

FCC Test Report

Product Name	Tyre Pressure Monitoring Sensor
Model No.	FP3
FCC ID	MRXFP3

Applicant	Schrader Electronics Ltd.
Address	11 Technology Park, Belfast Road, Antrim, BT41 1QS, Northern Ireland

Date of Receipt	May. 05, 2016
Issued Date	May. 25, 2016
Report No.	1650148R-RFUSP14V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issued Date : May. 25, 2016

Report No. : 1650148R-RFUSP14V00



Product Name	Tyre Pressure Monitoring Sensor
Applicant	Schrader Electronics Ltd.
Address	11 Technology Park, Belfast Road, Antrim, BT41 1QS, Northern Ireland
Manufacturer	Schrader Electronics Ltd.
Model No.	FP3
FCC ID	MRXFP3
EUT Rated Voltage	DC 3V(Power by Battery)
EUT Test Voltage	DC 3V(Power by Battery)
Trade Name	SCHRADER ELECTRONICS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014 ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By :

Leven Huang

(Senior Adm. Specialist / Leven Huang)

Tested By :

Ivan Chuang

(Engineer / Ivan Chuang)

Approved By :

Vincent Lin

(Director / Vincent Lin)

TABLE OF CONTENTS

Description	Page
1. General Information	4
1.1. EUT Description.....	4
1.2. Operation Description	5
1.3. Tested System Details.....	6
1.4. Configuration of tested System	6
1.5. EUT Exercise Software	6
1.6. Test Facility	7
2. Conducted Emission.....	8
2.1. Test Equipment.....	8
2.2. Test Setup	8
2.3. Limits	9
2.4. Test Procedure	9
2.5. Test Specification	9
2.6. Uncertainty	9
2.7. Test Result	10
3. Radiated Emission.....	11
3.1. Test Equipment.....	11
3.2. Test Setup	12
3.3. Limits	13
3.4. Test Procedure	14
3.5. Test Specification	14
3.6. Uncertainty	14
3.7. Test Result	15
4. Transmit time.....	21
4.1. Test Equipment.....	21
4.2. Test Setup	21
4.3. Limits	21
4.4. Test Specification	21
4.5. Uncertainty	21
4.6. Test Result	22
5. Occupied Bandwidth.....	23
5.1. Test Equipment.....	23
5.2. Test Setup	23
5.3. Limits	23
5.4. Test Specification	23
5.5. Uncertainty	23
5.6. Test Result	24

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. General Information

1.1. EUT Description

Product Name	Tyre Pressure Monitoring Sensor
Trade Name	SCHRADER ELECTRONICS
Model No.	FP3
FCC ID	MRXFP3
Frequency Range	315MHz
Number of Channels	1
Type of Modulation	ASK
Antenna Information	Integral Antenna

Frequency of Each Channel:

Channel	Frequency
Channel 1:	315MHz

Note:

1. The EUT is a Tyre Pressure Monitoring Sensor with a built-in 315MHz transmitter.
2. The antenna of EUT is conform to FCC 15.203
3. These tests are conducted on a sample for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.231(e).
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit
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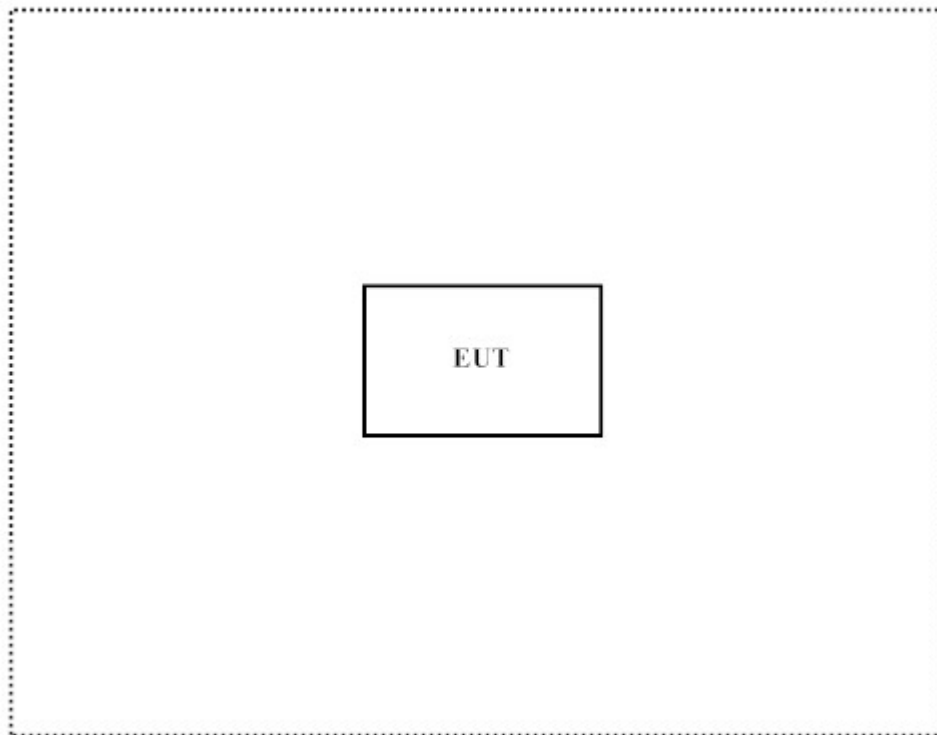
1.3. Tested System Details

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					

Signal Cable Type	Signal cable Description
N/A	

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in section 1.4.
2	Inserts the battery.
3	Start transmits continually.
4	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	30-65
Barometric pressure (mbar)	860-1060	950-1000

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/chinese/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/>

Site Description: File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Registration Number: 92195

Site Name: Quietek Corporation
 Site Address: No.5-22, Ruishukeng,
 Linkou Dist. New Taipei City 24451,
 Taiwan, R.O.C.
 TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
 E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

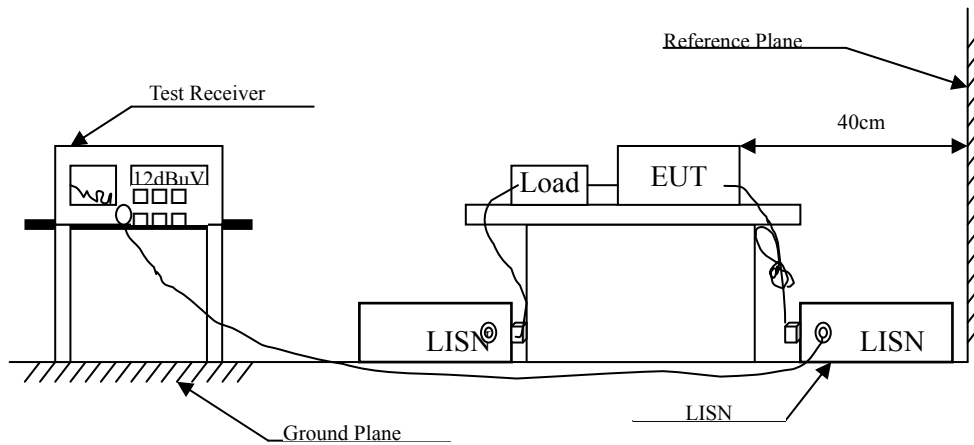
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar., 2016	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e)

2.6. Uncertainty

± 2.26 dB

2.7. Test Result

Owing to the DC operation of EUT, this test item is not performed.

3. Radiated Emission

3.1. Test Equipment

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

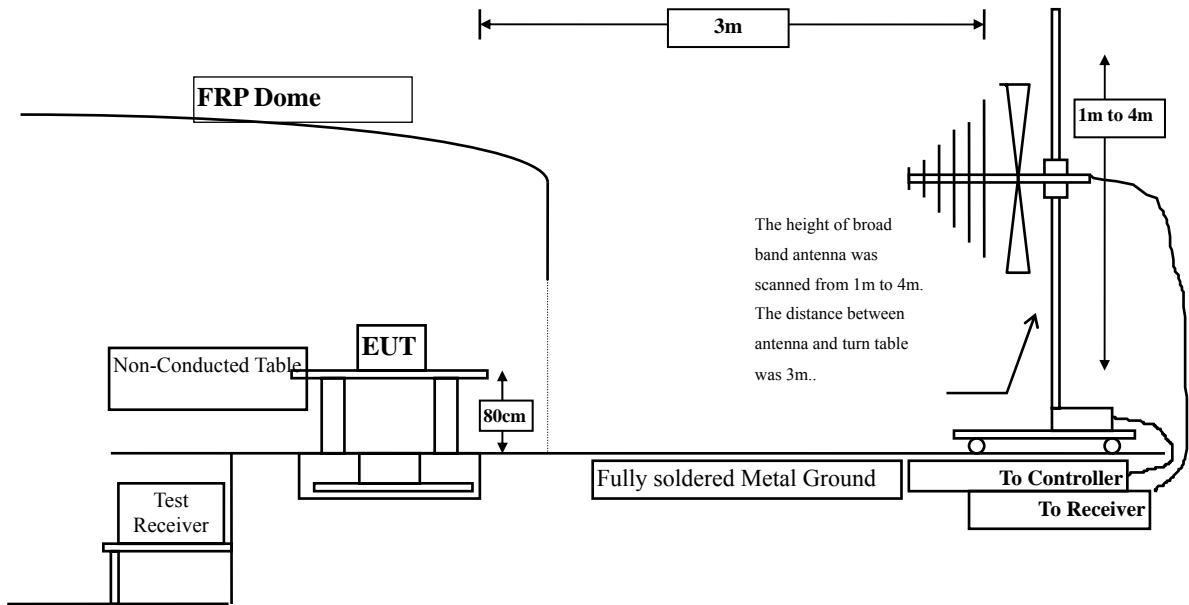
Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct., 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar., 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan., 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug., 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan., 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul., 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul., 2015

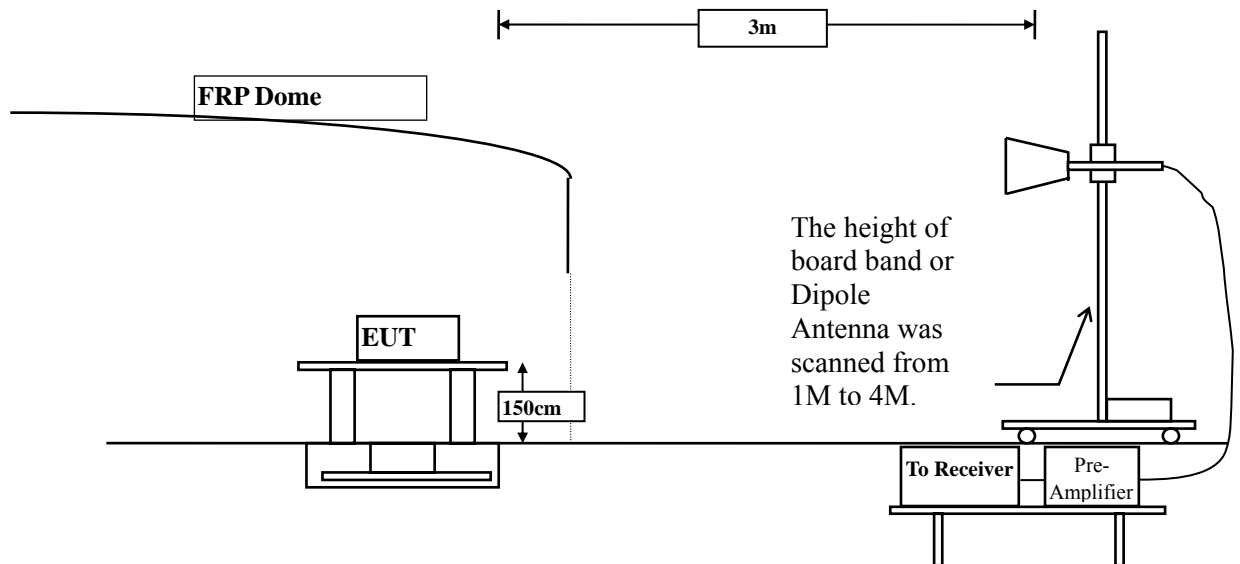
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



3.3. Limits

➤ Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.231(e) Limits		
Fundamental Frequency MHz	Field Strength of Fundamental	Field Strength of Spurious Emission
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

- 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.

3.4. Test Procedure

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

Both horizontal and vertical polarization 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.

On the field strength of fundamental and harmonics, the limits shown are based on measuring equipment employing a average detector function. As an alternative, compliance with the limits may be based on the use of measurement instrumentation with a CISPR quasi-peak detector.

On the field strength of spurious electric, on any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function.

When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e).

3.6. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

3.7. Test Result

Product	Tyre Pressure Monitoring Sensor		
Test Item	Fundamental Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/23	Test Site	No.3 OATS

Fundamental Power (X-Line)

Peak Detector:

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Limit dBµV/m
------------------	-------------------------	--------------------------	--------------------------------	--------------	-----------------

Horizontal

315.000	-17.333	98.900	81.566	-6.094	87.660
---------	---------	--------	--------	--------	--------

Vertical

315.000	-18.535	83.700	65.165	-22.495	87.660
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Average Detector:

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Limit dBµV/m
------------------	-------------------------	--------------------------	--------------------------------	--------------	-----------------

Horizontal

315.000	-17.333	75.500	58.166	-9.494	67.660
---------	---------	--------	--------	--------	--------

Vertical

315.000	-18.535	60.300	41.765	-25.895	67.660
---------	---------	--------	--------	---------	--------

Note:

1. Correct factor = Antenna Factor + Cable Loss – Pre-amplifier Gain
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. Limit = $20\log(2416.68\mu v) = 67.66\text{dB}\mu V$.

Product	Tyre Pressure Monitoring Sensor		
Test Item	Fundamental Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/23	Test Site	No.3 OATS

Fundamental Power (Y-Line)

Peak Detector:

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Limit dBµV/m
------------------	-------------------------	--------------------------	--------------------------------	--------------	-----------------

Horizontal

315.000	-17.333	82.600	65.266	-22.394	87.660
---------	---------	--------	--------	---------	--------

Vertical

315.000	-18.535	95.700	77.165	-10.495	87.660
---------	---------	--------	--------	---------	--------

Average Detector:

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Limit dBµV/m
------------------	-------------------------	--------------------------	--------------------------------	--------------	-----------------

Horizontal

315.000	-17.333	59.300	41.966	-25.694	67.660
---------	---------	--------	--------	---------	--------

Vertical

315.000	-18.535	72.400	53.865	-13.795	67.660
---------	---------	--------	--------	---------	--------

Note:

1. Correct factor = Antenna Factor + Cable Loss – Pre-amplifier Gain
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. Limit = $20\log(2416.68\mu v) = 67.66\text{dB}\mu\text{V}$.

Product	Tyre Pressure Monitoring Sensor		
Test Item	Fundamental Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/23	Test Site	No.3 OATS

Fundamental Power (Z-Line)

Peak Detector:

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Limit dBµV/m
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Horizontal

315.000	-17.333	97.500	80.166	-7.494	87.660
---------	---------	--------	--------	--------	--------

Vertical

315.000	-18.535	90.200	71.665	-15.995	87.660
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Average Detector:

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Limit dBµV/m
------------------	-------------------------	--------------------------	--------------------------------	--------------	-----------------

Horizontal

315.000	-17.333	74.100	56.766	-10.894	67.660
---------	---------	--------	--------	---------	--------

Vertical

315.000	-18.535	66.900	48.365	-19.295	67.660
---------	---------	--------	--------	---------	--------

Note:

1. Correct factor = Antenna Factor + Cable Loss – Pre-amplifier Gain
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. Limit = $20\log(2416.68\mu v) = 67.66\text{dB}\mu V$.

Product	Tyre Pressure Monitoring Sensor		
Test Item	Harmonic Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/11	Test Site	No.3 OATS

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Peak Limit dBµV/m	Average Limit dBµV/m
------------------	-------------------------	--------------------------	--------------------------------	--------------	-------------------------	----------------------------

Harmonic Radiated Emission

Horizontal

Peak

1260.000	-6.000	57.630	51.630	-22.370	74.000	54.000
1575.000	-5.854	51.590	45.735	-28.265	74.000	54.000
1890.000	-3.923	56.910	52.986	-21.014	74.000	54.000
2205.000	-3.393	56.120	52.727	-21.273	74.000	54.000
2520.000	-2.729	56.520	53.791	-20.209	74.000	54.000
2835.000	-1.749	54.850	53.101	-20.899	74.000	54.000
3150.000	-2.815	54.470	51.655	-22.345	74.000	54.000
3465.000	-2.082	53.460	51.378	-22.622	74.000	54.000
3780.000	-1.431	44.170	42.739	-31.261	74.000	54.000
4095.000	0.462	43.250	43.712	-30.288	74.000	54.000
4410.000	0.759	41.540	42.300	-31.700	74.000	54.000
4725.000	1.290	42.360	43.650	-30.350	74.000	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	Tyre Pressure Monitoring Sensor		
Test Item	Harmonic Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/11	Test Site	No.3 OATS

Frequency MHz	Correct Factor dB	Reading Level dBµV	Measurement Level dBµV/m	Margin dB	Peak Limit dBµV/m	Average Limit dBµV/m
------------------	-------------------------	--------------------------	--------------------------------	--------------	-------------------------	----------------------------

Harmonic Radiated Emission

Vertical

Peak

1260.000	-5.571	56.150	50.579	-23.421	74.000	54.000
1575.000	-4.588	49.600	45.012	-28.988	74.000	54.000
1890.000	-3.960	56.280	52.319	-21.681	74.000	54.000
2205.000	-3.927	45.930	42.004	-31.996	74.000	54.000
2520.000	-3.814	57.650	53.836	-20.164	74.000	54.000
2835.000	-2.396	56.350	53.953	-20.047	74.000	54.000
3150.000	-2.632	54.290	51.658	-22.342	74.000	54.000
3465.000	-1.940	49.450	47.510	-26.490	74.000	54.000
3780.000	-1.073	43.100	42.027	-31.973	74.000	54.000
4095.000	0.568	43.310	43.877	-30.123	74.000	54.000
4410.000	1.757	41.120	42.877	-31.123	74.000	54.000
4725.000	2.383	42.130	44.513	-29.487	74.000	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	Tyre Pressure Monitoring Sensor		
Test Item	General Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/12	Test Site	No.3 OATS

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Quasi-Peak					
255.040	14.838	6.820	21.658	-24.342	46.000
346.220	17.938	8.495	26.433	-19.567	46.000
423.820	21.333	5.647	26.980	-19.020	46.000
594.540	26.191	-1.950	24.241	-21.759	46.000
718.700	25.249	2.059	27.308	-18.692	46.000
848.680	26.172	-2.526	23.646	-22.354	46.000
Vertical					
Quasi-Peak					
192.960	19.459	-1.610	17.849	-25.651	43.500
255.040	19.168	3.608	22.776	-23.224	46.000
350.100	17.186	10.946	28.132	-17.868	46.000
421.880	20.472	2.663	23.135	-22.865	46.000
606.180	23.331	1.854	25.185	-20.815	46.000
889.420	27.084	-1.915	25.169	-20.831	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

4. Transmit time

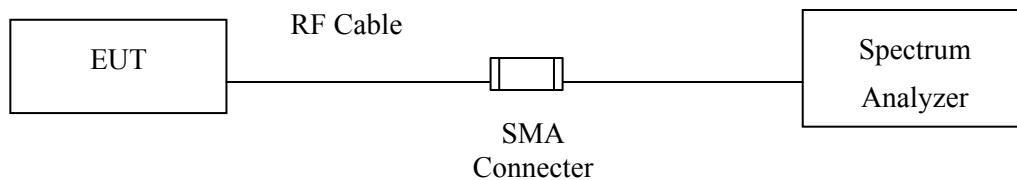
4.1. Test Equipment

The following test equipment are used during the test:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note: 1. All equipments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

4.2. Test Setup



4.3. Limits

In addition, 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.

4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e).

4.5. Uncertainty

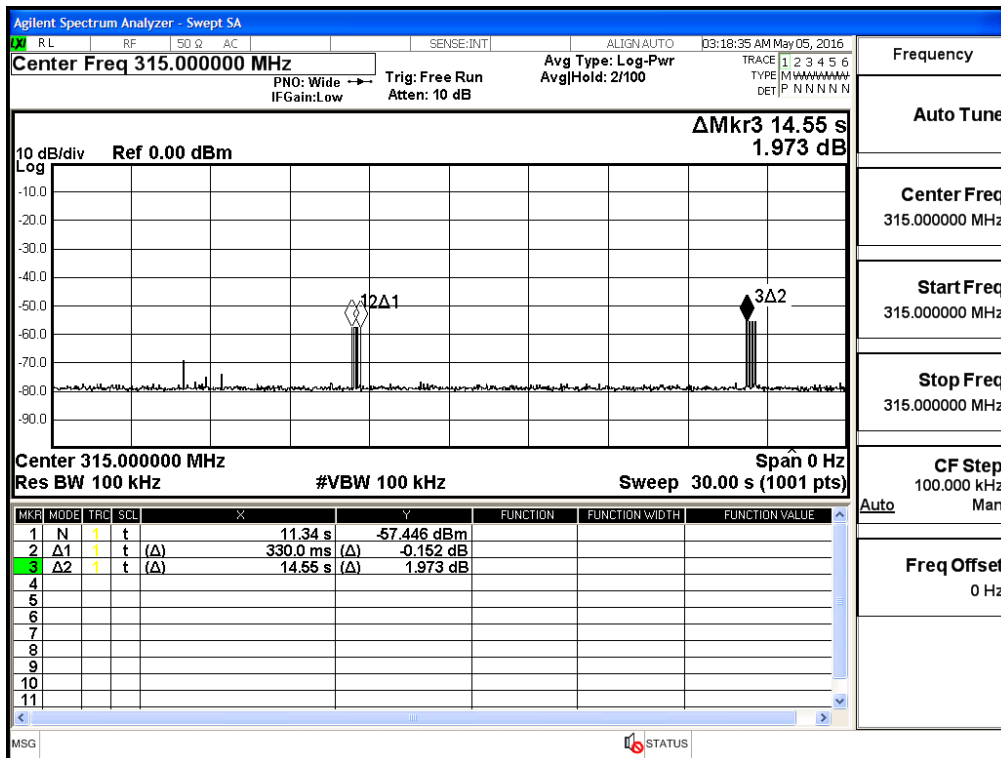
± 25ms

4.6. Test Result

Product	Tyre Pressure Monitoring Sensor		
Test Item	Transmit time		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/05	Test Site	No.3 OATS

Channel No.	Frequency (MHz)	Measurement Value (Sec)	Limit (Sec)	Result
1 (Transmit time)	315.00	0.33	< 1	Pass
1 (Silent period time)	315.00	14.55	> 10	Pass
1 (Silent period time)	315.00	14.55	> 9.9 _{note}	Pass

Note: Silent period time= Transmissions * 30 times =0.33s * 30 =9.9s



5. Occupied Bandwidth

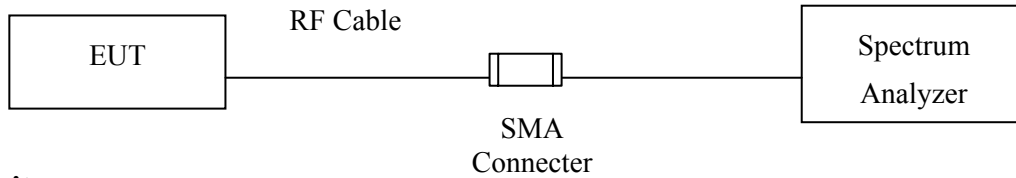
5.1. Test Equipment

The following test equipment are used during the test:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note: 1. All equipments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

5.2. Test Setup



5.3. Limits

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, 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

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e)

5.5. Uncertainty

± 150Hz

5.6. Test Result

Product	Tyre Pressure Monitoring Sensor		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/05/05	Test Site	No.3 OATS

Channel No.	Frequency (MHz)	Measurement Value (MHz)	Limit (MHz)	Result
1	315	0.143	0.7875	Pass

Note: Limit = 315MHz * 0.25% = 0.7875MHz

Figure Channel 1:

