RADIO TEST REPORT

For

Quanshun Communication Technology Co., Ltd

DMR Digital Portable Radio

Test Model: D5X

Prepared for Address	:	Quanshun Communication Technology Co., Ltd Quanshun Bldg., Daxiamei, Nan'an, Quanzhou, Fujian, China 362302
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	Bao'an District Shenzhen Guangdong China
Tel	:	(+86)755-82591330
Fax	:	(+86)755-82591332
Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	May 15, 2016
Number of tested samples	:	1
Serial number	:	D5X
Date of Test	:	May 15, 2016 ~ June 11, 2016
Date of Report	:	June 25, 2016

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADQZTPD5X

RADIO TEST REPORT FCC Part 90		
Report Reference No	: LCS1412030188E	
Date of Issue	: June 25, 2016	
Testing Laboratory Name	: Shenzhen LCS Compliance Testing Laboratory Ltd.	
Address	: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China	
Testing Location/ Procedure	: Full application of Harmonised standards	
	Partial application of Harmonised standards \Box	
	Other standard testing method \Box	
Applicant's Name	: Quanshun Communication Technology Co., Ltd	
Address	: Quanshun Bldg., Daxiamei, Nan'an, Quanzhou, Fujian, China 362302	
Test Specification		
Standard	: FCC Part 90/FCC Part 2/FCC Part 15B	
Test Report Form No	: LCSEMC-1.0	
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.	
Master TRF	: Dated 2011-03	
Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.		
Test Item Description	: DMR Digital Portable Radio	
Trade Mark	: Talkpod	
Test Model	: D5X	
Ratings	: DC 7.4V by Lithium ion polymer battery(1650mAh) Recharge Voltage: DC 8.4V/400mA	
Result	: Positive	
Compiled by:	Supervised by: Approved by:	
Aking Jin	Com Grim Ling	

Aking Jin/ File administrators

Glin Lu/ Technique principal

Gravino Liang

Gavin Liang/ Manager

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 2 of 57

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADQZTPD5X Report No.: LCS1412030188E

RADIO -- TEST REPORT

Test Report No. : LCS1412030188E

June 25, 2016 Date of issue

Test Model	: D5X
EUT	: DMR Digital Portable Radio
Applicant	: Quanshun Communication Technology Co., Ltd
Address	: Quanshun Bldg., Daxiamei, Nan'an, Quanzhou, Fujian, China 362302
Telephone	:/
Fax	:/
Manufacturer	: Quanshun Communication Technology Co., Ltd
Address	Quanshun Bldg., Daxiamei, Nan'an, Quanzhou, Fujian, China : 362302
Telephone	:/
Fax	: /
Factory	: Quanshun Communication Technology Co., Ltd
Address	: Quanshun Bldg., Daxiamei, Nan'an, Quanzhou, Fujian, China
	362302
Telephone	: /
Fax	:/

Test Result	Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Revision History

Revision	Issue Date	Revisions	Revised By
00	2016-06-08	Initial Issue	Gavin Liang
01	2016-08-04	Add description of Radiated spurious emission	Gavin Liang

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 4 of 57

TABLE OF CONTENTS

1.GENEI	RAL INFORMATION	6
1.1.	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2.	OBJECTIVE	6
1.3.	RELATED SUBMITTAL(S)/GRANT(S)	6
1.4.	DESCRIPTION OF TEST FACILITY	7
1.5.	SUPPORT EQUIPMENT LIST	7
1.6.	EXTERNAL I/O	7
1.7.	Measurement Uncertainty	7
1.8.	Test Environment	7
1.9.	DESCRIPTION OF TEST MODES	7
2.SYSTE	M TEST CONFIGURATION	9
2.1.	JUSTIFICATION	9
2.2.	EUT Exercise Software	9
2.3.	SPECIAL ACCESSORIES	9
2.4.	BLOCK DIAGRAM/SCHEMATICS	9
2.5.	EQUIPMENT MODIFICATIONS	9
2.6.	CONFIGURATION OF TEST SETUP	9
3.SUMM	ARY OF TEST RESULT1	0
4. TEST (CONDITIONS AND RESULTS 1	1
4.1.	CONDUCTED EMISSIONS TEST	1
4.2.	OCCUPIED BANDWIDTH AND EMISSION MASK TEST	5
4.3.	TRANSMITTER RADIATED SPURIOUS EMISSION	23
4.4.	SPURIOUS EMISSION ON ANTENNA PORT	28
4.5.	MODULATION CHARACTERISTICS	12
4.6.	FREQUENCY STABILITY TEST4	15
4.7.	MAXIMUM TRANSMITTER POWER4	7
4.8.	TRANSMITTER FREQUENCY BEHAVIOR	54
5.LIST O	F MEASURING EQUIPMENT	57

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	: DMR Digital Portable Radio
Test Model	: D5X
Power Supply	: DC 7.4V by Lithium ion polymer battery(1650mAh)
	Recharged by DC 8.4V/400mA
Hardware Version	: TP-D5X UHF-V1.X
Software Version	: TP-D5X V1.00
Frequency Range	: 400MHz-470MHz
Channel Separation	: Analog Voice 12.5KHz
	Digital Voice/Data 12.5KHz
	Digital Data 12.5KHz
Modulation Type	: FM for Analog Voice
	4FSK for Digital Voice/Digital Data
	4FSK for Digital Data
Emission Designator	: 11K0F3E for FM Modulation at 12.5KHz Channel Separation
	7K60FXD for Digital Data only at 12.5KHz Channel Separation
	7K60FXW for Digital Data & Digital Voice at 12.5KHz Channel Separation
Antenna Description	: External, 0dBi (Max)
Rated Power	: 4Wattes/1Watts

Note: The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.

1.2. Objective

The tests were performed according to following standards: <u>FCC Rules Part 90: 2015</u>: PRIVATE LAND MOBILE RADIO SERVICES. <u>47 CFR FCC Part 15 Subpart B: 2015</u> - Unintentional Radiators <u>FCC Part 2</u>: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS <u>TIA/EIA 603 D: June 2014</u>: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

1.4. Description of Test Facility

CNAS Registration Number. is L4595.
FCC Registration Number. is 899208.
Industry Canada Registration Number. is 9642A-1.
VCCI Registration Number. is C-4260 and R-3804.
ESMD Registration Number. is ARCB0108.
UL Registration Number. is 100571-492.
TUV SUD Registration Number. is SCN1081.
TUV RH Registration Number. is UA 50296516-001

1.5. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Quanshun Communication Technology Co., Ltd	Adapter	BC-50A		CE
Quanshun Communication Technology Co., Ltd	Charger	BC-50D		CE

1.6. External I/O

I/O Port Description	Quantity	Cable
Microphone Jack	1	N/A
Earphone Jack	1	N/A
Battery Pole Piece	1	N/A

1.7. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	Measurement Uncertainty	Notes
Frequency stability	30 Hz	(1)
Transmitter power conducted	0.62 dB	(1)
Transmitter power Radiated	2.67 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.88 dB	(1)
Conducted Emission 9KHz-30MHz	1.63 dB	(1)
Radiated Emission 30~1000MHz	4.65 dB	(1)
Radiated Emission 1~18GHz	3.89 dB	(1)
Radiated Emission 18-40GHz	3.90 dB	(1)
Occupied Bandwidth		(1)
Emission Mask		(1)
Modulation Characteristic		(1)
Transmitter Frequency Behavior		(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.8. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

1.9. Description Of Test Modes

The EUT has been tested under typical operating condition and The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 7 of 57

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

EUT operation mode no.	Description of operation mode	Additional information
Op 1	FM+BW12.5KHz+TX	The equipment is set with FM modulation and 12.5KHz bandwidth at maximum rated power for transmitter, powered by DC 7.40V
Op 2	FM+BW12.5KHz+TX	The equipment is set with FM modulation and 12.5KHz bandwidth at minimum rated power for transmitter, powered by DC 7.40V
Op 3	4FSK+BW12.5KHz+TX	The equipment is set with 4FSK modulation and 12.5KHz bandwidth at maximum rated power for transmitter, powered by DC 7.40V
Op 4	4FSK+BW12.5KHz+TX	The equipment is set with 4FSK modulation and 12.5KHz bandwidth at minimum rated power for transmitter, powered by DC 7.40V
Op 5	FM+BW12.5KHz+RX (Standby)	The equipment is set with FM modulation and 12.5KHz bandwidth at Receiver/Standby mode, powered by DC 7.40V(or for charging mode for AC conducted emission)
Op 6	4FSK+BW12.5KHz+RX (Standby)	The equipment is set with 4FSK modulation and 12.5KHz bandwidth at Receiver/Standby mode, powered by DC 7.40V(or for charging mode for AC conducted emission)

Test frequency list

Madulation Type	Channel	Test Channel	Test Frequency (MHz)		
Modulation Type	Separation	Test Channel	TX	RX	
		Ch1	406.125	406.125	
Analog/FM	12.5KHz	Ch2	456.125	456.125	
		Ch3	469.975	469.975	
		Ch4	406.125	406.125	
Digital/4FSK	12.5KHz	Ch5	456.125	456.125	
		Ch6	469.975	469.975	

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

2. SYSTEM TEST CONFIGURATION

2.1. Justification

The system was configured for testing in engineering mode.

2.2. EUT Exercise Software

N/A.

2.3. Special Accessories

N/A.

2.4. Block Diagram/Schematics

Please refer to the related document.

2.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

2.6. Configuration of Test Setup

Please refer to the test setup photo.

3. SUMMARY OF TEST RESULT

Test specification clause	Test case	Verdict
FCC Part 15.107	Conducted Emission	PASS
FCC Part 90.205	Maximum Transmitter Power	PASS
FCC Part 90.207	Modulation Characteristic	PASS
FCC Part 90.209	Occupied Bandwidth	PASS
FCC Part 90.210	Emission Mask	PASS
FCC Part 90.213	Frequency Stability	PASS
FCC Part 90.214	Transmitter Frequency Behavior	PASS
FCC Part 90.210	Transmitter Radiated Spurious Emission	PASS
FCC Part 90.210	Spurious Emission On Antenna Port	PASS

Remark:

1. The measurement uncertainty is not included in the test result.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 10 of 57

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST APPLICABLE

The EUT was tested according to ANSI C63.4 - 2014. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 u Henry as specified by section 5.1 of ANSI C63.4 - 2014. Cables and peripherals were moved to find the maximum emission levels for each frequency.

TEST CONFIGURATION

For AC Power



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2014.
- 2 Support equipment, if needed, was placed as per ANSI C63.4-2014.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2014.
- 4 If a EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 11 of 57

Conducted Power Line Emission Limit

For intentional device, according to § 15.207(a) and RSS-Gen Section 7.2.4 for AC Power Conducted Emission Limits is as following:

Engguaray		Maximum RF Line Voltage (dBµV)				
Frequency CLA		SS A	CLA	SS B		
(MIIIZ)	Q.P.	Ave.	Q.P.	Ave.		
0.15 - 0.50	79	66	66-56*	56-46*		
0.50 - 5.00	73	60	56	46		
5.00 - 30.0	73	60	60	50		

* Decreasing linearly with the logarithm of the frequency

TEST RESULTS

Remark:

1. We tested all Op 5 to Op 6, recorded worst case at Op 5. Please Refer to the following page.

Remark

QP

QP

OP

OP

OP

QP

-19.77

50.00

60.00

Average

Average

Average

Average

~ Average

Average







1016.92917
1126.27819

10.36

17.52



Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1 0.16241	30.51	9.67	0.02	10.00	50.20	65.34	-15.14	QP
2 0.16251	17.91	9.67	0.02	10.00	37.60	55.33	-17.73	Average
3 0.50469	20.83	9.62	0.04	10.00	40.49	56.00	-15.51	QP
4 0.50479	8.90	9.62	0.04	10.00	28.56	46.00	-17.44	Average
5 1.48743	14.94	9.63	0.05	10.00	34.62	56.00	-21.38	QP
6 1.48843	2.30	9.63	0.05	10.00	21.98	46.00	-24.02	Average
710.84735	12.18	9.72	0.08	10.00	31.98	60.00	-28.02	QP
810.84835	1.41	9.72	0.08	10.00	21.21	50.00	-28.79	Average
917.56779	20.80	9.79	0.11	10.00	40.70	60.00	-19.30	QP
1017.56879	11.70	9.79	0.11	10.00	31.60	50.00	-18.40	Average
1126.13933	18.36	9.83	0.13	10.00	38.32	60.00	-21.68	QP
1226.14033	9.58	9.83	0.13	10.00	29.54	50.00	-20.46	Average
Remarks: 1	Meagure	d = Read	ing + L	isp Factor	+Cable I/		n Fac	

2. The emission levels that are 20dB below the official limit are not reported.





1226.27919 8.11 9.83 0.13 10.00 28.07 50.00 -21.93 Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. 2. The emission levels that are 20dB below the official limit are not reported.

0.11

0.13

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 13 of 57

10.00

10.00

30.23

FCC ID: 2ADQZTPD5X



This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 14 of 57

4.2. Occupied Bandwidth and Emission Mask Test

TEST APPLICABLE

- (a). Occupied Bandwidth: The EUT was connected to the audio signal generator and the spectrum analyzer via the main RF connector, and through an appropriate attenuator. The EUT was controlled to transmit its maximum power. Then the bandwidth of 99% power can be measured by the spectrum analyzer.
 - (c). Emission Mask D, 12.5 kHz channel bandwidth equipment: For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:
 - (1) On any frequency from the centre of the authorized bandwidth f0 to 5.625 kHz removed from f0: Zero dB.
 - (2) On any frequency removed from the centre of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least 7.27(f_d 2.88 kHz) dB.
 - (3) On any frequency removed from the centre of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least 50 + 10 log (P) dB or 70 dB, whichever is the lesser attenuation.

TEST CONFIGURATION



TEST PROCEDURE

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 The EUT was modulated by 2.5 KHz Sine wave audio signal; the level of the audio signal employed is 16 dB greater than that necessary to produce 50% of rated system deviation. Rated system deviation is 2.5 kHz (12.5 kHz channel spacing).
- 3 Set EUT as normal operation.
- 4 Set SPA Centre Frequency = fundamental frequency, RBW=300Hz, VBW= 3 KHz, span = 50 KHz.
- 5 Set SPA Max hold. Mark peak, Set 99% Occupied Bandwidth and 26dB Occupied Bandwidth.
- 6 Set SPA Centre Frequency=fundamental frequency, set =300Hz, VBW=1 KHz, span=50 KHz for 12.5 KHz channel spacing.

TEST RESULTS

Remark:

1. We tested Op 1 to Op 4, recorded worst case at Op 1 and Op 3.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 15 of 57

4.2.1 Occupied Bandwidth

Modulation	Channel	Operation	Test	Test Frequency	Occupied Bandwidth (KHz)			
Type	Separation	widue	Channel	(MIIIZ)	99%	26dB		
			Ch1	406.125	6.37	10.42		
Analog/FM 12.	12.5KHz	Op 1	Ch2	456.125	6.05	10.35		
			Ch3	469.975	6.06	10.35		
		Op 3	Ch4	406.125	7.75	9.79		
Digital/4FSK	12.5KHz		Ch5	456.125	7.26	8.85		
_			Ch6	469.975	7.23	9.34		
	Limit			11.25KHz for 12.5KHz Channel Separation				
	Test Results			PASS				

Plots of 99% and 26dB Bandwidth Measurement

Modulation	Channel	Operation	Test	Test Frequency	Occupied Bandwidth (KHz)		Limit	Results
гуре	Separation	wide	Channel	(MHz)	99%	26dB	(KIIZ)	
FM	12.5 KHz	Op 1	Ch1	406.125	6.37	10.42	11.25	PASS

Center Freq 406.125000 MHz // IFGain:Low #Atten: 28 dB Radio Std: None // IFGain:Low #Atten: 28 dB Center Freq: 406.125000 MHz // IFGain:Low #Atten: 28 dB Radio Device: BTS // dB/div Ref 40.00 dBm Log 30.0 20.0 10.0	ector
Trig: Free Run Avg Hold:>10/10 #IFGain:Low #Atten: 28 dB Radio Device: BTS 10 dB/div Ref 40.00 dBm Clear 20.0 August and august an	
10 dB/div Ref 40.00 dBm	
10 dB/div Ref 40.00 dBm	
Log 30.0 20.0 10.0 Clear	
20.0 Clear	
	Write
	erage
0.00 anonalastration of the second and all and the second and a second a	
40.0 Wax	x Hold
-50.0	
Center 406.1 MHz Span 50 kHz	
#Res BW 300 Hz #VBW 1 KHz Sweep 527.2 ms Mir	n Hold
Occupied Bandwidth	
6.367 kHz	tector
	Peak
Transmit Freq Error -11 Hz OBW Power 99.00 %	Man
x dB Bandwidth 10.42 kHz x dB -26.00 dB	

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 16 of 57

<u>SHENZHEN LCS</u>	COMPLIANCE TH	ESTING LABORA	TORY LTD.	FCC ID: 2A	DQZTPD5X	Report No.: LCS1412	2030188 <u>E</u>
Modulation Type FM	Channel Separation	Operation Mode	Test Channel	Test Frequency (MHz) 456 125	Occupied Bandwidth (K 99% 20 6.05 10	KHz)Limit (KHz)6dB11.25	Results
FM	12.5 KHz lent Spectrum Analyzer - 0cc RF 50 Q enter Freq 456.125 adB/div Ref 40.0 00 0 00 </td <td>Op 1</td> <td>Ch2</td> <td>456.125</td> <td>0.05 10 0.02:39:14 PM May 31, 2016 Radio Std: None Radio Device: BTS</td> <td>J.35 11.25 Trace/Detector Clear Write Average Max Hold Min Hold Detector Peak▶ Auto</td> <td>PASS</td>	Op 1	Ch2	456.125	0.05 10 0.02:39:14 PM May 31, 2016 Radio Std: None Radio Device: BTS	J.35 11.25 Trace/Detector Clear Write Average Max Hold Min Hold Detector Peak▶ Auto	PASS
Modulation Type	a Channel Separation	Operation Mode	Test Channel	Test Frequency (MHz)	Occupied Bandwidth (K 99% 20	KHz) Limit (KHz)	Results
FM Agi C c 10	I 12.5 KHz	Op 1 supied BW AC SOOO MHZ #IFGain:Low	Ch3	469.975 ALIGNAUT 975000 MHz Avg Hold:>10/10	6.06 10 02:46:51 PM May 31, 2016 Radio Std: None Radio Device: BTS	Trace/Detector	PASS
20 20 10 -10 -20	y					Clear Write	
-300 -400 -50 Ci	enter 470 MHz		#VBW 11	HZ	Span 50 kHz Sweep 527.2 ms	Max Hold	
	Occupied Band Transmit Freq Err x dB Bandwidth	width 6.058 kl or -63 10.35	HZ 3 Hz OBW kHz x dB	/ Power -2	99.00 % 26.00 dB	Min Hold Detector Peak► Auto <u>Man</u>	

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 17 of 57

		STING LADORA	<u>FORY LTD.</u>	FCC ID: 2AI	<u>DQZTPD5X I</u>	Report No.: LCS1412	<u>2030188E</u>
Modulation Type 4FSK	Channel Separation	Operation Mode	Test Channel	Test Frequency (MHz) 406 125	Occupied Bandwidth (K 99% 26 7.75 9	Hz)Limit (KHz)7911.25	Results
			0114	400.123	1.15 9.	11.23	IASS
	lent Spectrum Analyzer - Occ RF 50 Ω enter Freq 406.125	AC iOOO MHz #IFGain:Low	SENSE:PULSE Center Freq: 406. Trig: Free Run #Atten: 28 dB	ALIGNAUTO 125000 MHz Avg Hold:>10/10	02:37:38 PM May 31, 2016 Radio Std: None Radio Device: BTS	Trace/Detector	
10	dB/div Ref 40.0	0 dBm		 			
30 20 10	0.0 0.0		Way Arange Marine			Clear Write	
0. -10 -20	00	- AV		March		Average	
-30 -40 -50).0 0.0 ALTHANKALARAANTA).0	provident for the second se		- Anthone a		Max Hold	
C (#F	enter 406.1 MHz Res BW 300 Hz		#VBW 1 k	Hz	Span 50 kHz Sweep 527.2 ms	Min Hold	
	Transmit Freq Err	7.754 kł	IZ Hz OBW	Power !	99.00 %	Detector Peak► Auto <u>Man</u>	
MSC	3			STA	rus		
Modulation Type	Channel Separation	Operation Mode	Test Channel	Test Frequency (MHz)	Occupied Bandwidth (K	<u>(Hz)</u> Limit (KHz)	Results
4FSK	12.5 KHz	Op 3	Ch5	456.125	7.26 8.	85 11.25	PASS
Agi Xu C e	lient Spectrum Analyzer - Occ RF 50 Q enter Freq 456.125	AC 000 MHz	SENSE:PULSE Center Freq: 456. Trig: Free Run	ALIGN AUTO	00.4455 0444-01-0010		
10 Lo 20 10	29 dB/div Ref 40.0	0 dBm		Avg Hold:>10/10	Radio Device: BTS	Trace/Detector	
10 20 10 -10 -20 -20 -20 -20 -20 -20 -30	dB/div Ref 40.0 29	0 dBm	#Atten: 28 dB		Radio Device: BTS	Trace/Detector Clear Write Average	
10 Lc 22 10 -20 -30 -40 -50	dB/div Ref 40.0 99	MirGain:Low		Avg Hold:> 10/10	Radio Std: None Radio Device: BTS	Trace/Detector Clear Write Average Max Hold	
10 20 10 10 -10 -20 -30 -40 -50 C #F	dB/div Ref 40.0 99	width	#Atten: 28 dB	Avg Hold:>10/10	العادة المراجع عرب علي 2010 Radio Std: None Radio Device: BTS المحادة المح	Trace/Detector Clear Write Average Max Hold Min Hold	
10 30 20 10 -10 -20 -30 -40 -50 C f	dB/div Ref 40.0 00 00 <t< td=""><td>width 7.263 kH or -36 8.852 H</td><td>#Atten: 28 dB</td><td>Avg Hold>10/10</td><td>Id2:44:30 PM Mg 31, 2010 Radio Std: None Radio Device: BTS Image: Std: None I</td><td>Trace/Detector Clear Write Average Max Hold Min Hold Detector Peak► Auto Man</td><td></td></t<>	width 7.263 kH or -36 8.852 H	#Atten: 28 dB	Avg Hold>10/10	Id2:44:30 PM Mg 31, 2010 Radio Std: None Radio Device: BTS Image: Std: None I	Trace/Detector Clear Write Average Max Hold Min Hold Detector Peak► Auto Man	

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 18 of 57



4.2.2 Emission Mask

Modulation Type	Channel Separation	Operation Mode	Test Channel	Test Frequency (MHz)	Applicable Mask	RBW (Hz)
			Ch1	406.125	D	300
Analog/FM	12.5 KHz	Op 1	Ch2	456.125	D	300
_		-	Ch3	469.975	D	300
			Ch1	406.125	D	300
Digital/4FSK	12.5 KHz	Op 3	Ch2	456.125	D	300
		-	Ch3	469.975	D	300
	Test Results	• •		PASS		

Plots of Emission Mask Measurement

Referred as the attached plot hereinafter Note: The Black curve represents unmodulated signal. The Blue curve represents modulated signal.



This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 20 of 57



This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 21 of 57



This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 22 of 57

4.3. Transmitter Radiated Spurious Emission

TEST APPLICABLE

According to the TIA/EIA 603 test method, and according to Section 90.210, the power of each unwanted emission shall be less than Transmitted Power as specified below for transmitters designed to operate with 12.5 KHz channel bandwidth:

- 1 On any frequency removed from the centre of the authorized bandwidth f_o to 5.625 KHz removed from $f_o:$ Zero dB
- 2 On any frequency removed from the centre of the authorized bandwidth by a displacement frequency (f_d in KHz) f_o of more than 5.625 KHz but no more than 12.5 KHz: At least 7.27dB
- 3 On any frequency removed from the centre of the authorized bandwidth by a displacement frequency (f_d in KHz) f_o of more than 12.5 KHz: At least 50+10 log (P) dB or 70 dB, which ever is lesser attenuation.

For transmitters designed to transmit with 25 KHz channel separation and equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as following:

- 1 On any frequency removed from the assigned frequency by more than 50 percent, but no more than 100 percent of the authorized bandwidth: At least 25 dB.
- 2 On any frequency removed from the assigned frequency by more than 100 percent, but no more than 250 percent of the authorized bandwidth: At least 35 dB.
- 3 On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43+10Log (P) dB.

TEST CONFIGURATION



TEST PROCEDURE

- EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in six channels were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100 KHz, VBW=300 KHz for 30MHz to 1GHz, and the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. An amplifier should be connected to the Signal Source output port. And the cable should be connecting between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}) , the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

Power (EIRP) = P_{Mea} - P_{Ag} - P_{cl} - G_a

Amplifier for substituation test;

The measurement results are amending as described below:

Power (EIRP) = P_{Mea} - P_{cl} - G_a

- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.
- 8. In order to make sure test results more clearly, we set frequency range and sweep time for difference frequency range as follows table:

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
400 - 470 MHz	0.03~1	100KHz	300KHz	10
	1~3	1 MHz	3 MHz	10
	3~6	1 MHz	3 MHz	10

LIMIT

Modulation Type: FM

FCC Part 22.359, 74.462, 80.211 and 90.210 and RSS Gen, RSS 119 Issue 12:

For 12.5 kHz bandwidth:

On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz at least:

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 24 of 57

Report No.: LCS1412030188E

High: $50 + 10 \log (Pwatts) = 50 + 10 \log (4.0) = 56.02 \text{ dB}$ Low: $50 + 10 \log (Pwatts) = 50 + 10 \log (1.0) = 50.00 \text{ dB}$ Note: In general, the worst case attenuation requirement shown above was applied. Calculation: Limit (dBm) =EL-50-10log10 (TP) Notes: EL is the emission level of the Output Power expressed in dBm, In this application, the EL is 36.02 dBm for Rated High power level and 30.00 dBm for Rated Lower power level; High: Limit (dBm) =36.99-50-10log10 (4.0) = -20 dBm Low: Limit (dBm) =30.00-50-10log10 (1.0) = -20 dBm

Modulation Type: 4FSK

FCC Part 22.359, 74.462, 80.211 and 90.210 and RSS Gen, RSS 119 Issue 12 (12.5 kHz Bandwidth only): On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of

more than 12.5 kHz at least:

High: $50 + 10 \log (Pwatts) = 50 + 10 \log (4.0) = 56.02 \text{ dB}$

Low: $50 + 10 \log (Pwatts) = 50 + 10 \log (1.0) = 50.00 \text{ dB}$

Note: In general, the worst case attenuation requirement shown above was applied.

Calculation: Limit (dBm) =EL-50-10log10 (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,

In this application, the EL is 36.02 dBm for Rated High power level and 30.00 dBm for Rated Lower power level;

High: Limit (dBm) = $36.99-50-10\log_{10}(4.0) = -20 \text{ dBm}$

Low: Limit (dBm) =30.00-50-10log10 (1.0) = -20 dBm

Note:

1. In general, the worse case attenuation requirement shown above was applied.

2. The measurement frequency range from 9 KHz to 5 GHz.

3. *** means that the emission level is too low to be measured or at least 20 dB down than the limit.

4. Radiated spurious tested ERP for below 1GHz and EIRP for above 1GHz.

TEST <u>RESULTS</u>

Remark:

1. We tested Op 1 to Op 4, recorded worst case at Op 1 and Op 3.

	Modulation Type: FM										
	Operation N	Aode: Op 1			Channel Separ	ation:12.5KH	Z				
	Test Char	nel: Ch1			Test Frequency	y:406.125MHz	Z				
Frequency (MHz)	PMea (dBm)	Path Loss	Antenna Gain	Correction Peak EIRP Limit (dB) (dBm) (dBm) Polariza							
812.250	-50.88	0.87	6.42	2.15	-47.48	-20.00	Н				
1215.375	-47.42	1.02	7.35	2.15	-43.24	-20.00	Н				
2030.625	-57.39	1.10	8.26	2.15	-52.38	-20.00	Н				
•••	•••	•••	•••	•••	•••	•••	Н				
812.250	-49.81	0.87	6.42	2.15	-46.41	-20.00	V				
1215.375	-48.70	1.02	7.35	2.15	-44.52	-20.00	V				
2030.625	-57.16	1.10	8.26	2.15	-52.15	-20.00	V				
•••	•••	•••	•••	•••	•••	•••	V				

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 25 of 57

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADQZTPD5X Report No.: LCS1412030188E

Modulation Type: FM											
	Operation N	Aode: Op 1			Channel Separ	ation:12.5KH	Z				
	Test Char	nnel: Ch2			Test Frequency	: 456.125MH	Z				
Frequency	PMea	Path	Antenna	Correction	Peak EIRP	Limit	Delevization				
(MHz)	(dBm)	Loss	Gain	(dB)	(dBm)	(dBm)	r olai izatioli				
912.250	-52.43	0.92	6.80	2.15	-48.70	-20.00	Н				
1368.375	-43.34	1.06	7.89	2.15	-38.66	-20.00	Н				
2280.625	-60.42	1.12	8.12	2.15	-55.57	-20.00	Н				
•••	•••	•••	•••	•••	•••	•••	Н				
912.250	-50.91	0.92	6.80	2.15	-47.18	-20.00	V				
1368.375	-46.86	1.06	7.89	2.15	-42.18	-20.00	V				
2280.625	-58.62	1.12	8.12	2.15	-53.77	-20.00	V				
	•••		•••		•••	•••	V				

	Modulation Type: FM											
	Operation N	Mode: Op 1			Channel Separation:12.5KHz							
	Test Char	nnel: Ch3			Test Frequency	v: 469.975MH	Z					
Frequency (MHz)	PMea (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak EIRP (dBm)	Limit (dBm)	Polarization					
939.950	-53.52	0.95	6.80	2.15	-49.82	-20.00	Н					
1409.925	-44.59	1.10	7.91	2.15	-39.93	-20.00	Н					
2349.875	-59.88	1.21	8.25	2.15	-54.99	-20.00	Н					
•••	•••	•••	•••	•••	•••	•••	Н					
939.950	-53.64	0.95	6.80	2.15	-49.94	-20.00	V					
1409.925	-42.99	1.10	7.91	2.15	-38.33	-20.00	V					
2349.875	-58.45	1.21	8.25	2.15	-53.56	-20.00	V					
•••	•••	•••	•••	•••	•••	•••	V					

	Modulation Type: 4FSK											
	Operation N	Mode: Op 3			Channel Separation:12.5KHz							
	Test Char	nel: Ch4			Test Frequency	y:406.125MHz	Z					
Frequency (MHz)	PMea (dBm)	Path Loss	Antenna Gain	Correction Peak EIRP Limit (dB) (dBm) (dBm) Polariza								
812.250	-51.88	0.87	6.42	2.15	-48.48	-20.00	Н					
1215.375	-45.19	1.02	7.35	2.15	-41.01	-20.00	Н					
2030.625	-60.55	1.10	8.26	2.15	-55.54	-20.00	Н					
•••	•••	•••	•••	•••	•••	•••	Н					
812.250	-50.99	0.87	6.42	2.15	-47.59	-20.00	V					
1215.375	-43.93	1.02	7.35	2.15	-39.75	-20.00	V					
2030.625	-61.96	1.10	8.26	2.15	-56.95	-20.00	V					
•••	•••	•••	•••	•••	•••	•••	V					

	Modulation Type: 4FSK											
	Operation N	Aode: Op 3			Channel Separ	ation:12.5KH	Z					
	Test Char	nnel: Ch5			Test Frequency	v: 456.125MH	Z					
Frequency (MHz)	PMea (dBm)	Path Loss	Antenna Gain	Correction Peak EIRP Limit (dB) (dBm) (dBm) Polarizat								
912.250	-51.88	0.92	6.80	2.15	-48.15	-20.00	Н					
1368.375	-46.02	1.06	7.89	2.15	-41.34	-20.00	Н					
2280.625	-55.90	1.12	8.12	2.15	-51.05	-20.00	Н					
•••	•••	•••	•••	•••	•••	•••	Н					
912.250	-52.67	0.92	6.80	2.15	-48.94	-20.00	V					
1368.375	-43.90	1.06	7.89	2.15	-39.22	-20.00	V					
2280.625	-58.87	1.12	8.12	2.15	-54.02	-20.00	V					
•••	•••	•••	•••	•••	•••	•••	V					

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 26 of 57 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADQZTPD5X Report No.: LCS1412030188E

	Modulation Type: 4FSK											
	Operation N	Aode: Op 3			Channel Separ	ation:12.5KH	Z					
	Test Char	nel: Ch6			Test Frequency	v: 469.975MH	Z					
Frequency	PMea	Path	Antenna	Correction	Peak EIRP	Limit	Polorization					
(MHz)	(dBm)	Loss	Gain	(dB)	(dBm)	(dBm)						
939.950	-51.35	0.95	6.80	2.15	-47.65	-20.00	Н					
1409.925	-45.88	1.10	7.91	2.15	-41.22	-20.00	Н					
2349.875	-58.87	1.21	8.25	2.15	-53.98	-20.00	Н					
•••	•••	•••	•••	•••	•••	•••	Н					
939.950	-53.80	0.95	6.80	2.15	-50.10	-20.00	V					
1409.925	-44.89	1.10	7.91	2.15	-40.23	-20.00	V					
2349.875	-62.68	1.21	8.25	2.15	-57.79	-20.00	V					
•••	•••	•••	•••	•••	•••	•••	V					

FCC ID: 2ADQZTPD5X

4.4. Spurious Emission on Antenna Port

TEST APPLICABLE

The same as Section 4.3

TEST PROCEDURE

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set to 100 kHz. Sufficient scans were taken to show any out of band emission up to 10th. Harmonic for the lower and the highest frequency range. Set RBW=1KHz/VBW=3KHz in the frequency band 9KHz to 150KHz, RBW=10KHz/VBW=30 KHz in the frequency band 150KHz to 30 MHz, RBW=100 kHz/VBW=300 kHz in the frequency band 30MHz to 1GHz, and RBW=1MHz/VBW=3MHz from the 1GHz to 10th Harmonic.

The audio input was set to 0 to get the unmodulated carrier, the resulting picture is print out for each channel separation.

TEST CONFIGURATION



LIMIT

Modulation Type: FM

FCC Part 22.359, 74.462, 80.211 and 90.210 and RSS Gen, RSS 119 Issue 12:

For 12.5 kHz bandwidth:

On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz at least:

High: $50 + 10 \log (Pwatts) = 50 + 10 \log (4.0) = 56.02 \text{ dB}$

Low: $50 + 10 \log (Pwatts) = 50 + 10 \log (1.0) = 50.00 \text{ dB}$

Note: In general, the worst case attenuation requirement shown above was applied.

Calculation: Limit (dBm) =EL-50-10log10 (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,

In this application, the EL is 36.02 dBm for Rated High power level and 30.00 dBm for Rated Lower power level; High: Limit (dBm) = $36.99-50-10\log_{10} (4.0) = -20 \text{ dBm}$

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 28 of 57

FCC ID: 2ADQZTPD5X

Low: Limit (dBm) =30.00-50-10log10 (1.0) = -20 dBm

Modulation Type: 4FSK

FCC Part 22.359, 74.462, 80.211 and 90.210 and RSS Gen, RSS 119 Issue 12 (12.5 kHz Bandwidth only):

On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz at least:

High: $50 + 10 \log (Pwatts) = 50 + 10 \log (4.0) = 56.02 \text{ dB}$

Low: $50 + 10 \log (Pwatts) = 50 + 10 \log (1.0) = 50.00 \text{ dB}$

Note: In general, the worst case attenuation requirement shown above was applied.

Calculation: Limit (dBm) =EL-50-10log10 (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,

In this application, the EL is 36.02 dBm for Rated High power level and 30.00 dBm for Rated Lower power level; High: Limit (dBm) = $36.99-50-10\log_{10}(4.0) = -20 \text{ dBm}$

Low: Limit (dBm) =30.00-50-10log10 (1.0) = -20 dBm

Note:

1. In general, the worse case attenuation requirement shown above was applied.

2. The measurement frequency range from 9 KHz to 6GHz.

TEST RESULTS

Operation	Test	Test	Maximum Spurious Emissi	Conducted ons Below 1GHz	Maximum Co Emissions	nducted Spurious S Above 1GHz		
Mode	Channel	(MHz)	Frequency (MHz)	Data (dBm)	Frequency (MHz)	Data (dBm)		
	Ch1	406.125	811.82	-36.31	1220.00	-33.27		
Op 1	Ch2	456.125	912.70	-34.66	1368.00	-26.99		
	Ch3	469.975	939.86	-34.94	1412.00	-26.29		
	Ch4	406.125	811.82	-35.75	1220.00	-34.35		
Op 3	Ch5	456.125	912.70	-35.05	1368.00	-25.97		
	Ch6	469.975	939.86	-34.64	1412.00	-26.28		
	Limit		-20dBm for 12.5KHz Channel Separation					
Test Results			PASS					

Plots of Spurious Emission on Antenna Port Measurement

 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.
 FCC ID: 2ADQZTPD5X
 Report No.: LCS1412030188E

		Test	Maximum Condu	cted Spurious	Maximum Co	nducted Spurious	
Operation	Operation Test Frequency Mode		Emissions Bel	ow 1GHz	Emissions	Limit	
Mode			Frequency	Data	Frequency	Data	(dBm)
		(MITZ)	(MHz)	(dBm)	(MHz)	(dBm)	
Op 1	Ch1	406.125	811.82	-36.31	1220.00	-33.27	-20.00

	7 PM May 31, 2016	03:3	ALIGN AUTO		EPULSE	SENSE		2 ADC	RF 50	
Peak Search	RACE 1 2 3 4 5 6 TYPE MMWWWW	r	e: Log-Pwr : 80/100	Avg Typ Avg Hold	Run	Trig: Free	PNO: Wide 😱	kHz	.141000	rker 1 9
Next Pea	9.141 kHz .880 dBm	Mkr -5			18	Atten: 6 d	FGain:Low	⊓ 0 dB dBm	Ref Offset 2 Ref 10.00	dB/div
Next Pk Rigi	+									
Next Pk Le	-20.00 dBm									o
Marker Del										o
Mkr→C									what a	0
Mkr→RefL	man frank	U. Mur	WmmM	hybath wardys	www.www.	᠕᠕ᡁᠰᡎᡘᡅᢦᠬ	and the second	Wharman here		0
Mor 1 of	150.00 kHz	Sto							(H7	0 ort 9 00 l

Agilent Spectrum Analyzer - Swept SA							
Marker 1 150.000000 kH	Z	SENSE:PULSE	Avg Type:	IGN AUTO	03:38:16 PM TRAC	4 May 31, 2016 E 1 2 3 4 5 6	Peak Search
Ref Offset 20 dB 10 dB/div Ref 10.00 dBm	PNO: Fast 😱 IFGain:Low	Atten: 6 dB	Avginoia: 1	8/100	Mkr1 - -27.4	150 kHz 07 dBm	Next Peak
0.00							Next Pk Right
-10.0						-20.00 dBm	Next Pk Left
-30.0							Marker Delta
-50.0					÷		Mkr→CF
-70.0	แร้งโกรเลิส (ไม่ได้เลยู่ในสูงเลย (เลย) สีสุด	Helenney Many - H	white the state of	ali materia	n.e	Jundypensitive	Mkr→RefLvl
Start 150 kHz #Res BW 10 kHz	#VBW	30 kHz	S	weep 2	Stop 3 85.3 ms (0.00 MHz 1001 pts)	More 1 of 2
MSG				STATUS	🔔 AC cou	pled: Accy ur	spec'd < 10MHz

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 30 of 57

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Agilent Spectr	um Analyzer - Swej	pt SA								
Marker 1	RF 50 Ω 811.820000			SENSE	E:PULSE	Avg Type	ALIGNAUTO : Log-Pwr	03:42:51 Pl TRAC	M May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref Offset 20 d Ref 40.00 di	PN IFG: BM	0: Fast 😱 ain:Low	Trig: Free Atten: 30	e Run dB	Avg Hold:	>100/100 N	™ ⊳ 1kr1 811. -36.3	82 MHz 08 dBm	Next Peak
30.0										Next Pk Right
20.0				·						Next Pk Left
0.00										Marker Delta
-20.0									-20.00 dBm	Mkr→CF
-40.0	-4	ruft over plank have	appring to the second second	k-fliggetypysiki (hvlj	hay and a work of	Hallondakahurikan	ulter fort, vers	1 Percelificant Marcal Margar		Mkr→RefLv
-50.0 Start 30.0 #Res BW	MHz 100 kHz		#VBW	300 kHz			Sweep	Stop 1.0	0000 GHz	More 1 of 2
MSG							STAT	us		

Agilent Spectrum Analyzer - Swept SA				
X RF 50 Ω AC	SENSE:PULSE	ALIGNAUTO	03:48:34 PM May 31, 2016	Peak Search
Marker 1 1.22000000000 GHz	Trig: Free Run	Avg Type: Log-Pwr AvalHold: 81/100	TYPE MMWWWW	
Prio: Fast IFGain:Low 10 dB/div Ref 30.00 dBm	Atten: 20 dB	ľ	/kr1 1.220 GHz -33.274 dBm	NextPeak
20.0				Next Pk Right
0.00				Next Pk Left
-10.0			-20.00 dBm	Marker Deita
-30.0 - 1	Hout have been been been been been been been be	tuak root		Mkr→CF
-50.0		www.pe-lovelet-thefuelet-the	Hardineter Transford American and and a	Mkr→RefLv
-60.0 Start 1.000 GHz			Stop 5.000 GHz	More 1 of 2
#Res BW 1.0 MHz #VBW	3.0 MHz	Sweep 6	.667 ms (1001 pts)	
MSG		STATUS	3	

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 31 of 57
 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.
 FCC ID: 2ADQZTPD5X
 Report No.: LCS1412030188E

Operation Test		Test	Maximum Condu Emissions Bel	cted Spurious low 1GHz	Maximum Co Emissions	Limit	
Mode	Channel	Frequency	Frequency	Data	Frequency	Data	(dBm)
		(MHZ)	(MHz)	(dBm)	(MHz)	(dBm)	
Op 1	Ch2	456.125	912.70	-34.66	1368.00	-26.99	-20.00

	May 21, 2016	02/22/25 0			nucel	CENICE		A DC	PE 50.0	
Peak Search	E 1 2 3 4 5 6	TRAC	: Log-Pwr	Avg Type		35435		Hz	705000	ker 1 S
Next Peal	705 kHz 17 dBm	Mkr1 9.3 -50.9	36/100 	Avg Hold:	Run B	Trig: Free Atten: 6 c	0: Wide 😱 Gain:Low	PN IFG IBM	tef Offset 20 Ref 10.00	B/div
Next Pk Righ										
Next Pk Lef	-20.00 dBm									
Marker Delta										
Mkr→Ci									ետ» Ո	1 WW WW
Mkr→RefLv	MAN MA	Mr. Mr. Mr.	VUMMIN.	Whyterlynyryn	<mark>ահավուշ</mark> չվե	1. ml m	MAnny	YWMad Ny	on h fra Mr Jw	
More 1 of 2	0.00 kHz	Stop 15							47	1 9.00 1
	1001 pts)	34.8 ms (Sweep 1			3.0 kHz	#VBW		0 kHz	s BW 1

Agilent Spect	rum Analyzer - Swe	pt SA								
Marker 1	RF 50 Ω	AC kHz				Avg Type	ALIGN AUTO : Log-Pwr 8/100	03:37:38 Pf TRAC	May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref Offset 20 Ref 10.00 d	dB Bm	NO: Fast 🕞 Gain:Low	Atten: 6	dB	Avgirioid.	0/100	Mkr1 ⁻ -27.1	150 kHz 48 dBm	Next Peak
0.00										Next Pk Right
-10.0 -20.0 1									-20.00 dBm	Next Pk Left
-30.0										Marker Delta
-50.0										Mkr→CF
-70.0	Whather washing	Munualation		ป้องเมืองเป็น	NA .C. L. L. MININ	wheelinghal	ulan Andul	alles it, tith a st	mikelijssieren	Mkr→RefLvl
Start 150 #Res BW	kHz 10 kHz		#VBW	30 kHz	· · · · · · · · · · · · · · · ·	,	Sweep 2	Stop 3 85.3 ms (0.00 MHz 1001 pts)	More 1 of 2
MSG							STATUS	🔥 AC cou	pled: Accy ur	nspec'd < 10MHz

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 32 of 57

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Agilent Spe	ctrum Analy	zer - Swep	ot SA								
Marker	RF 1 912.7	50 Q	AC 000 MH	Z			Avg Type Avg/Hold:	ALIGN AUTC : Log-Pwr 58/100	03:43:20 PM TRAC	1 May 31, 2016 E 1 2 3 4 5 6 E M MIANANA	Peak Search
10 dB/div	Ref 0 Ref 4	ffset 20 d 10.00 d	IB Bm	NU: Fast C	Atten: 30	dB		N	₀₀ /lkr1 912. -34.60	70 MHz 63 dBm	NextPeak
30.0											Next Pk Right
20.0											Next Pk Left
-10.0											Marker Delta
-20.0										-20.00 dBm	Mkr→CF
-30.0 -40.0	uply we all the states	alaliyhadronda	phoneterity	Vites to a visit	unter the second	raturali	Juliaridadi cidada a	Wardertuillare	an shipt on the ships	•1 uHismiswin/lei(l	Mkr→RefLvi
-50.0 Start 30).0 MHz	47		#\/B\M	300 684			Sween	Stop 1.0	0000 GHz	More 1 of 2
MSG		12		#1000	300 KHZ			SWEED	92.7 J 1113 (TUS	ioo i pis)	

Agilent Spect	rum Analyzer - Swe	pt SA								
🕅 Marker 1	RF 50 Ω	AC 00000 GI	Hz	SENSE		Avg Type	ALIGN AUTO	03:48:11 P r TRAC	M May 31, 2016	Peak Search
10 dB/div	Ref Offset 20 Ref 30.00 d	dB IBm	NO: Fast 🕞 Gain:Low	Atten: 20	dB	Avgirioid.	01/100	Mkr1 1.3 -26.9	68 GHz 86 dBm	Next Peak
20.0										Next Pk Right
10.0 0.00										Next Pk Left
-10.0									-20.00 dBm	Marker Delta
-30.0	Authorna A anthonna	outron Markelling.	http://www.http://http://http://http://http://http://http://http://http://http://http://http://http://http://ht		hypelwye and a second	uun et	distant to 1	s out tilles		Mkr→CF
-50.0							al an an an Andrian	(u-1)-1)/////////////////////////////////	ann thu	Mkr→RefLvl
-60.0 Start 1.00	0 GHz 1 0 MHz		#\/B\M	3.0 MHz			Sween	Stop 5	.000 GHz	More 1 of 2
MSG	1.0 MITZ		#1011	5.0 10172			STAT		1001 pts)	

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 33 of 57 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Operation Test Mode Channe	Test	Test	Test	Test	Test	Test	Test	Maximum Condu Emissions Bel	cted Spurious low 1GHz	Maximum Co Emissions	nducted Spurious Above1GHz	Limit
	Channel	$(M \square_7)$	Frequency	Data	Frequency	Data	(dBm)					
	(MHZ)		(MHz)	(dBm)	(MHz)	(dBm)						
Op 1	Ch3	469.975	939.86	-34.94	1412.00	-26.29	-20.00					

Agilent Spectru	ım Analyzer - Swe	pt SA								
Marker 1	RF 50 Ω	<u>kHz</u>				Avg Type	ALIGN AUTO	03:34:02 PM TRAC	4 May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref Offset 20 Ref 10.00 d	dB IBm	IO: Wide 🦕 Gain:Low	Atten: 6	B	Avginoid.	Δ.	/lkr1 11.8 -53.1	B20 kHz 39 dBm	Next Peak
0.00										Next Pk Right
-10.0									-20.00 dBm	Next Pk Left
-30.0										Marker Delta
-50.0 -50.0	han a an									Mkr→CF
-70.0	r Www.	whater	WAUNT	har an an fight	ALAMANA	withurn	mr. m	Mmunally	m why re	Mkr→RefLvl
Start 9.00 #Res BW	kHz 1.0 kHz		#VBW	3.0 kHz			Sweep '	Stop 15 134.8 ms (i0.00 kHz 1001 pts)	More 1 of 2
MSG							STATU	s 🦺 DC Cou	upled	

Off RF 50 Q AC SENSE:PULSE ALLONAUTO 03:37:19 FM May 31, 2016 Peak Sear Marker 1 150.000000 kHz PN0: Fast IFGain:Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr Avg Hold: 94/100 Trace [12:3:45.6] Peak Sear 0 dB/div Ref Offset 20 dB Mkr1 150 kHz -26.084 dBm Next Pk 0.00
Ph0: Fast Ing. Free Kun Avgirloid. Si/too Mkr1 150 KHz Next I 10 dB/div Ref Offset 20 dB Mkr1 150 kHz -26.084 dBm -26.084 dBm -26.084 dBm -20.00 dBm <td< th=""></td<>
10.0
100
-30.0 Marker
-50.0
60.0
-70.0 Mr. Mary Mary Mary Mary Mary Mary Mary Mary

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 34 of 57

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Agilent Spec	ctrum Analy	yzer - Swe	pt SA								
Marker	RF 1 939.8	50 Ω 360000	ac 0000 M	Hz PNO: Fast 🔾	SEN	se:PULSE	Avg Type Avg Hold:	ALIGN AUTO : Log-Pwi 71/100	03:43:43 PM r TRAC TYP	1 May 31, 2016 E 1 2 3 4 5 6 E MMWWWW	Peak Search
10 dB/div	Ref 0 Ref 4	ffset 20 10.00 d	dB Bm	IFGain:Low	Atten: \$	0 dB		N	/lkr1 939. -34.94	86 MHz 40 dBm	Next Peak
30.0											Next Pk Right
20.0											Next Pk Left
0.00											Marker Delta
-20.0										-20.00 dBm	Mkr→CF
-30.0	nlinvallation	ny local vicibility	-ty-stanson	(ระโา _น)(โอมีปูน) ใช้หา ¹ การ	Mildlife Way	han an a	1. open gefreder over	py-yallik with	whownowland	1-	Mkr→RefLvl
-50.0	.0 MHz			#\/D\\					Stop 1.0	0000 GHz	More 1 of 2
#Res BV	W 100 KI	n Z		#vBW	300 KH	2		sweep	'92.7 3 MS (' ™	1001 pts)	

Agilent Spectr	um Analyzer - Swep	ot SA								
Marker 1	RF 50 Ω	AC 0000 GH	z	SENSE	E:PULSE	Avg Type	ALIGN AUTO	03:47:50 Pl r TRA(M May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref Offset 20 c Ref 30.00 di	PN IFG IB Bm	0: Fast 😱 ain:Low	7 Trig: Free Atten: 20	dB	Avg Hold:	>100/100	Mkr1 1.4 -26.2	12 GHz 98 dBm	NextPeak
20.0										Next Pk Right
0.00				s						Next Pk Left
-10.0	1								-20.00 dBm	Marker Delta
-30.0	out the dealer of the strengther	_{Al} ley Jacobsee Astronomy	unterface of the second	Martin Security	and white from	Myrodywidd Mar 1 dan 1 dan	- Martin Lin	J to be set that with a	antur at a state	Mkr→CF
-50.0								Vale rat.		Mkr→RefLvl
Start 1.00 #Res BW	0 GHz 1.0 MHz		#VBW	3.0 MHz			Sweep	Stop 5 6.667 ms (.000 GHz 1001 pts)	More 1 of 2
MSG							STAT	rus		

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 35 of 57 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Operation	Operation Test	Test	Maximum Condu Emissions Bel	cted Spurious low 1GHz	Maximum Co Emissions	Limit	
Mode Channel	(MH ₇)	Frequency	Data	Frequency	Data	(dBm)	
		(IVIIIZ)	(MHz)	(dBm)	(MHz)	(dBm)	
Op 3	Ch4	406.125	811.82	-35.75	1220.00	-34.35	-20.00

Agilent Spect	rum Analyzer - Swe	ept SA								
Marker 1	RF 50 Ω	<u>kHz</u>		SENSE		Avg Type	LIGNAUTO	03:31:17 PM TRAC	May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref Offset 20 Ref 10.00 (dB iBm	lO: Wide 😱 Gain:Low	Atten: 6 d	1B	Avginoid.	N	lkr1 11.1 -51.7	115 kHz 60 dBm	Next Peak
0.00										Next Pk Right
-10.0									-20,00 dBm	Next Pk Left
-30.0										Marker Delta
-50.0 +1 +1 +1 -60.0	Man Mart									Mkr→CF
-70.0	* ባ/ መለሳሉን	Mongal Production	⁹⁹ le North All Provided and the second sec	ul man	ᠳᡃᡃᠬᠧᢧᠬᢦᢦᡟᠧᡁᡟ	ᡊ ^{ᢘᡘ} ᢦᠬ᠊ᡃᠬᠰᢧ᠕ᡃ	ᠰᡙᢧᠰᠰᠬᠬ᠕᠇ᠬ	Munn	ally why y about	Mkr→RefLvi
Start 9.00 #Res BW) kHz 1.0 kHz		#VBW	3.0 kHz			Sweep 1	Stop 15 34.8 ms (i0.00 kHz 1001 pts)	More 1 of 2
MSG							STATUS	L DC Cou	pled	

Agilent Spectrur	m Analyzer - Swe	pt SA								
Marker 1 1	RF 50 Ω	AC KHz				Avg Type	ALIGN AUTO	03:38:36 PM TRAC	4 May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref Offset 20 Ref 10.00 d	P IF BM	NO: Fast 🖵 Gain:Low	Atten: 6	dB	Avginoid.	12/100	Mkr1 ′ -27.0	150 kHz 39 dBm	Next Peak
0.00										Next Pk Right
-10.0 -20.0 1									-20.00 dBm	Next Pk Left
-30.0										Marker Delta
-50.0										Mkr→CF
-70.0	Indun-male for the state of the	Aller Aller	ulay philadilana	Allinte Matthe	4	il-u.t.k.Phil.sola	with all and the set	Maria Jacker and A Para	kyllal II., ka siotik	Mkr→RefLvi
Start 150 k	Hz							Stop 3	0.00 MHz	More 1 of 2
MSG			#VBW	JU KHZ			sweep z	AC cou	pled: Accy ur	nspec'd < 10MHz

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 36 of 57

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Agilent	Spectru	im Analy	yzer - Swe	pt SA								
100 Mark	(er 1	RF 811 8	50 Ω 320000	AC 0000	-17	SENS	E:PULSE	Avg Type	ALIGNAUTO	03:41:05 PI TRAC	May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB	J/div	Ref 0 Ref 4	ffset 20 40.00 d	dB IBm	PNO: Fast G FGain:Low	⊖ Trig: Free Atten: 30	e Run dB	Avg Hold	>100/100 M	™ ۵ الkr1 811. -35.7	et ^{P P N N N N} 82 MHz 45 dBm	NextPeak
30.0 -												Next Pk Right
20.0 - 10.0 -												Next Pk Left
0.00 -												Marker Delta
-20.0 -											-20.00 dBm	Mkr→CF
-30.0 -	~{}%#00_~¶%+	lesquella bi	h she and a start of the start of	WW.W.	in publication and the public of the public	มี _{ระคา} รูโ _{ละ} งาปัตรุงไปกร	พิเทฟรรรรการ	Milly Miely and	alle frankriger	1	หล่งประการปรา	Mkr→RefLvl
-50.0 Start #Res	30.0 BW 1	MHz 100 ki	Hz		#VBV	V 300 kHz			Sweep	Stop 1.0 92.73 ms (0000 GHz 1001 pts)	More 1 of 2
MSG									STATU	IS		

Agilent Spect	rum Analyzer - Swe	pt SA								
Marker 1	RF 50 Ω	AC 00000 GH	Hz	SENSE		Avg Type	ALIGN AUTO	03:49:01 P r TRA	M May 31, 2016	Peak Search
10 dB/div	Ref Offset 20 Ref 30.00 d	dB IBm	NO: Fast G	Atten: 20	dB	Avginoid.	367100	Mkr1 1.2 -34.3	220 GHz 45 dBm	Next Peak
20.0										Next Pk Right
10.0										Next Pk Left
-10.0									-20.00 dBm	Marker Delta
-30.0	1	. Loudday		Land and the state	mulation	willin .	4. 1		Linkelwak	Mkr→CF
-50.0	Hardward In Linds for service					· · Maraha	wood and have	adronally begin in order of the	an-off cases	Mkr→RefLvl
Start 1.00	10 GHz 1 0 MHz		#VBW	3.0 MHz			Sween	Stop 5	.000 GHz	More 1 of 2
MSG							STAT	rus		

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 37 of 57 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Operation	Test Channel	Test	Maximum Condu Emissions Bel	cted Spurious ow 1GHz	Maximum Co Emissions	Limit	
Mode		(MU ₂)	Frequency	Data	Frequency	Data	(dBm)
		(MHZ)	(MHz)	(dBm)	(MHz)	(dBm)	
Op 3	Ch5	456.125	912.70	-35.05	1368.00	-25.97	-20.00

Agilent Spec	trum Analyzer - Sw	rept SA								
Marker	RF 50 Ω	kHz				Avg Type	ALIGNAUTO : Log-Pwr	03:32:07 Pf TRAC	May 31, 2016	Peak Search
10 dB/div	Ref Offset 20 Ref 10.00	PN IF(dB dBm	IO: Wide 🦕 Gain:Low	Atten: 6	dB	Avginoia.	28/100	Mkr1 9.0 -53.2	000 kHz 32 dBm	Next Peak
0.00										Next Pk Right
-10.0									-20.00 dBm	Next Pk Left
-30.0										Marker Delta
-50.0 <mark>1</mark> —	Manna to									Mkr→CF
-70.0		MM ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	While Malling	M.M.A.	ŊŊ ĦĦwŊŗĸſĬŊŴ	hourshary	Mannha	ann a lan	www.www.w	Mkr→RefLvl
Start 9.0 #Res BV	0 kHz V 1.0 kHz		#VBW	3.0 kHz			Sweep 1	Stop 15 34.8 ms (i0.00 kHz 1001 pts)	More 1 of 2
MSG							STATU	s 🚹 DC Cou	upled	

Agilent Spect	um Analyzer - Swep	ot SA								
Marker 1	RF 50 Ω 150.000000	AC kHz					ALIGN AUTO	03:38:54 PM TRAC	May 31, 2016	Peak Search
10 dB/div	Ref Offset 20 d Ref 10.00 d	PI IFC B B	NO: Fast 🕞 Gain:Low	Atten: 6 o	B	Avginoid.	10/100	Mkr1 ⁻ -28.2	150 kHz 89 dBm	Next Peak
0.00										Next Pk Right
-10.0									-20.00 dBm	Next Pk Left
-30.0				2 2						Marker Deita
-50.0										Mkr→CF
-70.0	and the state of the second	WHANKY MANA	manderale	MARIAN	Laikhurida.	aluti anultinita	- - - - - - - - - - - - - - - - - - -	Howward	Hand Maril	Mkr→RefLvl
Start 150 #Res BW	kHz 10 kHz		#VBW	30 kHz			Sweep 2	Stop 3 85.3 ms (0.00 MHz 1001 pts)	More 1 of 2
MSG							STATUS	LAC cou	pled: Accy u	nspec'd < 10MHz

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 38 of 57

FCC ID: 2ADQZTPD5X

Report No.: LCS1412030188E

Agilent	Spectrum Analyzer - Sv	vept SA								
Mark	RF 50	2 AC 00000 MH: PI	Z NO: Fast 😱	SENSE	Run	Avg Type Avg Hold:	LIGN AUTO Log-Pwr 100/100	03:41:42 PM TRAC TYF	4 May 31, 2016 E 1 2 3 4 5 6 E MMWWWW	Peak Search
10 dB	Ref Offset 2 /div Ref 40.00	1F0 0 dB dBm	Gain:Low	Atten: 30	dB		N	1kr1 912. -35.0	70 MHz 50 dBm	Next Peak
30.0 -										Next Pk Right
20.0 -										Next Pk Left
0.00 -										Marker Delta
-10.0 -									-20.00 dBm	Mkr→CF
-30.0 - -40.0 -	~	14 towned to be seen	n for the second state of	yalla angohoji	to a later land	hallow and a stand and and a stand and a	www.	and fall for a fragment	1 n	Mkr→RefLvl
-50.0 -										More
start #Res	BW 100 kHz		#VBW	300 kHz		5	Sweep	Stop 1.0 92.73 ms (1000 GHz 1001 pts)	
MSG							STAT	US		

Agilent Spectr	um Analyzer - Swept !	SA							
Marker 1	RF 50 Ω A 1.368000000	000 GHz	SENSE	::PULSE	Avg Type	ALIGN AUTO	03:49:22 Pl	M May 31, 2016 E 1 2 3 4 5 6	Peak Search
10 dB/div	Ref Offset 20 dB Ref 30.00 dB	PNO: Fast 😱 IFGain:Low M	Atten: 20 dB			Mkr1 1.3 -25.9	68 GHz 70 dBm	NextPeak	
20.0									Next Pk Right
0.00									Next Pk Left
-10.0	1							-20.00 dBm	Marker Delta
-30.0	Ligh Arring marsh 41/14 road	Light and a start and a sta	humbumbarran	L.f. Normany Marson		-		an and the second second	Mkr→CF
-50.0						- 1	Codylan Ine a		Mkr→RefLvl
Start 1.00 #Res BW	0 GHz 1.0 MHz	#VBW	3.0 MHz			Sweep	Stop 5 6.667 ms (.000 GHz 1001 pts)	More 1 of 2
MSG						STAT	US		

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 39 of 57
 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.
 FCC ID: 2ADQZTPD5X
 Report No.: LCS1412030188E

	Test	Test	Maximum Condu	cted Spurious	Maximum Co	nducted Spurious	
Operation		Erecuency	Emissions Bel	ow 1GHz	Emissions	Limit	
Mode	Channel	(MHz)	Frequency	Data	Frequency	Data	(dBm)
		(IVIHZ)	(MHz)	(dBm)	(MHz)	(dBm)	
Op 3	Ch6	469.975	939.86	-34.64	1412.00	-26.28	-20.00

Jabo Peak Search NNNN NextPeak JBm Image: Search	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P N N N N	pe: Log-Pwr	Ava	POLSE	SEIVOR		M DC	KE JU 34			
kHz NextPeak	DET P P N N N N	H- 31/100	Avg Typ				larker 1 9.423000 kHz				
	Mkr1 9.423 kHz -51.094 dBm		Avgļi	B Run B	Trig: Free Atten: 6 d	IO: Wide 😱 Sain:Low	PN IFC dB IBm	Ref Offset 20 Ref 10.00	dB/div		
Next Pk Righ									0		
D.00 dBm	-20.00 dBm								.o		
Marker Delt									.o .o		
Mkr→Cl									0 		
 Mkr→RefLv	Marchallon Manus Mar	www.www.	የጉጥ ይ	W. Contration	North and	KULL CONTRACTOR	Mr. M. Mary Mark	"""UPV WPVWPV	.0		
More 1 of:	Stop 150 00 kHz							U 7	0 art 9 00 1		
l pts)	34.8 ms (1001 pts)	Sweep 1			3.0 kHz	#VBW		0 kHz	es BW 1		

Agilent Spectr	um Analyzer - Swept SA								
Marker 1	RF 50 Ω AC 150.000000 kH	Z	SENSE	::PULSE	Avg Type	ALIGN AUTO : Log-Pwr	03:39:55 Pf TRAC	May 31, 2016	Peak Search
10 dB/div	Ref Offset 20 dB Ref 10.00 dBm	PNO: Fast 🖵 IFGain:Low	្រី Trig: Free Atten: 6 ៤	Run IB	Avg Hold:	15/100	Mkr1 ⁻ -27.4	150 kHz 66 dBm	Next Peak
0.00									Next Pk Right
-10.0								-20.00 dBm	Next Pk Left
-30.0									Marker Delta
-50.0									Mkr→CF
-70.0	allan man hr all and gally all wright	eserin Lalle Uneerstanding	MANNALLAN	Login Appropriate	liel w. Martin lipsile	- Mallandaru	all phatestapes	wilding the second	Mkr→RefLvl
Start 150 #Res BW	kHz 10 kHz	#VBW	30 kHz			Sweep	Stop 3 285.3 ms (0.00 MHz 1001 pts)	More 1 of 2
MSG						STATU	us 🦺 AC cou	pled: Accy ur	nspec'd < 10MHz

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 40 of 57