

FCC Test Report

Product Name : Tire Pressure Monitoring System-C Series
Trade Name : Picolink
Model No. : C2
FCC ID. : 2AEJRPC20X

Applicant : Picolink Technology Co., Ltd
Address : Rm.5, 8F, No.100, Sec. 1, Jiafeng 11th
Rd., Zhubei City 302, Taiwan

Date of Receipt : Jun. 03, 2016
Issued Date : Oct. 14, 2016
Report No. : 1660178R-RFUSP14V00
Report Version : V1.0



The declaration results relate only to the samples calculated.
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Test Report Certification

Issued Date : Oct. 14, 2016
Report No. : 1660178R-RFUSP14V00



Product Name : Tire Pressure Monitoring System-C Series
Applicant : Picolink Technology Co., Ltd
Address : Rm.5, 8F, No.100, Sec. 1, Jiafeng 11th Rd., Zhubei City 302,
Taiwan
Manufacturer : Picolink Technology Co., Ltd
Model No. : C2
FCC ID. : 2AEJRPC20X
EUT Voltage : DC 3V (Power by Battery)
Testing Voltage : DC 3V (Power by Battery)
Trade Name : Picolink
Applicable Standard : FCC 15 Subpart C Section 15.231(b): 2015
Test Lab : Hsin Chu Laboratory
Test Result : Complied

The test results relate only to the samples tested.
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(Scott Chang / Assistant Engineer)
Approved By : Roy Wang
(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1660178R-RFUSP14V00	V1.0	Initial issue of report.	Oct. 14, 2016

Laboratory Information

We, **Quietek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C. : TAF, Accreditation Number: 3024
USA : FCC, Registration Number: 834100
Canada : IC, Submission No: 181665 / IC Registration Number: 4075C-4

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site:<http://www.quietek.com/english/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
http://www.quietek.com/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	Tire Pressure Monitoring System-C Series
Trade Name	Picolink
Model No.	C2
Frequency Range	433.92 MHz
Channel Number	1
Type of Modulation	FSK

Antenna Information	
Antenna Type	Soldered on PCB Antenna
Antenna Gain	0 dBi

Working Frequency of Each Channel	
Channel	Frequency
001	433.92 MHz

Note:

1. This device is a Tire Pressure Monitoring System-C Series included a 433.92MHz transceiver function.
2. These tests are conducted on a sample for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.231.
3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 1660178R-RFUSP01V00 under Declaration of Conformity.

1.2. Test Mode

QuieTek verified the construction and function in typical operation. All the test modes are performed in normal operation and are defined as:

Pre-Test Mode	
TX	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

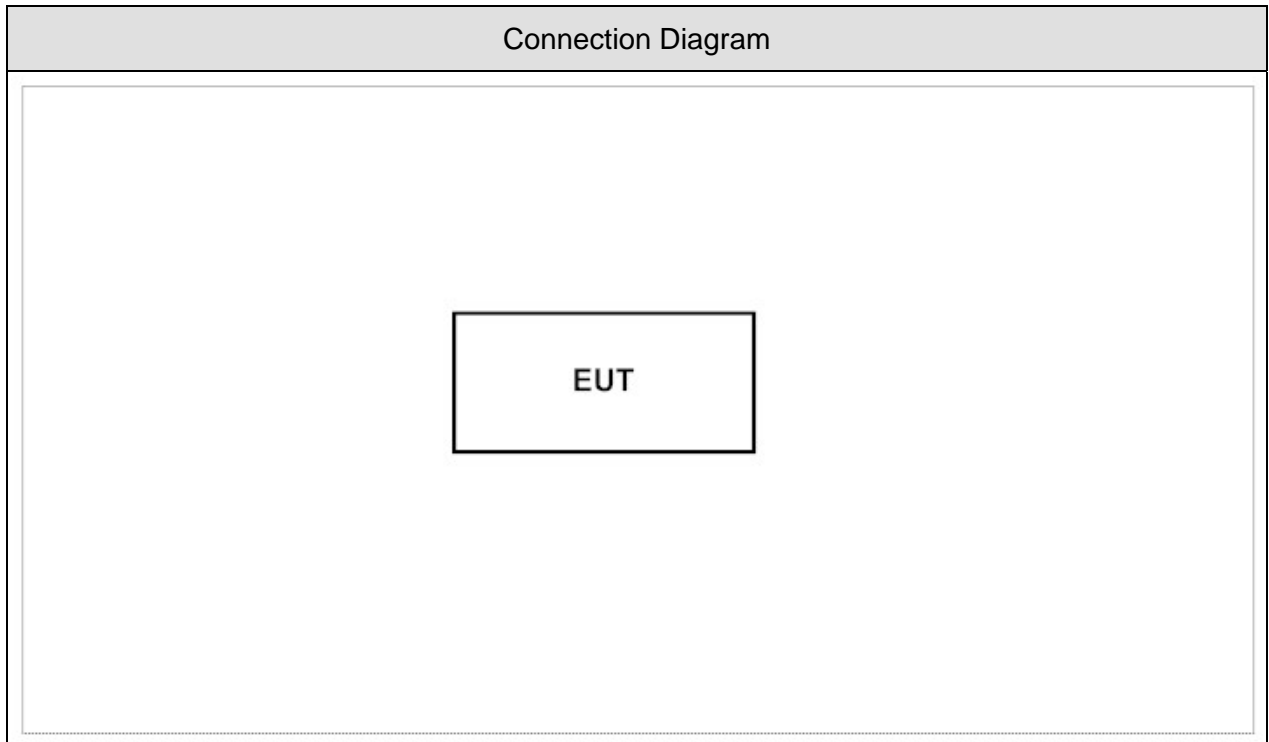
Emission	
Performed Item	Mode 1
Conducted Emission	No
Radiated Emission	Yes
Occupied Bandwidth	Yes
Duty cycle	Yes
Transmitter time	Yes

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
N/A					

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in section 1.4.
2	The EUT will transmit automatically.
3	Verify that the EUT works properly.

2. Radiated Emission

2.1. Test Equipment

The following test equipments are used during the test:

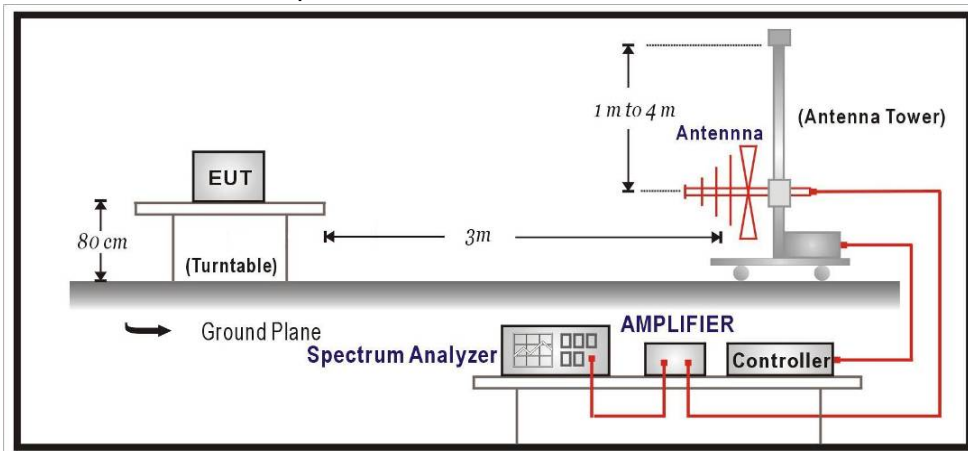
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2895	2017/08/14
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2017/01/14
Pre-Amplifier	EMCI	EMC0031835	4583/10/13	2017/01/26
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2017/01/03
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/12/24
k Type Cable	Huber+Suhner	SF 102	25623/2	2017/01/11
Horn Antenna	Schwarzbeck	BBHA 9170	203	2017/08/28
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05

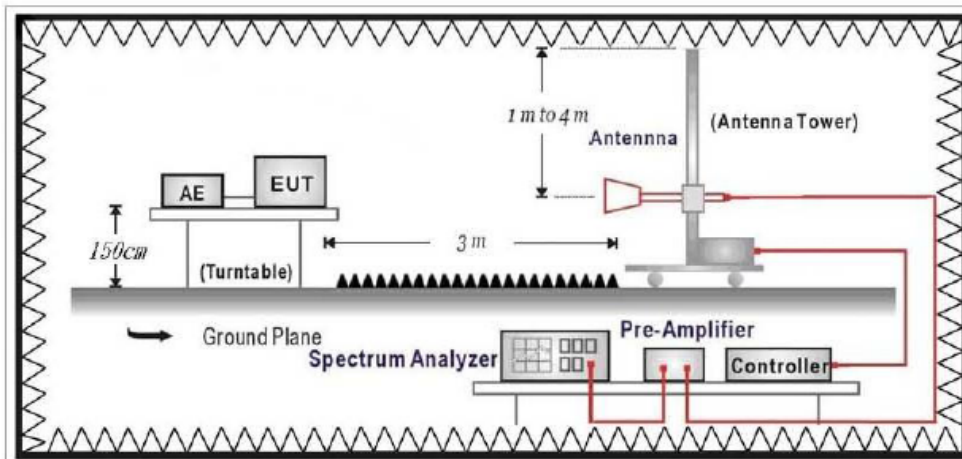
Note: All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



2.3. Limits

➤ Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.231(b) Limits				
Fundamental Frequency MHz	Field Strength of Fundamental		Field Strength of Harmonics	
	uV/m	dBuV/m	uV/m	dBuV/m
40.66 - 40.70	2250	67.04	225	47.04
70 - 130	1250	61.94	125	41.94
130 - 174	1250 - 3750	61.94 - 71.48	125 - 375	41.94 - 51.48
174 - 260	3750	71.48	375	51.48
260 - 470	3750 - 12500	71.48 - 81.94	375 - 1250	51.48 - 61.94
above 470	12500	81.94	1250	61.94

- Remarks: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

➤ Spurious electric field strength limits

FCC Part 15 Subpart C Paragraph 15.209 Limits			
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)
0.009 - 0.490	2400/F(kHz)	See Remark ¹	300
0.490 - 1.705	24000/F(kHz)	See Remark ¹	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

- Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

2.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 and 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB beamwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The frequency range from 30MHz to 10th harmonics is checked.

2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(b): 2015

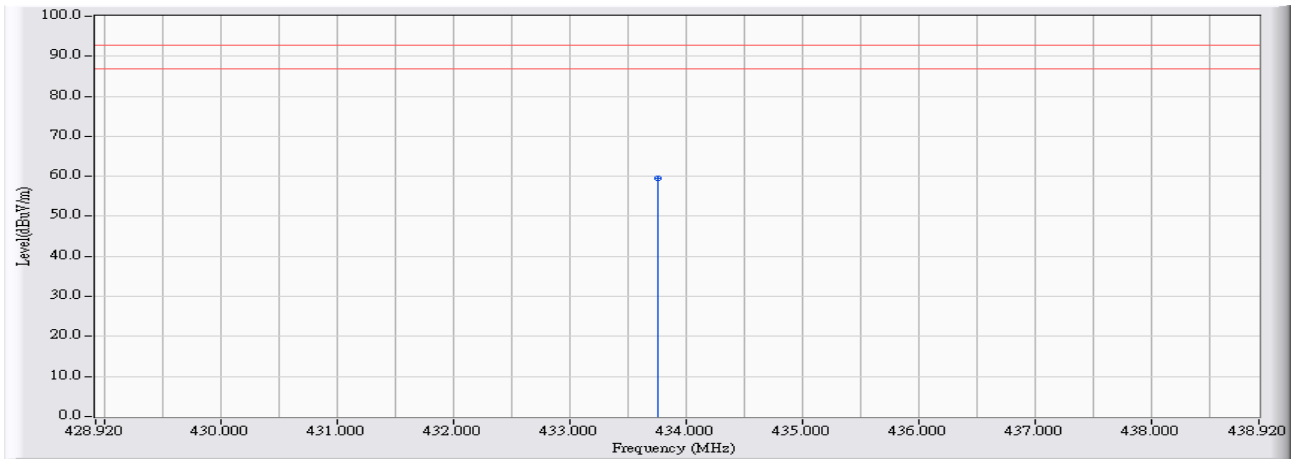
2.6. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

2.7. Test Result

Site : CB1	Time : 2016/10/12 - 18:51
Limit : FCC_SpartC_15.231(e)_F_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit_ X-axis

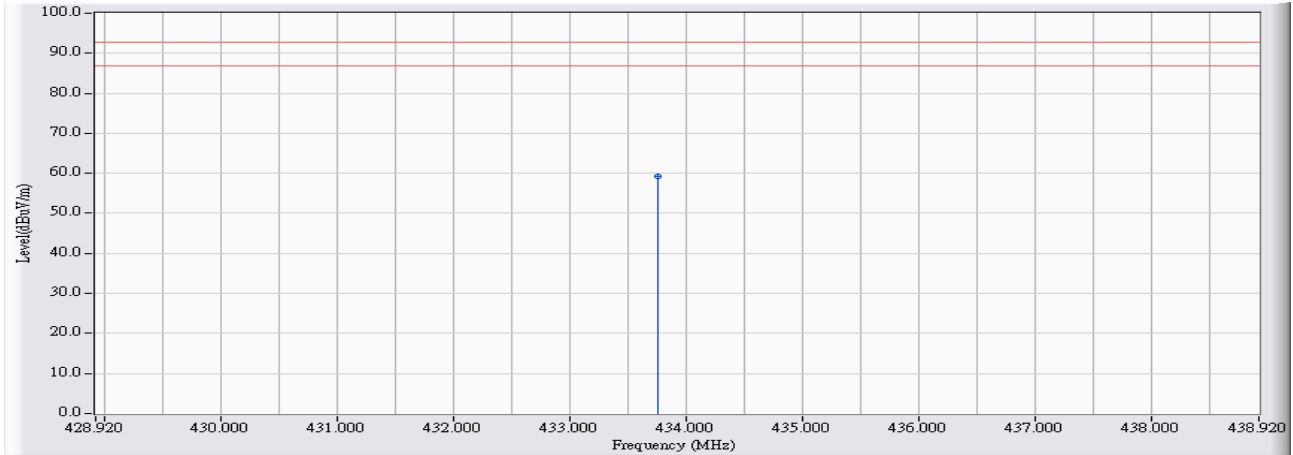


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	433.759	16.767	42.793	59.560	-33.310	92.870	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2016/10/12 - 18:54
Limit : FCC_SpartC_15.231(e)_F_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit_ X-axis

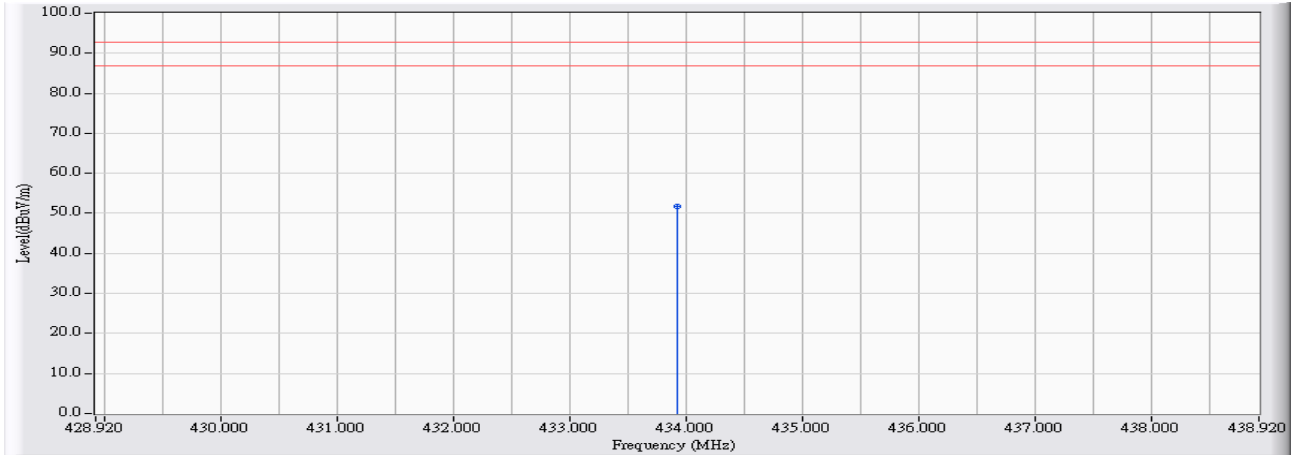


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	433.759	16.767	42.499	59.266	-33.604	92.870	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2016/10/12 - 19:09
Limit : FCC_SpartC_15.231(e)_F_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit_ Y-axis

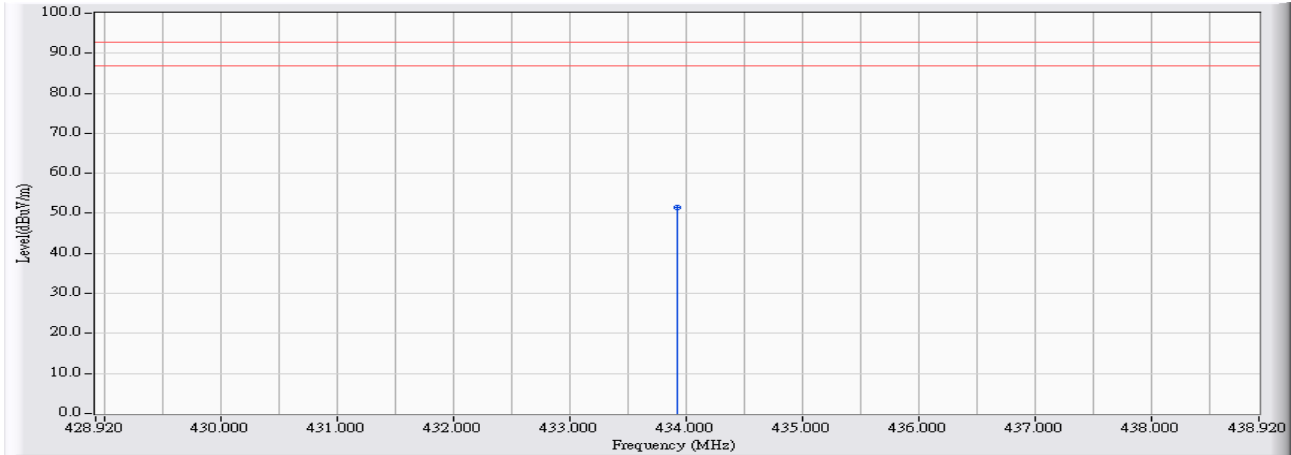


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	433.920	16.772	34.950	51.721	-41.149	92.870	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2016/10/12 - 19:11
Limit : FCC_SpartC_15.231(e)_F_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit_ Y-axis

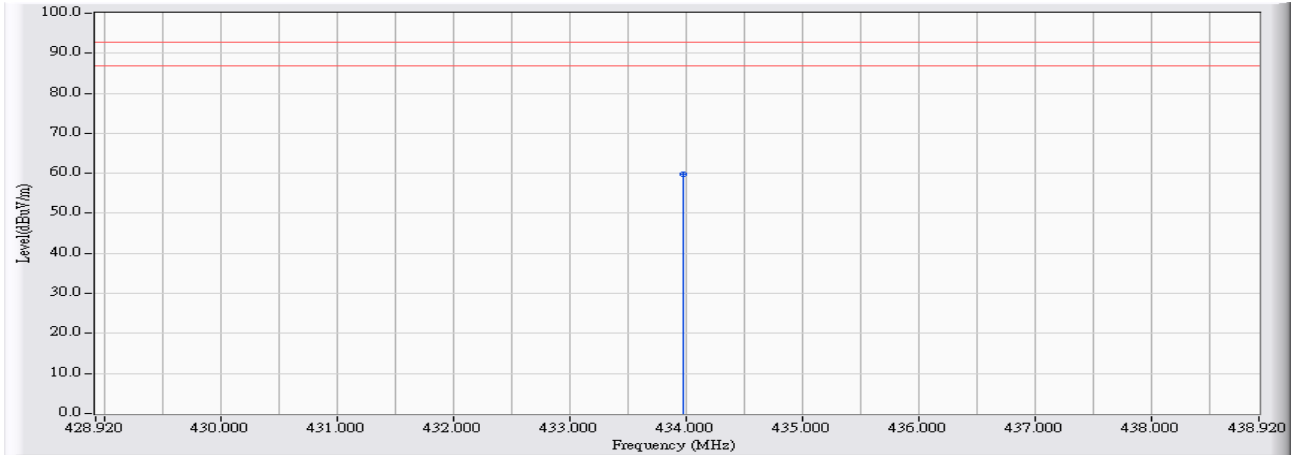


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	433.920	16.772	34.580	51.351	-41.519	92.870	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2016/10/12 - 19:16
Limit : FCC_SpartC_15.231(e)_F_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit_ Z-axis

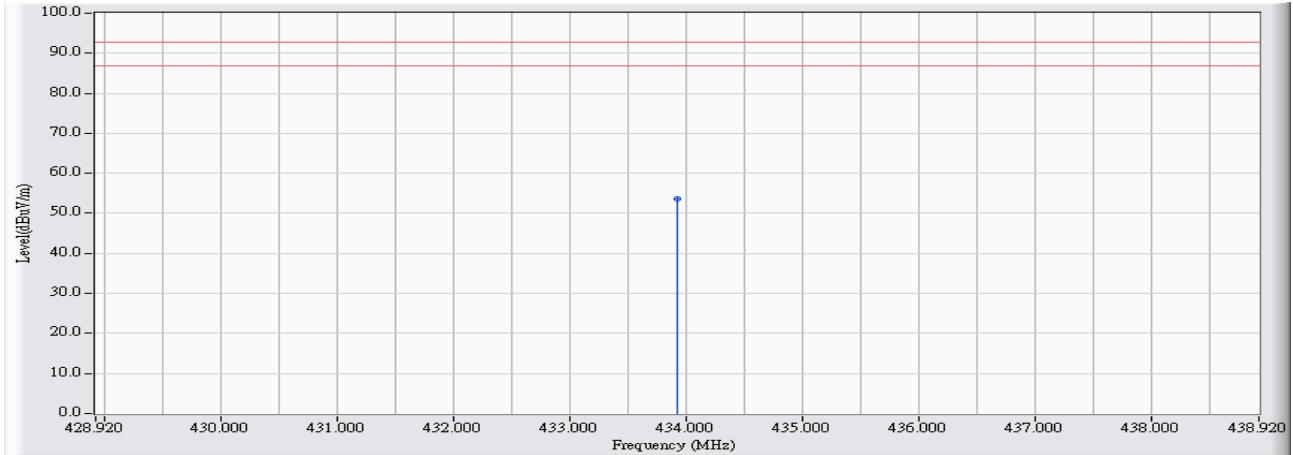


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	433.970	16.773	42.980	59.752	-33.118	92.870	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2016/10/12 - 19:17
Limit : FCC_SpartC_15.231(e)_F_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit_ Z-axis



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	433.920	16.772	36.780	53.551	-39.319	92.870	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product	Tire Pressure Monitoring System-C Series		
Test Item	Fundamental Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/10/12	Test Site	CB1

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Peak Measurement Level (dBuV/m)	Average Measurement Level (dBuV/m)	Average Limit (dBuV/m)
Horizontal					
433.920(X-axis)	16.767	42.793	59.560	50.737	80.830
433.920(Y-axis)	16.772	34.950	51.721	42.898	80.830
433.920(Z-axis)	16.773	42.980	59.752	50.927	80.830
Vertical					
433.920(X-axis)	16.767	42.499	59.266	50.443	80.830
433.920(Y-axis)	16.772	34.580	51.351	42.528	80.830
433.920(Z-axis)	16.772	36.780	53.551	44.728	80.830

Note1:

Peak Measurement Level = Reading Level +Correct factor

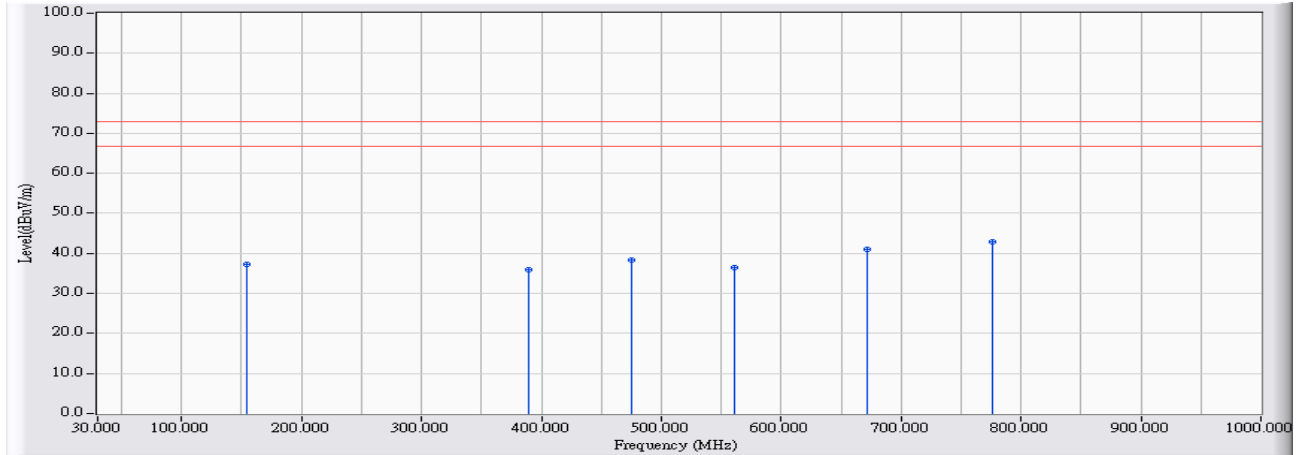
Average Measurement Level = Peak Measurement Level +20Log(Duty Cycle)

(Duty Cycle)=(Ton/(Ton+Toff)=36.21/100=0.362

20Log(Duty Cycle)= -8.823

30MHz-1GHz Spurious :

Site : CB1	Time : 2016/10/12 - 14:42
Limit : FCC_SpartC_15.231(e)_H_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit

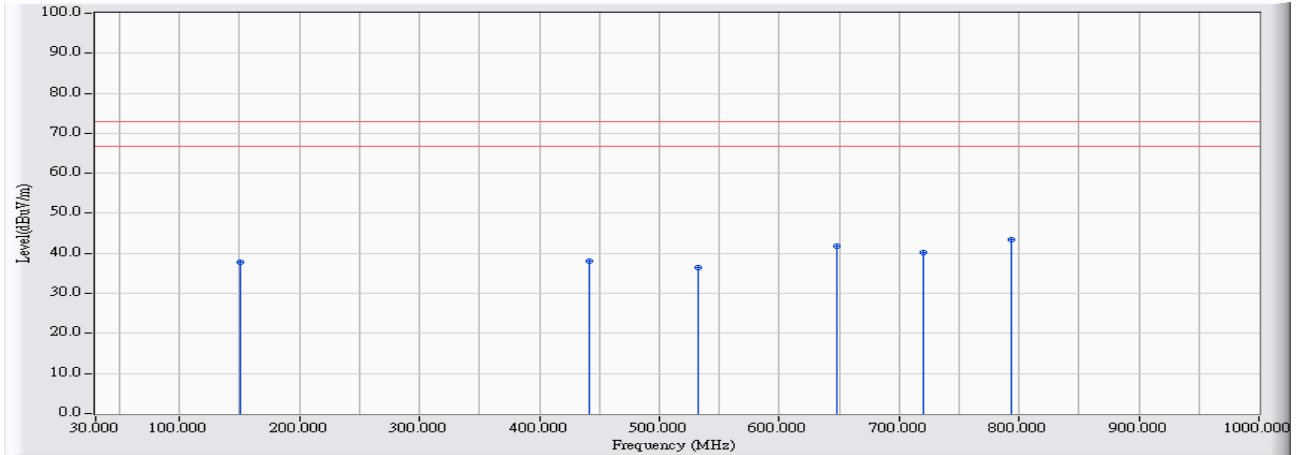


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	154.924	17.877	19.256	37.132	-35.738	72.870	QUASPEAK
2	389.737	15.729	20.146	35.875	-36.995	72.870	QUASPEAK
3	475.670	17.461	20.782	38.243	-34.627	72.870	QUASPEAK
4	560.440	18.932	17.566	36.498	-36.372	72.870	QUASPEAK
5	671.203	20.672	20.445	41.116	-31.754	72.870	QUASPEAK
6	* 775.661	22.017	20.891	42.908	-29.962	72.870	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2016/10/12 - 14:45
Limit : FCC_SpartC_15.231(e)_H_433.92MHz_03M_PK	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit



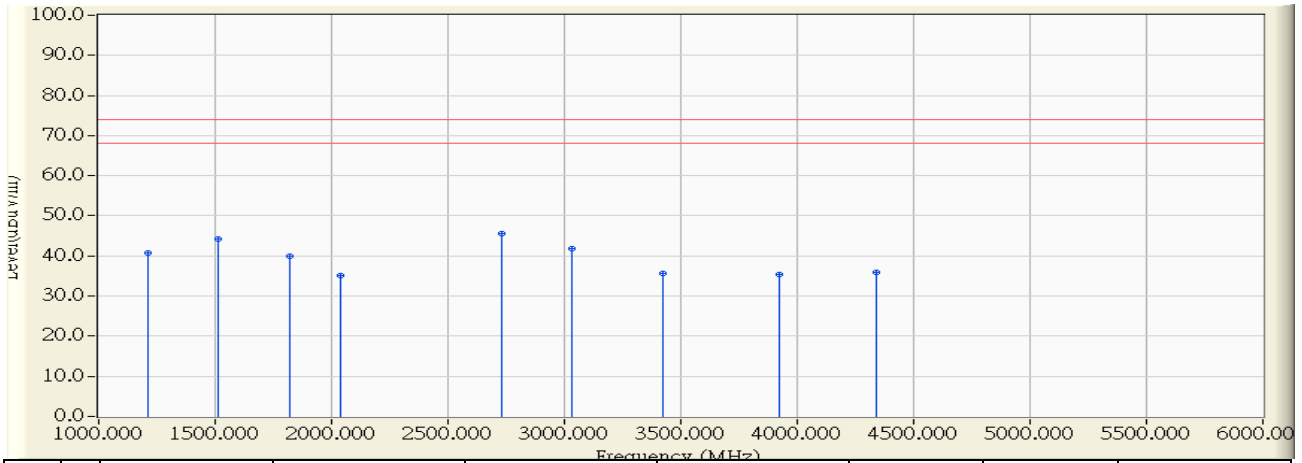
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	150.850	17.796	19.936	37.732	-35.138	72.870	QUASPEAK
2	442.015	16.963	21.026	37.990	-34.880	72.870	QUASPEAK
3	531.828	18.374	18.060	36.434	-36.436	72.870	QUASPEAK
4	648.119	20.358	21.527	41.884	-30.986	72.870	QUASPEAK
5	719.795	21.313	18.855	40.167	-32.703	72.870	QUASPEAK
6	* 793.799	22.246	21.298	43.544	-29.326	72.870	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Above 1GHz Spurious:

Site : CB1	Time : 2016/10/12 - 16:33
Limit : FCC_SpartC_15.231(e)_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit

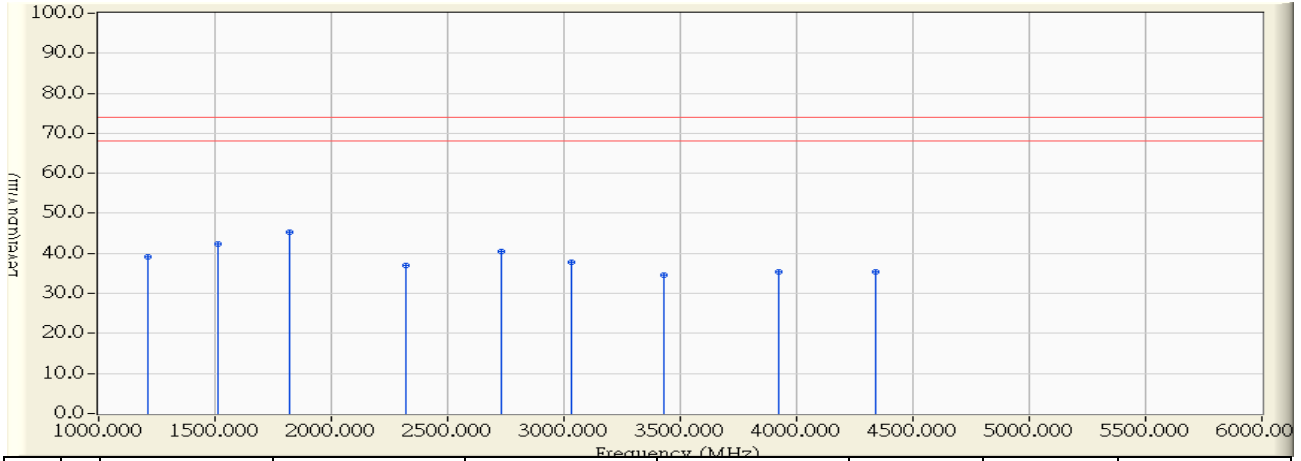


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	1211.750	-10.460	51.307	40.847	-33.123	73.970	PEAK
2	1514.500	-9.673	53.893	44.220	-29.750	73.970	PEAK
3	1819.000	-9.596	49.459	39.863	-34.107	73.970	PEAK
4	2039.500	-9.010	44.237	35.228	-38.742	73.970	PEAK
5	* 2730.750	-5.388	51.001	45.612	-28.358	73.970	PEAK
6	3033.500	-6.052	47.892	41.840	-32.130	73.970	PEAK
7	3422.000	-6.023	41.774	35.751	-38.219	73.970	PEAK
8	3924.250	-4.520	39.842	35.322	-38.648	73.970	PEAK
9	4339.000	-3.718	39.683	35.965	-38.005	73.970	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. “ * ”, means this data is the worst emission level.
4. Measurement Level = Reading Level + Correct Factor.
5. Average Measurement Level = Peak Measurement Level + 20Log (Duty Cycle)
 Duty Cycle(Only Ton)= Ton/ (Ton+off)=8.45/100=0.0845
 20*Log(Duty Cycle) = -21.463
6. The average measurement was not performed when the peak measured data under the limit of peak detection.

Site : CB1	Time : 2016/10/12 - 16:36
Limit : FCC_SpartC_15.231(e)_H_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_1-18G_H2 - VERTICAL	Power : DC 3V (Power by Battery)
EUT : Tire Pressure Monitoring System-C Series	Note : Mode 1: Transmit



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	1211.750	-10.460	49.711	39.251	-34.719	73.970	PEAK
2	1514.500	-9.673	52.101	42.428	-31.542	73.970	PEAK
3	* 1819.000	-9.596	55.002	45.406	-28.564	73.970	PEAK
4	2321.250	-6.292	43.274	36.981	-36.989	73.970	PEAK
5	2729.000	-5.383	45.830	40.446	-33.524	73.970	PEAK
6	3033.500	-6.052	43.921	37.869	-36.101	73.970	PEAK
7	3427.250	-6.023	40.560	34.538	-39.432	73.970	PEAK
8	3922.500	-4.525	39.815	35.290	-38.680	73.970	PEAK
9	4339.000	-3.718	39.149	35.431	-38.539	73.970	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. “ * ”, means this data is the worst emission level.
4. Measurement Level = Reading Level + Correct Factor.
5. Average Measurement Level = Peak Measurement Level + 20Log (Duty Cycle)
 Duty Cycle(Only Ton)= Ton/ (Ton+off)=8.45/100=0.0845
 20*Log(Duty Cycle) = -21.463
6. The average measurement was not performed when the peak measured data under the limit of peak detection.

3. Occupied Bandwidth

3.1. Test Equipment

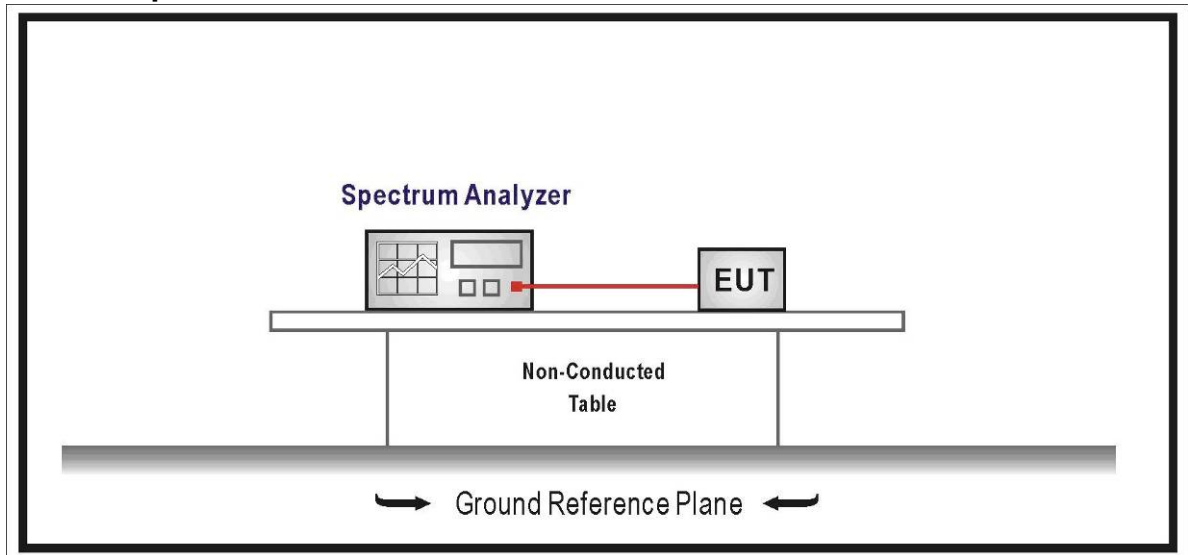
The following test equipments are used during the radiated emission tests:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Signal Analyzer	R&S	FSV7	101650	2016/11/30

Note: All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

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. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(b): 2015

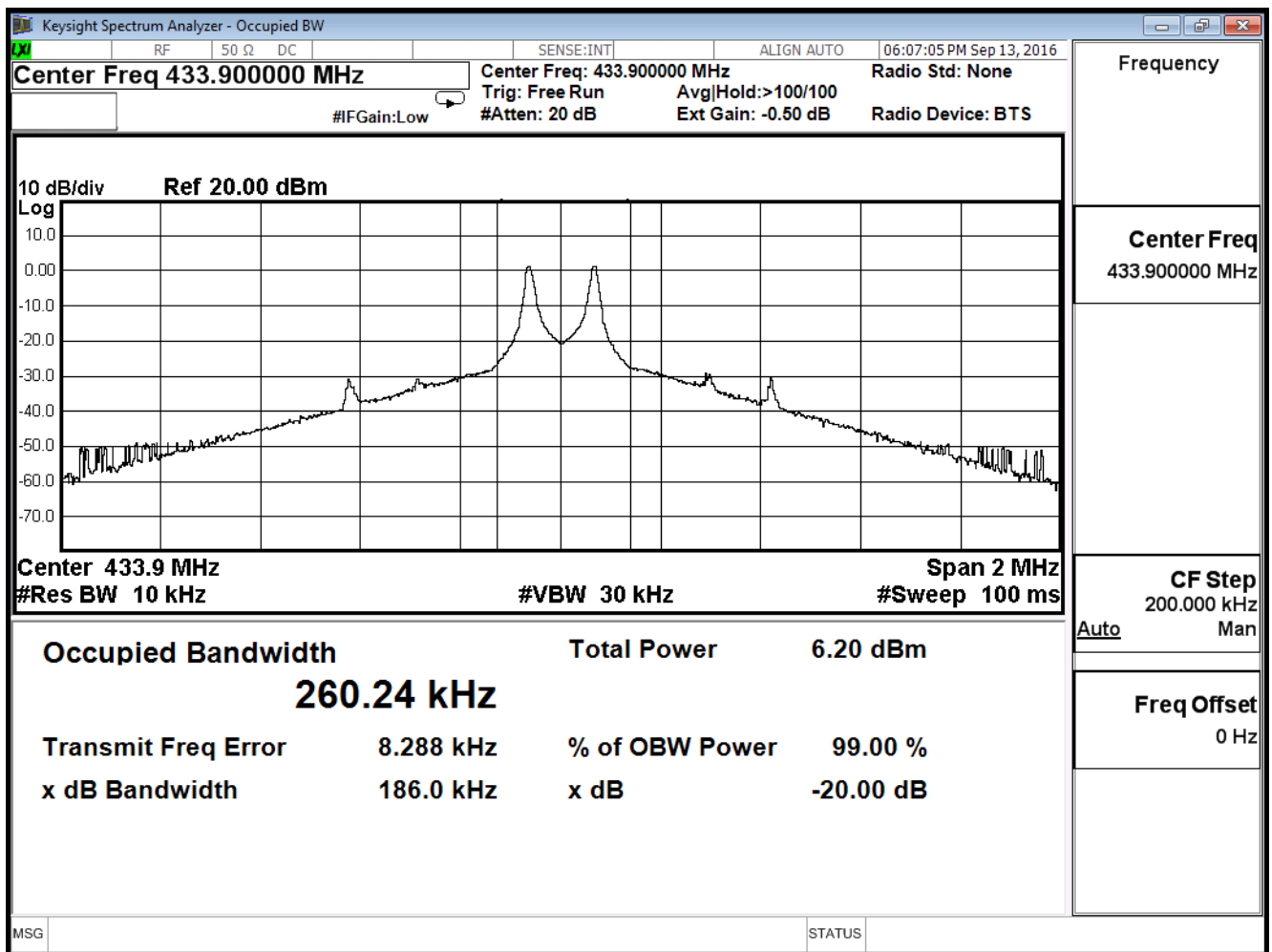
3.5. Uncertainty

± 150Hz

3.6. Test Result

Product	Tire Pressure Monitoring System-C Series		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/10/12	Test Site	SR7

Center Frequency	433.92 MHz
Allowable Bandwidth (70-900 MHz: 0.25%, Above 900MHz: 0.5%)	1.0848MHz
Bandwidth at 20dB down (Max)	186.0KHz
Result	PASS



4. Duty cycle

4.1. Test Equipment

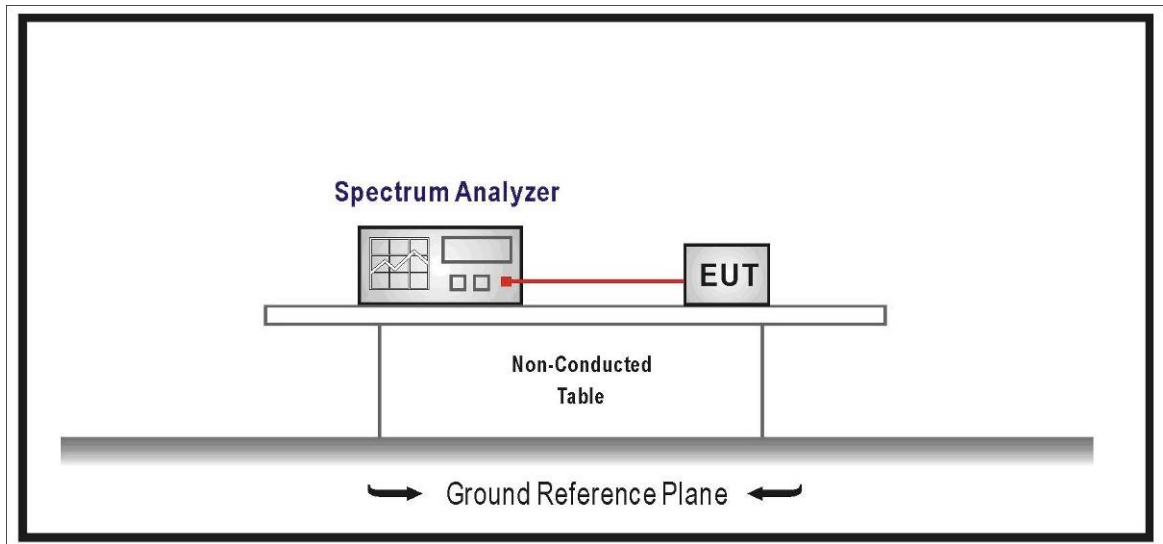
The following test equipments are used during the radiated emission tests:

Duty cycle / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Signal Analyzer	R&S	FSV7	101650	2016/11/30

Note: All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup



4.3. Limits

N/A

4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(b): 2015

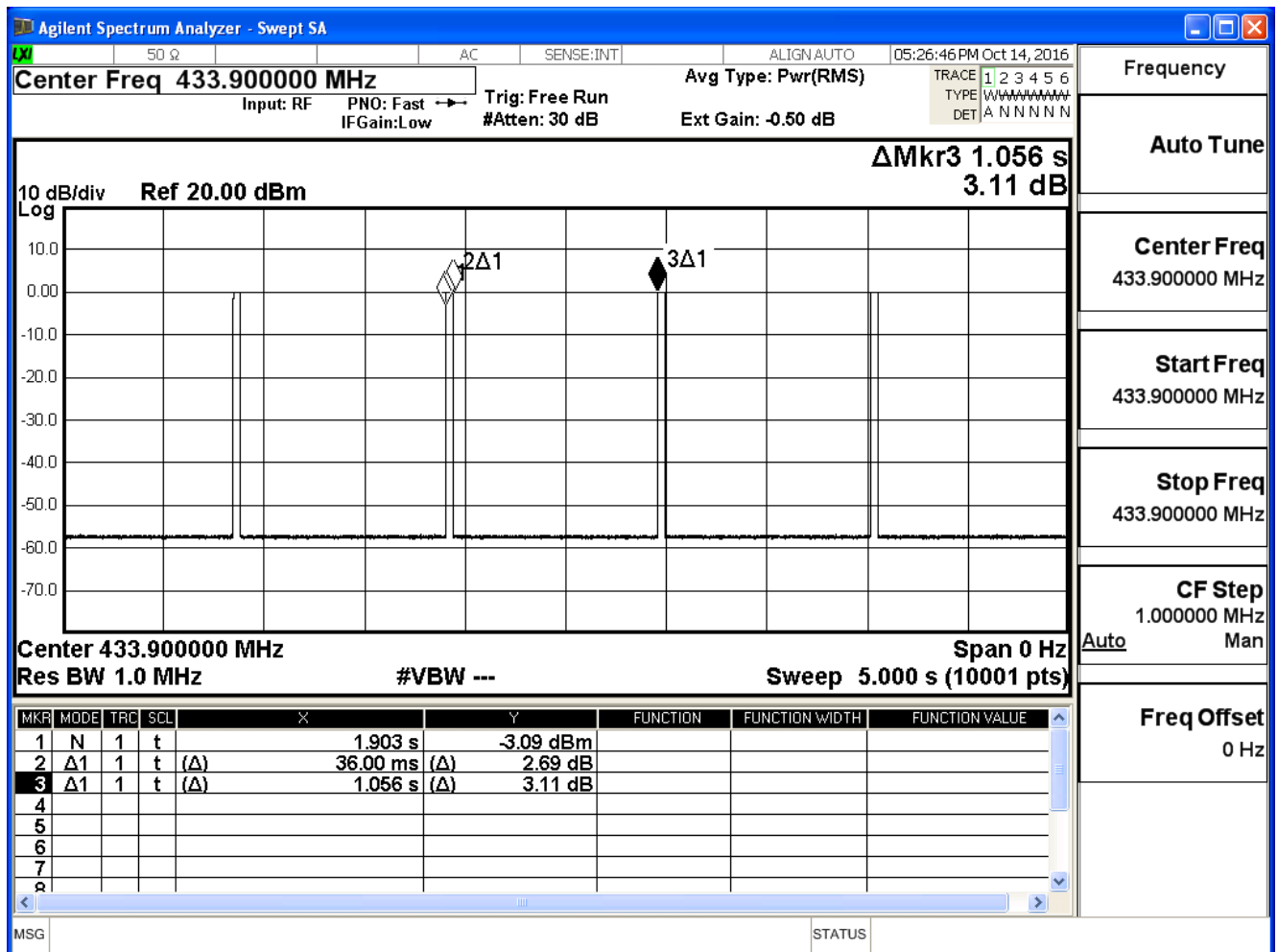
4.5. Uncertainty

± 25msec

4.6. Test Result

Product	Tire Pressure Monitoring System-C Series		
Test Item	Duty Cycle		
Test Mode	Mode 1: Transmit		
Date of Test	2016/10/12	Test Site	SR7

Center Frequency	433.92 MHz
Ton=	36.00ms
Ton+Toff=	105.6ms
Duty Cycle=	36 / 105.6 =0.034



5. Transmitter time

5.1. Test Equipment

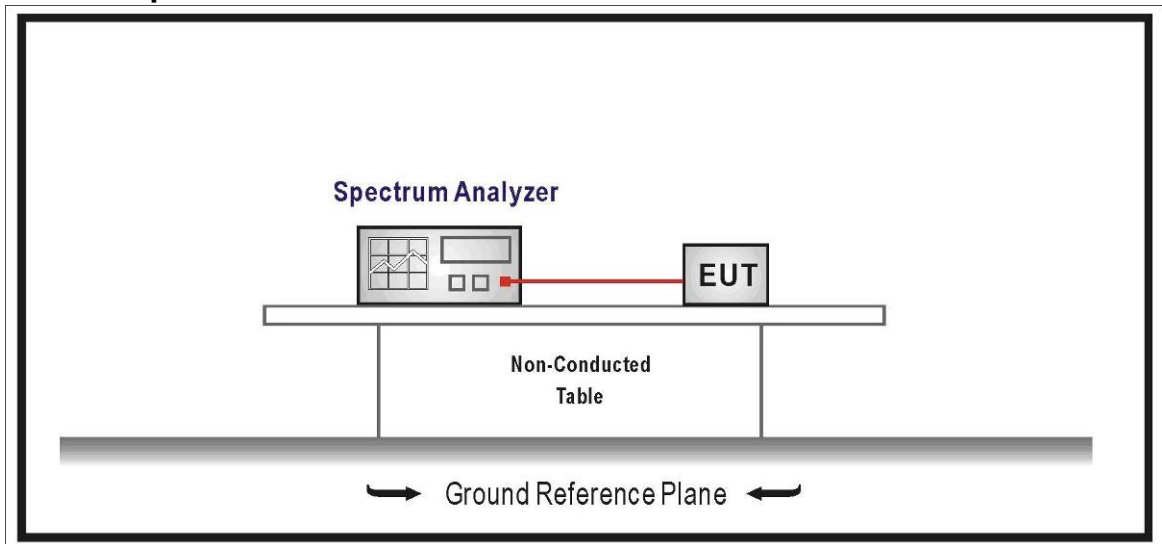
The following test equipments are used during the radiated emission tests:

Transmitter time / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Signal Analyzer	R&S	FSV7	101650	2016/11/30

Note: All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup



5.3. Limits

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. A transmitter activated automatically shall cease transmission within 5 seconds after activation.

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(b): 2015

5.5. Uncertainty

± 25msec

5.6. Test Result

Product	Tire Pressure Monitoring System-C Series		
Test Item	Transmitter time		
Test Mode	Mode 1: Transmit		
Date of Test	2016/10/11	Test Site	SR7

Frequency (MHz)	Transmitter time (ms.)		Silent period (sec.)	
	Measure value	Limit	Measure value	Limit
433.92	36	1000	90.66	10

Transmitter time

