

FCC PART 90

TEST REPORT

For

Hytera Communications Co.,Ltd.

HYT Tower, Hi-Tech Industrial Park North, Nanshan District, Shenzhen, China

FCC ID: YAMPT790EXF5

Report Type: **Product Type:** Original Report Ex Digital Radio **Test Engineer:** Dean Liu Report Number: RDG150813005-00A **Report Date:** 2015-09-06 Sula Huang RF Leader **Reviewed By: Test Laboratory:** Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongeun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan). This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	
TEST FACILITY	4
SYSTEM TEST CONFIGURATION	5
DESCRIPTION OF TEST CONFIGURATION	5
SUPPORT EQUIPMENT LIST AND DETAILS	
External I/O Cable	
TEST CONFIGURATION BLOCK DIAGRAM	5
BLOCK DIAGRAM OF TEST SETUP	5
SUMMARY OF TEST RESULTS	6
FCC §1.1310 & §2.1093 - RF EXPOSURE	7
APPLICABLE STANDARD	
TEST RESULT	
FCC §2.1046 & §90.205- RF OUTPUT POWER	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
FCC §2.1046, §90.210& §90.221- ADJACENT CHANNEL POWER	
APPLICABLE STANDARD	
TEST PROCEDURE	10
TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	10
FCC §2.1049 & §90.209, §90.210§90.691 – OCCUPIED BANDWIDTH & EMISSION MASK	25
APPLICABLE STANDARD	25
TEST PROCEDURE	26
TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	26
FCC §2.1051 & §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS	40
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST FREEDORD TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §2.1053 & §90.210 - RADIATED SPURIOUS EMISSIONS	53
Applicable Standard	
TEST PROCEDURE	
TEST FREEDORD TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §2.1055 & §90.213- FREQUENCY STABILITY	59
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	59

Report No.: RDG150813005-00A

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Hytera Communications Co.,Ltd.*'s product, model number:*PT790Ex F5 (FCC ID:* YAMPT790EXF5) or the "EUT" in this report was a *Ex Digital Radio*, which with antenna was measured approximately:20.9cm (L)×6.5cm (W)×5.1cm (H), which without antenna was measured approximately:15.5cm (L)×6.5cm (W)×5.1cm (H), rated with input voltage: DC 7.4V.

Report No.: RDG150813005-00A

Equipment Specification

Operating Frequency Band	809-824MHz&854-869MHz
Modulation Mode	/4-DQPSK
Channel Separation	25 kHz
Rated Output Power	24.77dBm/28.5dBm

Adapter Information: Hytera Model:HKA01212010-2F Input power:100-240V, 0.5A Output power: 12.0V, 1.0A

Objective

This test report is prepared on behalf of *Hytera Communications Co.,Ltd.* in accordance with Part 2, and Part 90 of the Federal Communication Commission rules.

Related Submittal(s)/Grant(s)

N/A

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, Sub-part J as well as the following individual parts:

Part 90 - Private Land Mobile Radio Service

Applicable Standards: TIA 603-D and ANSI 63.4-2009.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

FCC Part 90 Page 3 of 60

^{*}All measurement and test data in this report was gathered from production sample serial number: 150813005 (assigned by BACL, Dongguan). The EUT supplied by the applicant was received on 2015-08-14.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Report No.: RDG150813005-00A

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part 90 Page 4 of 60

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode which has been done in the factory.

Support Equipment List and Details

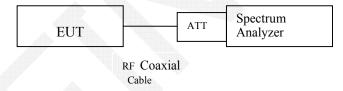
Manufacturer	Description	Model	Serial Number
Weinschel Corp	Terminal Load	100 W	1440-3
Minicircuits	10 dB Attenuator	UNAT-10+	D15542
Wilson	6 dB Attenuator	6dB	859936

Report No.: RDG150813005-00A

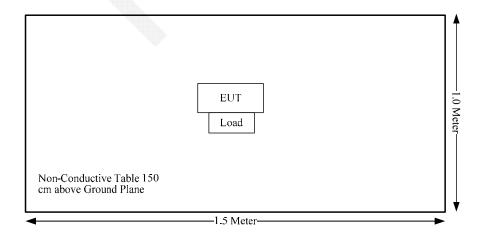
External I/O Cable

Cable Description	Length (m)	From/Port	То
RF Coaxial Cable	0.2	EUT/RF Port	Attenuator

Test Configuration Block Diagram



Block Diagram of Test Setup



FCC Part 90 Page 5 of 60

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§1.1310; §2.1093	RF Exposure	Compliance
§2.1046; §90.205	RF Output Power	Compliance
§90.210; §90.221	Adjacent Channel Power	Compliance
§2.1047;§90.207	Modulation Characteristic	Not Applicable*
\$2.1049; \$90.209; \$90.210; \$90.691	Occupied Bandwidth	Compliance
§2.1051; §90.210	Spurious Emission at Antenna Terminal	Compliance
§2.1053; §90.210	Spurious Radiated Emissions	Compliance
§2.1055; §90.213	Frequency Stability	Compliance
§90.214	Transient Frequency Behavior	Not Applicable

Report No.: RDG150813005-00A

Not applicable*: Modulation Characteristic test item is not required for digital device

FCC Part 90 Page 6 of 60

FCC §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RDG150813005-20A

Report No.: RDG150813005-00A

FCC Part 90 Page 7 of 60

FCC §2.1046 & §90.205- RF OUTPUT POWER

Applicable Standard

FCC §2.1046 and §90.205

Test Procedure

Conducted RF Output Power:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Report No.: RDG150813005-00A

Spectrum Analyzer Setting:

RBW	VBW
100 kHz	300 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.2	
Relative Humidity:	56 %	
ATM Pressure:	100 kPa	

The testing was performed by Dean Liu on 2015-08-27.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following table.

FCC Part 90 Page 8 of 60

T4	Channel	Modulation	\mathbf{f}_{c}	Conducted power
Test mode	Separation	type	MHz	dBm
			809.0125	28.59
			815.5	28.57
DMO	25kHz		823.9875	28.59
	ZSKIIZ		854.0125	28.57
		/A DODGIV	860.5	28.53
			868.9875	28.56
		/4-DQPSK	809.0125	28.47
			815.5	28.49
TMO	251-11-		823.9875	28.59
TMO 25kHz	25KHZ		854.0125	28.55
			860.5	28.44
		868.9875	28.56	

Report No.: RDG150813005-00A

Note: The rated high power is 28.5 dBm

Low power level:

T	Channel	Modulation	f _c	Conducted power
Test mode	Separation	type	MHz	dBm
			809.0125	24.85
			815.5	24.95
DMO	251-11-		823.9875	25.06
DIVIO	MO 25kHz	/A DODGK	854.0125	24.81
			860.5	24.96
			868.9875	25.06
		/4-DQPSK	809.0125	24.89
			815.5	24.99
TMO	251-11-		823.9875	25.07
TWIO	25kHz		854.0125	24.90
		860.5	24.94	
			868.9875	25.05

Note: The rated low power is 25dBm

FCC Part 90 Page 9 of 60

FCC §2.1046, §90.210& §90.221- ADJACENT CHANNEL POWER

Applicable Standard

FCC §2.1046, §90.210& §90.221

According to FCC§90.221 (c) (1), Maximum adjacent power levels for frequencies in the 809-824/854-869 MHz band:

Report No.: RDG150813005-00A

II ' -	, ,	Maximum ACP (dBc) for devices 15 watts and above
25 kHz	-55 dBc	−55 dBc
50 kHz	-65 dBc	−65 dBc
75 kHz	-65 dBc	-70 dBc

(2) In any case, no requirement in excess of -36 dBm shall apply

Test Procedure

The EUT was connected to the Spectrum Analyzer with suitable attenuator



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.1~27.6
Relative Humidity:	56~61 %
ATM Pressure:	99.4~100.2 kPa

The testing was performed by Dean Liu on2015-08-23 & 2015-09-04.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following table and plots.

FCC Part 90 Page 10 of 60

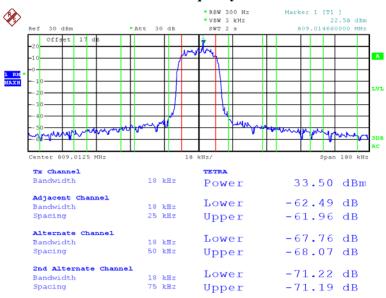
Modulation Mode	Channel Separation	Modulation type	f _c (MHz)	Frequency offset (kHz)	Adjacent Channel Power Ratio (dB)	Limit (dB)
				±25	61.96	55
			809.0125	±50	67.76	65
				±75	71.19	65
				±25	62.05	55
			815.5	±50	67.50	65
				±75	70.70	65
				±25	62.42	55
			823.9875	±50	67.59	65
DMO	251.11			±75	70.90	65
DMO	25kHz			±25	61.90	55
			854.0125	±50	68.09	65
				±75	70.82	65
				±25	62.12	55
			860.5	±50	68.51	65
				±75	70.55	65
				±25	62.34	55
		/4-	868.9875	±50	68.50	65
				±75	71.32	65
		DQPSK		±25	61.86	55
			809.0125	±50	66.96	65
				±75	70.24	65
			815.5	±25	61.44	55
				±50	66.99	65
				±75	70.51	65
			823.9875	±25	61.54	55
				±50	66.50	65
	44.5			±75	70.01	65
TMO	25kHz			±25	61.21	55
			854.0125	±50	67.36	65
				±75	70.45	65
				±25	62.92	55
			860.5	±50	68.39	65
				±75	70.55	65
			868.9875	±25	61.61	55
				±50	67.77	65
				±75	70.53	65

Report No.: RDG150813005-00A

FCC Part 90 Page 11 of 60

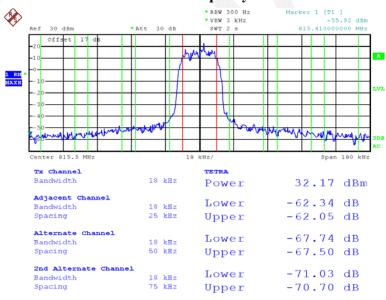
DMO for Frequency 809.0125 MHz

Report No.: RDG150813005-00A



Date: 23.AUG.2015 01:04:47

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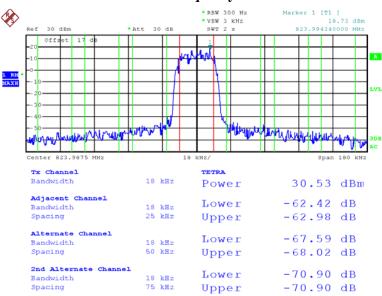


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FCC Part 90 Page 12 of 60

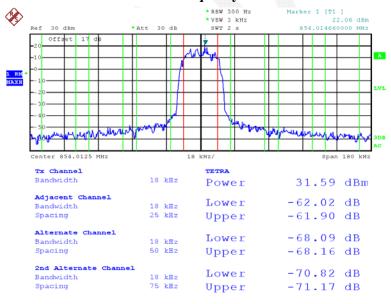
DMO for Frequency 823.9875 MHz

Report No.: RDG150813005-00A



Date: 23.AUG.2015 01:07:37

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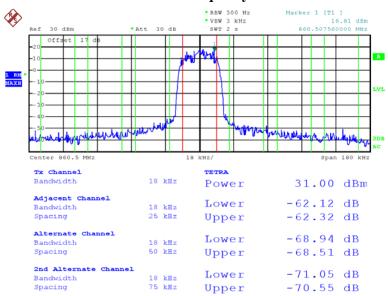


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FCC Part 90 Page 13 of 60

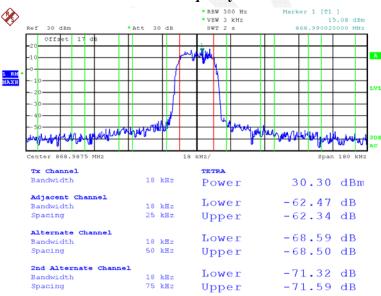
DMO for Frequency 860.5 MHz

Report No.: RDG150813005-00A



Date: 23.AUG.2015 01:09:09

DMO for Frequency 868.9875 MHz

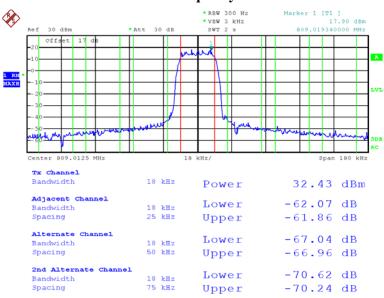


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FCC Part 90 Page 14 of 60

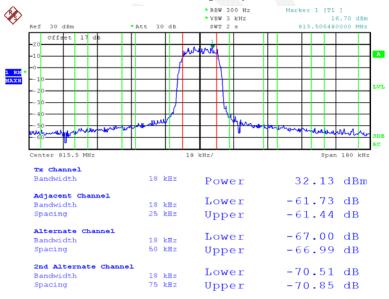
TMO for Frequency 809.0125 MHz

Report No.: RDG150813005-00A



Date: 30.AUG.2015 00:22:13

TMO for Frequency 815.5 MHz

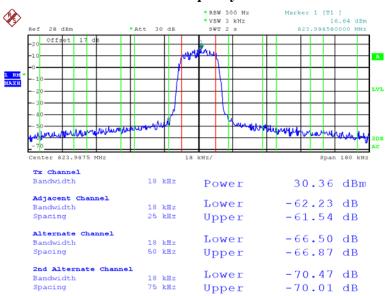


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FCC Part 90 Page 15 of 60

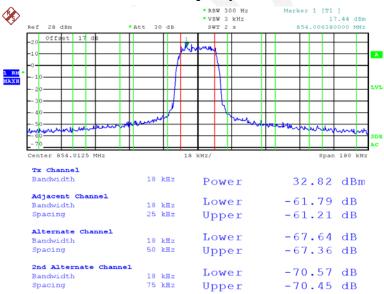
TMO for Frequency 823.9875 MHz

Report No.: RDG150813005-00A



Date: 30.AUG.2015 00:54:27

TMO for Frequency 854.0125 MHz

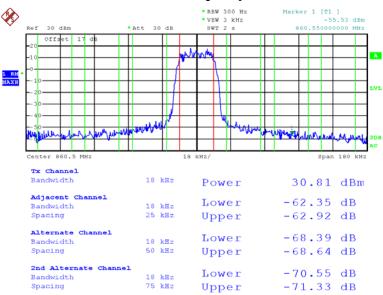


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FCC Part 90 Page 16 of 60

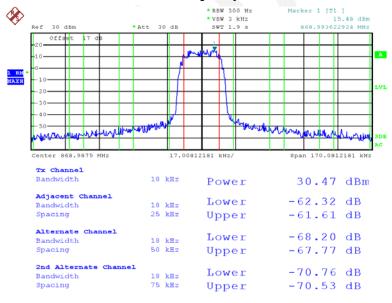
TMO for Frequency 860.5 MHz

Report No.: RDG150813005-00A



Date: 30.AUG.2015 01:43:57

TMO for Frequency 868.9875 MHz



Date: 30.AUG.2015 19:04:03

FCC Part 90 Page 17 of 60

Modulation Mode	Channel Separation	Modulation type	f _c (MHz)	Frequency offset (kHz)	Adjacent Channel Power Ratio (dB)	Limit (dB)
				± 25	62.49	55
			809.0125	± 50	67.10	65
				± 75	70.16	65
				± 25	61.85	55
			815.5	± 50	66.83	65
				± 75	70.72	65
				± 25	61.57	55
			823.9875	± 50	65.97	65
DMO	251.11		-	± 75	70.59	65
DMO	25kHz			± 25	62.51	55
			854.0125	± 50	67.71	65
			-	± 75	70.37	65
				± 25	62.75	55
			860.5	± 50	67.78	65
		-	± 75	70.78	65	
				± 25	63.46	55
		25kHz	868.9875	± 50	68.38	65
				± 75	71.60	65
				± 25	60.60	55
			809.0125	± 50	65.62	65
				± 75	70.34	65
			815.5	± 25	60.35	55
				± 50	65.14	65
				± 75	68.71	65
	4		823.9875	± 25	61.00	55
				± 50	65.26	65
TMO	051 11			± 75	68.11	65
TMO	25kHz		854.0125	± 25	61.64	55
				± 50	65.01	65
				± 75	69.63	65
				± 25	62.19	55
			860.5	± 50	67.59	65
				± 75	70.59	65
			868.9875	± 25	61.97	55
				± 50	67.06	65
				± 75	70.65	65

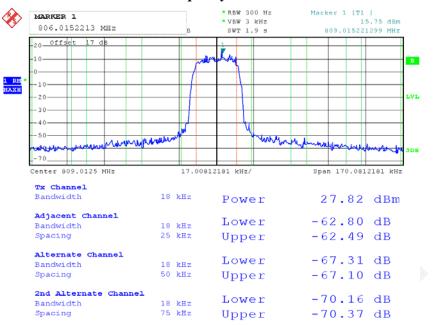
Report No.: RDG150813005-00A

Note: The rated power is 0.3 W

FCC Part 90 Page 18 of 60

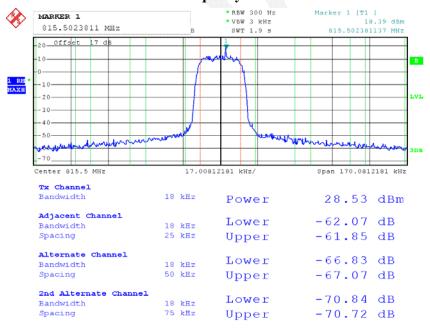
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Report No.: RDG150813005-00A



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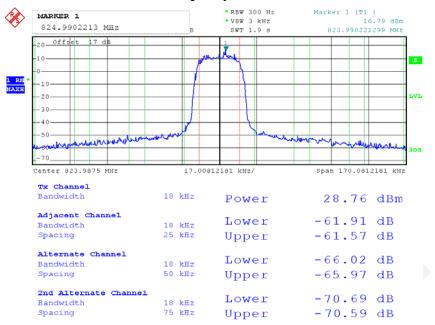


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FCC Part 90 Page 19 of 60

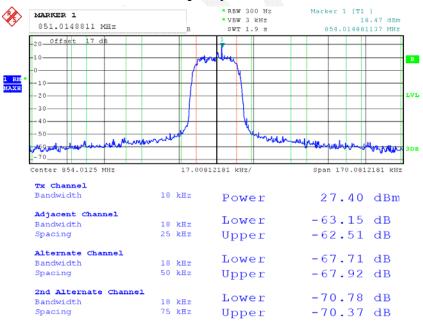
DMO for Frequency 823.9875 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 20:05:47

DMO for Frequency 854.0125 MHz

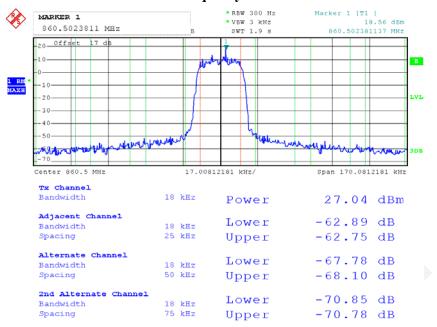


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FCC Part 90 Page 20 of 60

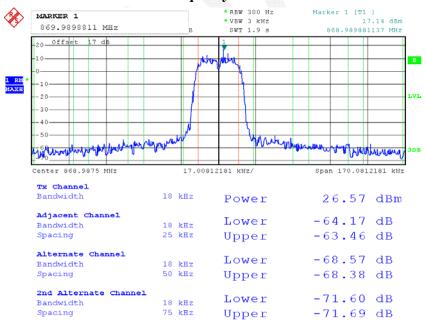
DMO for Frequency 860.5 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 20:00:29

DMO for Frequency 868.9875 MHz

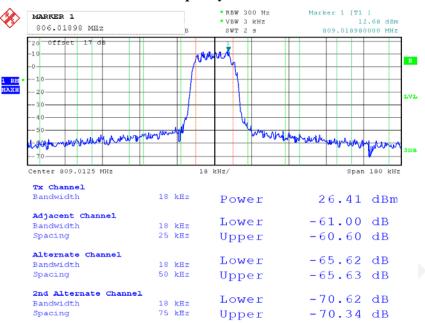


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FCC Part 90 Page 21 of 60

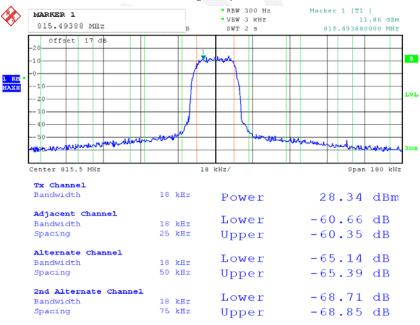
TMO for Frequency 809.0125 MHz

Report No.: RDG150813005-00A



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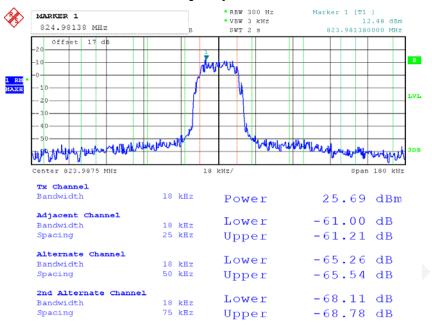


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FCC Part 90 Page 22 of 60

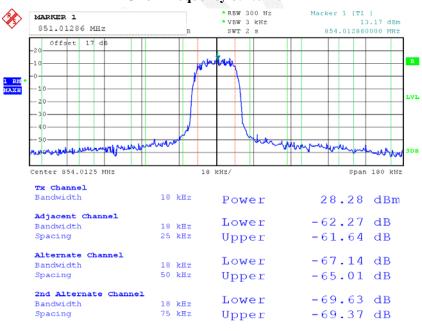
TMO for Frequency 823.9875 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 21:52:59

TMO for Frequency 854.0125 MHz

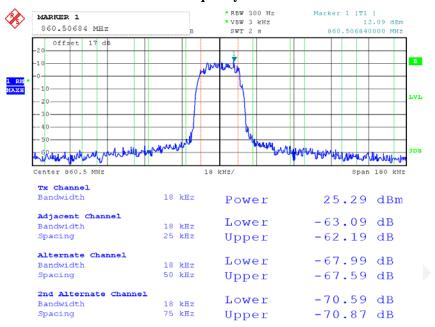


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FCC Part 90 Page 23 of 60

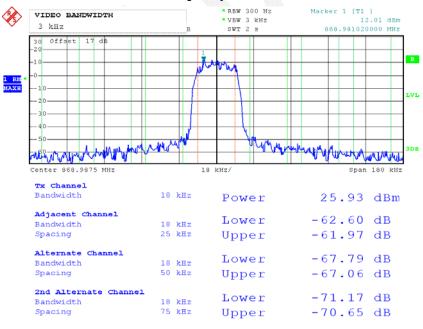
TMO for Frequency 860.5 MHz

Report No.: RDG150813005-00A



Date: 4.SEP.2015 09:57:23

TMO for Frequency 868.9875 MHz



Date: 4.SEP.2015 10:28:20

FCC Part 90 Page 24 of 60

FCC §2.1049 & §90.209, §90.210§90.691 – OCCUPIED BANDWIDTH & EMISSION MASK

Report No.: RDG150813005-00A

Applicable Standard

FCC §2.1049, §90.209, §90.210 and §90.691

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not 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 not 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 $43 + 10 \log (P) dB$.

Emission Mask I. For transmitters that are equipped with an audio low pass filter, the power of any emission must be attenuated below the unmodulated carrier power of the transmitter (P) as follows:

- (1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency of more than 6.8 kHz, but no more than 9.0 kHz: At least 25 dB;
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency of more than 9.0 kHz, but no more than 15 kHz: At least 35 dB;
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency of more than 15 kHz: At least 43 + 10 log (P) dB, or 70 dB, whichever is the lesser attenuation.

Emission mask requirements for EA-based systems.

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or $50 + 10 Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\text{Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
- (b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC Part 90 Page 25 of 60

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 100 Hz and the spectrum was recorded in the frequency band ± 50 kHz from the carrier frequency.

Report No.: RDG150813005-00A

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.1~27.6
Relative Humidity:	56-58 %
ATM Pressure:	99.4 -100.2 kPa

The testing was performed by Dean Liu from 2015-08-23 to 2015-09-04.

High Power Level

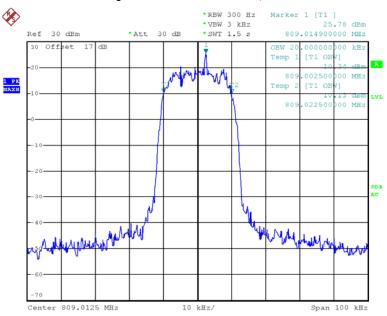
ModulationMode	Modulation type	Channel Separation	f _c (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)
			809.0125	20.00	22
			815.5	20.20	22
DMO		251.11.	823.9875	20.00	22
DMO		25kHz	854.0125	20.20	22
			860.5	20.60	22
	/4-		868.9875	19.80	22
	DQPSK		809.0125	20.40	22
ТМО		25kHz	815.5	20.40	22
			823.9875	20.40	22
			854.0125	20.00	22
			860.5	20.00	22
			868.9875	20.20	22

Note: Equipment meets the Adjacent Channel Power limits of §90.221, so emission mask is not tested.

FCC Part 90 Page 26 of 60

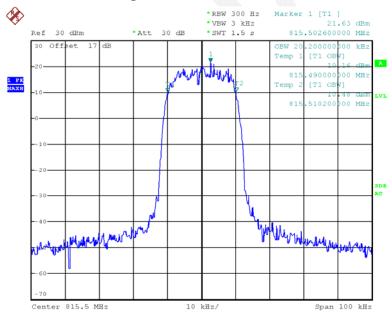
Occupied Bandwidth -DMO, 809.0125 MHz

Report No.: RDG150813005-00A



Date: 23.AUG.2015 01:22:19

Occupied Bandwidth -DMO, 815.5 MHz

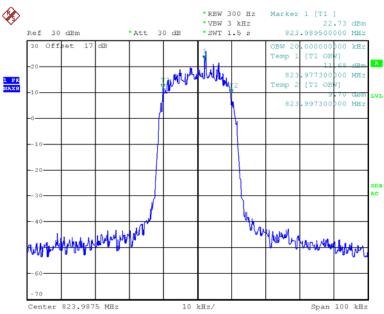


Date: 23.AUG.2015 01:19:55

FCC Part 90 Page 27 of 60

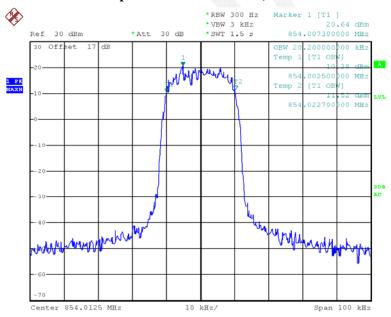
Occupied Bandwidth -DMO, 823.9875 MHz

Report No.: RDG150813005-00A



Date: 23.AUG.2015 01:20:55

Occupied Bandwidth -DMO, 854.0125 MHz

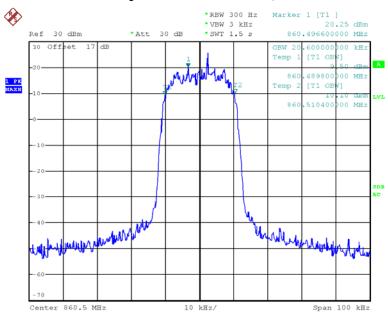


Date: 23.AUG.2015 01:14:43

FCC Part 90 Page 28 of 60

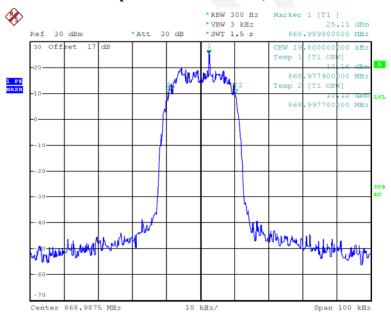
Occupied Bandwidth -DMO, 860.5 MHz

Report No.: RDG150813005-00A



Date: 23.AUG.2015 01:18:00

Occupied Bandwidth -DMO, 868.9875 MHz

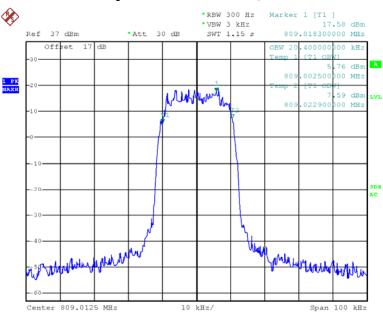


Date: 23.AUG.2015 01:15:52

FCC Part 90 Page 29 of 60

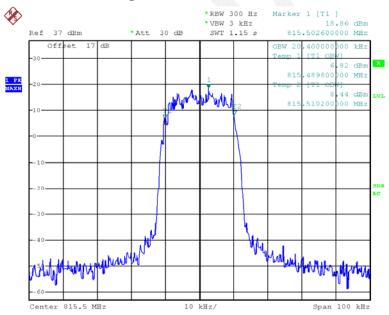
Occupied Bandwidth -TMO, 809.0125 MHz

Report No.: RDG150813005-00A



Date: 30.AUG.2015 00:15:04

Occupied Bandwidth -TMO, 815.5 MHz

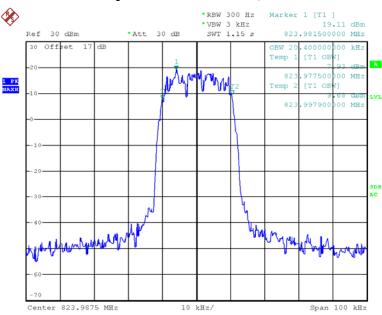


Date: 30.AUG.2015 00:42:42

FCC Part 90 Page 30 of 60

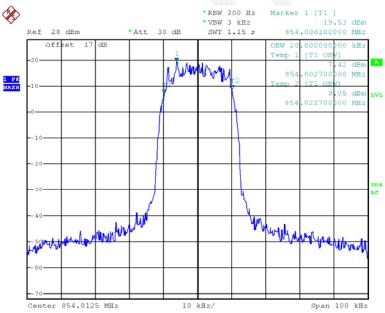
Occupied Bandwidth -TMO, 823.9875 MHz

Report No.: RDG150813005-00A



Date: 30.AUG.2015 00:53:15

Occupied Bandwidth -TMO, 854.0125 MHz

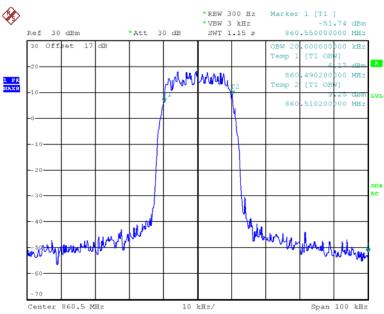


Date: 30.AUG.2015 01:07:47

FCC Part 90 Page 31 of 60

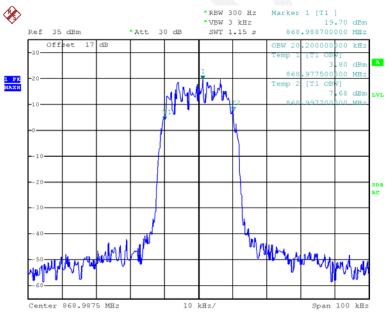
Occupied Bandwidth -TMO, 860.5 MHz

Report No.: RDG150813005-00A



Date: 30.AUG.2015 01:42:49

Occupied Bandwidth -TMO, 868.9875 MHz



Date: 30.AUG.2015 19:04:53

FCC Part 90 Page 32 of 60

Low Power Level

ModulationMode	Modulation type	Channel Separation	f _c (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)
		25kHz	809.0125	20.00	22
	/4- DQPSK		815.5	20.20	22
DMO			823.9875	20.20	22
			854.0125	20.00	22
			860.5	20.00	22
			868.9875	20.40	22
ТМО		25kHz	809.0125	20.00	22
			815.5	20.40	22
			823.9875	20.40	22
			854.0125	20.20	22
			860.5	20.20	22
			868.9875	20.20	22

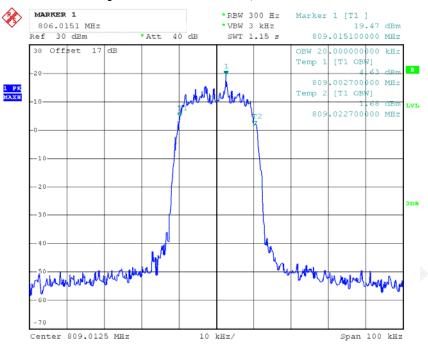
Report No.: RDG150813005-00A

Note: Equipment meets the Adjacent Channel Power limits of $\S 90.221$, so emission mask is not tested. The rated power is 0.3~W

FCC Part 90 Page 33 of 60

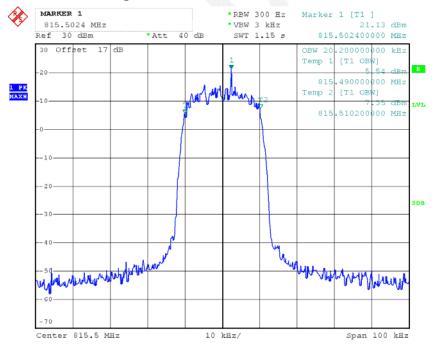
Occupied Bandwidth -DMO, 809.0125 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 20:19:51

Occupied Bandwidth -DMO, 815.5 MHz

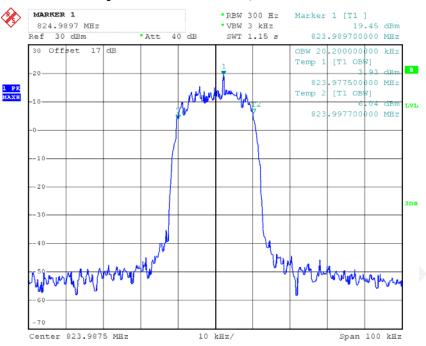


Date: 2.SEP.2015 20:14:49

FCC Part 90 Page 34 of 60

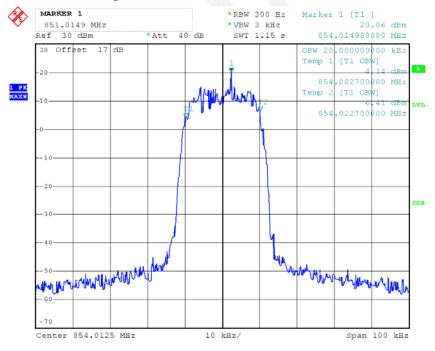
Occupied Bandwidth -DMO, 823.9875 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 20:16:25

Occupied Bandwidth -DMO, 854.0125 MHz

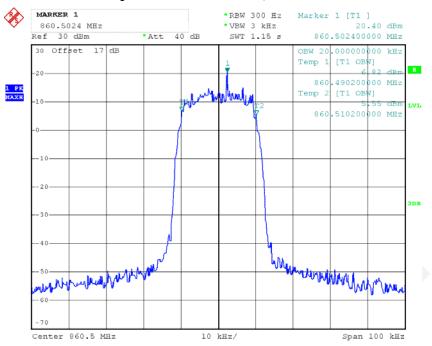


Date: 2.SEP.2015 20:13:29

FCC Part 90 Page 35 of 60

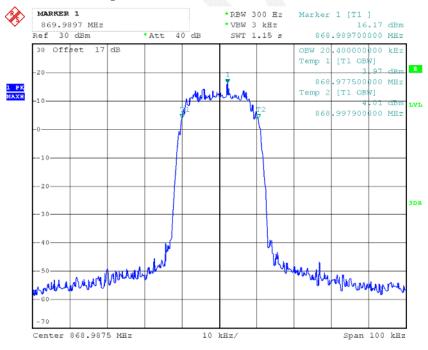
Occupied Bandwidth -DMO, 860.5 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 20:18:44

Occupied Bandwidth -DMO, 868.9875 MHz

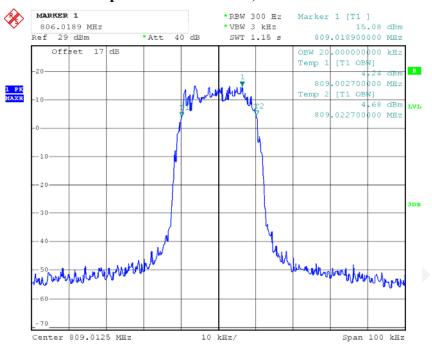


Date: 2.SEP.2015 20:17:34

FCC Part 90 Page 36 of 60

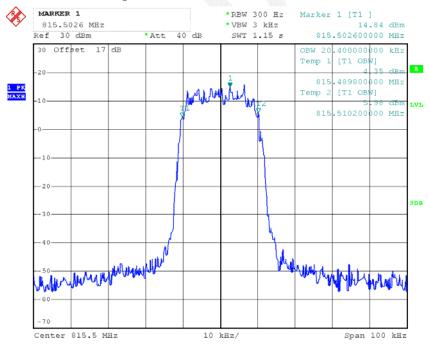
Occupied Bandwidth -TMO, 809.0125 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 21:15:05

Occupied Bandwidth -TMO, 815.5 MHz

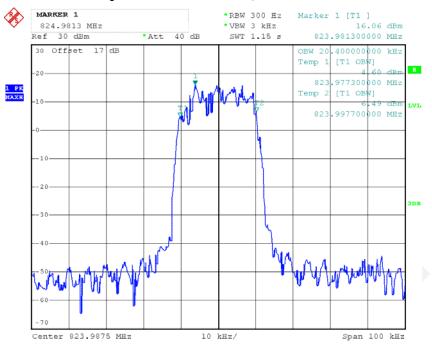


Date: 2.SEP.2015 21:24:22

FCC Part 90 Page 37 of 60

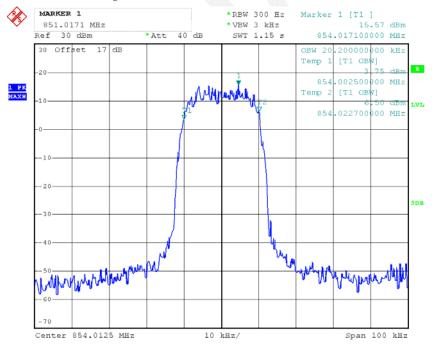
Occupied Bandwidth -TMO, 823.9875 MHz

Report No.: RDG150813005-00A



Date: 2.SEP.2015 21:52:25

Occupied Bandwidth -TMO, 854.0125 MHz

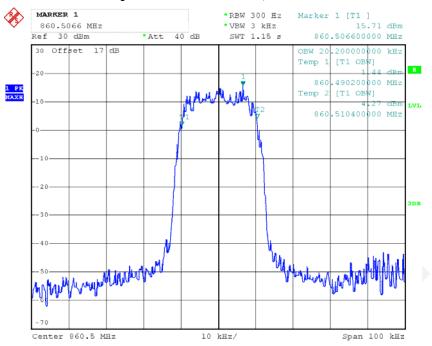


Date: 2.SEP.2015 21:58:53

FCC Part 90 Page 38 of 60

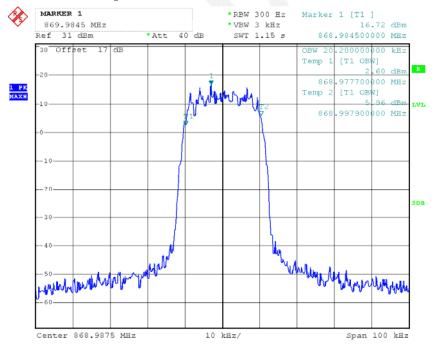
Occupied Bandwidth -TMO, 860.5 MHz

Report No.: RDG150813005-00A



Date: 4.SEP.2015 09:54:37

Occupied Bandwidth -TMO, 868.9875 MHz



Date: 4.SEP.2015 10:29:33

FCC Part 90 Page 39 of 60

FCC §2.1051 & §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

Report No.: RDG150813005-00A

- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not 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 $43 + 10 \log (P) dB$.

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 at 100kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.1~27.6
Relative Humidity:	56-58 %
ATM Pressure:	99.4 -100.2 kPa

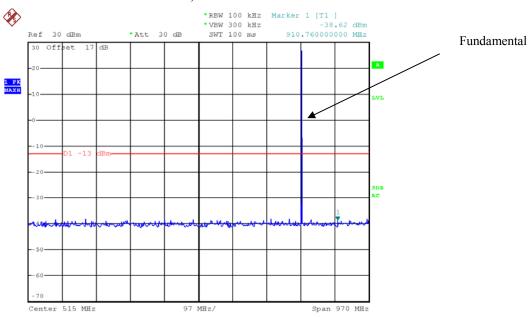
The testing was performed by Dean Liu on 2015-08-23 & 2015-08-30.

Test Mode: Transmitting

FCC Part 90 Page 40 of 60

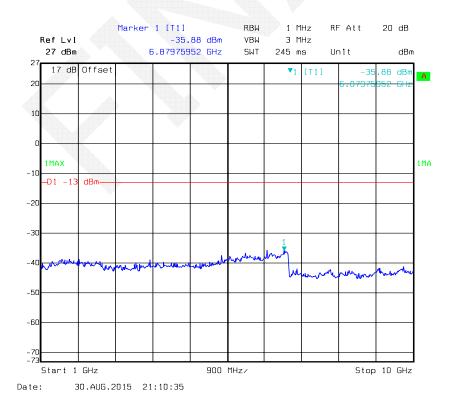
High power level

DMO, 809.0125 MHz



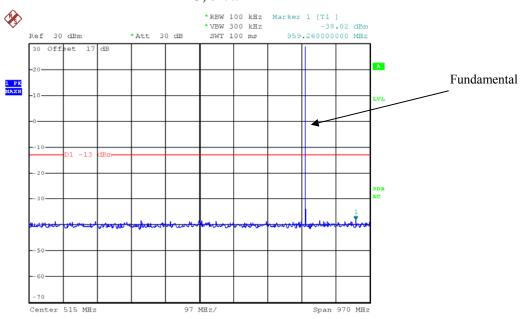
Report No.: RDG150813005-00A

Date: 23.AUG.2015 04:09:01



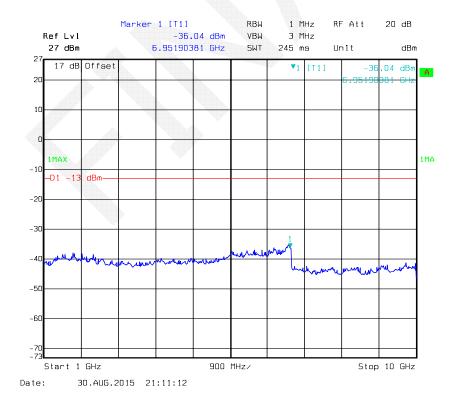
FCC Part 90 Page 41 of 60

DMO, 815.5 MHz



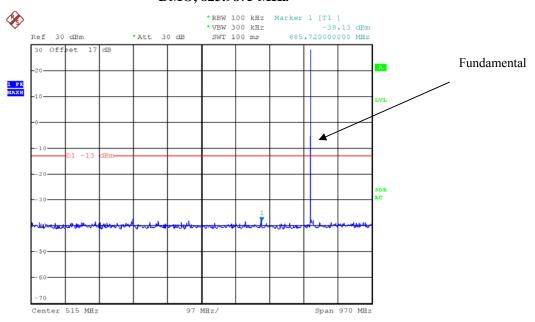
Report No.: RDG150813005-00A

Date: 23.AUG.2015 04:09:41



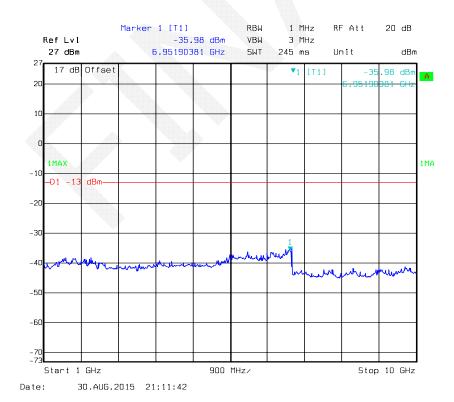
FCC Part 90 Page 42 of 60

DMO, 823.9875 MHz



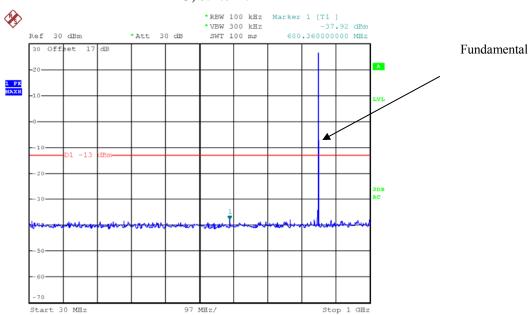
Report No.: RDG150813005-00A

Date: 23.AUG.2015 04:10:05



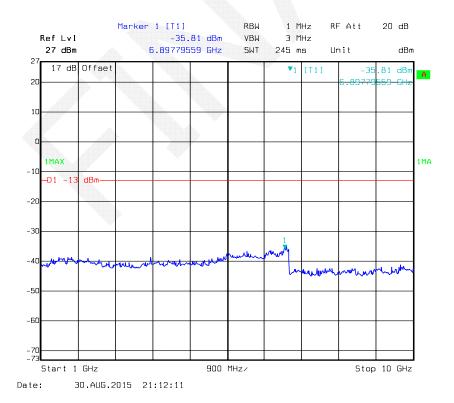
FCC Part 90 Page 43 of 60

DMO, 854.0125 MHz



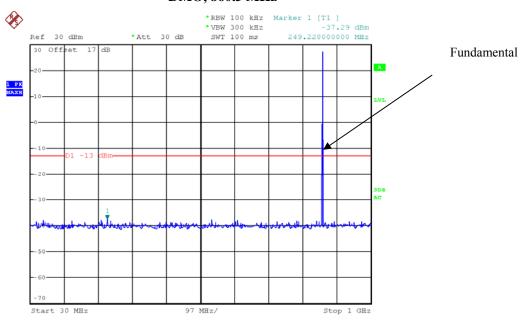
Report No.: RDG150813005-00A

Date: 23.AUG.2015 04:13:14



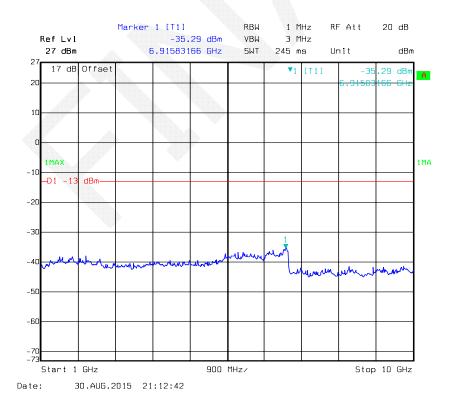
FCC Part 90 Page 44 of 60

DMO, 860.5 MHz



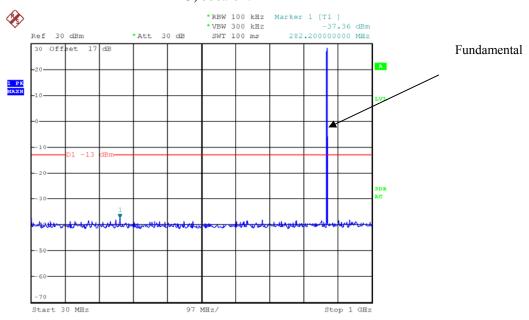
Report No.: RDG150813005-00A

Date: 23.AUG.2015 04:12:27



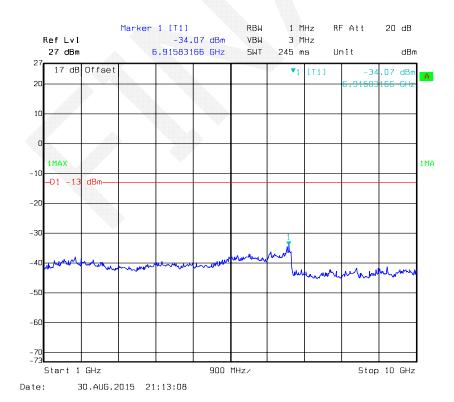
FCC Part 90 Page 45 of 60

DMO, 868.9875 MHz



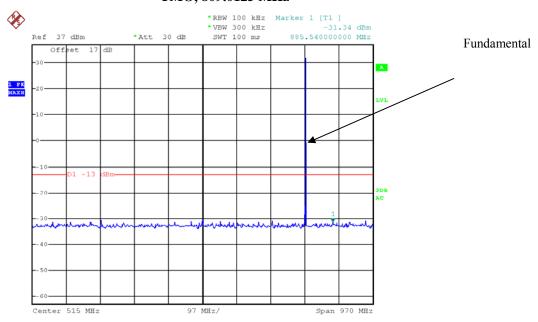
Report No.: RDG150813005-00A

Date: 23.AUG.2015 04:10:48



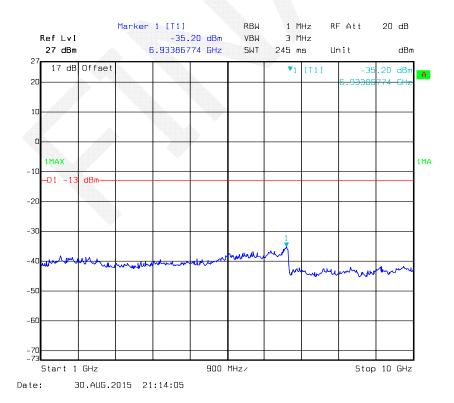
FCC Part 90 Page 46 of 60

TMO, 809.0125 MHz



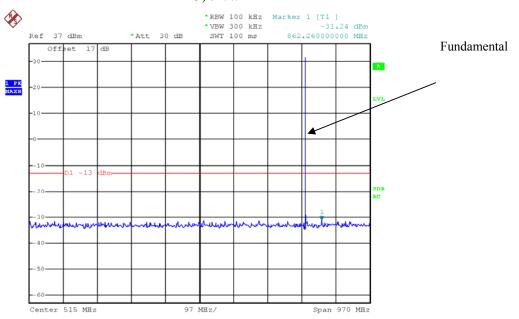
Report No.: RDG150813005-00A

Date: 30.AUG.2015 03:17:42



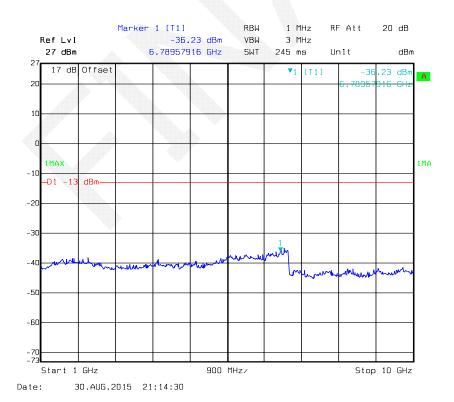
FCC Part 90 Page 47 of 60

TMO, 815.5 MHz



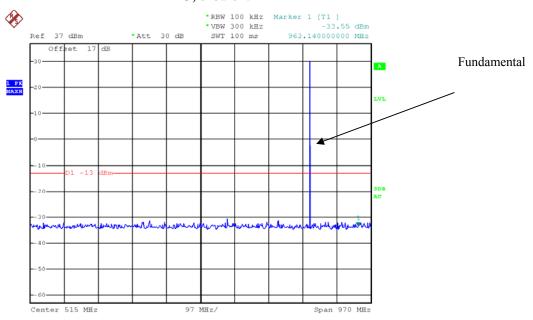
Report No.: RDG150813005-00A

Date: 30.AUG.2015 03:22:23



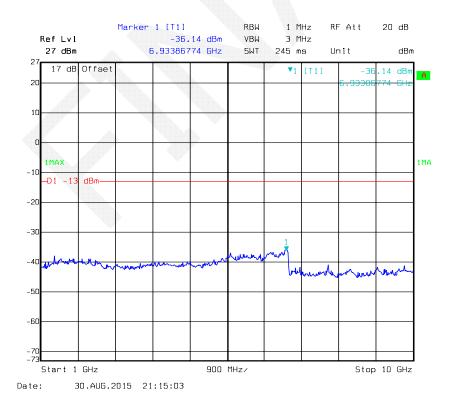
FCC Part 90 Page 48 of 60

TMO, 823.9875 MHz



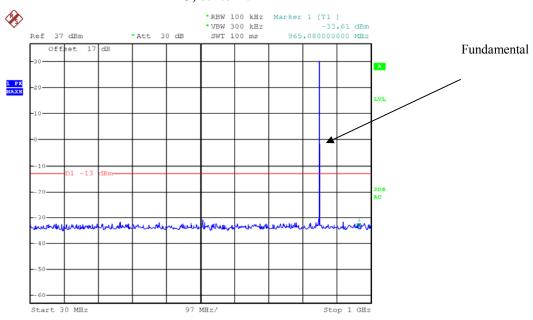
Report No.: RDG150813005-00A

Date: 30.AUG.2015 00:51:20



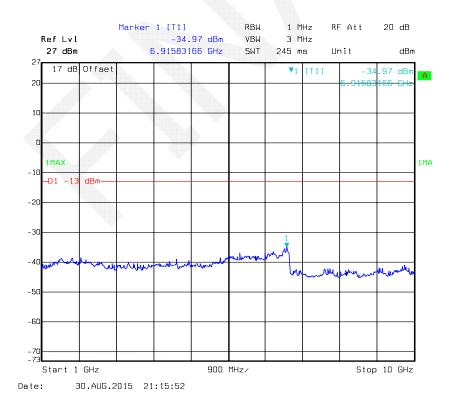
FCC Part 90 Page 49 of 60

TMO, 854.0125 MHz



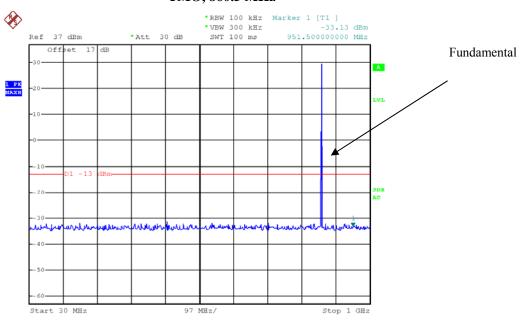
Report No.: RDG150813005-00A

Date: 30.AUG.2015 01:08:27



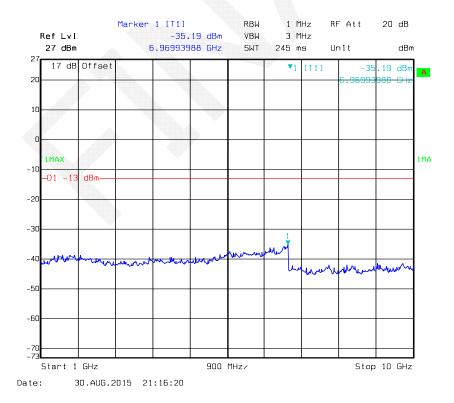
FCC Part 90 Page 50 of 60

TMO, 860.5 MHz



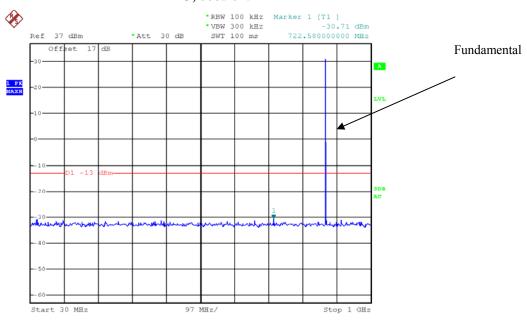
Report No.: RDG150813005-00A

Date: 30.AUG.2015 01:09:20



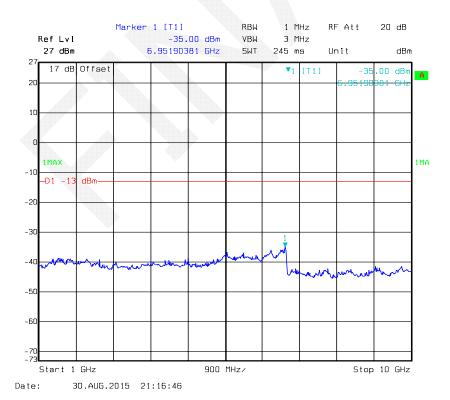
FCC Part 90 Page 51 of 60

TMO, 868.9875 MHz



Report No.: RDG150813005-00A

Date: 30.AUG.2015 03:34:17



FCC Part 90 Page 52 of 60

FCC §2.1053 & §90.210 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §2.1053, §90.210

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

Report No.: RDG150813005-00A

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to teeth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 1g (TXpwr in Watts/0.001)-the absolute level

Spurious attenuation limit in dB =43+10 Log₁₀ (power out in Watts) for EUT with a 12.5 kHz channel bandwidth.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
HP	Signal Generator	8648A	3426A00831	2014-11-06	2015-11-06
Sunol Sciences	Antenna	ЈВ3	A060611-1	2014-09-06	2017-09-05
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
HP	Amplifier	8447E	2434A02181	2014-09-06	2015-09-06
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Agilent	Signal Generator	E8247C	MY43321350	2014-10-15	2015-10-15
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
TDK RF	Horn Antenna	HRN-0118	130 084	2012-09-06	2015-09-06
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

FCC Part 90 Page 53 of 60

Test Data

Environmental Conditions

Temperature:	27.4
Relative Humidity:	57 %
ATM Pressure:	100 kPa

The testing was performed by Dean Liu on 2015-08-28.

Test Mode: Transmitting

30MHz - 10GHz:

DMO

		ъ.	S	ubstituted Me	ethod			
Frequency (MHz)	cy Polar Re	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Freque	ncy:809.0125	MHz			
1618.025	Н	33.74	-67.4	10.3	1.2	-58.3	-13.0	45.3
1618.025	V	33.37	-68.5	10.3	1.2	-59.4	-13.0	46.4
2427.038	Н	35.22	-62.2	12.5	2.7	-52.4	-13.0	39.4
2427.038	V	34.32	-61.9	12.5	2.7	-52.1	-13.0	39.1
3236.050	Н	32.13	-65.3	13.6	2.2	-53.9	-13.0	40.9
3236.050	V	31.95	-64.8	13.6	2.2	-53.4	-13.0	40.4
4045.063	Н	31.27	-62.8	13.9	3.2	-52.1	-13.0	39.1
4045.063	V	30.82	-62.7	13.9	3.2	-52.0	-13.0	39.0
346.000	Н	30.17	-72.4	0.0	0.6	-73.0	-13.0	60.0
346.000	V	29.63	-75.2	0.0	0.6	-75.8	-13.0	62.8
			Frequ	iency:815.500	0 MHz			
1631.000	Н	33.29	-67.9	10.3	1.3	-58.9	-13.0	45.9
1631.000	V	32.69	-69	10.3	1.3	-60.0	-13.0	47.0
2446.500	Н	32.20	-65.5	12.7	2.6	-55.4	-13.0	42.4
2446.500	V	31.86	-64.6	12.7	2.6	-54.5	-13.0	41.5
3262.000	Н	32.48	-64.9	13.6	2.2	-53.5	-13.0	40.5
3262.000	V	31.73	-65.1	13.6	2.2	-53.7	-13.0	40.7
4077.500	Н	31.37	-63	13.8	3.1	-52.3	-13.0	39.3
4077.500	V	30.83	-63	13.8	3.1	-52.3	-13.0	39.3
346.000	Н	31.44	-71.1	0.0	0.6	-71.7	-13.0	58.7
346.000	V	30.82	-74	0.0	0.6	-74.6	-13.0	61.6

Report No.: RDG150813005-00A

FCC Part 90 Page 54 of 60

			Sı	ubstituted Me	ethod			
Frequency (MHz)	Polar (H/V)	Randing	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Frequer	ncy:823.9875	MHz			
1647.975	Н	33.89	-67.2	10.5	1.3	-58.0	-13.0	45.0
1647.975	V	32.72	-68.9	10.5	1.3	-59.7	-13.0	46.7
2471.963	Н	32.30	-65.7	12.9	2.6	-55.4	-13.0	42.4
2471.963	V	31.61	-65.1	12.9	2.6	-54.8	-13.0	41.8
3295.950	Н	31.96	-65.3	13.6	2.1	-53.8	-13.0	40.8
3295.950	V	31.74	-65.1	13.6	2.1	-53.6	-13.0	40.6
1760.000	Н	47.53	-53	10.9	1.4	-43.5	-13.0	30.5
1760.000	V	44.82	-56	10.9	1.4	-46.5	-13.0	33.5
346.000	Н	30.83	-71.7	0.0	0.6	-72.3	-13.0	59.3
346.000	V	29.95	-74.9	0.0	0.6	-75.5	-13.0	62.5
Frequency:854.0125 MHz							'	
1708.025	Н	33.08	-67.9	10.8	1.4	-58.5	-13.0	45.5
1708.025	V	32.87	-68.2	10.8	1.4	-58.8	-13.0	45.8
2562.038	Н	33.32	-62.6	13.2	2.5	-51.9	-13.0	38.9
2562.038	V	32.48	-64.6	13.2	2.5	-53.9	-13.0	40.9
3416.050	Н	32.12	-65.3	14.0	2.3	-53.6	-13.0	40.6
3416.050	V	31.80	-65.3	14.0	2.3	-53.6	-13.0	40.6
346.000	Н	31.26	-71.3	0.0	0.6	-71.9	-13.0	58.9
346.000	V	30.44	-74.4	0.0	0.6	-75.0	-13.0	62.0
			Frequer	ncy:860.5000 l	MHz			
1721.000	Н	33.64	-67.2	10.8	1.4	-57.8	-13.0	44.8
1721.000	V	33.55	-67.5	10.8	1.4	-58.1	-13.0	45.1
2581.500	Н	35.85	-59.3	13.2	2.5	-48.6	-13.0	35.6
2581.500	V	34.47	-62.6	13.2	2.5	-51.9	-13.0	38.9
3442.000	Н	32.09	-65.1	14.0	2.2	-53.3	-13.0	40.3
3442.000	V	31.44	-65.1	14.0	2.2	-53.3	-13.0	40.3
1752.000	Н	38.55	-62	10.9	1.4	-52.5	-13.0	39.5
1752.000	V	36.67	-64.2	10.9	1.4	-54.7	-13.0	41.7
346.000	Н	31.22	-71.3	0.0	0.6	-71.9	-13.0	58.9
346.000	V	29.63	-75.2	0.0	0.6	-75.8	-13.0	62.8

FCC Part 90 Page 55 of 60

	Donoissan		Sı	Substituted Method				
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Frequency:868.9875 MHz							
1737.975	Н	33.78	-66.9	10.9	1.4	-57.4	-13.0	44.4
1737.975	V	32.24	-68.7	10.9	1.4	-59.2	-13.0	46.2
2606.963	Н	33.16	-61.4	13.2	2.5	-50.7	-13.0	37.7
2606.963	V	32.30	-64.9	13.2	2.5	-54.2	-13.0	41.2
3475.950	Н	30.86	-66	13.9	2.1	-54.2	-13.0	41.2
3475.950	V	30.81	-65.2	13.9	2.1	-53.4	-13.0	40.4
346.000	Н	31.15	-71.4	0.0	0.6	-72.0	-13.0	59.0
346.000	V	30.56	-74.2	0.0	0.6	-74.8	-13.0	61.8

Note:

Absolute Level = SG Level - Cable loss + Antenna Gain Margin = Limit- Absolute Level

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		Receiver	S	ubstituted Me	thod	Absolute		
Frequency (MHz)	Polar (H/V)	Polar Reading	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	MHz							
1618.025	Н	33.88	-67.3	10.3	1.2	-58.2	-13.0	45.2
1618.025	V	33.47	-68.4	10.3	1.2	-59.3	-13.0	46.3
2427.038	Н	35.32	-62.1	12.5	2.7	-52.3	-13.0	39.3
2427.038	V	34.45	-61.7	12.5	2.7	-51.9	-13.0	38.9
3236.050	Н	32.18	-65.2	13.6	2.2	-53.8	-13.0	40.8
3236.050	V	32.05	-64.7	13.6	2.2	-53.3	-13.0	40.3
4045.063	Н	31.40	-62.7	13.9	3.2	-52.0	-13.0	39.0
4045.063	V	30.90	-62.6	13.9	3.2	-51.9	-13.0	38.9
346.000	Н	30.25	-72.3	0.0	0.6	-72.9	-13.0	59.9
346.000	V	29.53	-75.3	0.0	0.6	-75.9	-13.0	62.9
			Frequ	iency:815.500	0 MHz			
1631.000	Н	33.42	-67.7	10.3	1.3	-58.7	-13.0	45.7
1631.000	V	32.70	-69	10.3	1.3	-60.0	-13.0	47.0
2446.500	Н	32.33	-65.3	12.7	2.6	-55.2	-13.0	42.2
2446.500	V	31.97	-64.5	12.7	2.6	-54.4	-13.0	41.4
3262.000	Н	32.63	-64.7	13.6	2.2	-53.3	-13.0	40.3
3262.000	V	31.78	-65	13.6	2.2	-53.6	-13.0	40.6
4077.500	Н	31.40	-63	13.8	3.1	-52.3	-13.0	39.3
4077.500	V	30.93	-62.9	13.8	3.1	-52.2	-13.0	39.2
346.000	Н	30.93	-71.6	0.0	0.6	-72.2	-13.0	59.2
346.000	V	29.65	-75.2	0.0	0.6	-75.8	-13.0	62.8

FCC Part 90 Page 56 of 60

		-	Sı	ubstituted Me	ethod			
Frequency (MHz)	Polar (H/V)		S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Frequer	ncy:823.9875 l	MHz			
1647.975	Н	33.99	-67.1	10.5	1.3	-57.9	-13.0	44.9
1647.975	V	32.78	-68.8	10.5	1.3	-59.6	-13.0	46.6
2471.963	Н	32.45	-65.6	12.9	2.6	-55.3	-13.0	42.3
2471.963	V	31.75	-65	12.9	2.6	-54.7	-13.0	41.7
3295.950	Н	32.02	-65.3	13.6	2.1	-53.8	-13.0	40.8
3295.950	V	31.81	-65.1	13.6	2.1	-53.6	-13.0	40.6
1760.000	Н	47.61	-52.9	10.9	1.4	-43.4	-13.0	30.4
1760.000	V	44.92	-55.9	10.9	1.4	-46.4	-13.0	33.4
346.000	Н	30.95	-71.6	0.0	0.6	-72.2	-13.0	59.2
346.000	V	28.99	-75.8	0.0	0.6	-76.4	-13.0	63.4
Frequency:854.0125 MHz								
1708.025	Н	33.21	-67.8	10.8	1.4	-58.4	-13.0	45.4
1708.025	V	32.89	-68.2	10.8	1.4	-58.8	-13.0	45.8
2562.038	Н	33.38	-62.6	13.2	2.5	-51.9	-13.0	38.9
2562.038	V	32.52	-64.6	13.2	2.5	-53.9	-13.0	40.9
3416.050	Н	32.16	-65.2	14.0	2.3	-53.5	-13.0	40.5
3416.050	V	31.81	-65.2	14.0	2.3	-53.5	-13.0	40.5
346.000	Н	31.41	-71.1	0.0	0.6	-71.7	-13.0	58.7
346.000	V	30.53	-74.3	0.0	0.6	-74.9	-13.0	61.9
			Frequer	cy:860.5000 I	MHz			
1721.000	Н	33.65	-67.2	10.8	1.4	-57.8	-13.0	44.8
1721.000	V	33.56	-67.5	10.8	1.4	-58.1	-13.0	45.1
2581.500	Н	35.98	-59.2	13.2	2.5	-48.5	-13.0	35.5
2581.500	V	34.61	-62.5	13.2	2.5	-51.8	-13.0	38.8
3442.000	Н	32.17	-65	14.0	2.2	-53.2	-13.0	40.2
3442.000	V	31.58	-65	14.0	2.2	-53.2	-13.0	40.2
1752.000	Н	38.68	-61.9	10.9	1.4	-52.4	-13.0	39.4
1752.000	V	36.68	-64.2	10.9	1.4	-54.7	-13.0	41.7
346.000	Н	31.31	-71.2	0.0	0.6	-71.8	-13.0	58.8
346.000	V	29.44	-75.4	0.0	0.6	-76.0	-13.0	63.0

FCC Part 90 Page 57 of 60

	Danima		Sı	Substituted Method				
Frequency (MHz)	Frequency Polar	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Frequency:868.9875 MHz							
1737.975	Н	33.86	-66.9	10.9	1.4	-57.4	-13.0	44.4
1737.975	V	32.32	-68.6	10.9	1.4	-59.1	-13.0	46.1
2606.963	Н	33.25	-61.3	13.2	2.5	-50.6	-13.0	37.6
2606.963	V	32.36	-64.8	13.2	2.5	-54.1	-13.0	41.1
3475.950	Н	30.91	-65.9	13.9	2.1	-54.1	-13.0	41.1
3475.950	V	30.92	-65	13.9	2.1	-53.2	-13.0	40.2
346.000	Н	31.28	-71.3	0.0	0.6	-71.9	-13.0	58.9
346.000	V	30.05	-74.8	0.0	0.6	-75.4	-13.0	62.4

Note:

Absolute Level = SG Level - Cable loss + Antenna Gain Margin = Limit- Absolute Level

FCC Part 90 Page 58 of 60

FCC §2.1055 & §90.213- FREQUENCY STABILITY

Applicable Standard

FCC §2.1055, §90.213

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

Report No.: RDG150813005-00A

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09
Pro instrument	DC Power Supply	pps3300	1	2015-05-09	2016-05-09
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-4	2015-08-11	2016-08-11
UNI-T	Multimeter	UT39A	M130199938	2015-04-10	2016-04-10

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.5
Relative Humidity:	56 %
ATM Pressure:	100.2 kPa

The testing was performed by Dean Liu on 2015-08-28.

Test Mode: Transmitting

FCC Part 90 Page 59 of 60

fc =809.0125 MHz					
Temerature	Voltage	Reading	Frequency Error	Limit	
	Vdc	MHz	ppm	ppm	
-30	7.4	809.012449	-0.06		
-20	7.4	809.012464	-0.04		
-10	7.4	809.012471	-0.04	1.5	
0	7.4	809.012466	-0.04		
10	7.4	809.012480	-0.02		
20	7.4	809.012486	-0.02		
30	7.4	809.012479	-0.03		
40	7.4	809.012466	-0.04		
50	7.4	809.012472	-0.03		
25	6.3	809.012491	-0.01		

fc =860.5 MHz						
Temerature	Voltage	Reading	Frequency Error	Limit		
	Vdc	MHz	ppm	ppm		
-30	7.4	860.499970	-0.03	1.5		
-20	7.4	860.499965	-0.04			
-10	7.4	860.499959	-0.05			
0	7.4	860.499983	-0.02			
10	7.4	860.499981	-0.02			
20	7.4	860.499975	-0.03			
30	7.4	860.499986	-0.02			
40	7.4	860.499973	-0.03			
50	7.4	860.499983	-0.02			
25	6.3	860.499968	-0.04			

***** END OF REPORT *****

FCC Part 90 Page 60 of 60