

# FCC PART 15.231

## TEST REPORT

For

### **Autel Intelligent Tech. Corp., Ltd.**

6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan, Shenzhen, 518055, China

**FCC ID: WQ8301B433**

<b>Report Type:</b> Original Report	<b>Product Type:</b> MX-Sensor
<b>Test Engineer:</b> Sewen Guo	<i>Sewen Guo</i>
<b>Report Number:</b> RSZ151010010-00	
<b>Report Date:</b> 2016-01-14	
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**Note:** This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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## GENERAL INFORMATION

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

The *Autel Intelligent Tech. Corp., Ltd.*'s product, model number: 8930C (FCC ID: WQ8301B433) (or the "EUT") in this report was a *MX-Sensor*, which was measured approximately: 54.2 mm (L) x 29.4 mm (W) x 19.1 mm (H), rated input voltage: DC 3V battery.

*Note: This series products model: 8930C2, 8930J and 8930C, only model number different and shell shape have little difference. Model 8930C was selected for fully testing, the detailed information can be referred to the attached declaration letter that stated and guaranteed by the applicant.*

*\*All measurement and test data in this report was gathered from production sample serial number: 1506747 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2015-10-10.*

### Objective

This test report is prepared on behalf of *Autel Intelligent Tech. Corp., Ltd.* All the test measurements were performed according to the measurement procedure described in ANSI C63.10 - 2013.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.209, 15.35(c) and 15.231 rules.

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

No related submittal(s).

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10 - 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted 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.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.10 - 2013.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

F I N A L

## SYSTEM TEST CONFIGURATION

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### Justification

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

### Special Accessories

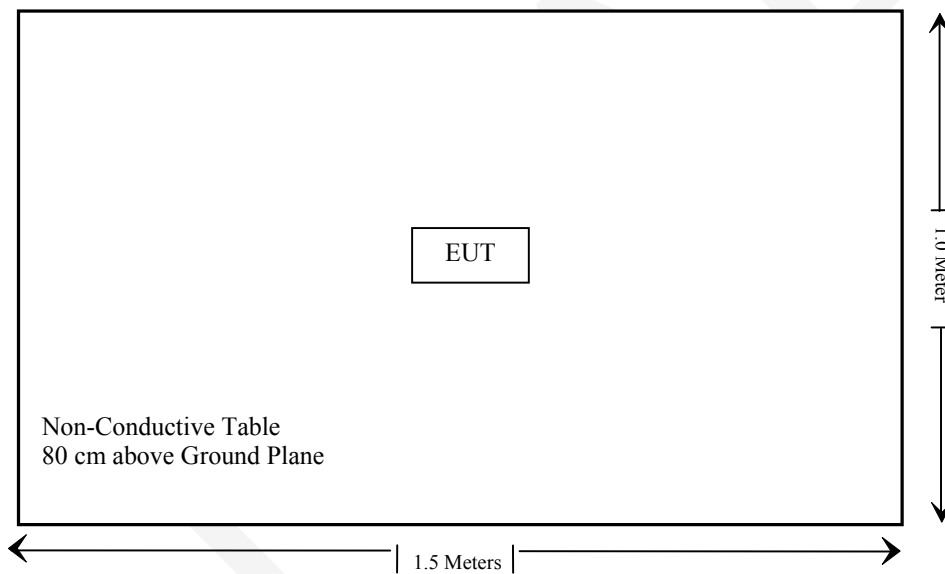
No special accessories was used

### Equipment Modifications

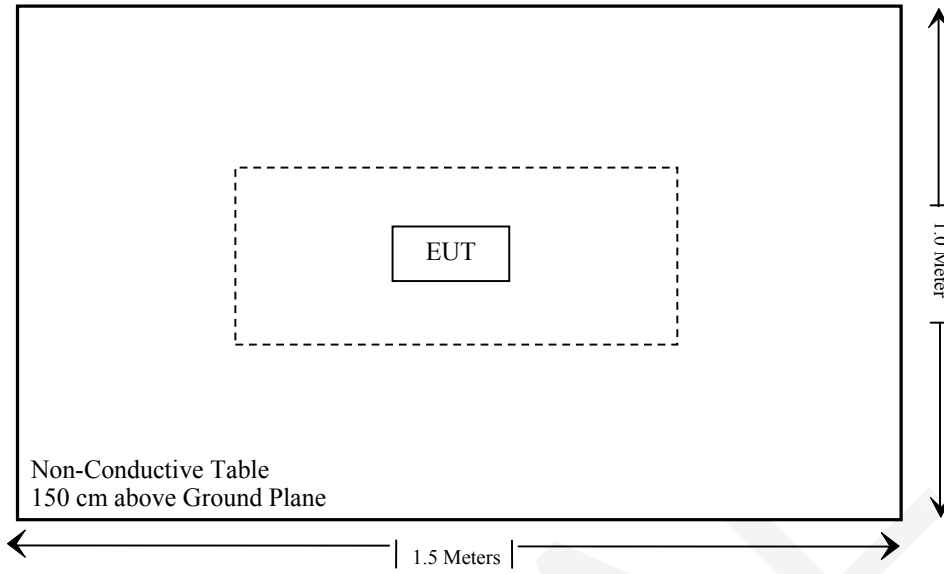
No modification was made to the EUT.

### Block Diagram of Test Setup

Below 1GHz:



Above 1GHz:



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Not Applicable
§15.205, §15.209, §15.231(b)(e)	Radiated Emissions	Compliance
§15.231 (c)	20dB Emission Bandwidth	Compliance
§15.231 (a) (2)	Deactivation	Compliance
§15.231 (e)	Transmission Time, Silent period	Compliance

Not Applicable: The EUT is powered by battery only.

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## **FCC §15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

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.

### **Antenna Connector Construction**

The EUT has an internal antenna arrangement which was permanently attached and the antenna gain is -4dBi; fulfill the requirement of this section. Please refer to EUT photos.

**Result:** Compliant.

F I N A L



**FCC §15.205, §15.209, §15.231 (b), §15.231 (e) - RADIATED EMISSIONS****Applicable Standard**

FCC §15.205, §15.209, §15.231 (b), §15.231 (e)

According to FCC §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field Strength of Fundamental (Microvolts /meter)	Field Strength of spurious emissions ((Microvolts /meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750**	125 to 375**
174-260	3750	375
260-470	3750 to 12500**	375 to 1250**
Above 470	12500	1250

\*Linear interpolations.

The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

According to §15.231 (e), intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following:

Fundamental frequency (MHz)	Field Strength of Fundamental (Microvolts /meter)	Field Strength of spurious emissions (Microvolts /meter)
40.66-40.70	1000	100
70-130	500	50
130-174	500 to 1500**	50 to 150**
174-260	1500	150
260-470	1500 to 5000**	150 to 500**
Above 470	5000	500

\*\*Linear interpolations.

The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

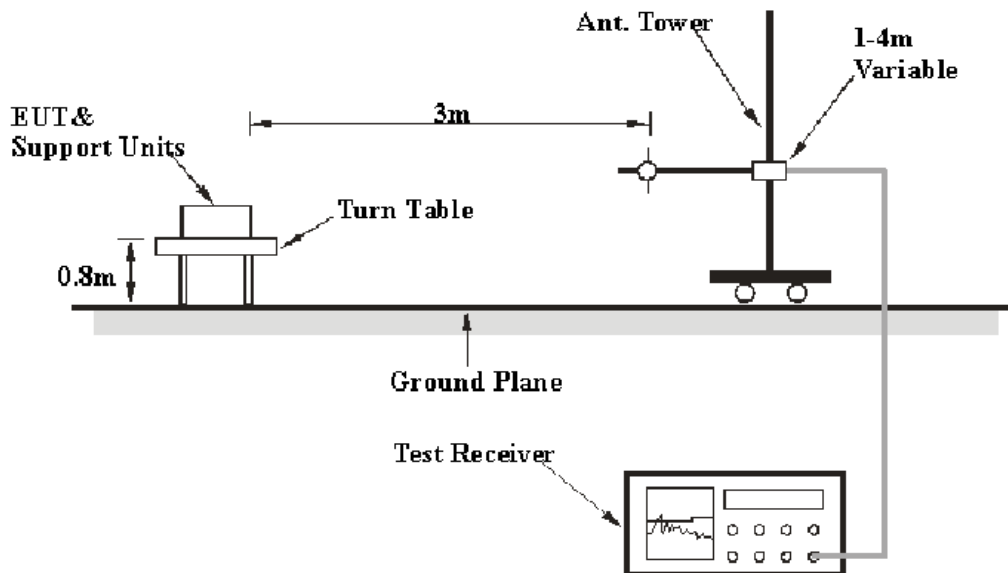
## Measurement Uncertainty

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

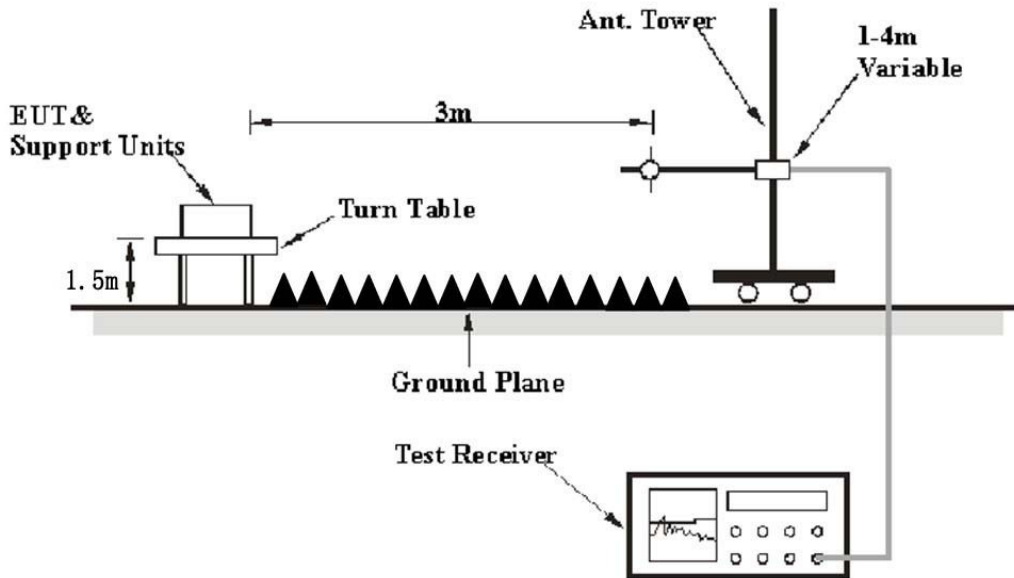
Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, and it will not be taken into consideration for the test data recorded in the report.

## EUT Setup

**Below 1 GHz:**



**Above 1 GHz:**



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10 - 2013. The specification used was the FCC 15 § 15.209, 15.205 and 15.231.

**EMI Test Receiver Setup**

The system was investigated from 30 MHz to 5 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK

**Test Procedure**

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

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

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2015-11-03	2016-11-03
HP	Amplifier	HP8447E	1937A01046	2015-05-06	2016-05-06
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-12-11	2015-12-11
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2014-12-29	2017-12-28
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2015-06-13	2016-06-13

\* **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).

### Corrected Amplitude & Margin Calculation

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

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

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 5.8 dB means the emission is 5.8 dB below the limit. The equation for margin calculation is as follows:

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

### Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.205, §15.209, §15.231 (b)(e), the worst margin reading as below:

**15.50 dB at 3905.28 MHz in the Vertical polarization, ASK modulation**

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{lim} + U_{cispr}$$

In BACL,  $U_{(L_m)}$  is less than  $+ U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

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

<b>Temperature:</b>	23~26 °C
<b>Relative Humidity:</b>	47~50 %
<b>ATM Pressure:</b>	100.5~101.0 kPa

The testing was performed by Sewen Guo on 2015-11-02 and 2015-11-21.

Test mode: Transmitting

Pre-scan with the three models (8930C, 8930J, 8930C2), the worst case is model 8930C.

**30MHz-5GHz (ASK modulation):**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB $\mu$ V/m)	FCC Part 15.231(b)/205/209		
	Reading (dB $\mu$ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dB $\mu$ V/m)	Margin (dB)	Comment
433.92	80.05	PK	217	1.2	H	-9.87	70.18	100.8	30.62	Fundamental
433.92	80.29	PK	263	2.0	V	-9.87	70.42	100.8	30.38	Fundamental
1301.76	49.26	PK	174	1.4	H	-0.38	48.88	74.00	25.12	Harmonic
1301.76	50.27	PK	339	1.6	V	-0.38	49.89	74.00	24.11	Harmonic
1735.68	51.39	PK	16	2.2	H	1.08	52.47	80.8	28.33	Harmonic
1735.68	50.16	PK	347	1.9	V	1.08	51.24	80.8	29.56	Harmonic
2603.52	48.27	PK	249	1.7	H	6.4	54.67	80.8	26.13	Harmonic
2603.52	48.15	PK	127	2.3	V	6.4	54.55	80.8	26.25	Harmonic
3037.44	47.69	PK	223	2.1	H	8.58	56.27	80.8	24.53	Harmonic
3037.44	46.35	PK	87	2.3	V	8.58	54.93	80.8	25.87	Harmonic
3905.28	45.13	PK	355	1.6	H	10.49	55.62	74.00	18.38	Harmonic
3905.28	46.27	PK	22	1.4	V	10.49	56.76	74.00	17.24	Harmonic
4339.20	43.21	PK	246	2.2	H	12.31	55.52	74.00	18.48	Harmonic
4339.20	42.79	PK	230	1.8	V	12.31	55.10	74.00	18.90	Harmonic

Field Strength of Average Emission							
Frequency (MHz)	Peak Measurement @3m (dB $\mu$ V/m)	Polar (H/V)	Duty Cycle Correction Factor (dB)	Corrected Amplitude (dB $\mu$ V/m)	FCC Part 15.231(b)/205/209		
					Limit (dB $\mu$ V/m)	Margin (dB)	Comment
433.92	70.18	H	-18.26	51.92	80.8	28.88	Fundamental
433.92	70.42	V	-18.26	52.16	80.8	28.64	Fundamental
1301.76	48.88	H	-18.26	30.62	54.0	23.38	Harmonic
1301.76	49.89	V	-18.26	31.63	54.0	22.37	Harmonic
1735.68	52.47	H	-18.26	34.21	60.8	26.59	Harmonic
1735.68	51.24	V	-18.26	32.98	60.8	27.82	Harmonic
2603.52	54.67	H	-18.26	36.41	60.8	24.39	Harmonic
2603.52	54.55	V	-18.26	36.29	60.8	24.51	Harmonic
3037.44	56.27	H	-18.26	38.01	60.8	22.79	Harmonic
3037.44	54.93	V	-18.26	36.67	60.8	24.13	Harmonic
3905.28	55.62	H	-18.26	37.36	54.0	16.64	Harmonic
3905.28	56.76	V	-18.26	38.50	54.0	15.50	Harmonic
4339.20	55.52	H	-18.26	37.26	54.0	16.74	Harmonic
4339.20	55.10	V	-18.26	36.84	54.0	17.16	Harmonic

**Note 1:**

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (Rx) + cable loss – amplifier factor

Margin = Limit - Corr. Amplitude

**Note 2:**

Calculate Average value based on Duty Cycle correction factor:

Ton1 = 1\*Pulses=1\*0.536ms = 0.536ms

Ton2 = 41\*Pulses=41\*0.152ms =6.232ms

Ton3 = 13\*Pulses=13\*0.283ms =3.679ms

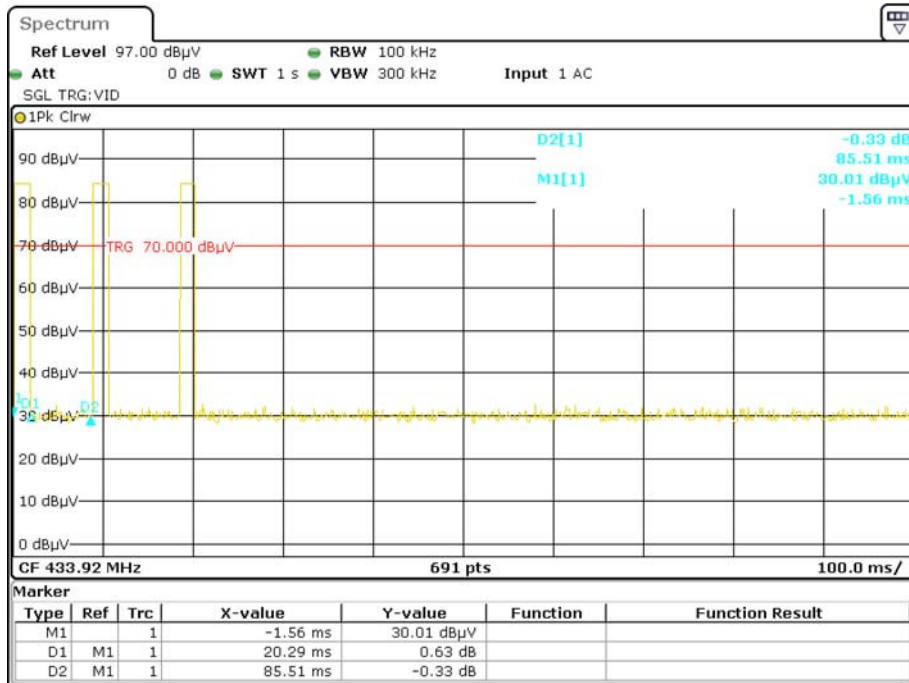
Tp = 85.51ms

Duty cycle = Ton1+ Ton2+ Ton3/Tp = (0.536+6.232+3.679)ms/85.51ms=0.122

Duty Cycle Corrected Factor = 20lg (Duty cycle) = 20lg0.122= -18.26

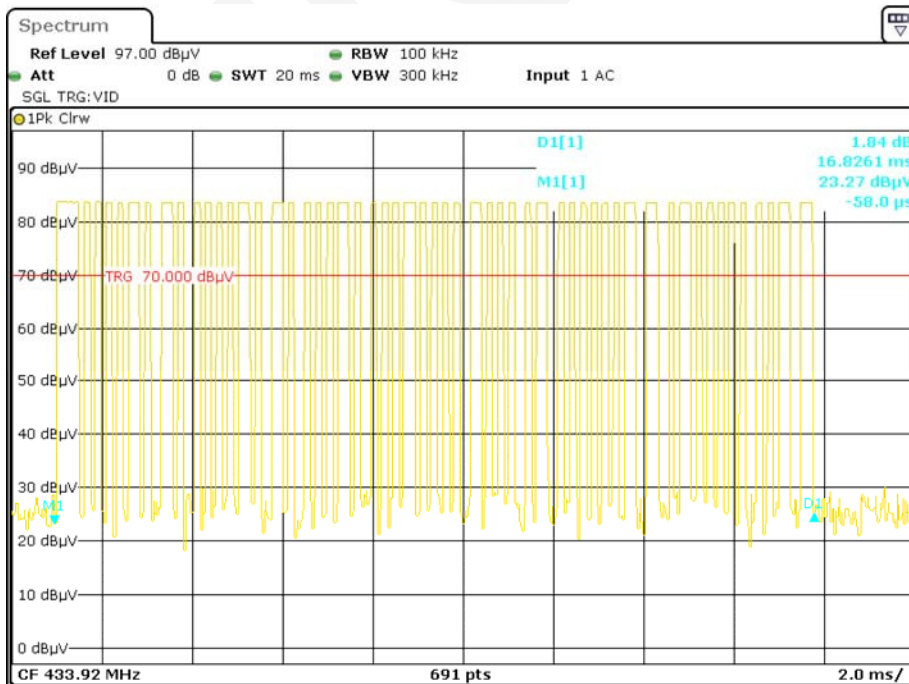
Average = Peak – Duty Cycle Corrected Factor

Duty Cycle 1



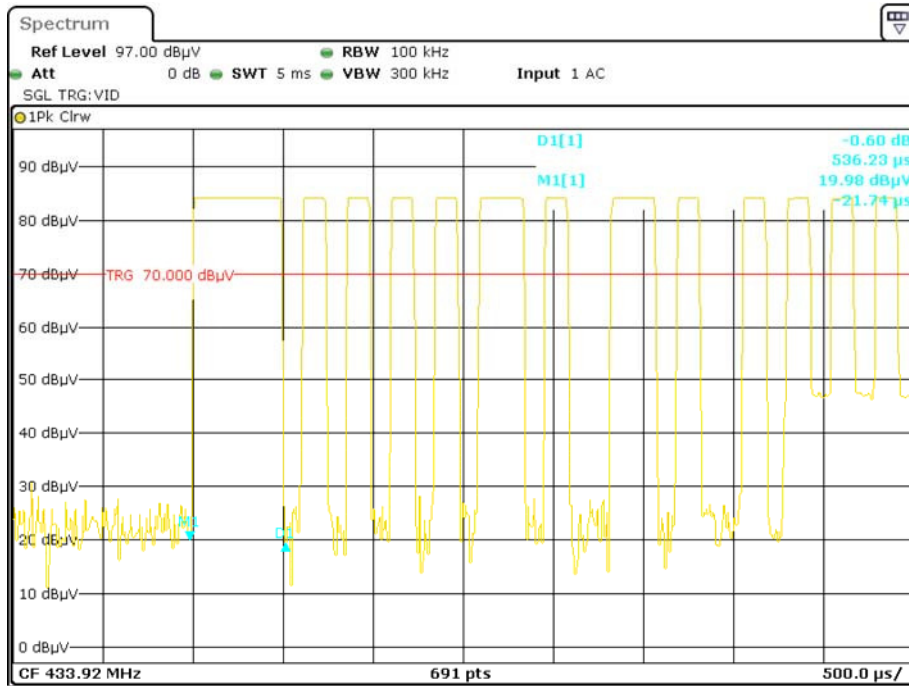
Date: 21.NOV.2015 15:33:13

Duty Cycle 2



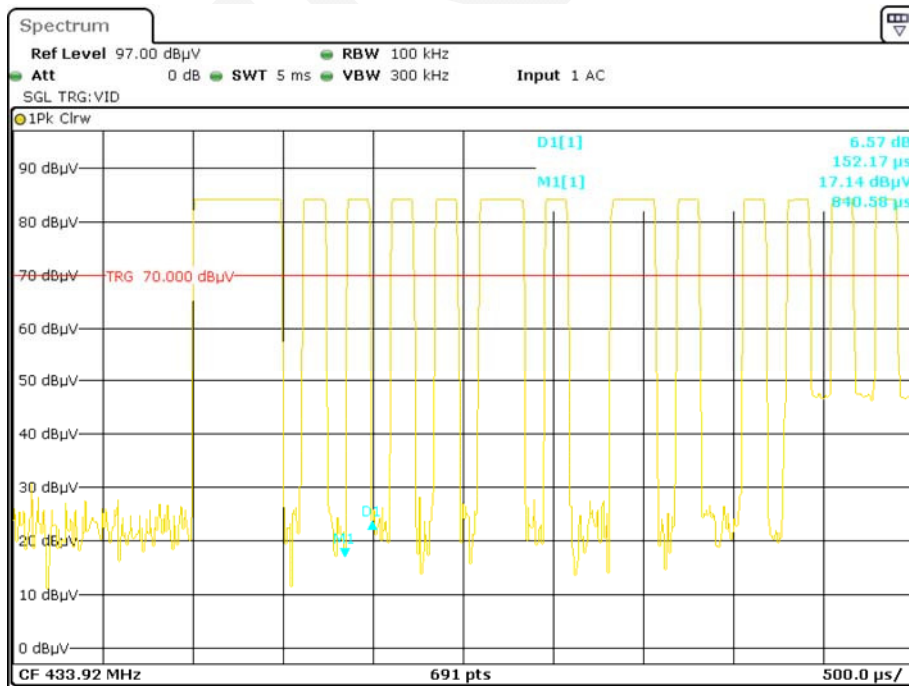
Date: 21.NOV.2015 14:16:28

### Duty Cycle 3



Date: 21.NOV.2015 14:18:32

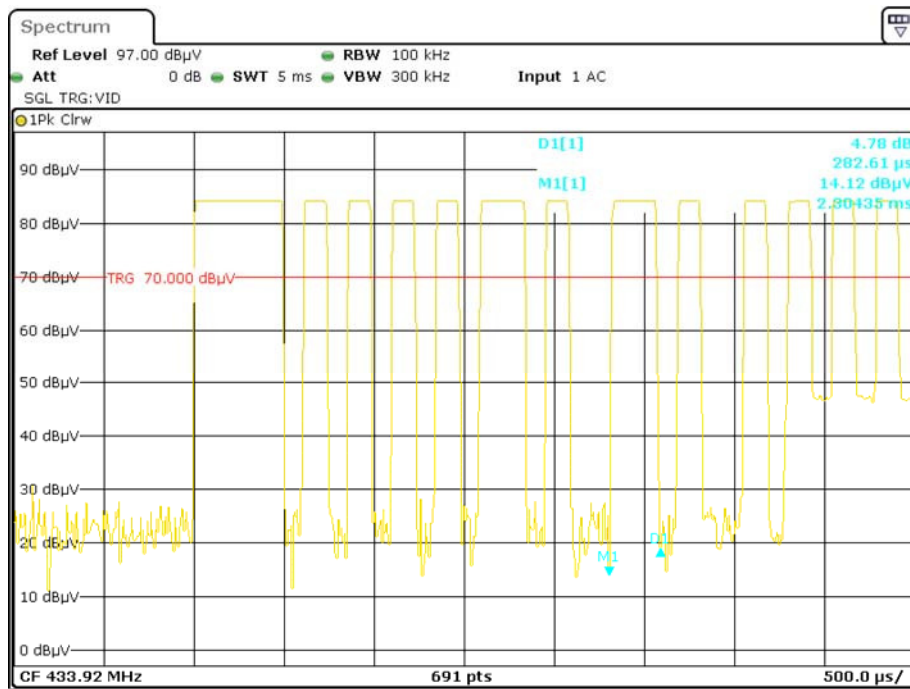
### Duty Cycle 4



Date: 21.NOV.2015 14:19:11



Duty Cycle 5



Date: 21.NOV.2015 14:19:50

30MHz-5GHz (FSK modulation):

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.231(e)/205/209		Comment
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)	
433.92	80.12	PK	232	2.5	H	-9.87	70.25	92.87	22.62	Fundamental
433.92	79.63	PK	4	2.3	V	-9.87	69.76	92.87	23.11	Fundamental
1301.76	50.27	PK	37	2.5	H	-0.38	49.89	74.00	24.11	Harmonic
1301.76	49.36	PK	154	1.2	V	-0.38	48.98	74.00	25.02	Harmonic
1735.68	48.59	PK	333	2.2	H	1.08	49.67	74.00	24.33	Harmonic
1735.68	48.63	PK	254	1.0	V	1.08	49.71	74.00	24.29	Harmonic
2169.6	48.12	PK	271	1.1	H	4.39	52.51	74.00	21.49	Harmonic
2169.6	47.28	PK	199	2.3	V	4.39	51.67	74.00	22.33	Harmonic
3037.44	46.54	PK	303	1.9	H	8.58	55.12	74.00	18.88	Harmonic
3037.44	46.36	PK	50	1.5	V	8.58	54.94	74.00	19.06	Harmonic
3905.28	43.78	PK	341	1.5	H	10.49	54.27	74.00	19.73	Harmonic
3905.28	45.09	PK	150	1.2	V	10.49	55.58	74.00	18.42	Harmonic
4339.2	42.17	PK	1	2.5	H	12.31	54.48	74.00	19.52	Harmonic
4339.2	42.25	PK	206	1.1	V	12.31	54.56	74.00	19.44	Harmonic

Field Strength of Average Emission							
Frequency (MHz)	Peak Measurement @3m (dB $\mu$ V/m)	Polar (H/V)	Duty Cycle Correction Factor (dB)	Corrected Amplitude (dB $\mu$ V/m)	FCC Part 15.231(e)/205/209		
					Limit (dB $\mu$ V/m)	Margin (dB)	Comment
433.92	70.25	H	-19.58	50.67	72.87	22.20	Fundamental
433.92	69.76	V	-19.58	50.18	72.87	22.69	Fundamental
1301.76	49.89	H	-19.58	30.31	54.00	23.69	Harmonic
1301.76	48.98	V	-19.58	29.40	54.00	24.60	Harmonic
1735.68	49.67	H	-19.58	30.09	54.00	23.91	Harmonic
1735.68	49.71	V	-19.58	30.13	54.00	23.87	Harmonic
2169.60	52.51	H	-19.58	32.93	54.00	21.07	Harmonic
2169.60	51.67	V	-19.58	32.09	54.00	21.91	Harmonic
3037.44	55.12	H	-19.58	35.54	54.00	18.46	Harmonic
3037.44	54.94	V	-19.58	35.36	54.00	18.64	Harmonic
3905.28	54.27	H	-19.58	34.69	54.00	19.31	Harmonic
3905.28	55.58	V	-19.58	36.00	54.00	18.00	Harmonic
4339.2	54.48	H	-19.58	34.90	54.00	19.10	Harmonic
4339.2	54.56	V	-19.58	34.98	54.00	19.02	Harmonic

**Note 1:**

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (Rx) + cable loss – amplifier factor

Margin = Limit - Corr. Amplitude

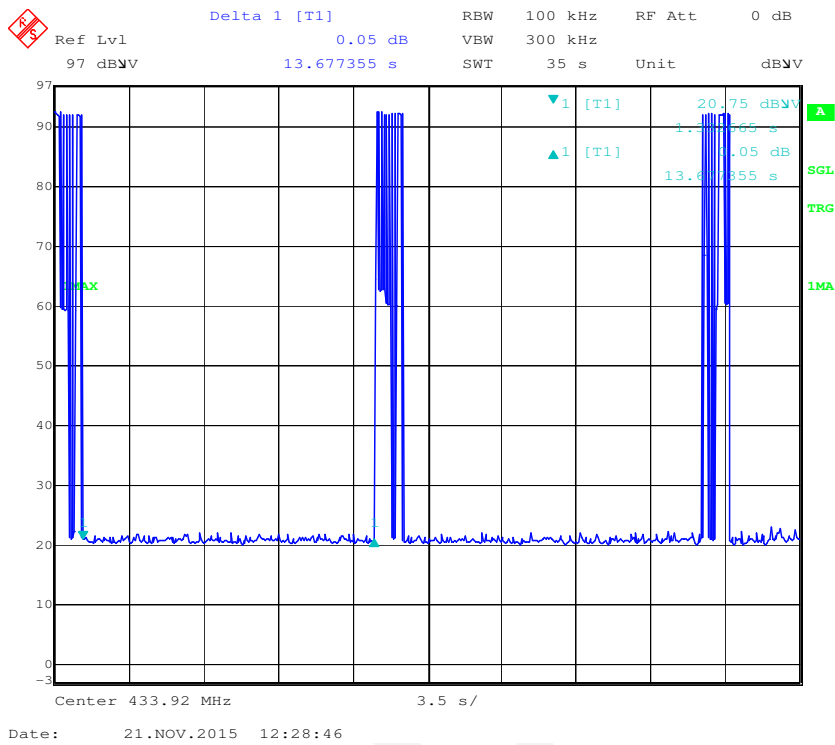
**Note 2:**

Calculate Average value based on Duty Cycle correction factor:

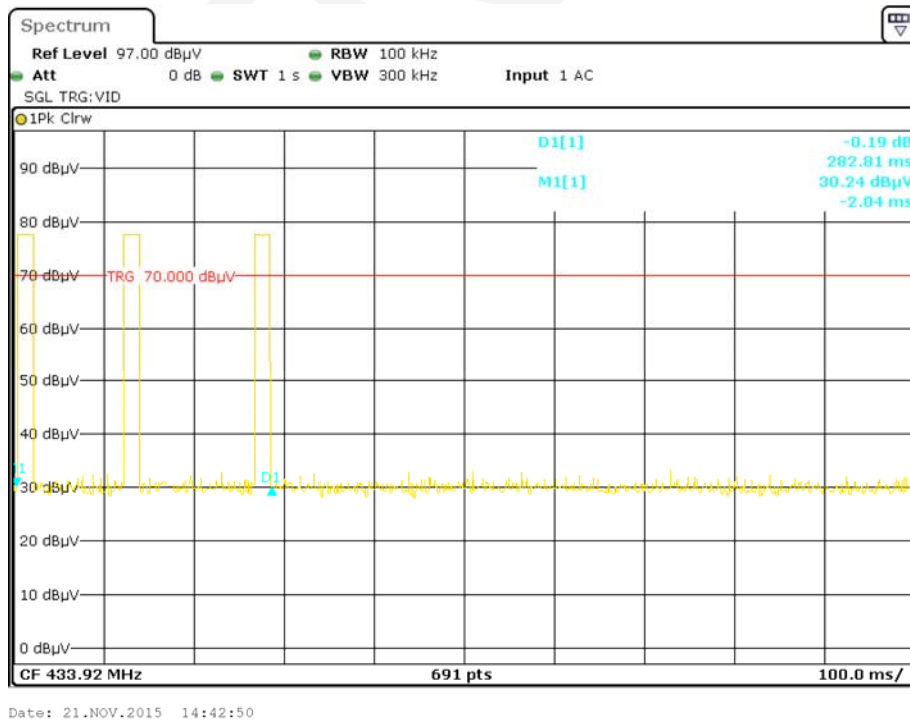
Duty cycle factor =  $20 \cdot \lg(T_{on}/T_p) = 20 \cdot \lg(10.50\text{ms}/100\text{ms}) = -19.58$

Average = Peak – Duty Cycle Corrected Factor

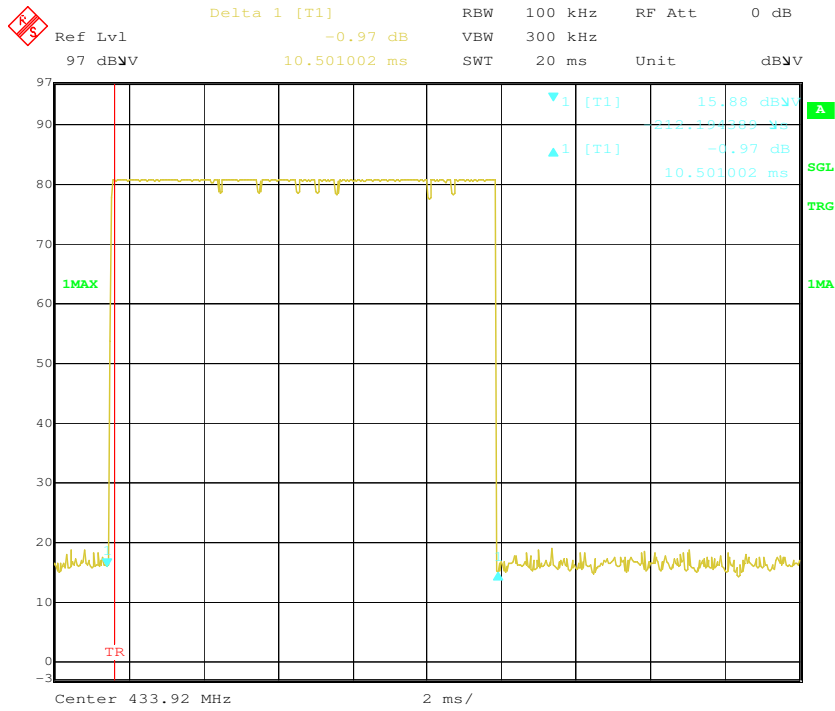
### Duty Cycle 1



### Duty Cycle 2



### Duty Cycle 3



## FCC §15.231(a) (2) - DEACTIVATION TESTING

### Applicable Standard

Per FCC §15.231(a) (2), a transmitter activated automatically shall cease transmission within 5 seconds after activation.

### Test Procedure

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer=operating frequency.
3. Set the spectrum analyzer as RBW=100k VBW=300k Span=0Hz.
4. Repeat above procedures until all frequency measured was complete.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-12-11	2015-12-11

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

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	26 °C
<b>Relative Humidity:</b>	48 %
<b>ATM Pressure:</b>	101.0 kPa

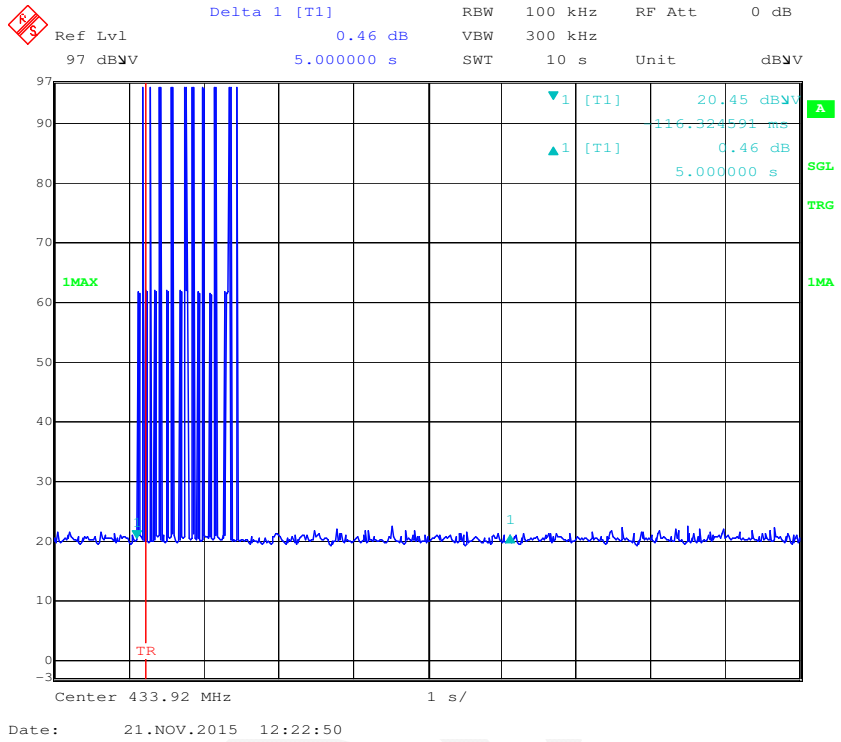
*The testing was performed by Sewen Guo on 2015-11-21.*

*Test mode: Transmitting*

**Test Result:** Compliant, please refer to following plot.

**ASK modulation:**

5 s



## FCC §15.231(c) – 20 dB EMISSION BANDWIDTH TESTING

### Applicable Standard

Per 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

### Test Procedure

With the EUT's antenna attached, the waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-12-11	2015-12-11

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

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	50 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Sewen Guo on 2015-11-02.*

*Test Mode: Transmitting*

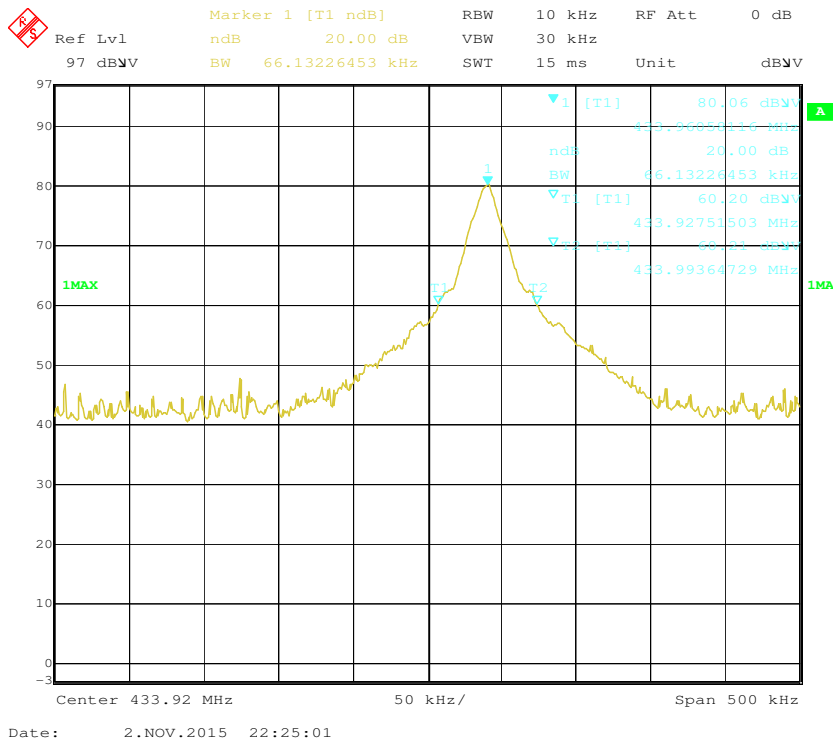
Please refer to following table and plot.

ASK modulation:

Channel Frequency (MHz)	20 dB Emission Bandwidth (kHz)	<Limit (MHz)	Result
433.92	66	1.0848	Pass

Note: Limit = 0.25% \* center frequency = 0.25% \* 433.92 MHz = 1.0848 MHz  
 20dB bandwidth = 66 kHz < 1.0848 MHz

**20 dB Emission Bandwidth**



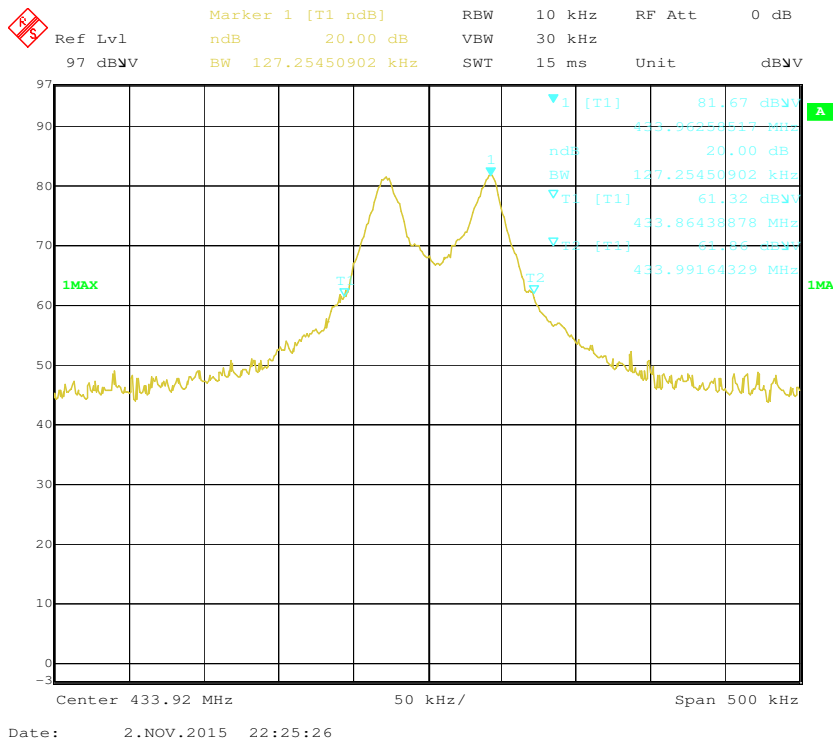


FSK modulation:

Channel Frequency (MHz)	20 dB Emission Bandwidth (kHz)	<Limit (MHz)	Result
433.92	127	1.0848	Pass

Note: Limit = 0.25% \* center frequency = 0.25% \* 433.92 MHz = 1.0848 MHz  
 20dB bandwidth = 127 kHz < 1.0848 MHz

**20 dB Emission Bandwidth**



## **FCC §15.231(e) – TRANSMISSION AND SILENT PERIOD TESTING**

### **Applicable Standard**

Per FCC §15.231(e), devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

### **Test Procedure**

5. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
6. Set center frequency of spectrum analyzer=operating frequency.
7. Set the spectrum analyzer as RBW=100kHz, VBW=300kHz, Span=0Hz.
8. Repeat above procedures until all frequency measured was complete.

### **Test Equipment List and Details**

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-12-11	2015-12-11
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K0 3-101746-zn	2015-06-13	2016-06-13

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

### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	26 °C
<b>Relative Humidity:</b>	48 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Sewen Guo on 2015-11-21.*

Test Mode: Transmitting

Deactivation

Transmission period (s)	Limit (s)	Result
0.283	< 1	Pass

Silent period

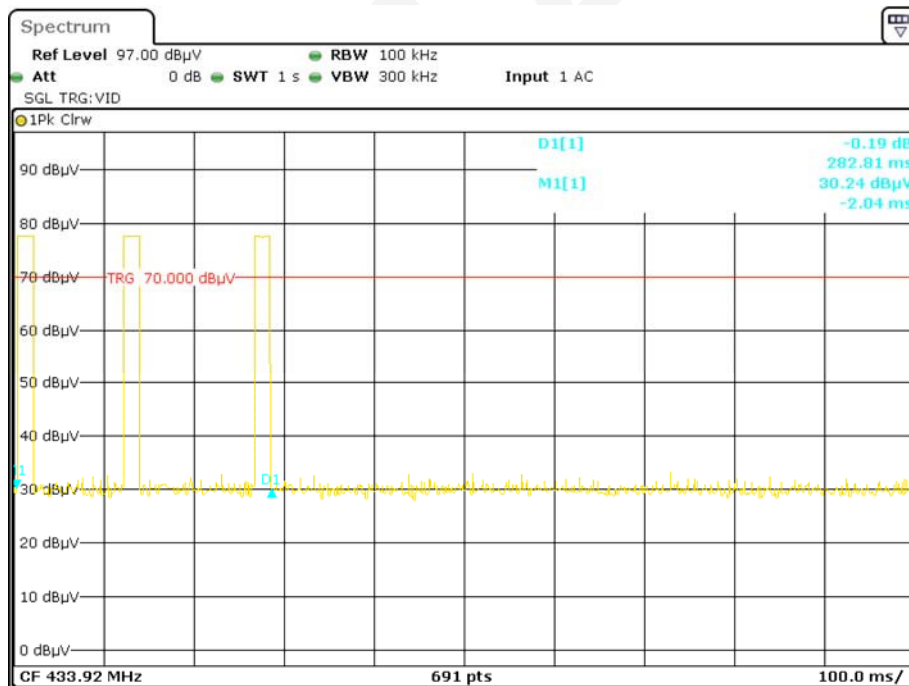
Silent period (s)	Limit (s)	Result
13.68	> 10	Pass

**Note:** The silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

The duration time is 0.283s,  $0.283 \times 30 = 8.49\text{s}$ .

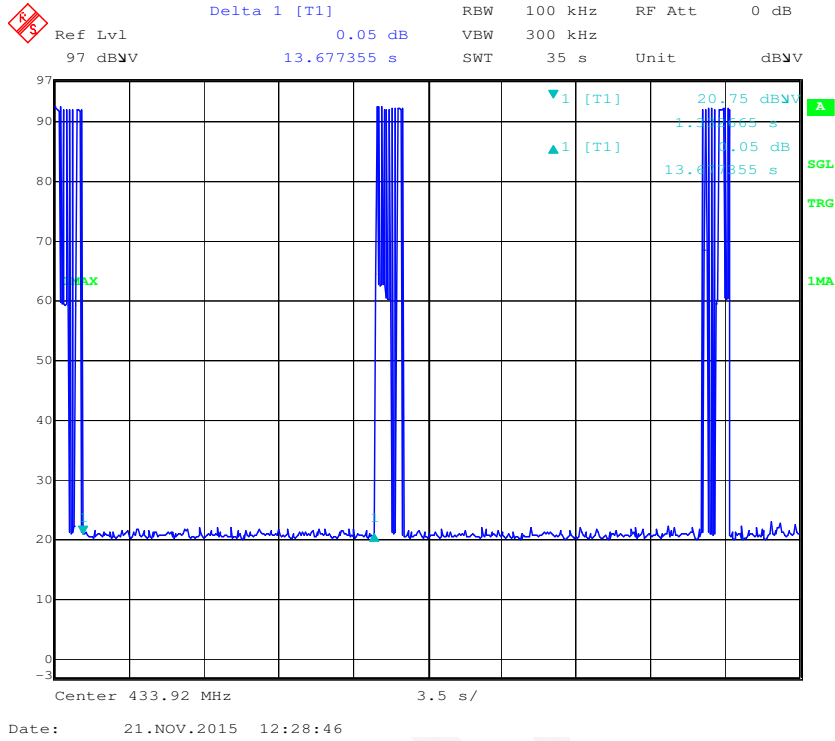
**Test Result:** Compliant, please refer to following plot

Transmission period



Date: 21.NOV.2015 14:42:50

### Silent period



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## **PRODUCT SIMILARITY DECLARATION LETTER**

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2015-12-7

### **Product Similarity Declaration**

To Whom It May Concern,

We, Autel Intelligent Tech. Corp., Ltd., hereby declare that we have a product named as MX-Sensor (Model number: 8930C) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (8930J, 8930C2) on reports and certificate, only model number different and shell shape have little difference, don't affect the electromagnetic compatibility. 8930C adopts ultrasound shell and plug-in valve, 8930J uses the glue shell and screw fixing valve, 8930C2 adopts ultrasound shell and screw fixing valve.

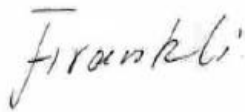
No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Frank Li

President



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