FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

NVIDIA Corporation

Remote Control

Model No.: P2575

FCC ID: VOB-P2575

Prepared for : NVIDIA Corporation
2701 San Tomas Expressway, Santa Clara, CA, 95050, USA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
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Report Number : ACS-F15082
Date of Test : Mar.05~18, 2015
Date of Report : Mar.30, 2015

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TEST REPORT CERTIFICATION

Applicant	:	NVIDIA Corporation
Manufacturer	:	NVIDIA Corporation
EUT Description	:	Remote Control
FCC ID	:	VOB-P2575
		(A) MODEL NO. : P2575
		(B) SERIAL NO. : N/A
		(C)Power Supply : (1)DC3.8V From Battery; (2)DC 5V From USB port
		(D) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2014

Test procedure used:
ANSI C63.10: 2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Mar.05~18, 2015 Report of date: Mar.30, 2015

Prepared by : Cindy Zhu
Cindy Zhu / Assistant

Reviewed by :
Sunny Lu/ Assistant Manager

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature: David Jin 3.30

Approved & Authorized Signer :
David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	**Standard**	**Results**
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 2009	PASS
Radiated Emission Test	FCC Part 15 15.209 FCC Part 15 15.247(d) ANSI C63.10 2009	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 2009	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 2009	PASS
20dB & 99% Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 2009	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 2009	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 2009	PASS
Maximum Peak Output Power Test	FCC Part 15 15.247(b)(1)\ ANSI C63.10 2009	PASS
Band Edge Compliance Test	FCC Part 15 15.247(d) ANSI C63.10 2009	PASS

2. GENERAL INFORMATION

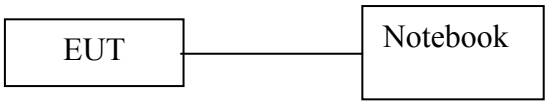
2.1. Description of Device (EUT)

Product Name	:	Remote Control
Model Number	:	P2575
FCC ID	:	VOB-P2575
Radio	:	Bluetooth V3.0+EDR
Operation Frequency	:	2402-2480MHz
Modulation Technology	:	GFSK, π/4DQPSK,8-DPSK
Antenna Assembly Gain	:	Antenna Type: IFA Bluetooth: -0.05dBi
Applicant	:	NVIDIA Corporation 2701 San Tomas Expressway, Santa Clara, CA,95050,USA
Manufacturer	:	NVIDIA Corporation 2701 San Tomas Expressway, Santa Clara, CA,95050,USA
Date of Test	:	Mar.05 ~ 18, 2015
Date of Receipt		Mar.03, 2015

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Notebook	N/A	DELL	PP09S	N/A	☑FCC DoC ☑BSMI ID:R41108
		Power Cable: Unshielded, Detectable, 1.8m Power Adapter:Manufactuer:DELL;Model:LA65NS1-00;				

2.3. Block Diagram of connection between EUT and simulators



(EUT: Remote Control)

2.4. Test information

A special software was used to control EUT work in Continuous TX mode, and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH39	2441
	1	High: CH78	2480
Tx Mode 8-DPSK modulation	3	Low :CH 0	2402
	3	Middle: CH39	2441
	3	High: CH78	2480
Note: π/4DQPSK modulation is same type modulation with 8-DPSK, and according exploratory test, 8-DPSK will have worse emissions, so the final test were only performed with GFSK and 8-DPSK modulation.			

2.5. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park,Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Dec.30, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Oct.31, 2015
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2015

2.6. Measurement Uncertainty (95% confidence levels, k=2)

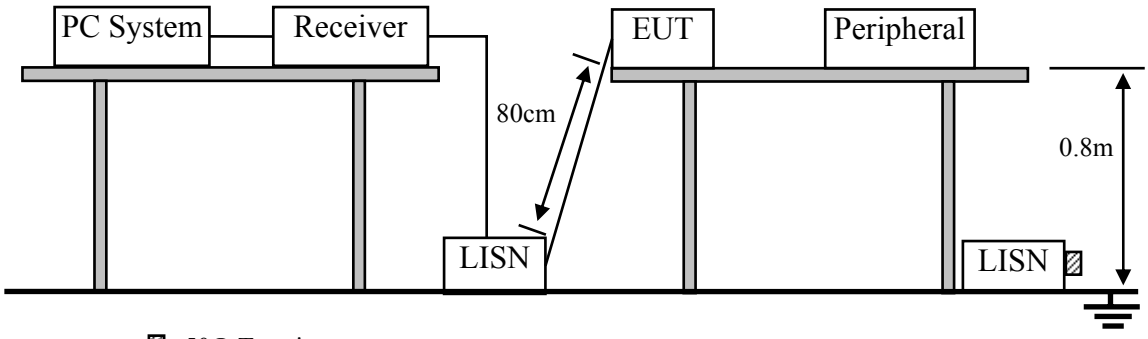
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.1dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.3 dB(30~200MHz, Polarize: H)
	3.3 dB(30~200MHz, Polarize: V)
	3.5 dB(200M~1GHz, Polarize: H)
	3.4 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	5.0 dB (1~6GHz, Distance: 3m)
	5.0 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6 dB
Uncertainty for Conduction Spurious emission test	2.0 dB
Uncertainty for Output power test	0.8 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6℃
	3%

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,14	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.29, 14	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29, 14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	Apr. 28,14	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	Apr. 28,14	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	Apr. 28,14	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Oct.29, 14	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr. 28,14	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29, 14	1 Year

3.2. Block Diagram of Test Setup



▨ :50Ω Terminator

3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Remote Control (EUT)

Model Number : P2575
Serial Number : N/A

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (TX Mode) and measure it.

3.6. Test Procedure

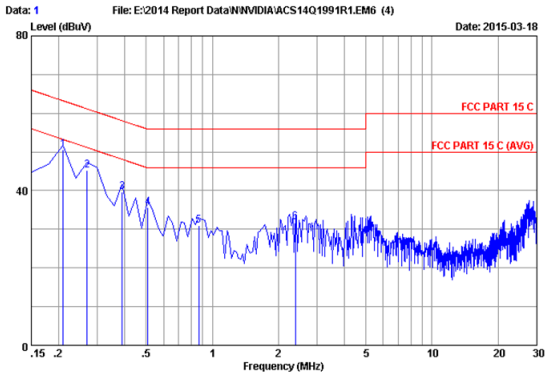
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2009 on conducted Emission test.

The bandwidth of test receiver (R & S ESHS10) is set at 9kHz and the QP detection was used.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Emission at Mains Terminals Test Results

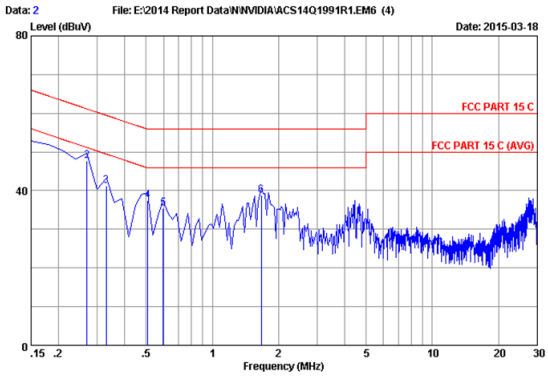
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1#conduction Data No :1
Dis./Ant. :** 2014 ESH2-Z5 LINE
Limit :FCC PART 15 C
Env./Ins. :23.2*C/47% Engineer :Kobe
EUT :Remote Control
DC 5V From PC Input AC 120V/60Hz
Power Rating :Tx Mode
Test Mode :M/N:P2575

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20970	0.13	9.90	40.60	50.63	63.22	12.59	QP
2	0.26940	0.13	9.90	35.24	45.27	61.14	15.87	QP
3	0.38880	0.71	9.90	29.07	39.68	58.09	18.41	QP
4	0.50820	0.15	9.90	25.58	35.63	56.00	20.37	QP
5	0.86640	0.16	9.91	21.00	31.07	56.00	24.93	QP
6	2.389	0.20	9.93	21.82	31.95	56.00	24.05	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
+Reading.
2.If the average limit is met when useing a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1#conduction Data No :2
Dis./Ant. :** 2014 ESH2-Z5 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :23.2*C/47% Engineer :Kobe
EUT :Remote Control
DC 5V From PC Input AC 120V/60Hz
Power Rating :Tx Mode
Test Mode :M/N:P2575

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.13	9.89	40.68	50.70	66.00	15.30	QP
2	0.26940	0.14	9.90	37.68	47.72	61.14	13.42	QP
3	0.32910	0.15	9.90	31.08	41.13	59.47	18.34	QP
4	0.50820	0.16	9.90	27.33	37.39	56.00	18.61	QP
5	0.59775	0.16	9.91	25.42	35.49	56.00	20.51	QP
6	1.672	0.19	9.92	28.65	38.76	56.00	17.24	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
+Reading.
2.If the average limit is met when useing a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

Frequency rang: 30~1000MHz

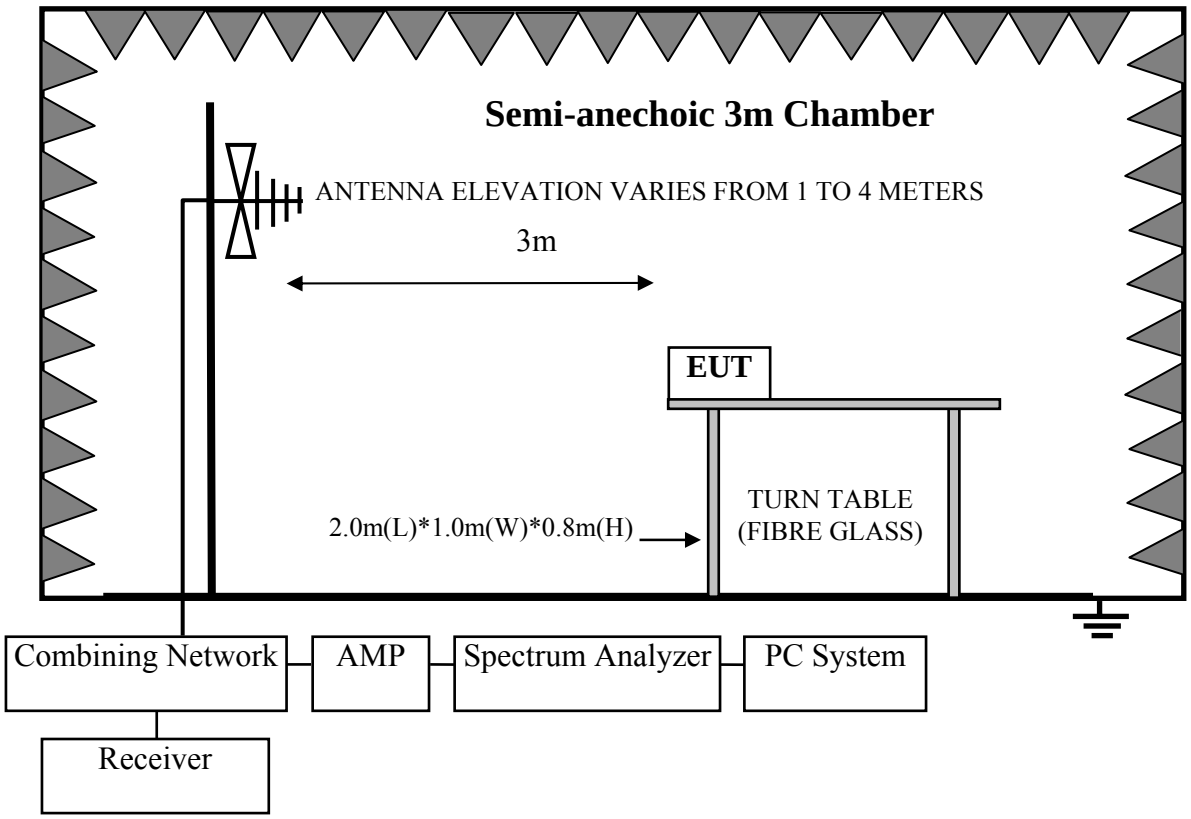
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23, 14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,14	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,14	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,14	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,14	1 Year

Frequency rang: above 1000MHz

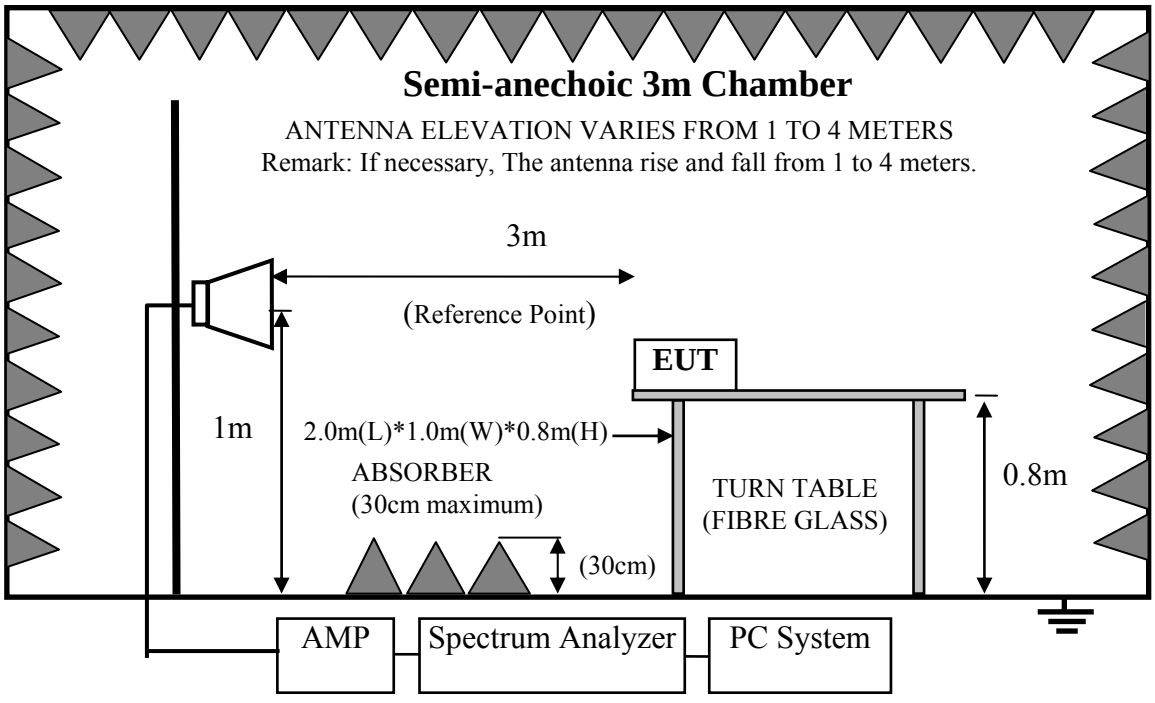
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.02, 14	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Sep.20, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,14	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,14	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark： (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Remote Control (EUT)

Model Number : P2575
Serial Number : N/A

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turned on the power of all equipment.

4.5.3. Let EUT work in Tx mode.

4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

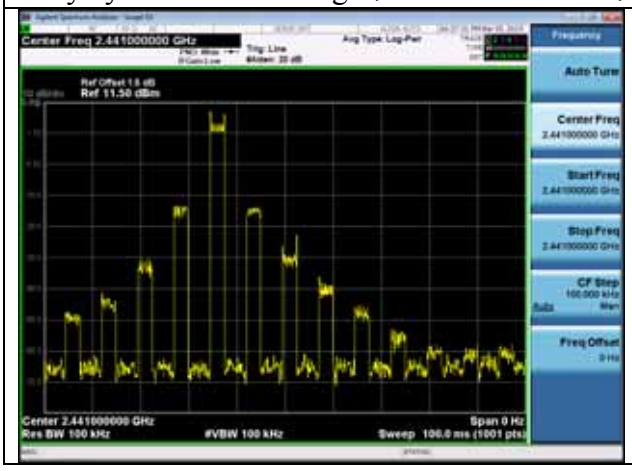
4.7. Radiated Emission Test Results

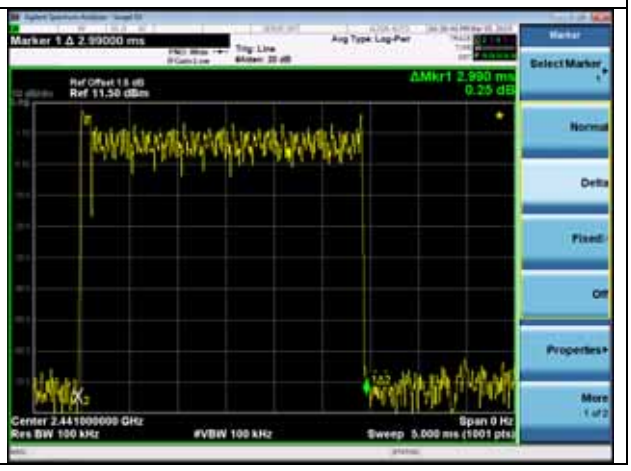
PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.
Note: The duty cycle factor for calculate average level is -30.487 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

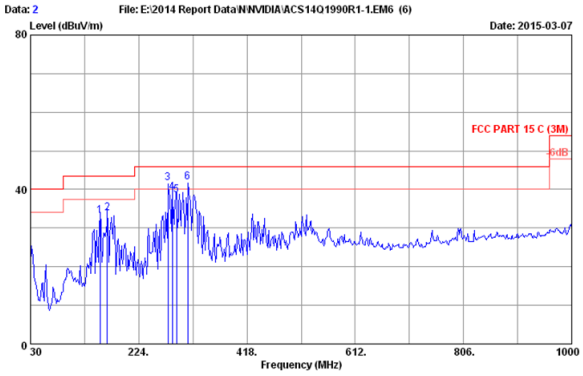
Mode	Emission Level * (dBuv/m)	Limit (dBuv/m)	Conclusion
GFSK	55.06(Peak)	74	Pass
	24.573(Average)	54	Pass
*The worse case result for each mode.			

Duty cycle factor = 20log (Dwell time/100ms) = -30.487





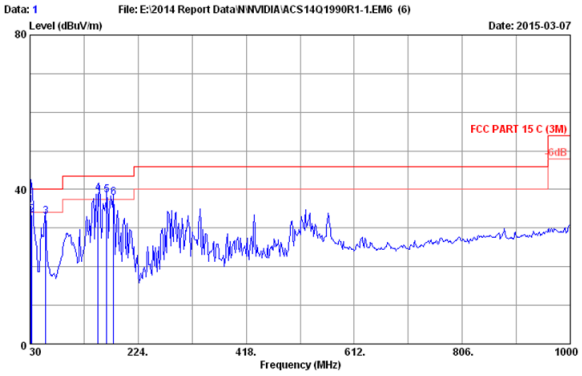
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 26.9°C/50% Engineer : Leo-Li
EUT : Remote Control M/N:P2575
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	154.160	11.18	1.57	20.41	33.16	43.50	10.34	QP
2	167.740	10.23	1.66	22.01	33.90	43.50	9.60	QP
3	275.980	13.50	2.18	26.00	41.68	46.00	4.32	QP
4	284.140	13.70	2.21	23.36	39.27	46.00	6.73	QP
5	291.900	13.80	2.24	22.49	38.53	46.00	7.47	QP
6	312.000	14.20	2.34	25.30	41.84	46.00	4.16	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

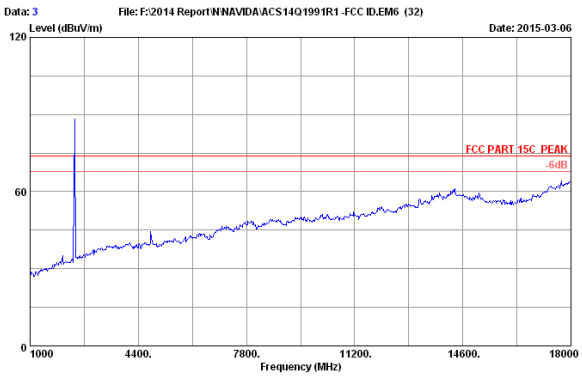


Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 26.9°C/50% Engineer : Leo-Li
EUT : Remote Control M/N:P2575
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : Tx Mode

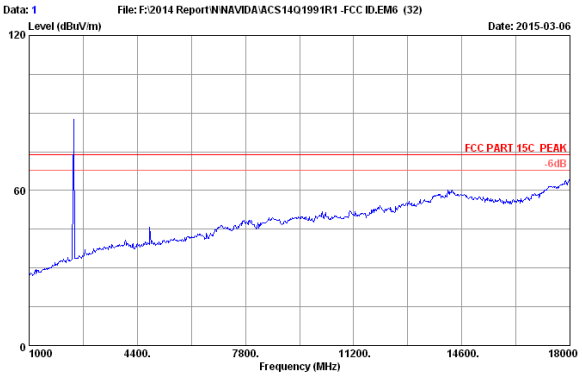
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.660	18.94	0.62	16.39	35.95	40.00	4.05	QP
2	33.270	17.91	0.63	14.81	33.35	40.00	6.65	QP
3	57.840	6.84	0.84	25.40	33.08	40.00	6.92	QP
4	152.030	11.20	1.55	26.30	39.05	43.50	4.45	QP
5	167.980	10.20	1.66	26.70	38.56	43.50	4.94	QP
6	180.350	9.70	1.73	26.50	37.93	43.50	5.57	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

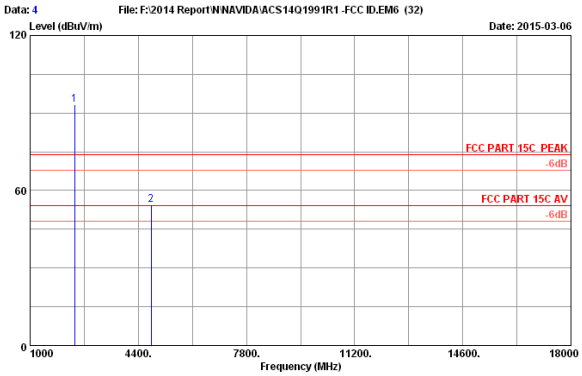
Frequency:1GHz~18GHz
GFSK



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2402MHz Tx Mode
M/N : P2575



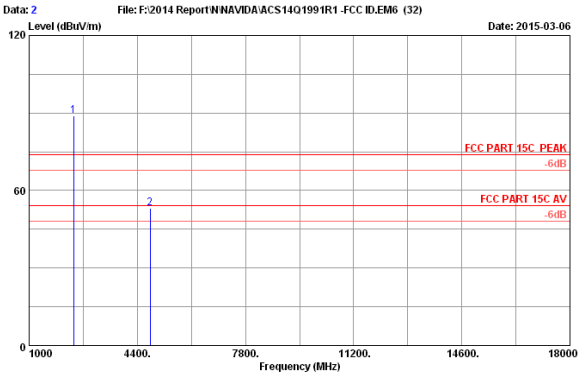
Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2402MHz Tx Mode
M/N : P2575



Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2402MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	95.02	93.30	74.00	-19.30	Peak
2	4804.000	32.85	8.56	35.70	48.87	54.58	74.00	19.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

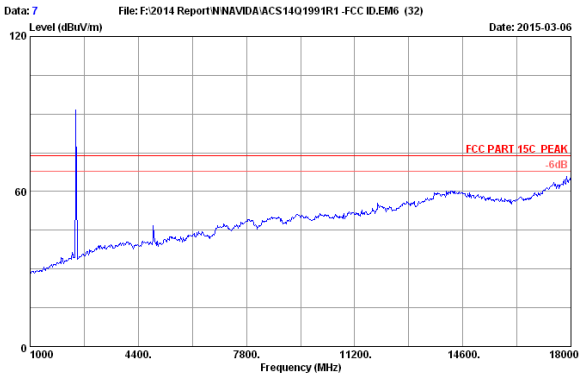


Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2402MHz Tx Mode
M/N : P2575

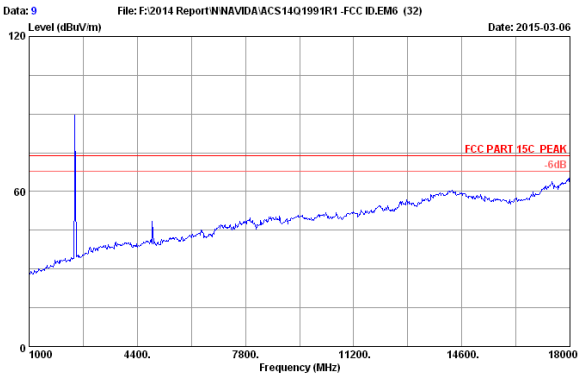
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	90.65	88.93	74.00	-14.93	Peak
2	4804.000	32.85	8.56	35.70	47.44	53.15	74.00	20.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

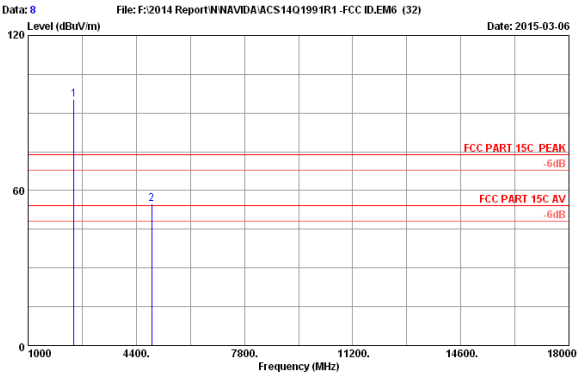
Frequency (MHz)	Polarization	Peak level (dBuv/m)	Duty cycle factor (dB)	AV level (dBuv/m)	Limit (dBuv/m)	Conclusion
4804	HORIZONTAL	54.58	-30.487	24.093	54	Pass



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2441MHz Tx Mode
M/N : P2575



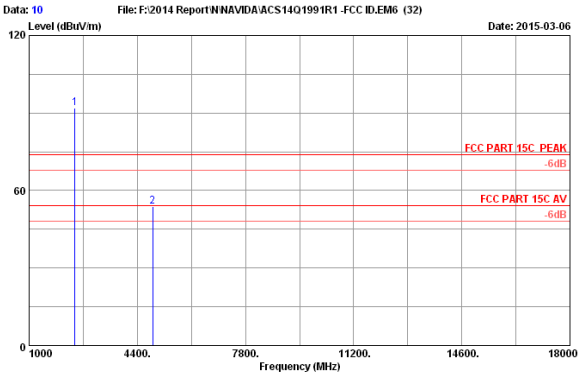
Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2441MHz Tx Mode
M/N : P2575



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2441MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	96.74	95.17	74.00	-21.17	Peak
2	4882.000	32.99	8.64	35.70	48.79	54.72	74.00	19.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

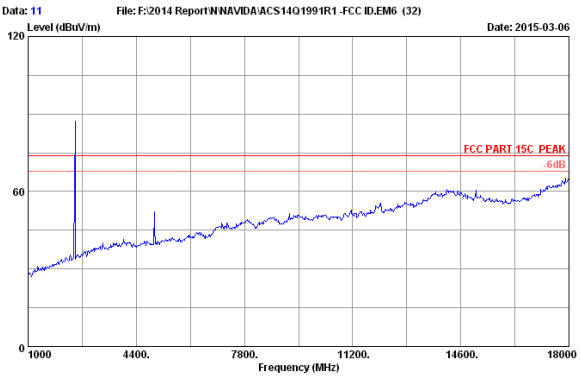


Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2441MHz Tx Mode
M/N : P2575

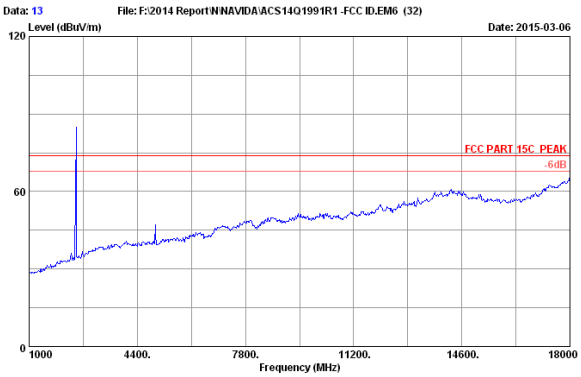
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	93.54	91.97	74.00	-17.97	Peak
2	4882.000	32.99	8.64	35.70	47.96	53.89	74.00	20.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

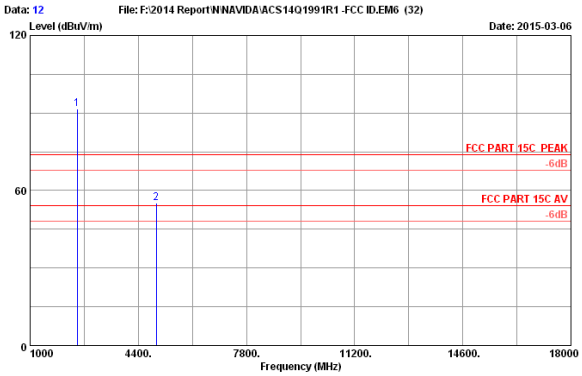
Frequency (MHz)	Polarization	Peak level (dBuv/m)	Duty cycle factor (dB)	AV level (dBuv/m)	Limit (dBuv/m)	Conclusion
4882	HORIZONTAL	54.72	-30.487	24.233	54	Pass



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2480MHz Tx Mode
M/N : P2575



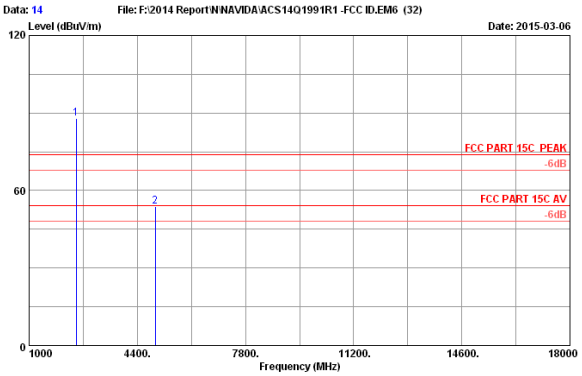
Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2480MHz Tx Mode
M/N : P2575



Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	93.15	91.72	74.00	-17.72	Peak
2	4960.000	33.13	8.72	35.70	48.91	55.06	74.00	18.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



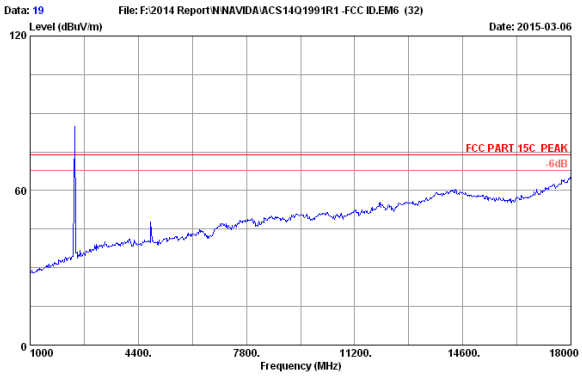
Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	89.35	87.92	74.00	-13.92	Peak
2	4960.000	33.13	8.72	35.70	47.77	53.92	74.00	20.08	Peak

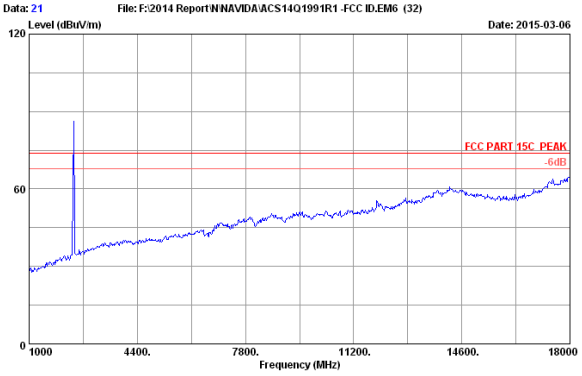
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Polarization	Peak level (dBuv/m)	Duty cycle factor (dB)	AV level (dBuv/m)	Limit (dBuv/m)	Conclusion
4960	HORIZONTAL	55.06	-30.487	24.573	54	Pass

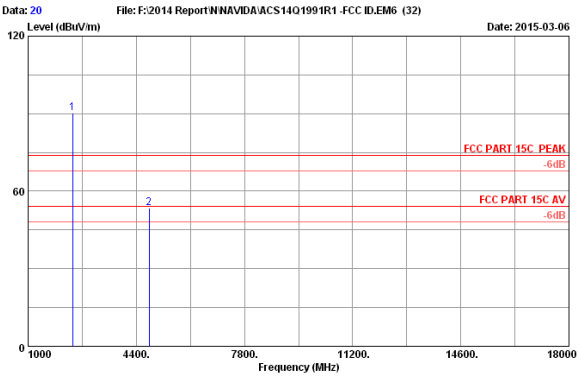
8-DPSK



Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2402MHz Tx Mode
M/N : P2575



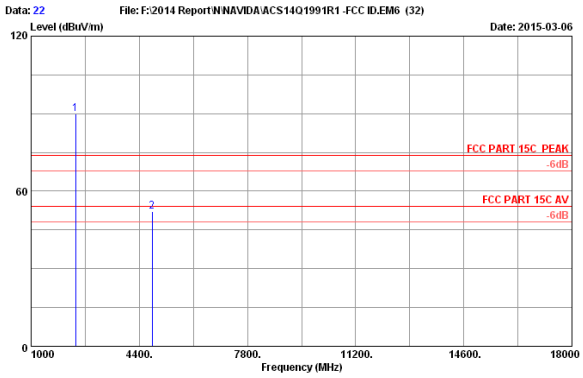
Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2402MHz Tx Mode
M/N : P2575



Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2402MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	91.84	90.12	74.00	-16.12	Peak
2	4804.000	32.85	8.56	35.70	47.63	53.34	74.00	20.66	Peak

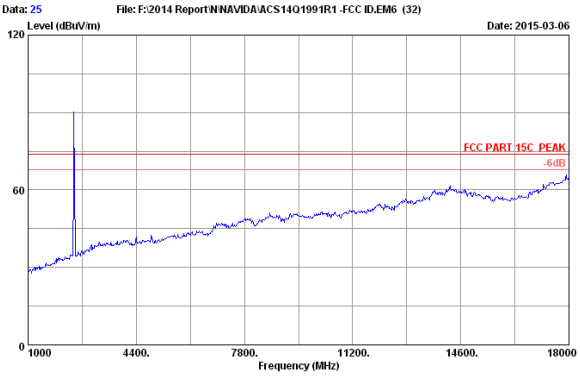
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



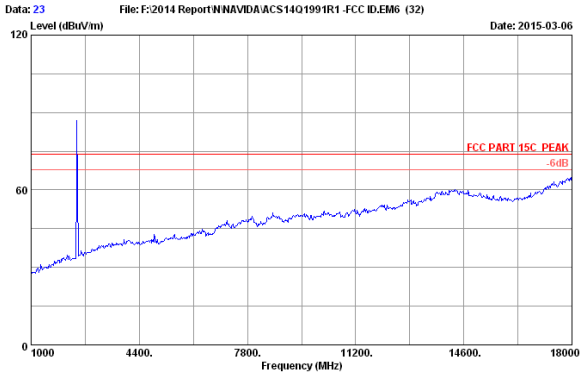
Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2402MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	91.47	89.75	74.00	-15.75	Peak
2	4804.000	32.85	8.56	35.70	46.28	51.99	74.00	22.01	Peak

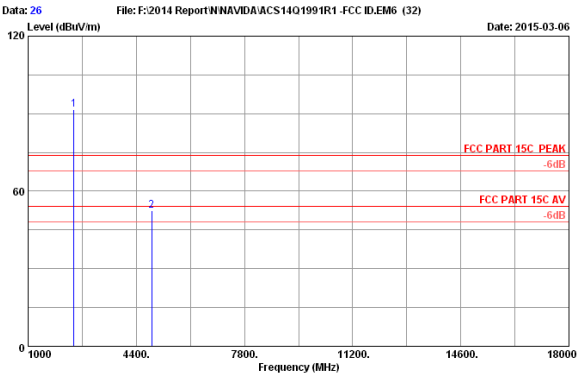
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2441MHz Tx Mode
M/N : P2575



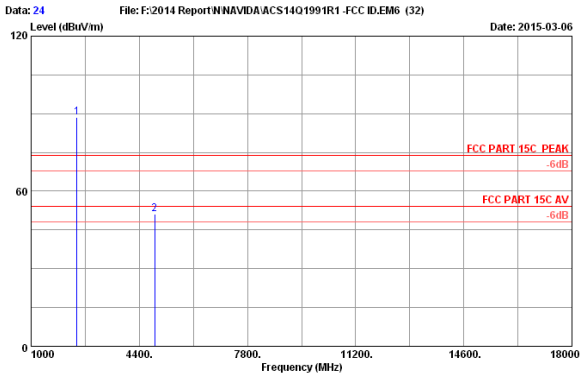
Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2441MHz Tx Mode
M/N : P2575



Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2441MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	93.32	91.75	74.00	-17.75	Peak
2	4882.000	32.99	8.64	35.70	46.52	52.45	74.00	21.55	Peak

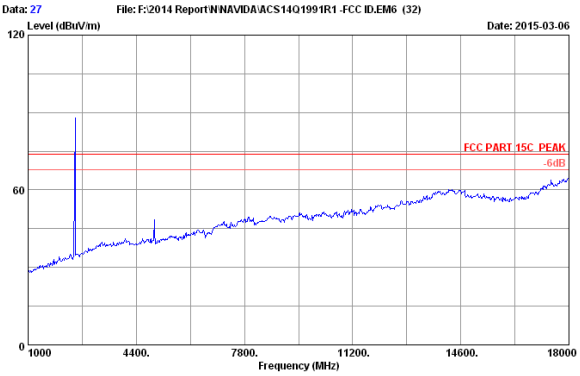
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



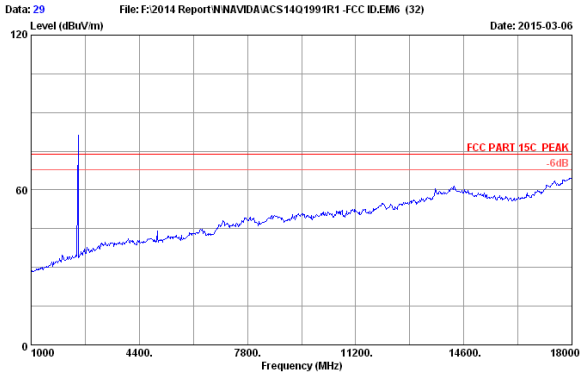
Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2441MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	90.14	88.57	74.00	-14.57	Peak
2	4882.000	32.99	8.64	35.70	45.38	51.31	74.00	22.69	Peak

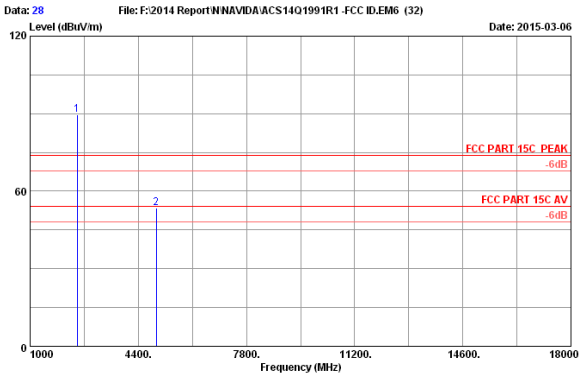
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2480MHz Tx Mode
M/N : P2575



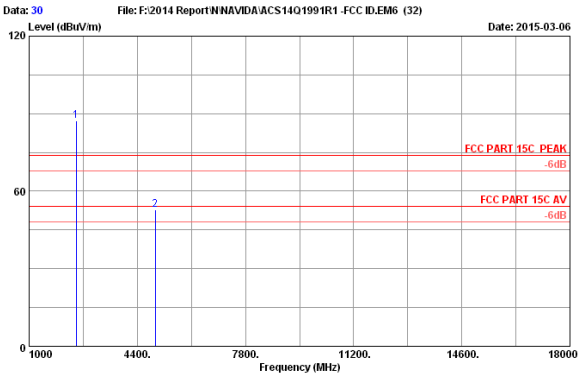
Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2480MHz Tx Mode
M/N : P2575



Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	91.06	89.63	74.00	-15.63	Peak
2	4960.000	33.13	8.72	35.70	47.46	53.61	74.00	20.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	88.72	87.29	74.00	-13.29	Peak
2	4960.000	33.13	8.72	35.70	46.61	52.76	74.00	21.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

5.4. Test result

PASS (The testing data was attached in the next pages.)

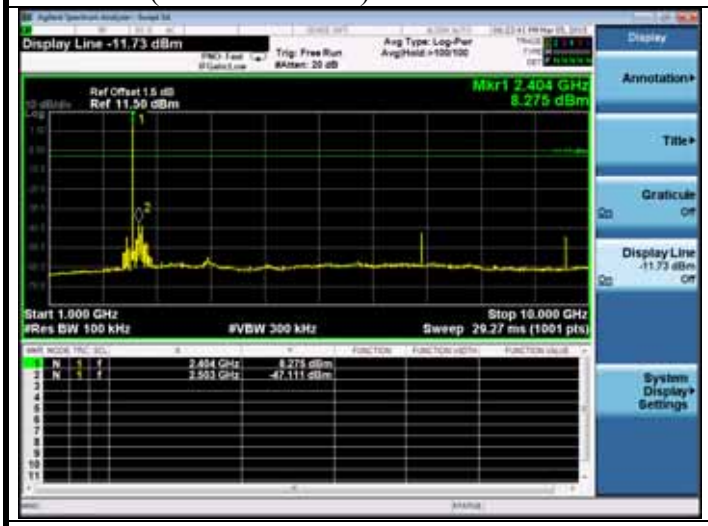
Hopping off

GFSK

2402MHz(30MHz – 1GHz)

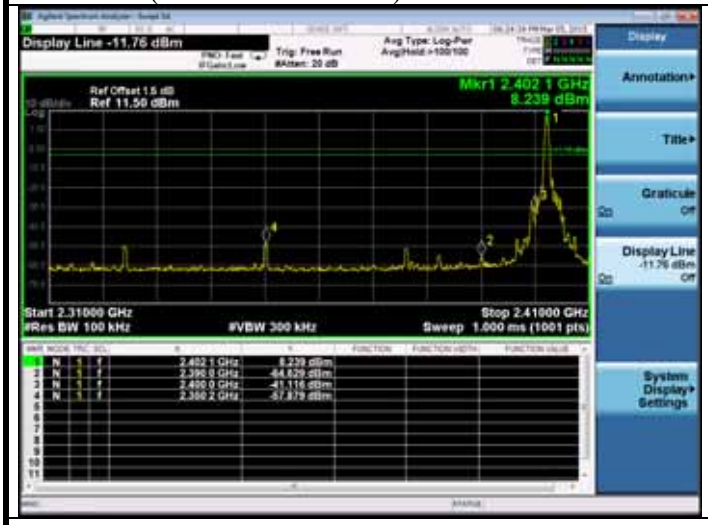
2402MHz(10GHz – 25GHz)

2402MHz(1GHz – 10GHz)

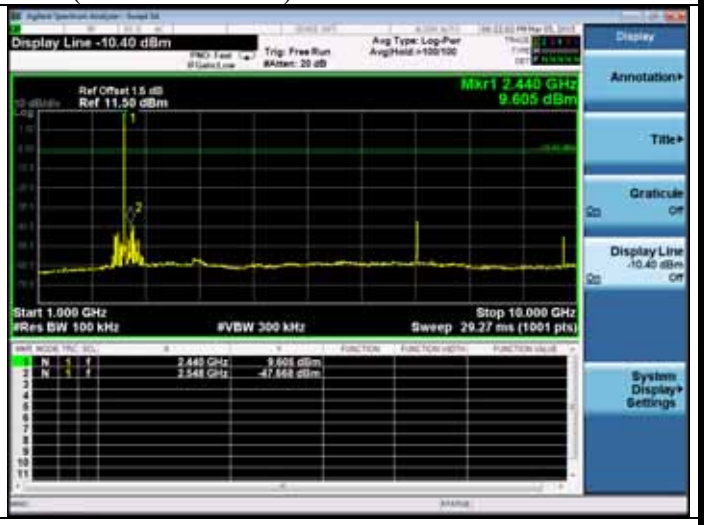


2441(30MHz – 1GHz)

2402MHz(2.3GHz – 2.4GHz)



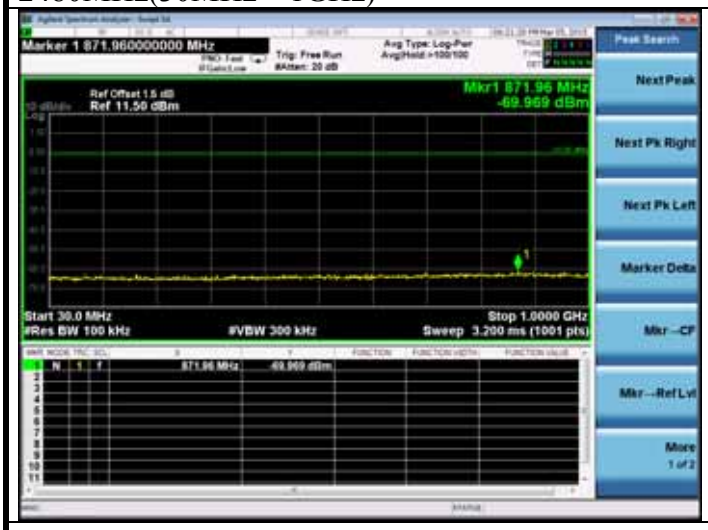
2441(1GHz – 10GHz)



2441(10GHz – 25GHz)

2480MHz(2.4GHz – 2.5GHz)

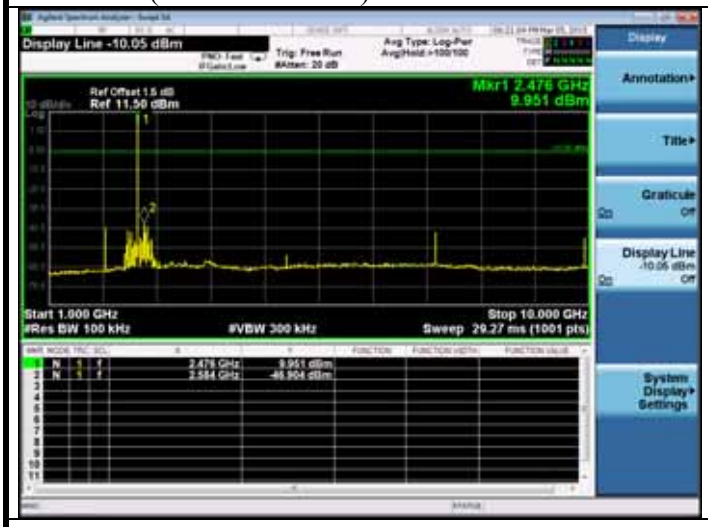
2480MHz(30MHz – 1GHz)



2480MHz(10GHz – 25GHz)

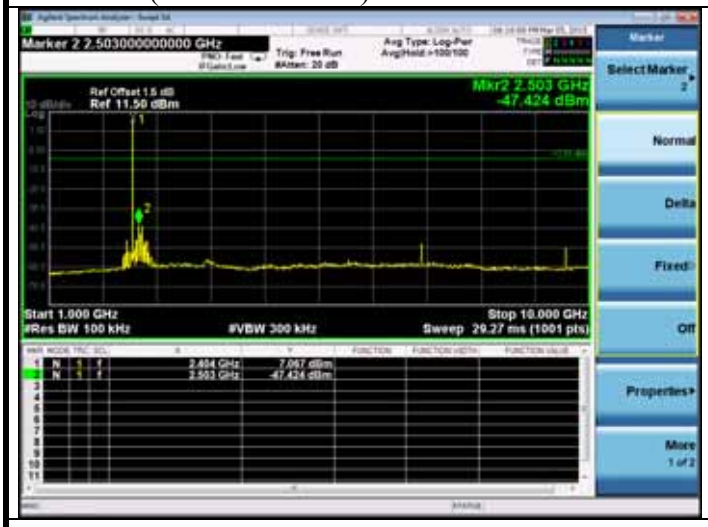
8-DPSK

2480MHz(1GHz – 10GHz)



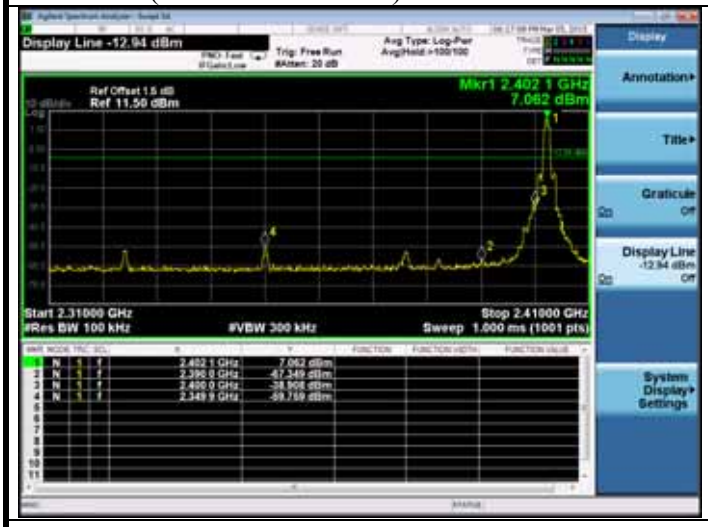
2402MHz(30MHz – 1GHz)

2402MHz(1GHz – 10GHz)



2441MHz (30MHz – 1GHz)

2402MHz(2.3GHz – 2.4GHz)

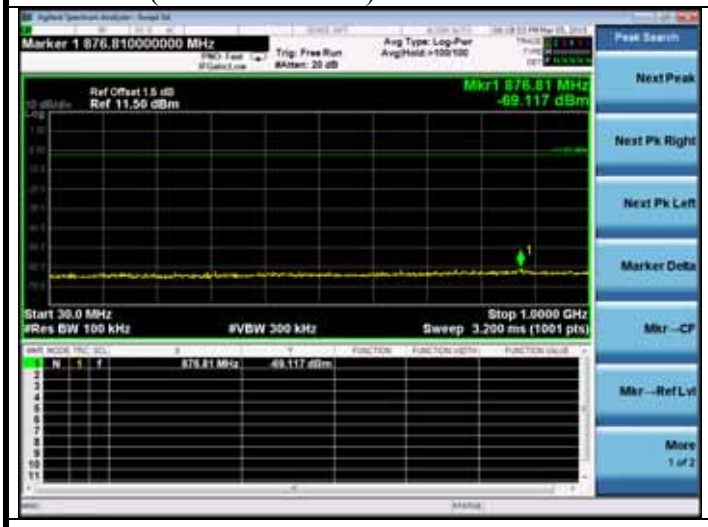


2441MHz(1GHz – 10GHz)

2402MHz(10GHz – 25GHz)

2441MHz(10GHz – 25GHz)

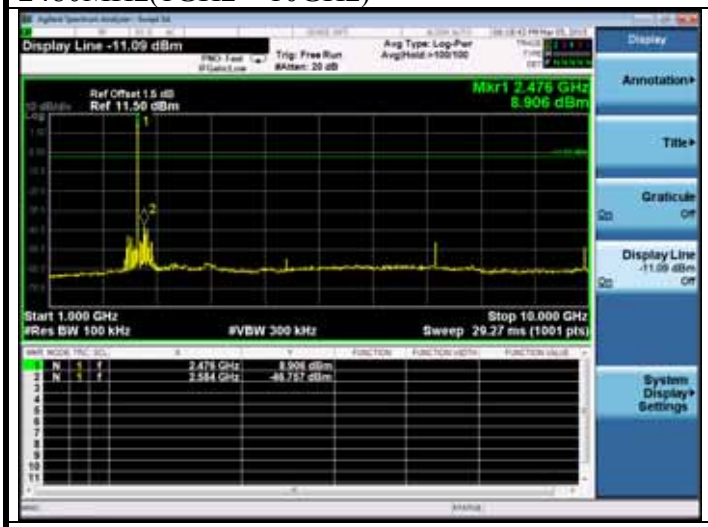
2480MHz(30MHz – 1GHz)



2480MHz(10GHz – 25GHz)

Hopping on

2480MHz(1GHz – 10GHz)



GFSK(2.3GHz – 2.4GHz)

2480MHz(2.4GHz – 2.5GHz)

(2.4GHz – 2.5GHz)

8-DPSK(2.3GHz – 2.4GHz)	(2.4GHz – 2.5GHz)
	

6. 20 DB BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

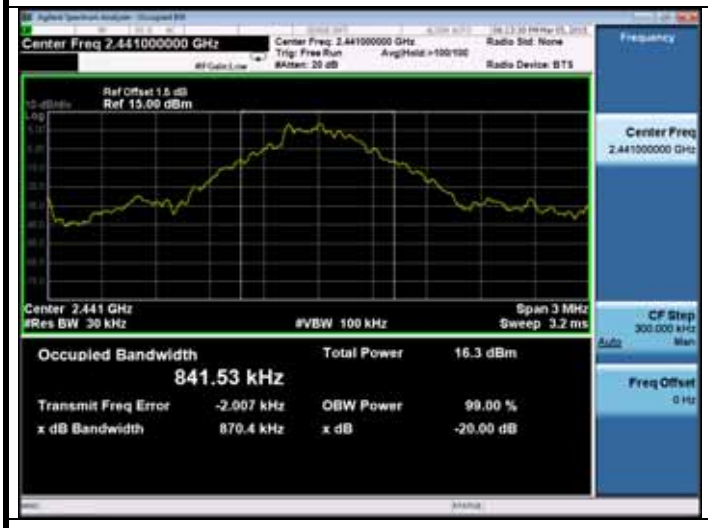
6.2. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

6.3. Test Results

EUT: Remote Control		
M/N: P2575		
Test date: 2015-03-05	Pressure: 101.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Kobe_huang	Test site: RF Site	Temperature：22.2±0.6℃

Test Mode	Frequency (MHz)	20dB bandwidth (KHz)	Limit (KHz)
GFSK	2402	872.5	N/A
	2441	870.4	N/A
	2480	870.6	N/A
8-DPSK	2402	1210	N/A
	2441	1213	N/A
	2480	1212	N/A
Conclusion：PASS			

GFSK	**8-DPSK**
2402MHz	2402MHz
	
2441MHz	2441MHz
	
2480MHz	2480MHz
	

7. CARRIER FREQUENCY SEPARATION TEST

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1Year

7.2.Limit

Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.3.Test Results.

EUT: Remote Control		
M/N: P2575		
Test date: 2015-03-05	Pressure: 101.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Kobe_huang	Test site: RF Site	Temperature：22.2±0.6℃

Test Mode	Channel separation	Limit(KHz)	Conclusion
8-DPSK	1.0MHz	581.67	PASS
GFSK	1.0MHz	808.67	PASS

8. NUMBER OF HOPPING FREQUENCY TEST

8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1Year

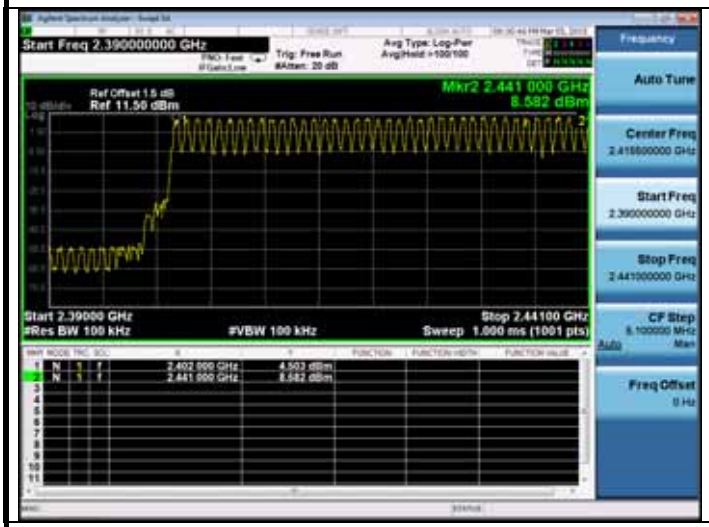
8.2.Limit

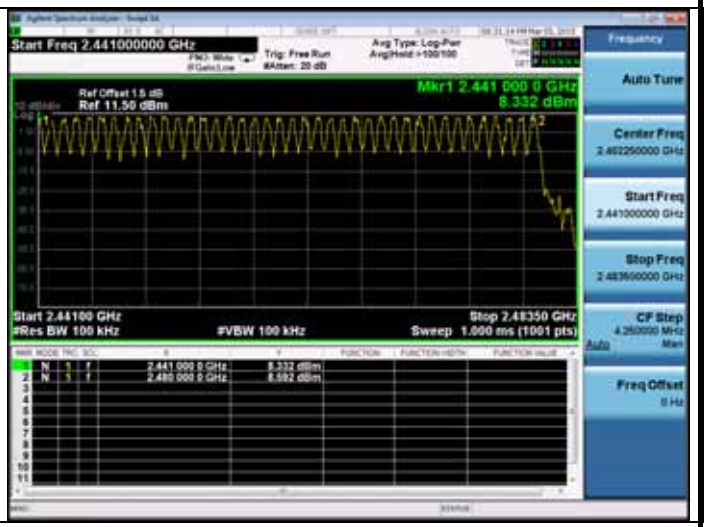
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

8.3.Test Results

EUT: Remote Control		
M/N: P2575		
Test date: 2015-03-05	Pressure: 101.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Kobe_huang	Test site: RF Site	Temperature：22.2±0.6℃

Test Mode	Number of channel	Limit	Conclusion
8-DPSK	79	>=15	PASS
GFSK	79	>=15	PASS





9. DWELL TIME

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1Year

9.2.Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

9.3.Test Results

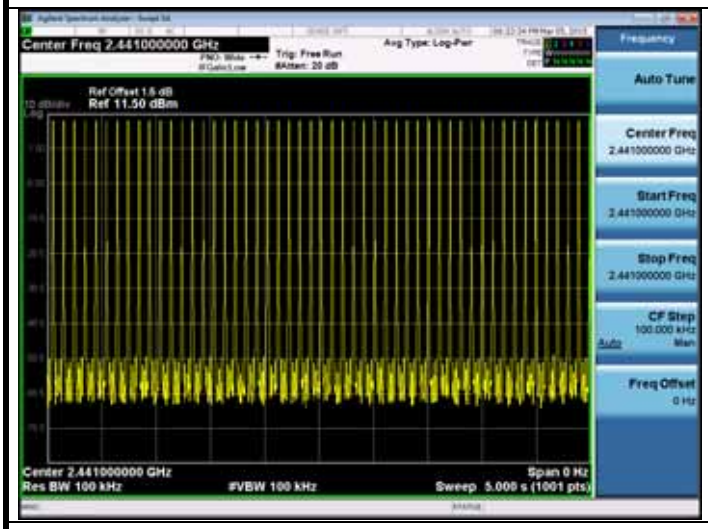
EUT: Remote Control		
M/N: P2575		
Test date: 2015-03-05	Pressure: 101.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Kobe_huang	Test site: RF Site	Temperature：22.2±0.6℃

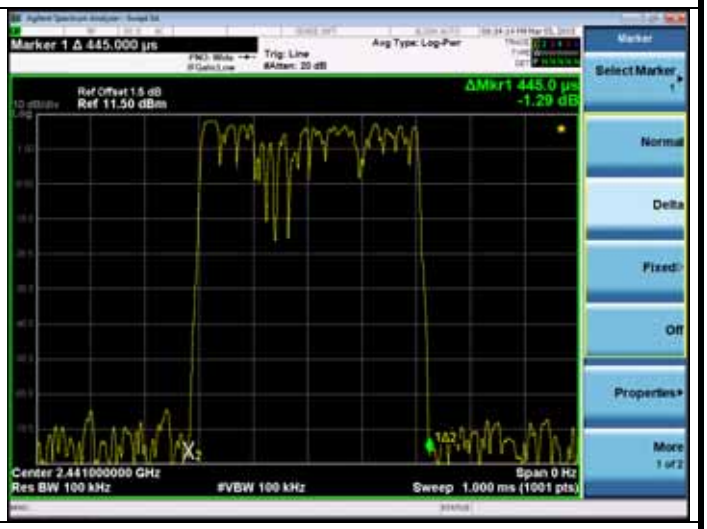
Mode		dwell time	Limit	Conclusion
GFSK	DH1	50hops/5s*0.4*79chanels*0.445ms =140.62ms	<400ms	PASS
	DH3	25hops/5s*0.4*79chanels*1.704ms =269.23ms	<400ms	PASS
	DH5	17hops/5s*0.4*79chanels*2.970ms =319.09ms	<400ms	PASS
8-DPSK	DH1	52hops/5s*0.4*79chanels*0.468ms =153.80ms	<400ms	PASS
	DH3	25hops/5s*0.4*79chanels*1.728ms =273.02ms	<400ms	PASS
	DH5	16hops/5s*0.4*79chanels*2.990ms =302.35ms	<400ms	PASS

Note: All the lower levels were signaled from receiver and should not be considered in here.

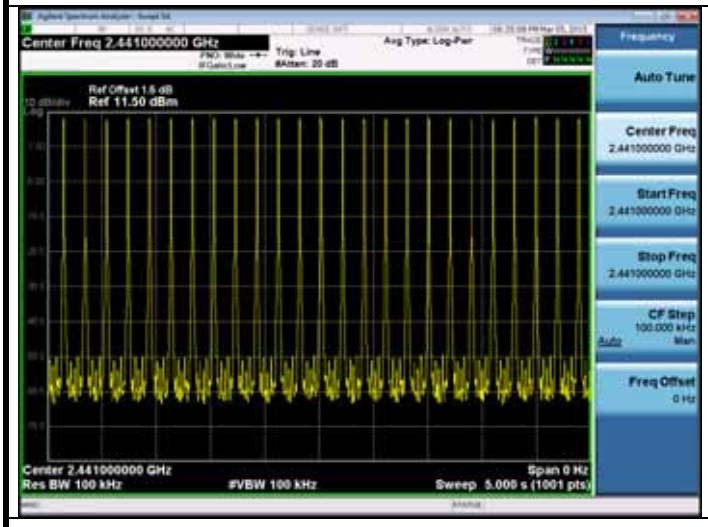
GFSK

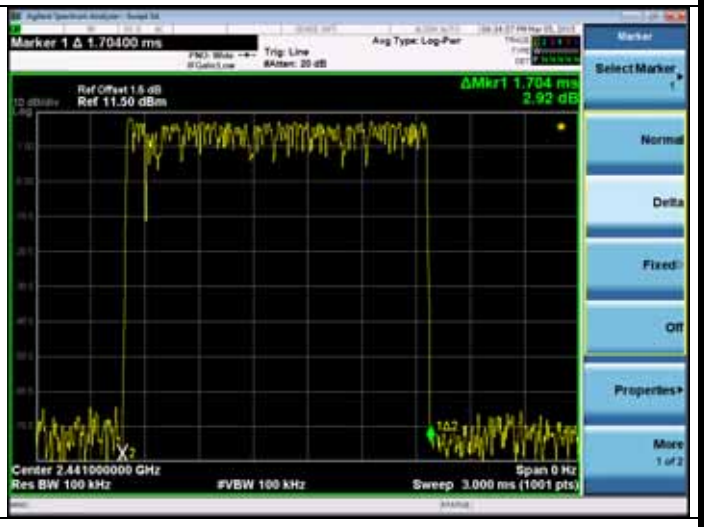
DH 1



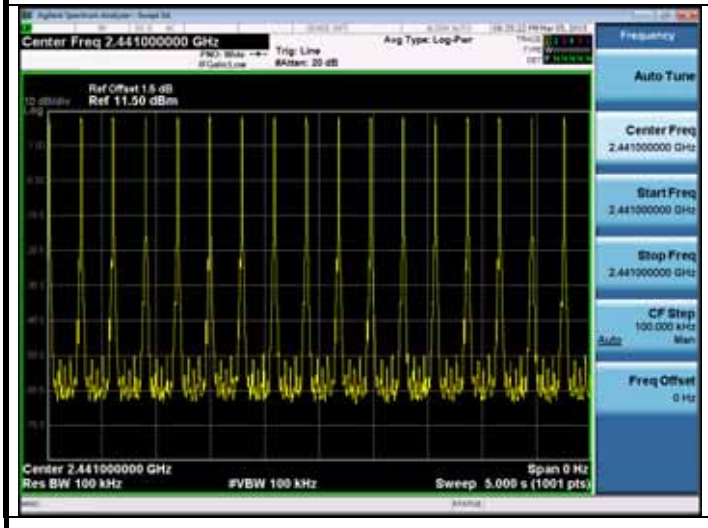


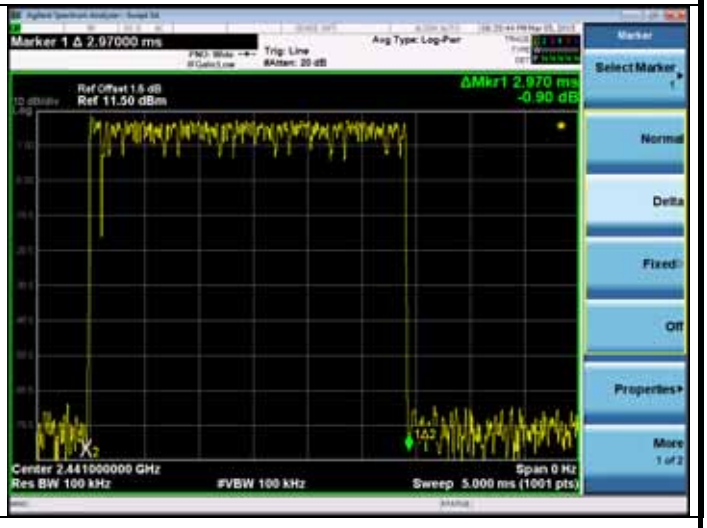
DH 3





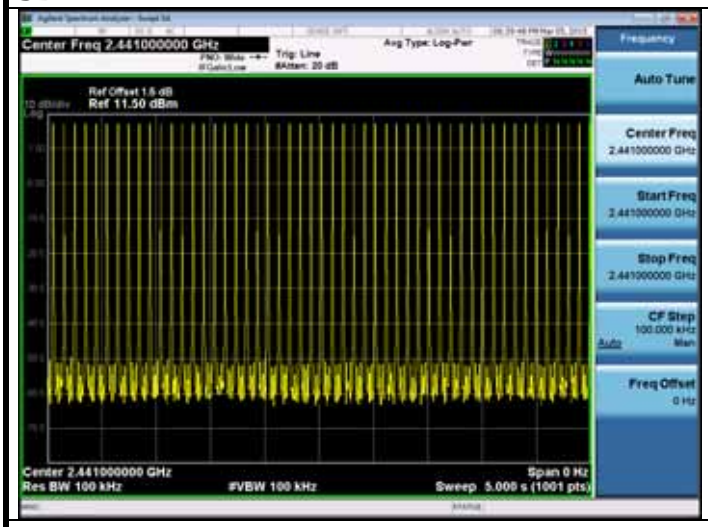
DH 5



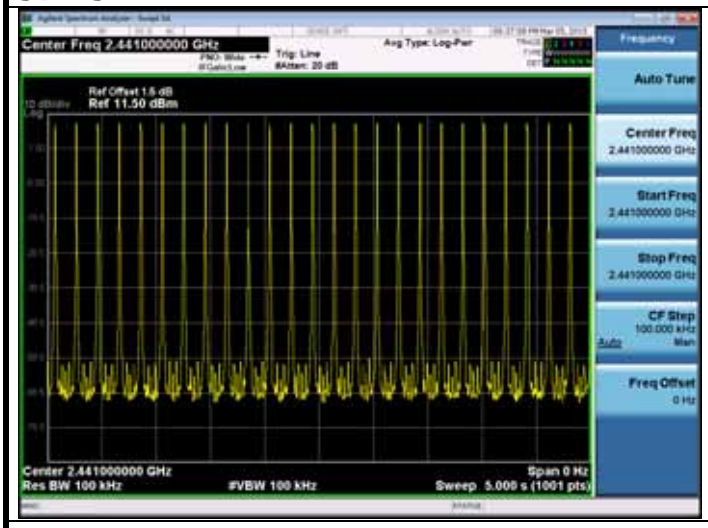


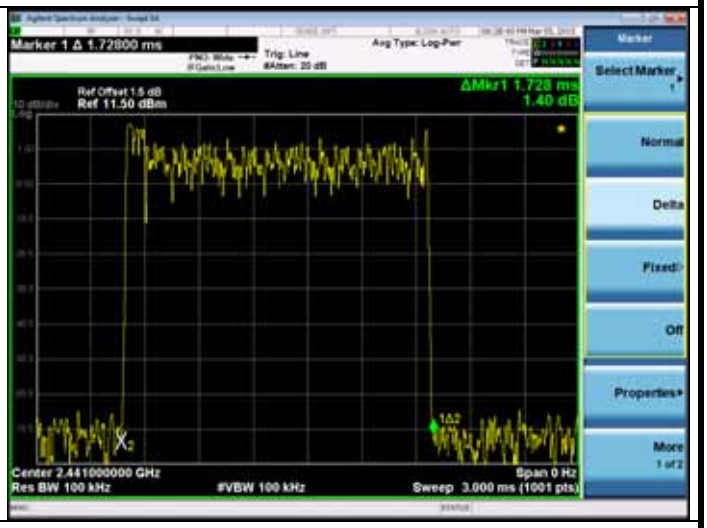
8-DPSK

3DH 1

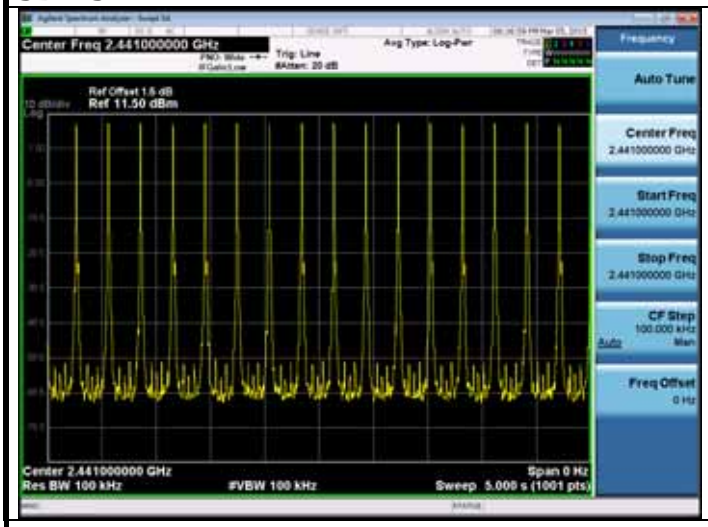


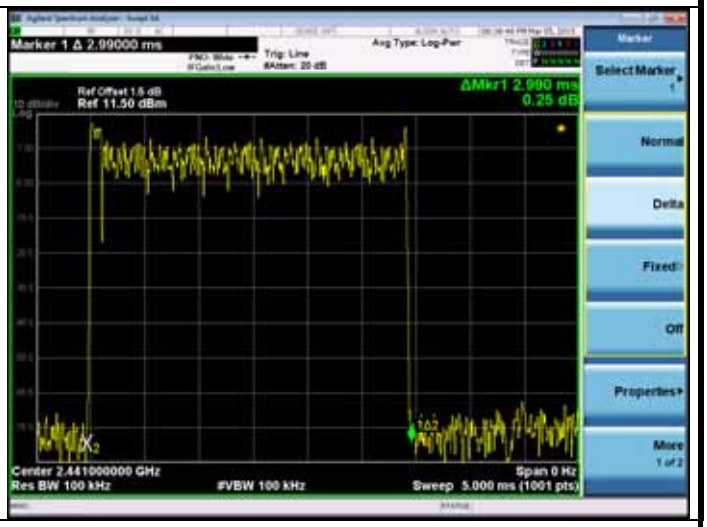
3DH 3





3DH 5





10. MAXIMUM PEAK OUTPUT POWER TEST

10.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr. 28,14	1Year
3.	Power sensor	Anritsu	MA2491A	0033005	Apr. 28,14	1Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,14	1Year

10.2. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.

10.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power directly.

10.4. Test Results

EUT: Remote Control		
M/N: P2575		
Test date: 2015-3-5	Pressure: 102.5±1.0 kpa	Humidity: 51.4±1.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:21.2±1.0 ℃

Test Mode	Frequency (MHz)	Max. Conducted Output Power (dBm)	Limit (dBm)
GFSK	2402	8.410	30
	2441	9.577	30
	2480	9.970	30
8-DPSK	2402	7.979	30
	2441	9.190	30
	2480	9.542	30

Conclusion: PASS

11. BAND EDGE COMPLIANCE TEST

11.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Amp	HP	8449B	3008A02495	Apr. 28,14	1 Year
2.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,14	1 Year
4.	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,14	1 Year

11.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

11.3. Test Produce

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz） from the band-edge use below produce:

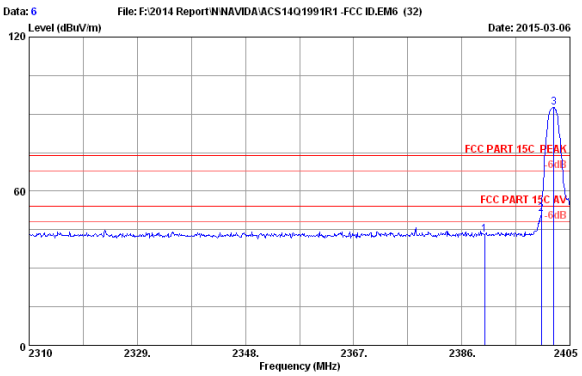
1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
   (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
   (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

11.4. Test Results

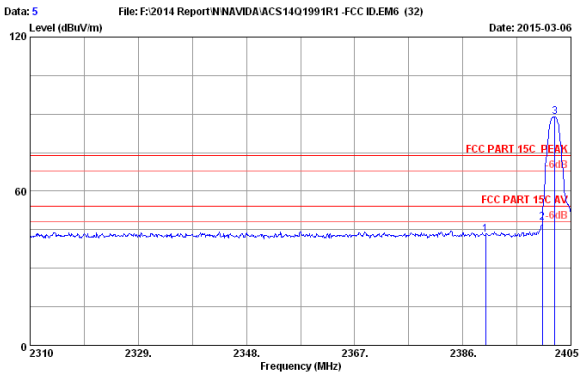
Pass (The testing data was attached in the next pages.)
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2402MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.76	43.00	74.00	31.00	Peak
2	2400.000	28.18	5.80	35.70	52.80	51.08	74.00	22.92	Peak
3	2402.150	28.18	5.80	35.70	94.28	92.56	74.00	-18.56	Peak

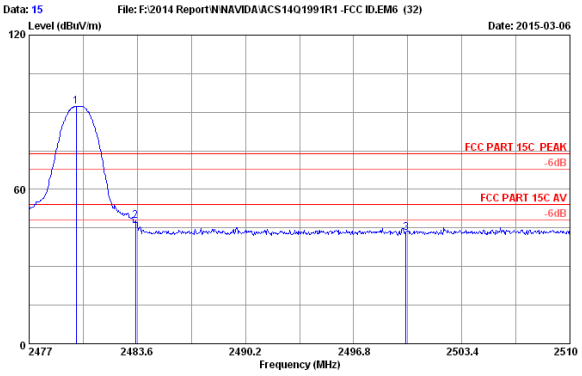
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2402MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.77	43.01	74.00	30.99	Peak
2	2400.000	28.18	5.80	35.70	49.37	47.65	74.00	26.35	Peak
3	2402.150	28.18	5.80	35.70	90.74	89.02	74.00	-15.02	Peak

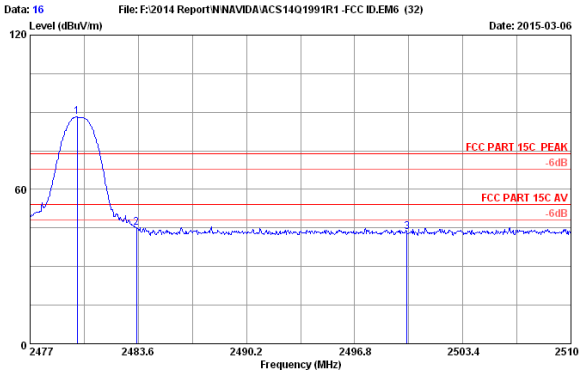
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.871	28.36	5.91	35.70	93.83	92.40	74.00	-18.40	Peak
2	2483.500	28.36	5.92	35.70	49.35	47.93	74.00	26.07	Peak
3	2500.000	28.40	5.94	35.70	44.41	43.05	74.00	30.95	Peak

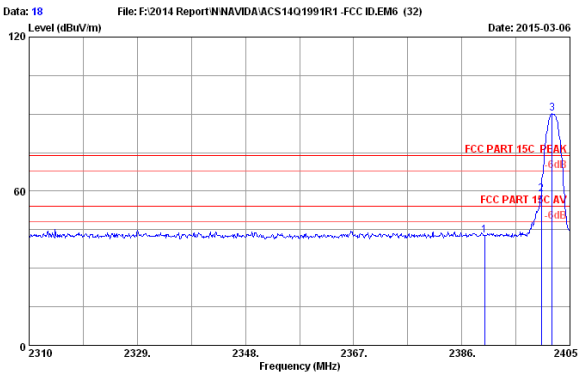
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : GFSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.871	28.36	5.91	35.70	89.57	88.14	74.00	-14.14	Peak
2	2483.500	28.36	5.92	35.70	46.57	45.15	74.00	28.85	Peak
3	2500.000	28.40	5.94	35.70	44.77	43.41	74.00	30.59	Peak

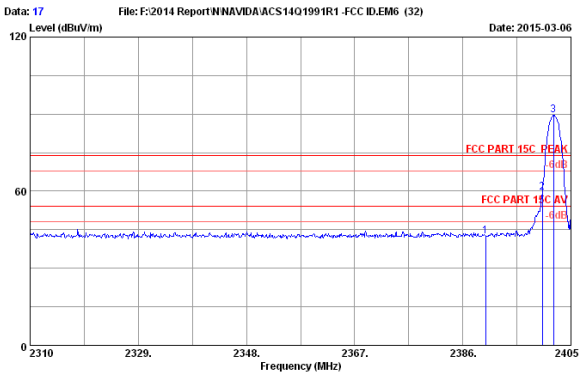
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2402MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.53	42.77	74.00	31.23	Peak
2	2400.000	28.18	5.80	35.70	60.57	58.85	74.00	15.15	Peak
3	2401.865	28.18	5.80	35.70	91.85	90.13	74.00	-16.13	Peak

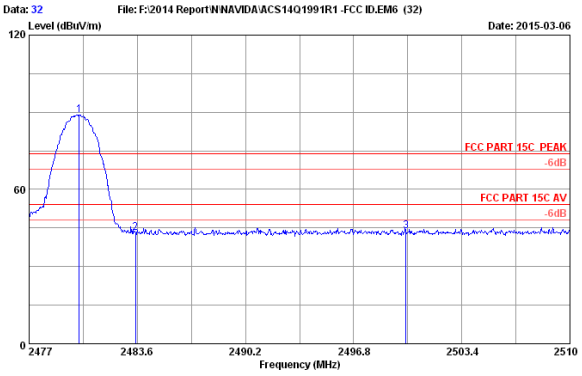
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2402MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.08	42.32	74.00	31.68	Peak
2	2400.000	28.18	5.80	35.70	61.31	59.59	74.00	14.41	Peak
3	2401.960	28.18	5.80	35.70	91.45	89.73	74.00	-15.73	Peak

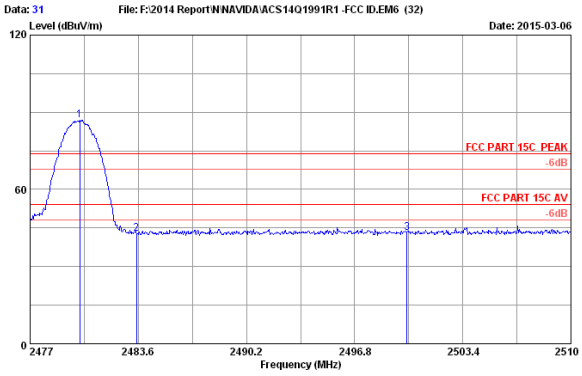
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.069	28.36	5.91	35.70	90.47	89.04	74.00	-15.04	Peak
2	2483.500	28.36	5.92	35.70	44.38	42.96	74.00	31.04	Peak
3	2500.000	28.40	5.94	35.70	45.19	43.83	74.00	30.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Kobe
EUT : Remote Control
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8-DPSK 2480MHz Tx Mode
M/N : P2575

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	88.35	86.92	74.00	-12.92	Peak
2	2483.500	28.36	5.92	35.70	44.17	42.75	74.00	31.25	Peak
3	2500.000	28.40	5.94	35.70	44.43	43.07	74.00	30.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

12. TENNA REQUIREMENT

12.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are Dipole antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is -0.05dBi.

13. DEVIATION TO TEST SPECIFICATIONS

[NONE]