



FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

DELL Inc.

Dell Cast Adapter

| Brand Name | Model No. |
|------------|-----------|
| DELL       | BEL01     |

FCC ID: E2K-BEL01

Prepared for : DELL Inc.

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Report Number : ACS-F14186

Date of Test : May.22~Jun.25, 2014

Date of Report : Jul.30, 2014

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**TEST REPORT CERTIFICATION**

Applicant : DELL Inc.  
Manufacturer : DELL Inc.  
EUT Description : Dell Cast Adapter  
FCC ID : E2K-BEL01

|                              |                    |                    |
|------------------------------|--------------------|--------------------|
| (A) MODEL NO.&<br>BRAND NAME | Brand Name<br>DELL | Model No.<br>BEL01 |
|------------------------------|--------------------|--------------------|

(B) SERIAL NO. : N/A  
(C) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

Tested for comply with:  
FCC Rules and Regulations Part 15 Subpart C: 2013  
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 : May.22~Jun.25, 2014 Report of date: Jul.30, 2014

Prepared by : Sonia Lee / Assistant Manager  
Reviewed by : Sunny Lu / Assistant Manager

Sonia Lee / Assistant Manager

AUDIX<sup>®</sup> 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

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<br>ANSI C63.10 :2009                           | PASS    |
| Radiated Emission Test                     | FCC Part 15: 15.209<br>FCC Part 15: 15.247(d)<br>ANSI C63.10 :2009 | PASS    |
| Conducted Spurious Emissions               | FCC Part 15: 15.247(a)(1)<br>ANSI C63.10 :2009                     | PASS    |
| Carrier Frequency Separation Test          | FCC Part 15: 15.247(a)(1)<br>ANSI C63.10 :2009                     | PASS    |
| 20dB Bandwidth Test                        | FCC Part 15: 15.215<br>ANSI C63.10 :2009                           | PASS    |
| Number Of Hopping Frequency Test           | FCC Part 15: 15.247(a)(1)(iii)<br>ANSI C63.10 :2009                | PASS    |
| Dwell Time Test                            | FCC Part 15: 15.247(a)(1)(iii)<br>ANSI C63.10 :2009                | PASS    |
| Maximum Peak Output Power Test             | FCC Part 15: 15.247(b)(1)\<br>ANSI C63.10 :2009                    | PASS    |
| Band Edge Compliance Test                  | FCC Part 15: 15.247(d)<br>ANSI C63.10 :2009                        | PASS    |
| N/A is an abbreviation for Not Applicable. |                                                                    |         |

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Product Name : Dell Cast Adapter

|                               |            |           |
|-------------------------------|------------|-----------|
| Model Number&<br>Brand Name : | Brand Name | Model No. |
|                               | DELL       | BEL01     |

FCC ID : E2K-BEL01

Radio : Bluetooth V2.1+EDR; Bluetooth V4.0; IEEE802.11 a/b/g/n/ac

Operation Frequency : IEEE 802.11a: 5180MHz—5240MHz, 5745MHz—5825MHz  
 IEEE 802.11ac VHT20: 5180MHz—5240MHz,5745MHz—5825MHz  
 IEEE 802.11ac VHT40: 5190MHz—5230MHz,5755MHz—5795MHz  
 IEEE 802.11ac VHT80: 5210MHz, 5775MHz  
 IEEE 802.11b: 2412MHz—2462MHz  
 IEEE 802.11g: 2412MHz—2462MHz  
 IEEE802.11nHT20: 2412MHz—2462MHz,5180MHz—5240MHz,  
 5745MHz—5825MHz  
 IEEE802.11nHT40: 5190MHz—5230MHz,5755MHz—5795MHz  
 Bluetooth: 2402-2480MHz

Modulation Technology : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)  
 IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK)  
 IEEE 802.11ac VHT20, VHT40, VHT80: OFDM (16QAM, 64QAM, 256QAM, QPSK, BPSK)  
 IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)  
 Bluetooth V2.1+EDR: GFSK,  $\pi/4$ DQPSK,8-DPSK  
 Bluetooth V4.0: GFSK

Antenna Assembly : PIFA Antenna,  
 Gain& type 2.4GHz: 3.61dBi(max)  
 5GHz (Band 1): 2.04dBi(max)  
 5GHz (Band 4): 2.52dBi(max)

USB Cable : Shielded, Detachable, 1.8m

Applicant : DELL Inc.  
 One Dell Way, Round Rock, Texas 78682,United States.

Manufacturer : DELL Inc.  
 One Dell Way, Round Rock, Texas 78682,United States.

Date of Test : May.22~Jun.25, 2014

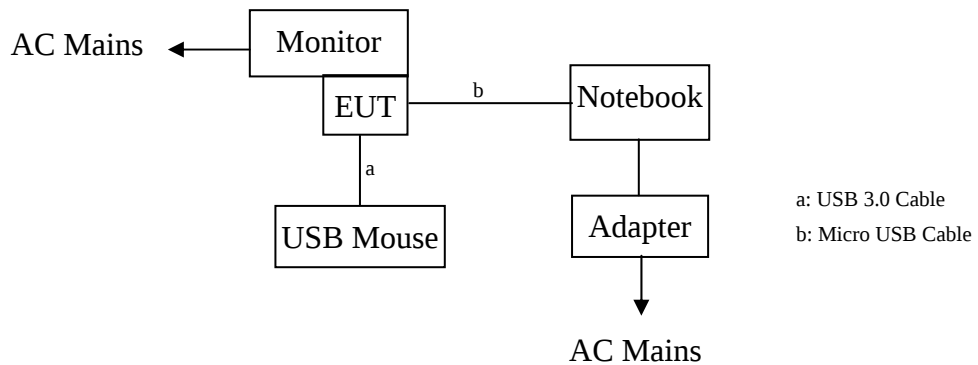
Date of Receipt : May.20, 2014

Sample Type : Prototype production

## 2.2. Tested Supporting System Details

| No. | Description | ACS No.                                                                                                                                                      | Manufacturer | Model    | Serial Number                    | Approved type                                                                                      |
|-----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------------------------------|----------------------------------------------------------------------------------------------------|
| 1.  | USB Mouse   | ACS-EMC-M03R                                                                                                                                                 | Dell         | M056UO   | 512023253                        | <input checked="" type="checkbox"/> FCC ID<br><input checked="" type="checkbox"/> BSMI ID          |
|     |             | Cable: Shielded, Undetectable, 4.0m                                                                                                                          |              |          |                                  |                                                                                                    |
| 2.  | Monitor     | ACS-EMC-LM08<br>R                                                                                                                                            | Dell         | 3008WFPt | CN-OG501H-<br>7444S-06P-08<br>3L | <input checked="" type="checkbox"/> FCC ID<br><input checked="" type="checkbox"/> BSMI ID          |
|     |             | Data Cable (VGA): Shielded, Detachable, 2.0m                                                                                                                 |              |          |                                  |                                                                                                    |
| 3.  | Notebook    | N/A                                                                                                                                                          | DELL         | PP09S    | N/A                              | <input checked="" type="checkbox"/> FCC DoC<br><input checked="" type="checkbox"/> BSMI ID: R41108 |
|     |             | Power Cord: Unshielded, Detachable, 1.8m<br>Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00<br>Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core) |              |          |                                  |                                                                                                    |

## 2.3. Block Diagram of connection between EUT and simulators



(EUT: Dell Cast Adapter)

## 2.4. Test information

The test software “bluesuite.exe” 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<br>GFSK<br>modulation                   | 1                | Low :CH 0    | 2402            |
|                                                 | 1                | Middle: CH39 | 2441            |
|                                                 | 1                | High: CH78   | 2480            |
| Tx Mode<br>8-DPSK<br>modulation                 | 3                | Low :CH 0    | 2402            |
|                                                 | 3                | Middle: CH39 | 2441            |
|                                                 | 3                | High: CH78   | 2480            |

Note:  $\pi/4$ DQPSK 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: Feb.22, 2015

#### 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)

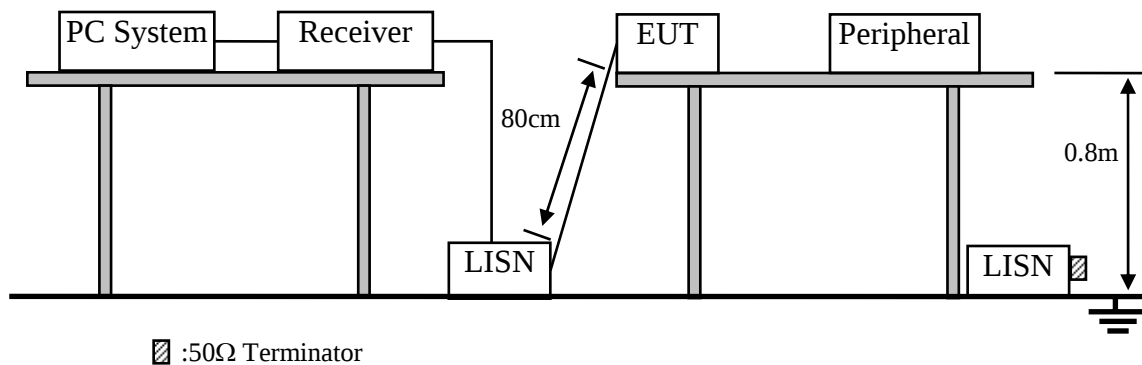
| Test Item                                                         | Uncertainty               | Memo                       |
|-------------------------------------------------------------------|---------------------------|----------------------------|
| Uncertainty for Conducted emission test in No. 1 Conduction       | $\pm 3.10$ dB             | 150KHz to 30MHz            |
| Uncertainty for Radiated Emission test in 3m chamber              | $\pm 3.22$ dB             | 30~200MHz, Polarization: H |
|                                                                   | $\pm 3.23$ dB             | 30~200MHz, Polarization: V |
|                                                                   | $\pm 3.49$ dB             | 200M~1GHz, Polarization: H |
|                                                                   | $\pm 3.39$ dB             | 200M~1GHz, Polarization: V |
| Uncertainty for Radiated Emission test in 3m chamber (1GHz-18GHz) | $\pm 4.97$ dB             | 1~6GHz, Distance: 3m       |
|                                                                   | $\pm 4.99$ dB             | 6~18GHz, Distance: 3m      |
| Uncertainty for Radiated Spurious Emission test                   | $\pm 3.57$ dB             |                            |
| Uncertainty for Conducted Spurious emission test                  | $\pm 2.00$ dB             |                            |
| Uncertainty for Output power test                                 | $\pm 0.73$ dB             |                            |
| Uncertainty for Power density test                                | $\pm 2.00$ dB             |                            |
| Uncertainty for Temperature and humidity test for ETSI            | $\pm 3\%$                 |                            |
|                                                                   | $\pm 0.6^{\circ}\text{C}$ |                            |
| Uncertainty for Radio Frequency                                   | $\pm 7 \times 10^{-8}$    |                            |
| Uncertainty for Bandwidth                                         | $\pm 83$ KHz              |                            |
| RF level uncertainty for given BER                                | $\pm 0.2$ dB              |                            |

### 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.31, 13 | 1 Year        |
| 3.   | L.I.S.N.#1        | Rohde & Schwarz | ESH2-Z5   | 100429        | Jan.22, 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# | Jan.22, 14 | 1Year         |
| 8.   | Coaxial Switch    | Anritsu         | MP59B     | M50564        | Apr. 28,14 | 1 Year        |
| 9.   | Pulse Limiter     | Rohde & Schwarz | ESH3-Z2   | 101838        | Jan.22, 14 | 1 Year        |

#### 3.2. Block Diagram of Test Setup



#### 3.3. Power Line Conducted Emission Test Limits

| Frequency       | Maximum RF Line Voltage    |                         |
|-----------------|----------------------------|-------------------------|
|                 | Quasi-Peak Level<br>dB(μV) | Average Level<br>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. Dell Cast Adapter (EUT)

Model Number : BEL01  
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

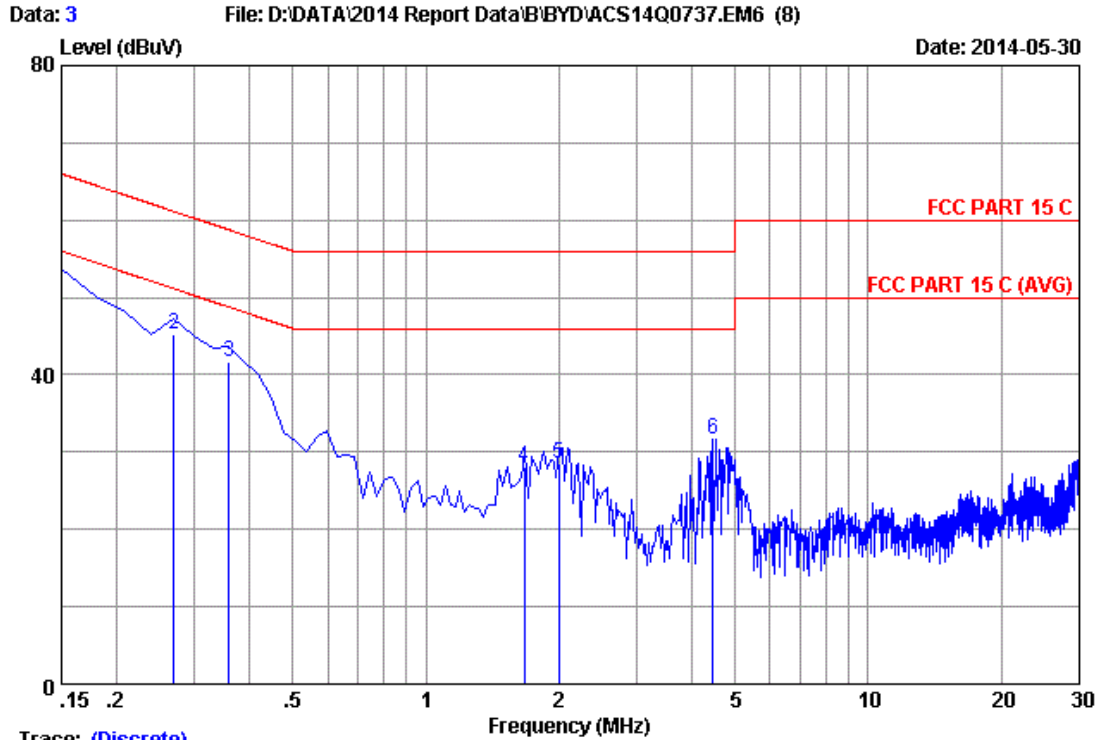
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). 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 C63.4-2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

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.)



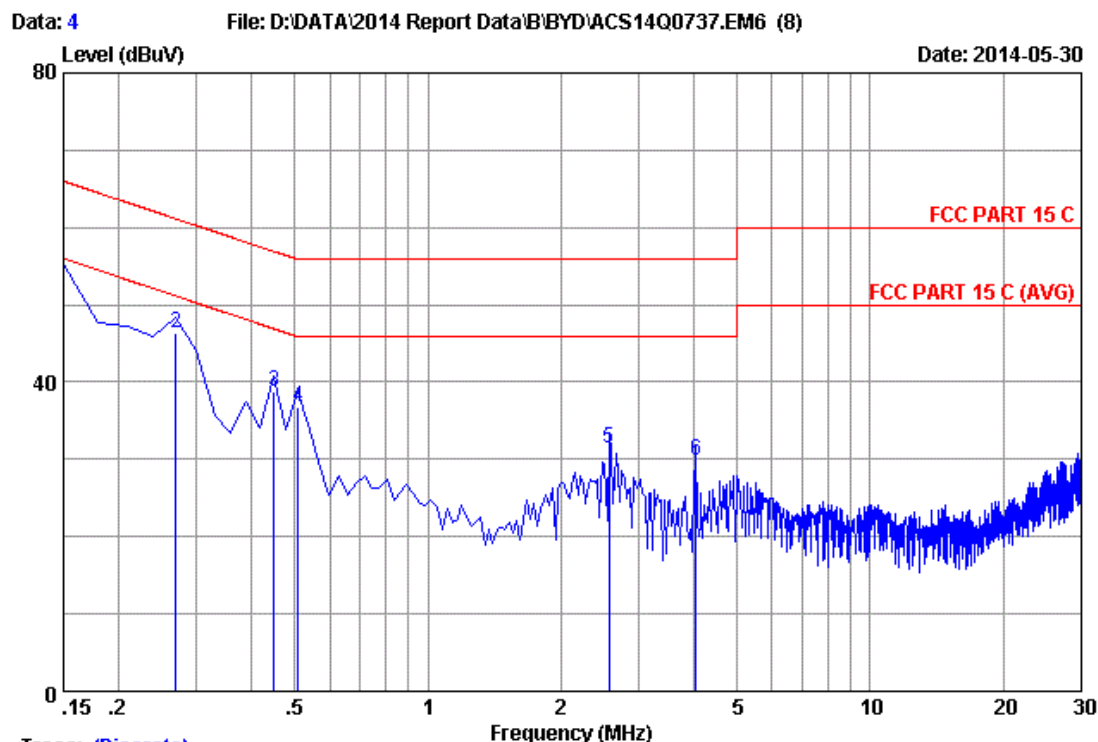
Trace: (Discrete)

Site no :1#conduction Data No :3  
Dis./Ant. :2014 ESH2-25 LINE  
Limit :FCC PART 15 C  
Env./Ins. :25.3°C/42% Engineer :Kevin\_HMJ  
EUT :Dell Cast Adapter  
Power Rating :DC 5V From PC Input AC 120V/60Hz  
Test Mode :Tx Mode(BT)  
M/N:BEL01

| No | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1  | 0.15000       | 0.12                   | 9.87                  | 41.63             | 51.62                       | 66.00            | 14.38          | QP     |
| 2  | 0.26940       | 0.14                   | 9.88                  | 35.15             | 45.17                       | 61.14            | 15.97          | QP     |
| 3  | 0.35895       | 0.14                   | 9.88                  | 31.60             | 41.62                       | 58.75            | 17.13          | QP     |
| 4  | 1.672         | 0.18                   | 9.90                  | 17.92             | 28.00                       | 56.00            | 28.00          | QP     |
| 5  | 2.001         | 0.19                   | 9.91                  | 18.41             | 28.51                       | 56.00            | 27.49          | QP     |
| 6  | 4.448         | 0.25                   | 9.94                  | 21.50             | 31.69                       | 56.00            | 24.31          | QP     |

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.

2.If the average limit is met when using a quasi-peak detector.  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.



# Trace: (Discrete)

Site no :1#conduction Data No :4  
Dis./Ant. :2014 ESH2-25 NEUTRAL  
Limit :FCC PART 15 C  
Env./Ins. :25.3°C/42% Engineer :Kevin\_HMJ  
EUT :Dell Cast Adapter  
Power Rating :DC 5V From PC Input AC 120V/60Hz  
Test Mode :Tx Mode(BT)  
M/N:BELO1

| No | Freq<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark |
|----|---------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|--------|
| 1  | 0.15000       | 0.18                   | 9.87                  | 41.21             | 51.26                       | 66.00            | 14.74          | QP     |
| 2  | 0.26940       | 0.19                   | 9.88                  | 36.39             | 46.46                       | 61.14            | 14.68          | QP     |
| 3  | 0.44850       | 0.22                   | 9.88                  | 28.67             | 38.77                       | 56.90            | 18.13          | QP     |
| 4  | 0.50820       | 0.23                   | 9.88                  | 26.71             | 36.82                       | 56.00            | 19.18          | QP     |
| 5  | 2.568         | 0.28                   | 9.92                  | 21.15             | 31.35                       | 56.00            | 24.65          | QP     |
| 6  | 4.031         | 0.31                   | 9.94                  | 19.58             | 29.83                       | 56.00            | 26.17          | QP     |

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.  
2.If the average limit is met when using 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

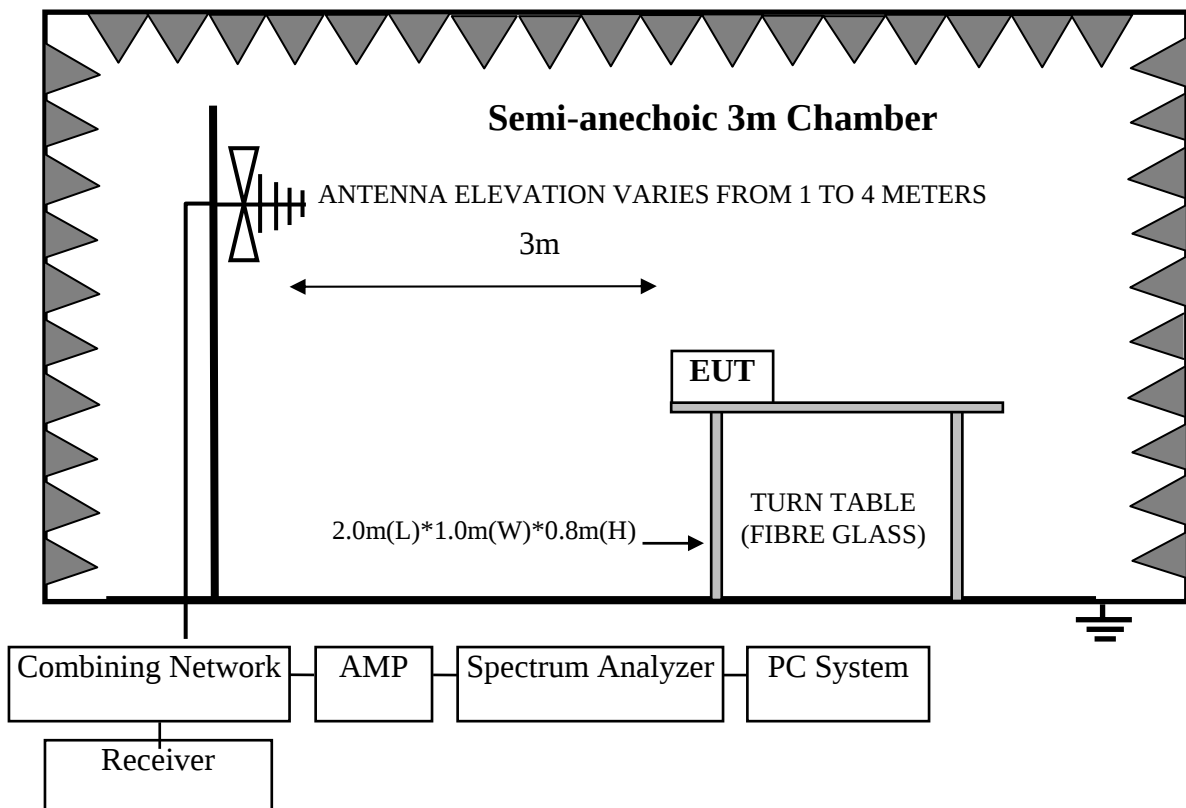
| Item | Equipment      | Manufacturer    | Model No. | Serial No.      | Last Cal.  | Cal. Interval |
|------|----------------|-----------------|-----------|-----------------|------------|---------------|
| 1.   | 3#Chamber      | AUDIX           | N/A       | N/A             | Nov.24, 13 | 1 Year        |
| 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  | Schaffner       | CBL6111C  | 2598            | Apr. 08,14 | 1 Year        |
| 6.   | RF Cable       | MIYAZAKI        | CFD400-NL | 3# Chamber No.1 | Apr. 28,14 | 1 Year        |
| 7.   | Coaxial Switch | Anritsu         | MP59B     | M74389          | Apr. 28,14 | 1 Year        |

Frequency rang: above 1000MHz

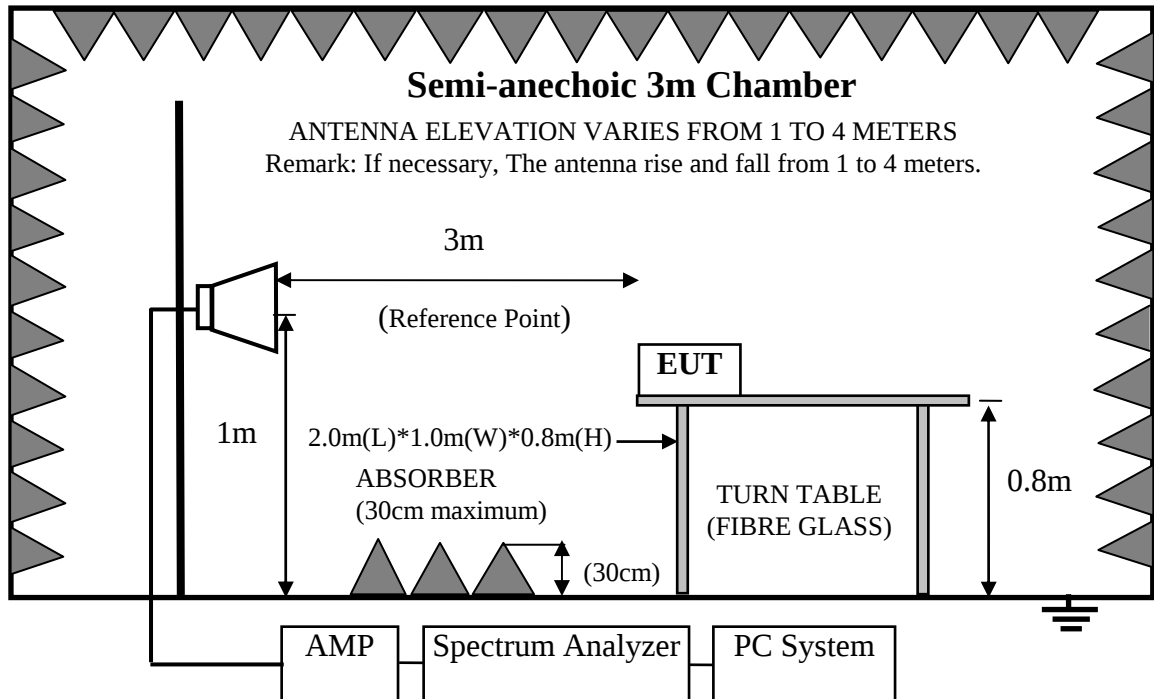
| Item | Equipment         | Manufacturer | Model No.   | Serial No. | Last Cal.  | Cal. Interval |
|------|-------------------|--------------|-------------|------------|------------|---------------|
| 1    | Spectrum Analyzer | Agilent      | E4446A      | US44300459 | Apr. 28,14 | 1 Year        |
| 2    | Horn Antenna      | EMCO         | 3115        | 9607-4877  | Aug.27, 13 | 1 Year        |
| 3    | Amplifier         | Agilent      | 8449B       | 3008A02495 | Apr. 28,14 | 1 Year        |
| 4    | RF Cable          | Hubersuhner  | SUCOFLEX106 | 77977/6    | Apr. 28,14 | 1 Year        |
| 5    | RF Cable          | Hubersuhner  | SUCOFLEX106 | 28616/2    | Apr. 28,14 | 1 Year        |
| 6    | Horn Antenna      | EMCO         | 3116        | 00060089   | Aug.27, 13 | 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: FCC 15.209

| FREQUENCY<br>MHz | DISTANCE<br>Meters | FIELD STRENGTHS LIMIT                                                                             |                                   |
|------------------|--------------------|---------------------------------------------------------------------------------------------------|-----------------------------------|
|                  |                    | $\mu\text{V/m}$                                                                                   | $\text{dB}(\mu\text{V})/\text{m}$ |
| 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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak)<br>54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) |                                   |

- Remark :
- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log$  Emission level  $\mu\text{V/m}$
  - (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. Dell Cast Adapter (EUT)

Model Number : BEL01  
Serial Number : N/A

#### 4.5.Operating Condition of EUT

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

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 and above 1GHz.

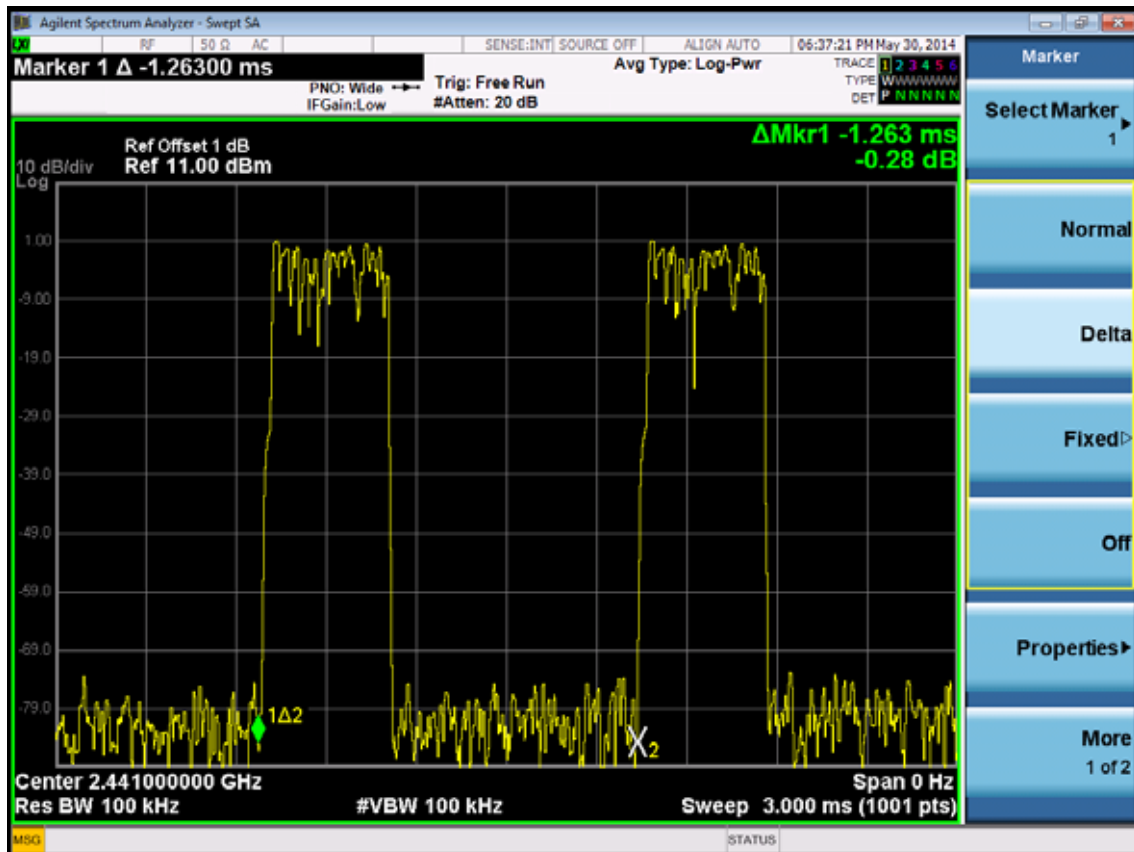
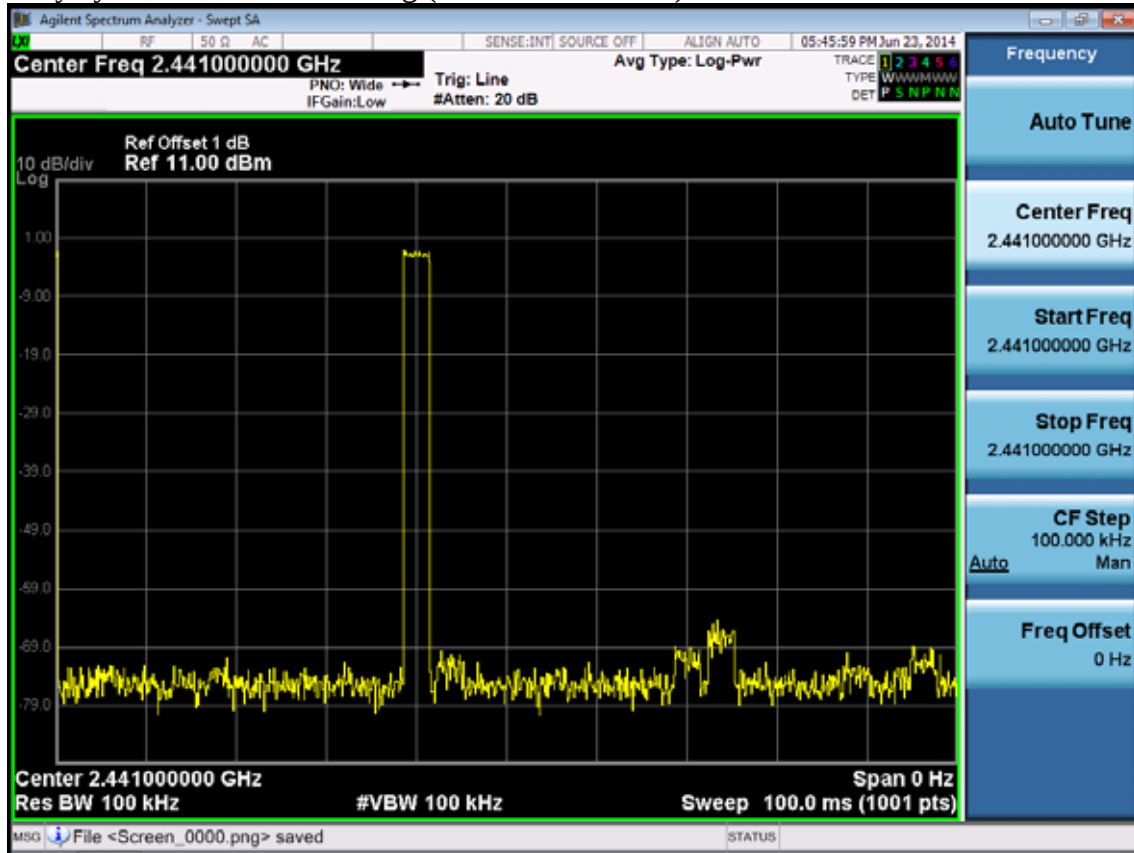
This device is pulse modulated, a duty cycle correct factor was used to calculated the average emission level based on the measured peak level.

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.**

Duty cycle correct factor=20log (dwell time /100ms)



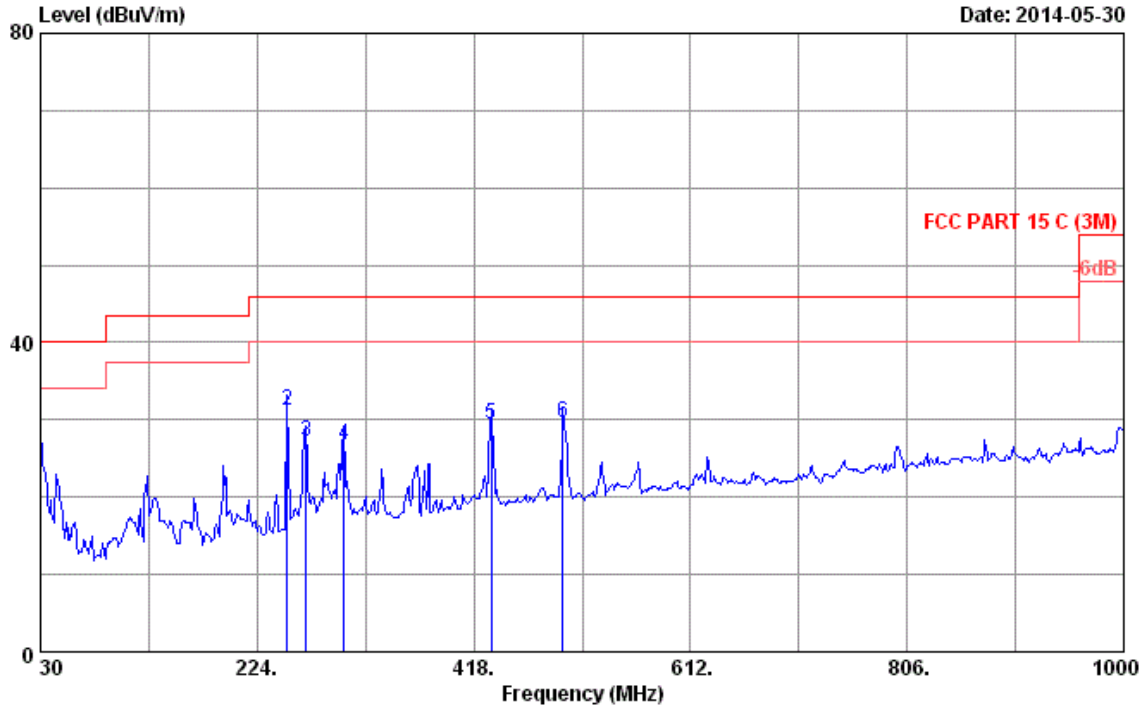


# Frequency: 30MHz~1GHz

Data: 7

File: E:\2014 Report Data\B\BYD\ACS1400737-1.EM6 (12)

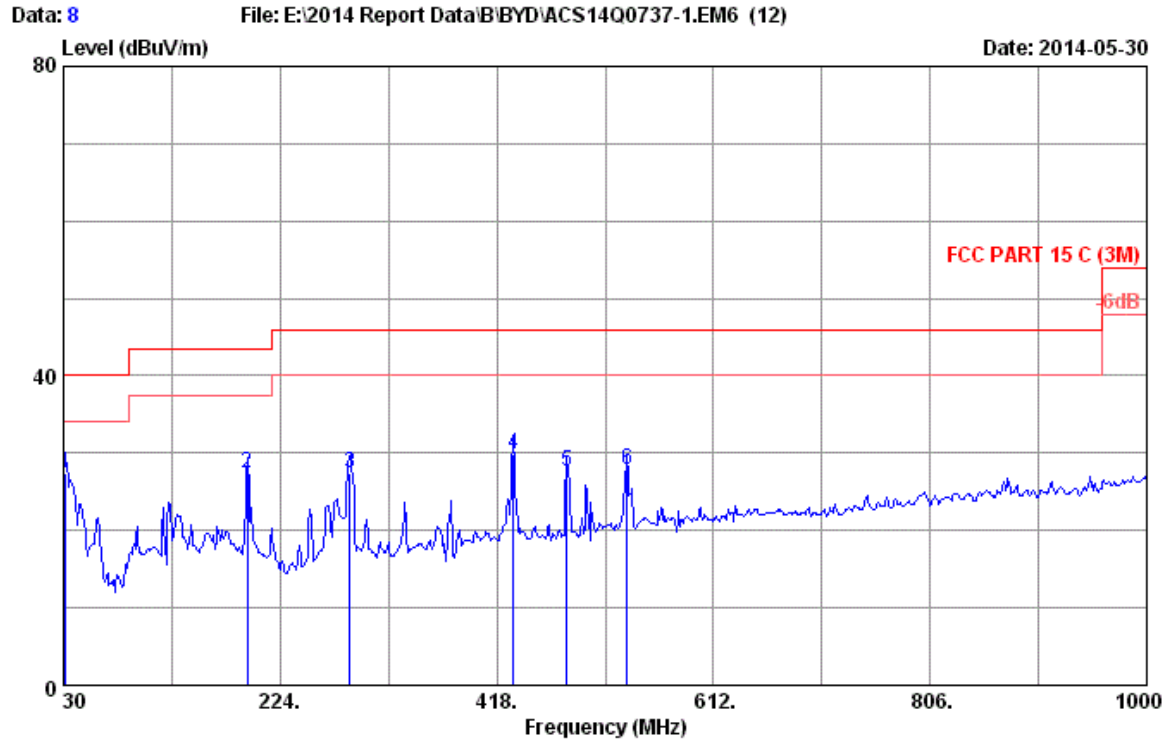
Date: 2014-05-30



Site no. : 3m Chamber Data no. : 7  
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 C (3M)  
Env. / Ins. : 22.5°C/47% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : Tx Mode (BT)  
M/N: BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 30.00          | 20.10                    | 0.83                  | 3.98              | 24.91                         | 40.00              | 15.09          | QP     |
| 2   | 251.16         | 13.16                    | 1.98                  | 16.08             | 31.22                         | 46.00              | 14.78          | QP     |
| 3   | 267.65         | 13.62                    | 2.05                  | 11.51             | 27.18                         | 46.00              | 18.82          | QP     |
| 4   | 301.60         | 14.03                    | 2.17                  | 10.47             | 26.67                         | 46.00              | 19.33          | QP     |
| 5   | 433.52         | 17.03                    | 2.56                  | 9.76              | 29.35                         | 46.00              | 16.65          | QP     |
| 6   | 497.54         | 17.95                    | 2.74                  | 8.96              | 29.65                         | 46.00              | 16.35          | 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. : 8  
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL  
Limit : FCC PART 15 C (3M)  
Env. / Ins. : 22.5°C/47% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : Tx Mode(BT)  
M/N:BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 31.94          | 18.84                    | 0.86                  | 7.81              | 27.51                         | 40.00              | 12.49          | QP     |
| 2   | 194.90         | 9.89                     | 1.77                  | 15.73             | 27.39                         | 43.50              | 16.11          | QP     |
| 3   | 286.08         | 13.70                    | 2.12                  | 11.51             | 27.33                         | 46.00              | 18.67          | QP     |
| 4   | 432.55         | 17.05                    | 2.55                  | 10.19             | 29.79                         | 46.00              | 16.21          | QP     |
| 5   | 481.05         | 17.80                    | 2.70                  | 7.11              | 27.61                         | 46.00              | 18.39          | QP     |
| 6   | 534.40         | 18.19                    | 2.85                  | 6.72              | 27.76                         | 46.00              | 18.24          | QP     |

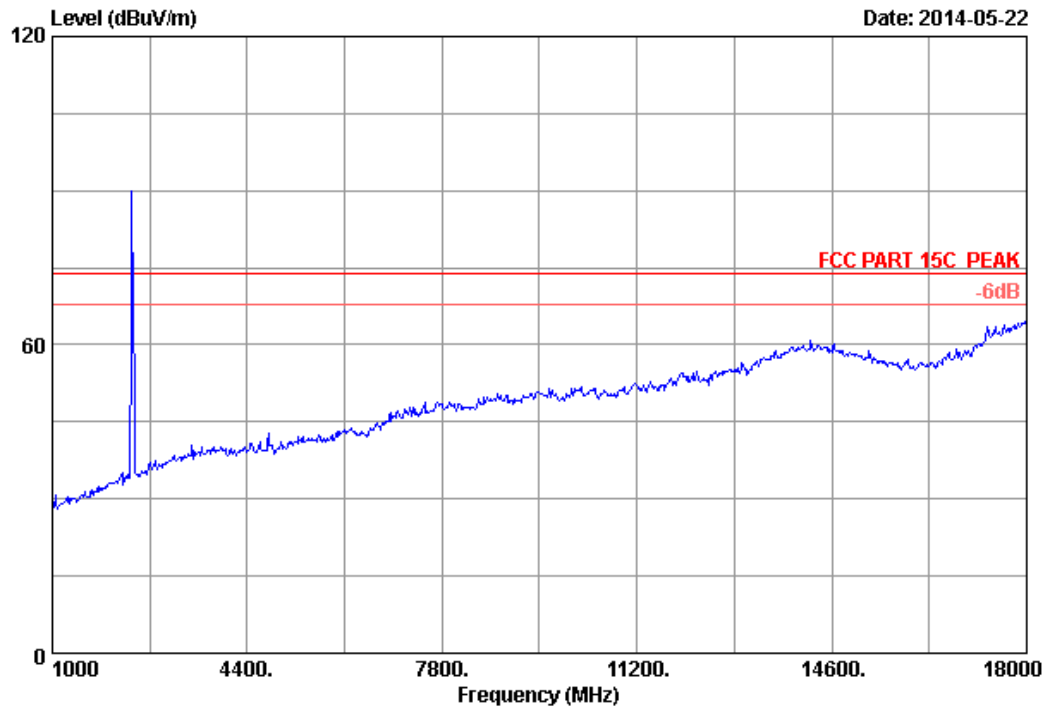
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.

# Frequency: 1GHz~18GHz

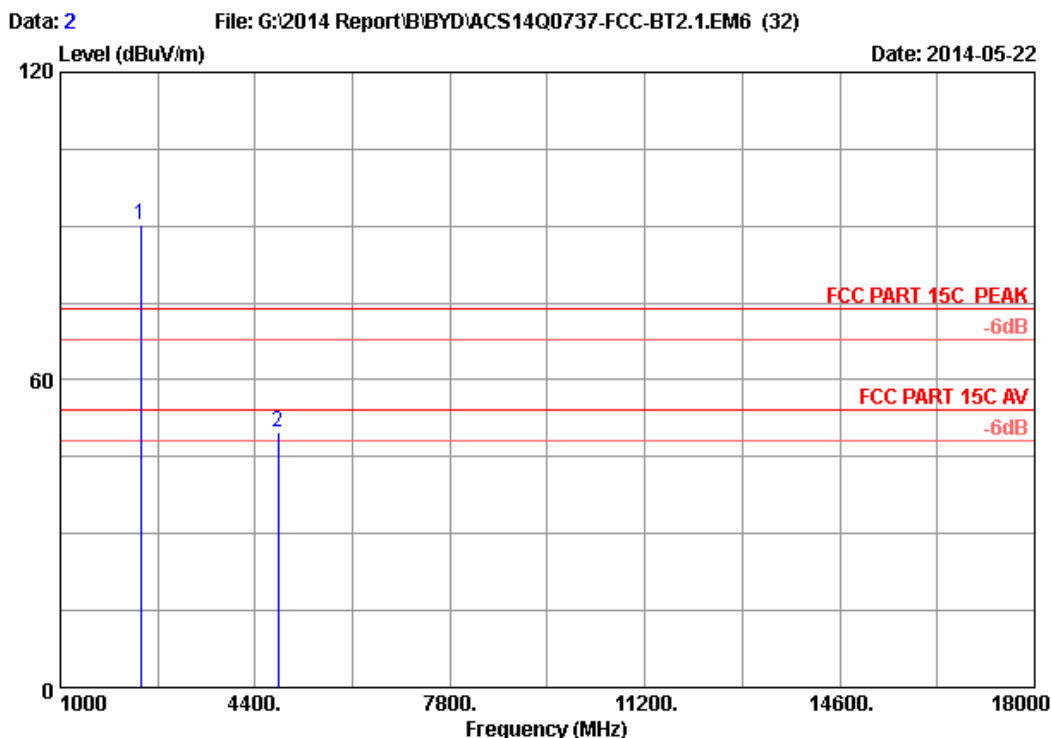
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File: G:\2014 Report\B\BYD\ACS14Q0737-FCC-BT2.1.EM6 (32)

Date: 2014-05-22



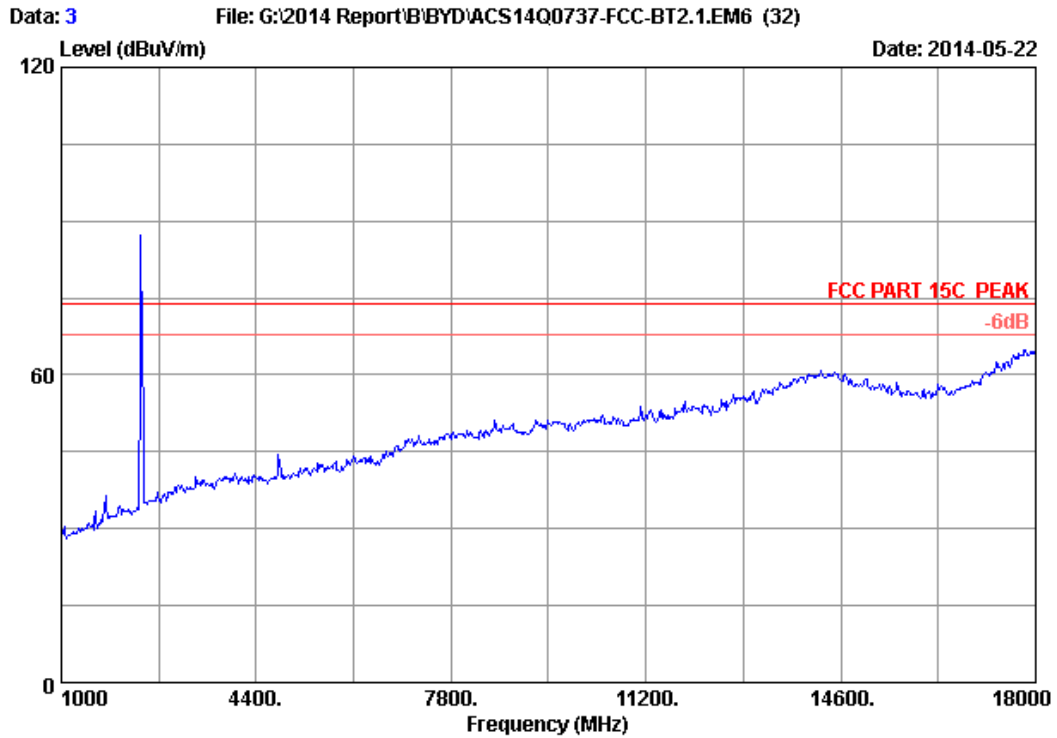
Site no. : 3m Chamber Data no. : 1  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2402MHz Tx  
M/N : BEL01



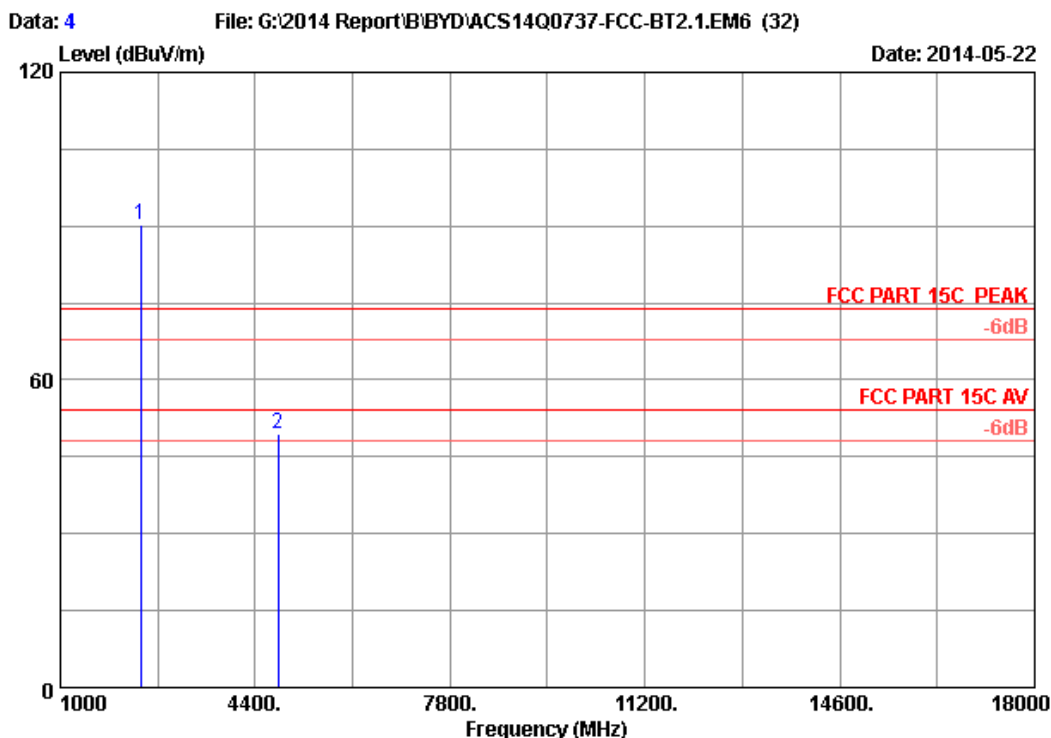
Site no. : 3m Chamber Data no. : 2  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2402MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2402.000       | 28.18                    | 5.80                  | 35.70                 | 91.99             | 90.27                         | 74.00              | -16.27         | Peak   |
| 2   | 4804.000       | 32.85                    | 8.56                  | 35.70                 | 44.03             | 49.74                         | 74.00              | 24.26          | 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.



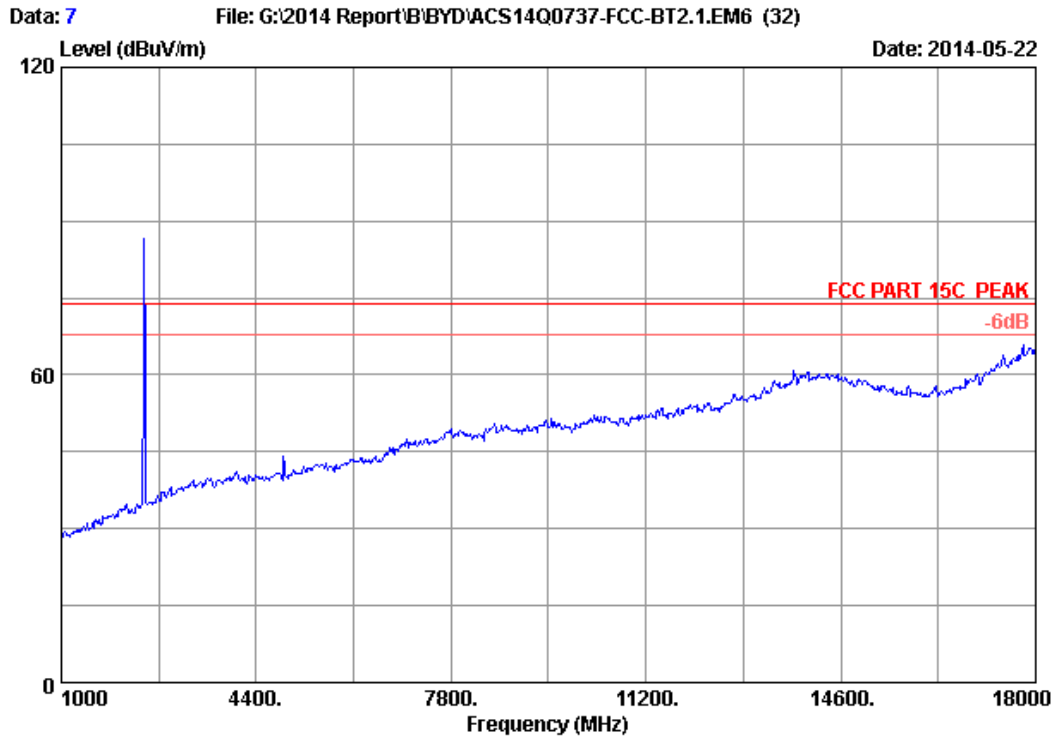
Site no. : 3m Chamber Data no. : 3  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2402MHz Tx  
M/N : BEL01



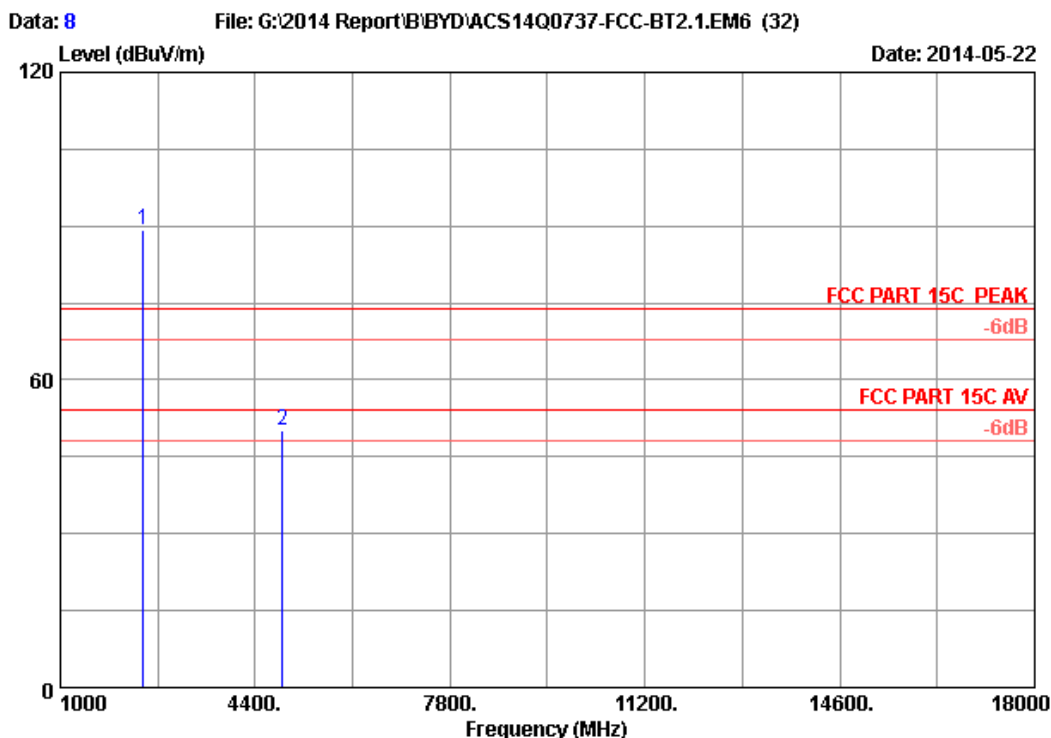
Site no. : 3m Chamber Data no. : 4  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2402MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant. Cable AMP   |              |                | Emission          |                   |                    |                |        |
|-----|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|----------------|--------|
|     |                | Factor<br>(dB/m) | Loss<br>(dB) | factor<br>(dB) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
| 1   | 2402.000       | 28.18            | 5.80         | 35.70          | 91.87             | 90.15             | 74.00              | -16.15         | Peak   |
| 2   | 4804.000       | 32.85            | 8.56         | 35.70          | 43.62             | 49.33             | 74.00              | 24.67          | 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.



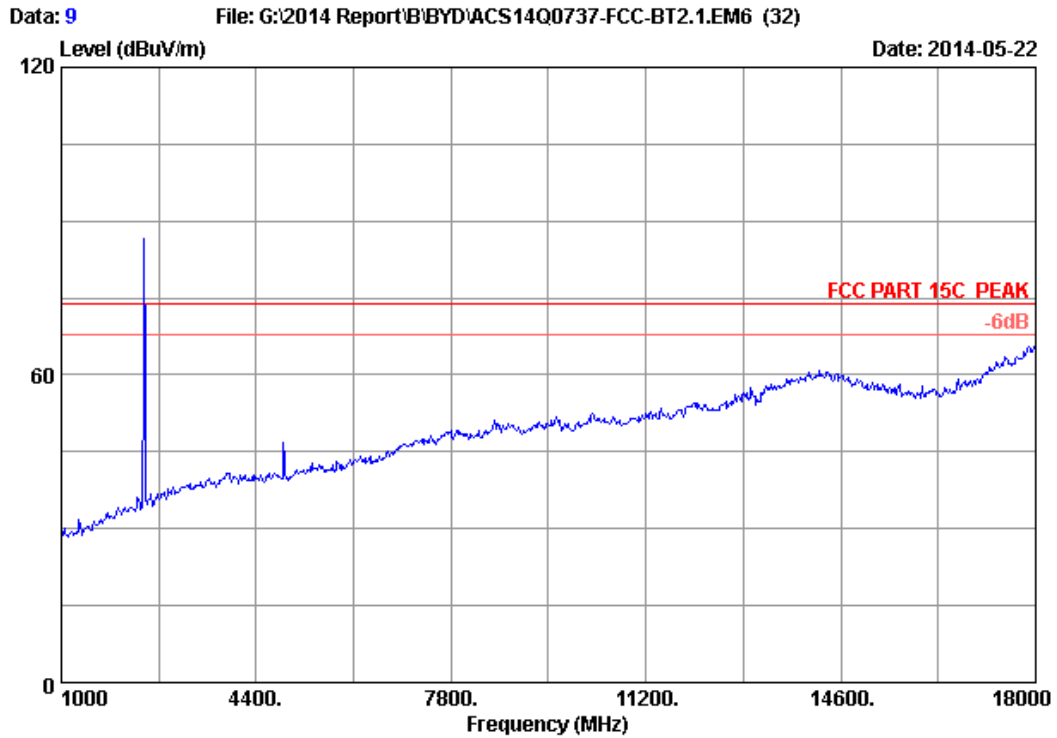
Site no. : 3m Chamber Data no. : 7  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2441MHz Tx  
M/N : BEL01



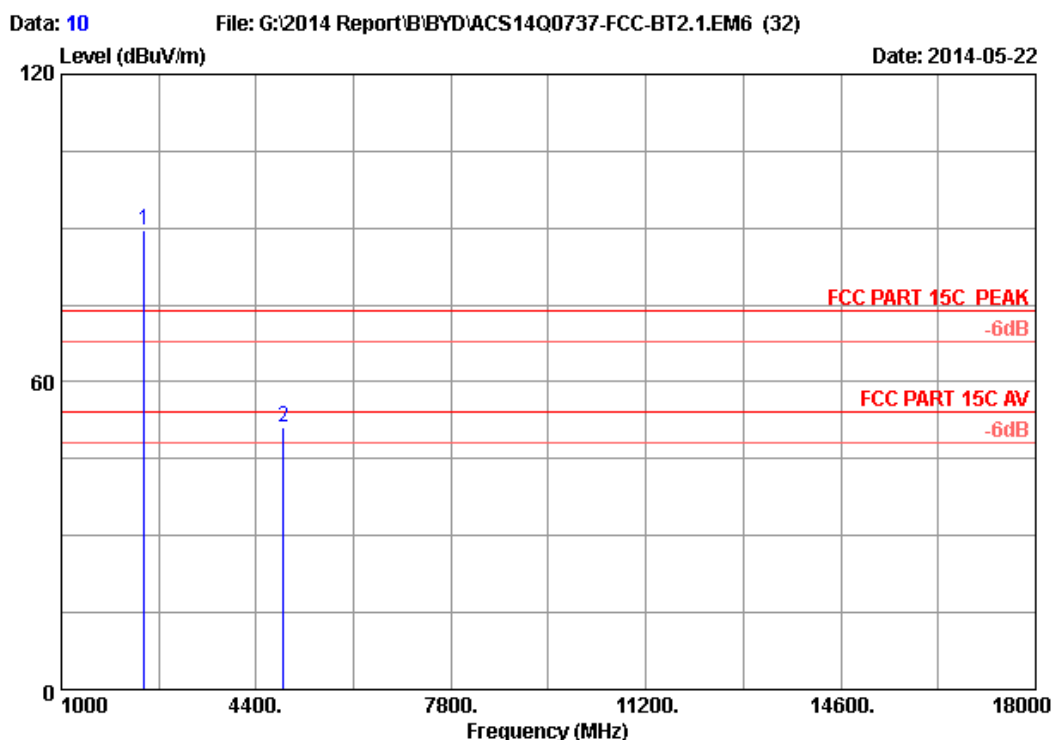
Site no. : 3m Chamber Data no. : 8  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2441MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission          |                    |                |        |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
|     |                |                          |                       |                       |                   | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
| 1   | 2441.000       | 28.27                    | 5.86                  | 35.70                 | 90.86             | 89.29             | 74.00              | -15.29         | Peak   |
| 2   | 4882.000       | 32.99                    | 8.64                  | 35.70                 | 44.16             | 50.09             | 74.00              | 23.91          | 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.



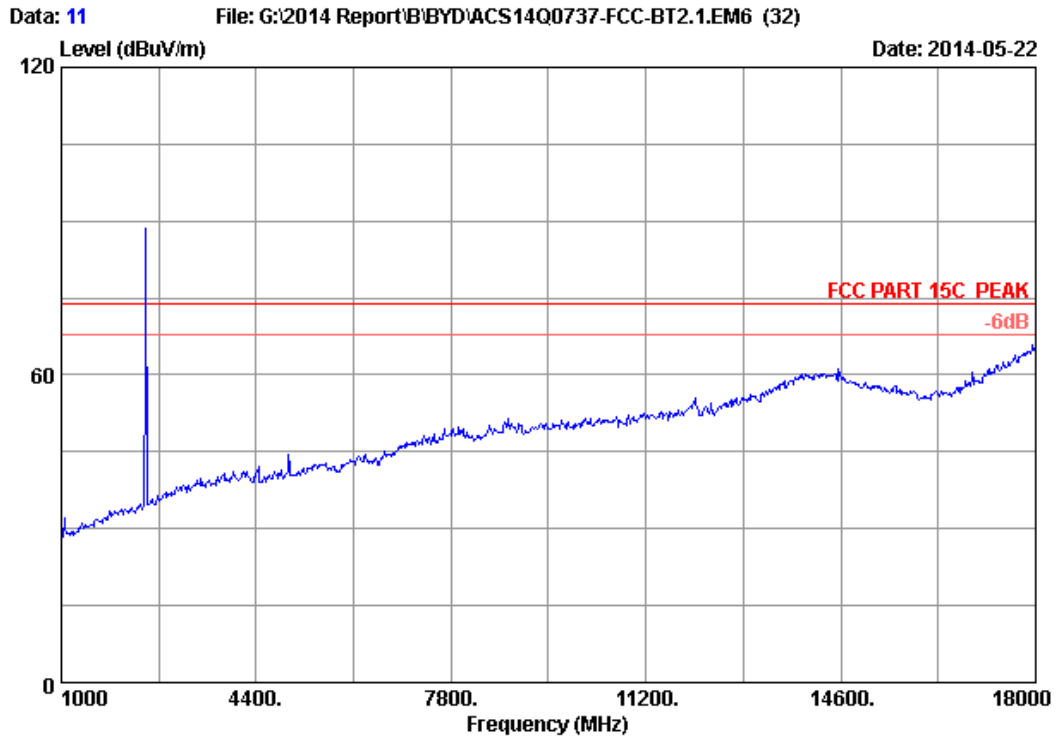
Site no. : 3m Chamber Data no. : 9  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2441MHz Tx  
M/N : BEL01



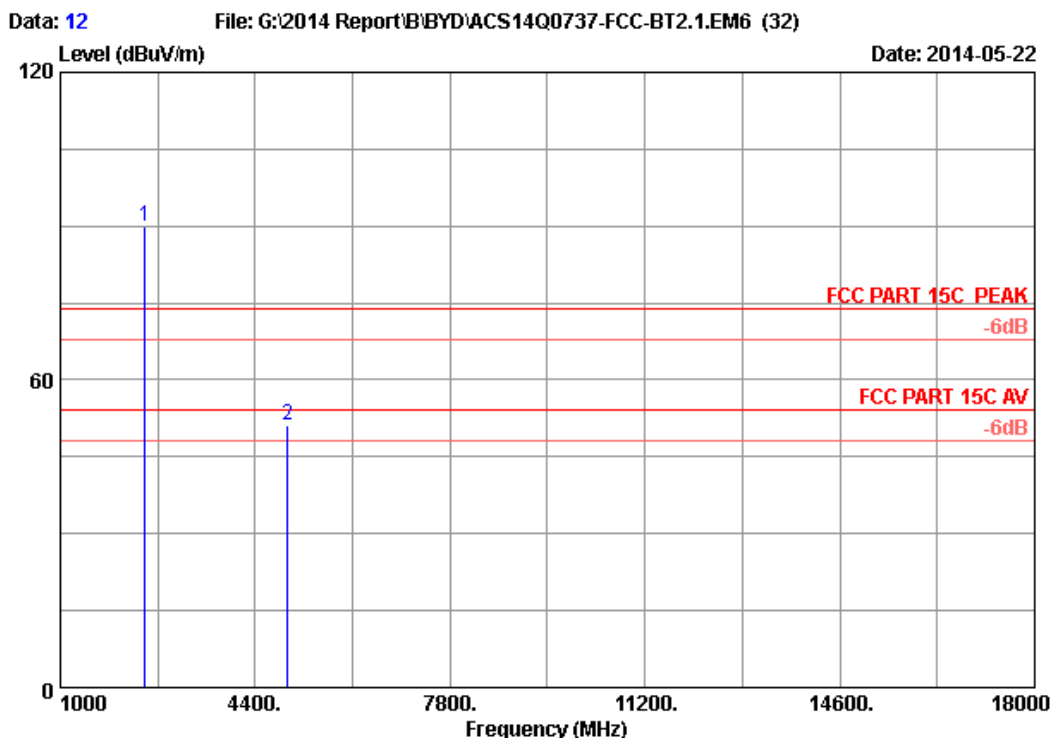
Site no. : 3m Chamber Data no. : 10  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : GFSK 2441MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2441.000       | 28.27                    | 5.86                  | 35.70                 | 91.26             | 89.69                         | 74.00              | -15.69         | Peak   |
| 2   | 4882.000       | 32.99                    | 8.64                  | 35.70                 | 45.33             | 51.26                         | 74.00              | 22.74          | Peak   |

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



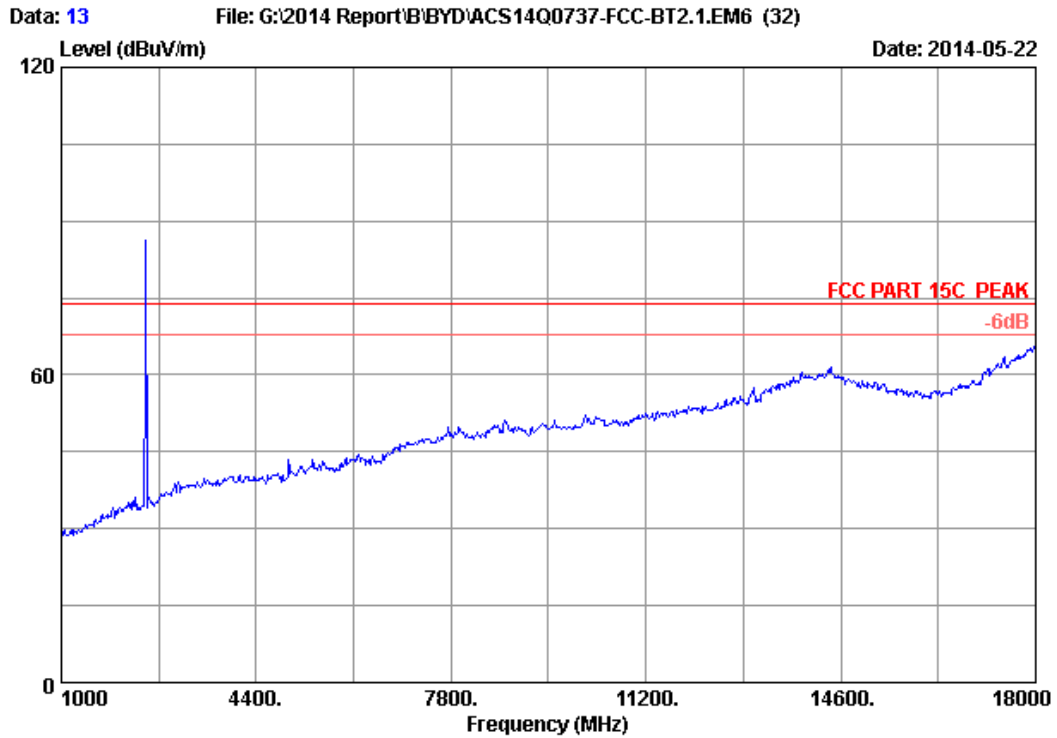
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Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2480MHz Tx  
M/N : BEL01



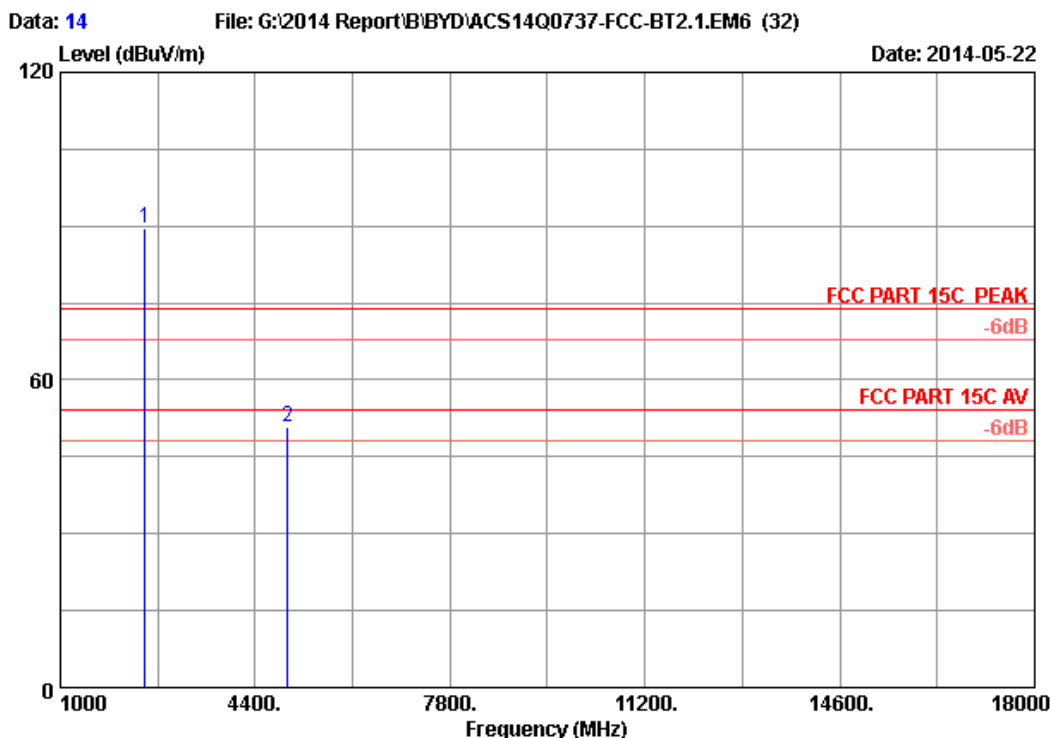
Site no. : 3m Chamber Data no. : 12  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2480MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission          |                    |                |        |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
|     |                |                          |                       |                       |                   | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
| 1   | 2480.000       | 28.36                    | 5.91                  | 35.70                 | 91.26             | 89.83             | 74.00              | -15.83         | Peak   |
| 2   | 4960.000       | 33.13                    | 8.72                  | 35.70                 | 45.02             | 51.17             | 74.00              | 22.83          | 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.



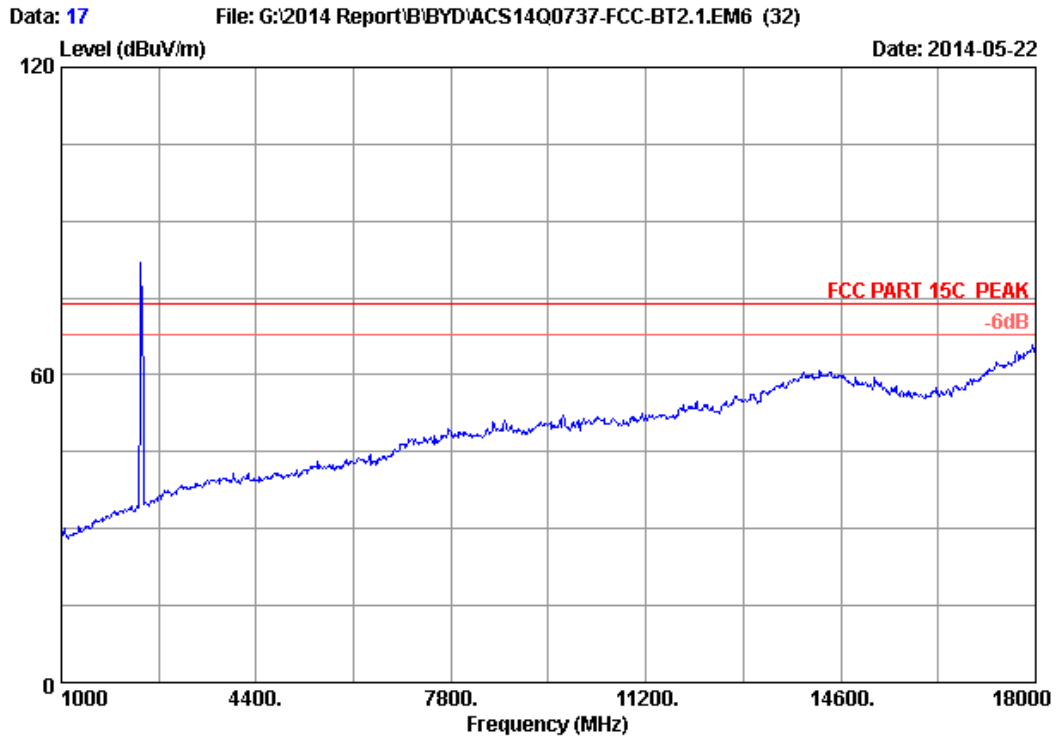
Site no. : 3m Chamber Data no. : 13  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2480MHz Tx  
M/N : BEL01



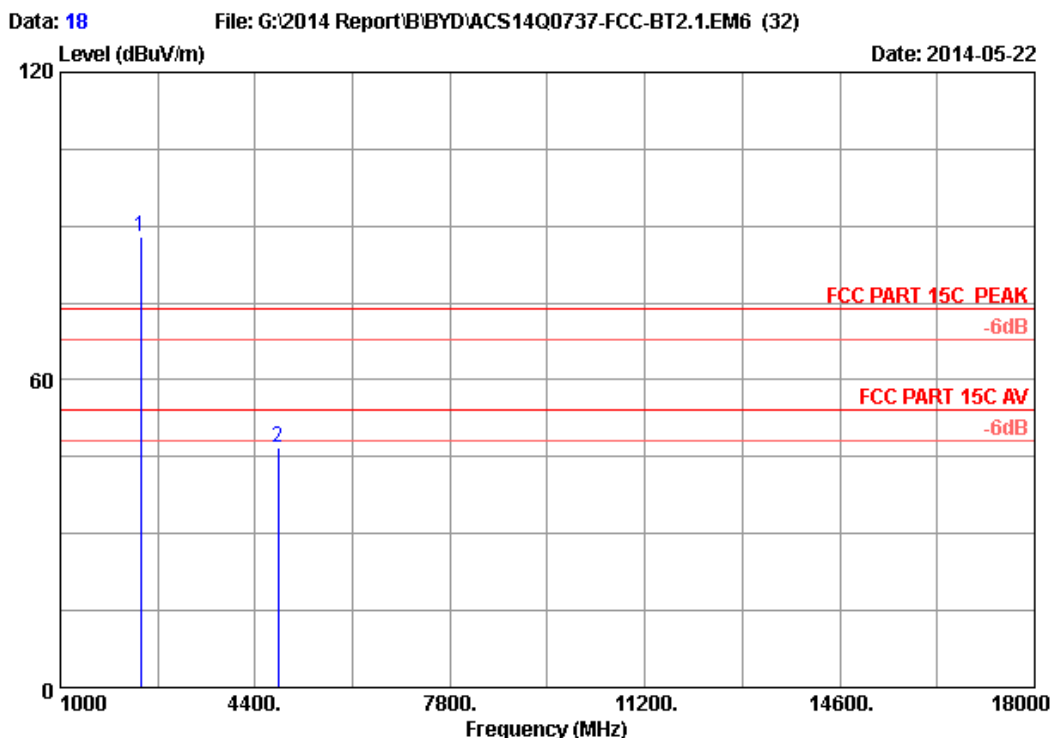
Site no. : 3m Chamber Data no. : 14  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2480MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission          |                    |                |        |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
|     |                |                          |                       |                       |                   | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
| 1   | 2480.000       | 28.36                    | 5.91                  | 35.70                 | 90.86             | 89.43             | 74.00              | -15.43         | Peak   |
| 2   | 4960.000       | 33.13                    | 8.72                  | 35.70                 | 44.56             | 50.71             | 74.00              | 23.29          | 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.



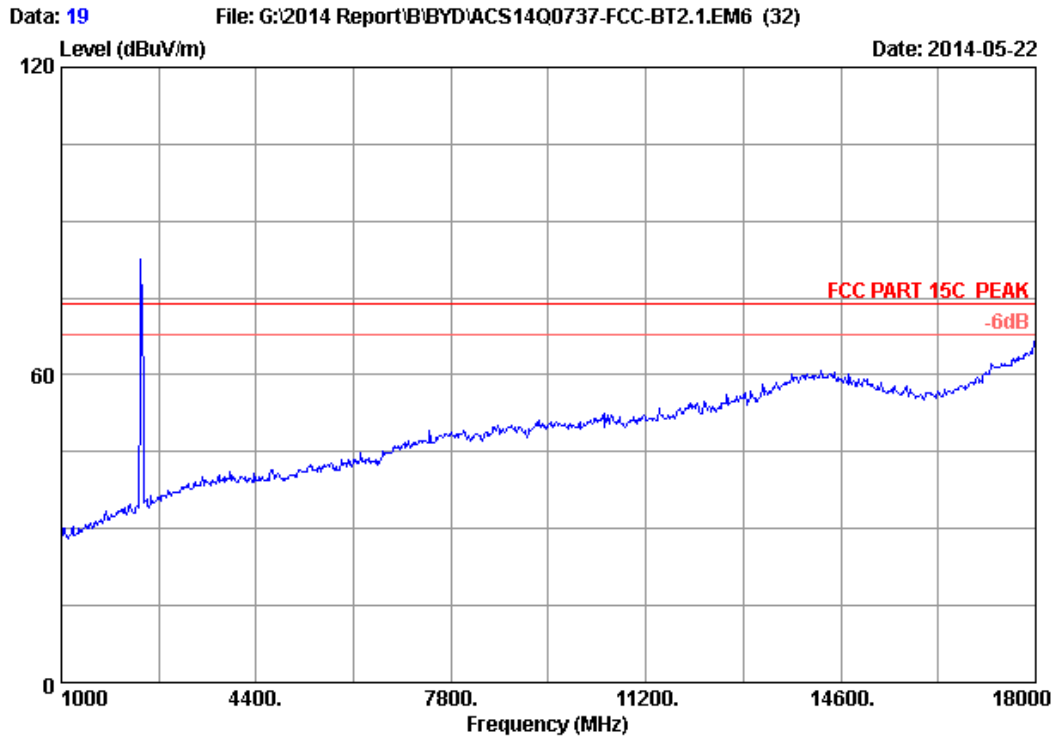
Site no. : 3m Chamber Data no. : 17  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2402MHz Tx  
M/N : BEL01



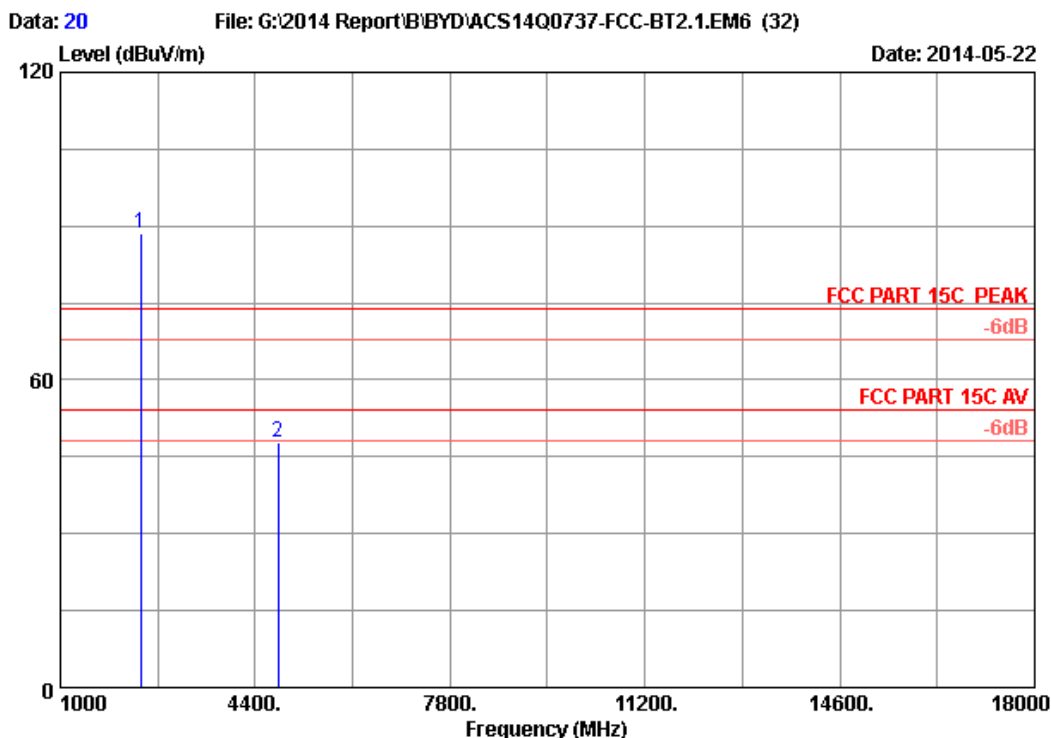
Site no. : 3m Chamber Data no. : 18  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2402MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission          |                    |                |        |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
|     |                |                          |                       |                       |                   | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
| 1   | 2402.000       | 28.18                    | 5.80                  | 35.70                 | 89.58             | 87.86             | 74.00              | -13.86         | Peak   |
| 2   | 4804.000       | 32.85                    | 8.56                  | 35.70                 | 41.23             | 46.94             | 74.00              | 27.06          | 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.



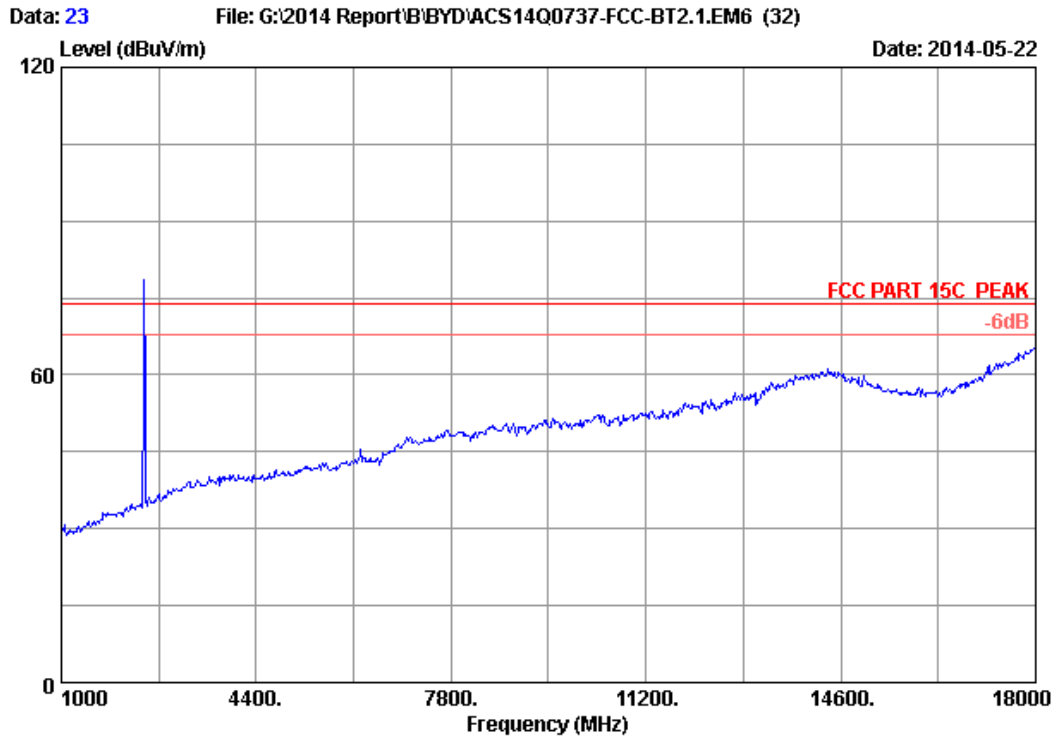
Site no. : 3m Chamber Data no. : 19  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2402MHz Tx  
M/N : BEL01



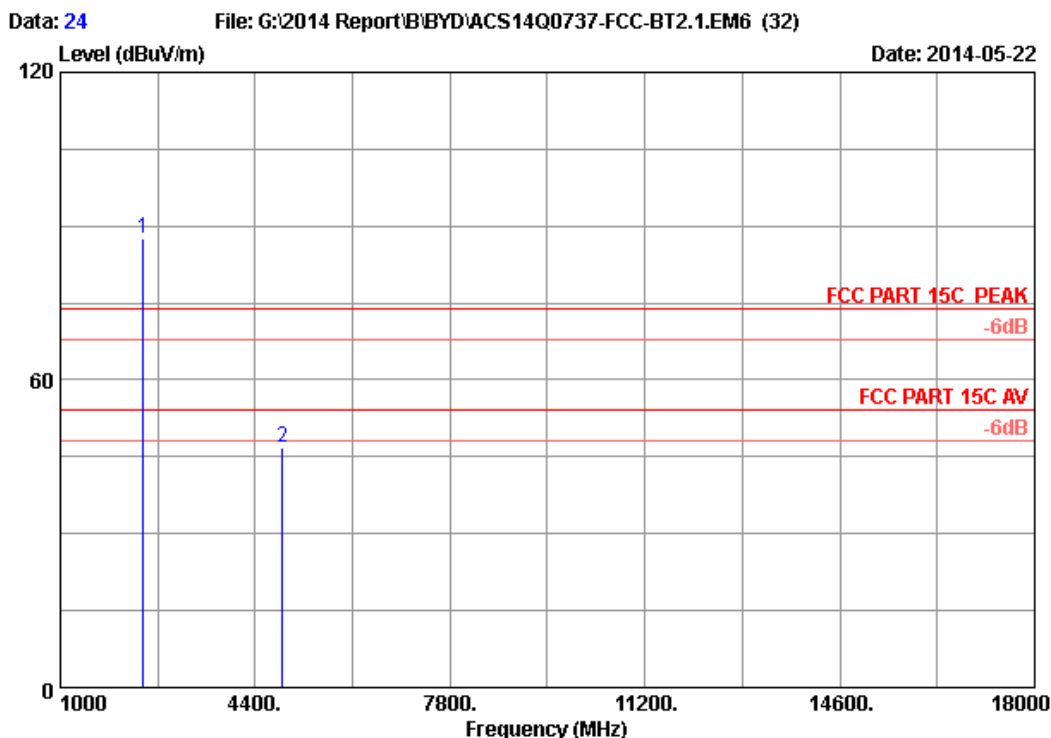
Site no. : 3m Chamber Data no. : 20  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : 8-DPSK 2402MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2402.000       | 28.18                    | 5.80                  | 35.70                 | 90.42             | 88.70                         | 74.00              | -14.70         | Peak   |
| 2   | 4804.000       | 32.85                    | 8.56                  | 35.70                 | 42.13             | 47.84                         | 74.00              | 26.16          | 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.



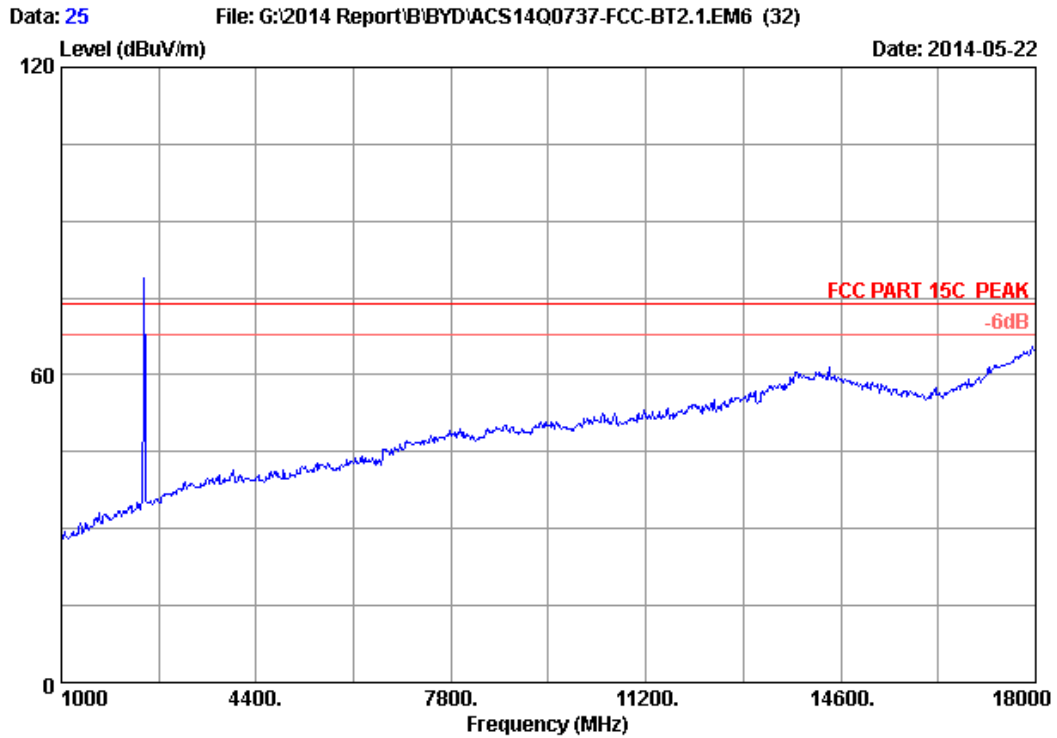
Site no. : 3m Chamber Data no. : 23  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : 8-DPSK 2441MHz Tx  
 M/N : BEL01



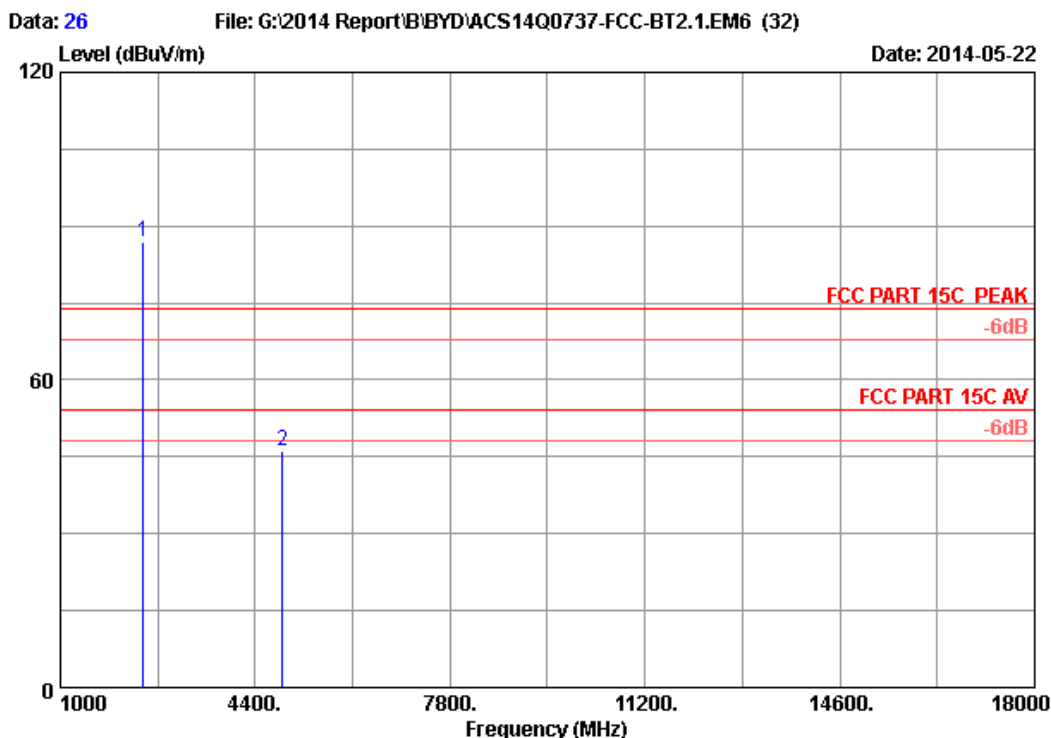
Site no. : 3m Chamber Data no. : 24  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2441MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2441.000       | 28.27                    | 5.86                  | 35.70                 | 89.16             | 87.59                         | 74.00              | -13.59         | Peak   |
| 2   | 4882.000       | 32.99                    | 8.64                  | 35.70                 | 41.03             | 46.96                         | 74.00              | 27.04          | 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.



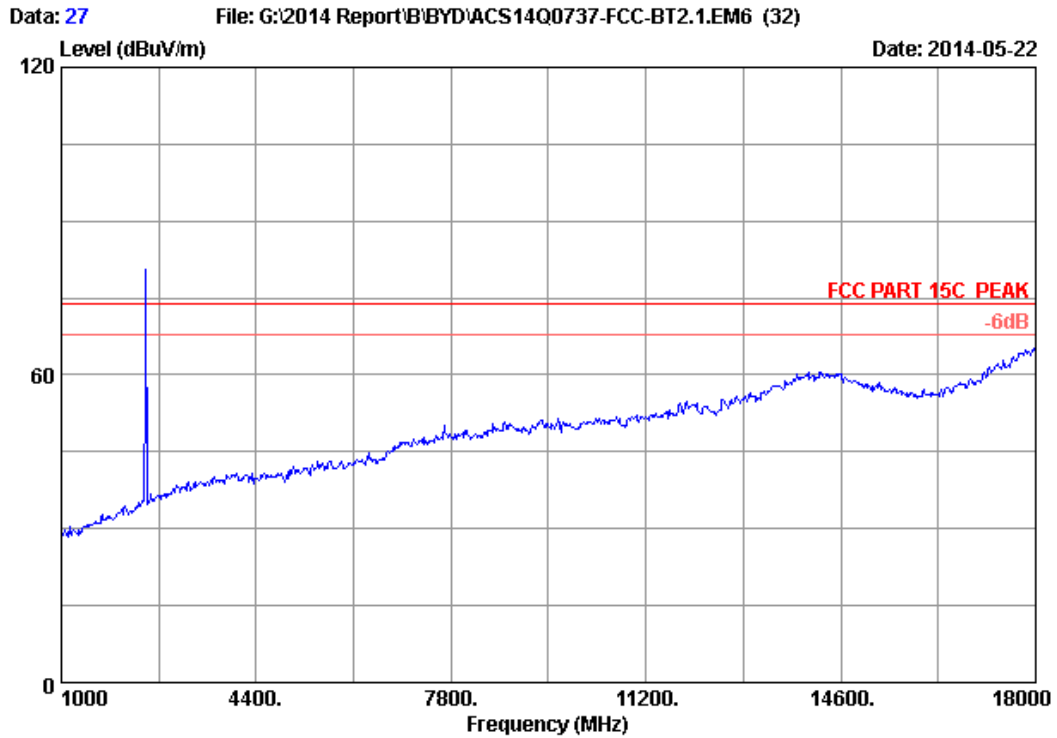
|              |                                    |           |              |
|--------------|------------------------------------|-----------|--------------|
| Site no.     | : 3m Chamber                       | Data no.  | : 25         |
| Dis. / Ant.  | : 3m 2013 3115 (4580)              | Ant. pol. | : HORIZONTAL |
| Limit        | : FCC PART 15C PEAK                |           |              |
| Env. / Ins.  | : 24°C/56%                         | Engineer  | : Kevin_HMJ  |
| EUT          | : Dell Cast Adapter                |           |              |
| Power Rating | : DC 5V From PC Input AC 120V/60Hz |           |              |
| Test Mode    | : 8-DPSK 2441MHz Tx                |           |              |
| M/N          | : BEL01                            |           |              |



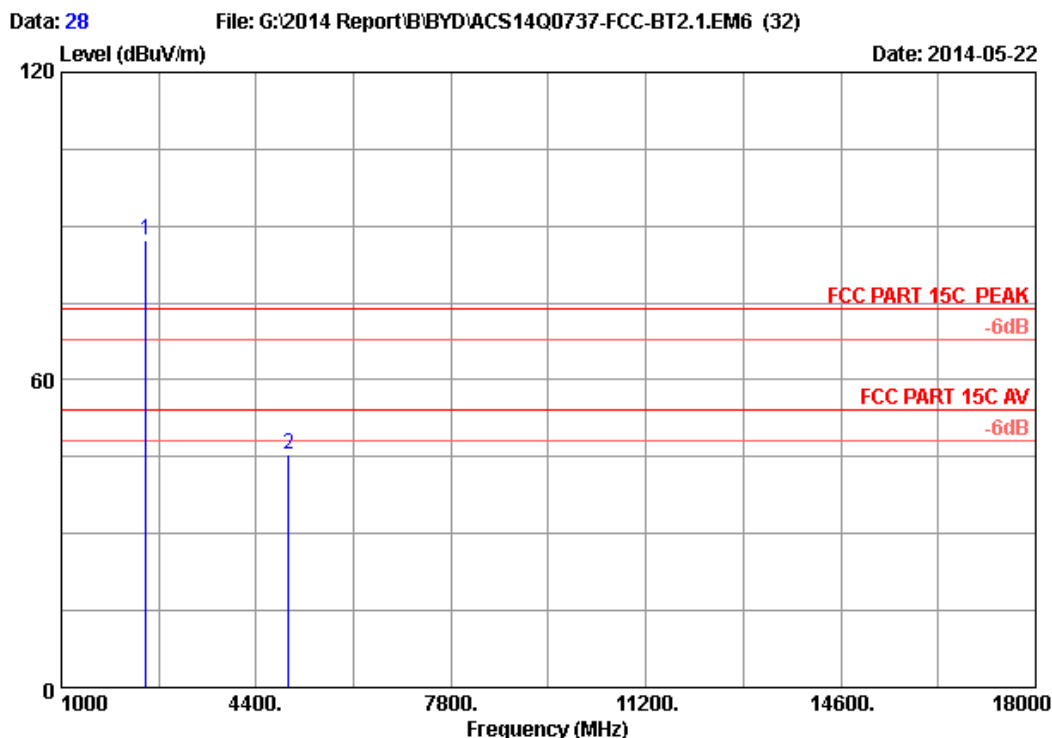
Site no. : 3m Chamber Data no. : 26  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2441MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2441.000       | 28.27                    | 5.86                  | 35.70                 | 88.42             | 86.85                         | 74.00              | -12.85         | Peak   |
| 2   | 4882.000       | 32.99                    | 8.64                  | 35.70                 | 40.36             | 46.29                         | 74.00              | 27.71          | 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.



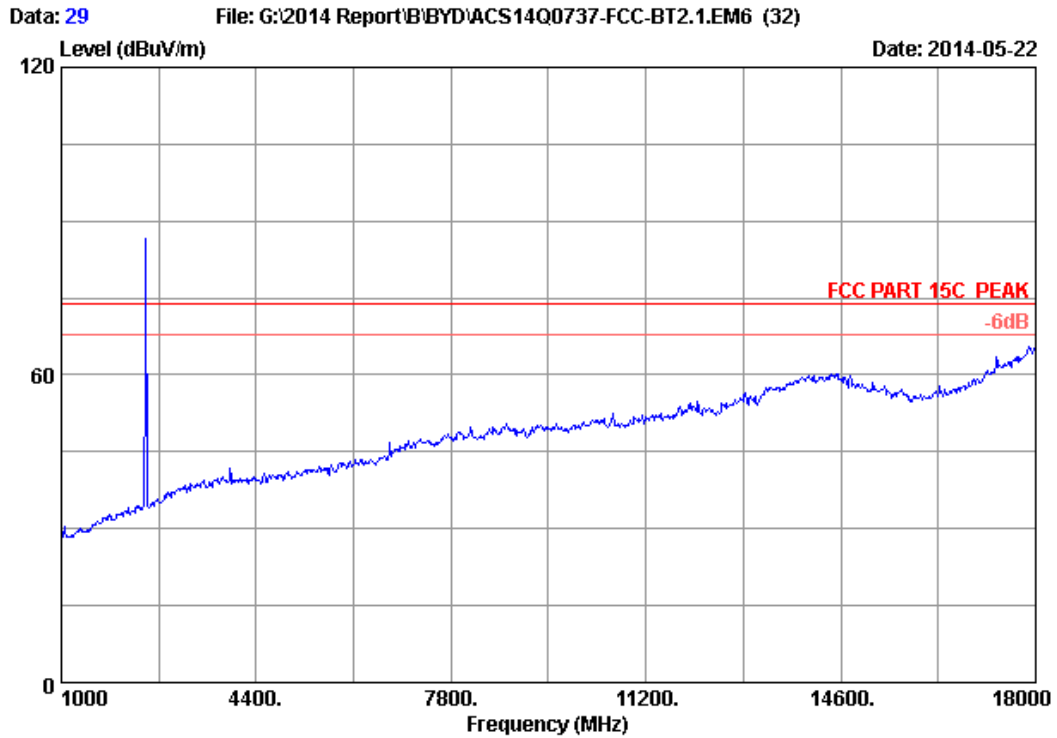
Site no. : 3m Chamber Data no. : 27  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2480MHz Tx  
M/N : BEL01



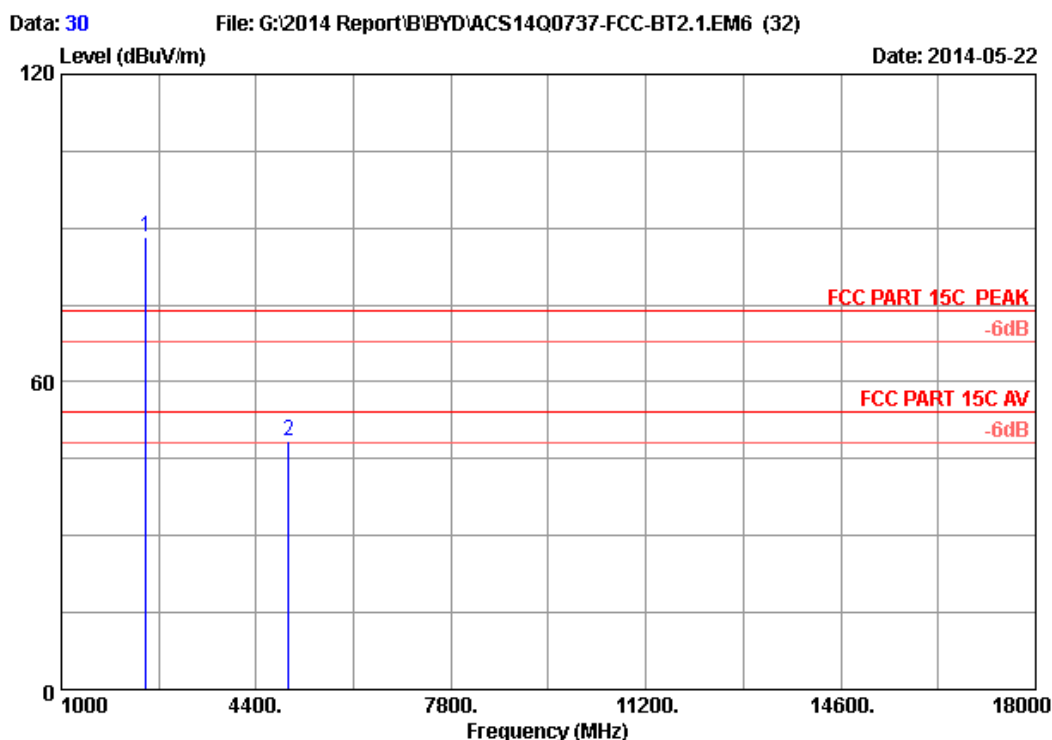
Site no. : 3m Chamber Data no. : 28  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2480MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2480.000       | 28.36                    | 5.91                  | 35.70                 | 88.52             | 87.09                         | 74.00              | -13.09         | Peak   |
| 2   | 4960.000       | 33.13                    | 8.72                  | 35.70                 | 39.27             | 45.42                         | 74.00              | 28.58          | 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. : 29  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : 8-DPSK 2480MHz Tx  
M/N : BEL01



Site no. : 3m Chamber Data no. : 30  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : 8-DPSK 2480MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission          |                    |                |        |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
|     |                |                          |                       |                       |                   | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
| 1   | 2480.000       | 28.36                    | 5.91                  | 35.70                 | 89.51             | 88.08             | 74.00              | -14.08         | Peak   |
| 2   | 4960.000       | 33.13                    | 8.72                  | 35.70                 | 42.37             | 48.52             | 74.00              | 25.48          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Ant 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 Analyzer | Agilent      | E4446A      | US44300459 | Oct.31, 13 | 1 Year        |
| 2.   | Attenuator        | Agilent      | 8491B       | MY39262165 | Apr.24,14  | 1 Year        |
| 3.   | RF Cable          | Hubersuhner  | SUCOFLEX102 | 28618/2    | Apr.24,14  | 1 Year        |

### 5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is 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.

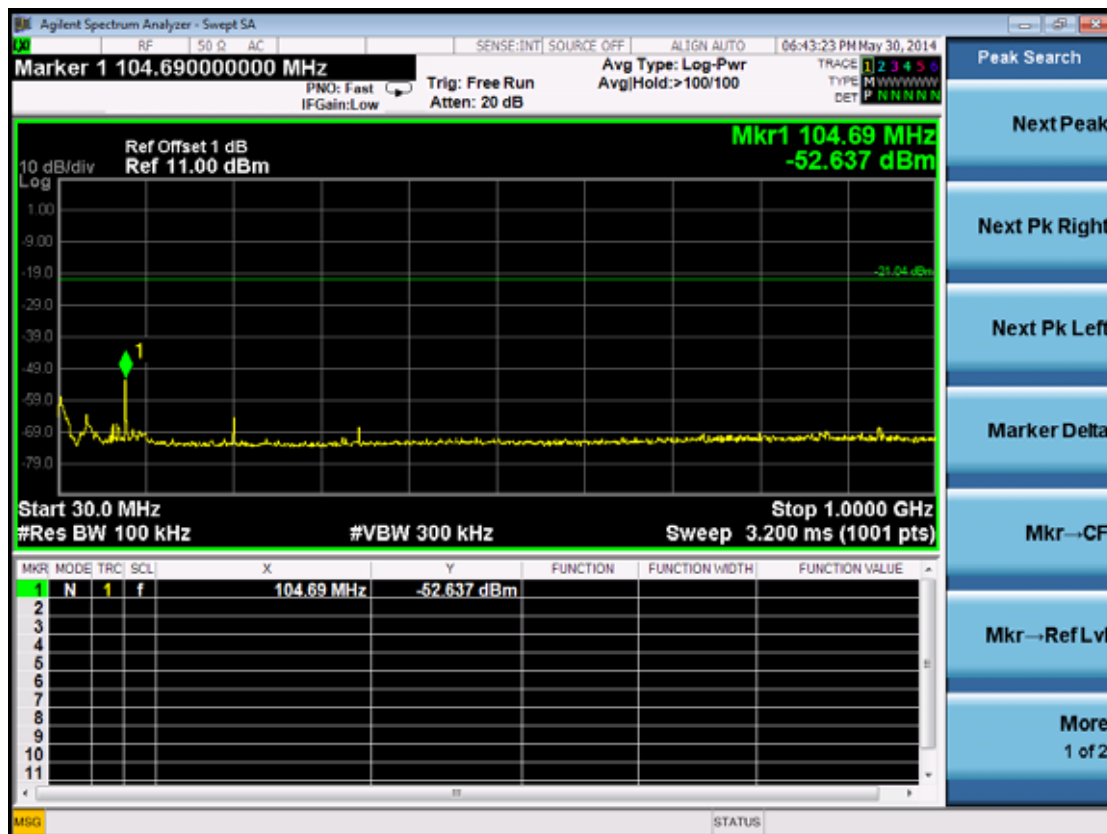
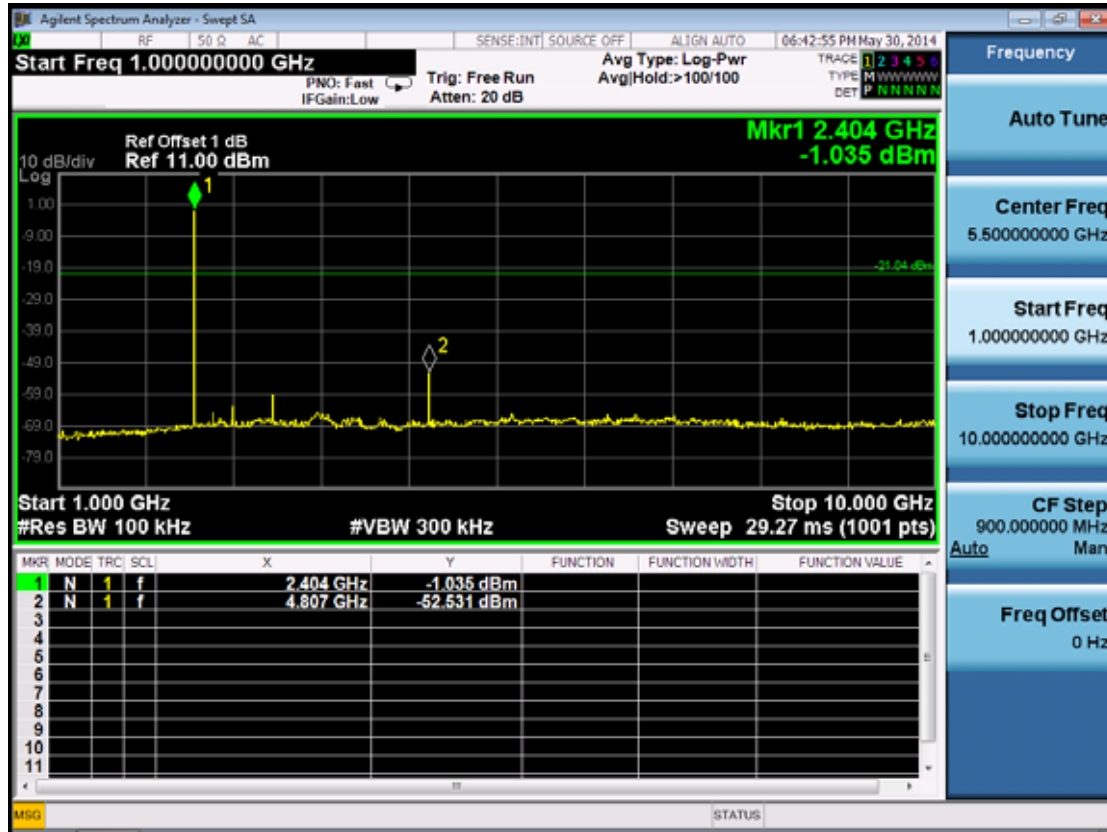
### 5.3. Test Procedure

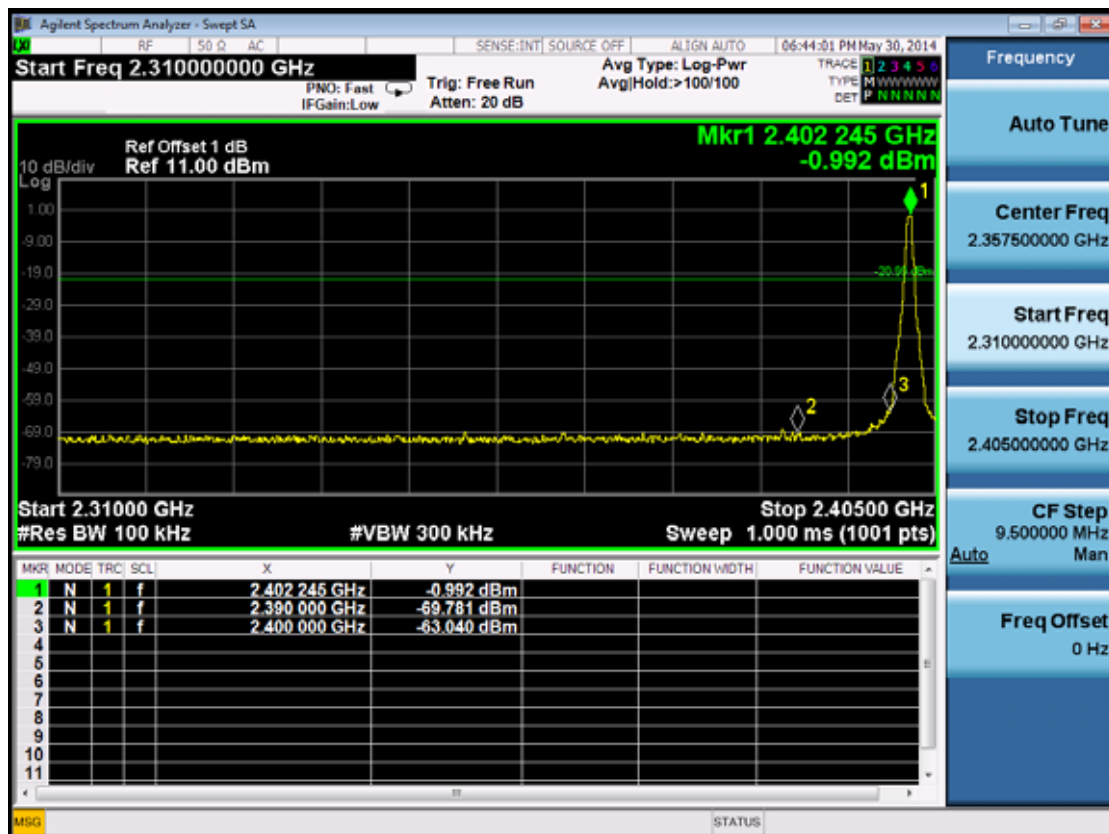
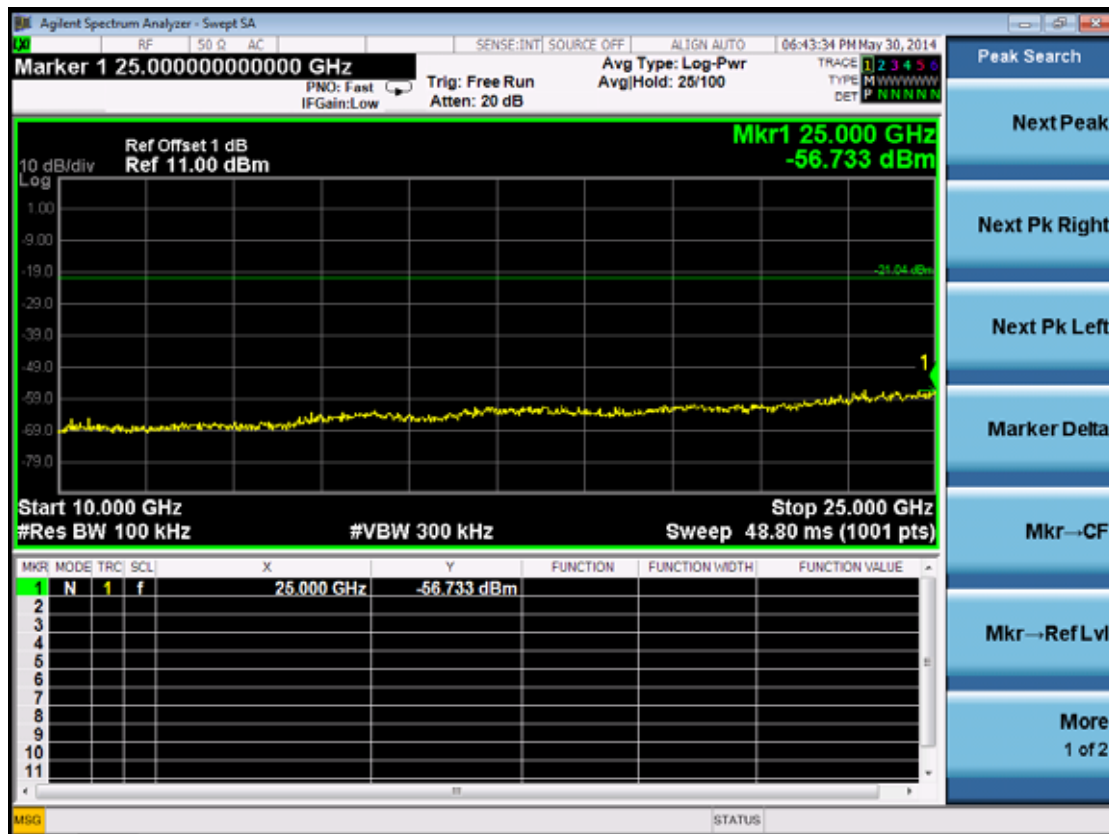
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

### 5.4. Test result

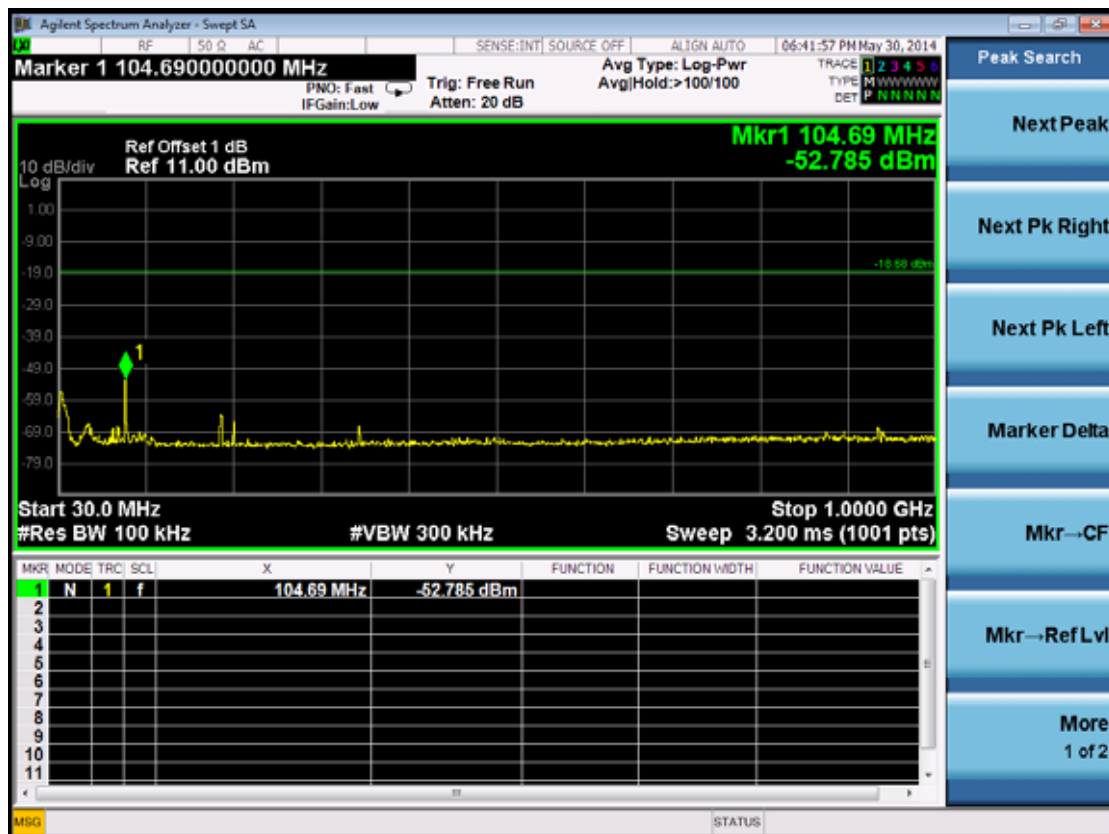
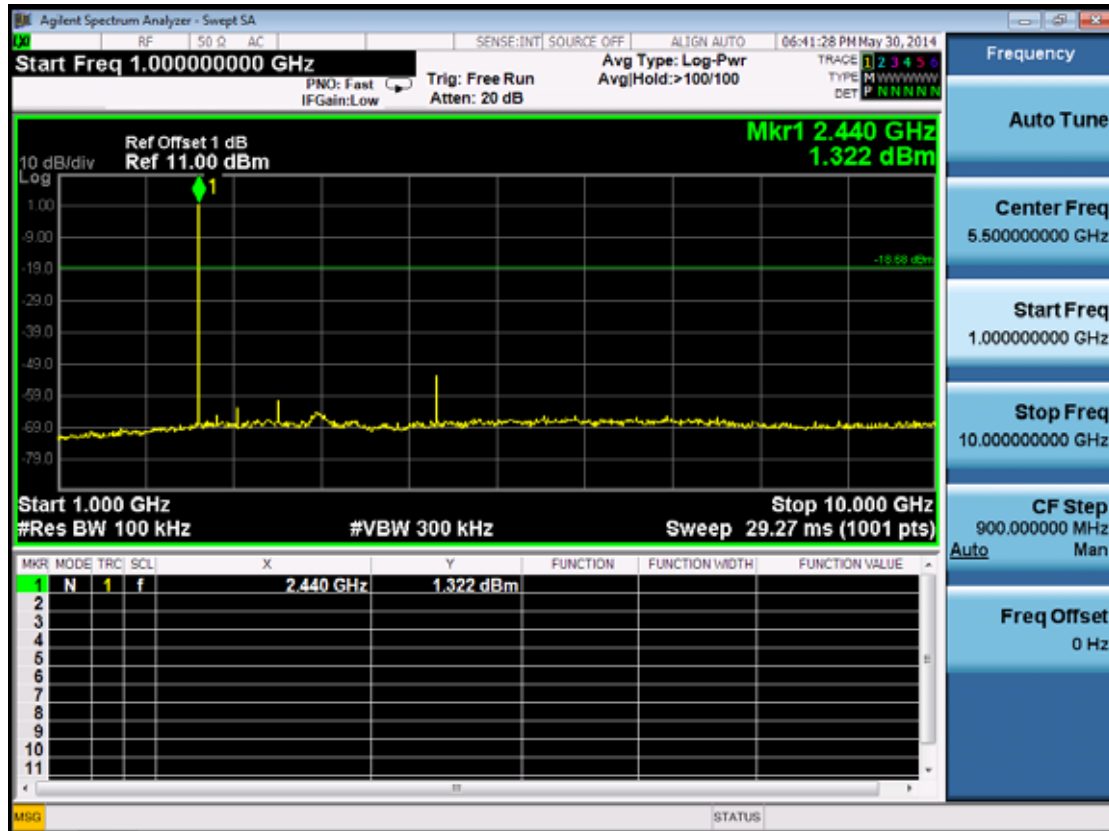
**PASS** (The testing data was attached in the next pages.)

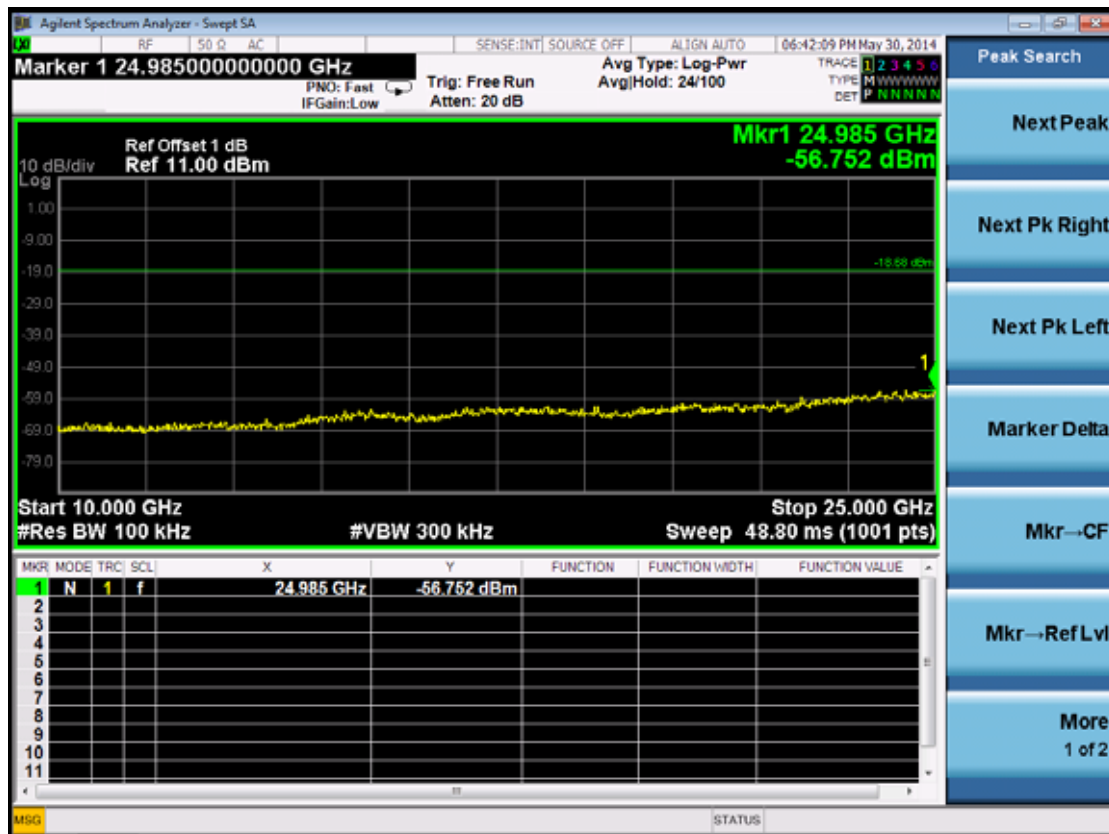
## GFSK 2402MHz



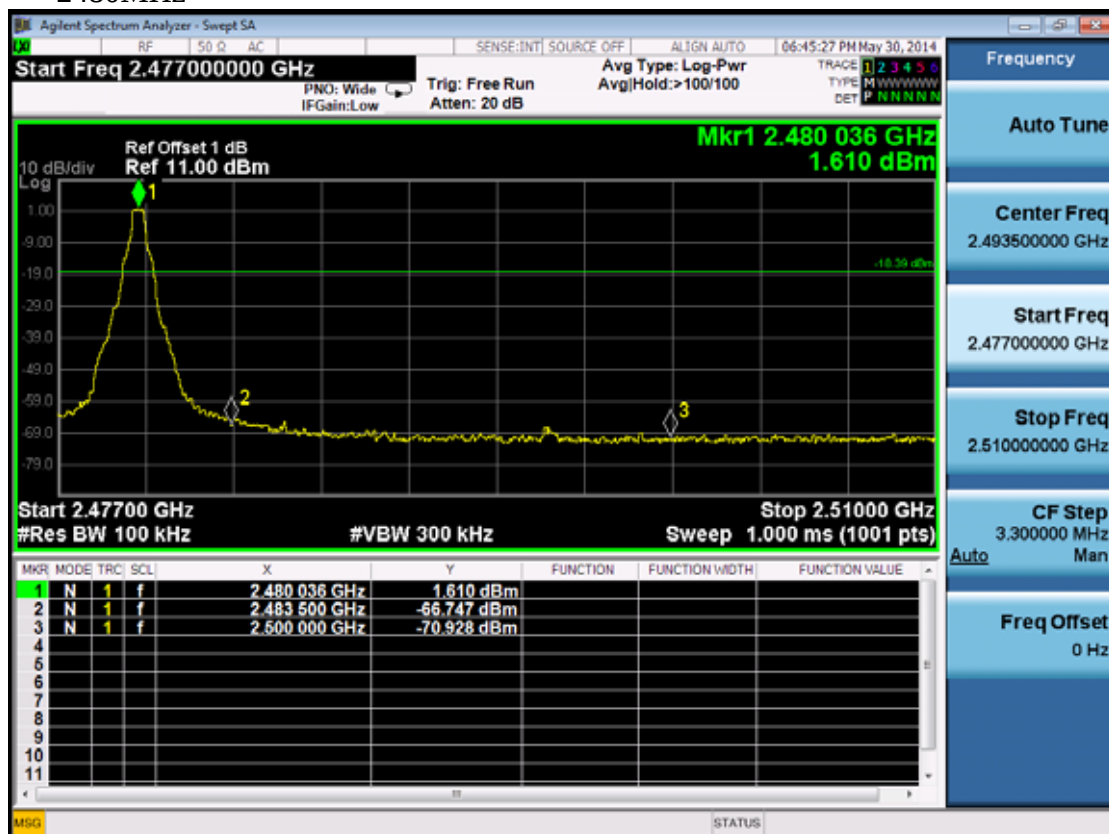


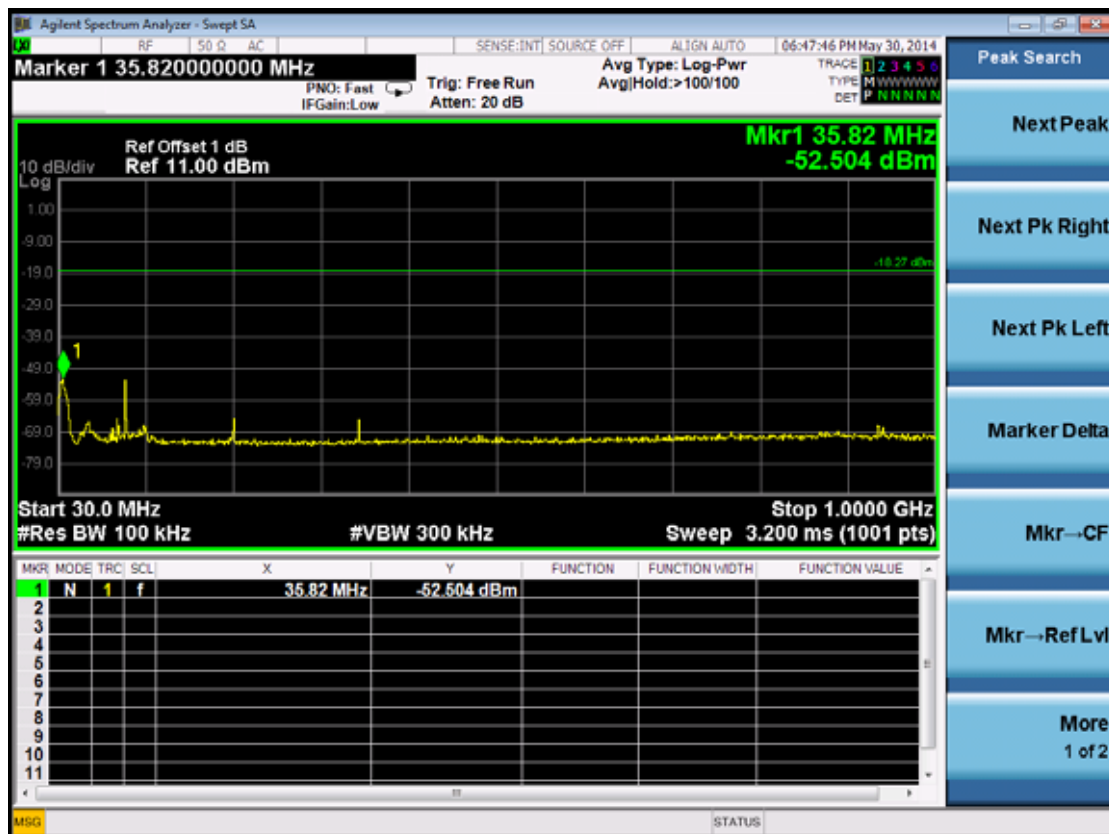
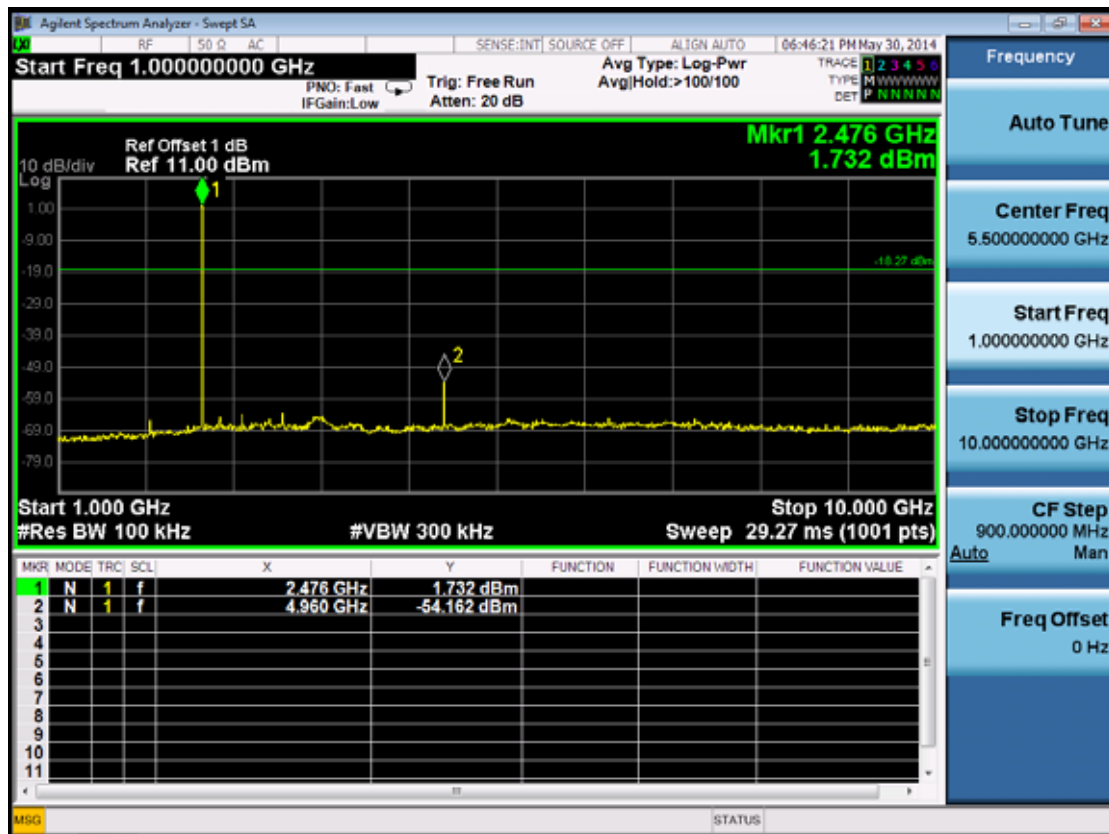
2441MHz

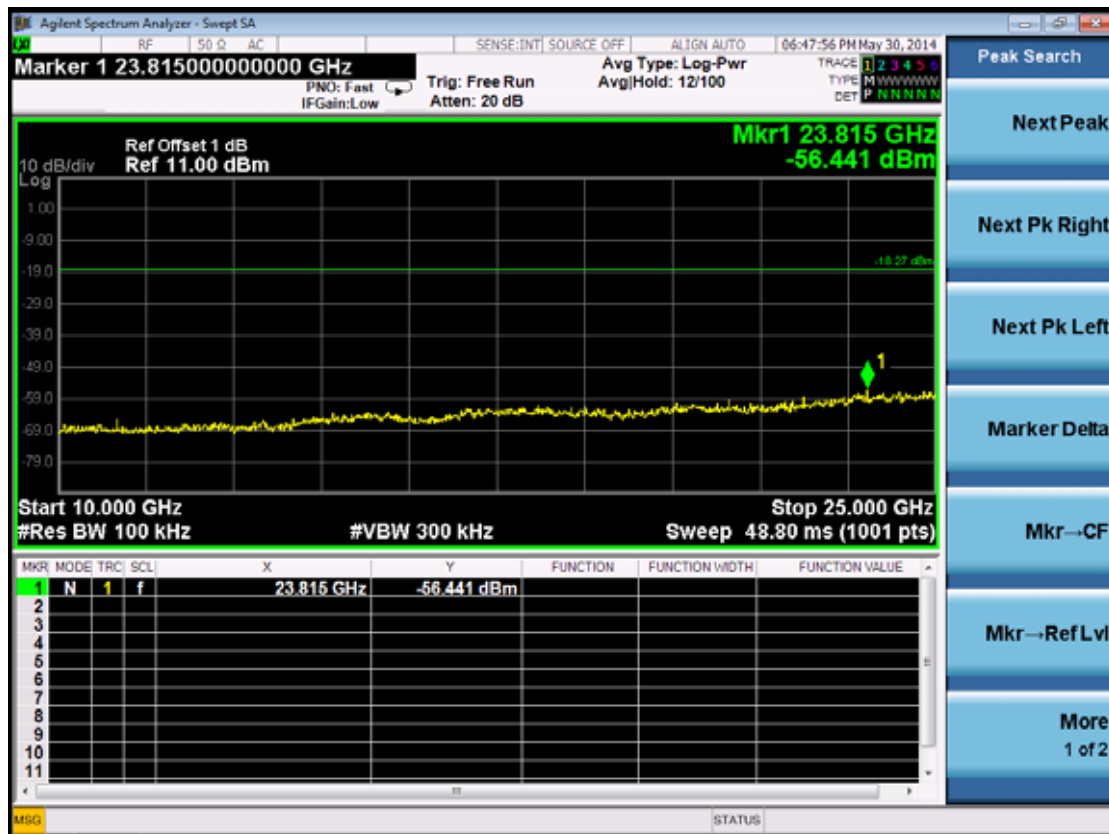




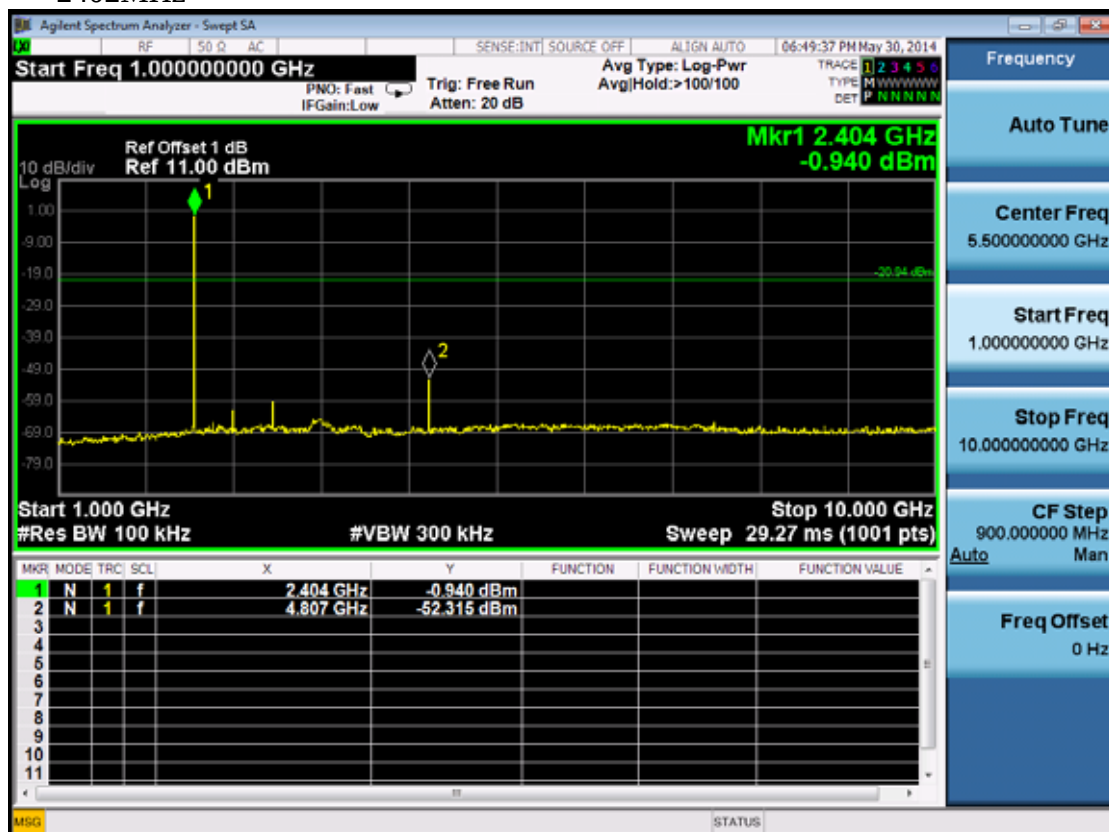
2480MHz

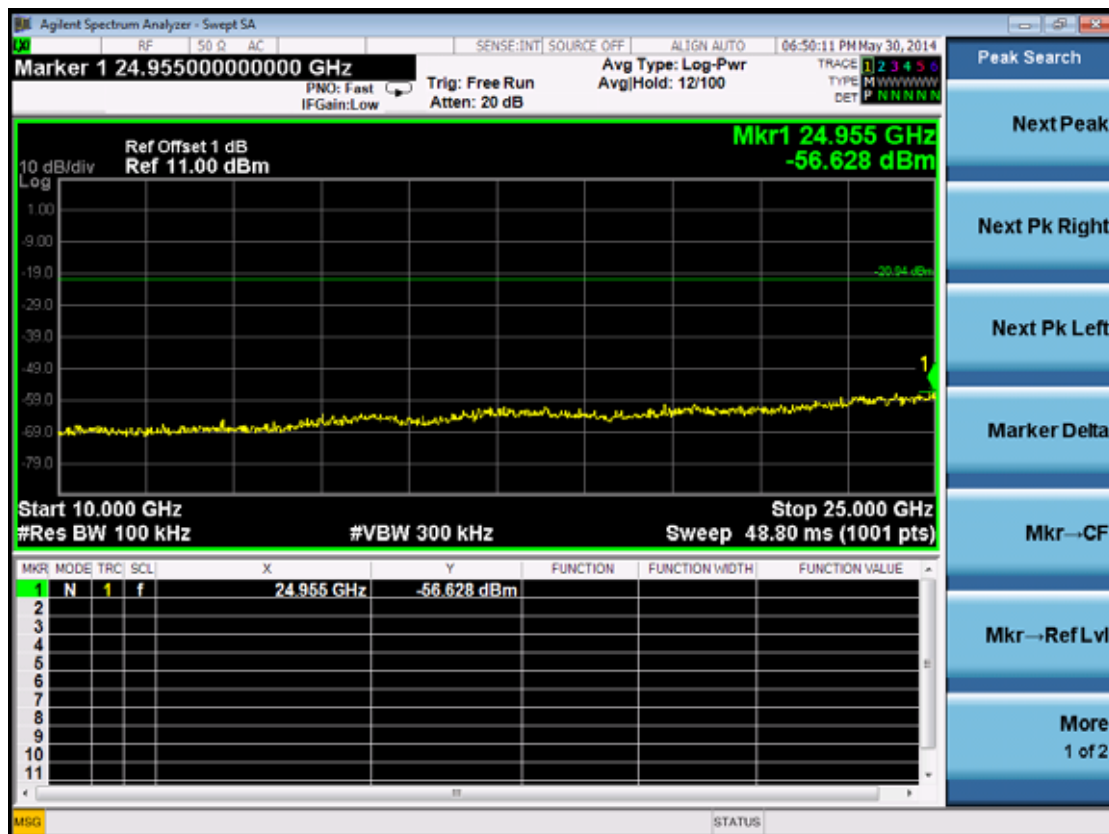
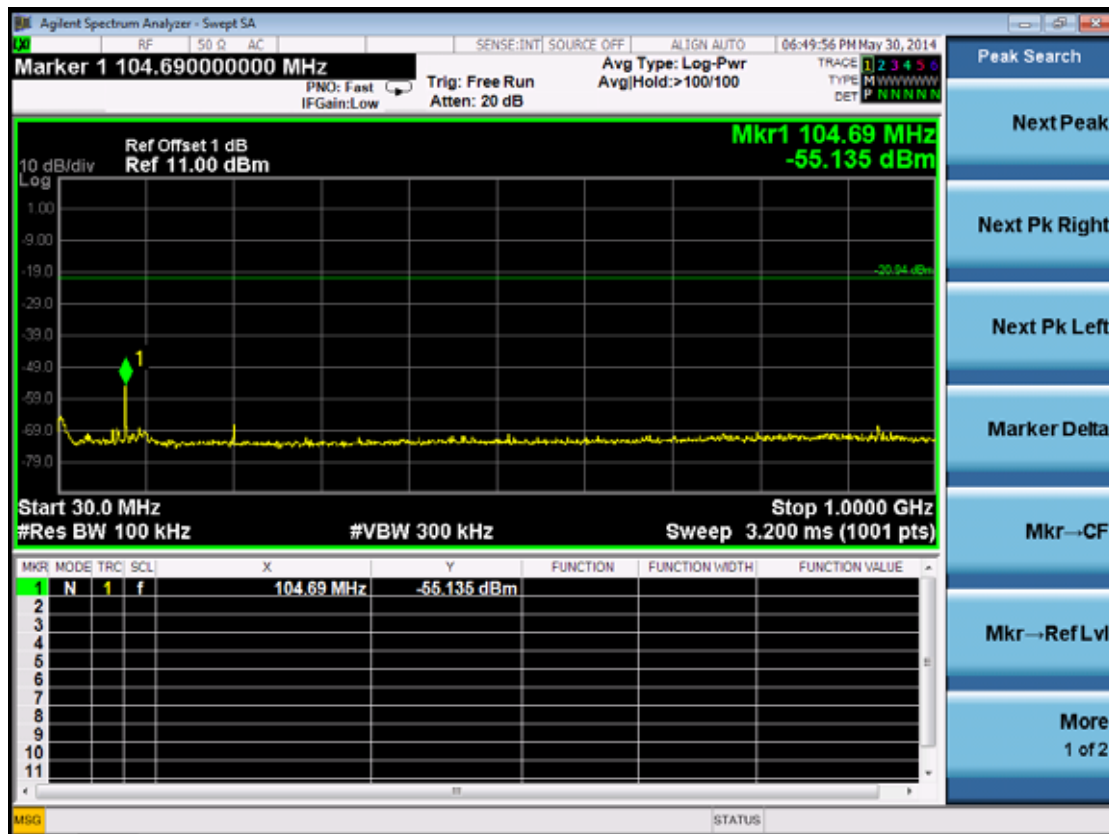


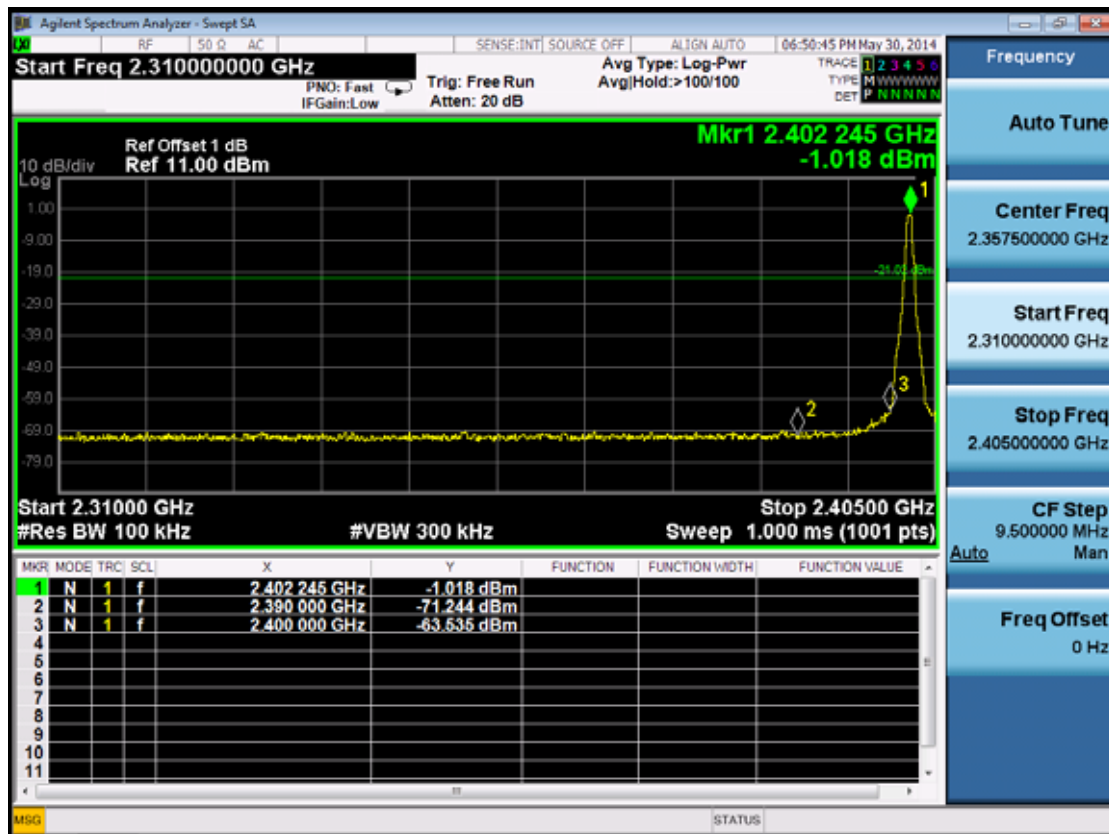




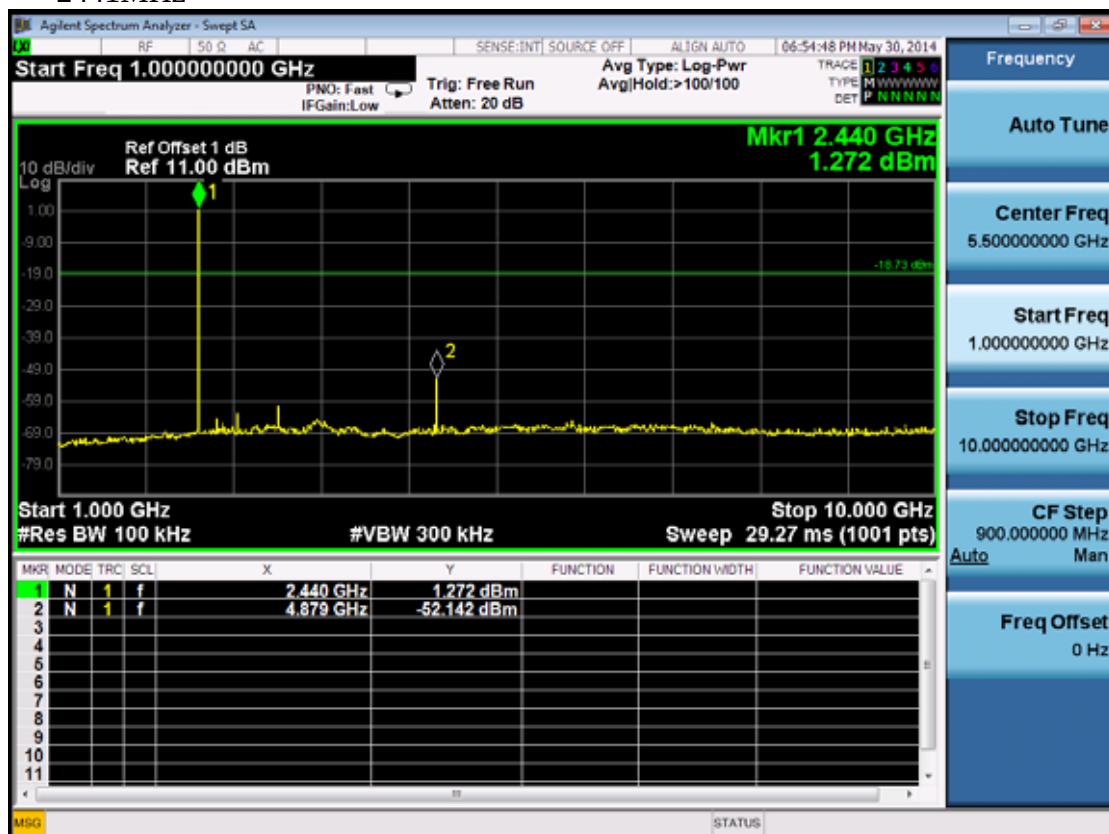
8-DPSK  
2402MHz

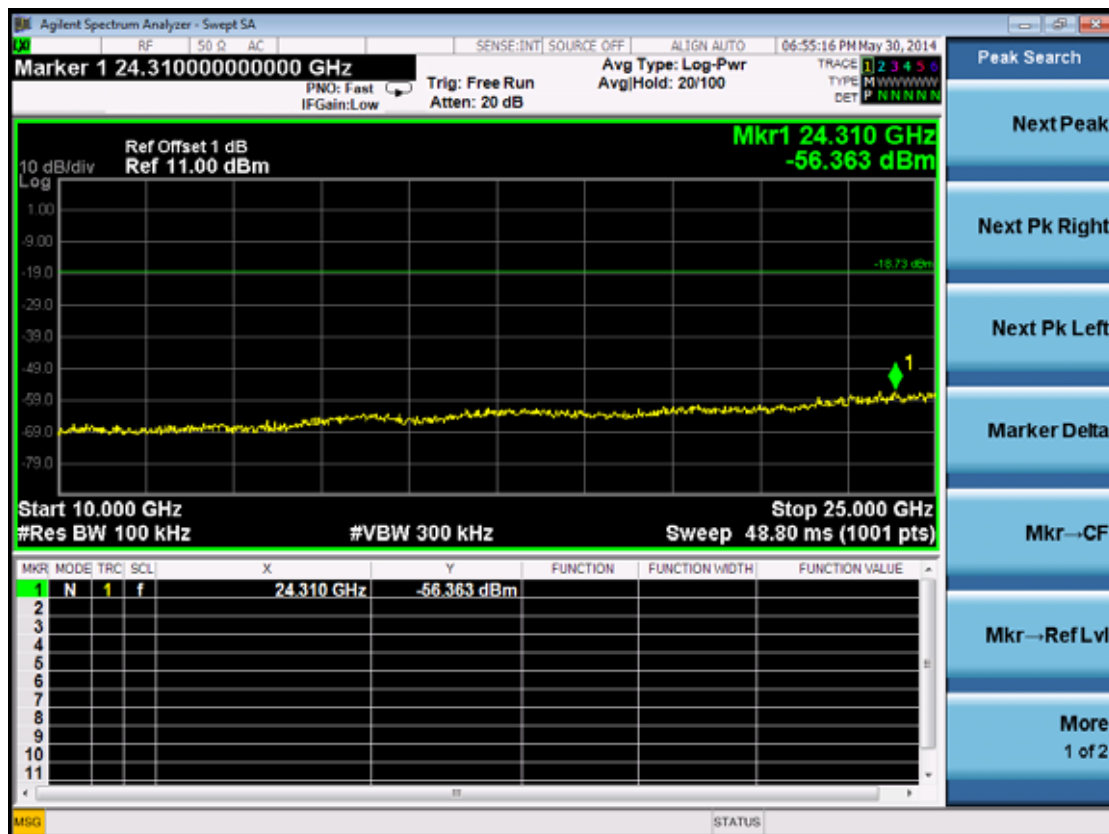
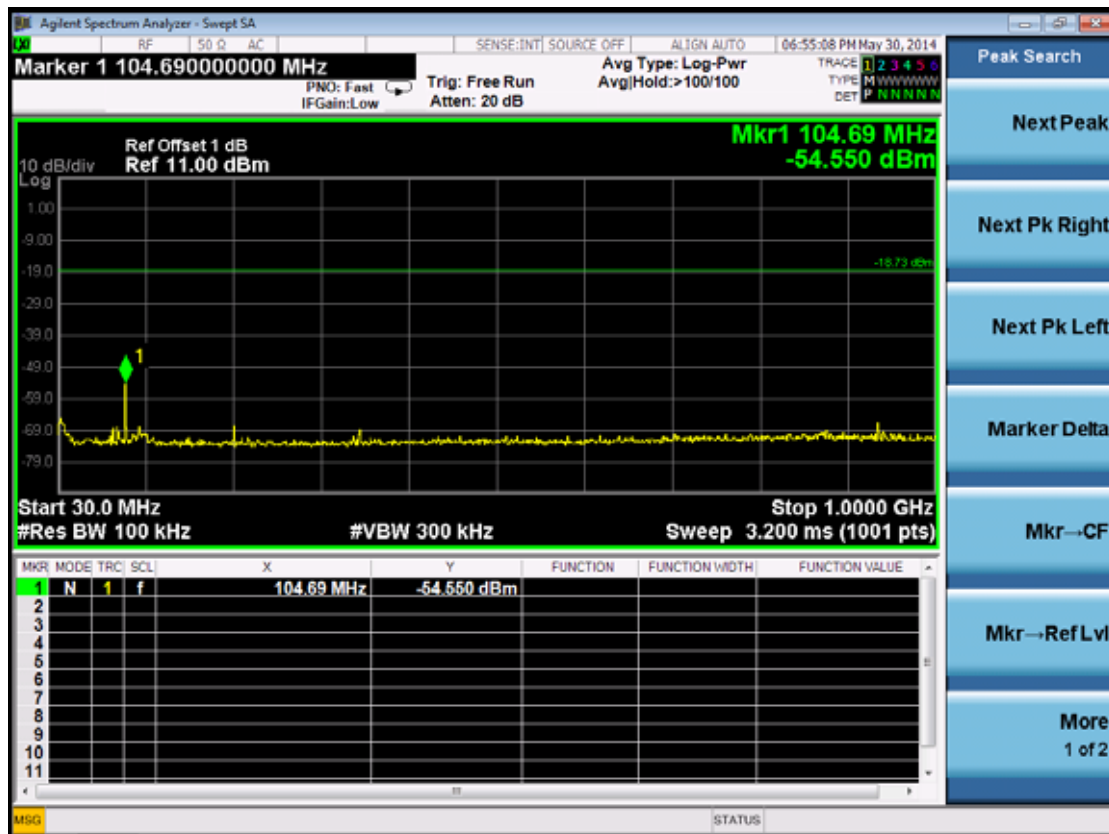




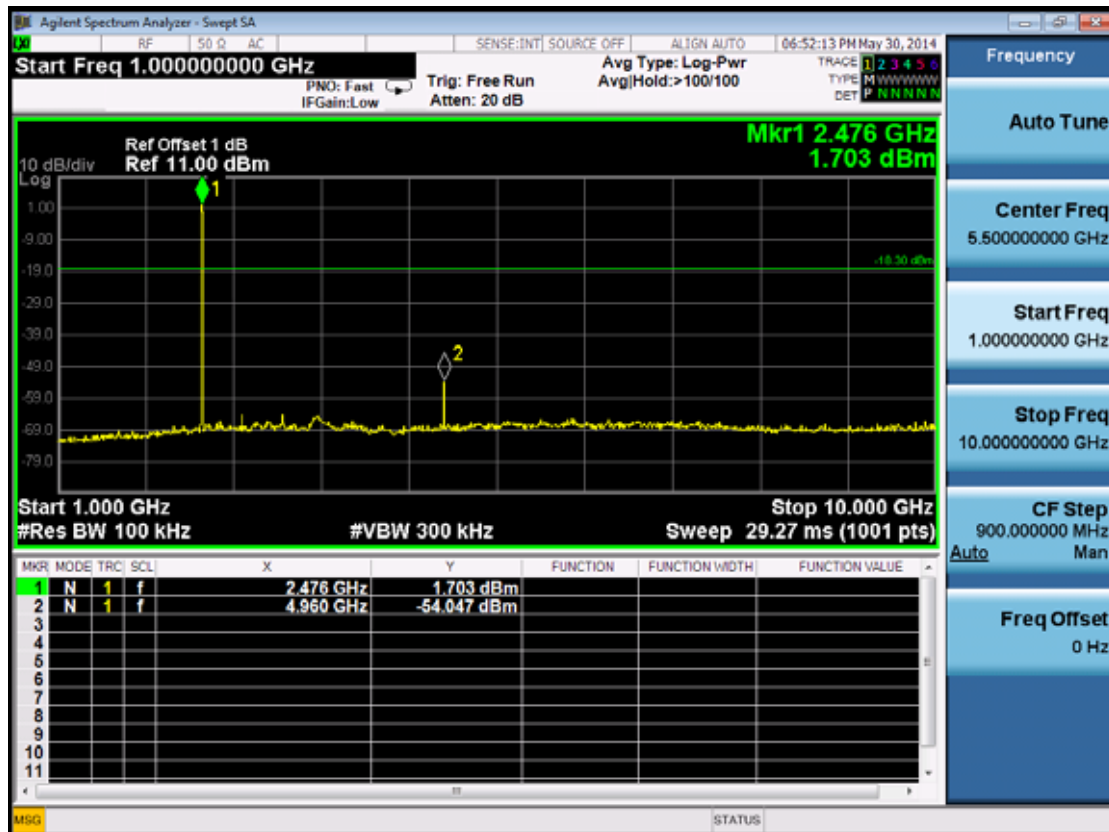
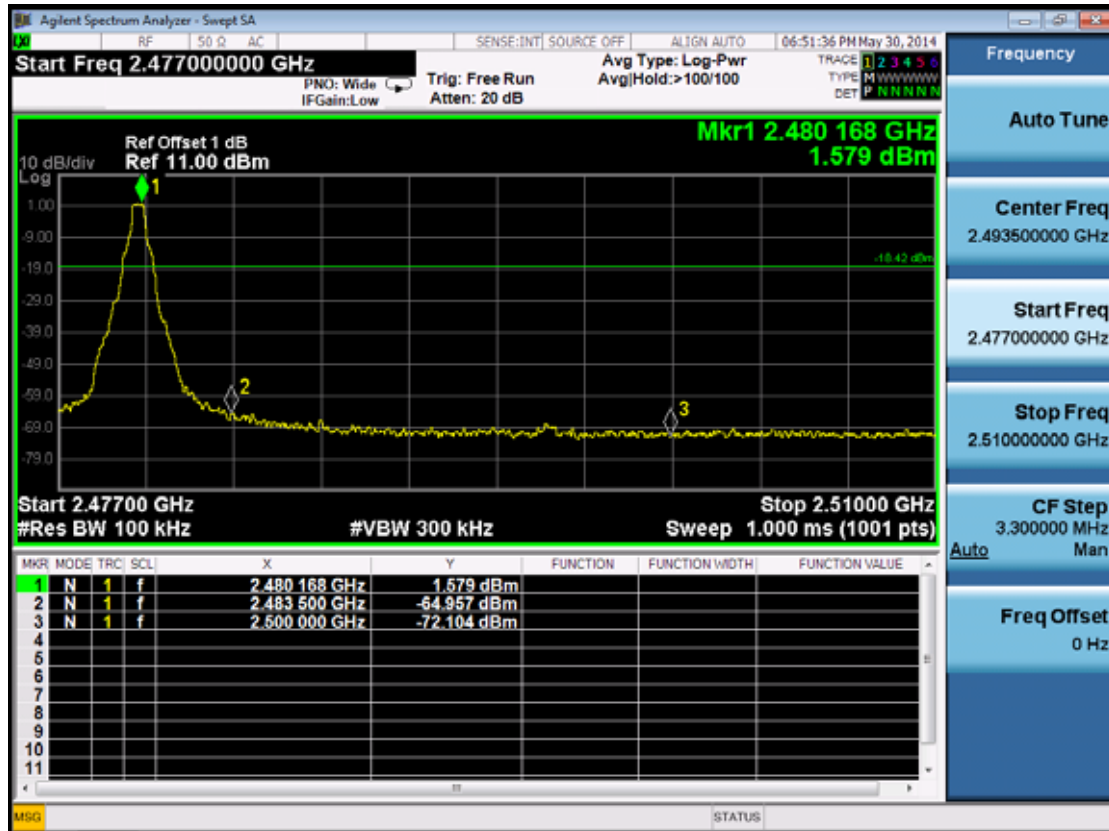


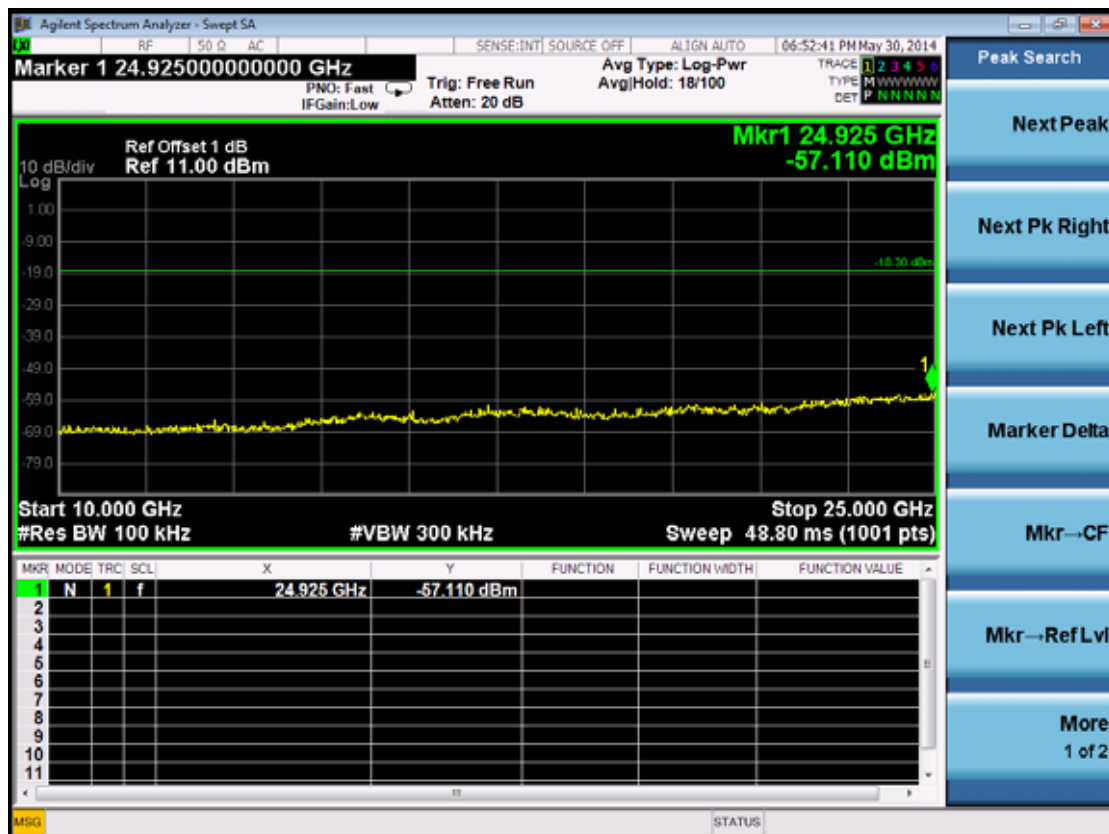
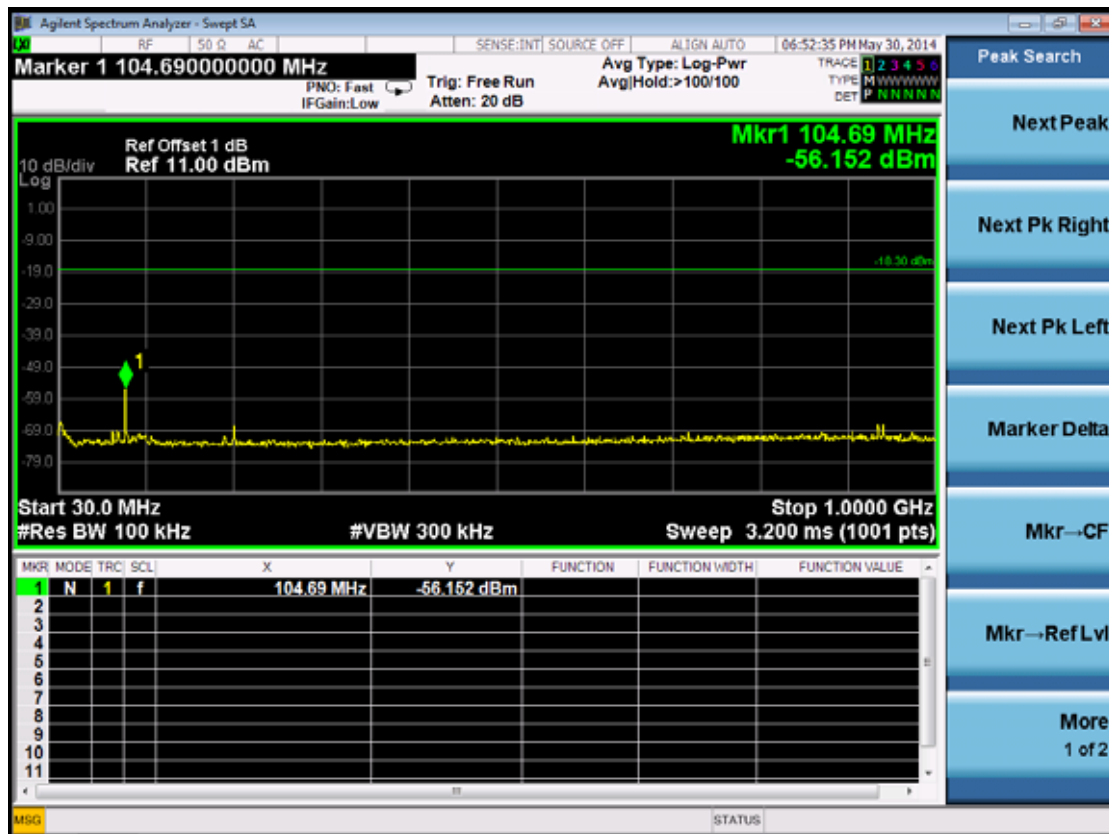
2441MHz



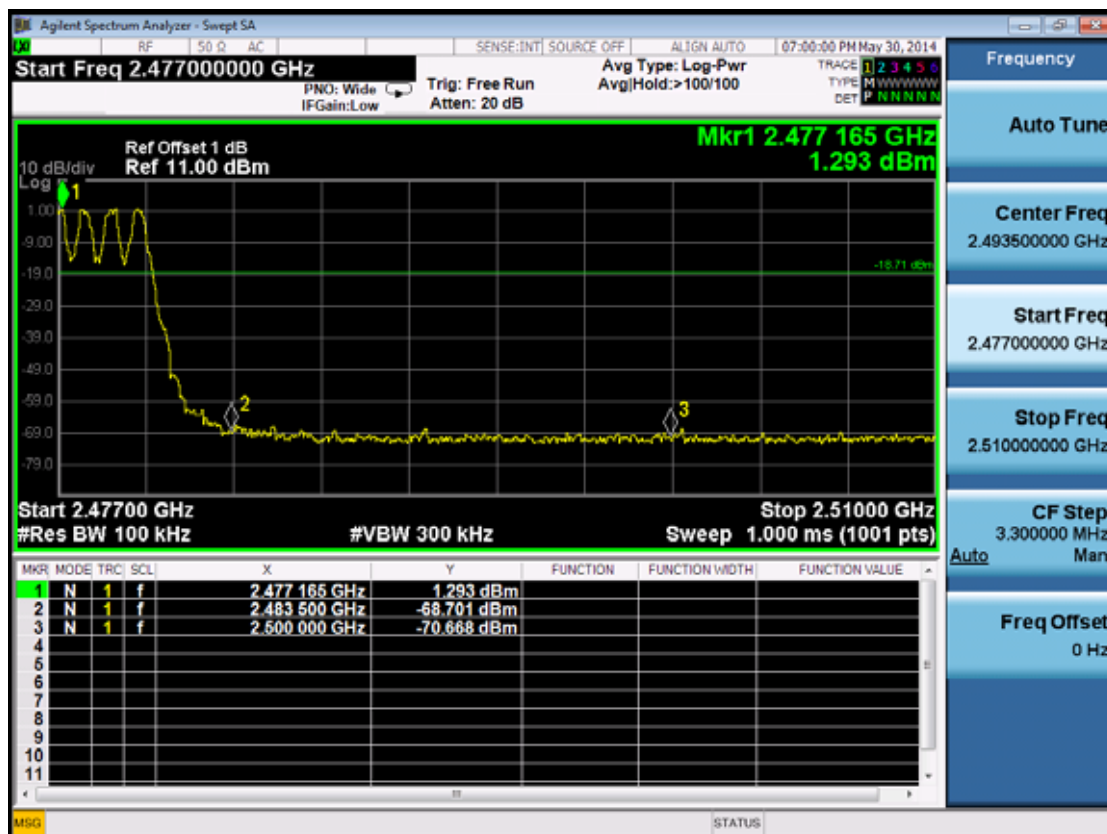
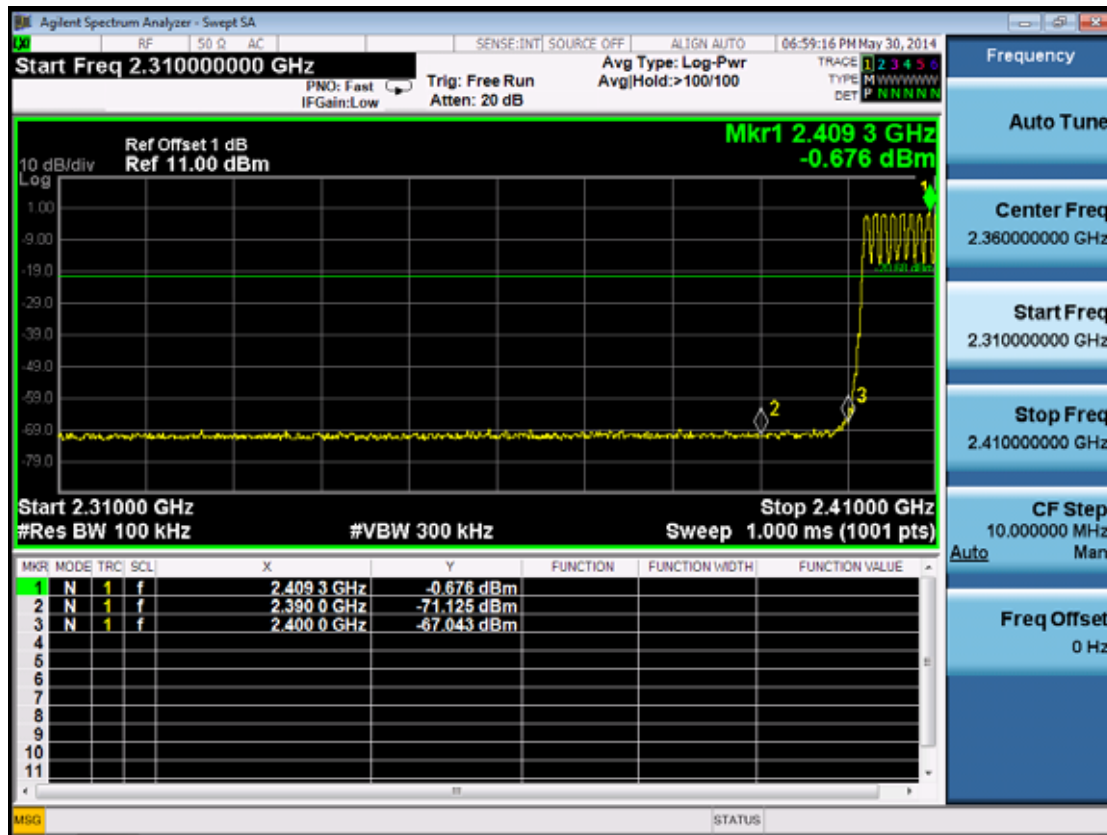


2480MHz

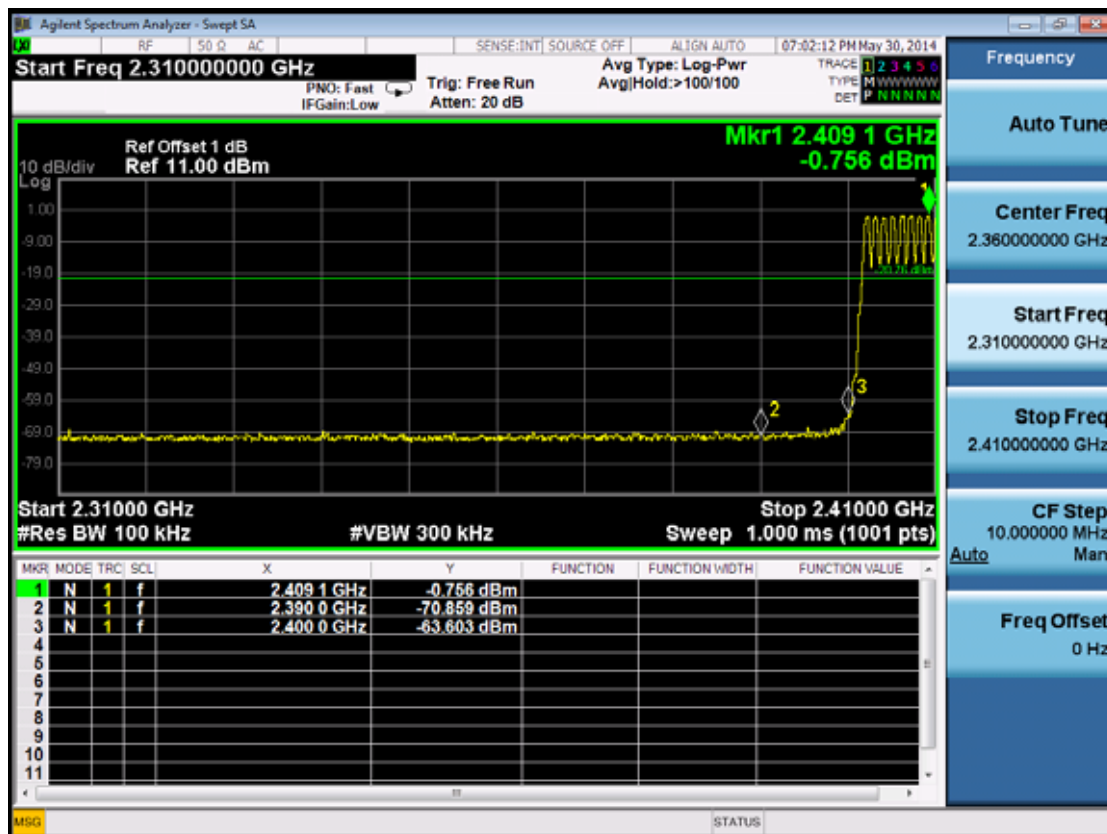
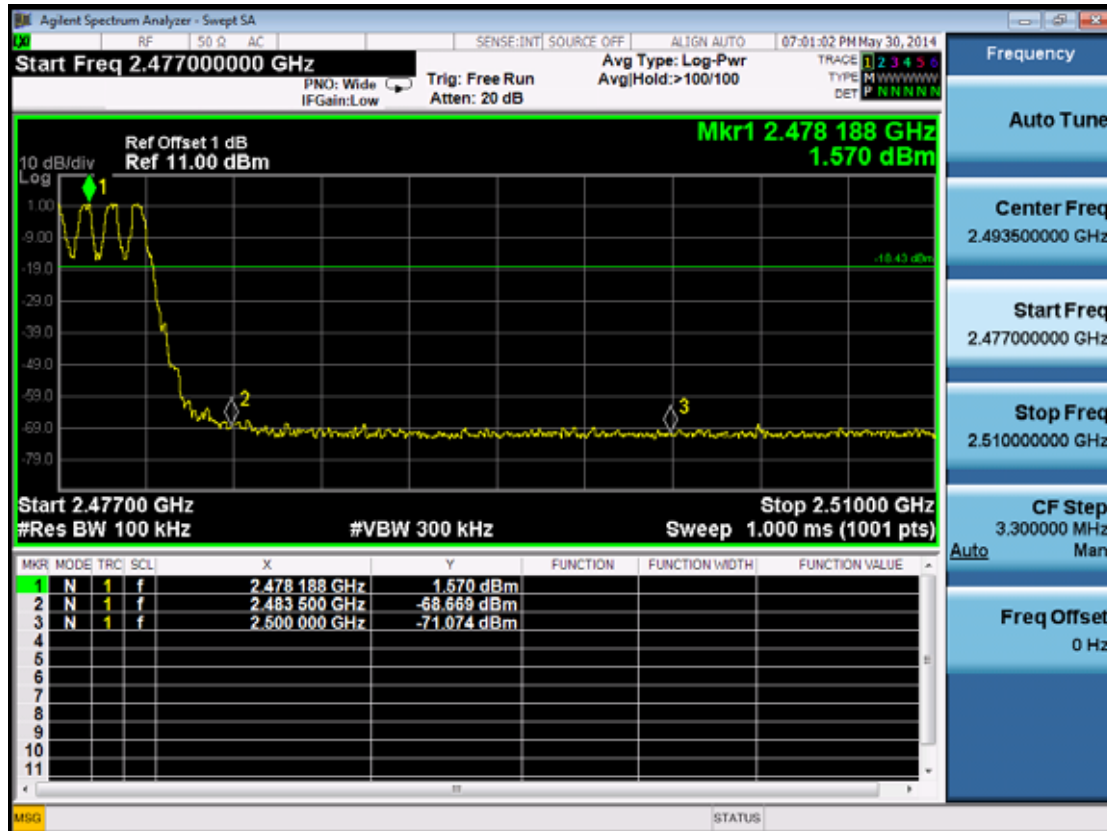




## Hopping on GFSK



## 8 DPSK



## 6. CARRIER FREQUENCY SEPARATION TEST

### 6.1. Test Equipment

| Item | Equipment         | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal. Interval |
|------|-------------------|--------------|-----------|------------|------------|---------------|
| 1    | Spectrum Analyzer | Agilent      | N9030A    | MY51380221 | Oct.31, 13 | 1Year         |

### 6.2. 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.

### 6.3. Test Results.

|                        |                         |                         |
|------------------------|-------------------------|-------------------------|
| EUT: Dell Cast Adapter |                         |                         |
| M/N: BEL01             |                         |                         |
| Test date: 2014-05-30  | Pressure: 101.1±1.0 kpa | Humidity: 51.2±3.0%     |
| Tested by: Leo-Li      | Test site: RF Site      | Temperature : 23.2±0.6℃ |

| Test Mode | Channel separation | Conclusion |
|-----------|--------------------|------------|
| 8-DPSK    | 1.0MHz             | PASS       |
| GFSK      | 1.0MHz             | PASS       |



## 7. 20 DB BANDWIDTH TEST

### 7.1.Test Equipment

| Item | Equipment         | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal. Interval |
|------|-------------------|--------------|-----------|------------|------------|---------------|
| 1.   | Spectrum Analyzer | Agilent      | N9030A    | MY51380221 | Oct.31, 13 | 1Year         |

### 7.2.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.

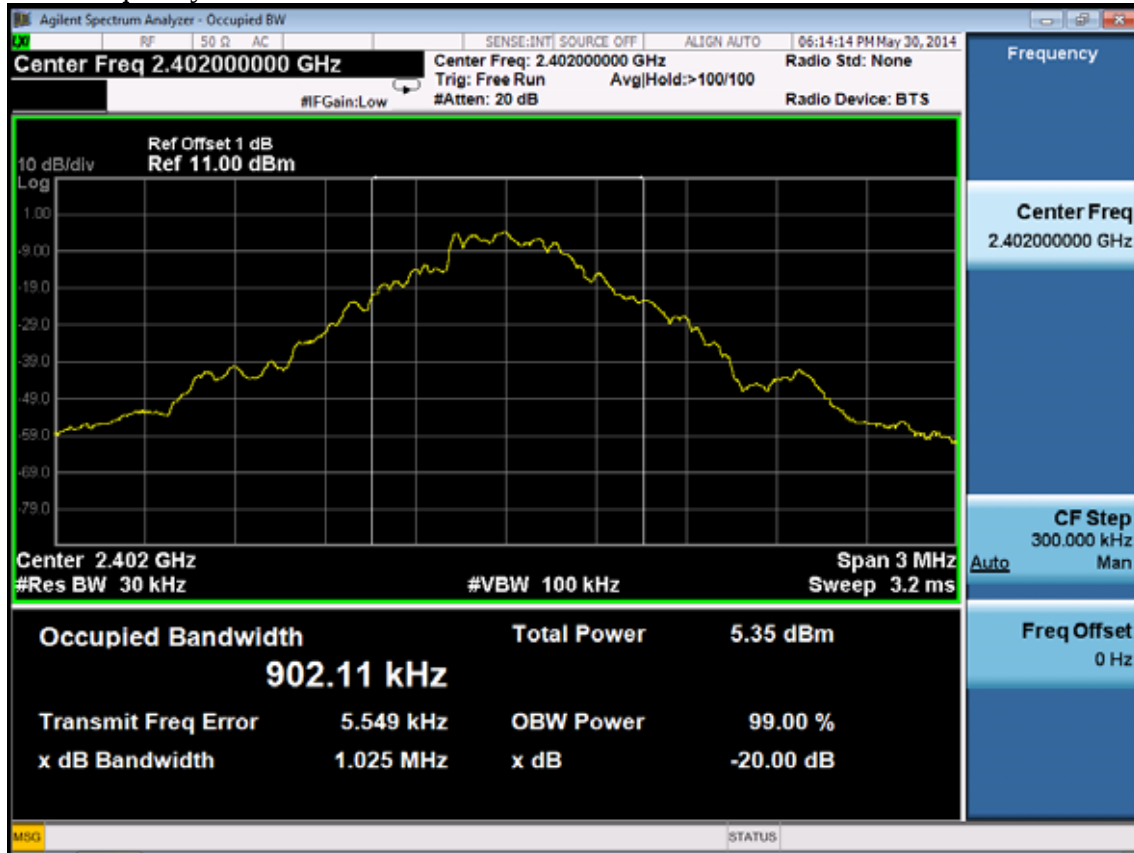
### 7.3.Test Results

|                        |                         |                        |
|------------------------|-------------------------|------------------------|
| EUT: Dell Cast Adapter |                         |                        |
| M/N: BEL01             |                         |                        |
| Test date: 2014-06-25  | Pressure: 101.1±1.0 kpa | Humidity: 49.1±3.0%    |
| Tested by: Leo-Li      | Test site: RF Site      | Temperature: 22.5±0.6℃ |

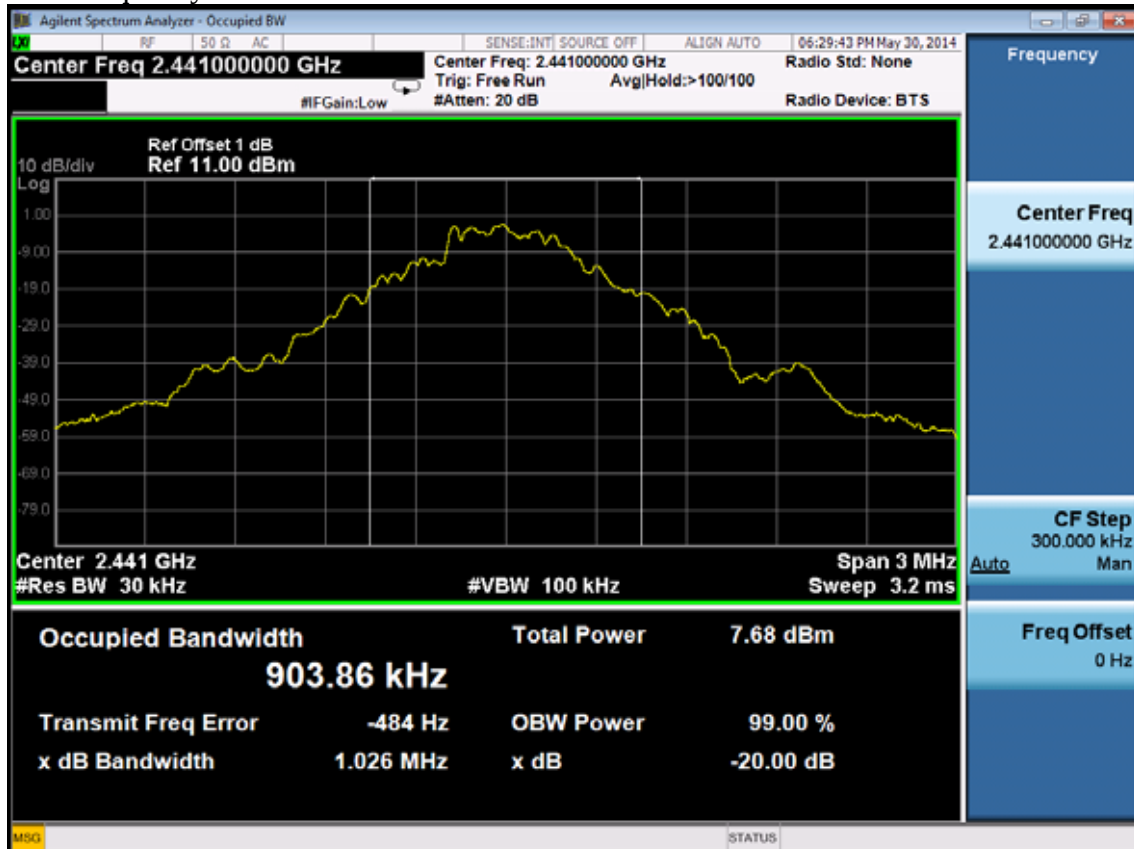
| Cable loss: 1 dB  |               |                           |                |
|-------------------|---------------|---------------------------|----------------|
| Test Mode         | CH<br>( MHz ) | 20dB bandwidth<br>( KHz ) | Limit<br>(KHz) |
| GFSK              | 2402          | 1025                      | N/A            |
|                   | 2441          | 1026                      | N/A            |
|                   | 2480          | 1027                      | N/A            |
| 8-DPSK            | 2402          | 1.310                     | N/A            |
|                   | 2441          | 1.311                     | N/A            |
|                   | 2480          | 1.312                     | N/A            |
| Conclusion : PASS |               |                           |                |

## GFSK

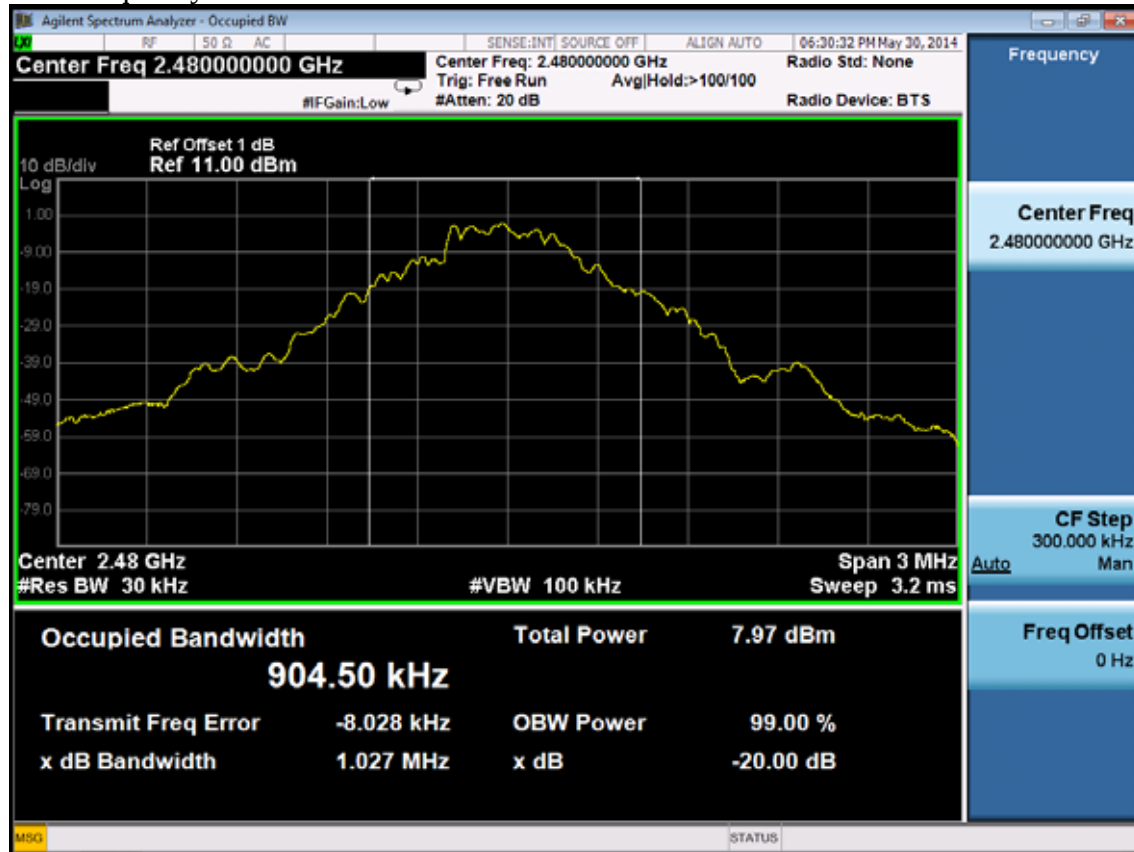
Test Frequency: 2402MHz



Test Frequency: 2441MHz

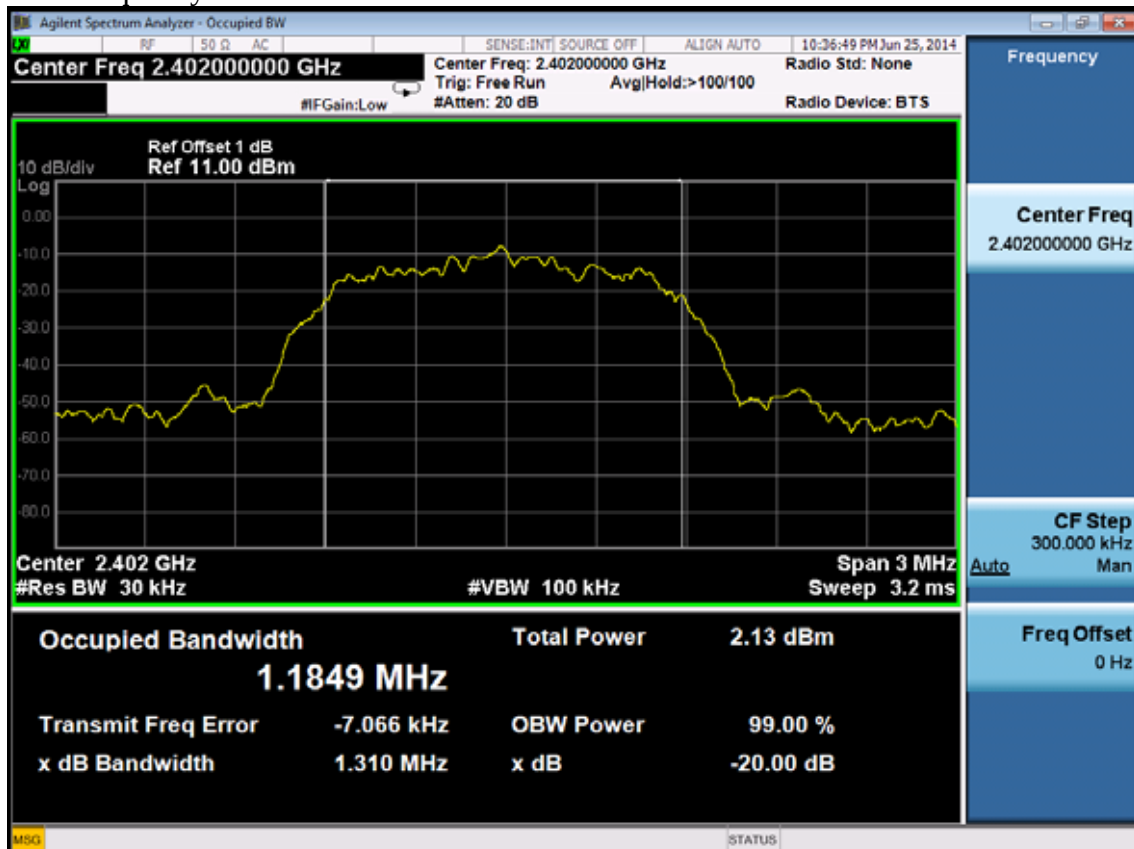


Test Frequency: 2480MHz

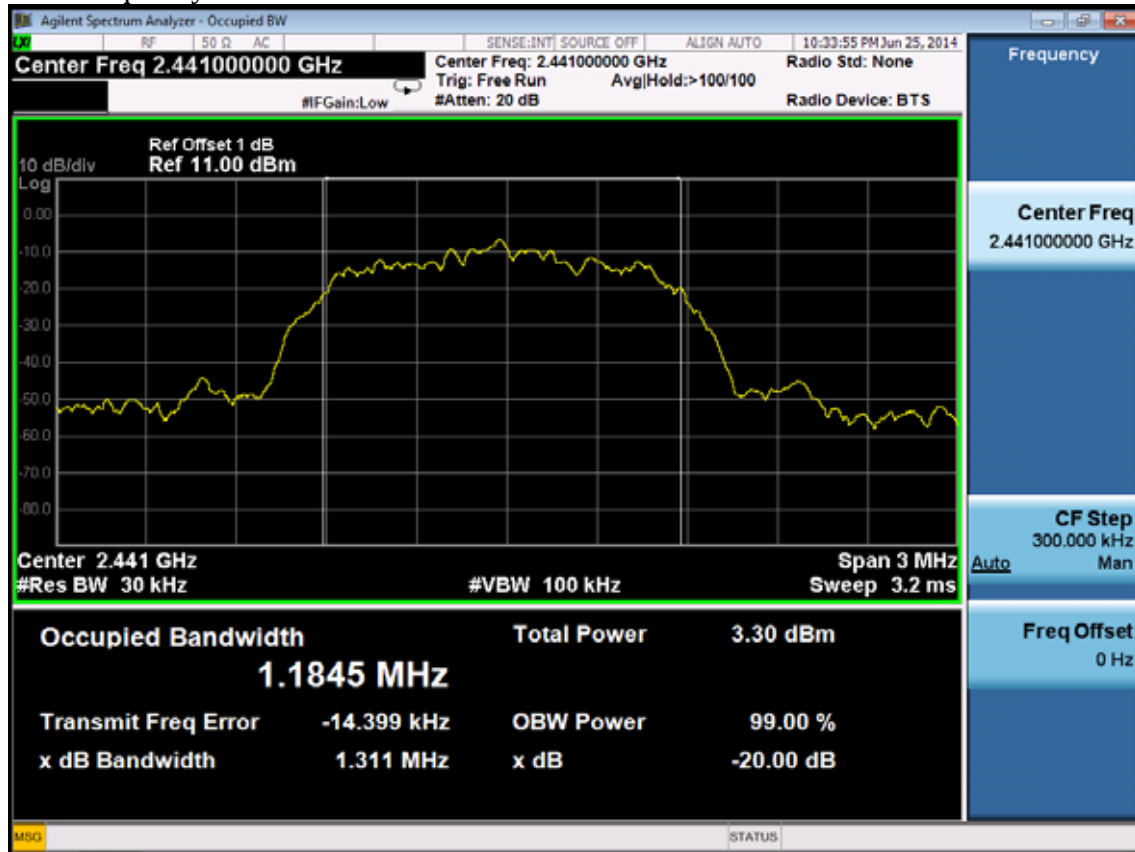


8-DPSK

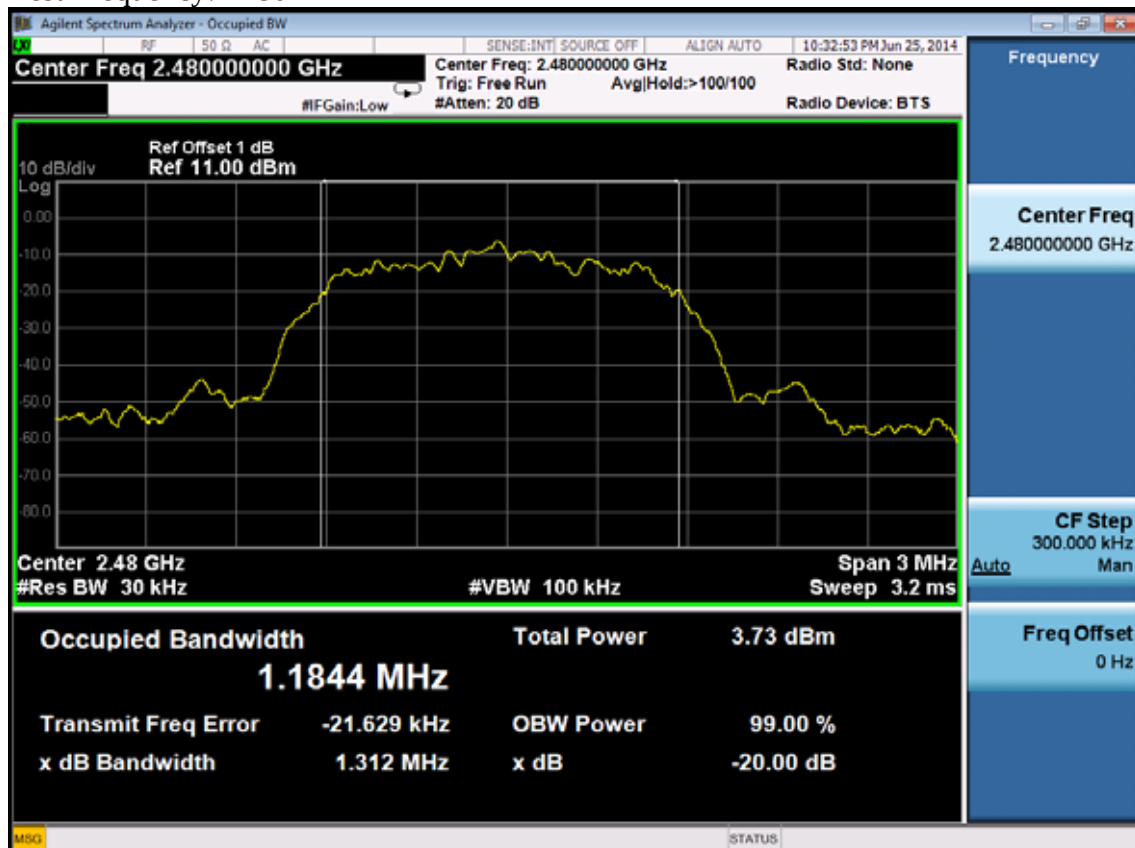
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



## 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.31, 13 | 1Year         |

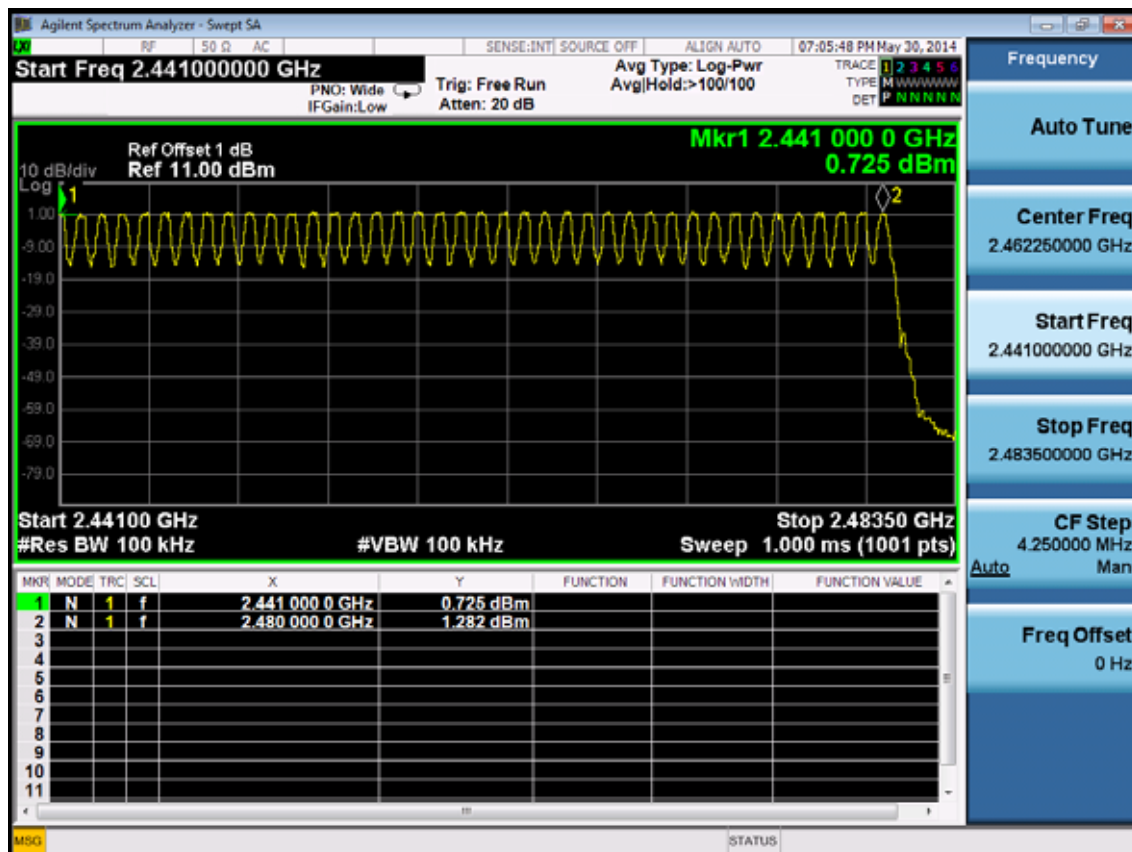
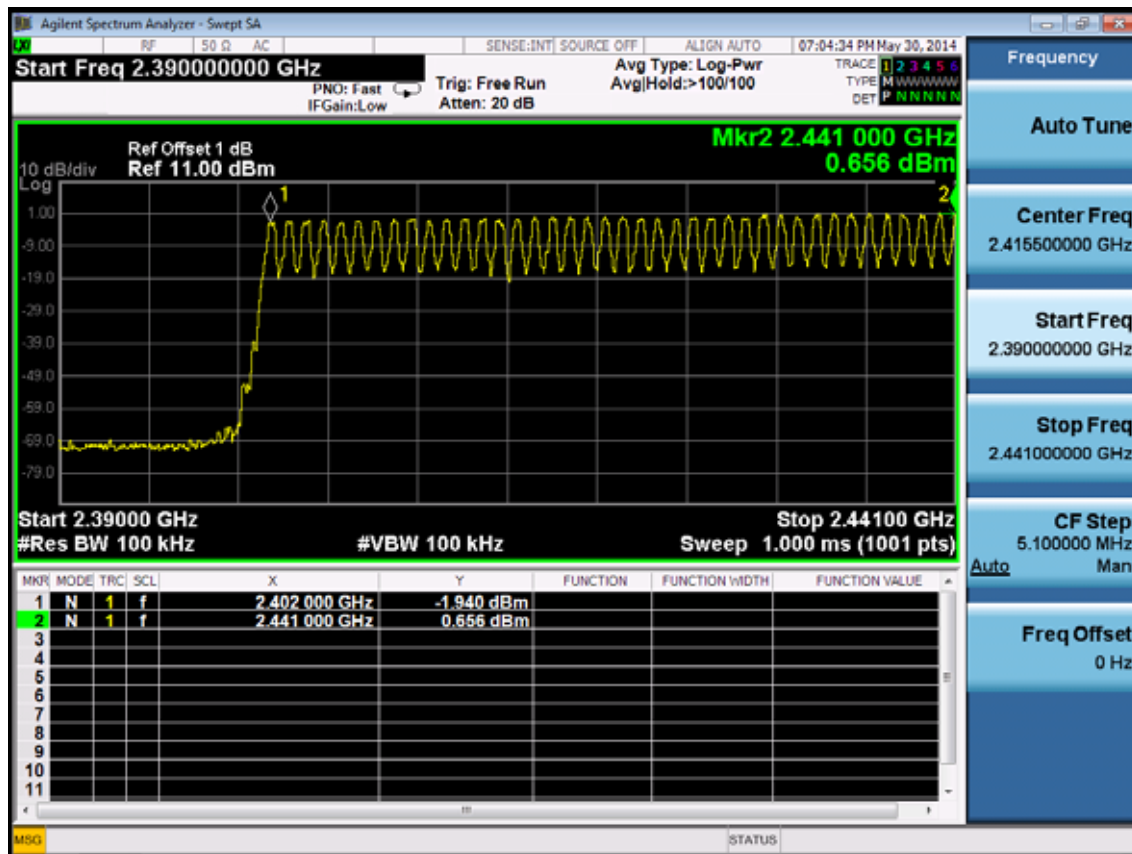
### 8.2. Limit

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

### 8.3. Test Results

|                        |                         |                        |
|------------------------|-------------------------|------------------------|
| EUT: Dell Cast Adapter |                         |                        |
| M/N:BEL01              |                         |                        |
| Test date: 2014-05-30  | Pressure: 101.1±1.0 kpa | Humidity: 52.1±1.0%    |
| Tested by: Leo-Li      | Test site: RF Site      | Temperature: 23.2±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.31, 13 | 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

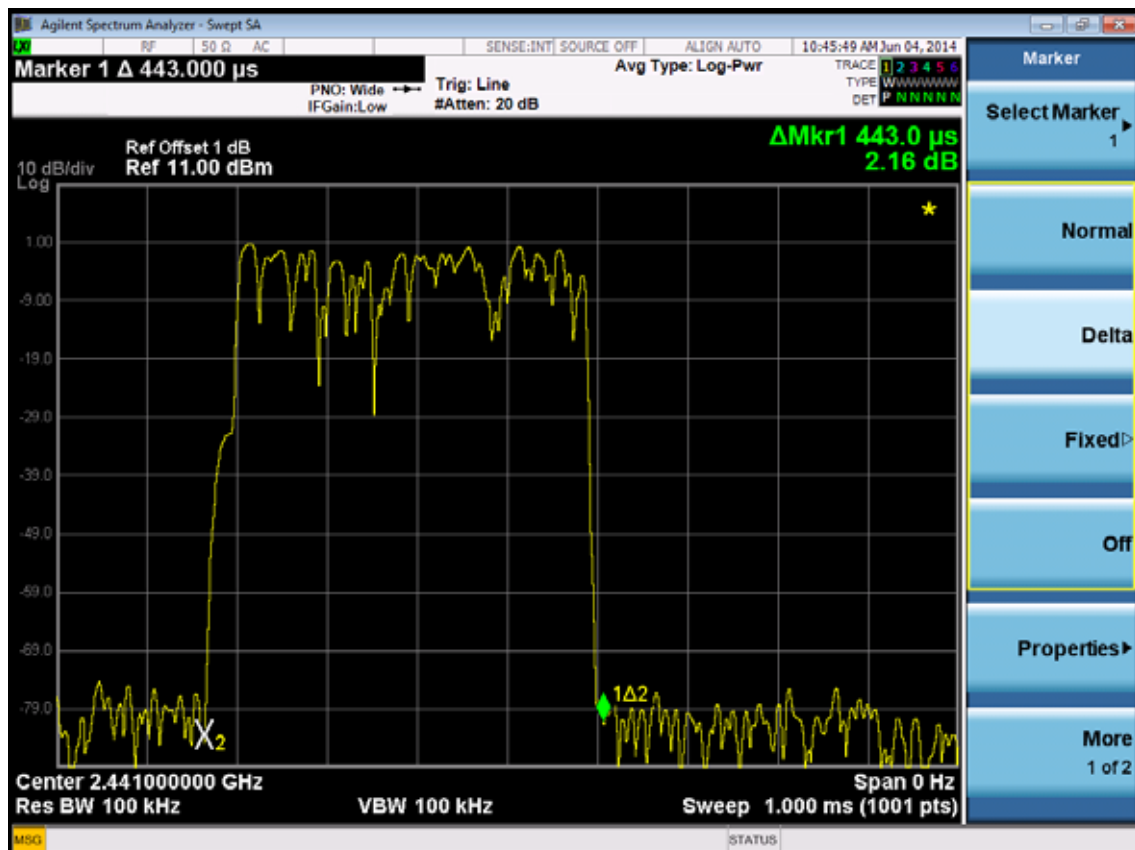
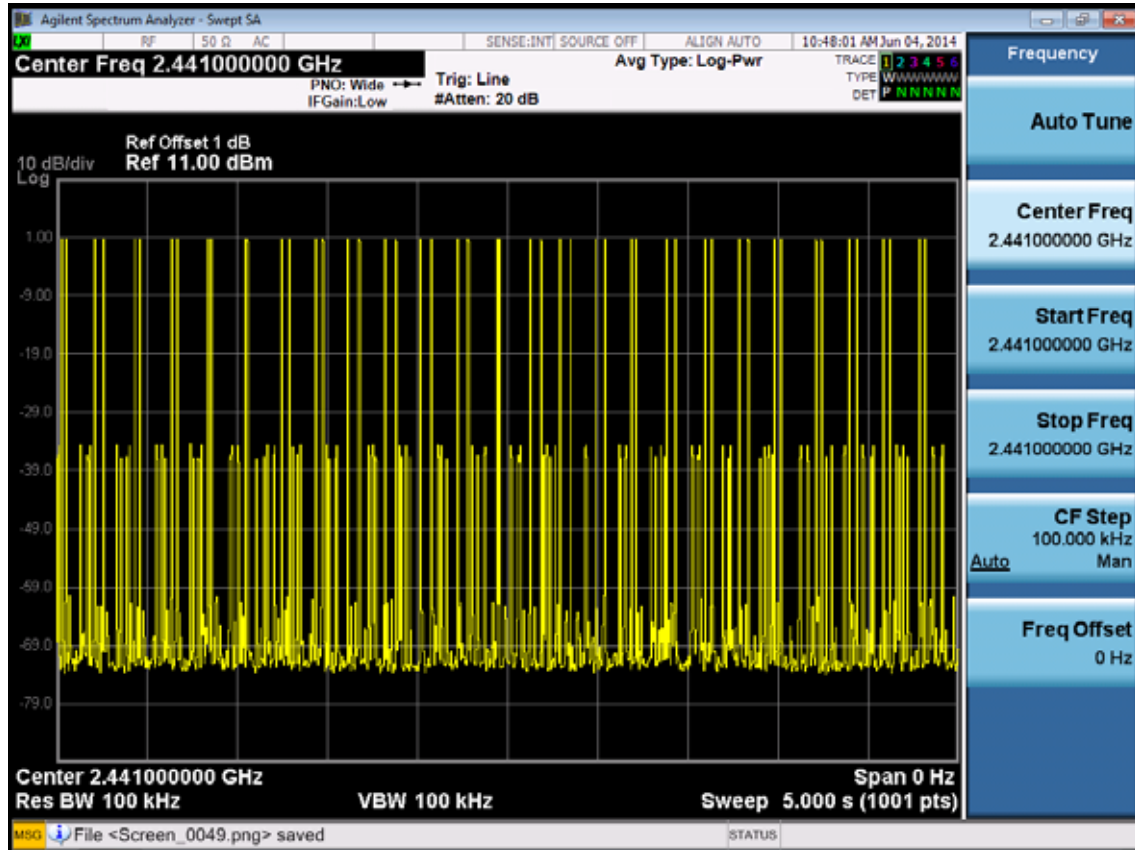
|                        |                         |                        |
|------------------------|-------------------------|------------------------|
| EUT: Dell Cast Adapter |                         |                        |
| M/N:BEL01              |                         |                        |
| Test date: 2014-06-04  | Pressure: 101.1±1.0 kpa | Humidity: 51.2±1.0%    |
| Tested by: Leo-Li      | Test site: RF Site      | Temperature: 22.8±1.0℃ |

| Mode   |     | dwell time                                  | Limit  | Conclusion |
|--------|-----|---------------------------------------------|--------|------------|
| GFSK   | DH1 | 48hops/5s*0.4*79channels*0.493ms =149.56ms  | <400ms | PASS       |
|        | DH3 | 24hops/5s*0.4*79channels*1.758ms =166.65ms  | <400ms | PASS       |
|        | DH5 | 17hops/5s*0.4*79channels*3.000ms=322.32ms   | <400ms | PASS       |
| 8-DPSK | DH1 | 49hops/5s*0.4*79channels*0.505ms =156.39ms  | <400ms | PASS       |
|        | DH3 | 23hops/5s*0.4*79channels*1.752ms =254.67ms  | <400ms | PASS       |
|        | DH5 | 13hops/5s*0.4*79channels*3.010ms =247.302ms | <400ms | PASS       |

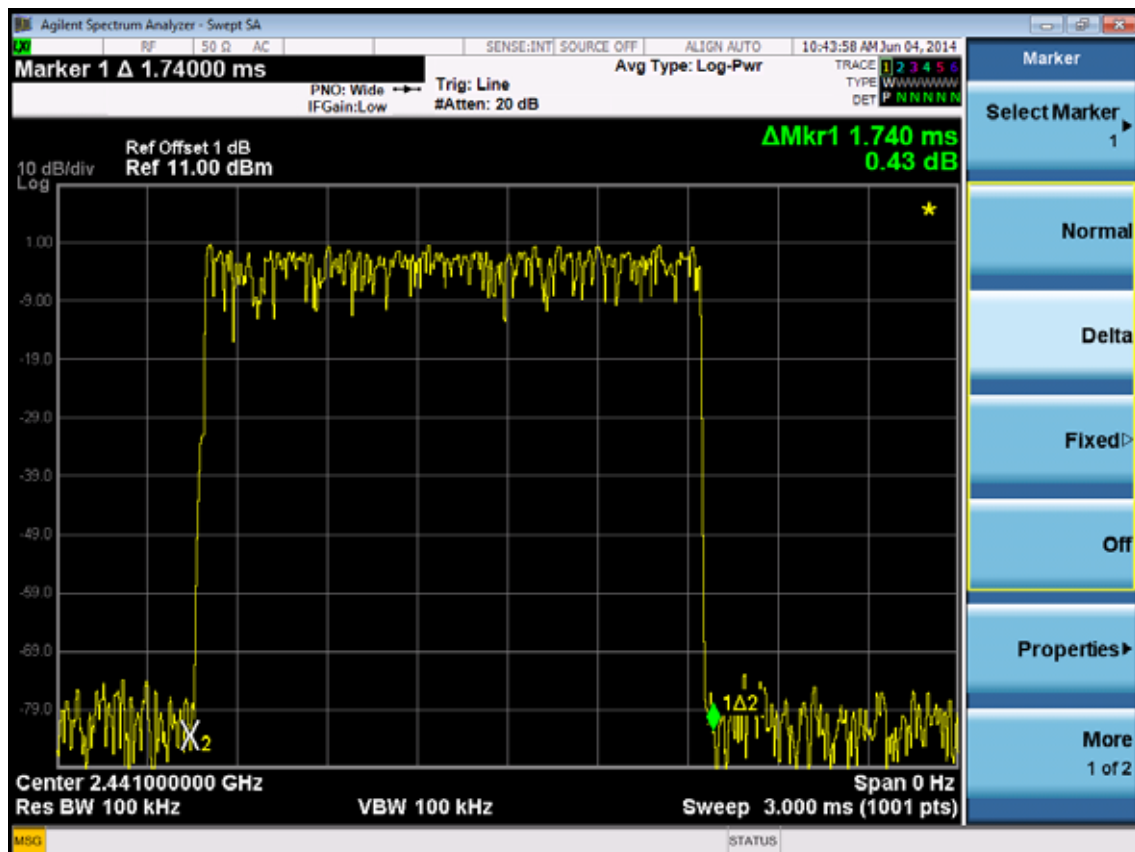
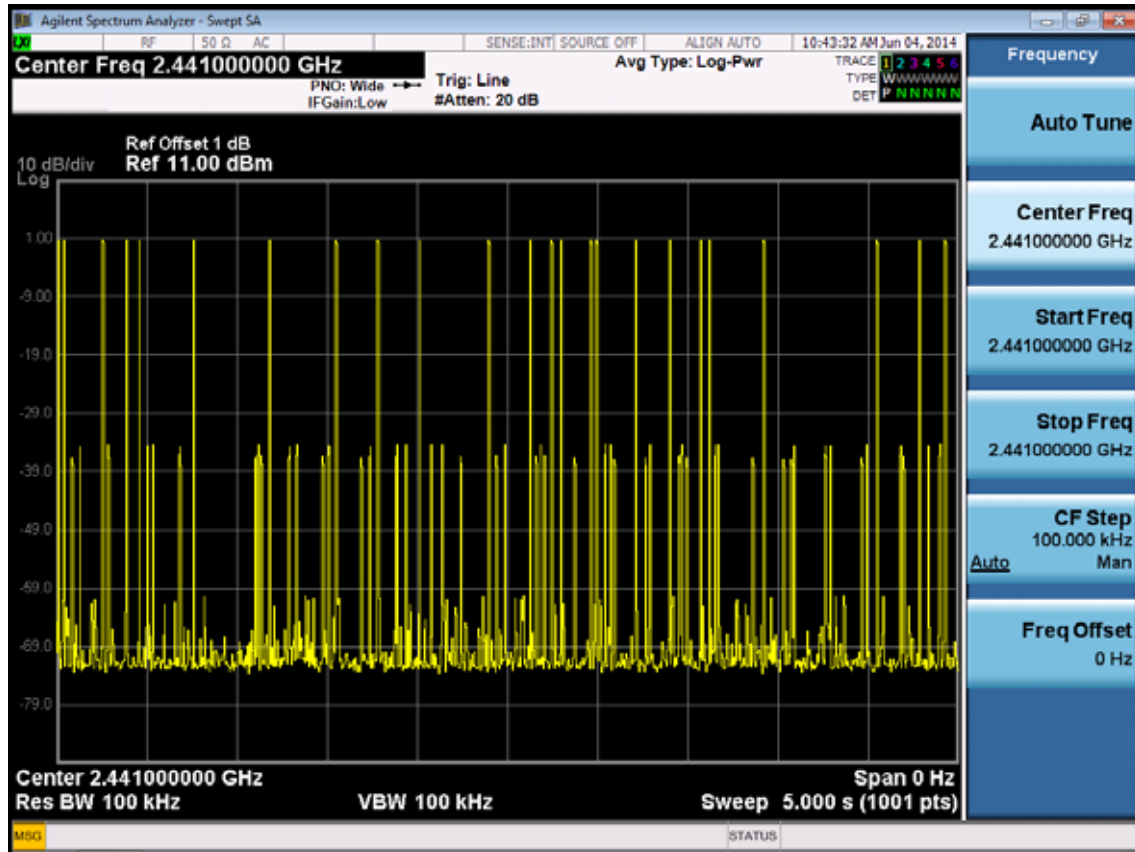
Note: All the lower levels were signal from receiver's, and should not considered in here.

# Test Mode: GFSK

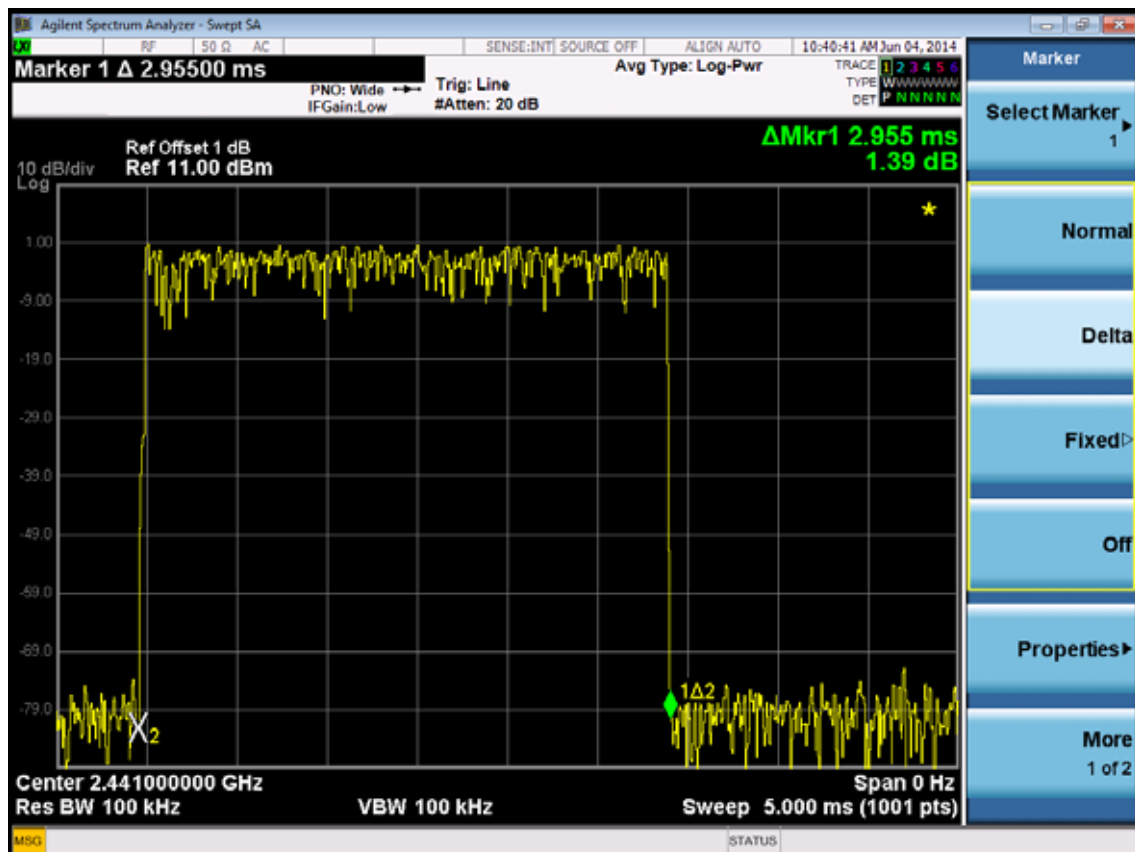
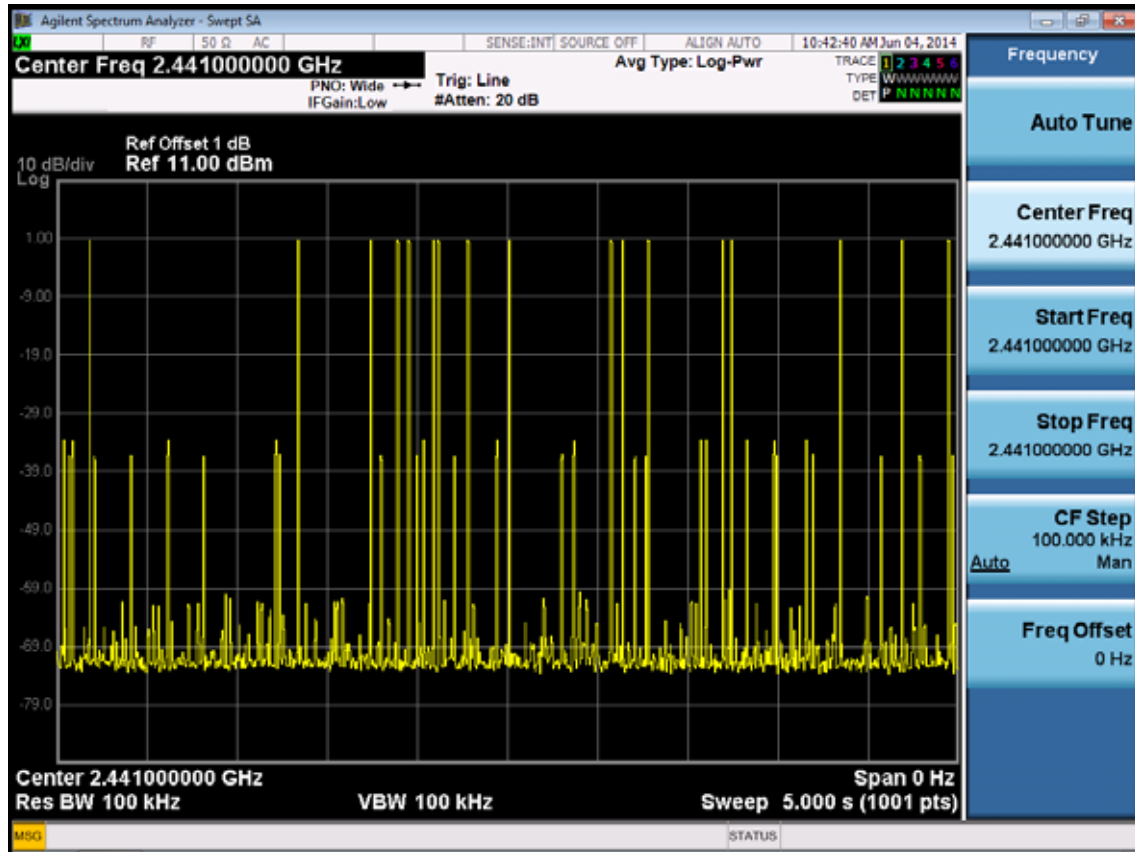
DH 1



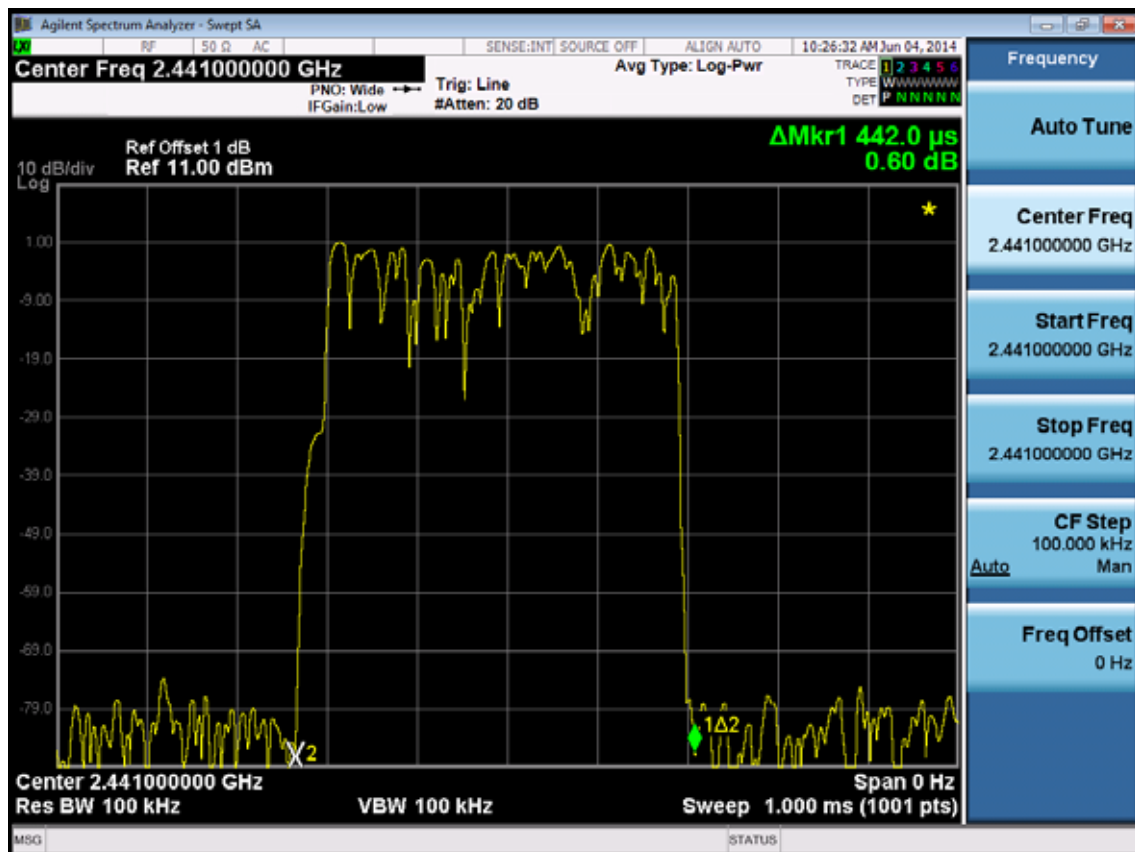
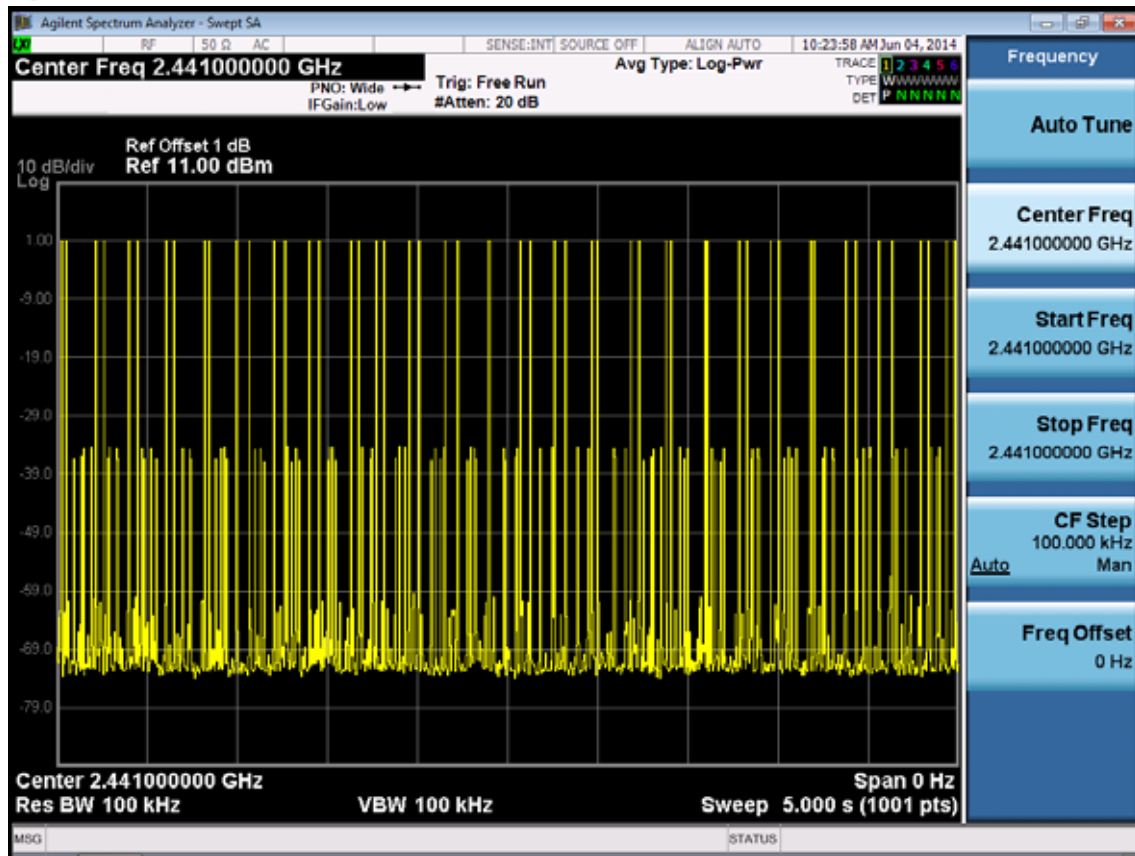
DH 3



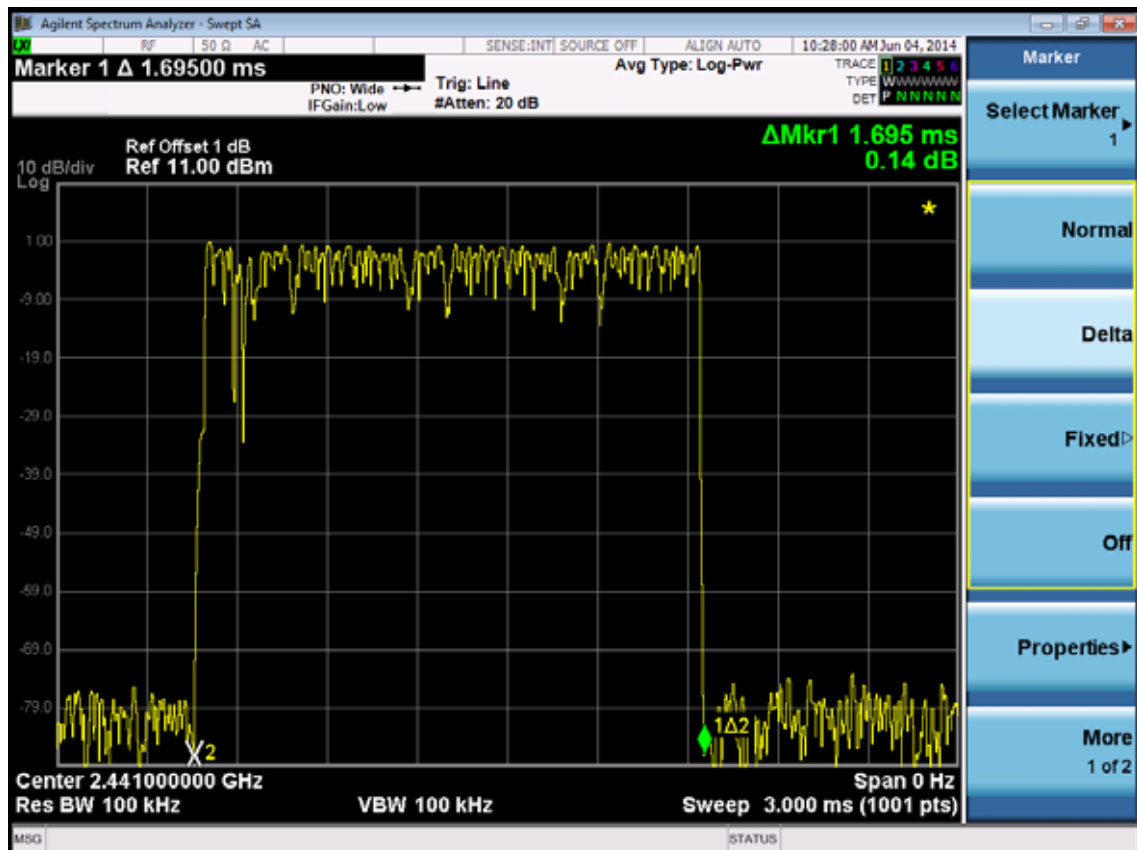
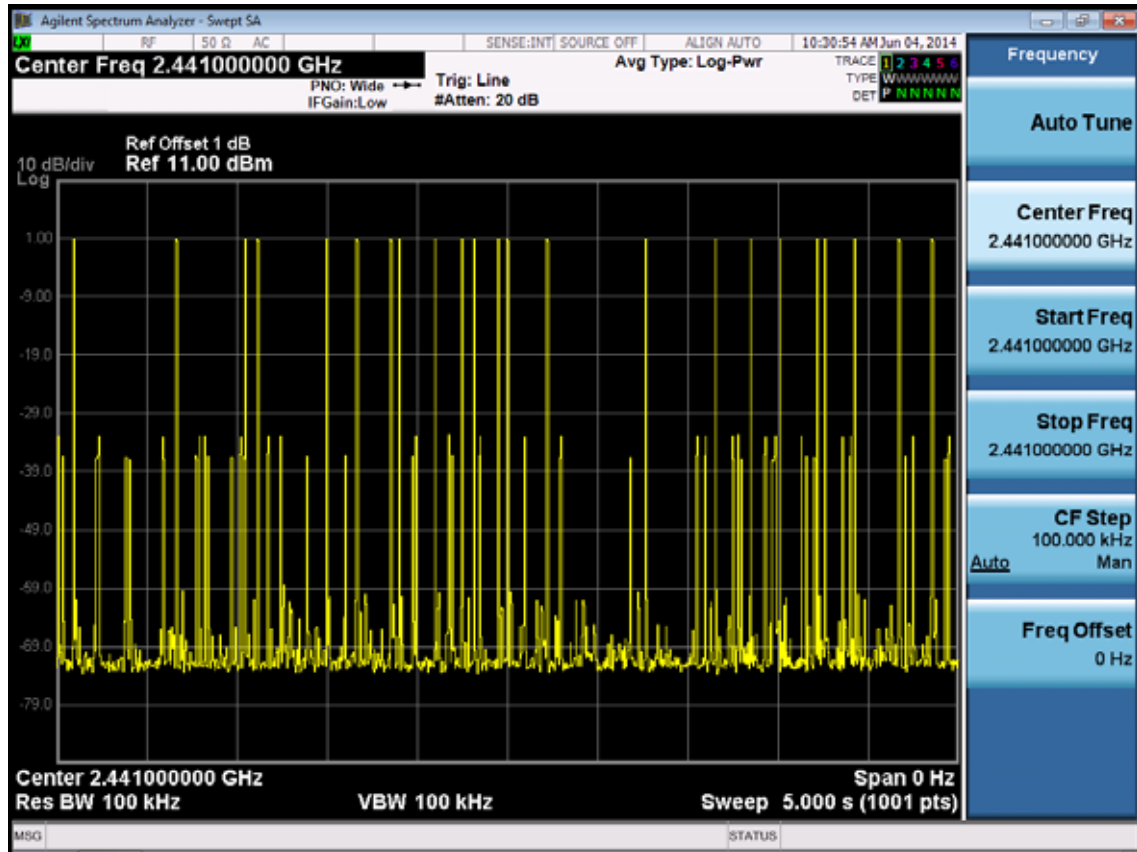
DH 5



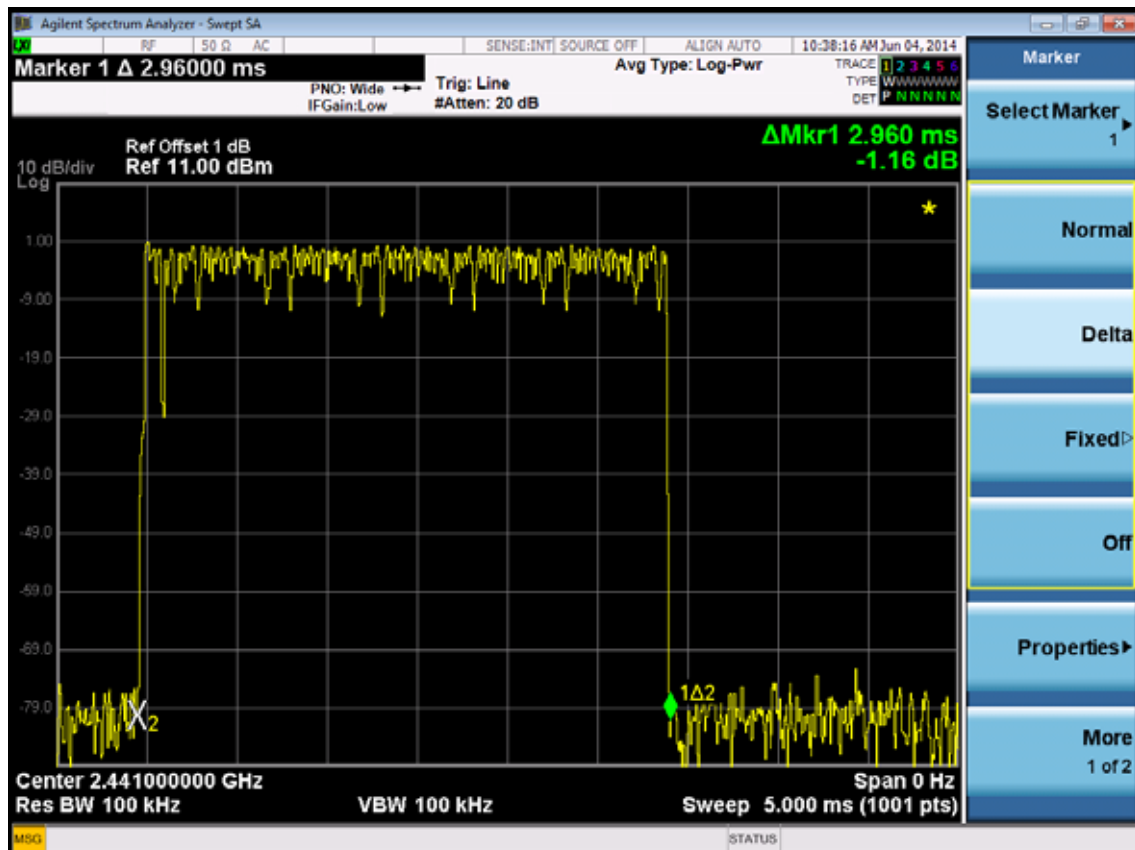
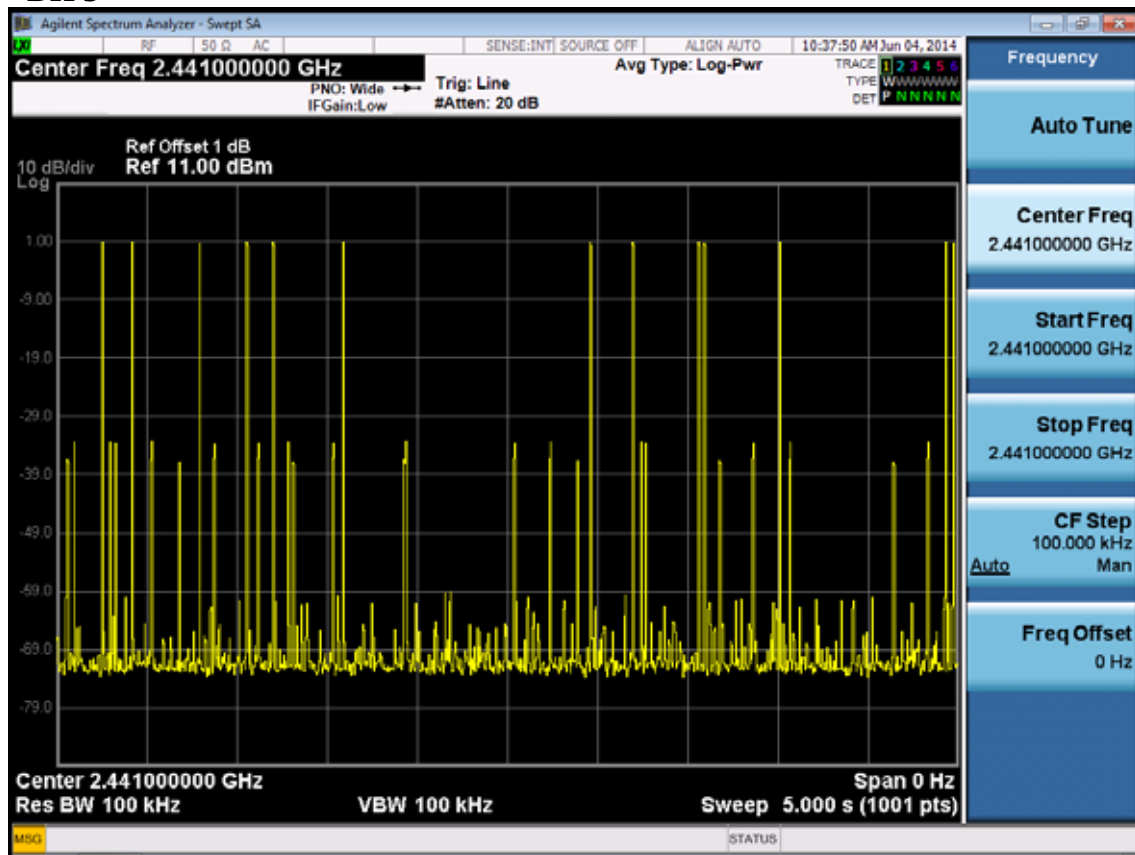
# Test Mode: 8-DPSK DH 1



### DH 3



## DH 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.31, 13 | 1 Year        |
| 2.   | Power meter       | Anritsu      | ML2487A     | 6K00002472 | Apr. 28,14 | 1 Year        |
| 3.   | Power sensor      | Anritsu      | MA2491A     | 0033005    | Apr. 28,14 | 1 Year        |
| 4.   | Attenuator (20dB) | Agilent      | 8491B       | MY39262165 | Apr. 28,14 | 1 Year        |
| 5    | RF Cable          | Hubersuhner  | SUCOFLEX102 | 28610/2    | Apr. 28,14 | 1 Year        |

### 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. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

### 10.3. Test Procedure

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

### 10.4. Test Results

| EUT: Dell Cast Adapter |          |                         |                          |
|------------------------|----------|-------------------------|--------------------------|
| M/N: BEL01             |          |                         |                          |
| Test date: 2014-05-30  |          | Pressure: 101.1±1.0 kpa | Humidity: 51.2±1.0%      |
| Tested by: Leo-Li      |          | Test site: RF site      | Temperature: 22.8±1.0 °C |
| Cable loss: 1 dB       |          |                         |                          |
| Test Mode              | CH (MHz) | Peak output Power (dBm) | Limit (dBm)              |
| GFSK                   | 2402     | -0.728                  | 30                       |
|                        | 2441     | 1.473                   | 30                       |
|                        | 2480     | 1.793                   | 30                       |
| 8-DPSK                 | 2402     | -0.836                  | 30                       |
|                        | 2441     | 1.466                   | 30                       |
|                        | 2480     | 1.769                   | 30                       |
| Conclusion: PASS       |          |                         |                          |

## 11.BAND EDGE COMPLIANCE TEST

### 11.1.Test Equipment

| Item | Equipment    | Manufacturer | Model No.   | Serial No. | Last Cal.  | Cal. Interval |
|------|--------------|--------------|-------------|------------|------------|---------------|
| 1.   | Spectrum     | Agilent      | E4446A      | US44300459 | Apr. 28,14 | 1 Year        |
| 2.   | Amp          | HP           | 8449B       | 3008A02495 | Apr. 28,14 | 1 Year        |
| 3.   | Horn Antenna | EMCO         | 3115        | 9607-4877  | Aug.27, 13 | 1 Year        |
| 4.   | HF Cable     | Hubersuhner  | Sucoflex104 | 274094/4   | Apr. 28,14 | 1 Year        |
| 5    | 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

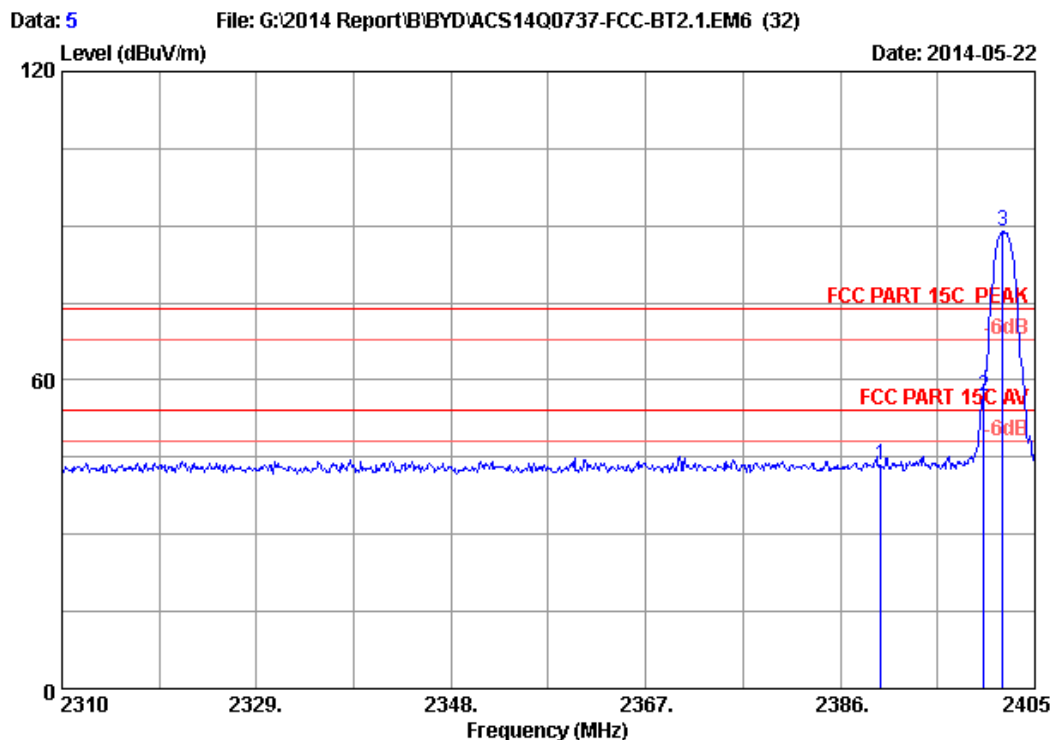
For emissions above two bandwidths away from the band-edge use below produce:

- 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 Time=AUTO
  - (b)This device is pulse modulated, a duty cycle correct factor was used to calculated the average emission level based on the measured peak level.

#### 11.4.Test Results

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

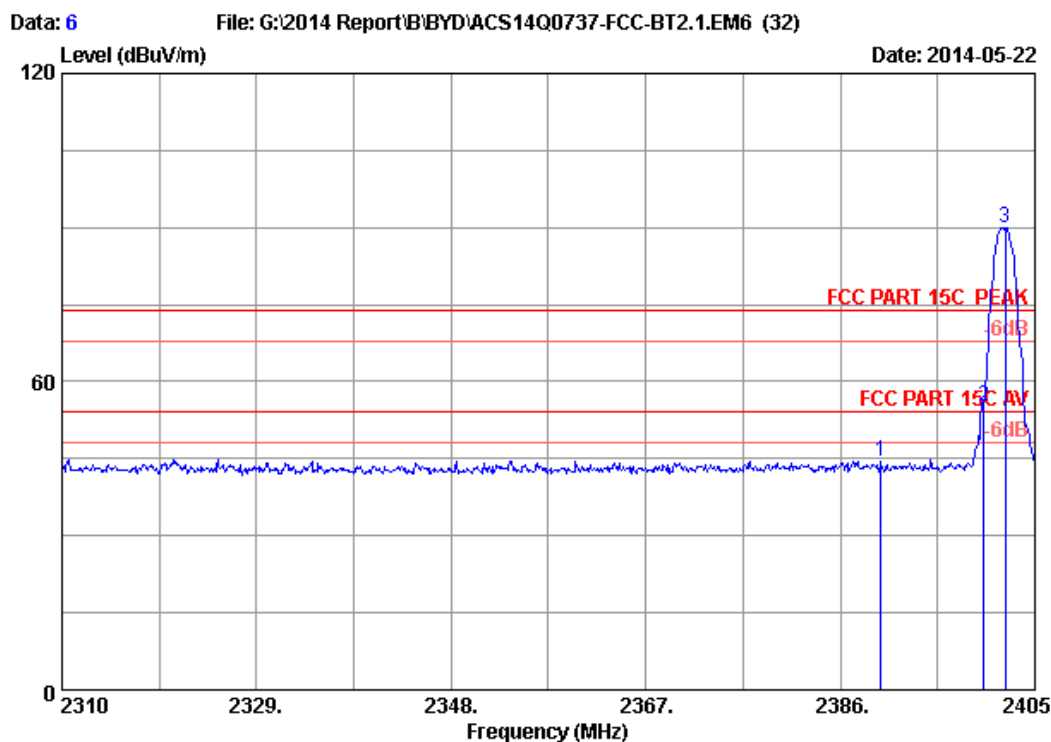
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 5  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : GFSK 2402MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2390.000       | 28.16                    | 5.78                  | 35.70                 | 45.33             | 43.57                         | 74.00              | 30.43          | Peak   |
| 2   | 2400.000       | 28.18                    | 5.80                  | 35.70                 | 58.48             | 56.76                         | 74.00              | 17.24          | Peak   |
| 3   | 2401.865       | 28.18                    | 5.80                  | 35.70                 | 90.57             | 88.85                         | 74.00              | -14.85         | Peak   |

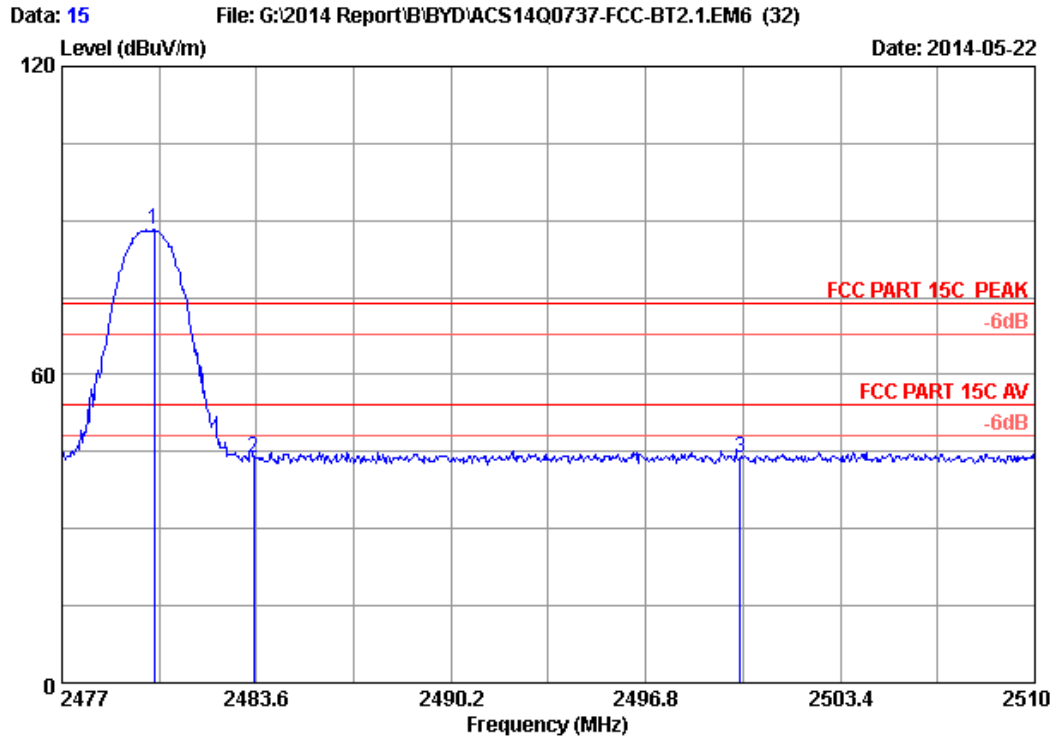
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 3m Chamber Data no. : 6  
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
EUT : Dell Cast Adapter  
Power Rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : GFSK 2402MHz Tx  
M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2390.000       | 28.16                    | 5.78                  | 35.70                 | 46.25             | 44.49                         | 74.00              | 29.51          | Peak   |
| 2   | 2400.000       | 28.18                    | 5.80                  | 35.70                 | 56.91             | 55.19                         | 74.00              | 18.81          | Peak   |
| 3   | 2402.150       | 28.18                    | 5.80                  | 35.70                 | 91.63             | 89.91                         | 74.00              | -15.91         | Peak   |

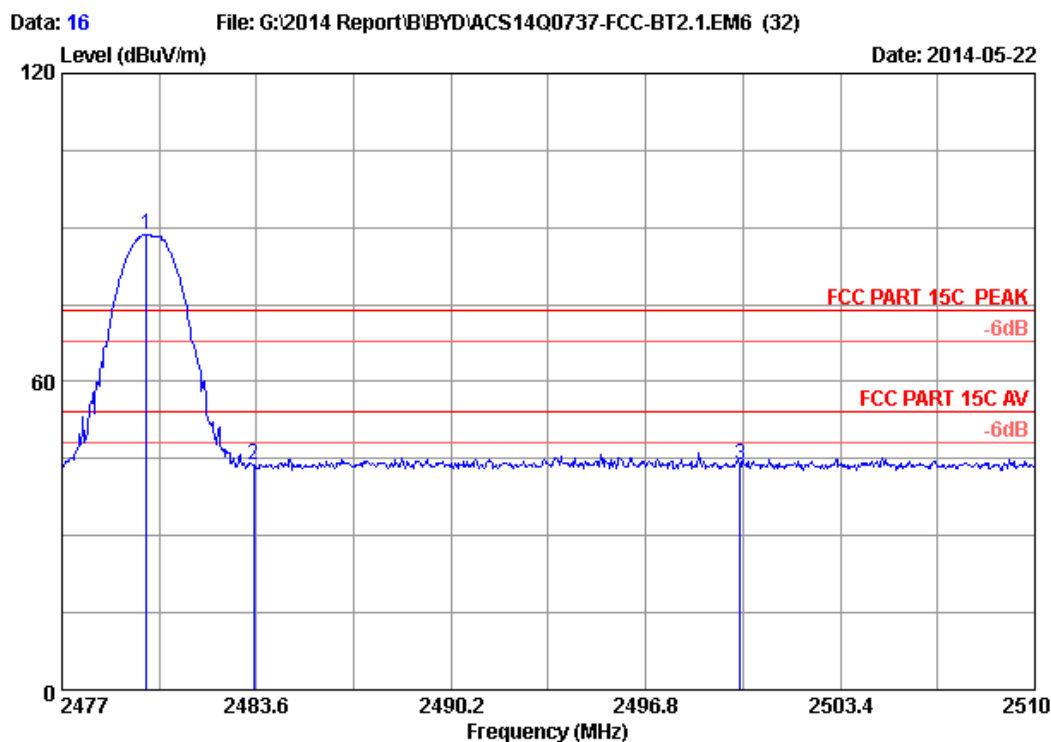
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.



Site no. : 3m Chamber Data no. : 15  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : GFSK 2480MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2480.135       | 28.36                    | 5.91                  | 35.70                 | 89.61             | 88.18                         | 74.00              | -14.18         | Peak   |
| 2   | 2483.500       | 28.36                    | 5.92                  | 35.70                 | 45.32             | 43.90                         | 74.00              | 30.10          | Peak   |
| 3   | 2500.000       | 28.40                    | 5.94                  | 35.70                 | 45.20             | 43.84                         | 74.00              | 30.16          | Peak   |

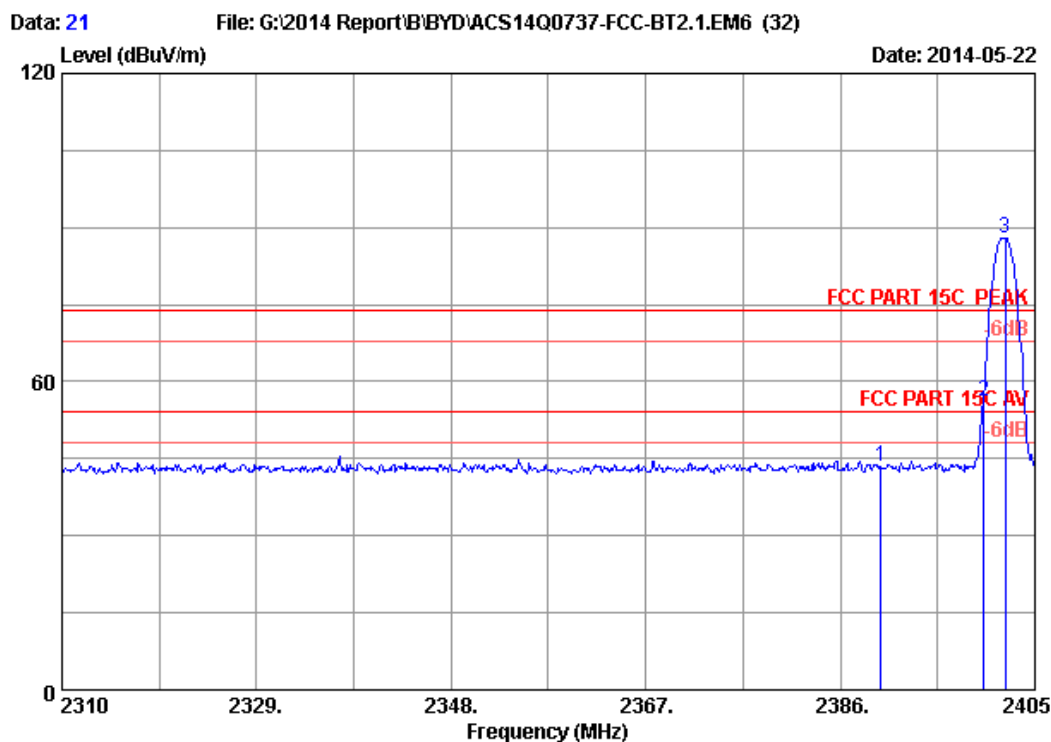
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 3m Chamber Data no. : 16  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : GFSK 2480MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2479.871       | 28.36                    | 5.91                  | 35.70                 | 90.00             | 88.57                         | 74.00              | -14.57         | Peak   |
| 2   | 2483.500       | 28.36                    | 5.92                  | 35.70                 | 45.36             | 43.94                         | 74.00              | 30.06          | Peak   |
| 3   | 2500.000       | 28.40                    | 5.94                  | 35.70                 | 45.03             | 43.67                         | 74.00              | 30.33          | Peak   |

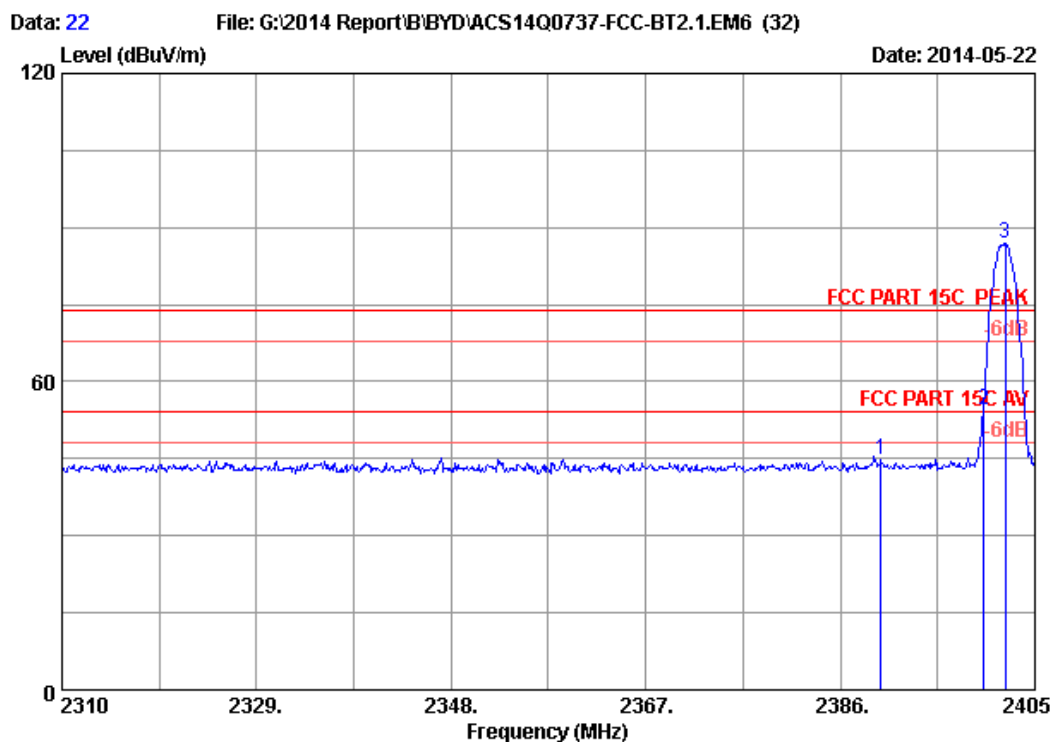
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 3m Chamber Data no. : 21  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : 8-DPSK 2402MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2390.000       | 28.16                    | 5.78                  | 35.70                 | 45.11             | 43.35                         | 74.00              | 30.65          | Peak   |
| 2   | 2400.000       | 28.18                    | 5.80                  | 35.70                 | 57.82             | 56.10                         | 74.00              | 17.90          | Peak   |
| 3   | 2402.150       | 28.18                    | 5.80                  | 35.70                 | 89.69             | 87.97                         | 74.00              | -13.97         | Peak   |

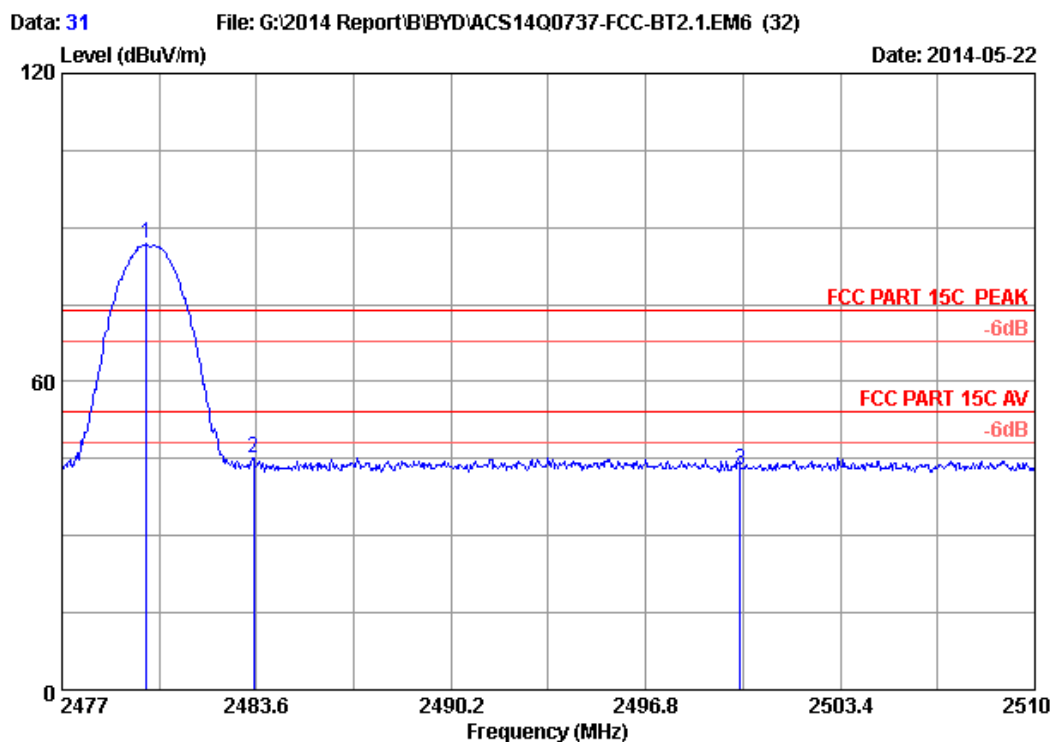
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 3m Chamber Data no. : 22  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : 8-DPSK 2402MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2390.000       | 28.16                    | 5.78                  | 35.70                 | 46.40             | 44.64                         | 74.00              | 29.36          | Peak   |
| 2   | 2400.000       | 28.18                    | 5.80                  | 35.70                 | 56.30             | 54.58                         | 74.00              | 19.42          | Peak   |
| 3   | 2402.150       | 28.18                    | 5.80                  | 35.70                 | 88.60             | 86.88                         | 74.00              | -12.88         | Peak   |

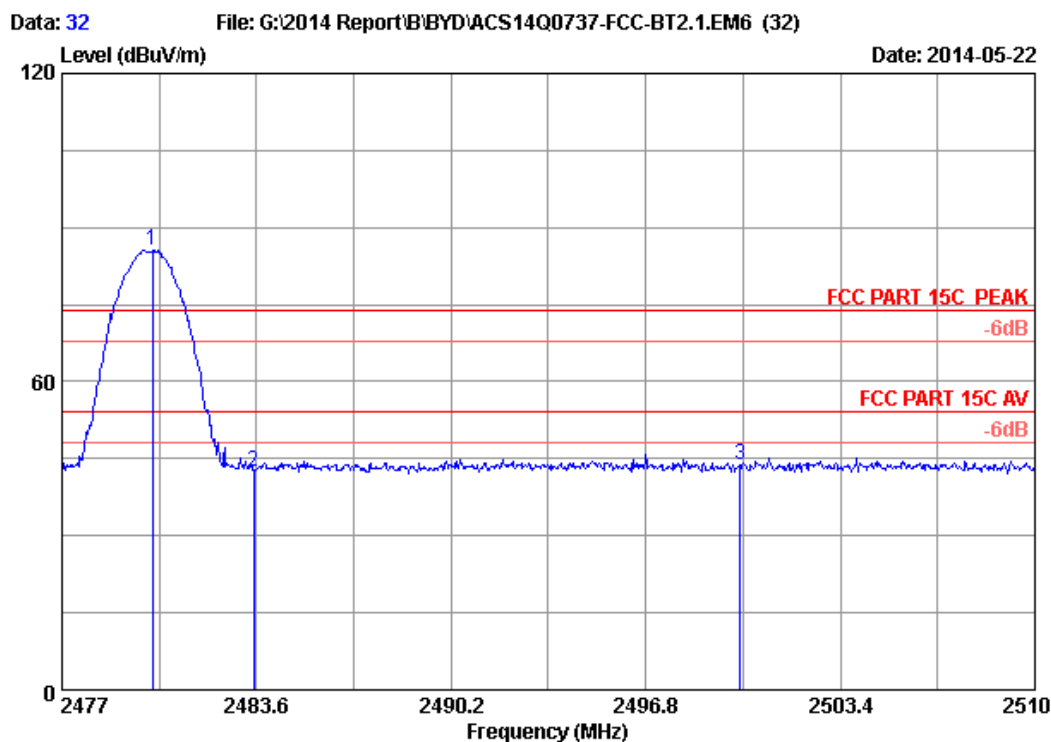
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 3m Chamber Data no. : 31  
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : 8-DPSK 2480MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2479.871       | 28.36                    | 5.91                  | 35.70                 | 88.20             | 86.77                         | 74.00              | -12.77         | Peak   |
| 2   | 2483.500       | 28.36                    | 5.92                  | 35.70                 | 46.43             | 45.01                         | 74.00              | 28.99          | Peak   |
| 3   | 2500.000       | 28.40                    | 5.94                  | 35.70                 | 44.24             | 42.88                         | 74.00              | 31.12          | 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 2013 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 24°C/56% Engineer : Kevin\_HMJ  
 EUT : Dell Cast Adapter  
 Power Rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : 8-DPSK 2480MHz Tx  
 M/N : BEL01

| No. | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | AMP<br>factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1   | 2480.069       | 28.36                    | 5.91                  | 35.70                 | 86.94             | 85.51                         | 74.00              | -11.51         | Peak   |
| 2   | 2483.500       | 28.36                    | 5.92                  | 35.70                 | 43.95             | 42.53                         | 74.00              | 31.47          | Peak   |
| 3   | 2500.000       | 28.40                    | 5.94                  | 35.70                 | 45.24             | 43.88                         | 74.00              | 30.12          | 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.DEVIATION TO TEST SPECIFICATIONS

[NONE]