

JianYan Testing Group Shenzhen Co., Ltd.

Report No.: JYTSZ-R12-2200551

FCC RF Test Report

Applicant: PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.

Address of Applicant: NO#10, Luyi 2 Road, Keyuancheng, Tangxia Town

Equipment Under Test (EUT)

Product Name: CAR ALARM

Model No.: 18LCDLORTI

FCC ID: TBQT30-LR2WTI

Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 21 Mar., 2022

Date of Test: 22 Mar., to 20 May, 2022

Date of Report Issued: 23 May, 2022

Test Result: PASS

Tested by: Date: 23 May, 2022

Reviewed by: Date: 23 May, 2022

Approved by: Date: 23 May, 2022

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 above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	23 May, 2022	Original





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4 General Information

4.1 Client Information

Applicant:	PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.
Address:	NO#10, Luyi 2 Road, Keyuancheng, Tangxia Town
Manufacturer/ Factory:	DONGGUAN PORTMAN ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD.
Address:	NO.10, LUYI 2 ROAD, TANGXIA TOWN, DONGGUAN CITY GUANGDONG PROVINCE

4.2 General Description of E.U.T.

112 Contorui Docorip	
Product Name:	CAR ALARM
Model No.:	18LCDLORTI
Operation Frequency:	916.3 MHz
Channel Numbers:	1
Modulation Technology:	LoRa
Antenna Type:	Helix Antenna
Antenna Gain:	-1.25dBi (declare by applicant)
Power Supply:	DC 3V(Battery CR2450)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Report No.: JYTSZ-R12-2200551

4.3 Test Mode and Test Environment

Test Mode:				
Transmitting mode	Keep the EUT in continuous transmitting with modulation			
Remark: The report only reflect	ts the test data of worst mode.			
Operating Environment:				
Temperature:	15℃ ~ 35℃			
Humidity:	20 % ~ 75 % RH			
Atmospheric Pressure:	1010 mbar			

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))		
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB		
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB		
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB		

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

4.6 Additions to, Deviations, or Exclusions from the Method

No

4.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

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

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen 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 L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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

4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

Email: info-JYTee@lets.com, Website: http://jyt.lets.com

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-168-C No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366



4.9 Test Instruments List

Radiated Emission(3m SAC):						
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024	
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023	
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022	
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023	
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022	
Llaws Austanasa	Cabusambaak	DD1140470	14/1/1000 5	04-07-2021	04-06-2022	
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	04-07-2022	04-06-2023	
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	04-07-2021	04-06-2022	
Horn Antenna	Schwarzbeck	BBHA9170	W XJUU2-6	04-07-2022	04-06-2023	
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	02-17-2022	02-16-2023	
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	02-17-2022	02-16-2023	
Pre-amplifier	55.0	TRLA-	140/1000 7	03-30-2021	03-29-2022	
(18GHz ~ 40GHz)	RF System	180400G45B	WXJ002-7	03-30-2022	03-29-2023	
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023	
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022	
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023	
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN- 8M	WXG001-5	02-17-2022	02-16-2023	
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS- 8M	WXG001-7	02-17-2022	02-16-2023	
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N	I/A	
Test Software	Tonscend	TS+		Version: 3.0.0.1		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	10-27-2021	10-26-2022



5 Measurement Setup and Procedure

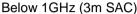
5.1 Test Channel

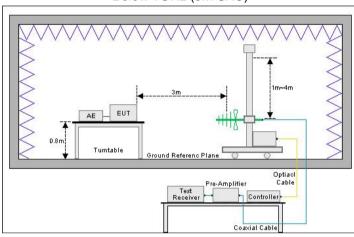
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Channel No.	Frequency (MHz)
1	916.3

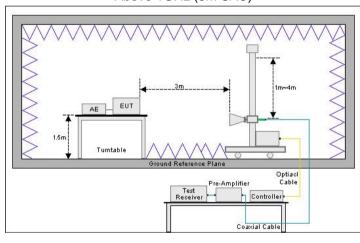
5.2 Test Setup

1) Radiated emission measurement:



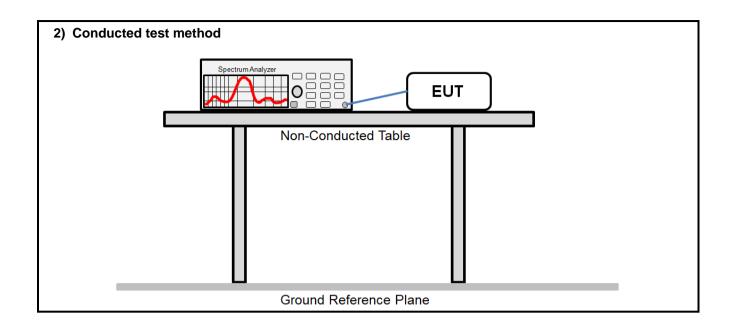


Above 1GHz (3m SAC)













5.3 Test Procedure

Test method	Test step
Conducted emission	The E.U.T and simulators are connected to the main power through a line
Conducted emission	impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH
	coupling impedance for the measuring equipment.
	The peripheral devices are also connected to the main power through a LISN
	that provides a 500hm/50uH coupling impedance with 500hm termination.
	(Please refer to the block diagram of the test setup and photographs).
	3. 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 on
	conducted measurement.
Radiated emission	For below 1GHz:
	1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a
	3 m semi anechoic chamber. The measurement distance from the EUT to the
	receiving antenna is 3 m.
	2. EUT works in each mode of operation that needs to be tested, and having
	the EUT continuously working, respectively on 3 axis (X, Y & Z) and
	considered typical configuration to obtain worst position. The highest signal
	levels relative to the limit shall be determined by rotating the EUT from 0° to
	360° and with varying the measurement antenna height between 1 m and 4
	m in vertical and horizontal polarizations.3. Open the test software to control the test antenna and test turntable. Perform
	the test, save the test results, and export the test data.
	and tool, date and tool rooding, and export and tool data.
	For above 1GHz:
	1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a
	3 m fully anechoic room. The measurement distance from the EUT to the
	receiving antenna is 3 m.
	2. EUT works in each mode of operation that needs to be tested, and having
	the EUT continuously working, respectively on 3 axis (X, Y & Z) and
	considered typical configuration to obtain worst position. The highest signal
	levels relative to the limit shall be determined by rotating the EUT from 0° to
	360° and with varying the measurement antenna height between 1 m and 4
	m in vertical and horizontal polarizations.
	3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	The antenna port of EUT was connected to the test port of the test system
Solidation test method	through an RF cable.
	The EUT is keeping in continuous transmission mode and tested in all
	modulation modes.
	3. Open the test software, prepare a test plan, and control the system through
	the software. After the test is completed, the test report is exported through
	the test software.



6 Test Results

6.1 Summary

6.1.1 Clause and Data Summary

Test items	Standard clause Test data		Result	
Antenna Requirement	15.203 15.247 (b)(4)	See Section 6.2	Pass	
AC Power Line Conducted Emission	15.207	N/A	N/A	
Conducted Output Power	15.247 (b)(3)	See Section 6.3	Pass	
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	See Section 6.4	Pass	
Power Spectral Density	15.247 (e)	See Section 6.5	Pass	
Spurious Emission	15.205 15.209 15.247 (d)	See Section 6.6	Pass	

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02



6.1.2 Test Limit

Test items	Limit					
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.					
6dB Emission Bandwidth	The minimum 6 dB bands	The minimum 6 dB bandwidth shall be at least 500 kHz.				
99% Occupied Bandwidth	N/A					
Power Spectral Density	intentional radiator to the	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.				
Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c)):					
	Frequency	Limit (dΒμV/m)	Detector		
	(MHz)	@ 3m	@ 10m	Detector		
	30 – 88	40.0	30.0	Quasi-peak		
	88 – 216	43.5	33.5	Quasi-peak		
	216 – 960	216 – 960 46.0 36.0 Quasi-p		Quasi-peak		
	960 – 1000 54.0 44.0 Quasi-peak			Quasi-peak		
	Note: The more stringent limit applies at transition frequencies.					
	Limit (dBμV/m) @ 3m					
	Frequency	Average		Peake		
	Above 1 GHz 54.0 74.0					
	Above 1 GHz	5	4.0	74.0		



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6.2 Antenna requirement

Standard requirement: FCC Part 15 C Section 15.203 /247(b)(4)

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(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The EUT antenna is an Helix Antenna which cannot replace by end-user, the best case gain of the antenna is -1.25 dBi. See product internal photos for details.

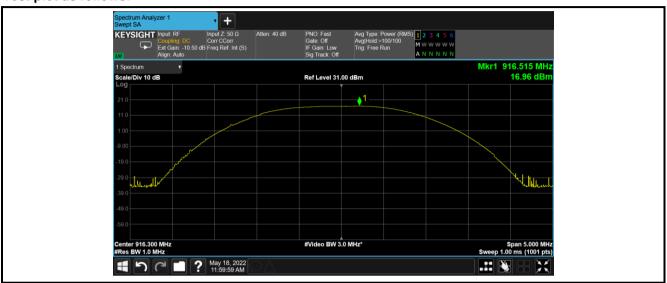




6.3 Conducted Output Power

Test Frequency	Maximum Output Power (dBm)	Limit(dBm)	Result
916.3 MHz	16.96	30.00	Pass

Test plot as follows:





6.4 Emission Bandwidth

Test Frequency	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
916.3 MHz	0.741	>500	Pass
Test Frequency	99% Occupy Bandwidth (MHz)	Limit (kHz)	Result
916.3 MHz	0.619	N/A	N/A

Test plot as follows:





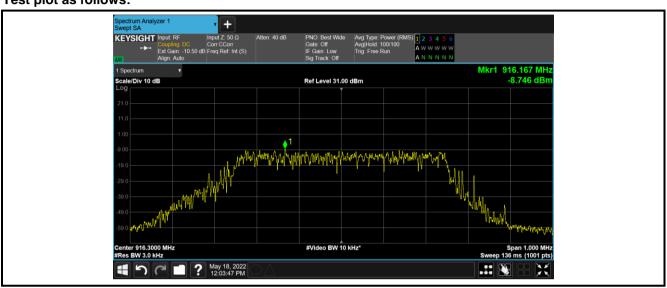




6.5 Power Spectral Density

Test Frequency	Power Spectral Density (dBm/3kHz)		Result
916.3 MHz	-8.746	8.00	Pass

Test plot as follows:

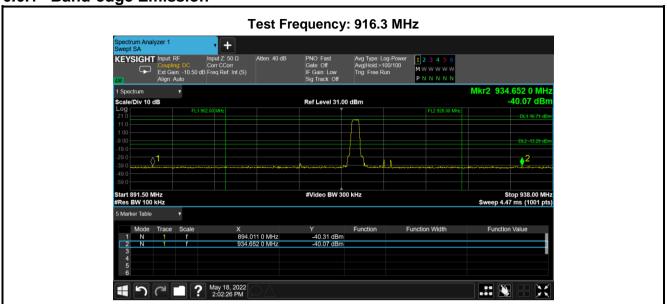






6.6 Spurious Emission

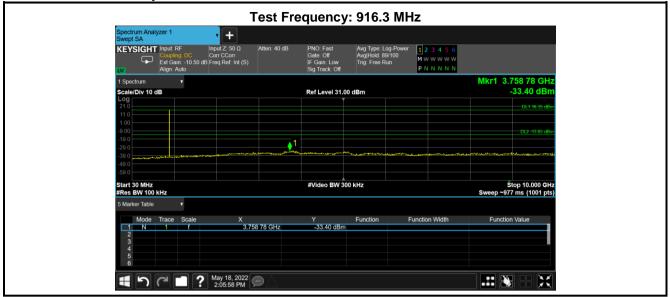
6.6.1 Band-edge Emission







6.6.2 Conducted Spurious Emission







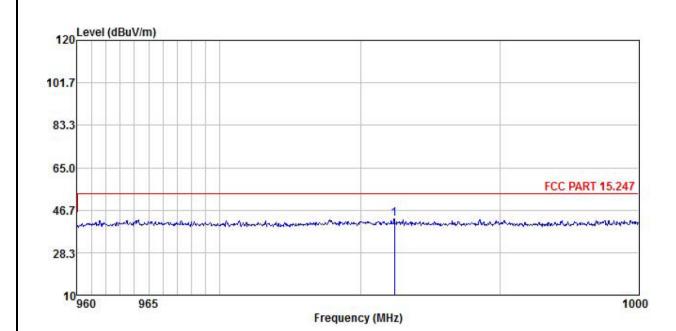
6.6.3 Emissions in Restricted Frequency Bands

duct Name:	CAR ALA	ALARM			Produc	ct Model:	18LC	DLORTI		
t By:	Mike					Test m	ode:	Tx m	ode	
t Frequency:	960 MHz	2 ~ 1000MI	Hz			Polariz	Polarization: Vertical			
t Voltage:	DC 3V									
120 Level (dB	uV/m)									-
1000										
101.7										
83.3										
03.3										
65.0										
Constant								F	CC PART 1	5.247
46.7	de successive	ويكرسمياسمال	January Company	rusereda	war on the same	MANAGE WALL	Was allowed to the state of the	i i	CC PART 1	1
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28.3	965	april miles	Janes of the contract of the c	ringeradah	manness of the graph	and the second of the second	ideras silles de proprieta de la constitución de la constitución de la constitución de la constitución de la c	i i		1
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28.3	965	en e	"Jameskapovovinski straja	Fre			throught and some of the same	i i		1
28.3 10 960		.cadAnte	enna C		equency (M	IHz)		Andrew Strawn Strawnson		1
28.3 10 960	965 Freq Le	eadAnte	enna Ca		equency (M	IHz)		Andrew Strawn Strawnson		1
28.3 10 960	F Freq Le		enna Ca ctor I	able Loss	equency (M Preamp Factor	IHz)	Limit Line	Andrew Strawn Strawnson		1

1. Level = Read level + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



Product Name:	CAR ALARM	Product Model:	18LCDLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	960 MHz ~ 1000MHz	Polarization:	Horizontal
Test Voltage:	DC 3V		

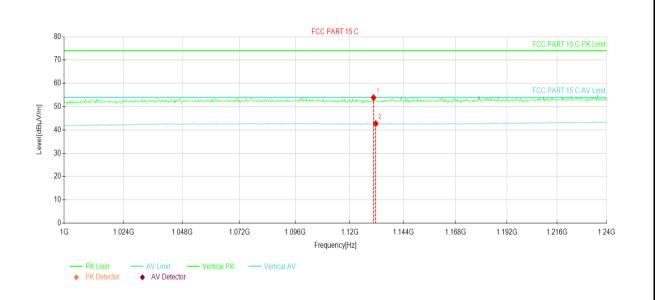


	Freq		Antenna Factor						
	MHz	dBu∇		<u>dB</u>	<u>dB</u>	dBu√/m	dBu√/m	dB	
1	982.399	16.20	23.00	3.61	0.00	42.81	54.00	-11.19	

1. Level = Read level + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



Product Name:	CAR ALARM	Product Model:	18LCDLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1000 MHz ~ 1240MHz	Polarization:	Vertical
Test Voltage:	DC 3V		

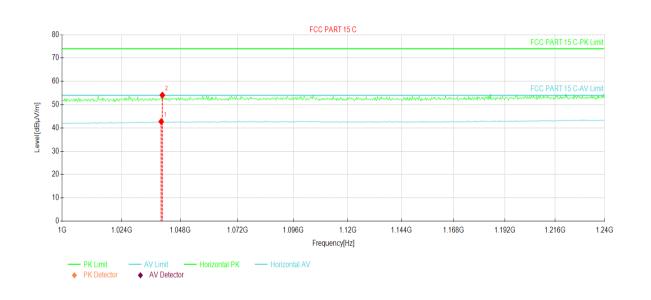


Suspe	Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity	
1	1130.560	23.66	53.86	30.20	74.00	20.14	PK	Vertical	
2	1131.520	12.53	42.73	30.20	54.00	11.27	AV	Vertical	

1. Level = Read level + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



Product Name:	CAR ALARM	Product Model:	18LCDLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1000 MHz ~ 1240MHz	Polarization:	Horizontal
Test Voltage:	DC 3V		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1040.080	12.87	42.72	29.85	54.00	11.28	AV	Horizontal
2	1040.560	24.25	54.10	29.85	74.00	19.90	PK	Horizontal

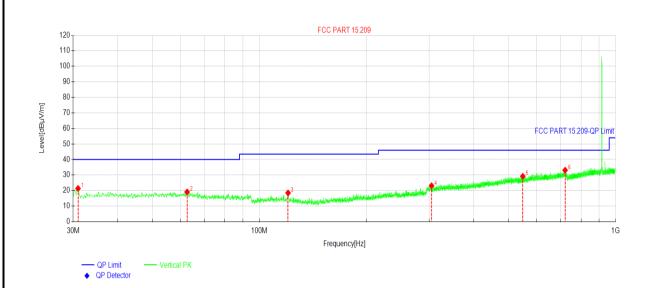
1. Level = Read level + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



6.6.4 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	CAR ALARM	Product Model:	18LCDLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3V		



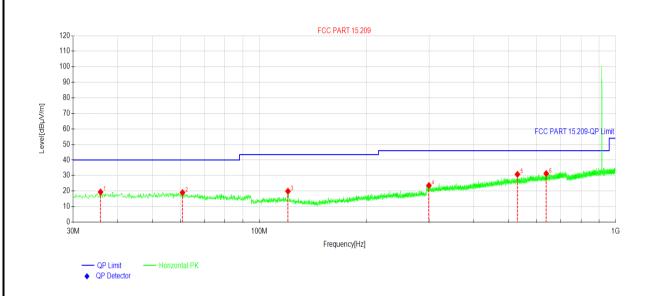
Suspe	Suspected Data List									
NO.	Freq.	Reading[d	Level	Factor	Limit	Margin	Traco	Dolority		
NO.	[MHz]	BµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	Trace	Polarity		
1	30.9701	39.61	21.37	-18.24	40.00	18.63	PK	Vertical		
2	62.6923	36.62	19.10	-17.52	40.00	20.90	PK	Vertical		
3	120.413	36.66	18.46	-18.20	43.50	25.04	PK	Vertical		
4	304.440	37.16	23.09	-14.07	46.00	22.91	PK	Vertical		
5	549.195	38.73	29.21	-9.52	46.00	16.79	PK	Vertical		
6	722.067	40.10	33.11	-6.99	46.00	12.89	PK	Vertical		

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



Product Name:	CAR ALARM	Product Model:	18LCDLORTI	
Test By:	Mike	Test mode:	Tx mode	
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal	
Test Voltage:	DC 3V			



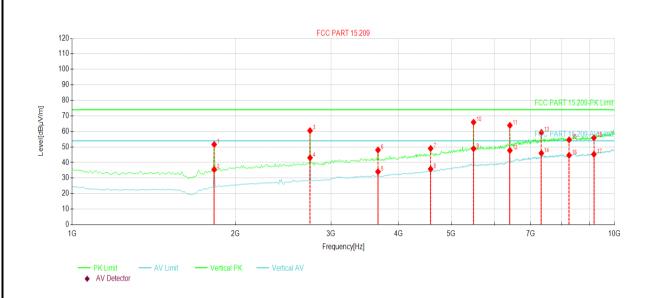
Susp	Suspected Data List								
NO.	Freq. [MHz]	Reading[d BµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity	
1	35.8206	36.64	19.40	-17.24	40.00	20.60	PK	Horizontal	
2	60.8491	36.35	19.03	-17.32	40.00	20.97	PK	Horizontal	
3	120.316	38.08	19.89	-18.19	43.50	23.61	PK	Horizontal	
4	299.298	37.73	23.59	-14.14	46.00	22.41	PK	Horizontal	
5	530.570	40.26	30.77	-9.49	46.00	15.23	PK	Horizontal	
6	639.026	39.37	31.27	-8.10	46.00	14.73	PK	Horizontal	

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).



Above 1GHz:

Product Name:	CAR ALARM	Product Model:	18LCDLORTI	
Test By:	Mike	Test mode:	Tx mode	
Test Frequency:	30 MHz ~ 10 GHz	Polarization:	Vertical	
Test Voltage:	DC 3V			



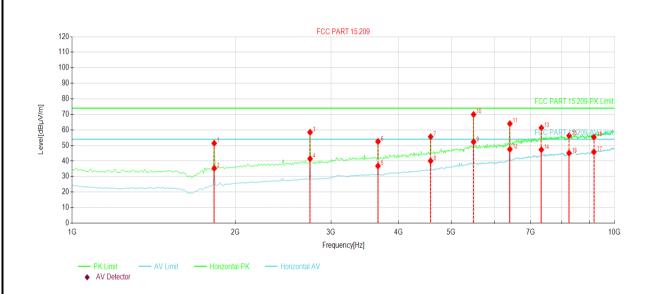
Susp	Suspected Data List							
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1828.00	72.87	51.61	-21.26	74.00	22.39	PK	Vertical
2	1828.00	56.74	35.48	-21.26	54.00	18.52	AV	Vertical
3	2746.00	78.08	60.51	-17.57	74.00	13.49	PK	Vertical
4	2746.00	60.62	43.05	-17.57	54.00	10.95	AV	Vertical
5	3664.00	48.71	34.08	-14.63	54.00	19.92	AV	Vertical
6	3664.00	62.67	48.04	-14.63	74.00	25.96	PK	Vertical
7	4581.50	59.48	49.04	-10.44	74.00	24.96	PK	Vertical
8	4581.50	46.24	35.80	-10.44	54.00	18.20	AV	Vertical
9	5497.80	54.95	48.87	-6.08	54.00	5.13	AV	Vertical
10	5497.80	71.98	65.90	-6.08	74.00	8.10	PK	Vertical
11	6414.10	66.61	63.89	-2.72	74.00	10.11	PK	Vertical
12	6414.10	50.48	47.76	-2.72	54.00	6.24	AV	Vertical
13	7330.40	59.28	59.38	0.10	74.00	14.62	PK	Vertical
14	7330.40	45.87	45.97	0.10	54.00	8.03	AV	Vertical
15	8246.70	53.31	54.59	1.28	74.00	19.41	PK	Vertical
16	8246.70	43.35	44.63	1.28	54.00	9.37	AV	Vertical
17	9163.00	43.03	45.29	2.26	54.00	8.71	AV	Vertical
18	9163.00	53.66	55.92	2.26	74.00	18.08	PK	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



Product Name:	CAR ALARM	Product Model:	18LCDLORTI	
Test By:	Mike	Test mode:	Tx mode	
Test Frequency:	30 MHz ~ 10 GHz	Polarization:	Horizontal	
Test Voltage:	DC 3V			



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1828.00	72.66	51.40	-21.26	74.00	22.60	PK	Horizontal
2	1828.00	56.54	35.28	-21.26	54.00	18.72	AV	Horizontal
3	2746.00	76.05	58.48	-17.57	74.00	15.52	PK	Horizontal
4	2746.00	59.03	41.46	-17.57	54.00	12.54	AV	Horizontal
5	3664.00	51.43	36.80	-14.63	54.00	17.20	AV	Horizontal
6	3664.00	67.17	52.54	-14.63	74.00	21.46	PK	Horizontal
7	4581.50	66.04	55.60	-10.44	74.00	18.40	PK	Horizontal
8	4581.50	50.49	40.05	-10.44	54.00	13.95	AV	Horizontal
9	5497.80	58.39	52.31	-6.08	54.00	1.69	AV	Horizontal
10	5497.80	76.03	69.95	-6.08	74.00	4.05	PK	Horizontal
11	6414.10	66.73	64.01	-2.72	74.00	9.99	PK	Horizontal
12	6414.10	50.28	47.56	-2.72	54.00	6.44	AV	Horizontal
13	7330.40	61.21	61.31	0.10	74.00	12.69	PK	Horizontal
14	7330.40	47.18	47.28	0.10	54.00	6.72	AV	Horizontal
15	8246.70	55.02	56.30	1.28	74.00	17.70	PK	Horizontal
16	8246.70	43.81	45.09	1.28	54.00	8.91	AV	Horizontal
17	9163.00	43.58	45.84	2.26	54.00	8.16	AV	Horizontal
18	9163.00	53.11	55.37	2.26	74.00	18.63	PK	Horizontal

1. Level = Read level + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).

-----End of report-----