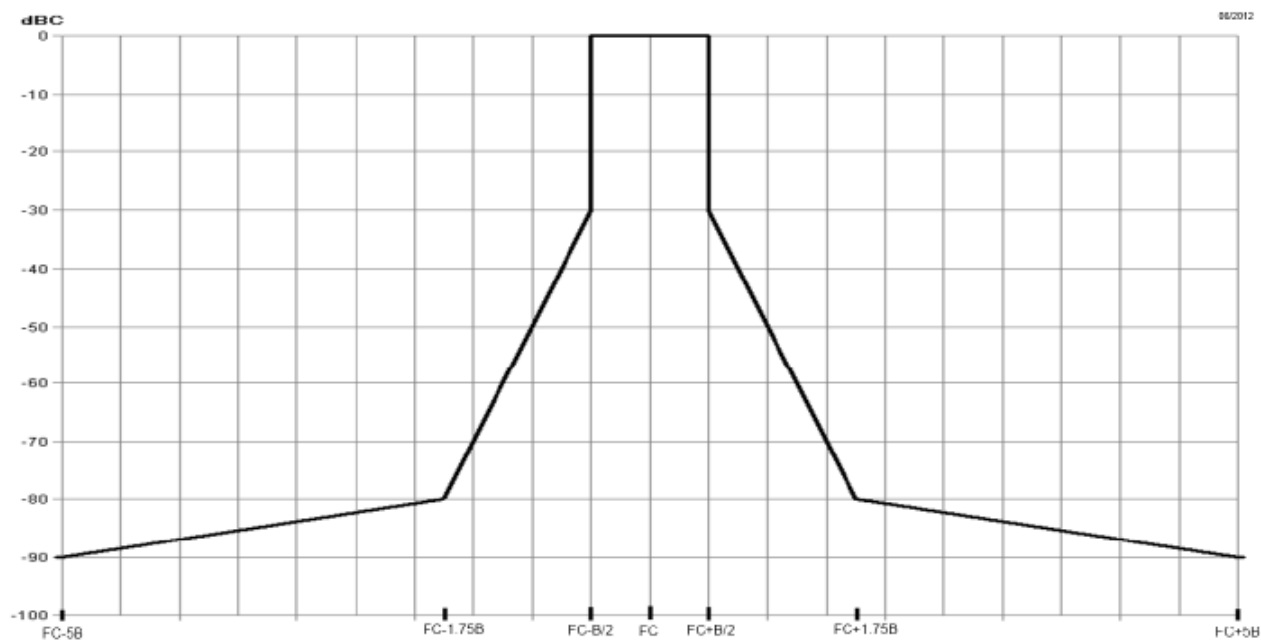
Pass. The EUT is a FM modulation UHF Wireless Microphone System.

5.6.Necessary bandwidth (BN)

5.6.1.Measurement:

Measurement parameter	
Detector:	Peak - Quasi Peak / Average
Sweep time:	Auto
Resolution bandwidth:	1 kHz
Video bandwidth:	1 kHz
Span:	Fc-1MHz to fc+1MHz(2MHz)
Trace mode:	Max Hold

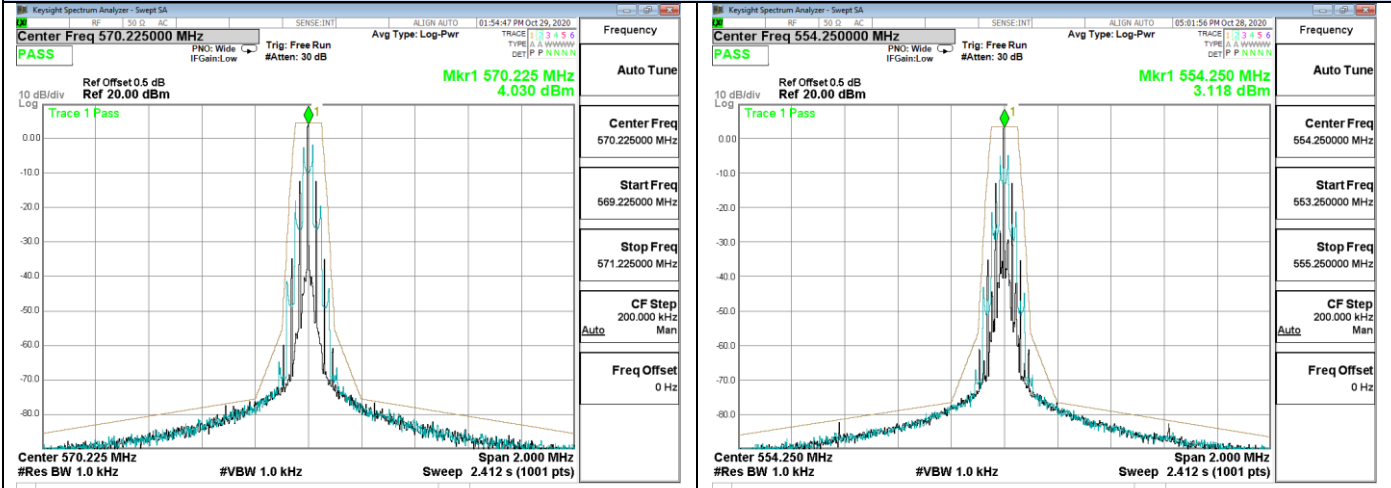
5.6.2.Limits:



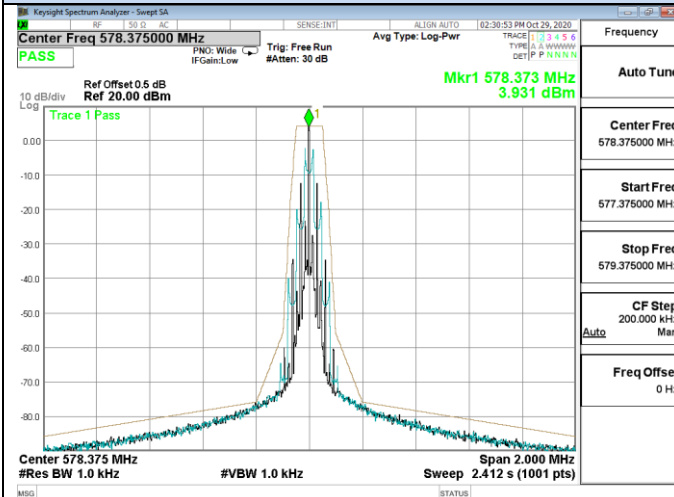
5.6.3. Results:

Temperature	24.6°C	Humidity	54.1%
Test Engineer	Diamond Lu	Configurations	FM

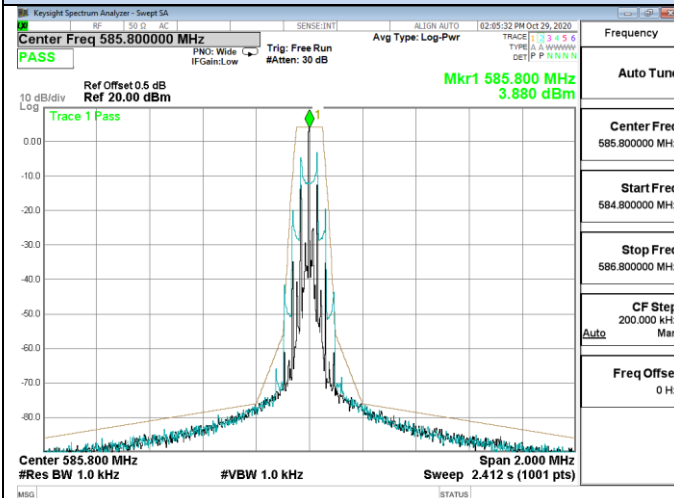
Necessary bandwidth



Channel 01 / 570.225 MHz

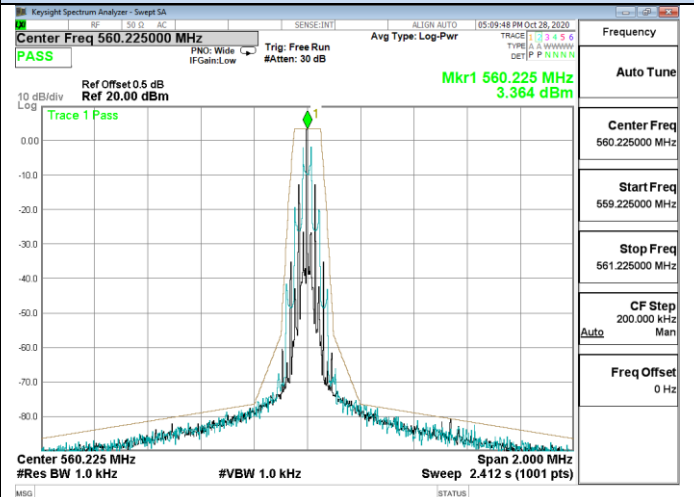


Channel 09 / 578.375 MHz

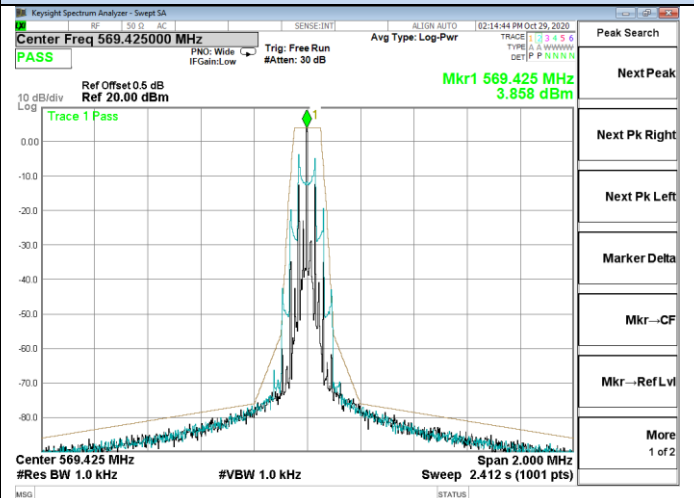


Channel 16 / 585.800 MHz

Channel 17 / 554.250 MHz



Channel 25 / 560.225 MHz



Channel 32 / 569.425 MHz

6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49061051	2020-06-11	2021-06-10
2	DC Power Supply	Agilent	E3642A	N/A	2019-11-14	2020-11-13
3	Temperature & Humidity Chamber	GUANGZHOU GOGN WEN	GDS-100	70932	2020-10-09	2021-10-08
4	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
5	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-09-27	2021-09-26
6	Positioning Controller	MF	MF-7082	/	2020-06-12	2021-06-11
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2020-07-25	2021-07-24
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2020-07-25	2021-07-24
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2020-07-01	2021-06-30
10	EMI Test Receiver	R&S	ESR 7	101181	2020-06-12	2021-06-11
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13
12	AMPLIFIER	QuieTek	QTK	CHM/0809065	2019-11-14	2020-11-13
13	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-12	2021-06-11
14	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-12	2021-06-11
15	EMI Test Receiver	R&S	ESR 7	101181	2020-06-12	2021-06-11
16	Artificial Mains	R&S	ENV216	101288	2020-06-12	2021-06-11
17	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2020-06-11	2021-06-10

Note: All equipment is calibrated through GUANGZHOU LISAI CALIBRATION AND TEST CO.,LTD.

7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----