

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358 Fax: +86-512-66308368 Web: www.mrt-cert.com Report No.: 1612RSU00201 Report Version: V01 Issue Date: 04-04-2017

# **MEASUREMENT REPORT** FCC PART 15.231(e) & RSS 210

APPLICANT:	Suzhou Sate Auto Electronic Co., Ltd.
IC:	6707A-TSB40
	11E13D40

Application Type:	Certification
Product:	Tire Pressure Monitoring System Sensor
Model No.:	TSB40
Brand Name:	SATE
FCC Classification:	FCC Part 15 Security/Remote Control Transmitter
	(DSC)
FCC Rule Part(s):	Part 15.231(e)
IC Rule(s):	RSS-210 Issue 9 – Annex A
Test Procedure(s):	ANSI C63.10-2013
Test Date:	December 01, 2016 ~ January 26, 2017

Reviewed By : Robin Wu (Robin Wu ) Approved By : Marlinchen (Marlin Chen) TESTING LABORATORY CERTIFICATE #3628.0

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.



### **Revision History**

Report No.	Version	Description	Issue Date	Note
1612RSU00201	Rev. 01	Initial report	04-04-2017	Valid



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### §2.1033 General Information

Applicant:	Suzhou Sate Auto Electronic Co., Ltd.		
Applicant Address:	No.36 Building, Yangtai Road, Suzou Industrial Park, Suzhou, Jiangsu,		
	P.R.China		
Manufacturer:	Suzhou Sate Auto Electronic Co., Ltd.		
Manufacturer Address:	No.36 Building, Yangtai Road, Suzou Industrial Park, Suzhou, Jiangsu,		
	P.R.China		
Test Site:	MRT Technology (Suzhou) Co., Ltd		
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong		
	Economic Development Zone, Suzhou, China		
MRT Registration No.:	809388		
FCC Rule Part(s):	Part 15.231(e)		
IC Rule(s):	RSS-210 Issue 9 – Annex A		
Model No.	TSB40		
FCC ID:	TTETSB40		
IC	6707A-TSB40		
Test Device Serial No.:	N/A Droduction Pre-Production Engineering		
FCC Classification:	FCC Part 15 Security/Remote Control Transmitter(DSC)		

#### **Test Facility / Accreditations**

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LACert. No.3628.01) in EMC, Telecommunications and Radio testingfor FCC, Industry Canada, EU and TELEC Rules.





### 1. INTRODUCTION

#### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

#### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.





### 2. PRODUCT INFORMATION

#### 2.1. Equipment Description

Product Name	Tire Pressure Monitoring System Sensor
Model No.	TSB40
Frequency Range	433.92 MHz
Type of modulation	ASK, FSK
Antenna Type	Integral Antenna
Device Category	Fixed Device

#### 2.2. Test Standards

The following report is prepared on behalf of the **Suzhou Sate Auto Electronic Co., Ltd** in accordance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commission rules, and RSS-210 Issue 9 & RSS-Gen Issue 4 rules of IC rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commission rules, and RSS-210 Issue 9 & RSS-Gen Issue 4 rules of IC rules.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

#### 2.3. Test Methodology

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013).

Deviation from measurement procedure.....None



### 2.4. EUT Setup and Test Mode

The EUT was operated at continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List					
Test Mode	Description	Remark			
Mode 1	Transmitting	With ASK Modulation			
Mode 2	Transmitting	With FSK Modulation			



### 3. ANTENNA REQUIREMENTS

#### Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the **Tire Pressure Monitoring System Sensor** is permanently attached.
- There are no provisions for connection to an external antenna.

#### Conclusion:

The Tire Pressure Monitoring System Sensor **FCC ID: TTETSB40** unit complies with the requirement of §15.203.



### 4. TEST EQUIPMENT CALIBRATION DATA

#### Radiated Emissions – AC2

Instrument	Manufacturer	Туре No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	1 year	2017/05/08
EMI Test Receiver	R&S	ESR 3.6	102030	1 year	2017/05/08
Preamplifier	Schwarzbeck	BBV 9718	302	1 year	2017/04/16
Preamplifier	Schwarzbeck	BBV9721	9721-008	1 year	2017/04/16
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	1 year	2017/11/21
Bilog Period Antenna	Schwarzbeck	VULB 9168	662	1 year	2017/11/18
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	1457	1 year	2017/11/18
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	1 year	2018/01/03
Temperature/Humidity Meter	Yuhuaze	ETH529	N/A	1 year	2017/12/24
Anechoic Chamber	RIKEN	Chamber-AC2	N/A	1 year	2017/05/10

#### 20dB Bandwidth

Instrument	Manufacturer	Туре No.	Serial No.	Cali. Interval	Cal. Due. Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	1 year	2017/05/08
Bilog Period Antenna	Schwarzbeck	VULB 9168	662	1 year	2017/11/18
Temperature/Humidity Meter	Yuhuaze	ETH529	N/A	1 year	2017/12/24

#### Transmission Time – AC2

Instrument	Manufacturer	Туре No.	Serial No.	Cali. Interval	Cal. Due. Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	1 year	2017/05/08
Bilog Period Antenna	Schwarzbeck	VULB 9168	662	1 year	2017/11/18
Temperature/Humidity Meter	Yuhuaze	ETH529	N/A	1 year	2017/12/24

#### Duty Cycle – AC2

Instrument	Manufacturer	Туре No.	Serial No.	Cali. Interval	Cal. Due. Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	1 year	2017/05/08
Bilog Period Antenna	Schwarzbeck	VULB 9168	662	1 year	2017/11/18
Temperature/Humidity Meter	Yuhuaze	ETH529	N/A	1 year	2017/12/24

Software	Version	Function
e3	V8.3.5	EMI Test Software



### 5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Radiated Emission Measurement – AC2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 9kHz ~ 1GHz: 3.86dB 1GHz ~ 18GHz: 4.33dB



### 6. TEST RESULT

#### 6.1. Summary

Company Name:	Suzhou Sate Auto Electronic Co., Ltd.
FCC ID:	TTETSB40
IC:	<u>6707A-TSB40</u>

FCC Part Section(s)	IC Section(s)	Test Description	Test Condition	Test Result	
15.205	RSS-210, A1.4	Radiated Spurious		Pass	
15.231(e)	K33-210, A1.4	Emissions		Pass	
15.231(c)	RSS-210, A1.3	20dB Bandwidth /		Pass	
15.251(0)	N33-210, A1.3	99% Bandwidth	Radiated	F d 5 5	
15.231(e)	RSS-210, A1.4	Transmission Time		Pass	
15.231(e)	RSS-Gen, 6.10	Duty Cycle		Pass	

#### Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.



#### 6.2. Radiated Emissions

#### 6.2.1. Standard Applicable

According to §15.231(e), 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 emission (microvolts/meter)
40.66-40.70	1,000	100
70-130	500	50
130-174	500 to 1,500 <sup>1</sup>	50 to 150 <sup>1</sup>
174-260	1,500	150
260-470	1,500 to 5,000 <sup>1</sup>	150 to 500 <sup>1</sup>
Above 470	5,000	500

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements start below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

#### 6.2.2. Test Procedure

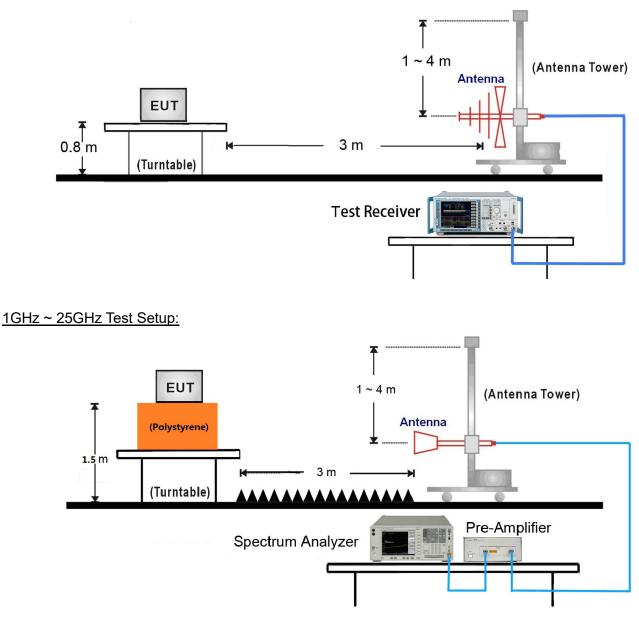
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(e) and FCC Part 15.209 Limit.



#### 6.2.3. Test Setup

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(e) and FCC Part 15.209 Limit.

<u>30MHz ~ 1GHz Test Setup:</u>





#### 6.2.4. Test Results

Site:	AC2			Time	e: 2016/12/01 -	20:11				
Limit	FCC_Part15.2	09_RE(3m)		Eng	ineer: Dandy L	i				
Prob	e: VULB9162_0	.03-8GHz		Pola	Polarity: Horizontal					
EUT:	Tire Pressure N	Ionitoring Sys	tem Senso	r Pow	Power: By Battery					
Note	Transmit with A	ASK Mode		I						
	90	N 7								
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	70					*				
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Level(dBuV/m)	40									
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3				Frequency(	MHz)					
No	Frequency	Reading	Factor	Dutycycle	Measure	Limit	Over Limit	Туре		
	(MHz)	Level	(dB)	Factor	Level	(dBuV/m)	(dB)			
		(dBuV)		(dB)	(dBuV/m)					
1	433.520	55.680	17.196	N/A	72.876	92.866	-19.990	PK		
	433.520	55.680	17.196	19.960	52.916	72.866	-19.950	AV		
2	868.080	4.845	23.872	N/A	28.717	72.866	-44.149	PK		
	868.080	4.845	23.872	19.960	8.757	52.866	-44.109	AV		

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise

within frequency range 9 kHz  $\sim$  30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB).

AV Measure Level = Peak Measure Level – Duty Cycle Factor.



Site:	AC2			Time	Time: 2016/12/01 - 20:17					
Limit	: FCC_Part15.2	.09_RE(3m)		Eng	ineer: Dandy L	i				
Prob	e: VULB9162_0	).03-8GHz		Pola	Polarity: Vertical					
EUT:	Tire Pressure M	Monitoring Sys	tem Senso	r Pow	Power: By Battery					
Note	: Transmit with	ASK Mode		ł						
	90									
	80					1				
	70					*				
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No	20 10 0 -10	Reading	100 Factor			Limit	Over Limit			
	20 10 0 -10 30	Reading		Frequency(	MHz)			1000		
	20 10 -10 30 Frequency	•	Factor	Frequency( Dutycycle	MHz) Measure	Limit	Over Limit	1000		
	20 10 -10 30 Frequency	Level	Factor	Frequency( Dutycycle Factor	MHz) Measure Level	Limit	Over Limit	1000		
No	20 10 0 -10 30 Frequency (MHz)	Level (dBuV)	Factor (dB)	Frequency( Dutycycle Factor (dB)	MHz) Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	1000 Type		
No	<sup>20</sup> 10 0 -10 30 Frequency (MHz) 433.520	Level (dBuV) 55.084	Factor (dB) 17.196	Frequency( Dutycycle Factor (dB) N/A	MHz) Measure Level (dBuV/m) 72.280	Limit (dBuV/m) 92.866	Over Limit (dB) -20.586	1000 Type PK		

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz  $\sim$  30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB).

AV Measure Level = Peak Measure Level – Duty Cycle Factor.



Site:	AC2			Tim	Time: 2016/12/01 - 20:06					
Limit	: FCC_Part15.2	209_RE(3m)		Eng	ineer: Dandy L	i				
Prob	e: VULB9162_0	).03-8GHz		Pola	Polarity: Horizontal					
EUT:	Tire Pressure I	Monitoring Sys	tem Senso	r Pow	Power: By Battery					
Note: Transmit with FSK Mode										
	90									
	80					1		<u></u> ;		
	70					*				
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Ê	50							r		
BuV/r	40									
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Level	30						A LA LANDARD AND A PARTY	with and all		
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No	20 10 0 -10	Reading	100 Factor			Limit	Over Limit			
	20 10 0 -10 30	Reading		Frequency	MHz)			1000		
	20 10 -10 30 Frequency	-	Factor	Frequency	MHz) Measure	Limit	Over Limit	1000		
	20 10 -10 30 Frequency	Level	Factor	Frequency Dutycycle Factor	MHz) Measure Level	Limit	Over Limit	1000		
No	20 10 -10 30 Frequency (MHz)	Level (dBuV)	Factor (dB)	Frequency( Dutycycle Factor (dB)	MHz) Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	1000 Type		
No	20 10 0 -10 30 Frequency (MHz) 433.520	Level (dBuV) 56.050	Factor (dB) 17.196	Frequency Dutycycle Factor (dB) N/A	MHz) Measure Level (dBuV/m) 73.246	Limit (dBuV/m) 92.866	Over Limit (dB) -19.620	1000 Type PK		

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz ~ 30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB).

AV Measure Level = Peak Measure Level – Duty Cycle Factor.



Site:	AC2			Tim	e: 2016/12/01 -	20:09				
Limit	FCC_Part15.2	09_RE(3m)		Eng	Engineer: Dandy Li					
Prob	e: VULB9162_0	.03-8GHz		Pola	Polarity: Vertical					
	 Tire Pressure N		tem Senso		Power: By Battery					
	: Transmit with F									
	90		T 01 01		- 11 T	1	1 1			
	80									
	70					1				
	60									
~								4		
Level(dBuV/m)	50									
vel(dB	40							2		
ē	30						الم بلد ( ب			
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	10	- mon	mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- Hugenstrations and the second					
	0									
	-10		100							
3	30		100	Frequency(	MHz)			1000		
No	Frequency	Reading	Factor	Dutycycle	Measure	Limit	Over Limit	Туре		
	(MHz)	Level	(dB)	Factor	Level	(dBuV/m)	(dB)			
		(dBuV)		(dB)	(dBuV/m)					
1	433.520	54.975	17.419	N/A	72.394	92.866	-20.472	PK		
	433.520	54.975	17.419	21.460	50.934	72.866	-21.932	AV		
2	868.080	6.405	23.886	N/A	30.291	72.866	-42.575	PK		
	868.080	6.405	23.886	21.460	8.831	52.866	-44.035	AV		

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz ~ 30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB).

AV Measure Level = Peak Measure Level – Duty Cycle Factor.



Site:	AC2				Time: 2016/12/01 - 23:28				
Limit	:: FCC_Part15.2	209_RE(3m)			Engineer: Dandy Li				
Prob	e: BBHA9120D	_1-18GHz			Polarity: Horizontal Power: By Battery				
EUT:	Tire Pressure	Monitoring Sys	stem Senso	or					
Note	: Transmit with	ASK Mode							
	90								
	80								
	70								
					2	3 4 * *	5 6		
_	60		1				* *		
Level(dBuV/m)	50			1				1	
dBi	40						in momental starting	wanter	
1	20								
Level	30 ~~~~~	m	molen	multim	million	and when a start of the			
Level	30 ~~~~~	-Ann	mlm	with	line	manne and			
Level	20	~~~~	million	m Marin	h				
Level	20	~~~~~	mdh	m Ihm		under and the			
Level	20 10 0	~~~~	mlm	m dhannan an a	h				
Level	20	~~~~~		m dhanna				600	
Level	20 10 0 -10	~~~~~		Frequ	ency(MHz)			6004	
	20 10 0 -10	Reading	Factor	Frequ		Limit	Over Limit	600 Type	
	20 10 0 -10 1000	Reading	Factor (dB)					1	
No	20 10 -10 1000 Frequency	-		Dutycycle	e Measure	Limit	Over Limit	1	
	20 10 -10 1000 Frequency	Level		Dutycycle Factor	e Measure Level	Limit	Over Limit	1	
No	20 10 0 -10 1000 Frequency (MHz)	Level (dBuV)	(dB)	Dutycycle Factor (dB)	e Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Туре	
No	20 10 0 -10 1000 Frequency (MHz) 1739.500	Level (dBuV) 58.786	(dB) -6.074	Dutycycle Factor (dB) N/A	e Measure Level (dBuV/m) 52.713	Limit (dBuV/m) 72.866	Over Limit (dB) -20.153	Type PK	
No 1	20 10 0 -10 1000 Frequency (MHz) 1739.500 1739.500	Level (dBuV) 58.786 58.786	(dB) -6.074 -6.074	Dutycycle Factor (dB) N/A 19.960	e Measure Level (dBuV/m) 52.713 32.753	Limit (dBuV/m) 72.866 52.866	Over Limit (dB) -20.153 -20.113	Type PK AV	

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz  $\sim$  30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB).

-1.555

-1.555

-0.592

-0.592

1.081

1.081

2.857

2.857

N/A

N/A

N/A

N/A

19.960

19.960

19.960

19.960

61.207

41.247

60.304

40.344

59.923

39.963

57.799

37.839

72.866

52.866

72.866

52.866

72.866

52.866

72.866

52.866

-11.659

-11.619

-12.562

-12.522

-12.943

-12.903

-15.067

-15.027

ΡK

AV

ΡK

AV PK

AV

ΡK

AV

3

4

5

6

3473.500

3473.500

3907.000

3907.000

4340.500

4340.500

4774.000

4774.000

62.762

62.762

60.895

60.895

58.842

58.842

54.942

54.942



AV Measure Level = Peak Measure Level – Duty Cycle Factor. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).



Limit: FCC_Part15.209_RE(3m)       Engineer: Dandy Li         Probe: BBHA9120D_1-18GHz       Polarity: Vertical         EUT: Tire Pressure Monitoring System Sensor       Power: By Battery         Note: Transmit with ASK Mode       Power: By Battery		
EUT: Tire Pressure Monitoring System Sensor Power: By Battery Note: Transmit with ASK Mode		
Note: Transmit with ASK Mode		
90		
80		
70	2	
60 1	* *	
ξ 50 ···································		
₩ 50 HO BD 30 Martin 30 Martin	man and the more thank when the	Mourinamine
30 30 30		
20		
10		
0		
-10		
1000 Frequency(MHz)		6000
No Frequency Reading Factor Dutycycle Measure Limit	Over Limit	Туре
(MHz) Level (dB) Factor Level (dBuV/m)	(dB)	Type
(dBuV) (dB) (dBuV/m)	(42)	
	-18.076	PK
1 3473.500 56.345 -1.555 N/A 54.790 72.866	-	
1         3473.500         56.345         -1.555         N/A         54.790         72.866           3473.500         56.345         -1.555         19.960         34.830         52.866	-18.036	AV
	-18.036 -8.294	AV PK
3473.500 56.345 -1.555 19.960 34.830 52.866		
3473.500         56.345         -1.555         19.960         34.830         52.866           2         4340.500         63.491         1.081         N/A         64.572         72.866	-8.294	PK

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz  $\sim$  30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB).

AV Measure Level = Peak Measure Level – Duty Cycle Factor.

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).



	AC2			Т	Time: 2016/12/01 - 23:22				
Limit	: FCC_Part15.2	209_RE(3m)		E	Engineer: Dandy l	Li			
Prob	e: BBHA9120D	_1-18GHz		F	Polarity: Horizontal				
EUT:	Tire Pressure	Monitoring Sys	stem Senso	r F	Power: By Battery				
Note	: Transmit with	FSK Mode		<b>i</b>	L				
	90						1		
	80								
	70					-	4		
	60				1	2 3	* 5		
Ē	50		1		*				
Level(dBuV/m)	40			1			1 antone Mutation	Lunentran	
Level(	30	mm	Inh	mound	munning	munition	Martin -		
	20								
	10								
	0								
	-10								
	1000			<b>F</b>	- 440->			6000	
	1000	Deading	Fastar	1	ncy(MHz)		Overlimit		
No	1000 Frequency	Reading	Factor	Dutycycle	Measure	Limit	Over Limit	6000 Type	
No	1000	Level	Factor (dB)	Dutycycle Factor	Measure Level	Limit (dBuV/m)	Over Limit (dB)		
	1000 Frequency (MHz)	Level (dBuV)	(dB)	Dutycycle Factor (dB)	Measure Level (dBuV/m)	(dBuV/m)	(dB)	Туре	
No 1	1000 Frequency (MHz) 3040.000	Level (dBuV) 59.001	(dB) -2.895	Dutycycle Factor (dB) N/A	Measure Level (dBuV/m) 56.105	(dBuV/m) 72.866	(dB) -16.761	Type PK	
1	1000           Frequency (MHz)           3040.000           3040.000	Level (dBuV) 59.001 59.001	(dB) -2.895 -2.895	Dutycycle Factor (dB) N/A 21.460	Measure Level (dBuV/m) 56.105 34.645	(dBuV/m) 72.866 52.866	(dB) -16.761 -18.221	Type PK AV	
	1000           Frequency (MHz)           3040.000           3040.000           30473.500	Level (dBuV) 59.001 59.001 62.053	(dB) -2.895 -2.895 -1.555	Dutycycle Factor (dB) N/A 21.460 N/A	Measure Level (dBuV/m) 56.105 34.645 60.498	(dBuV/m) 72.866 52.866 72.866	(dB) -16.761 -18.221 -12.368	Type PK AV PK	
1	1000         Frequency (MHz)         3040.000         3040.000         30473.500	Level (dBuV) 59.001 59.001 62.053 62.053	(dB) -2.895 -2.895 -1.555 -1.555	Dutycycle Factor (dB) N/A 21.460 N/A 21.460	Measure Level (dBuV/m) 56.105 34.645 60.498 39.038	(dBuV/m) 72.866 52.866 72.866 52.866	(dB) -16.761 -18.221 -12.368 -13.828	Type PK AV PK AV	
1	1000         Frequency (MHz)         3040.000         3040.000         30473.500         3473.500         3907.000	Level (dBuV) 59.001 59.001 62.053 62.053 59.059	(dB) -2.895 -2.895 -1.555 -1.555 -0.592	Dutycycle Factor (dB) N/A 21.460 N/A 21.460 N/A	Measure Level (dBuV/m) 56.105 34.645 60.498 39.038 58.468	(dBuV/m) 72.866 52.866 72.866 52.866 72.866	(dB) -16.761 -18.221 -12.368 -13.828 -14.398	PK AV PK AV PK	
1 2 3	1000           Frequency (MHz)           3040.000           3040.000           3473.500           3473.500           3907.000	Level (dBuV) 59.001 59.001 62.053 62.053 59.059 59.059	(dB) -2.895 -2.895 -1.555 -1.555 -0.592 -0.592	Dutycycle Factor (dB) N/A 21.460 N/A 21.460 N/A 21.460	Measure Level (dBuV/m) 56.105 34.645 60.498 39.038 58.468 37.008	(dBuV/m) 72.866 52.866 72.866 52.866 72.866 52.866	(dB) -16.761 -18.221 -12.368 -13.828 -14.398 -15.858	Type PK AV PK AV PK AV	
1	1000         Frequency (MHz)         3040.000         3040.000         3473.500         3473.500         3907.000         3907.000         4340.500	Level (dBuV) 59.001 59.001 62.053 62.053 59.059 59.059 59.059 59.877	(dB) -2.895 -2.895 -1.555 -1.555 -0.592 -0.592 1.081	Dutycycle Factor (dB) N/A 21.460 N/A 21.460 N/A 21.460 N/A	Measure Level (dBuV/m) 56.105 34.645 60.498 39.038 58.468 37.008 60.958	(dBuV/m) 72.866 52.866 72.866 52.866 72.866 52.866 52.866 72.866	(dB) -16.761 -18.221 -12.368 -13.828 -14.398 -15.858 -11.908	Type PK AV PK AV PK AV PK	
1 2 3	1000           Frequency (MHz)           3040.000           3040.000           3473.500           3473.500           3907.000	Level (dBuV) 59.001 59.001 62.053 62.053 59.059 59.059	(dB) -2.895 -2.895 -1.555 -1.555 -0.592 -0.592	Dutycycle Factor (dB) N/A 21.460 N/A 21.460 N/A 21.460	Measure Level (dBuV/m) 56.105 34.645 60.498 39.038 58.468 37.008	(dBuV/m) 72.866 52.866 72.866 52.866 72.866 52.866	(dB) -16.761 -18.221 -12.368 -13.828 -14.398 -15.858	Type PK AV PK AV PK AV	

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz  $\sim$  30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB).

AV Measure Level = Peak Measure Level – Duty Cycle Factor.

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).



Site:	AC2				Time: 2016/12/01 - 23:26				
Limit	: FCC_Part15.2	209_RE(3m)			Engi	neer: Dandy l	i		
Prob	e: BBHA9120D	_1-18GHz			Polarity: Vertical				
EUT:	Tire Pressure	Monitoring Sys	stem Senso	r	Power: By Battery				
Note	: Transmit with	FSK Mode							
	90					Ń			
	80								
	70							3	
	60						1 2	* 4	
Ê	50						* *	*	
BuV/h	40							مند ا	
Level(dBuV/m)	30	m	mm	mm	~~~	homeling	mannen	and the second of the second o	have a second
_	20								
	10								
	0								
	-10 1000						al dad		6000
3			1	Frec	quency(N	/Hz)		1	
No	Frequency	Reading	Factor	Dutycyc	le	Measure	Limit	Over Limit	Туре
	(MHz)	Level	(dB)	Factor		Level	(dBuV/m)	(dB)	
		(dBuV)		(dB)		(dBuV/m)			
1	3473.500	53.417	-1.555	N/A		51.862	72.866	-21.004	PK
	3473.500	53.417	-1.555	21.460		30.402	52.866	-22.464	AV
2	3907.000	53.571	-0.592	N/A		52.980	72.866	-19.886	PK
	3907.000	53.571	-0.592	21.460		31.520	52.866	-21.346	AV
3	4340.500	62.306	1.081	N/A		63.387	72.866	-9.479	PK
	4340.500	62.306	1.081	21.460		41.927	52.866	-10.939	AV
4	4774.000	56.701	2.857	N/A		59.558	72.866	-13.308	PK
	4774.000	56.701	2.857	21.460		38.098	52.866	-14.768	AV
5	5207.500	49.795	2.791	N/A		52.586	72.866	-20.280	PK

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz ~ 30 MHz, the permissible value is not show in the report.

31.126

52.866

21.460

Note 2: The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

Note 3: Peak Measure Level  $(dB\mu V/m)$  = Reading Level  $(dB\mu V)$  + Factor (dB).

2.791

AV Measure Level = Peak Measure Level - Duty Cycle Factor.

49.795

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

5207.500

-21.740

AV



#### 6.3. 20dB Bandwidth / 99% Bandwidth

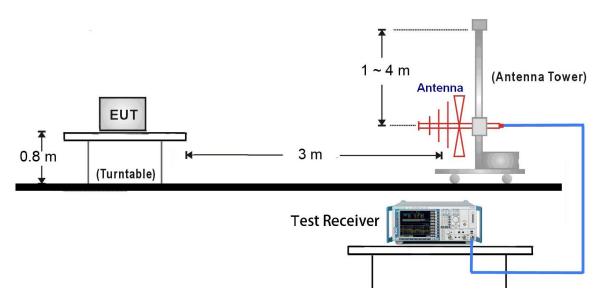
#### 6.3.1. Standard Applicable

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

#### 6.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

#### 6.3.3. Test Setup





#### 6.3.4. Test Result

Test Frequency (MHz)	Modulation Type	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit (KHz)	Result
100.00	ASK	82.24	109.41	≤ 1084.8	Pass
433.92	FSK	167.90	131.70	≤ 1084.8	Pass

Limit = Fundamental Frequency \* 0.25% = 433.92 MHz \* 0.25% = 1084.8 kHz

#### ight Spectrum Analyzer - Occupied B SENSE:INT ALIGN AUTO Center Freq: 433,920000 MHz Trig: Free Run Avg|Hold:>10/10 #Atten: 10 dB 12:46:41 PM Jan 19, 2017 Radio Std: None Frequency Center Freg 433.920000 MHz #IFGain:Low Radio Device: BTS Mkr1 433.918 MHz -16.291 dBm 10 dB/div Ref 10.00 dBm \_og **Center Freq** 433.920000 MHz Center 433.9 MHz #Res BW 10 kHz Span 1 MHz Sweep 9.6 ms CF Step 100.000 kHz #VBW 30 kHz Auto Man -14.8 dBm **Total Power** Occupied Bandwidth 109.41 kHz Freq Offset 0 Hz Transmit Freq Error -636 Hz % of OBW Power 99.00 % x dB Bandwidth 82.24 kHz x dB -20.00 dB MSG

#### 20dB Bandwidth Test Plot for ASK



#### 20dB Bandwidth Test Plot for FSK

📕 Keysight Spectrum Analyzer - Occupied BW					
RF         50 Ω         AC           Center Freq 433.920000 M	Trig	SENSE:INT ter Freq: 433.920000 M :: Free Run Av :en: 0 dB	ALIGN AUTO IHz g Hold:>10/10	01:19:10 PM Jan 19, Radio Std: None Radio Device: BT	Frequency
15 dB/div Ref -10.00 dBn	n	1	Mkr	1 433.959 N -31.702 d	IHz Bm
-25.0					Center Freq 433.920000 MHz
-00.0 -70.0 -85.0	man	مرمد ا	way www.	Manna	
-100					
Center 433.9 MHz				Enon 1	
#Res BW 10 kHz		#VBW 30 kHz		Span 1 F Sweep 9.6	
Occupied Bandwidt	י 31.70 kHz	Total Powe	er -27.1	dBm	Freg Offset
Transmit Freq Error	-1.212 kHz	% of OBW	Power 99	0.00 %	0 Hz
x dB Bandwidth	167.9 kHz	x dB	-20.	00 dB	
MSG			STATUS	3	



#### 6.4. Transmission Time

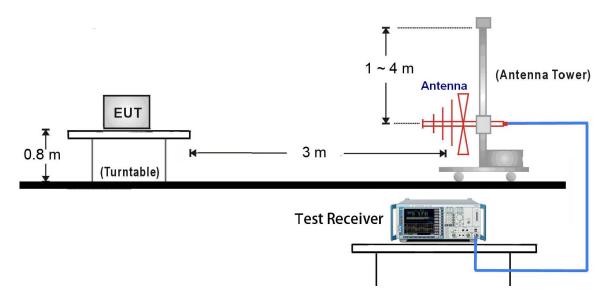
#### 6.4.1. Standard Applicable

According to 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.

#### 6.4.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.92MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

#### 6.4.3. Test Setup



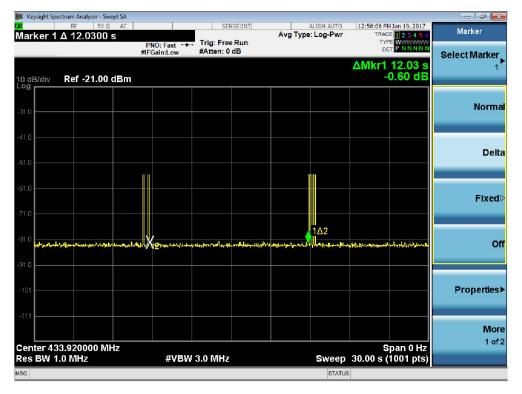


#### 6.4.4. Test Result

Modulation Type	Item	Measured Value	Limit	Result
	Transmission Time(T <sub>on</sub> )	0.010 s	≤1s	Pass
ASK	Silent Time	12.03 s	≥ 10 s	Pass
	Silent Time/Transmission Time	1203	≥ 30 times	Pass
	Transmission Time(T <sub>on</sub> )	0.008 s	≤1s	Pass
FSK	Silent Time	12.08 s	≥ 10 s	Pass
	Silent Time/Transmission Time	1510	≥ 30 times	Pass

Note:

For ASK Modulation, Transmission time  $(T_{on})$  (ms) = 56 \* 0.120 (ms) + 13 \* 0.256(ms) = 10.05 (ms)



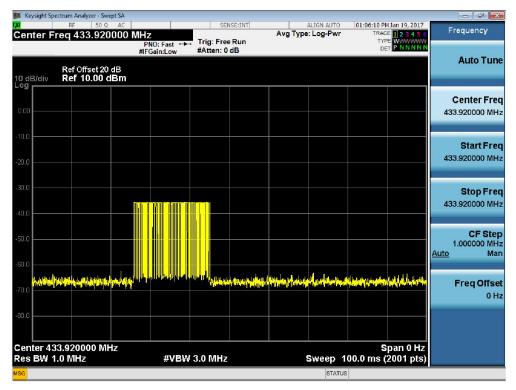
#### Silent Time for ASK



#### Silent Time for FSK

								ctrum Analyzer - S	鱦 Keysight Sp
Marker	01:21:15 PM Jan 19, 2017 TRACE 1 2 3 4 5 6	ALIGN AUTO		NSE:INT	SEN			Δ 12.0750	<mark>X</mark> Morkov (
		. Log-r wi	AAB I NH		Trig: Free	PNO: Fast ++		Δ 12.0750	Marker
Select Marker				dB	#Atten: 0	#FGain:Low			
	Mkr1 12.08 s							Ref Offset 2	
	0.27 dB						lBm	Ref 10.00	10 dB/div Log
Normal									.0.00
									0.00
									10.0
									-10.0
Delta									
									-20.0
Eine alb							II		-30.0
Fixed⊳									
			╈						-40.0
Off			╞╋						-50.0
01									
			142						-60.0
	for the has a second of the second	مروريتها وسلوا فيحونونه	and a falled prosentile de	in a second distant	niniantalipulini	the product of the state of the	X2-141	under the second second	en en falser og som en falser og som en s
Properties ►									-70.0
									-80.0
More									
1 of 2									
1072	Span 0 Hz						Hz	3.920000 N	
	0.00 s (2001 pts)	Sweep			3.0 MHz	#VBW		.0 MHz	Res BW 1
		STATUS							MSG

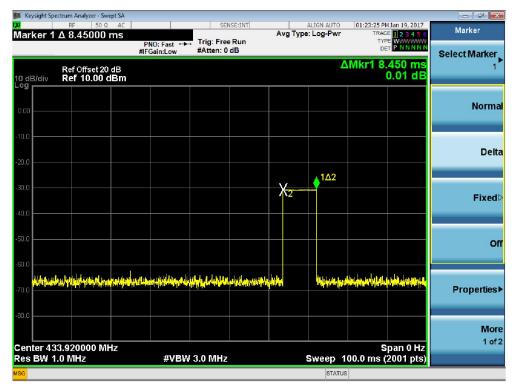
#### Transmission Time for ASK





📕 Keysight Spectrum Analyzer - Swept SA					- J ×
Marker 3 Δ 256.133 μs		SENSE:INT	ALIGN AUTO g Type: Log-Pwr	01:14:57 PM Jan 19, 2017 TRACE 1 2 3 4 5 6	Marker
	PNO: Fast Trig: F #IFGain:Low #Atten	ree Run : 0 dB		DET P N N N N	Select Marker
Ref Offset 20 dB 10 dB/div Ref 10.00 dBm				∆Mkr3 256.1 µs -0.65 dB	3
-10.0					Normal
-20.0 -30.0 -40.0 -50.0	1 <u>62</u>				Delta
-60.0 .70.0 4/00/00/00/00/00/00/00/00/00/00/00/00/00	insignation of a constraint of		UICH VAUUUUUUUUUUUUUUU	AL PARTY AND AN AND AN AND AND AND AND AND AND A	Fixed⊳
Center 433.920000 MHz Res BW 1.0 MHz	#VBW 3.0 MH			Span 0 Hz 0.13 ms (2001 pts)	Ofi
MKR         MODE         TRC         SCL         X           1         Δ2         1         t         (Δ)           2         F         1         t           3         Δ4         1         t         (Δ)           4         F         1         t            5         6         6         6         6	10.32 ms -35.82	i5 dB	FUNCTION WIDTH	FUNCTION VALUE	Properties►
7 8 9 10 11 11	"			-	More 1 of 2
MSG			STATUS	1	

#### Transmission Time for FSK





#### 6.5. Duty Cycle

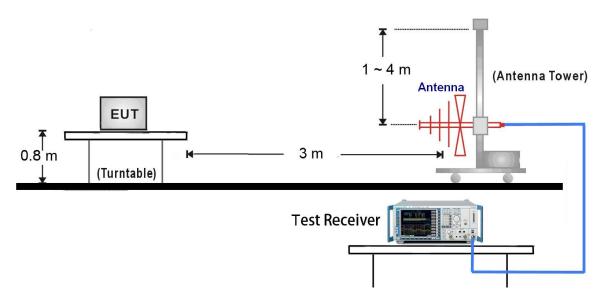
#### 6.5.1. Standard Applicable

According to FCC Part 15.231(e) and 15.35(c), for pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

#### 6.5.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.92MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

#### 6.5.3. Test Setup

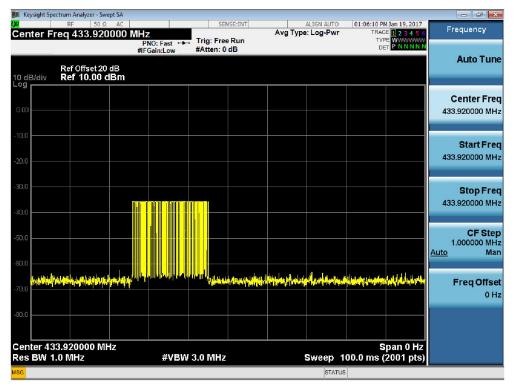


#### 6.5.4. Test Result

Modulation Type	Total Time (T <sub>on</sub> )	The duration of one	Duty Cycle	Duty Cycle Factor
	(ms)	cycle	(%)	(dB)
		(ms)		
ASK	10.05	100	10.05	19.96
FSK	8.45	100	8.45	21.46

Note 1: Duty Cycle Factor = 20\*Log\*(1/Duty Cycle).

Note 2: For ASK Modulation, Total time  $(T_{on})$  (ms) =56 \* 0.120 (ms) + 13 \* 0.256(ms) = 10.05 (ms)



#### Width of Pulse for ASK



Keysight Spectrum Analyzer - Swept						
RF 50 Ω larker 3 Δ 256.133 μ	PNO: Fast ->	Trig: Free Rut #Atten: 0 dB	Avg	ALIGN AUTO Type: Log-Pwr	01:14:57 PM Jan 19, 201 TRACE 1 2 3 4 TYPE WWWWW DET P NNN	Marker
Ref Offset 20 d 0 dB/div Ref 10.00 dB		#Atten: 0 dB		Ĺ	ΔMkr3 256.1 μ -0.65 d	Select Marker
						Norma
40.0	1Δ: X2			14		Delt
60.0 70.0 <mark>htt:///////////////////////////////////</mark>	upontypedf-righting to the state of the stat		) [	KAR MAYAKAN MALAN	,    ,	Fixed
center 433.920000 MH; ces BW 1.0 MHz		V 3.0 MHz	FUNCTION	Sweep 3	Span 0 H 0.13 ms (2001 pt FUNCTION VALUE	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	120.5 μs (Δ) 10.32 ms 256.1 μs (Δ) 18.64 ms	0.11 dB -35.82 dBm -0.65 dB -35.88 dBm	FORCHON	PORCION WIDTH	FORCHOR VALUE	Properties
7 8 9 9 10 11 1						Mor 1 of
s <mark>G</mark>				STATUS		

Width of Pulse for FSK

		1							rum Analyzer - Sw	Keysight Sp
Marker	RACE 1 2 3 4 5 6	ALIGN AUTO 01:23:25 PM Jan 19, 2017 Avg Type: Log-Pwr TRACE 1 2 3 4 5 Type: U 01:00 1:23:25 PM Jan 19, 2017				RF 50 Ω AC SENSE: 8.45000 ms				larker 1
Select Marker		[] []				Trig: Free #Atten: 0	NO: Fast ↔ Gain:Low	P #IF		
1	8.450 ms 0.01 dB	Mkr1 8	Δ					dB IBm	Ref Offset 20 Ref 10.00 (	0 dB/div og
Norma										
Delt										10.0
			<b>▲</b> 1Δ2							20.0
Fixed				X2-						30.0
										40.0
o										50.0
										50.0
Properties	Alupo balluni se palente da	in provident	White works from a	ih.	e in the second seco	and the state of the	an di di di sa sa sa	neweek with	y for the state of	70.0
										30.0
Mor 1 of										
	Span 0 Hz s (2001 pts)		Sweep_1			3.0 MHz	#VBW	lz	.920000 MI ) MHz	enter 43 les BW 1
			STATUS							sg



### 7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Tire Pressure Monitoring** 

System Sensor FCC ID: TTETSB40 & IC: 6707A-TSB40 is in compliance with FCC Part 15.231(e)

of the FCC Rules and RSS 210 Issue 9 – Annex A of IC Rules.

The End