

FCC/IC REPORT

Applicant: Automotive Data Solutions Inc.

Address of Applicant: 8400 Bougainville Montreal Quebec Canada H4P 2G1

Equipment Under Test (EUT)

Product Name: CAR ALARM (TWO WAY)

Model No.: TR3420BF

FCC ID: 2AEPJ-TR3420BF

Canada IC: 11418A-TR3420BF

FCC CFR Title 47 Part 15 Subpart C Section 15.247

Applicable standards: RSS-Gen Issue 4, November 2014

RSS-247 Issue 2, February 2017

Date of sample receipt: 24 May, 2018

Date of Test: 31 May, to 14 Jul., 2018

Date of report issued: 15 Jul., 2018

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	15 Jul., 2018	Original

Tested by:
Carey Chen**Date:**

15 Jul., 2018

Test Engineer

Reviewed by:
Wimery Wang**Date:**

15 Jul., 2018

Project Engineer

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4 Test Summary

Test Items	Section		Result
	FCC	IC	
Antenna Requirement	15.203/15.247 (c)	/	Pass
AC Power Line Conducted Emission	15.207	RSS-GEN Section 8.8	N/A
Conducted Peak Output Power	15.247 (b)(3)	RSS-247 Section 5.4 (d)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	RSS-247 Section 5.2 (a)	Pass
Power Spectral Density	15.247 (e)	RSS-247 Section 5.2 (b)	Pass
Band Edge	15.247(d)	RSS-GEN Section 8.10 RSS-247 Section 5.5	Pass
Conducted and Radiated Spurious Emission	15.205/15.209	RSS-GEN Section 6.13 RSS-247 Section 5.5	Pass

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	Automotive Data Solutions Inc.
Address:	8400 Bougainville Montreal Quebec Canada H4P 2G1
Manufacturer/ Factory:	Portman Electronics (Dongguan) CO., LTD
Address:	NO.10, LUYI 2 ROAD, TANGXIA TOWN, DONGGUAN CITY, GUANGDONG PROVINCE CHINA

5.2 General Description of E.U.T.

Product Name:	CAR ALARM (TWO WAY)
Model No.:	TR3420BF
Operation Frequency:	915 MHz
Channel numbers:	1
Modulation technology:	Lora
Antenna Type:	Internal Antenna
Antenna gain:	-1.25 dBi
Power supply:	DC3V (CR2450)

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.	

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

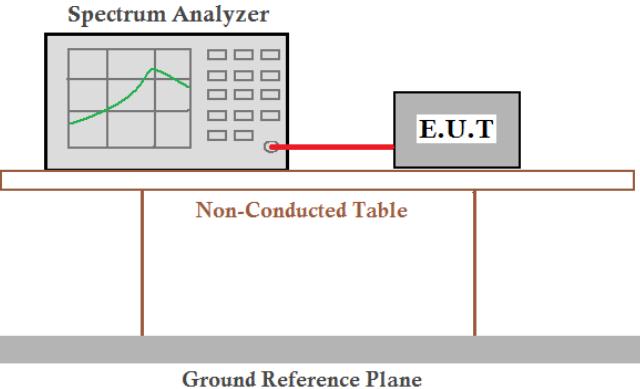
Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(c)
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.
E.U.T Antenna:	The antenna is an Internal Antenna which cannot replace by end-user, the best-case gain of the antenna is -1.25 dBi.

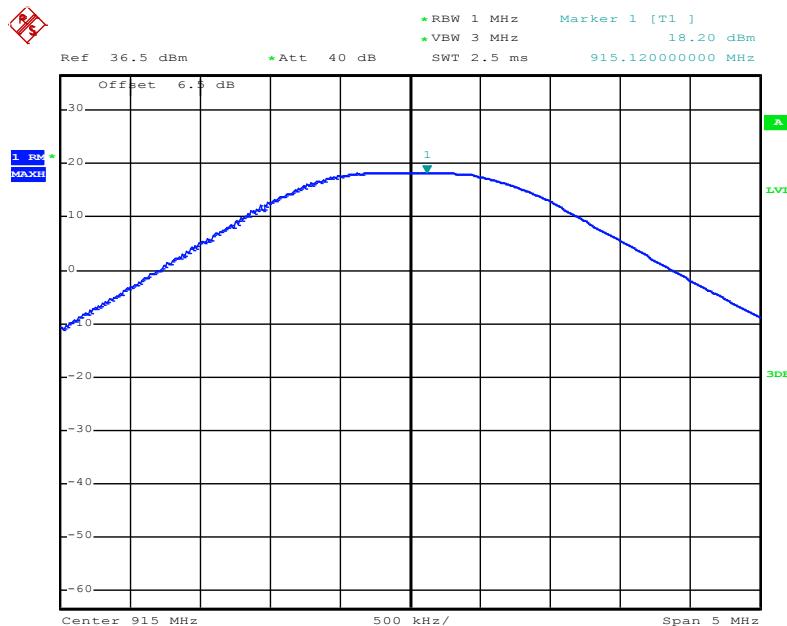
6.2 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3) RSS-247 section 5.4(d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

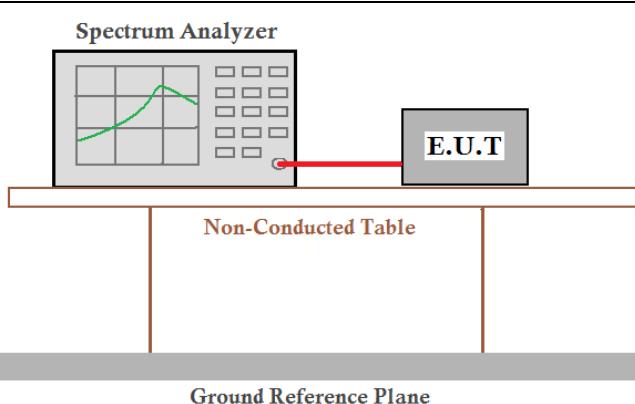
Test Frequency	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
915MHz	18.20	30.00	Pass

Test plot as follows:



Date: 8.JUN.2018 18:57:30

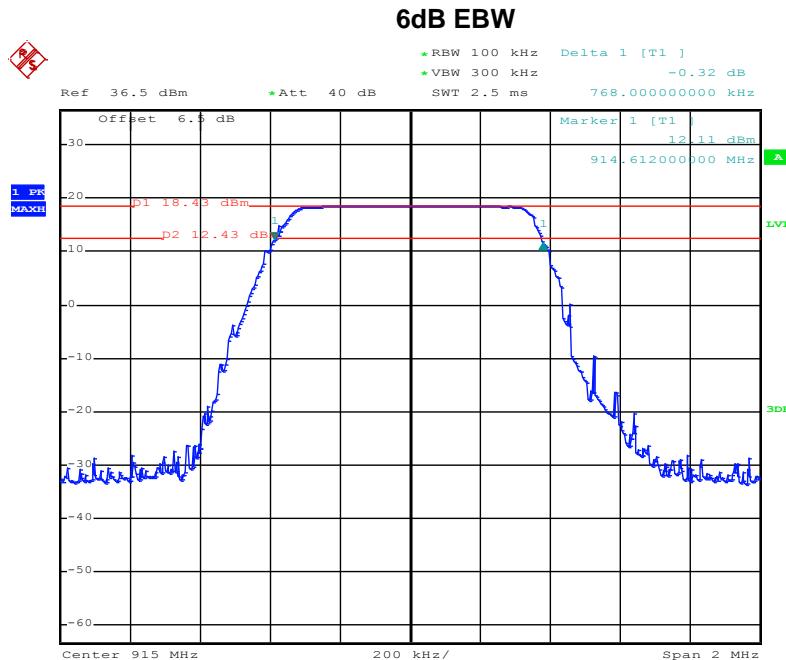
6.3 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2) RSS-247 section 5.2(a)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	>500kHz
Test setup:	<p style="text-align: center;">Spectrum Analyzer</p>  <p style="text-align: center;">Non-Conducted Table</p> <p style="text-align: center;">Ground Reference Plane</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

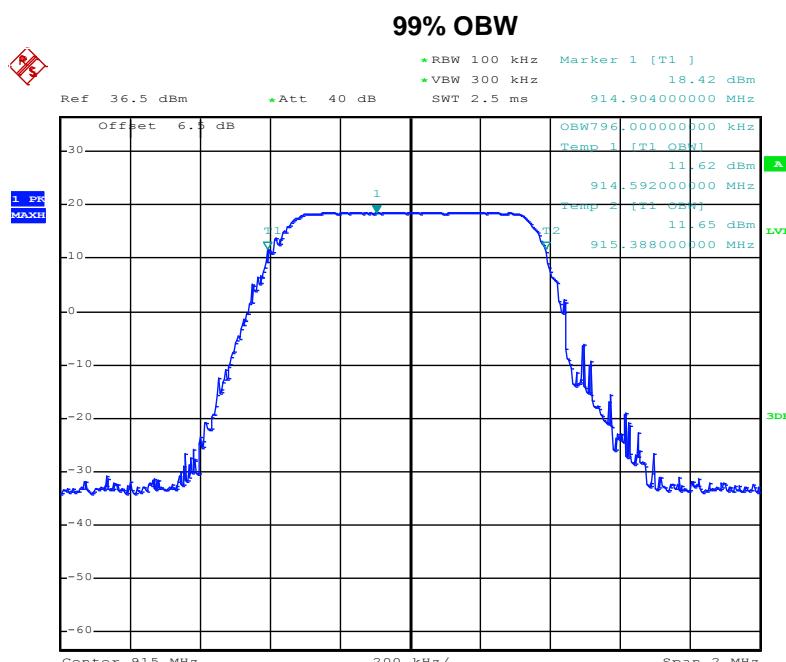
Measurement Data:

Test Frequency	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result
915 MHz	0.768	>500	Pass
Test Frequency	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result
915 MHz	0.796	N/A	N/A

Test plot as follows:

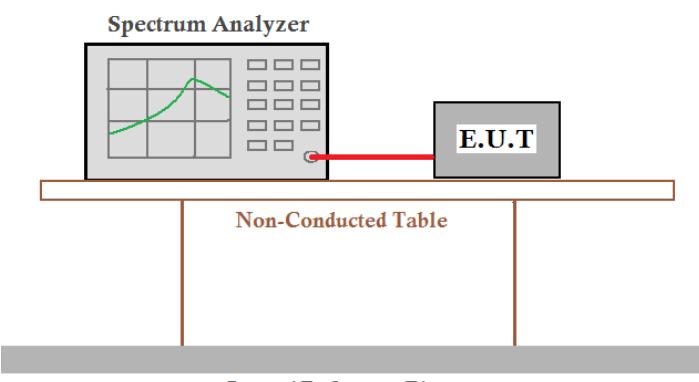


Date: 8.JUN.2018 19:02:40



Date: 8.JUN.2018 19:05:19

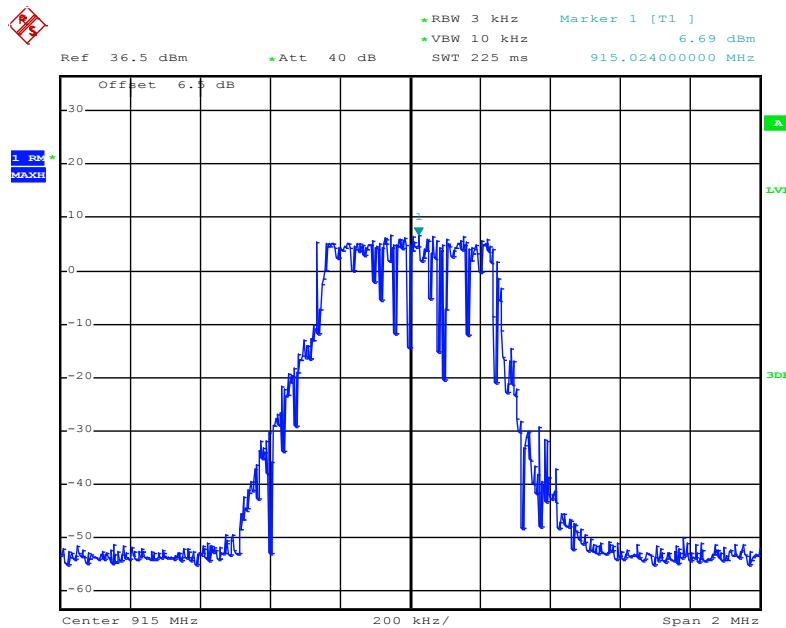
6.4 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e) RSS-247 section 5.2(b)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	8 dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test Frequency	Power Spectral Density (dBm)	Limit(dBm)	Result
915 MHz	6.69	8.00	Pass

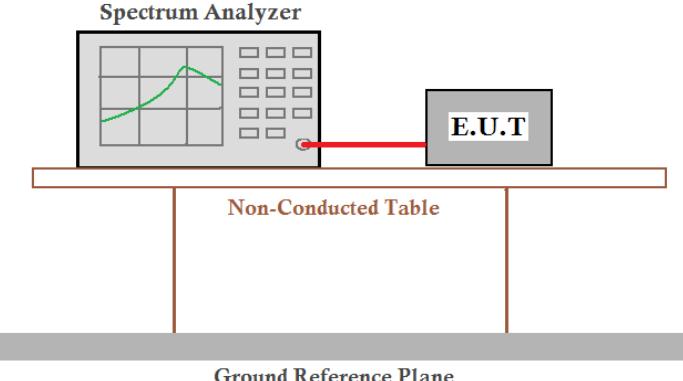
Test plots as follow:



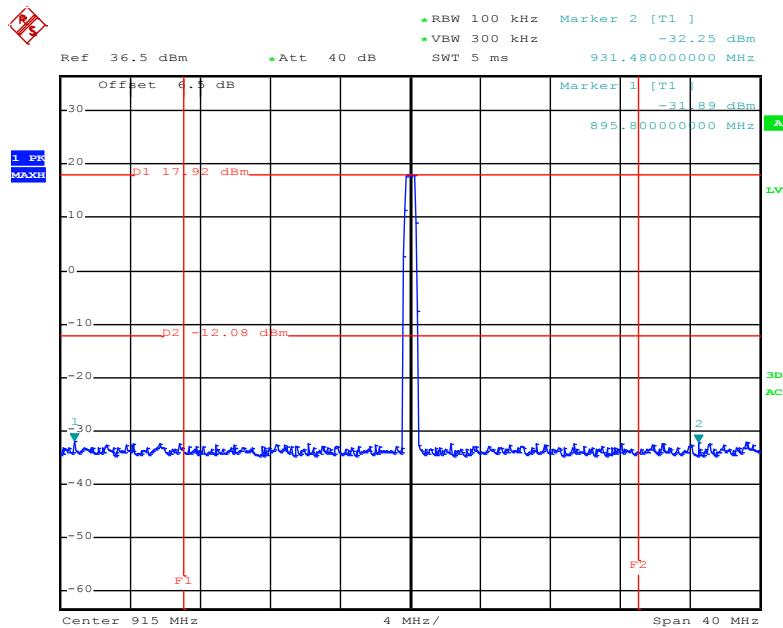
Date: 8.JUN.2018 19:12:27

6.5 Band Edge

6.5.1 Conducted Emission Method

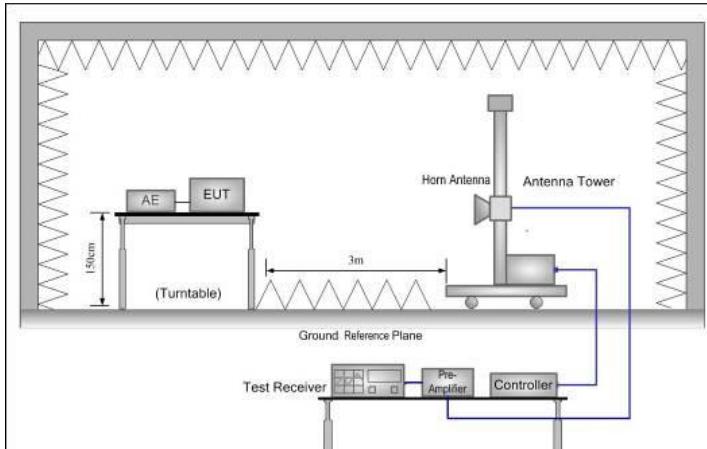
Test Requirement:	FCC Part 15 C Section 15.247 (d) RSS-247 section 5.5
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plots as follow:



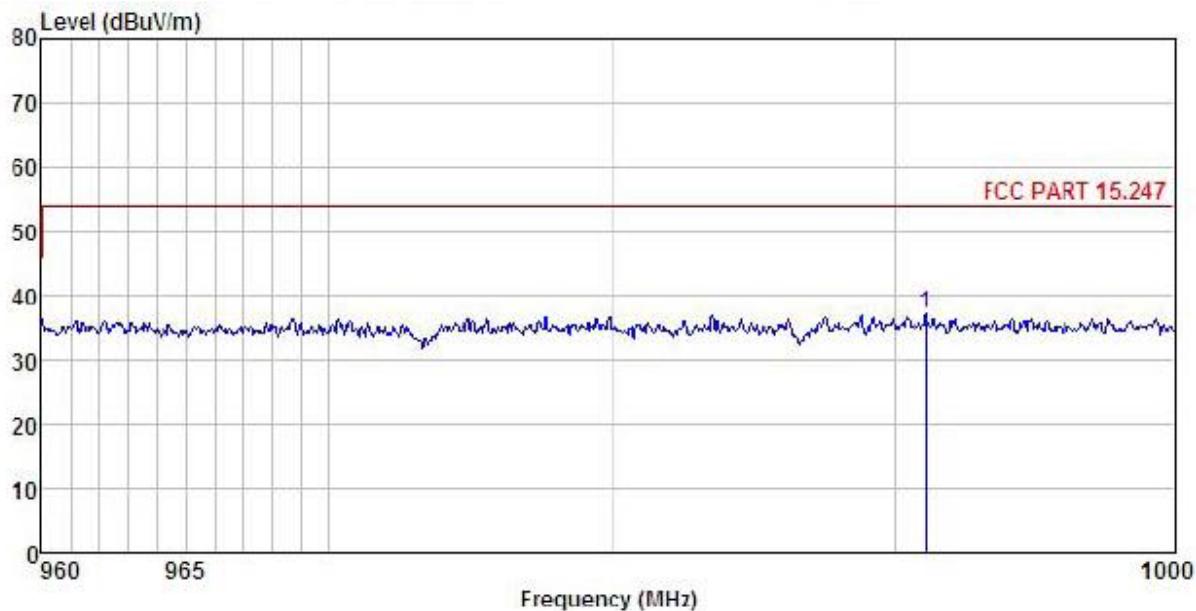
Date: 14.JUN.2018 15:40:18

6.5.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205 RSS-GEN section 8.10										
Test Method:	ANSI C63.10: 2013 and KDB 558074										
Test Frequency Range:	2.3GHz to 2.5GHz										
Test Distance:	3m										
Receiver setup:	Frequency	Detector	RBW	VBW	Remark						
	Above 1GHz	Peak	1MHz	3MHz	Peak Value						
Limit:	Frequency	Limit (dBuV/m @3m)		Remark							
	Above 1GHz	54.00		Average Value							
Test Procedure:		<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 									
Test setup:											
Test Instruments:	Refer to section 5.8 for details										
Test mode:	Refer to section 5.3 for details										
Test results:	Passed										

Below 1G:

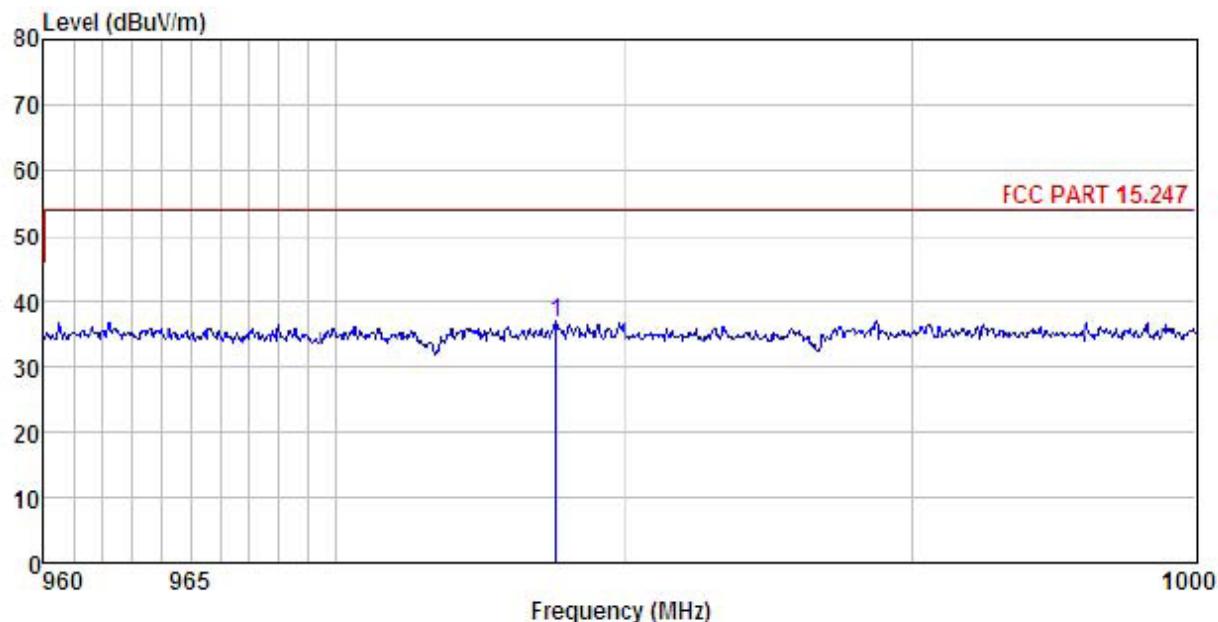
Test Polarization: Horizontal



Site : 3m chamber
Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
EUT : CAR ALARM (TWO WAY)
Model : TR3420BF
Test mode : TX mode
Power Rating : DC 3V
Environment : Temp:25.5°C Humi:55%
Test Engineer: Yaro
Remark :

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	991.100	10.01	22.73	4.42	0.00	37.16	54.00 -16.84 QP

Test Polarization: Vertical



Site : 3m chamber

Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL

EUT : CAR ALARM (TWO WAY)

Model : TR3420BF

Test mode : TX mode

Power Rating : DC 3W

Environment : Temp:25.5°C Huni:55%

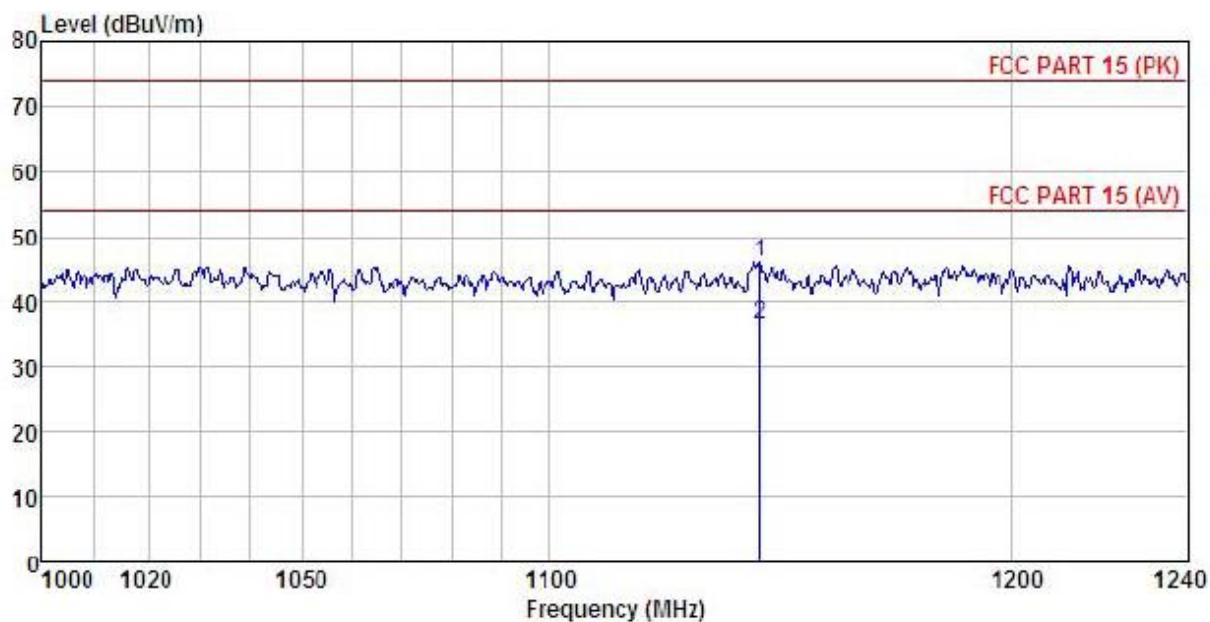
Test Engineer: Yaro

Remark :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	977.599	9.89	22.62	4.35	0.00	36.86
					54.00	-17.14
						QP

Above 1G:

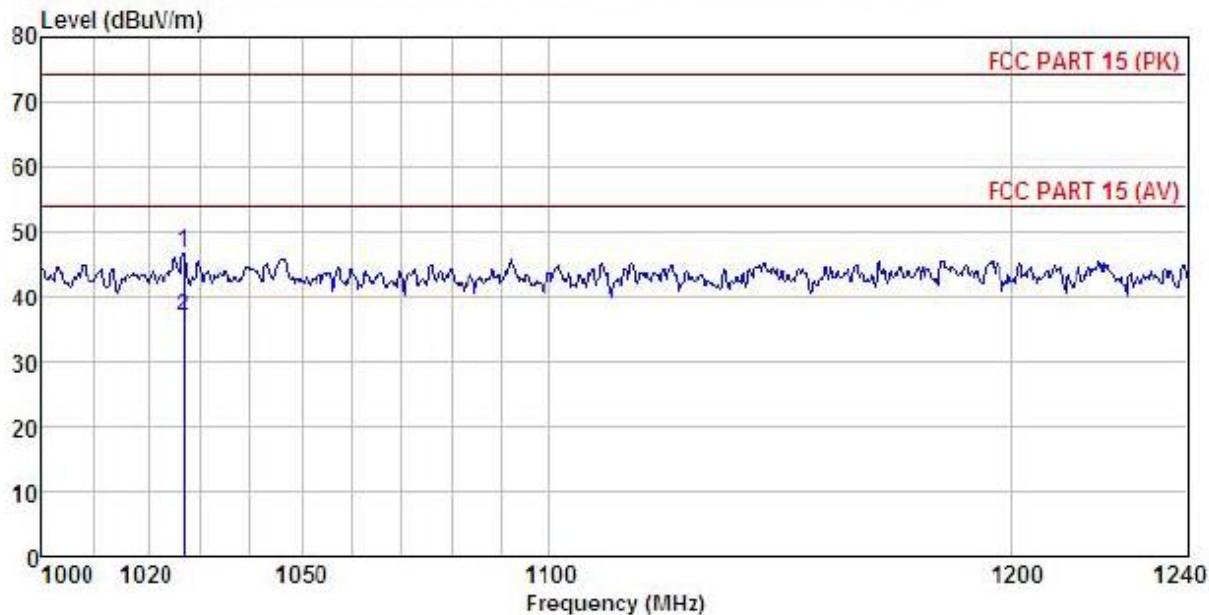
Test Polarization: Horizontal



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120 (1G18G) HORIZONTAL
EUT : CAR ALARM (TWO WAY)
Model : TR3420BF
Test mode : TX mode
Power Rating : DC 3W
Environment : Temp:25.5°C Huni:55%
Test Engineer: Yaro
Remark :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	1144.147	18.74	24.13	3.24	0.00	46.11
2	1144.147	0.16	24.13	3.24	0.00	36.53
					74.00	-27.89 Peak
					54.00	-17.41 Average

Test Polarization: Vertical

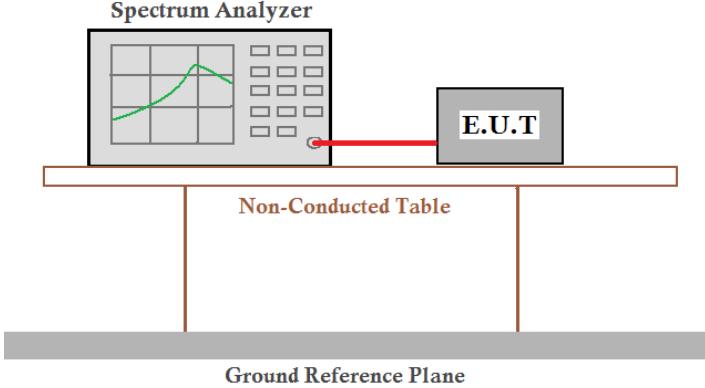


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120 (1G18G) VERTICAL
EUT : CAR ALARM (TWO WAY)
Model : TR3420BF
Test mode : TX mode
Power Rating : DC 3V
Environment : Temp:25.5°C Humi:55%
Test Engineer: Yaro
Remark :

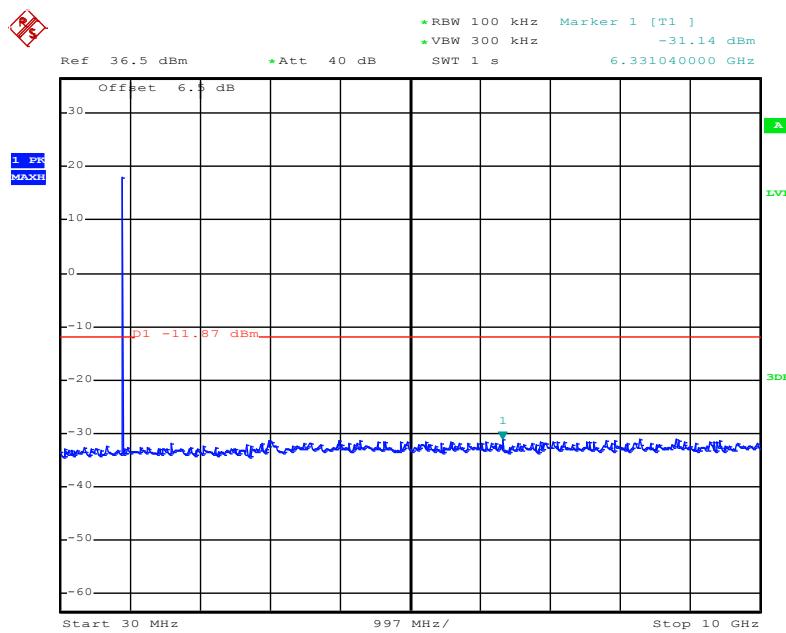
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1027.033	19.88	23.71	3.06	0.00	46.65	74.00	-27.35 Peak
2	1027.033	10.14	23.71	3.06	0.00	36.91	54.00	-17.09 Average

6.6 Spurious Emission

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d) RSS-247 section 5.5
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

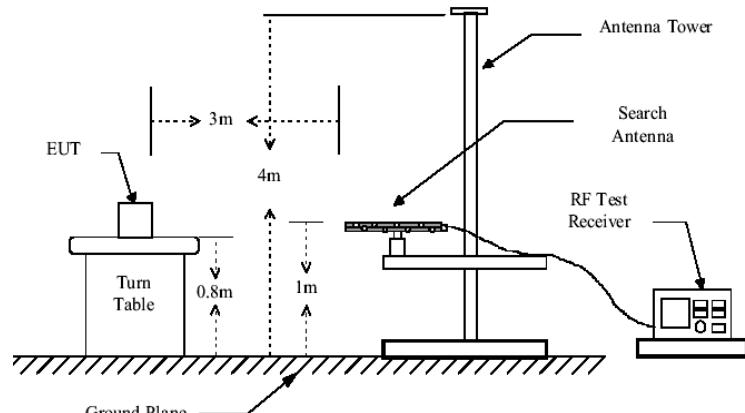


Date: 14.JUN.2018 14:16:29

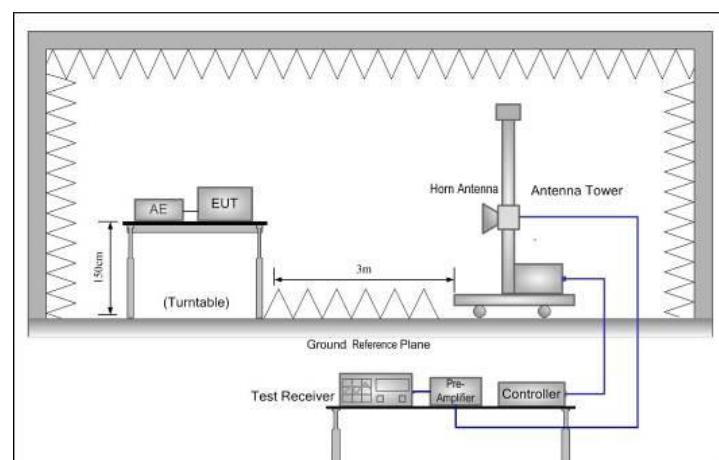
30MHz~10GHz

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205 RSS-Gen section 6.13								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		RMS	1MHz	3MHz	Average Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
	Above 1GHz	54.0		Average Value					
		74.0		Peak Value					
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 								
Test setup:	Below 1GHz								



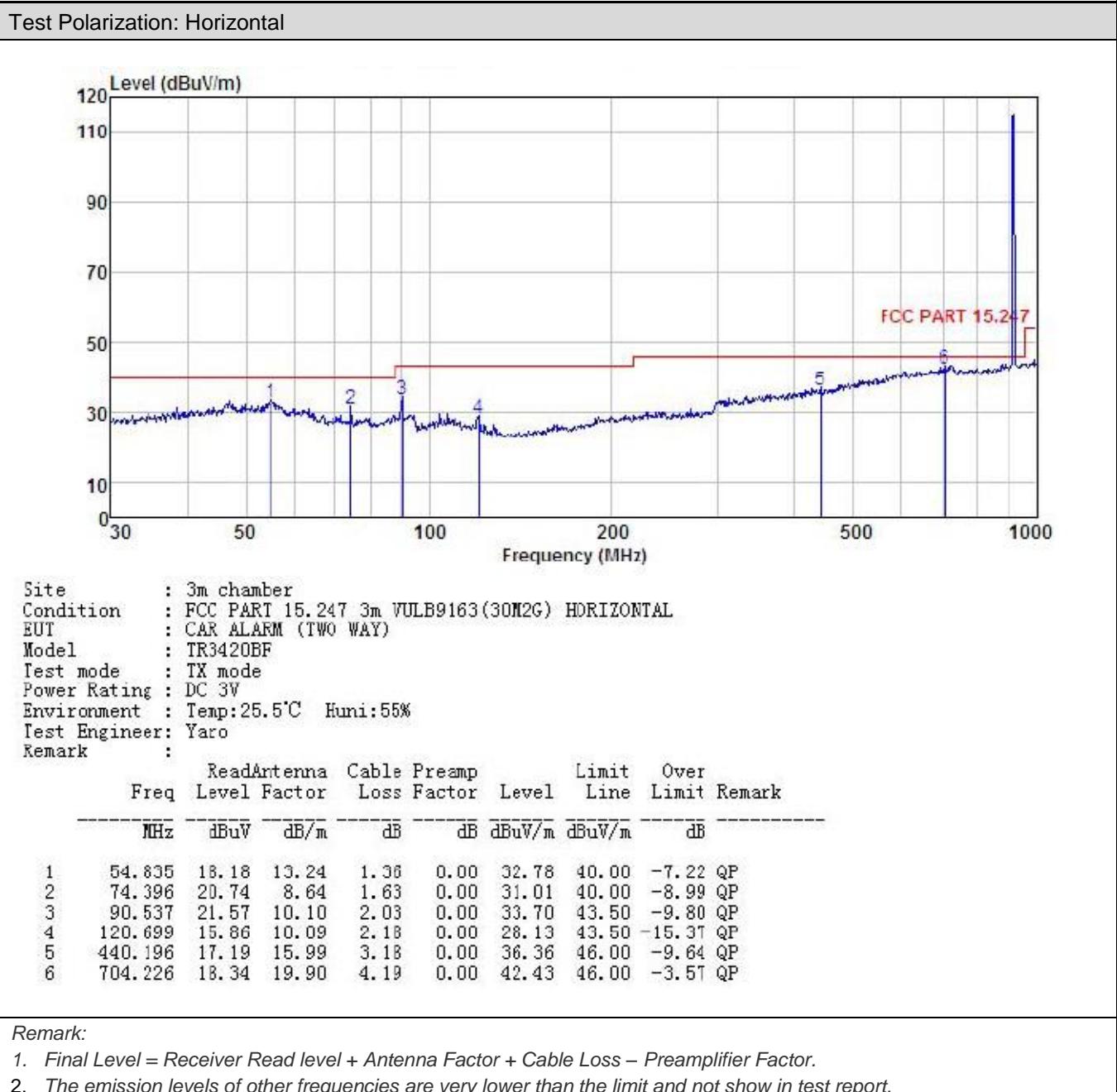
Above 1GHz



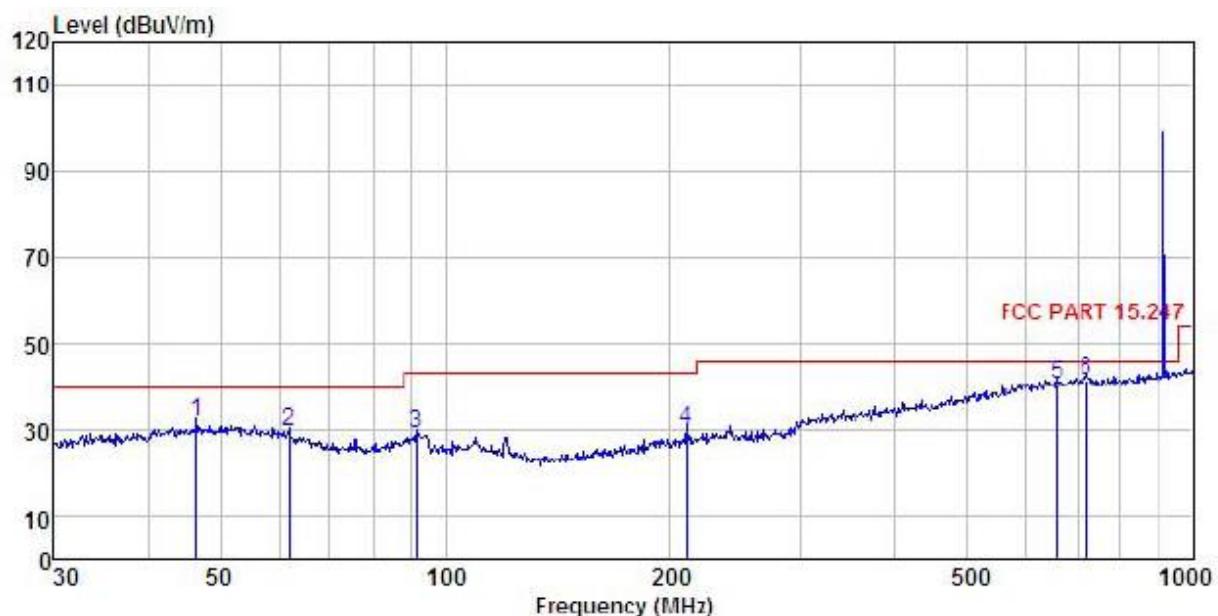
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol style="list-style-type: none"> 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Measurement Data (worst case):

Below 1GHz:



Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163 (30M2G) VERTICAL
 EUT : CAR ALARM (TWO WAY)
 Model : TR3420BF
 Test mode : TX mode
 Power Rating : DC 3V
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Yaro
 Remark :

Freq	Read		Antenna		Cable		Preamp	Limit	Over	Line	Limit	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m						
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	46.503	16.68	13.82	1.28	0.00	31.78	40.00	-8.22	QP			
2	61.778	16.53	11.77	1.38	0.00	29.68	40.00	-10.32	QP			
3	91.816	16.75	10.32	2.03	0.00	29.10	43.50	-14.40	QP			
4	210.048	15.47	11.90	2.88	0.00	30.23	43.50	-13.27	QP			
5	658.836	17.22	19.80	3.92	0.00	40.94	46.00	-5.06	QP			
6	721.726	17.17	20.33	4.28	0.00	41.76	46.00	-4.24	QP			

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 1GHz

Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1830.00	51.33	26.10	4.18	41.35	40.26	74.00	-33.74	Vertical
2745.00	45.48	28.12	5.09	41.71	36.98	74.00	-37.02	Vertical
3660.00	47.02	29.32	5.95	41.62	40.67	74.00	-33.33	Vertical
4575.00	47.11	31.24	6.89	42.13	43.11	74.00	-30.89	Vertical
5490.00	46.77	32.38	7.20	41.83	44.52	74.00	-29.48	Vertical
6405.00	47.41	34.23	8.22	41.93	47.93	74.00	-26.07	Vertical
1830.00	54.29	26.10	4.18	41.35	43.22	74.00	-30.78	Horizontal
2745.00	46.00	28.12	5.09	41.71	37.50	74.00	-36.50	Horizontal
3660.00	46.48	29.35	5.95	41.62	40.16	74.00	-33.84	Horizontal
4575.00	46.99	31.24	6.89	42.13	42.99	74.00	-31.01	Horizontal
5490.00	47.72	32.40	7.22	41.83	45.51	74.00	-28.49	Horizontal
6405.00	47.31	34.23	8.22	41.93	47.83	74.00	-26.17	Horizontal
Averagevalue								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1830.00	46.28	26.10	4.18	41.35	35.21	54.00	-18.79	Vertical
2745.00	39.21	28.12	5.09	41.71	30.71	54.00	-23.29	Vertical
3660.00	40.36	29.32	5.95	41.62	34.01	54.00	-19.99	Vertical
4575.00	39.89	31.24	6.89	42.13	35.89	54.00	-18.11	Vertical
5490.00	39.21	32.38	7.20	41.83	36.96	54.00	-17.04	Vertical
6405.00	40.13	34.23	8.22	41.93	40.65	54.00	-13.35	Vertical
1830.00	46.38	26.10	4.18	41.35	35.31	54.00	-18.69	Horizontal
2745.00	40.21	28.12	5.09	41.71	31.71	54.00	-22.29	Horizontal
3660.00	39.57	29.35	5.95	41.62	33.25	54.00	-20.75	Horizontal
4575.00	39.92	31.24	6.89	42.13	35.92	54.00	-18.08	Horizontal
5490.00	40.51	32.40	7.22	41.83	38.30	54.00	-15.70	Horizontal
6405.00	39.28	34.23	8.22	41.93	39.80	54.00	-14.20	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.