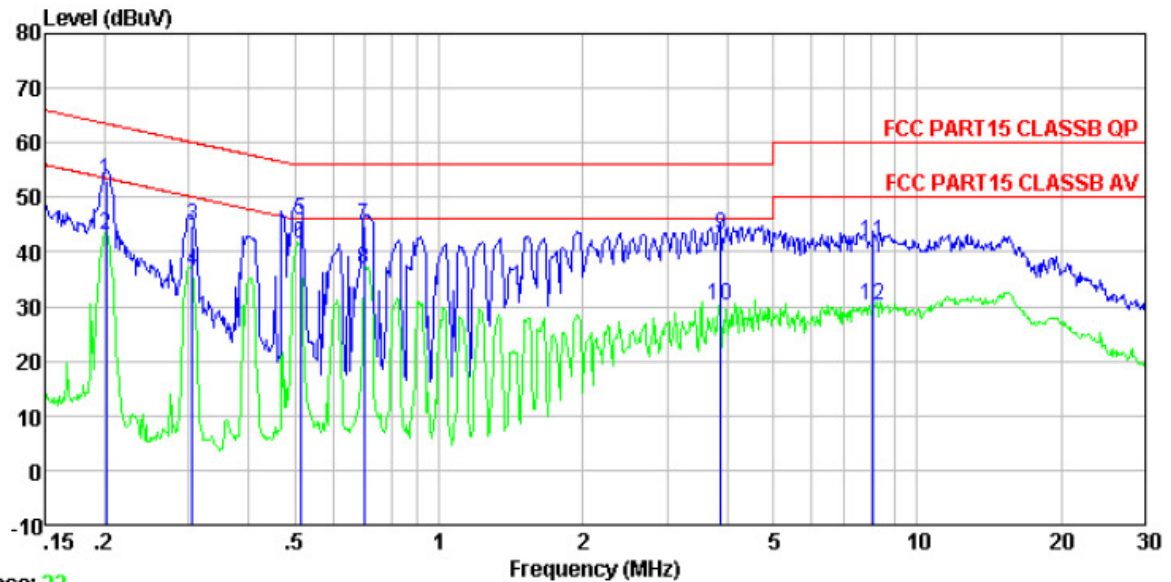


# **Appendix 1**

## **Test Results**

## Disturbance Voltage on AC Mains



Trace: 22

Condition : FCC PART15 CLASSB QP LISN-2012 LINE

EUT : BT HS

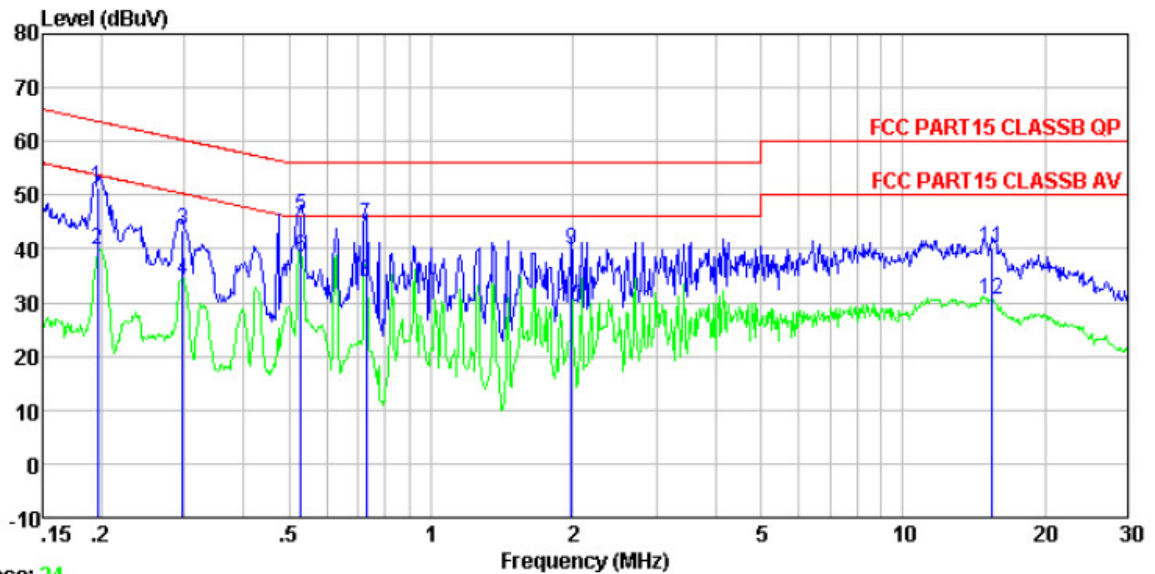
Model No. : MINI

Sample No. : 00130408003-001

Order No. : 144003834

Test Mode : charge +BT link

|    | Freq  | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.202 | 53.22      | -0.23       | 0.10       | 53.09 | 63.54      | -10.45     | QP      |
| 2  | 0.202 | 43.22      | -0.23       | 0.10       | 43.09 | 53.54      | -10.45     | Average |
| 3  | 0.305 | 44.97      | -0.22       | 0.10       | 44.85 | 60.10      | -15.25     | QP      |
| 4  | 0.305 | 36.57      | -0.22       | 0.10       | 36.45 | 50.10      | -13.65     | Average |
| 5  | 0.513 | 46.02      | -0.21       | 0.10       | 45.91 | 56.00      | -10.09     | QP      |
| 6  | 0.513 | 41.44      | -0.21       | 0.10       | 41.33 | 46.00      | -4.67      | Average |
| 7  | 0.697 | 45.02      | -0.20       | 0.10       | 44.92 | 56.00      | -11.08     | QP      |
| 8  | 0.697 | 36.80      | -0.20       | 0.10       | 36.70 | 46.00      | -9.30      | Average |
| 9  | 3.881 | 43.27      | -0.28       | 0.10       | 43.09 | 56.00      | -12.91     | QP      |
| 10 | 3.881 | 30.46      | -0.28       | 0.10       | 30.28 | 46.00      | -15.72     | Average |
| 11 | 8.105 | 41.85      | -0.36       | 0.18       | 41.67 | 60.00      | -18.33     | QP      |
| 12 | 8.105 | 30.36      | -0.36       | 0.18       | 30.18 | 50.00      | -19.82     | Average |



Trace: 24

Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL

EUT : BT HS

Model No. : MINI

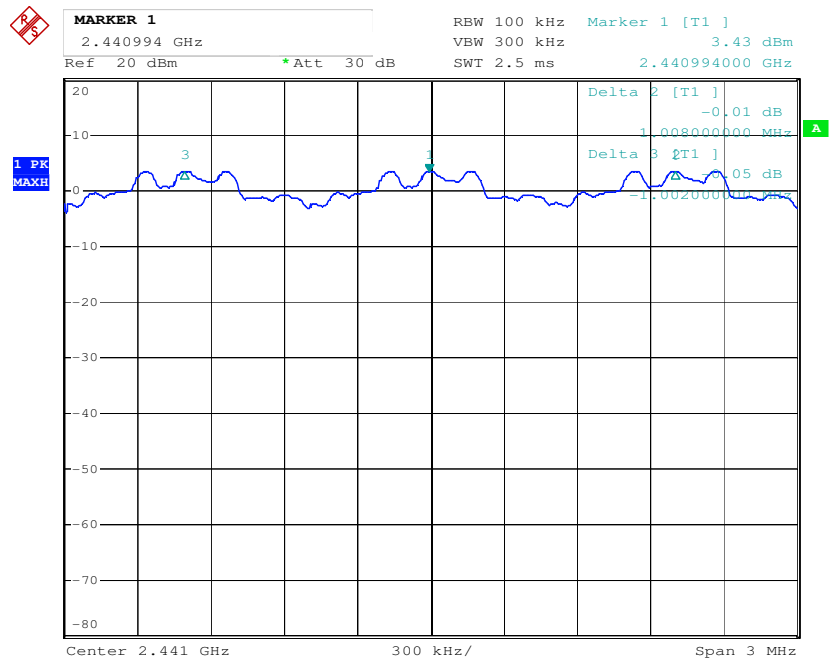
Sample No. : 00130408003-001

Order No. : 144003834

Test Mode : charge +BT link

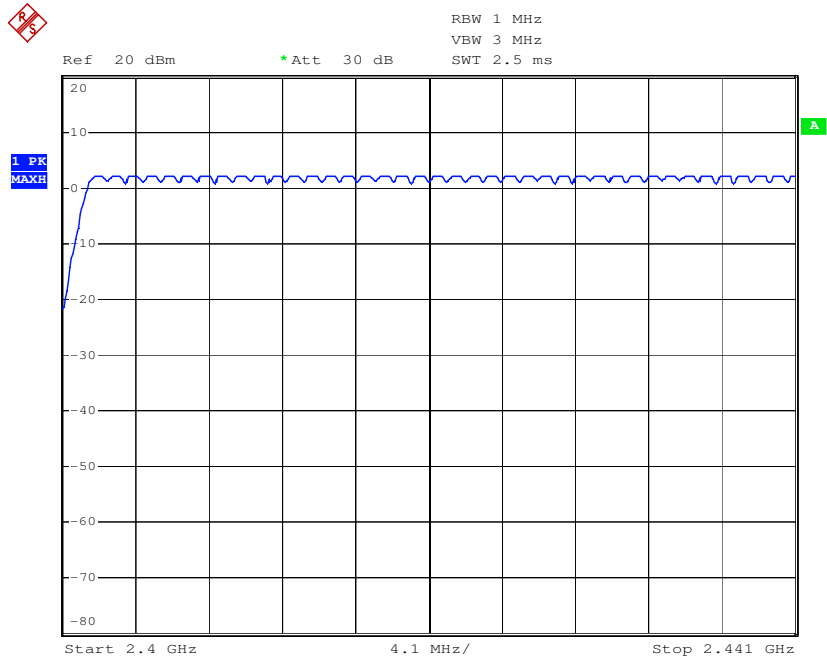
|    | Freq   | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|--------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz    | dBuV       | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.197  | 51.31      | -0.09       | 0.10       | 51.32 | 63.76      | -12.44     | QP      |
| 2  | 0.197  | 39.65      | -0.09       | 0.10       | 39.66 | 53.76      | -14.10     | Average |
| 3  | 0.297  | 43.58      | -0.09       | 0.10       | 43.59 | 60.32      | -16.73     | QP      |
| 4  | 0.297  | 34.12      | -0.09       | 0.10       | 34.13 | 50.32      | -16.19     | Average |
| 5  | 0.529  | 46.10      | -0.08       | 0.10       | 46.12 | 56.00      | -9.88      | QP      |
| 6  | 0.529  | 38.33      | -0.08       | 0.10       | 38.35 | 46.00      | -7.65      | Average |
| 7  | 0.727  | 44.41      | -0.08       | 0.10       | 44.43 | 56.00      | -11.57     | QP      |
| 8  | 0.727  | 33.66      | -0.08       | 0.10       | 33.68 | 46.00      | -12.32     | Average |
| 9  | 1.980  | 39.90      | -0.11       | 0.10       | 39.89 | 56.00      | -16.11     | QP      |
| 10 | 1.980  | 29.22      | -0.11       | 0.10       | 29.21 | 46.00      | -16.79     | Average |
| 11 | 15.470 | 40.46      | -0.41       | 0.20       | 40.25 | 60.00      | -19.75     | QP      |
| 12 | 15.470 | 30.78      | -0.41       | 0.20       | 30.57 | 50.00      | -19.43     | Average |

## Carrier Frequency Separation

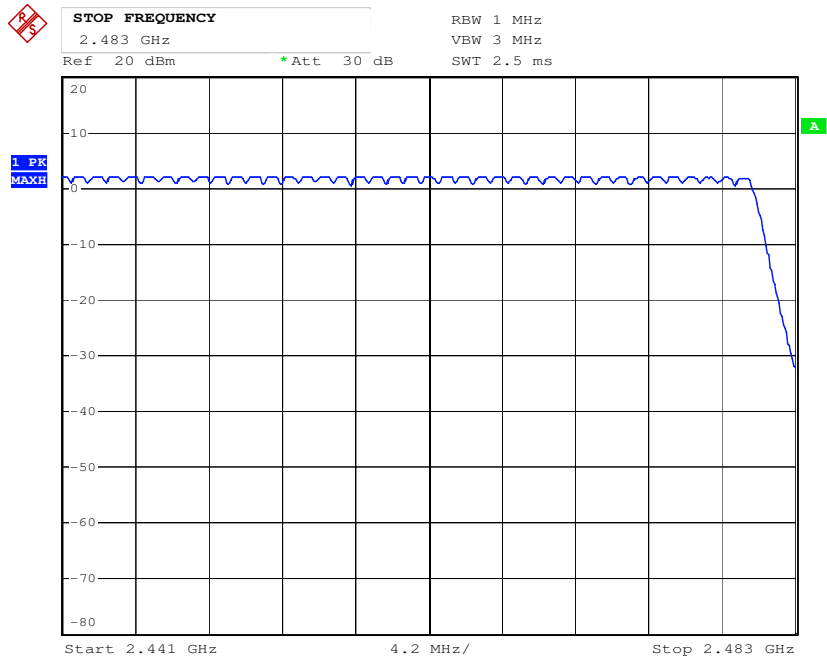


Date: 6.MAY.2013 14:21:42

## Number of hopping channels

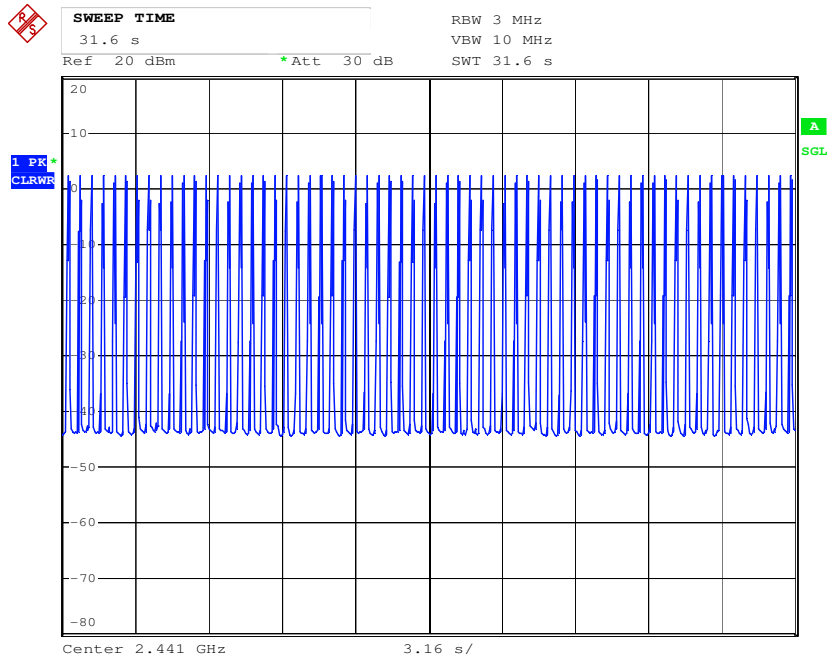


Date: 6.MAY.2013 14:23:56

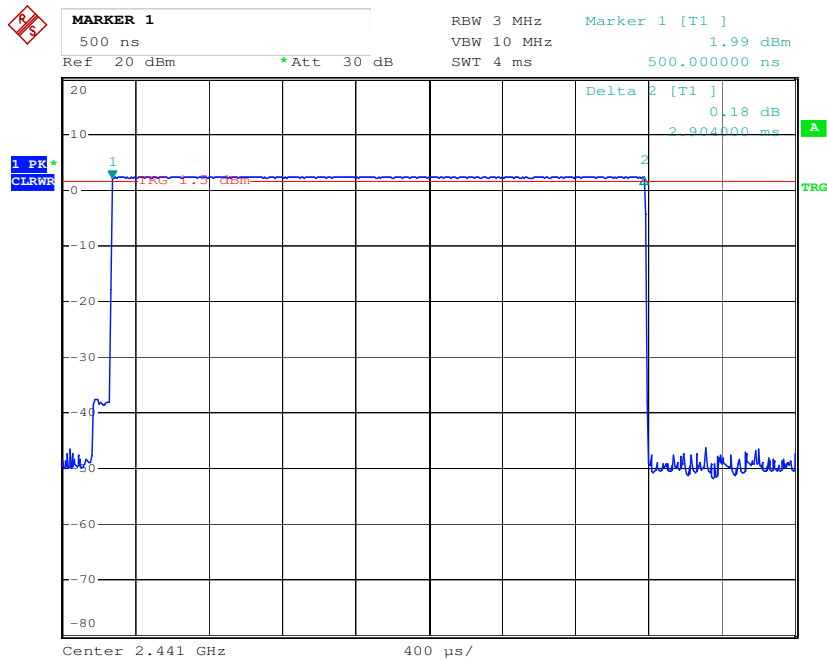


Date: 6.MAY.2013 14:24:56

## Dwell Time



Date: 6.MAY.2013 14:27:44

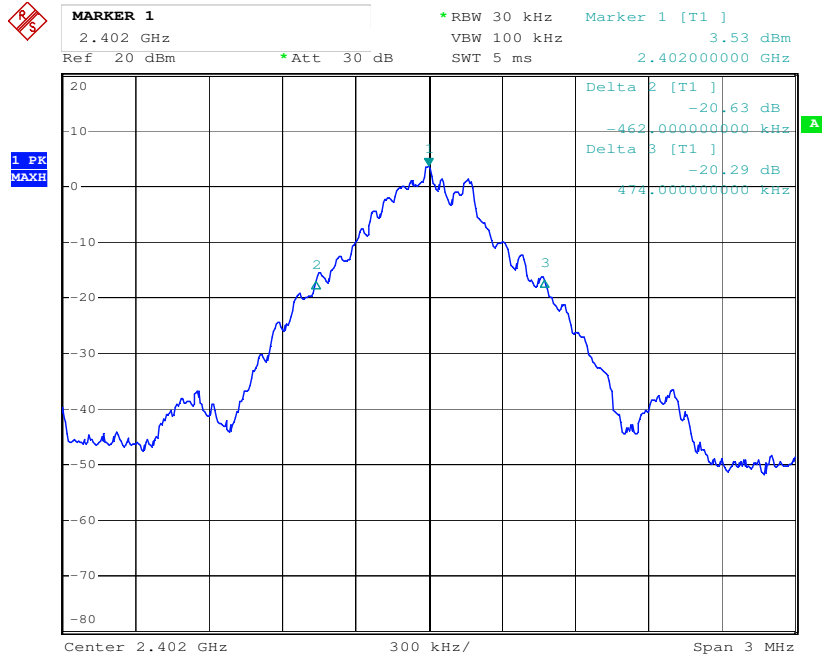


Date: 6.MAY.2013 14:29:02

## 20dB Bandwidth

Modulation: GFSK

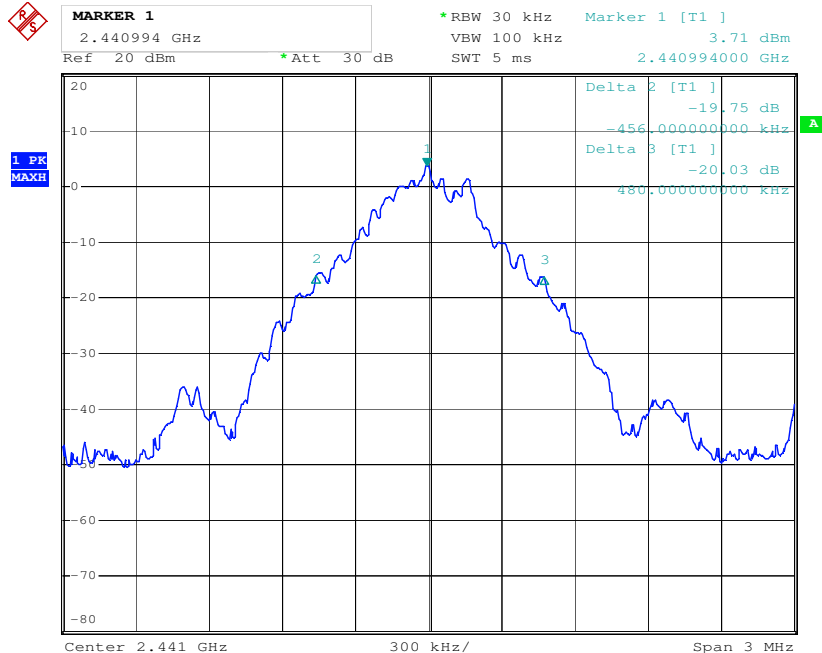
Tx frequency: 2402MHz



Date: 6.MAY.2013 14:34:26

Modulation: GFSK

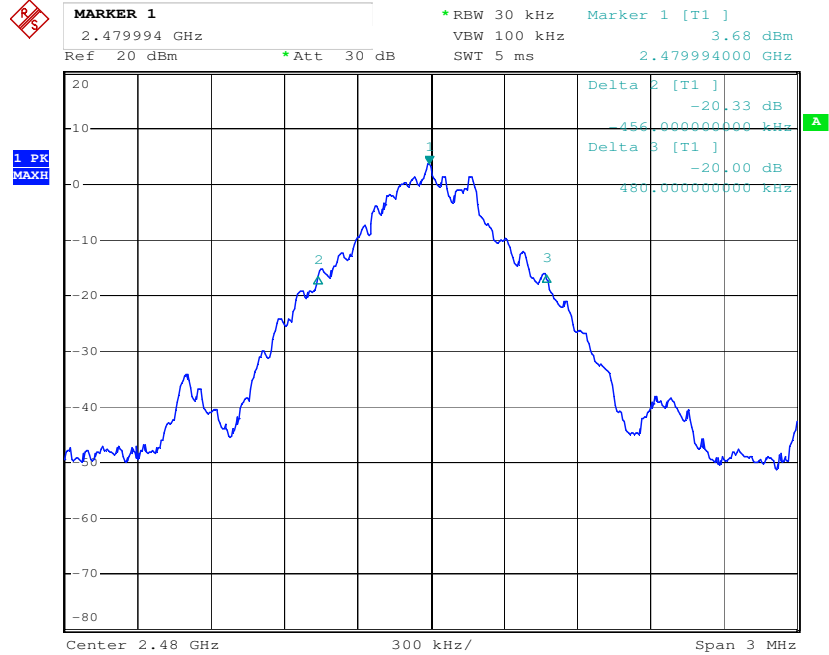
Tx frequency: 2441MHz



Date: 6.MAY.2013 14:35:44

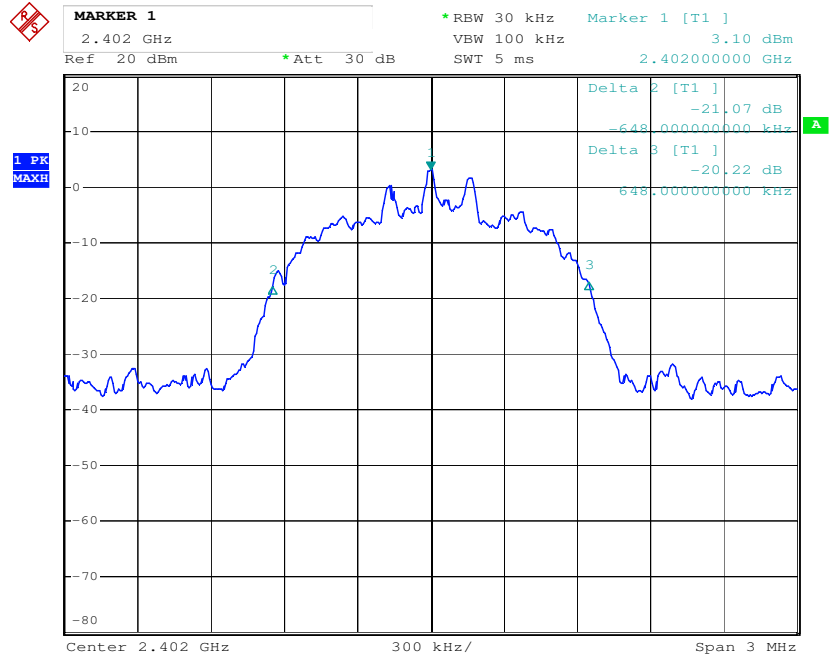
www.tuv.com

Modulation: GFSK  
Tx frequency: 2480MHz



Date: 6.MAY.2013 14:36:54

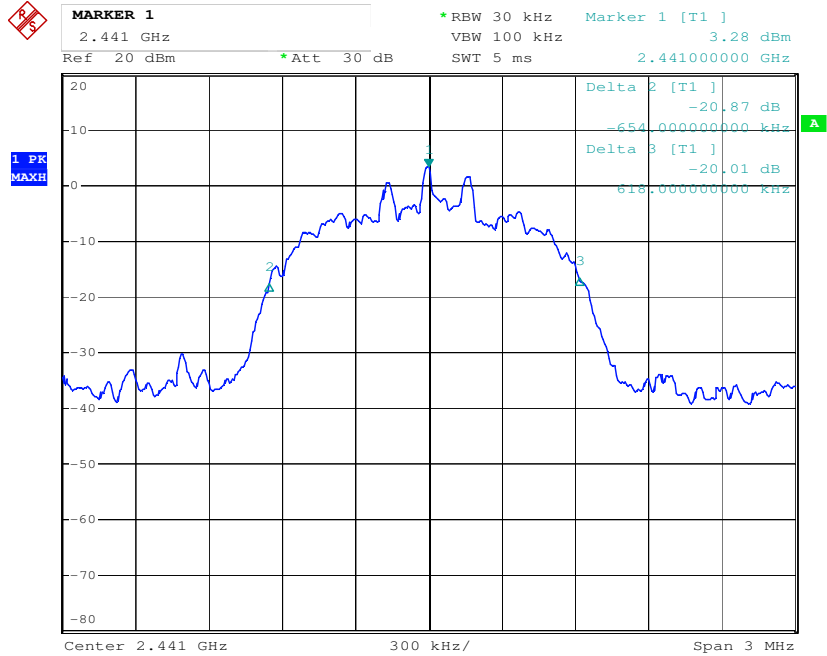
Modulation: 8DPSK  
Tx frequency: 2402MHz



Date: 6.MAY.2013 14:41:11

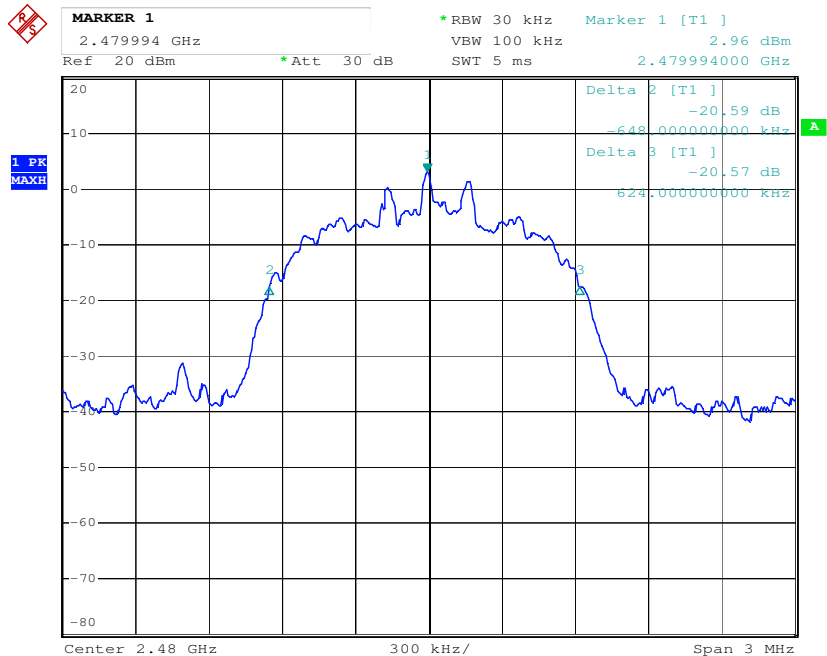


Modulation: 8DPSK  
Tx frequency: 2441MHz



Date: 6.MAY.2013 14:39:56

Modulation: 8DPSK  
Tx frequency: 2480MHz

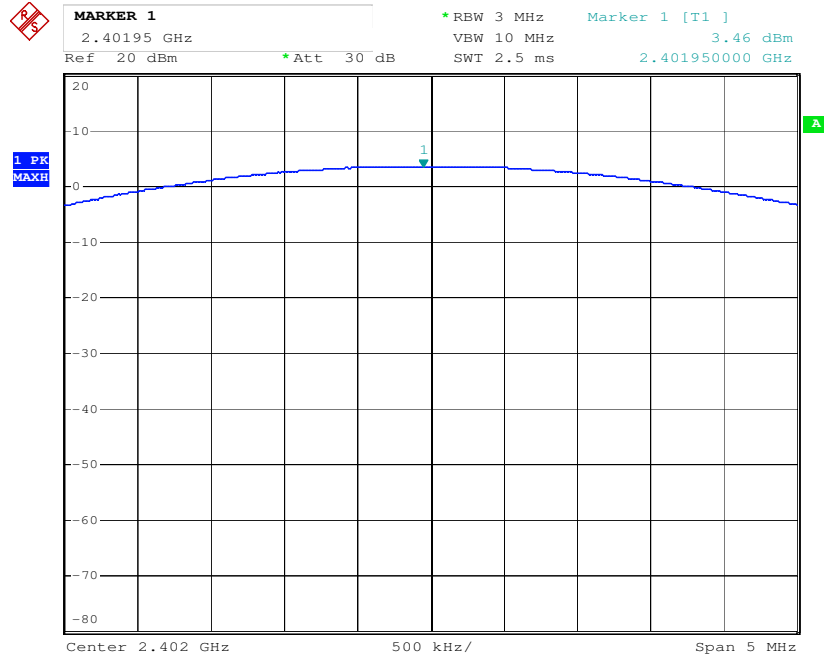


Date: 6.MAY.2013 14:38:38

## Peak Output Power

Modulation: GFSK

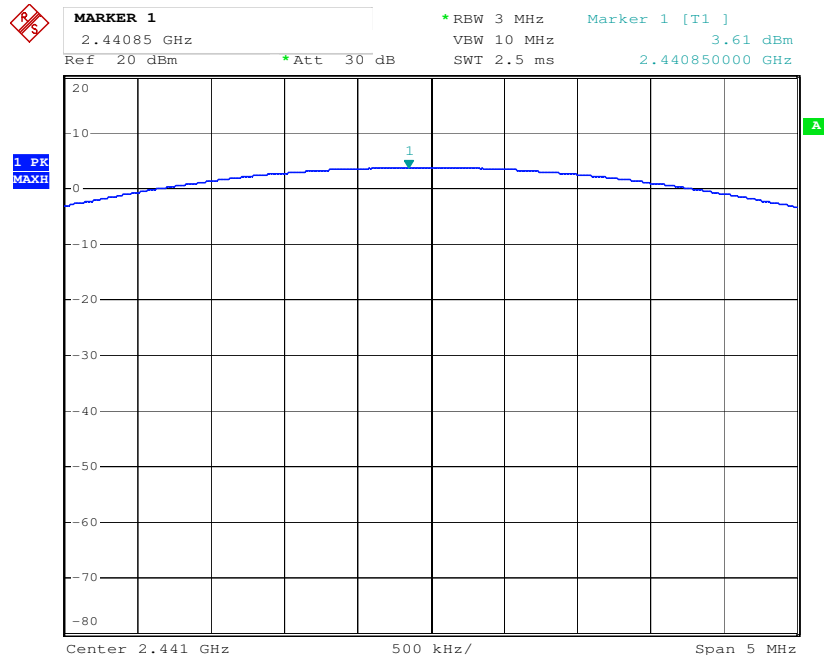
Tx frequency: 2402MHz



Date: 6.MAY.2013 14:46:39

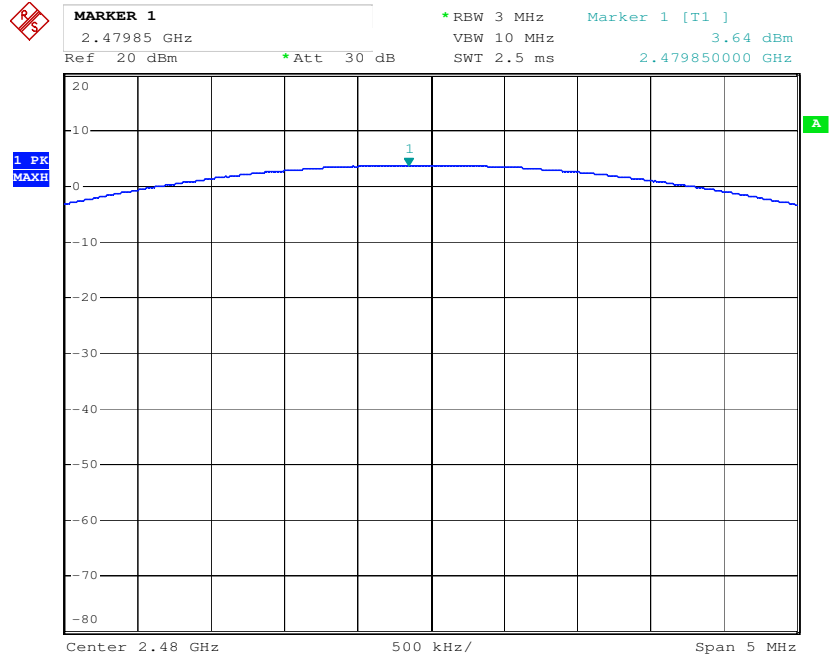
Modulation: GFSK

Tx frequency: 2441MHz



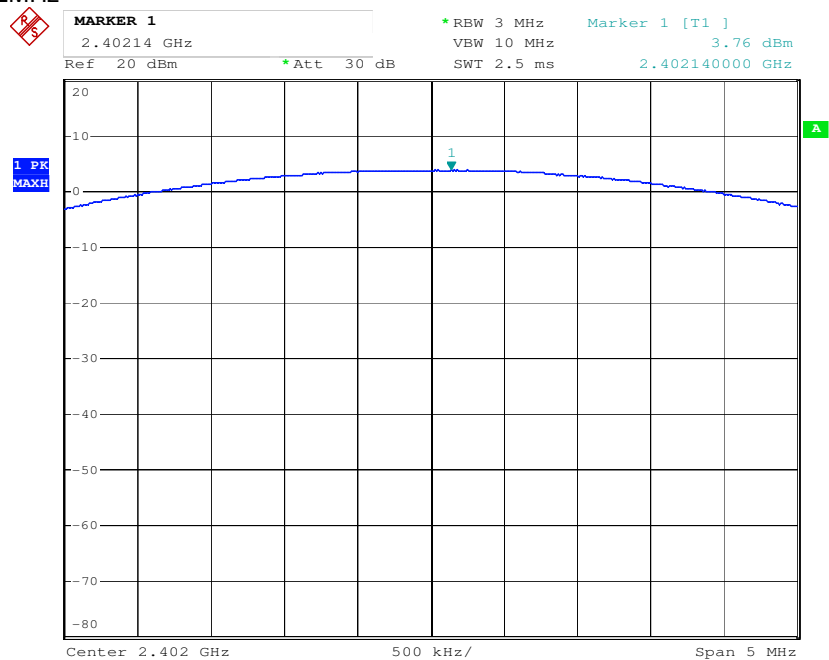
Date: 6.MAY.2013 14:47:27

Modulation: GFSK  
Tx frequency: 2480MHz



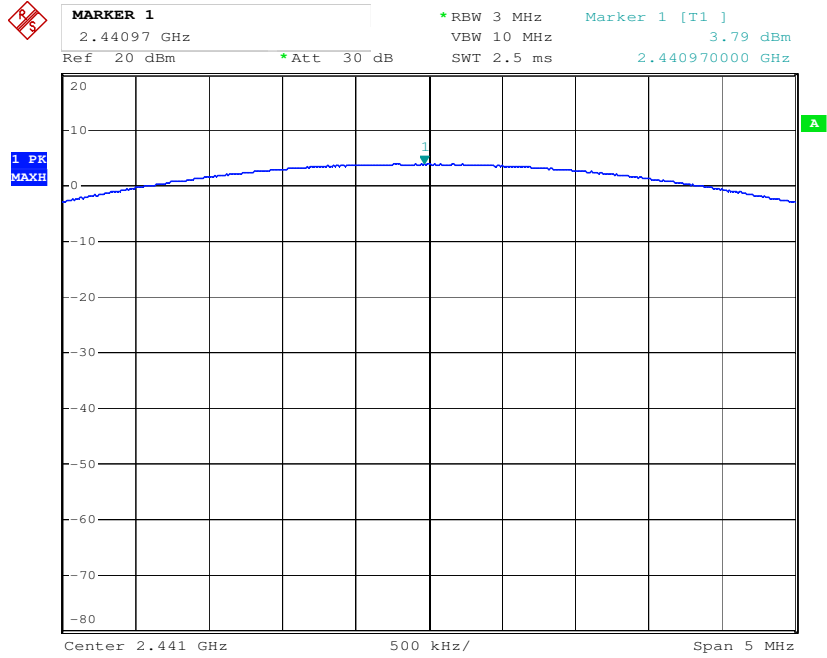
Date: 6.MAY.2013 14:48:01

Modulation: DQPSK  
Tx frequency: 2402MHz



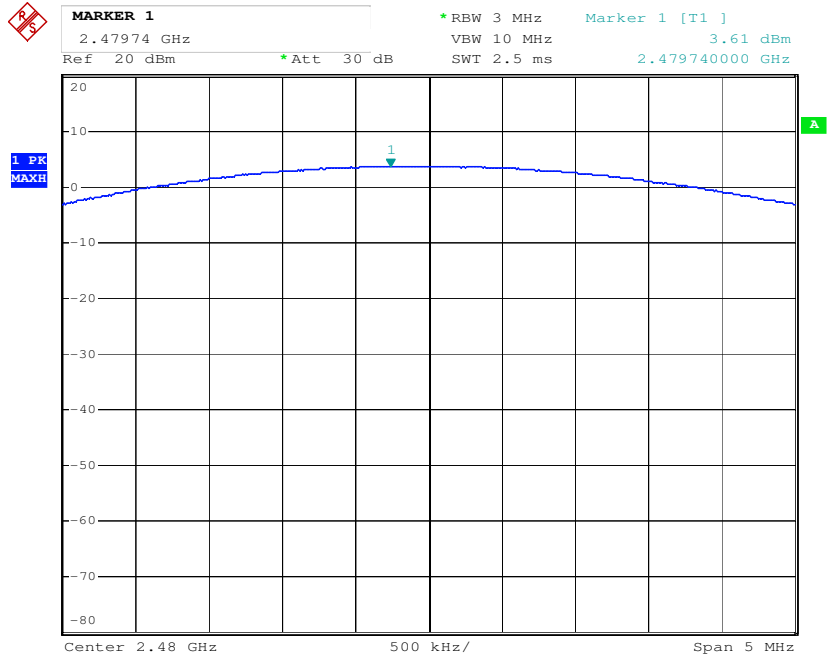
Date: 6.MAY.2013 14:45:50

Modulation: DQPSK  
Tx frequency: 2441MHz



Date: 6.MAY.2013 14:44:58

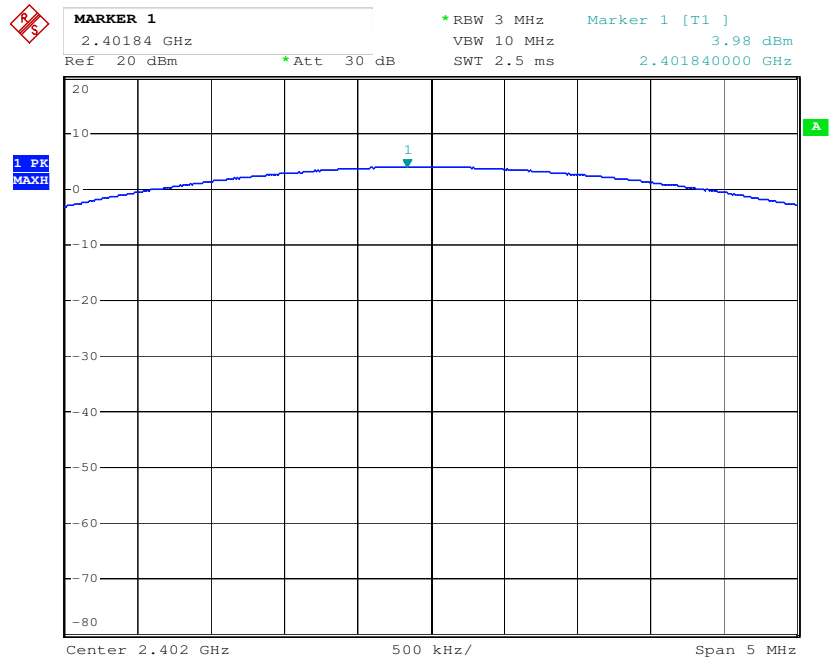
Modulation: DQPSK  
Tx frequency: 2480MHz



Date: 6.MAY.2013 14:44:29

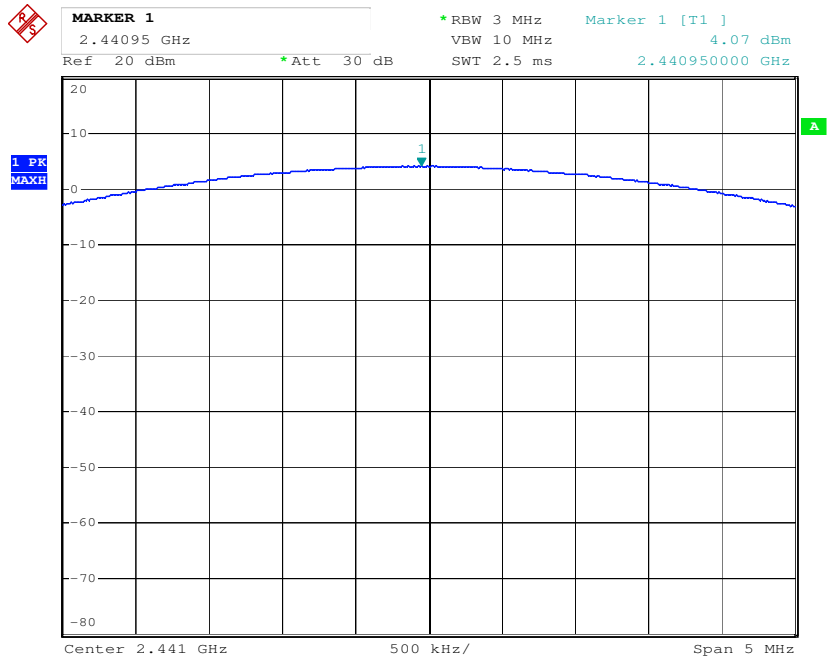
www.tuv.com

Modulation: 8DPSK  
Tx frequency: 2402MHz



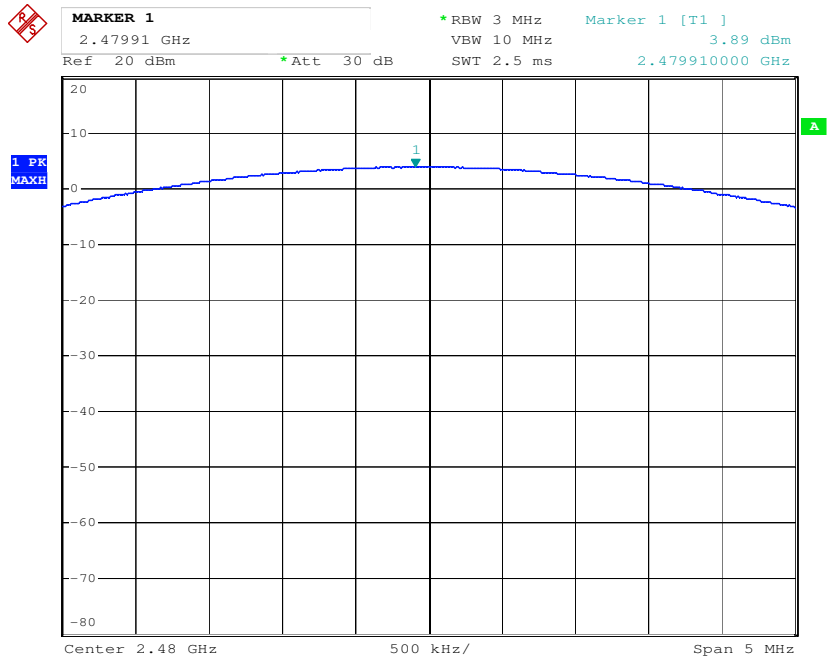
Date: 6.MAY.2013 14:42:06

Modulation: 8DP SK  
Tx frequency: 2441MHz



Date: 6.MAY.2013 14:43:08

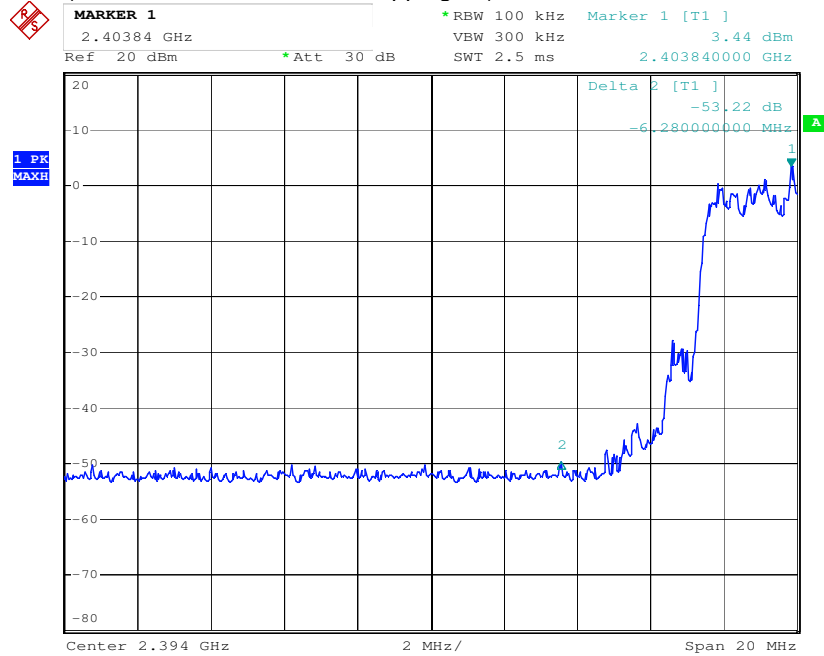
Modulation: 8DP SK  
 Tx frequency: 2480MHz



Date: 6.MAY.2013 14:43:45

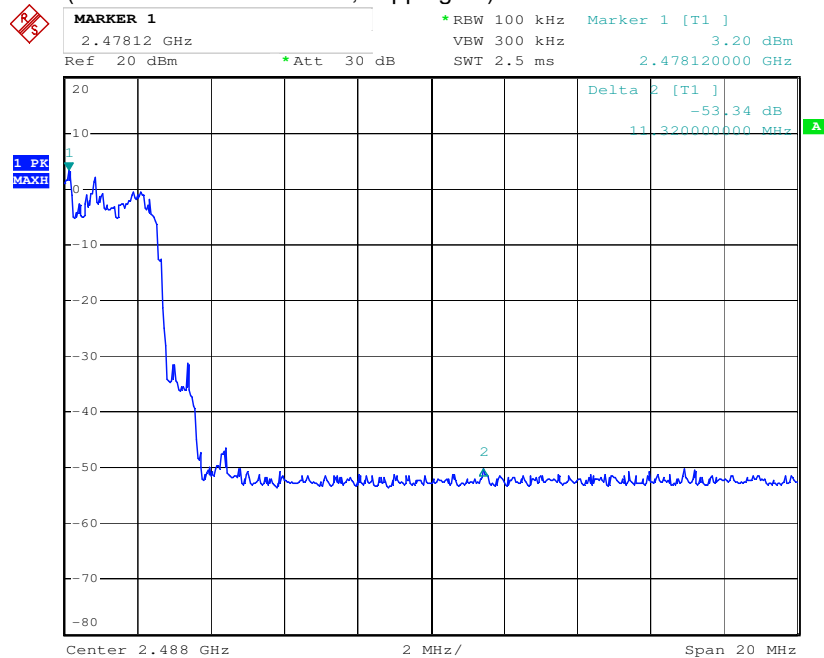
## Band Edge Compliance

Tx frequency: 2402MHz (conducted measurement; hopping on)



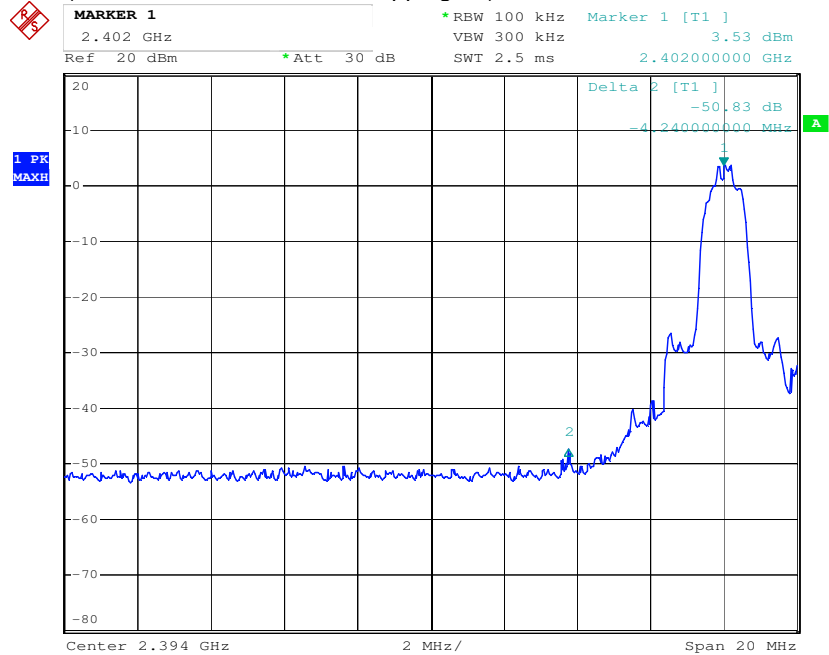
Date: 6.MAY.2013 14:52:33

Tx frequency: 2480MHz (conducted measurement; hopping on)



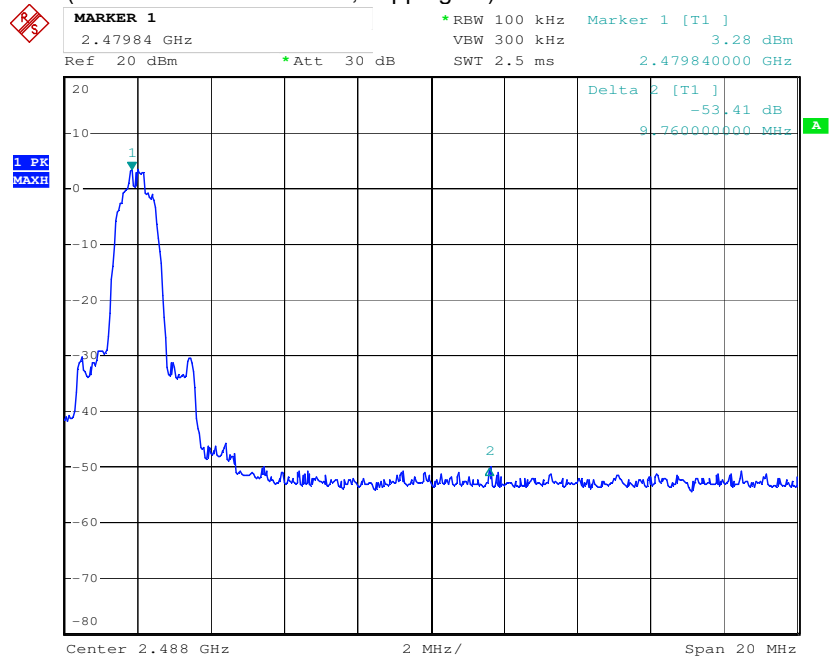
Date: 6.MAY.2013 14:51:12

Tx frequency: 2402MHz (conducted measurement; hopping off)



Date: 6.MAY.2013 14:54:12

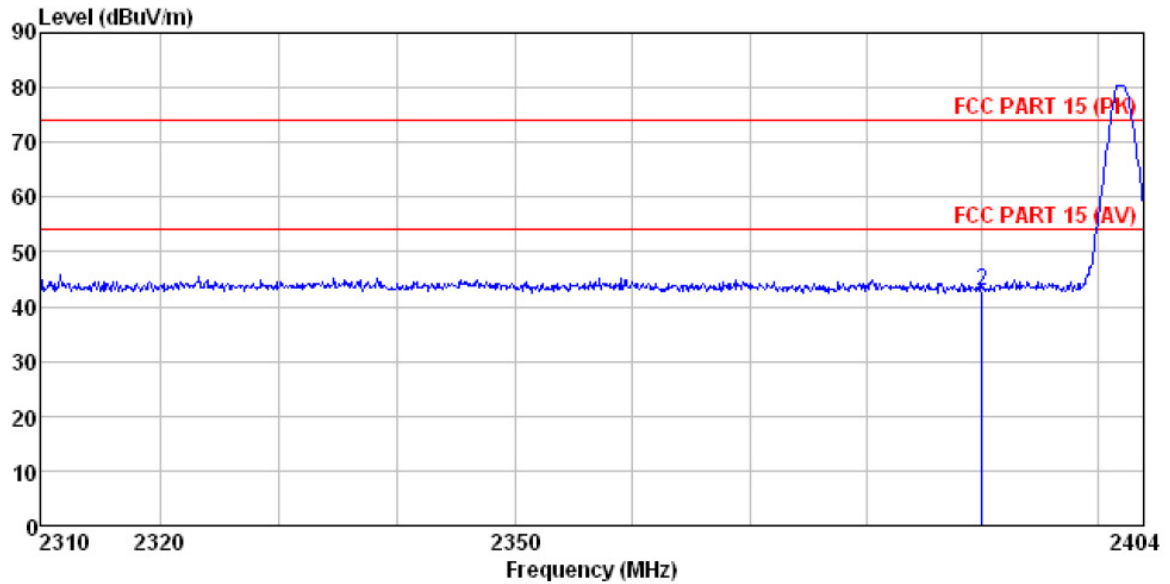
Tx frequency: 2480MHz (conducted measurement; hopping off)



Date: 6.MAY.2013 14:49:30



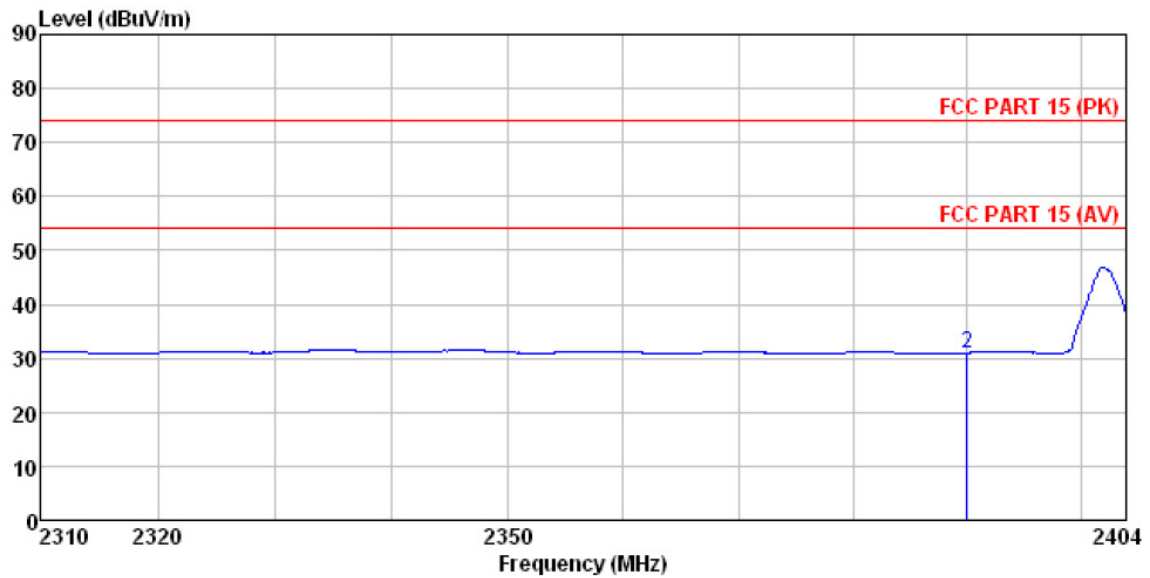
Tx frequency: 2402MHz (radiated measurement)



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TUV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2402MHz

|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |             |
|---|----------|-------------|--------|--------|--------|--------|--------|-------------|
|   |          | Level       | Factor | Loss   | Factor | Level  | Line   | Limit       |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB          |
| 1 | 2310.000 | 44.01       | 27.91  | 5.30   | 34.11  | 43.11  | 74.00  | -30.89 Peak |
| 2 | 2390.000 | 43.93       | 27.59  | 5.38   | 34.01  | 42.89  | 74.00  | -31.11 Peak |

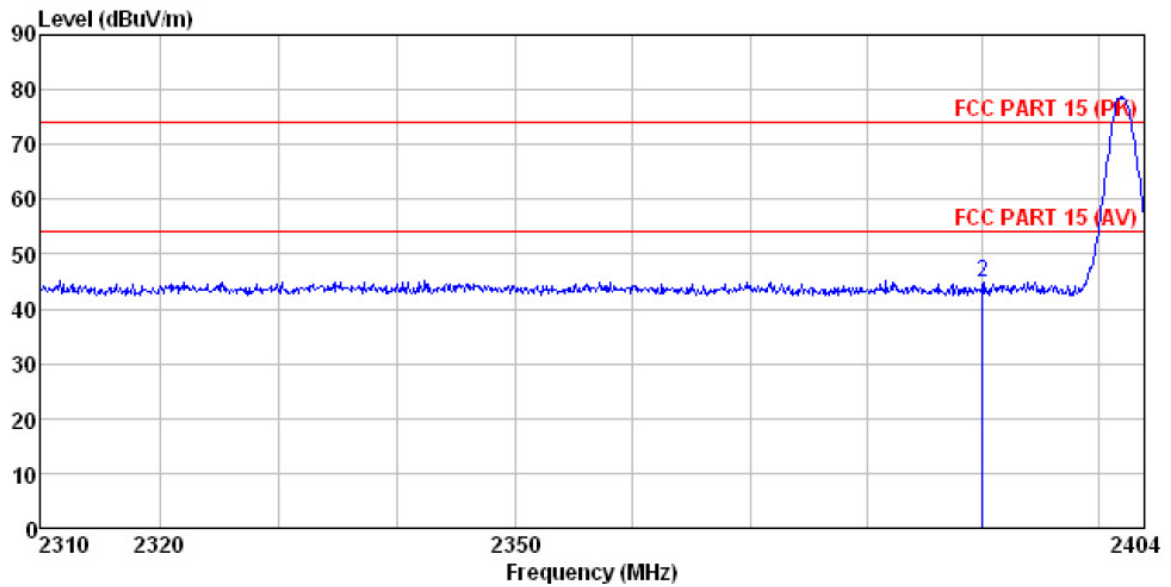
Vertical Polarization



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TÜV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2402MHz

|               | Read           | Antenna        | Cable        | Preamp       |                  | Limit            | Over         |         |
|---------------|----------------|----------------|--------------|--------------|------------------|------------------|--------------|---------|
| Freq          | Level          | Factor         | Loss         | Factor       | Level            | Line             | Limit        | Remark  |
| -----MHz----- | -----dBuV----- | -----dB/m----- | -----dB----- | -----dB----- | -----dBuV/m----- | -----dBuV/m----- | -----dB----- | -----   |
| 1 2310.000    | 32.00          | 27.91          | 5.30         | 34.11        | 31.10            | 54.00            | -22.90       | Average |
| 2 2390.000    | 32.07          | 27.59          | 5.38         | 34.01        | 31.03            | 54.00            | -22.97       | Average |

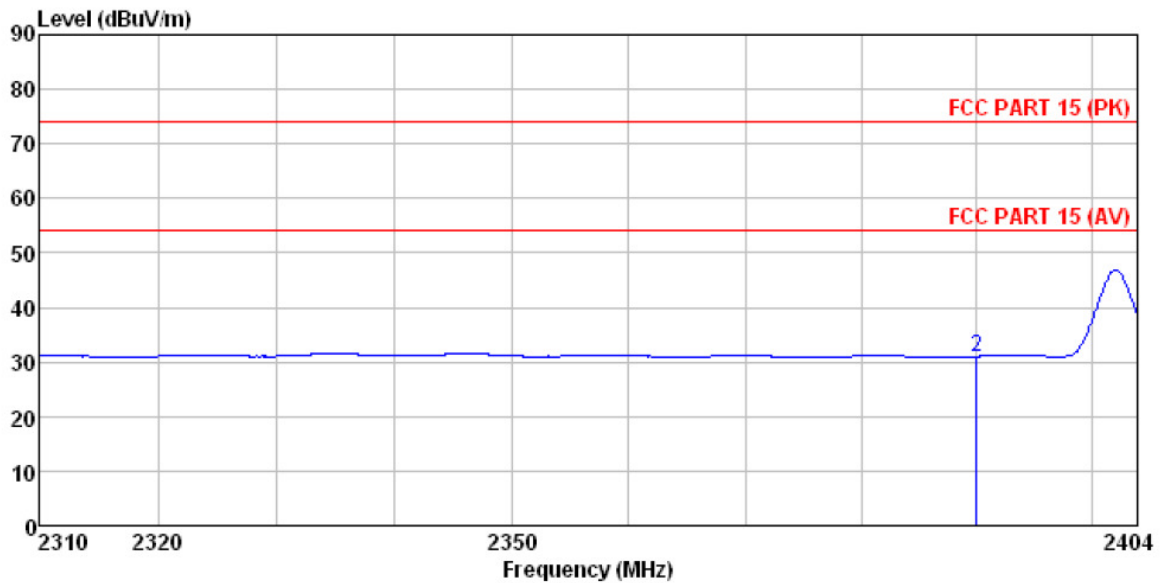
Vertical Polarization



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TUV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2402MHz

|      | Read     | Antenna | Cable | Preamp | Limit  | Over   |                   |
|------|----------|---------|-------|--------|--------|--------|-------------------|
| Freq | Level    | Factor  | Loss  | Factor | Line   | Limit  | Remark            |
| MHz  | dBuV     | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB                |
| 1    | 2310.000 | 44.06   | 27.91 | 5.30   | 34.11  | 43.16  | 74.00 -30.84 Peak |
| 2    | 2390.000 | 45.85   | 27.59 | 5.38   | 34.01  | 44.81  | 74.00 -29.19 Peak |

Horizontal Polarization

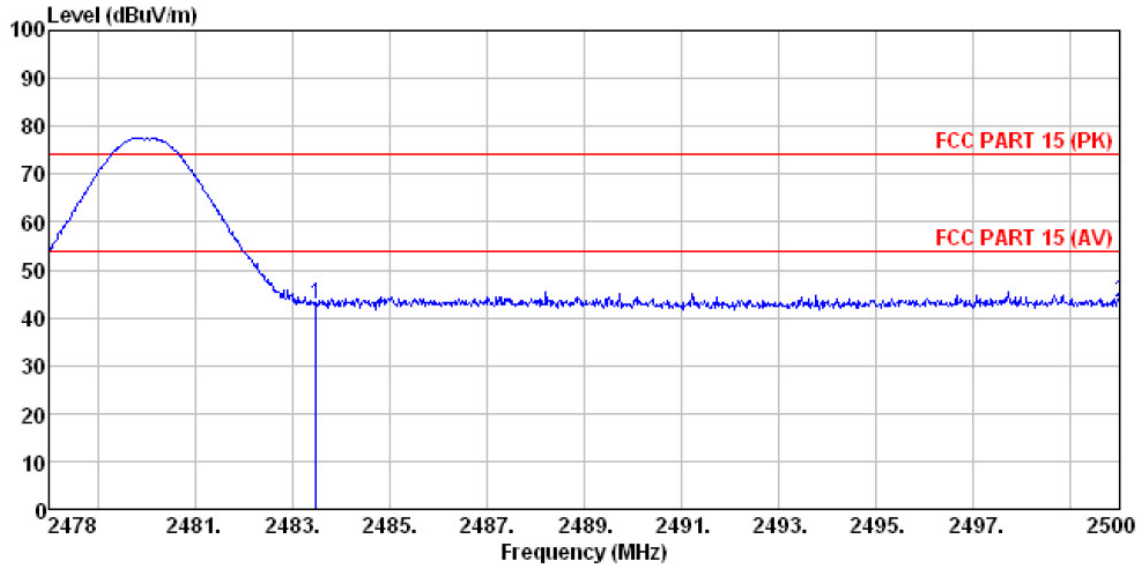


Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TUV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2402MHz

|   | Freq     | Read   | Antenna | Cable  | Preamp | Limit  | Over   |                |
|---|----------|--------|---------|--------|--------|--------|--------|----------------|
|   | Level    | Factor | Loss    | Factor | Level  | Line   | Limit  | Remark         |
|   | MHz      | dBuV   | dB/m    | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 | 2310.000 | 32.11  | 27.91   | 5.30   | 34.11  | 31.21  | 54.00  | -22.79 Average |
| 2 | 2390.000 | 32.06  | 27.59   | 5.38   | 34.01  | 31.02  | 54.00  | -22.98 Average |

Horizontal Polarization

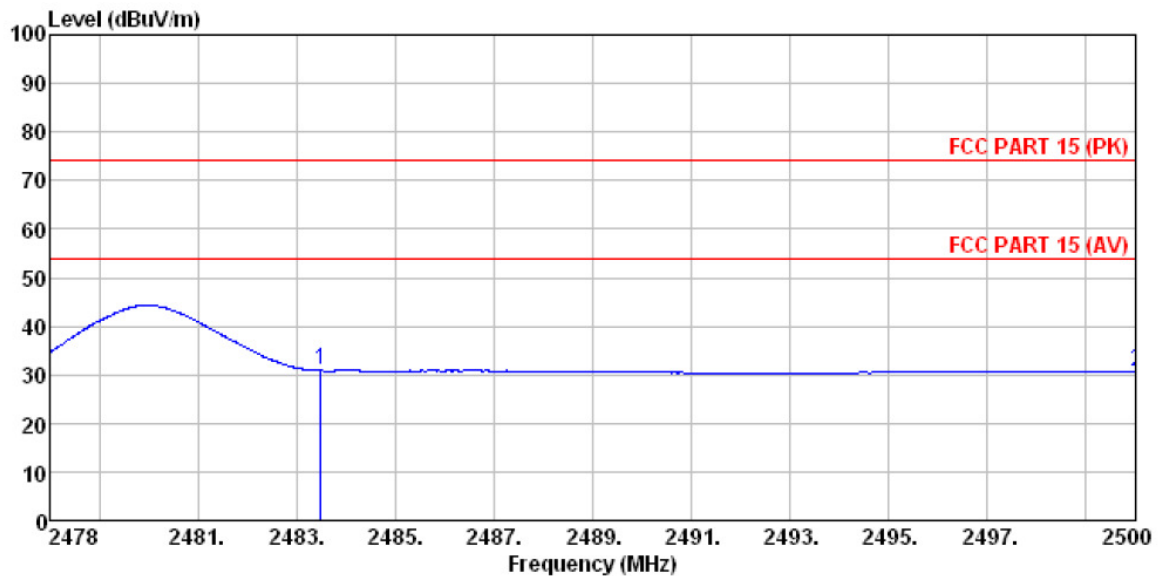
Tx frequency: 2480MHz (radiated measurement)



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TUV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2480MHz

|   | Freq     | Read  | Antenna | Cable | Preamp | Limit  | Over   |             |
|---|----------|-------|---------|-------|--------|--------|--------|-------------|
|   |          | Level | Factor  | Loss  | Factor | Line   | Limit  | Remark      |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB          |
| 1 | 2483.500 | 43.84 | 27.53   | 5.47  | 33.92  | 42.92  | 74.00  | -31.08 Peak |
| 2 | 2500.000 | 43.87 | 27.55   | 5.49  | 33.90  | 43.01  | 74.00  | -30.99 Peak |

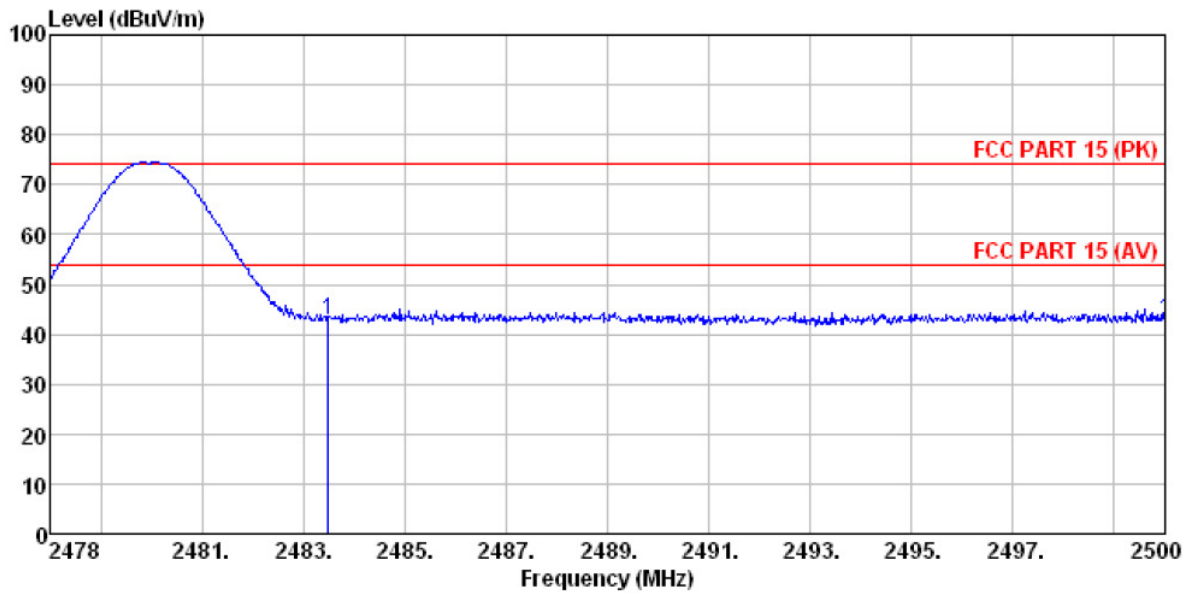
Vertical Polarization



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TUV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2480MHz

|   | Freq     | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit  | Over<br>Limit | Remark  |
|---|----------|---------------|-------------------|---------------|------------------|--------|--------|---------------|---------|
|   | MHz      | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m | dB            |         |
| 1 | 2483.500 | 31.75         | 27.53             | 5.47          | 33.92            | 30.83  | 54.00  | -23.17        | Average |
| 2 | 2500.000 | 31.48         | 27.55             | 5.49          | 33.90            | 30.62  | 54.00  | -23.38        | Average |

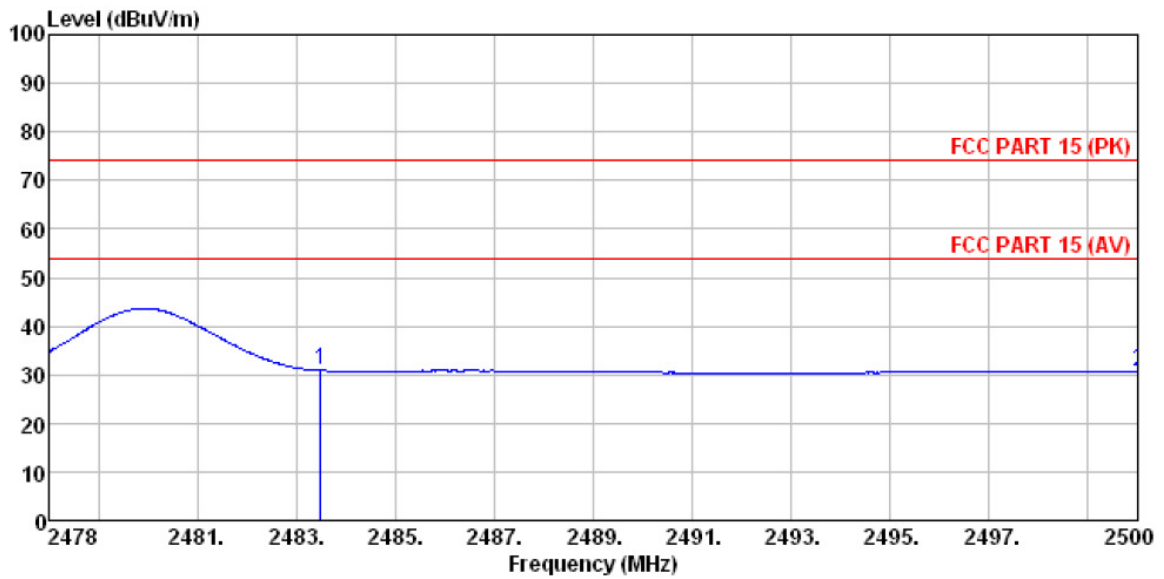
Vertical Polarization



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TUV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2480MHz

|   |          | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |             |
|---|----------|-------------|--------|--------|--------|--------|--------|-------------|
|   | Freq     | Level       | Factor | Loss   | Factor | Level  | Line   | Limit       |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB          |
| 1 | 2483.500 | 43.71       | 27.53  | 5.47   | 33.92  | 42.79  | 74.00  | -31.21 Peak |
| 2 | 2500.000 | 43.41       | 27.55  | 5.49   | 33.90  | 42.55  | 74.00  | -31.45 Peak |

Horizontal Polarization



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
 EUT : BT HS  
 Model No. : 00130408003-002  
 Sample No. : MINI  
 TUV Order No: 144003834  
 Test Mode : TX on mode  
 Remark : 2480MHz

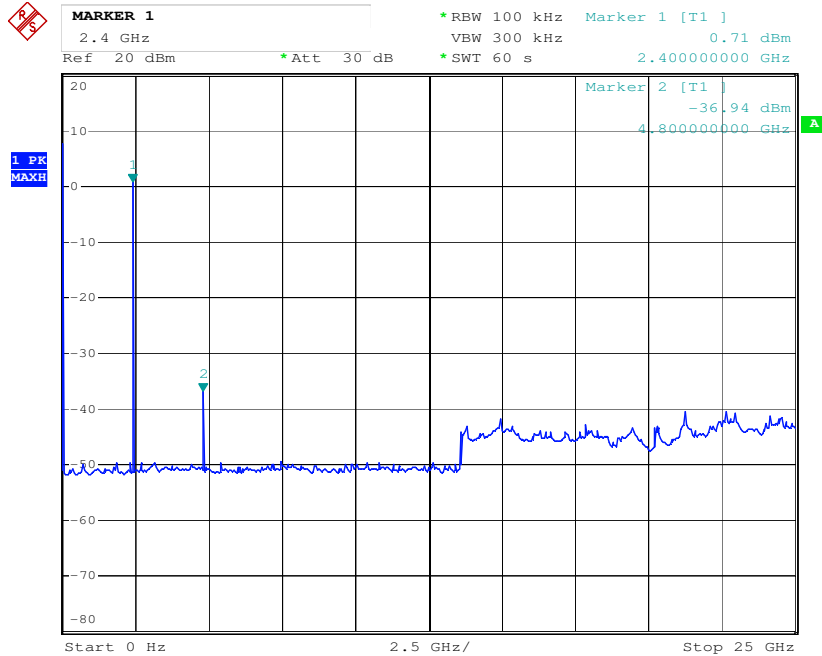
|      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |       |
|------|-------------|--------|--------|--------|--------|--------|-------|
| Freq | Level       | Factor | Loss   | Factor | Level  | Line   | Limit |
| MHz  | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |
| 1    | 2483.500    | 31.77  | 27.53  | 5.47   | 33.92  | 30.85  | 54.00 |
| 2    | 2500.000    | 31.49  | 27.55  | 5.49   | 33.90  | 30.63  | 54.00 |

Horizontal Polarization



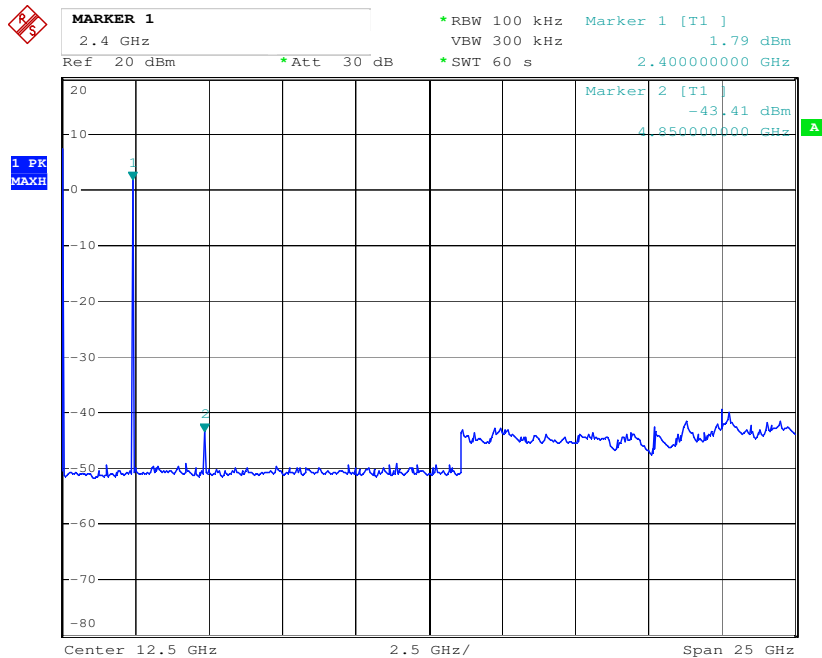
## Spurious Emissions - Conducted

Tx frequency: 2402MHz



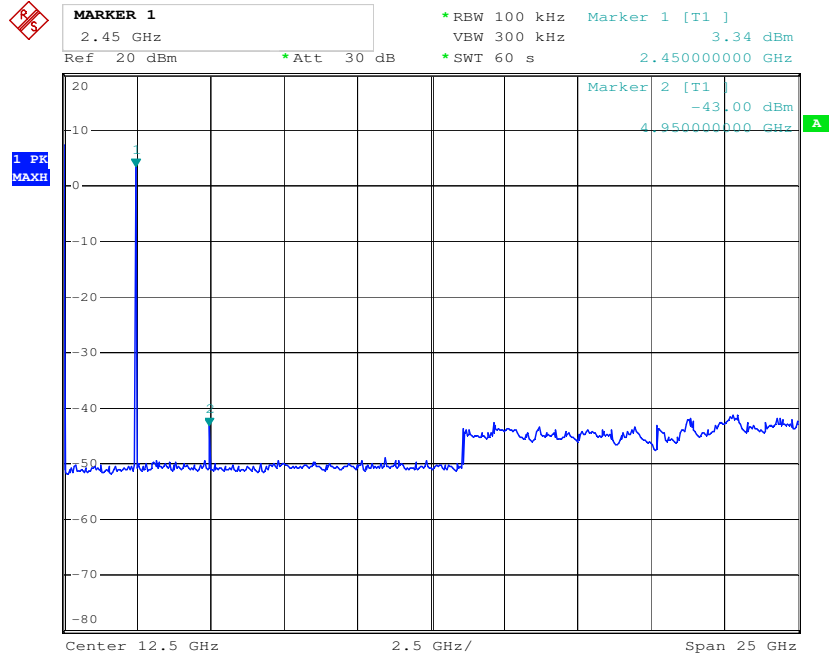
Date: 6.MAY.2013 14:57:18

Tx frequency: 2441MHz



Date: 6.MAY.2013 15:00:49

Tx frequency: 2480MHz



Date: 6.MAY.2013 15:04:53