## 6.5.15 Up Link / A-B Block / INTERMODULATION

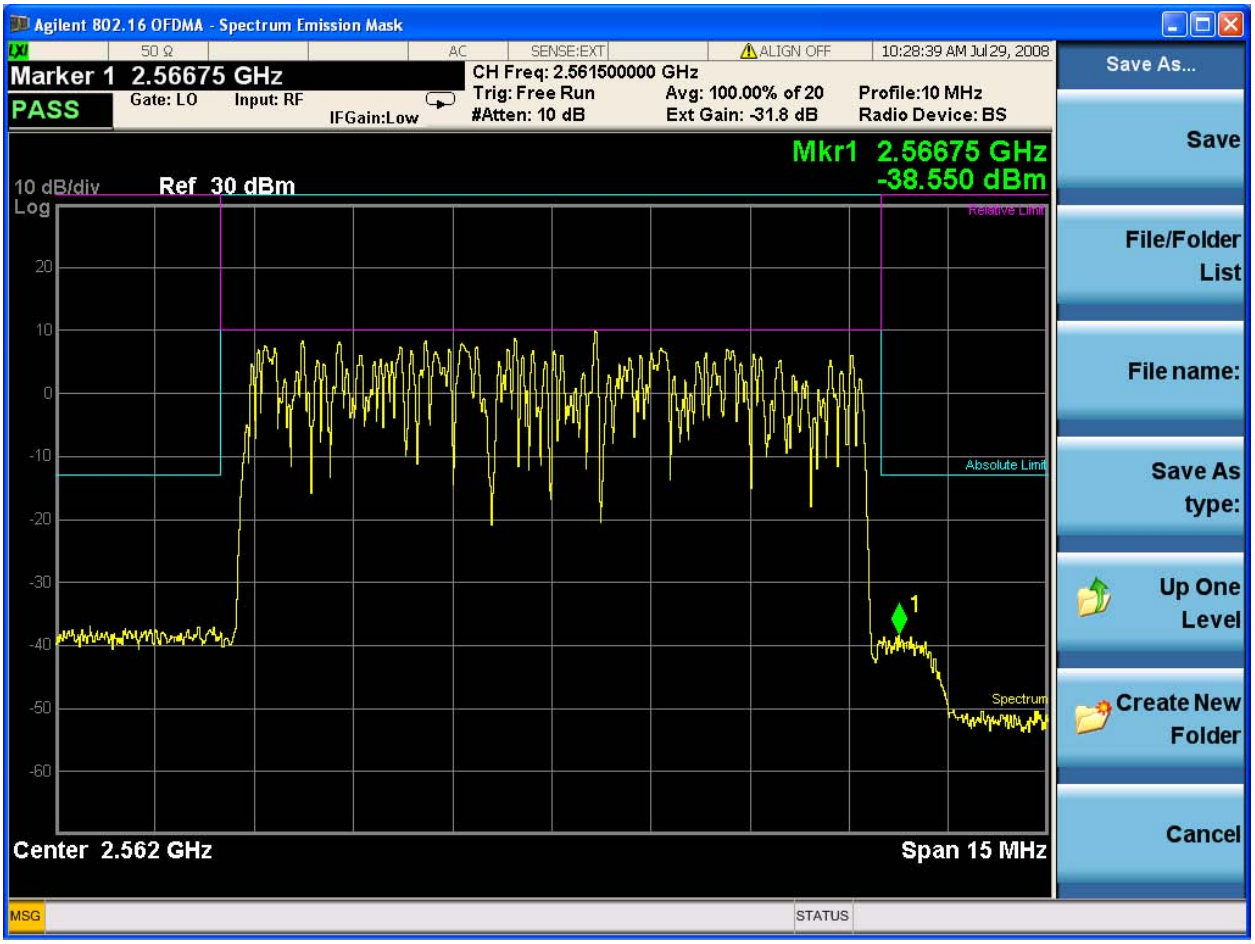
| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

## 6.5.16 Up Link / C-D Block / Low Edge

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | 1st FA (2541.5 MHz) |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 10 MHz |

## 6.5.17 Up Link / C-D Block / High Edge

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | 3rd FA (2561.5 MHz) |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 10 MHz |

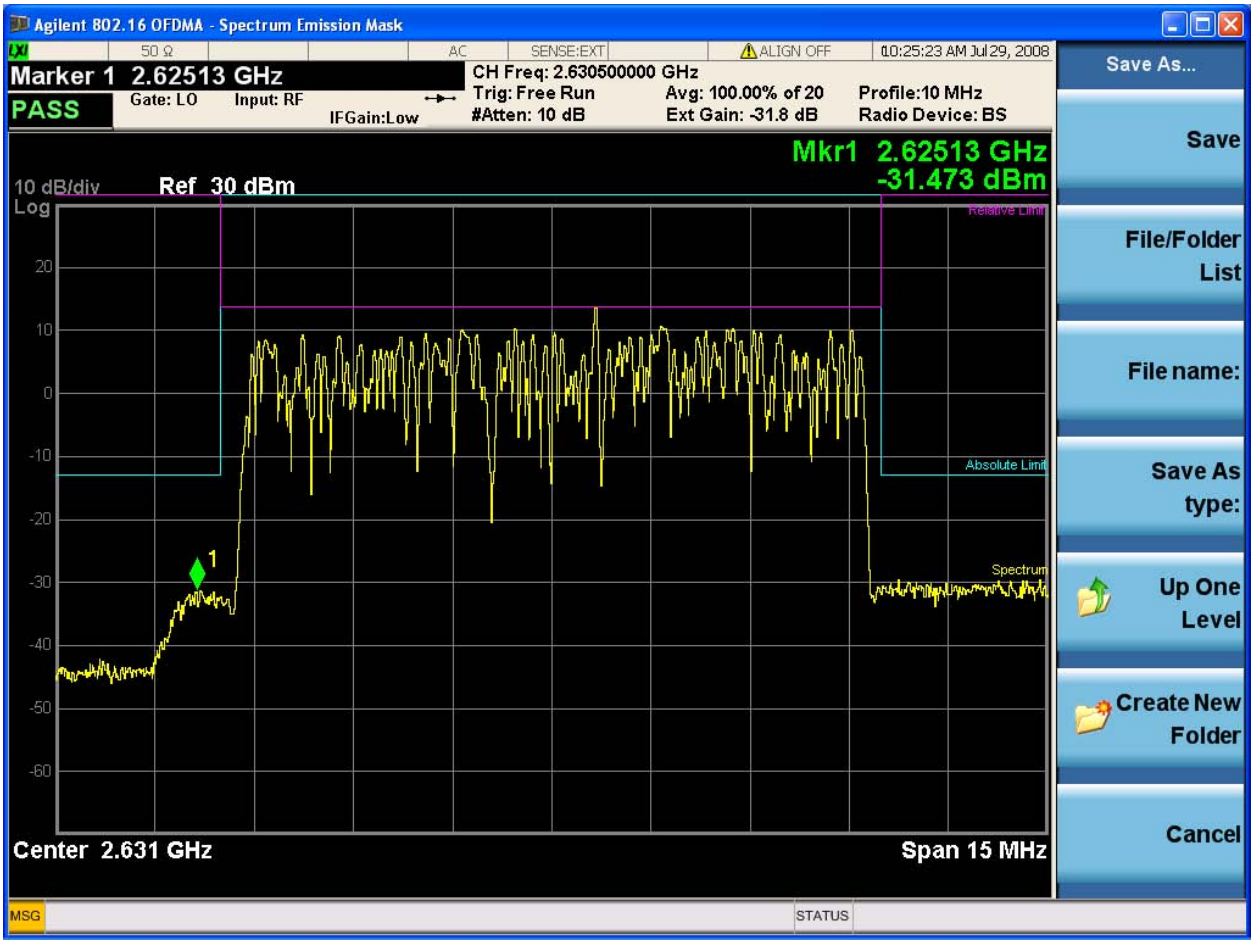


## 6.5.18 Up Link / C-D Block / INTERMODULATION

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

## 6.5.19 Up Link / E-F Block / Low Edge

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | 1st FA (2630.5 MHz) |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 10 MHz |



## 6.5.20 Up Link / E-F Block / High Edge

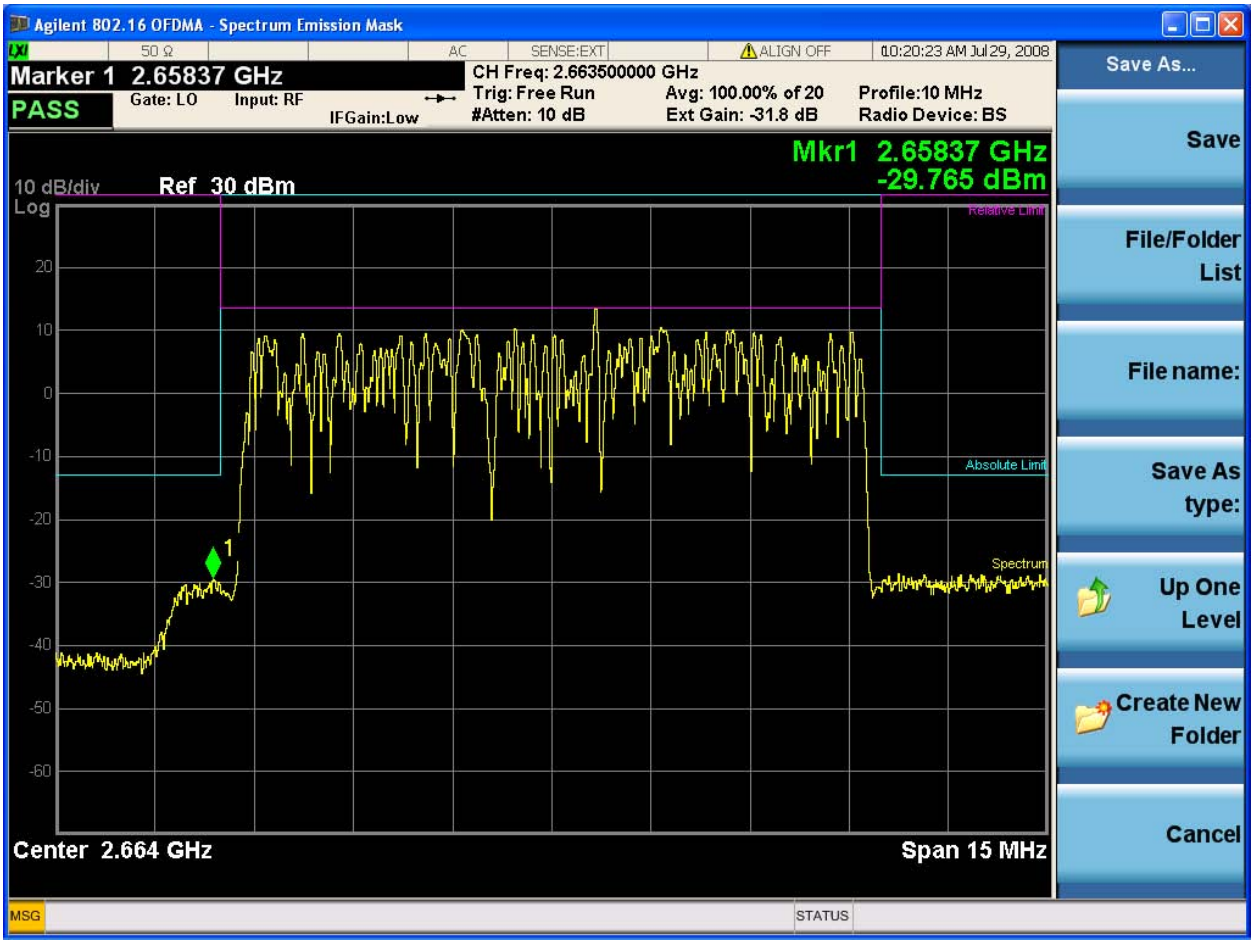
| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | 3rd FA (2650.5 MHz) |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 10 MHz |

## 6.5.21 Up Link / E-F Block / INTERMODULATION

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

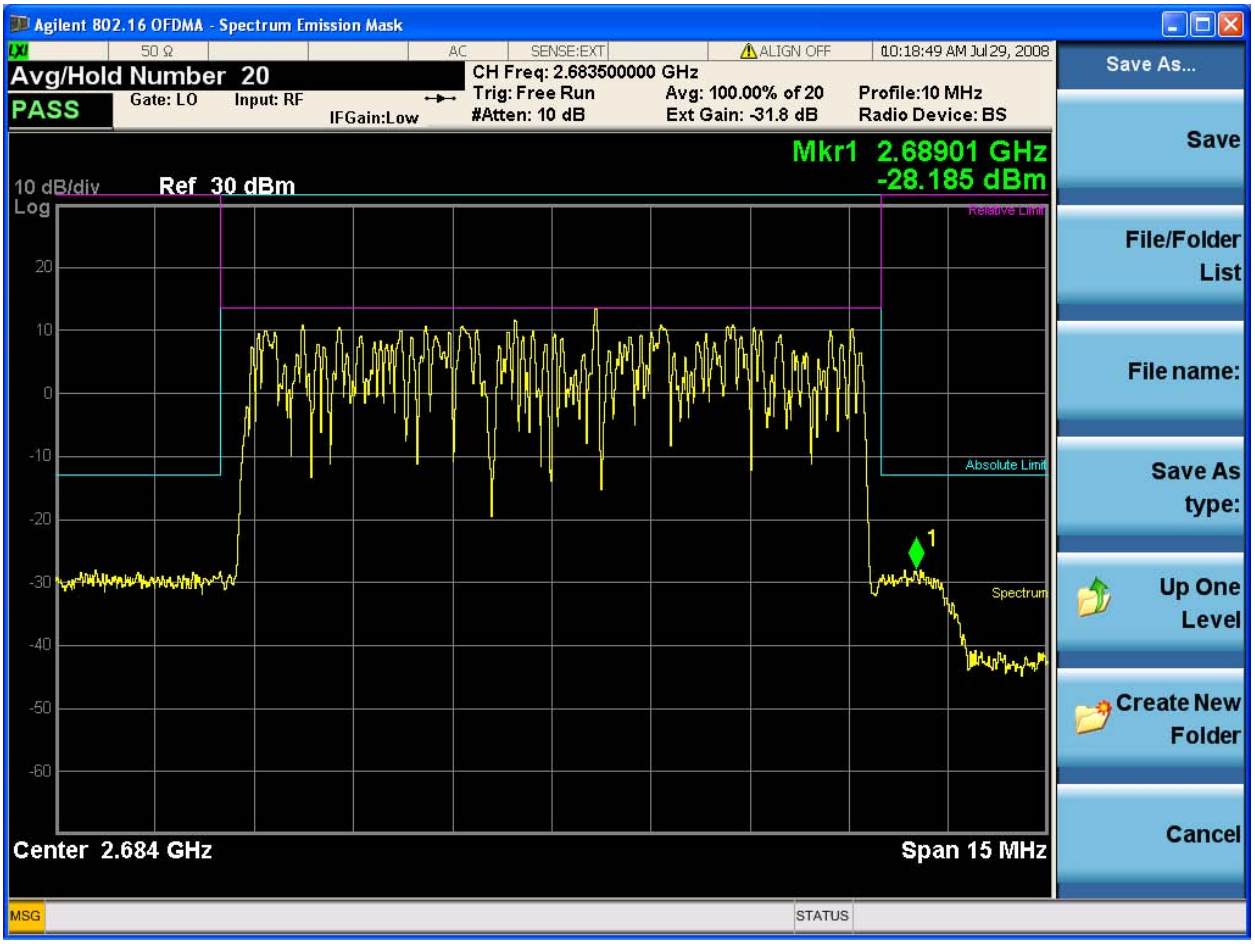
## 6.5.22 Up Link / H-G Block / Low Edge

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | 1st FA (2663.5 MHz) |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 10 MHz |



## 6.5.23 Up Link / H-G Block / High Edge

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | 3rd FA (2683.5 MHz) |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 10 MHz |



## 6.5.24 Up Link / H-G Block / INTERMODULATION

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

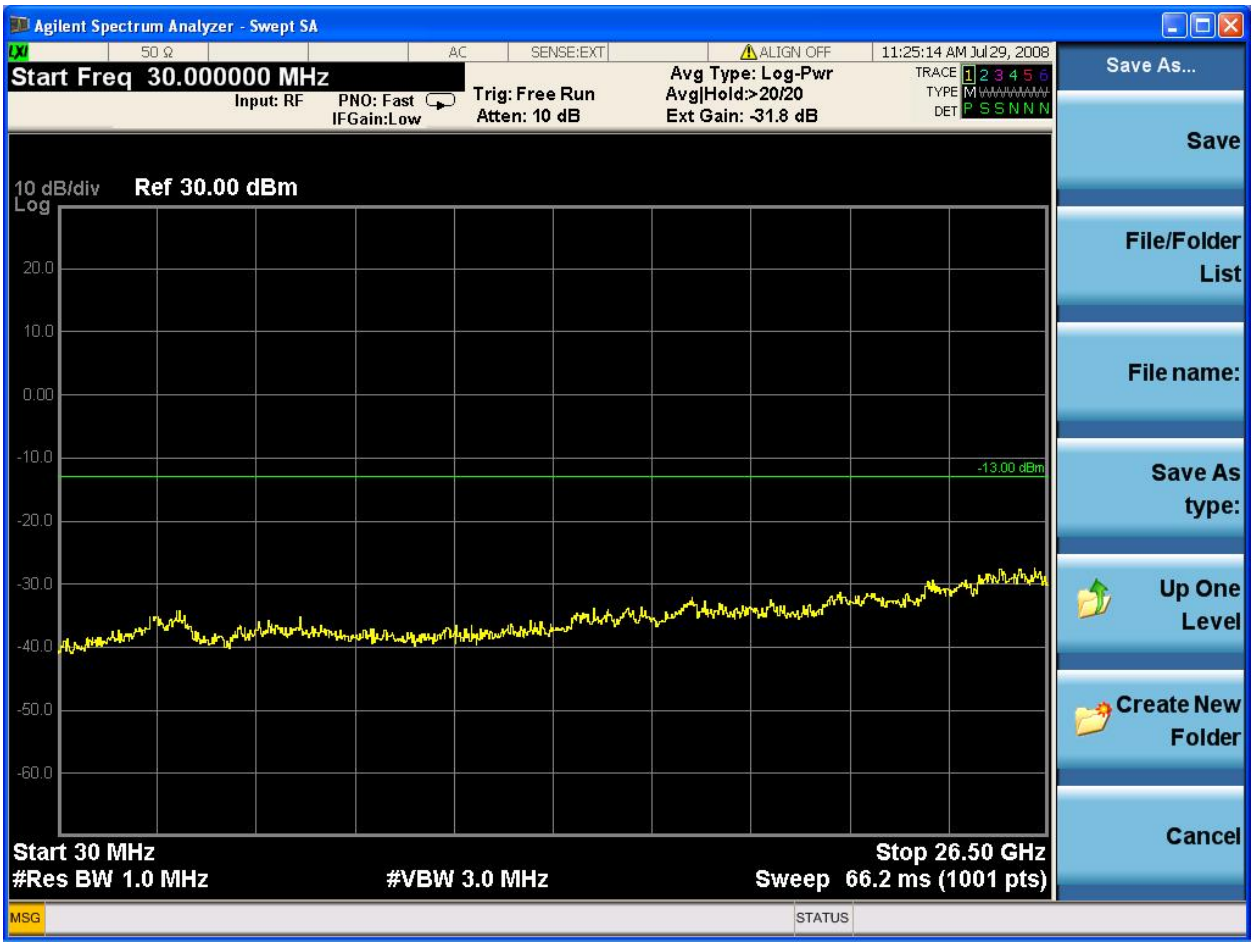
## 6.6 Field Strength of Spurious Radiation

### 6.6.1 Down Link / A-B Block

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Down Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

### 6.6.2 Down Link / C-D Block

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Down Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |



### 6.6.3 Down Link / E-F Block

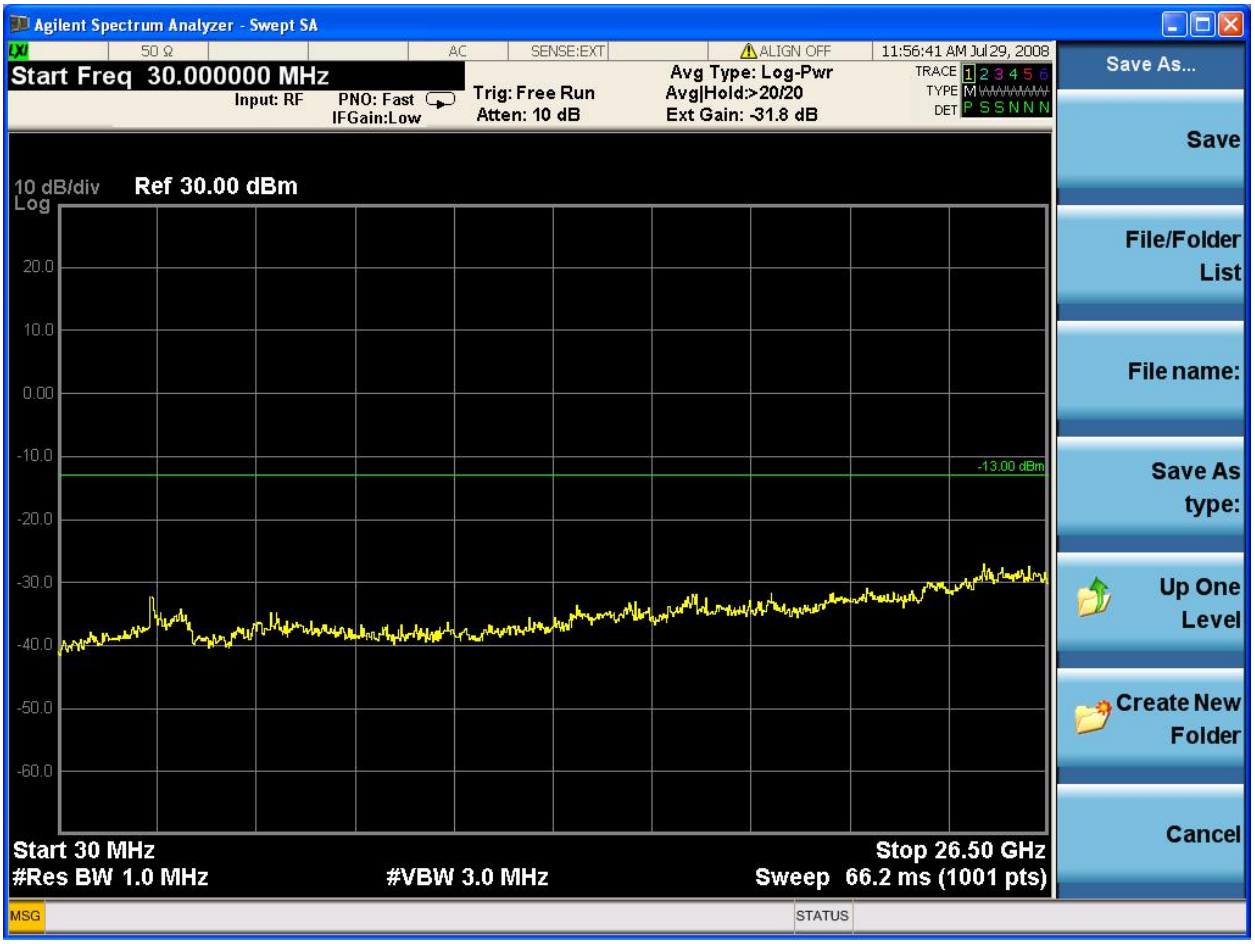
| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Down Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

### 6.6.4 Down Link / F-G Block

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Down Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

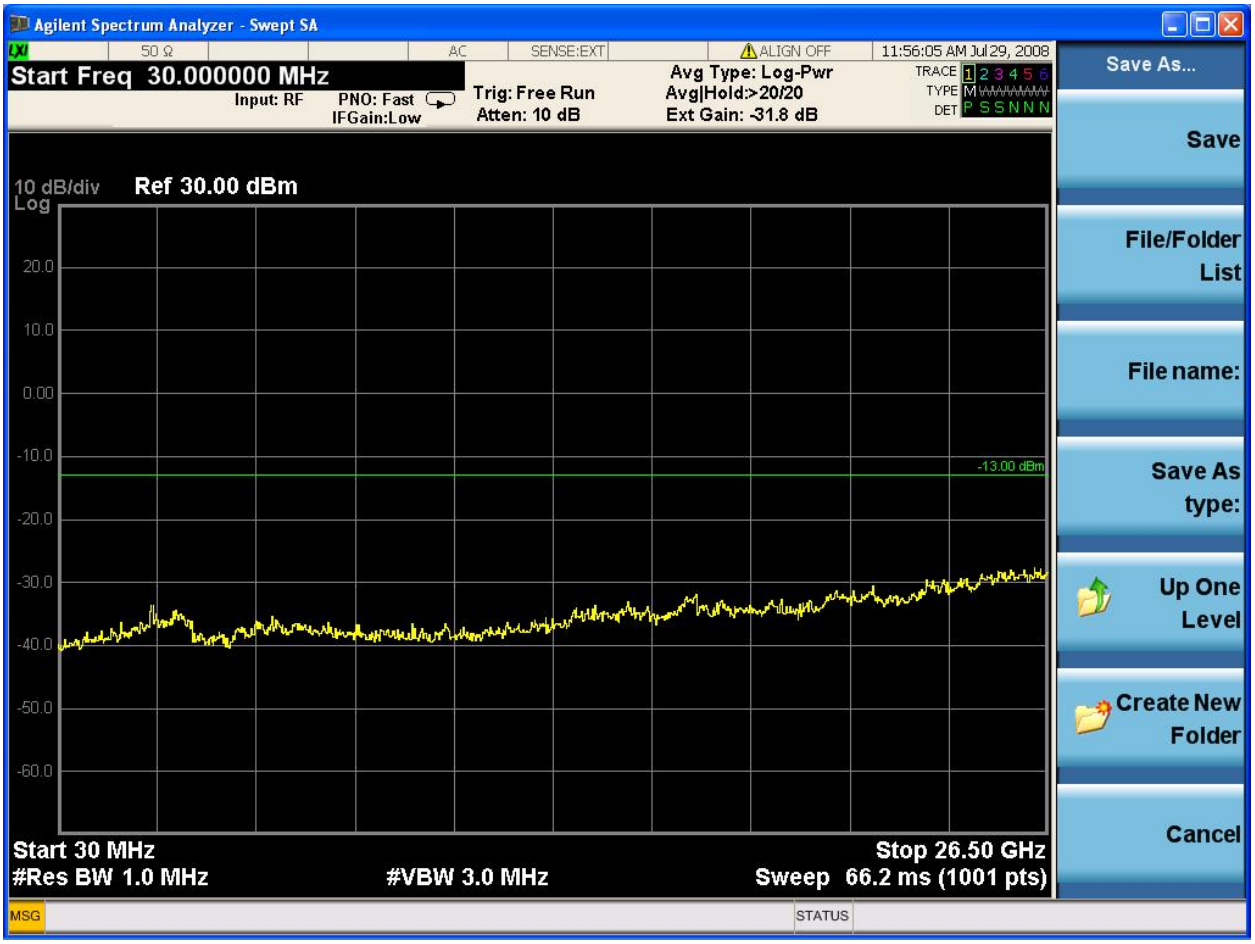
### 6.6.5 Up Link / A-B Block

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |



### 6.6.6 Up Link / C-D Block

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

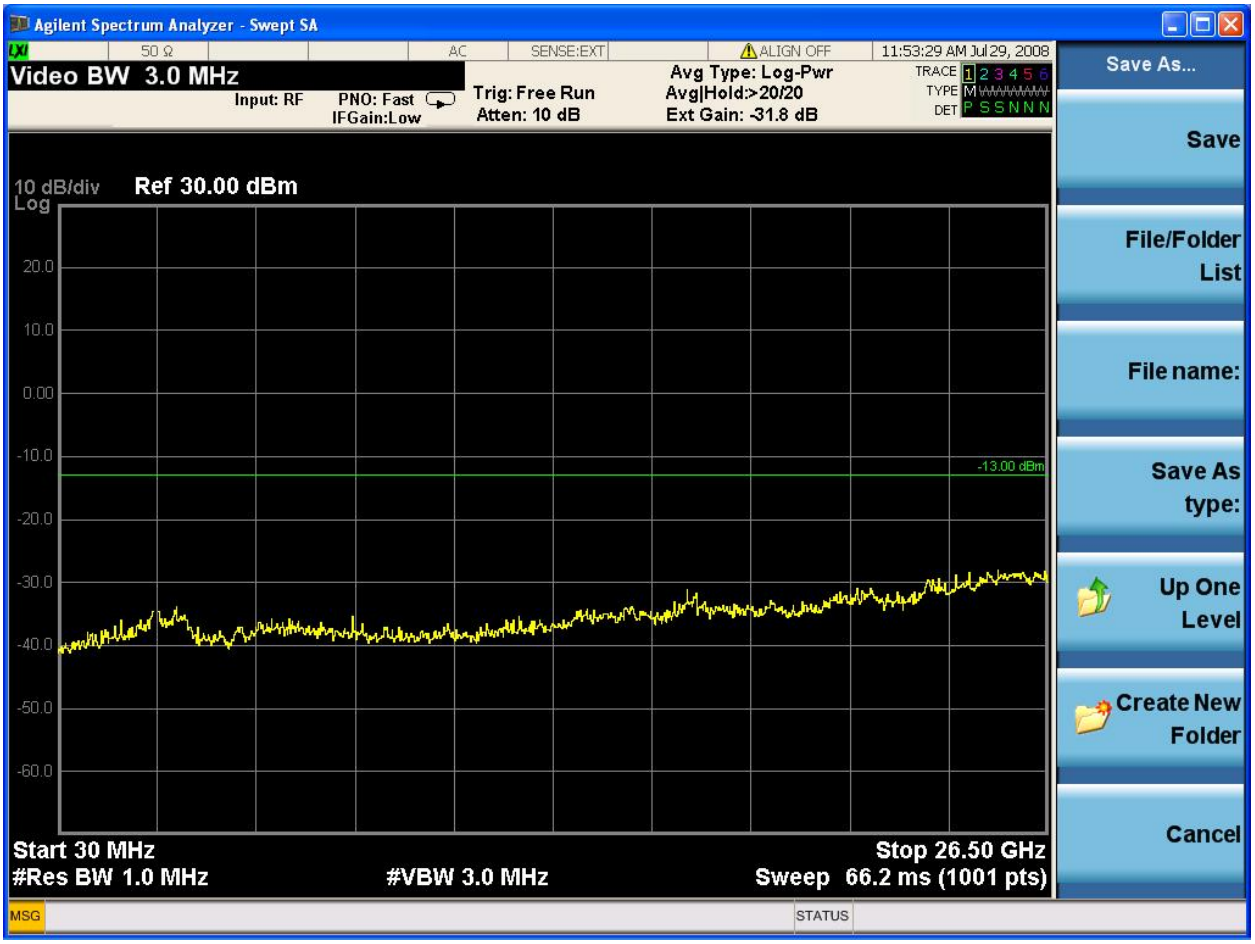


### 6.6.7 Up Link / E-F Block

| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |

### 6.6.8 Up Link / F-G Block

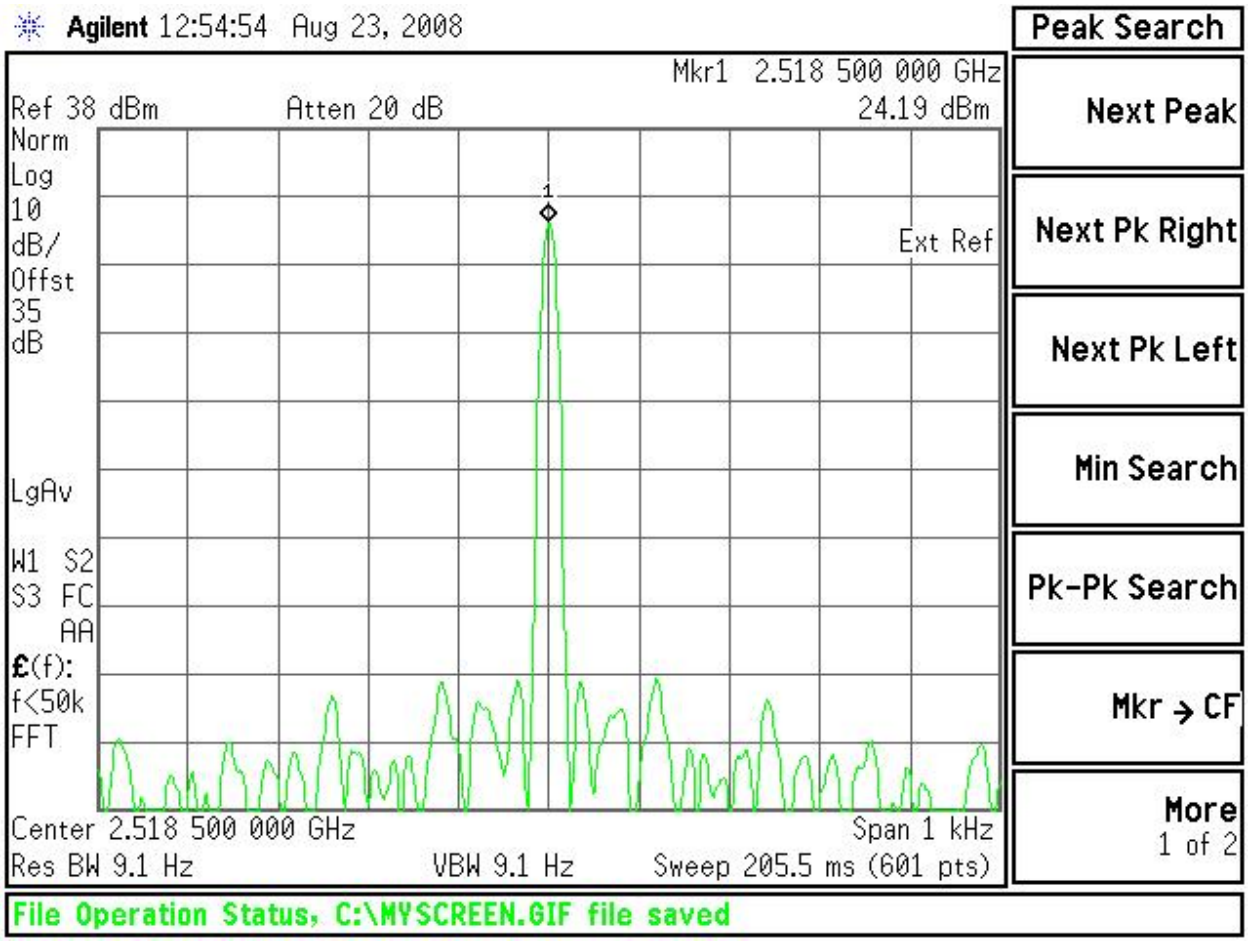
| | |
|---|---|
| FCC Rules : | Part 2 §2.1051 & §27.53(l) |
| Path : | Up Link |
| Operating Frequency : | Full FA |
| Input Level : | -56 dBm |
| System Gain : | 80 dB |
| Bandwidth : | 30 MHz |



# 6.7 Frequency Stability / Temperature Variation

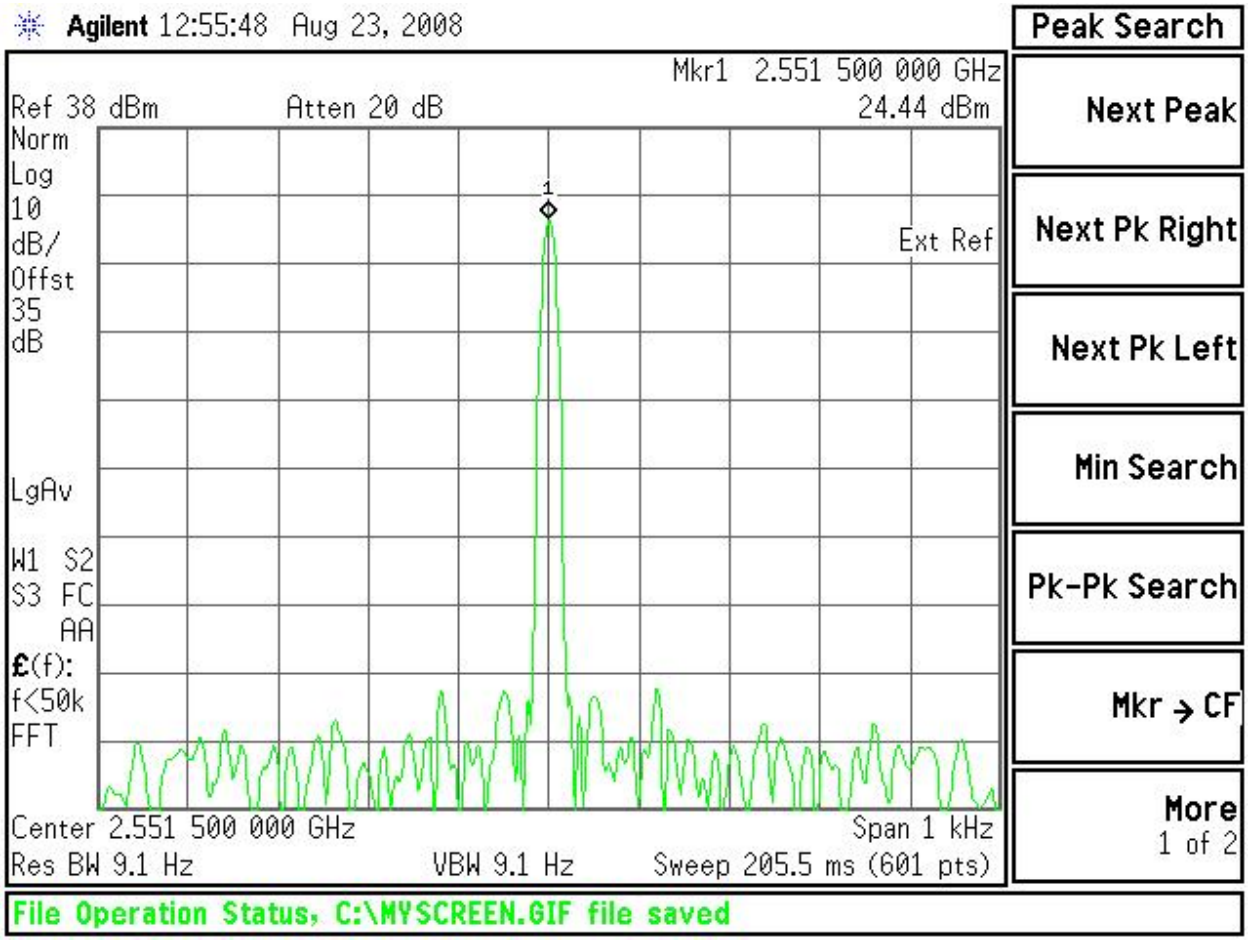
## 6.7.1 Test Result 1 (Down Link / A-B Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Down Link |
| Operating Frequency : | 2518.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



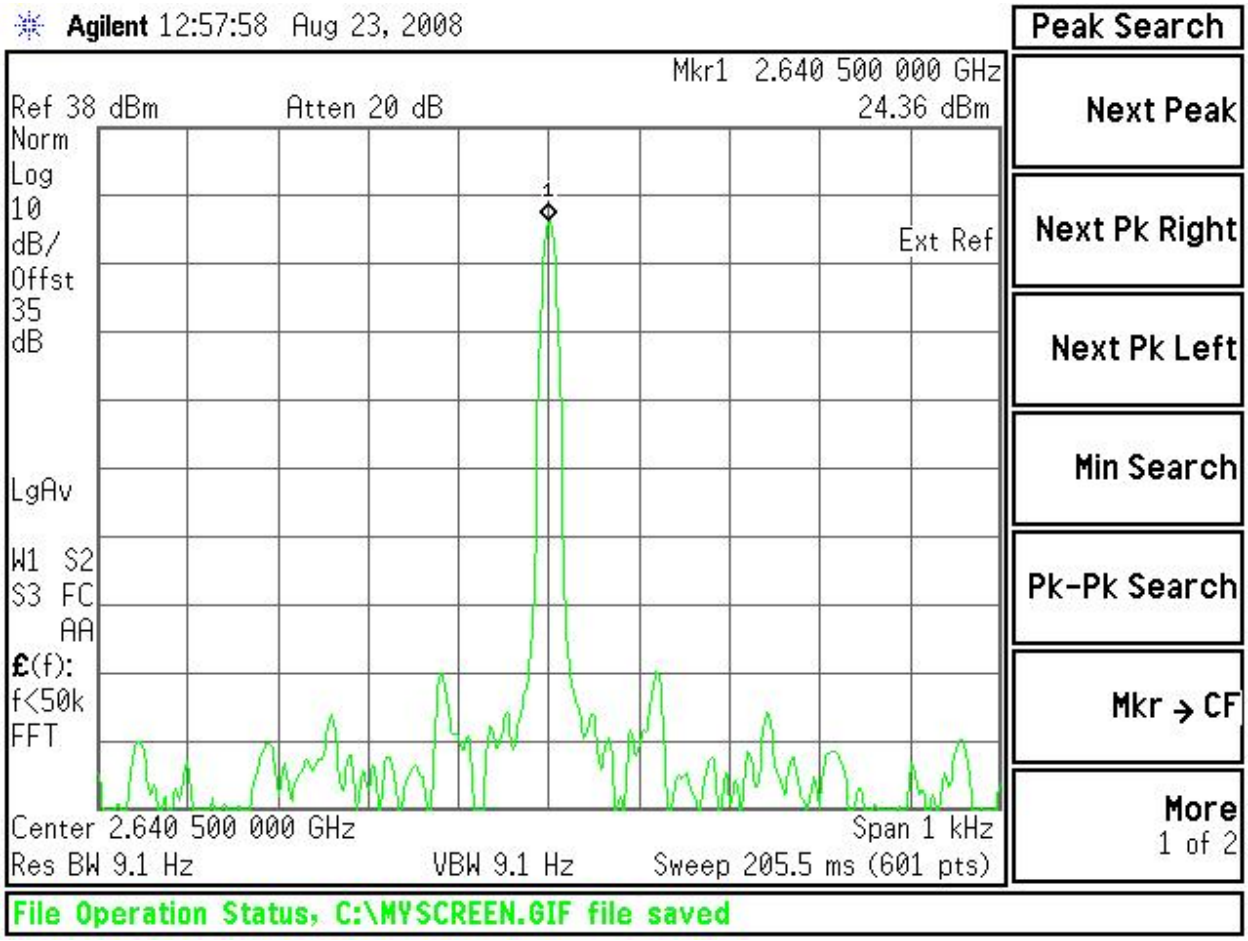
### 6.7.2 Test Result 2 (Down Link / C-D Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Down Link |
| Operating Frequency : | 2551.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



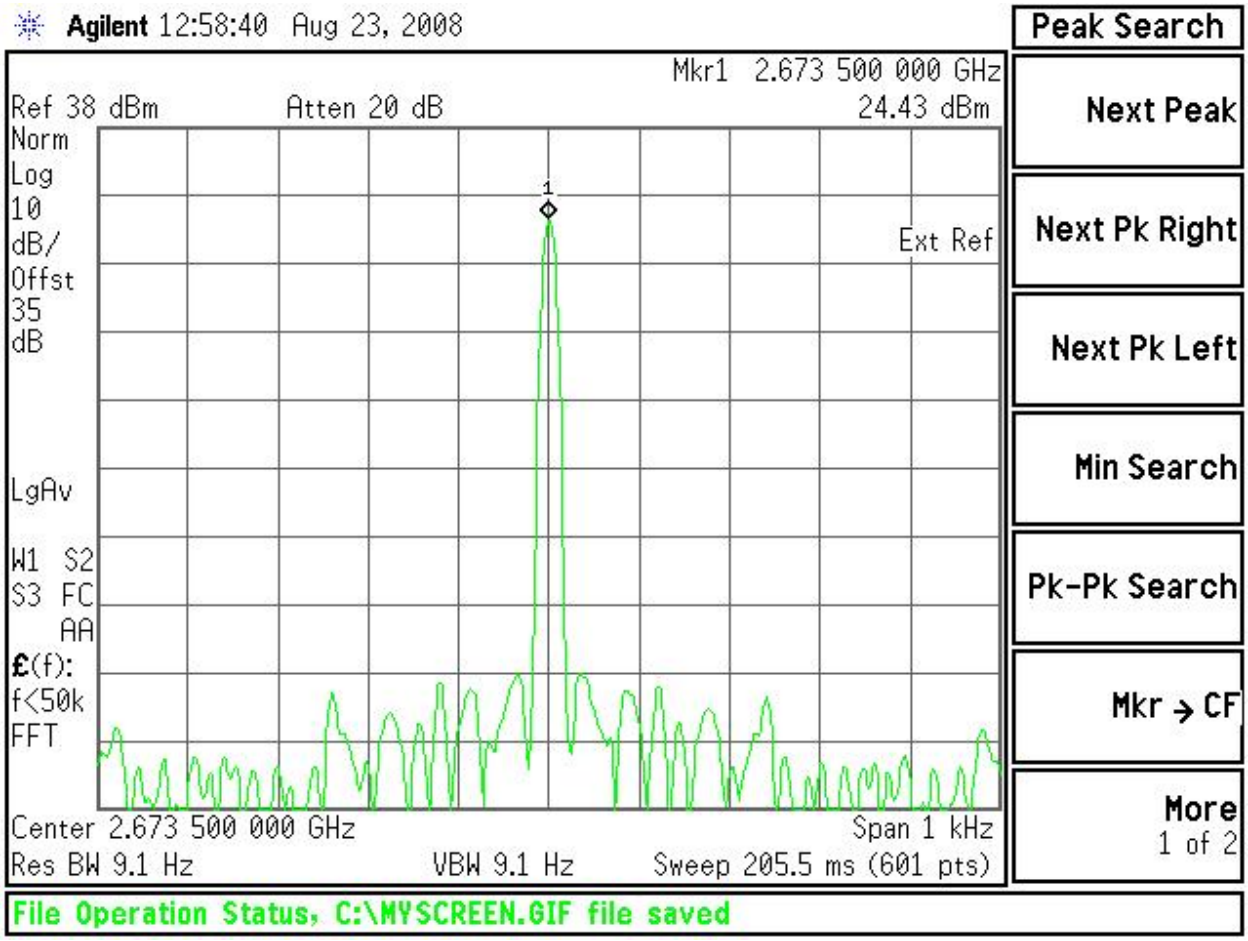
### 6.7.3 Test Result 3 (Down Link / E-F Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Down Link |
| Operating Frequency : | 2640.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



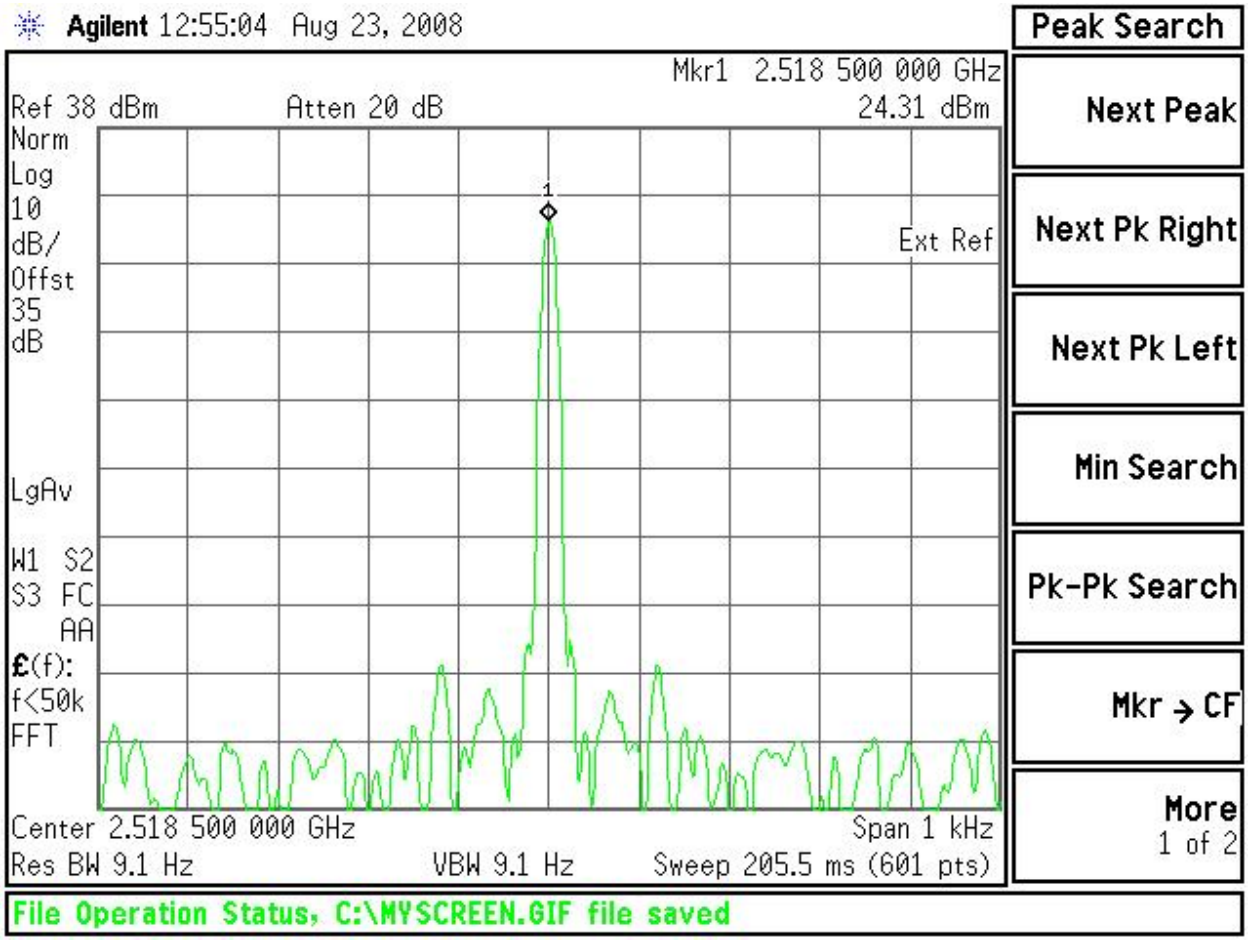
### 6.7.4 Test Result 4 (Down Link / G-H Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Down Link |
| Operating Frequency : | 2673.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



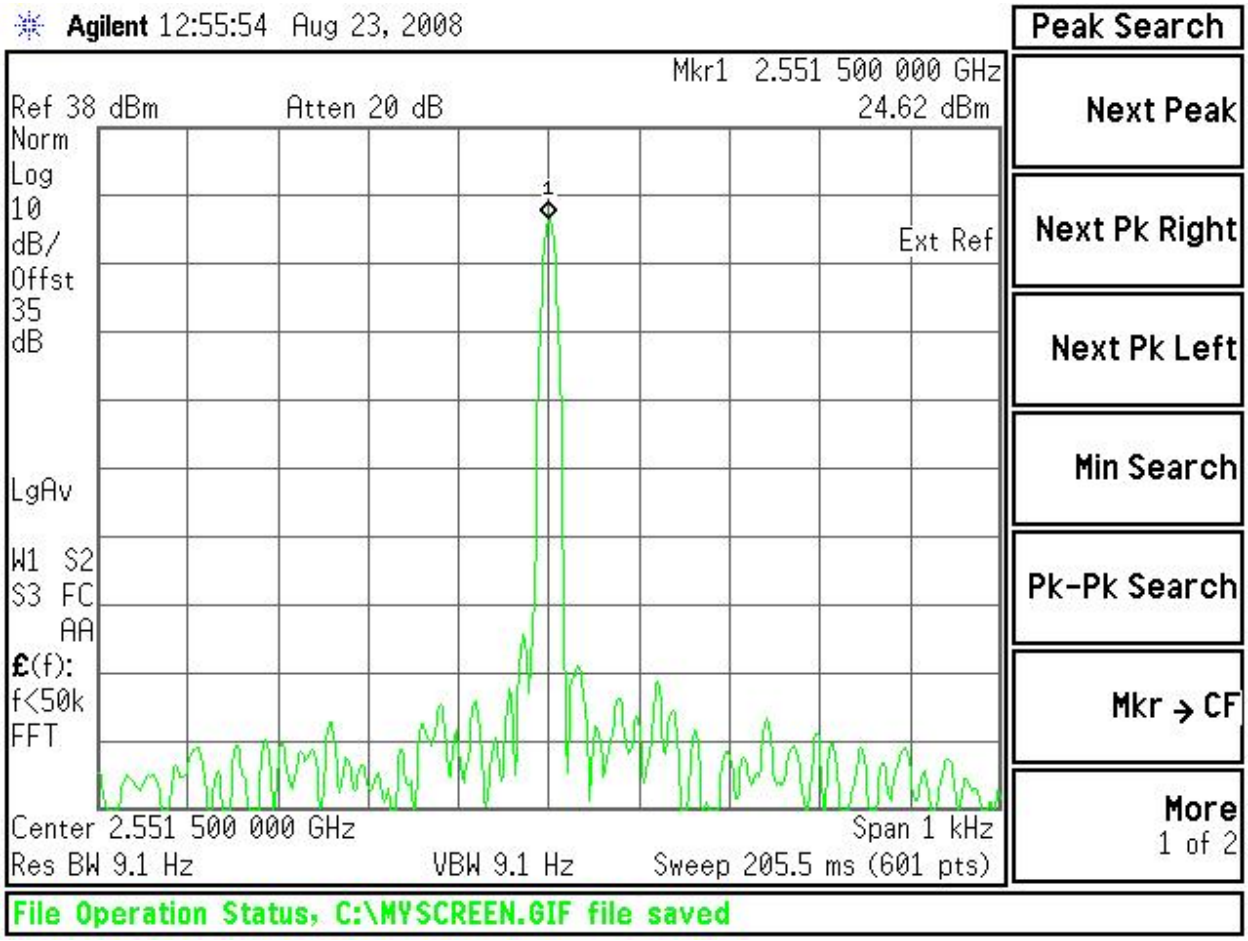
## 6.7.5 Test Result 5 (Up Link / A-B Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Up Link |
| Operating Frequency : | 2518.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



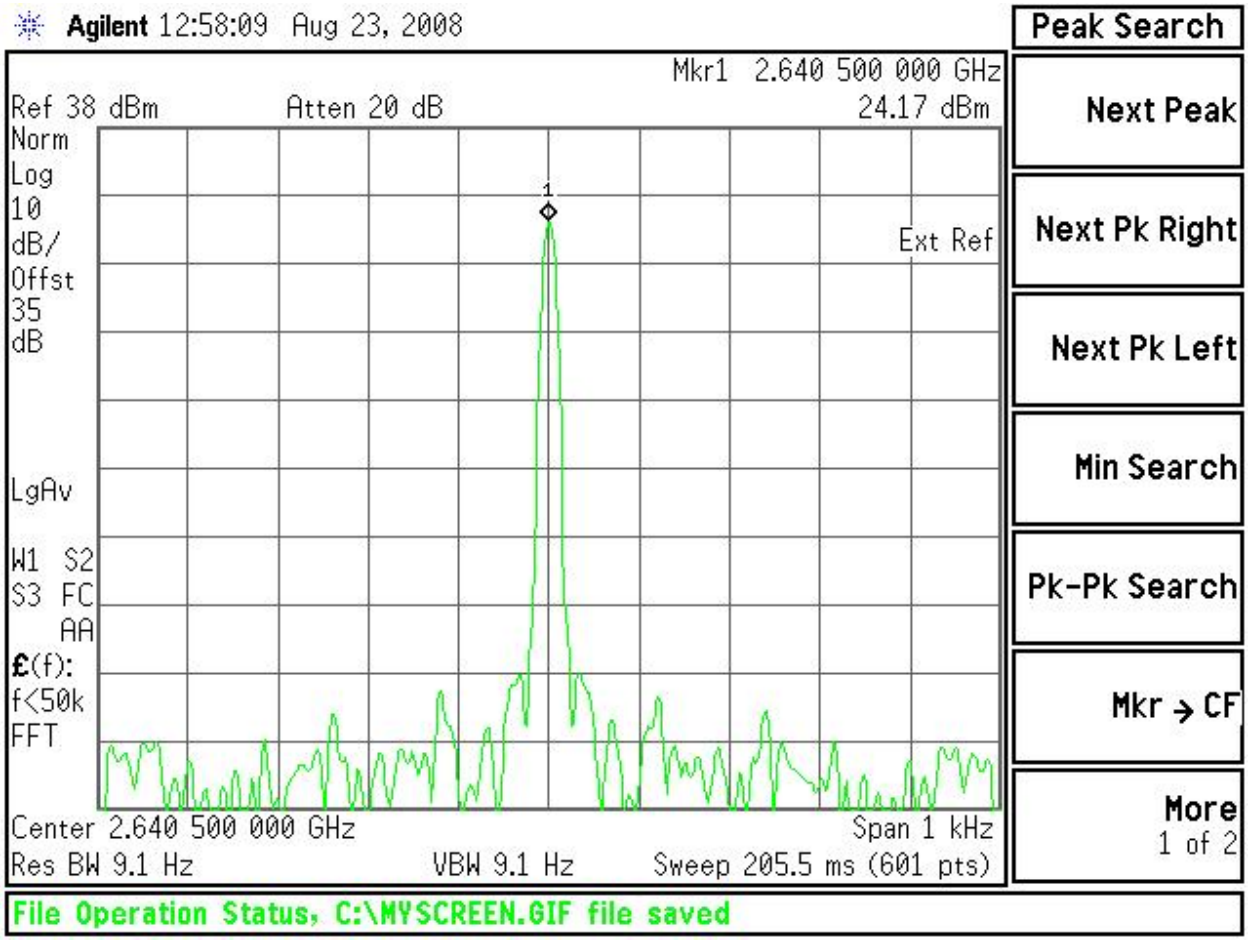
### 6.7.6 Test Result 6 (Up Link / C-D Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Up Link |
| Operating Frequency : | 2551.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



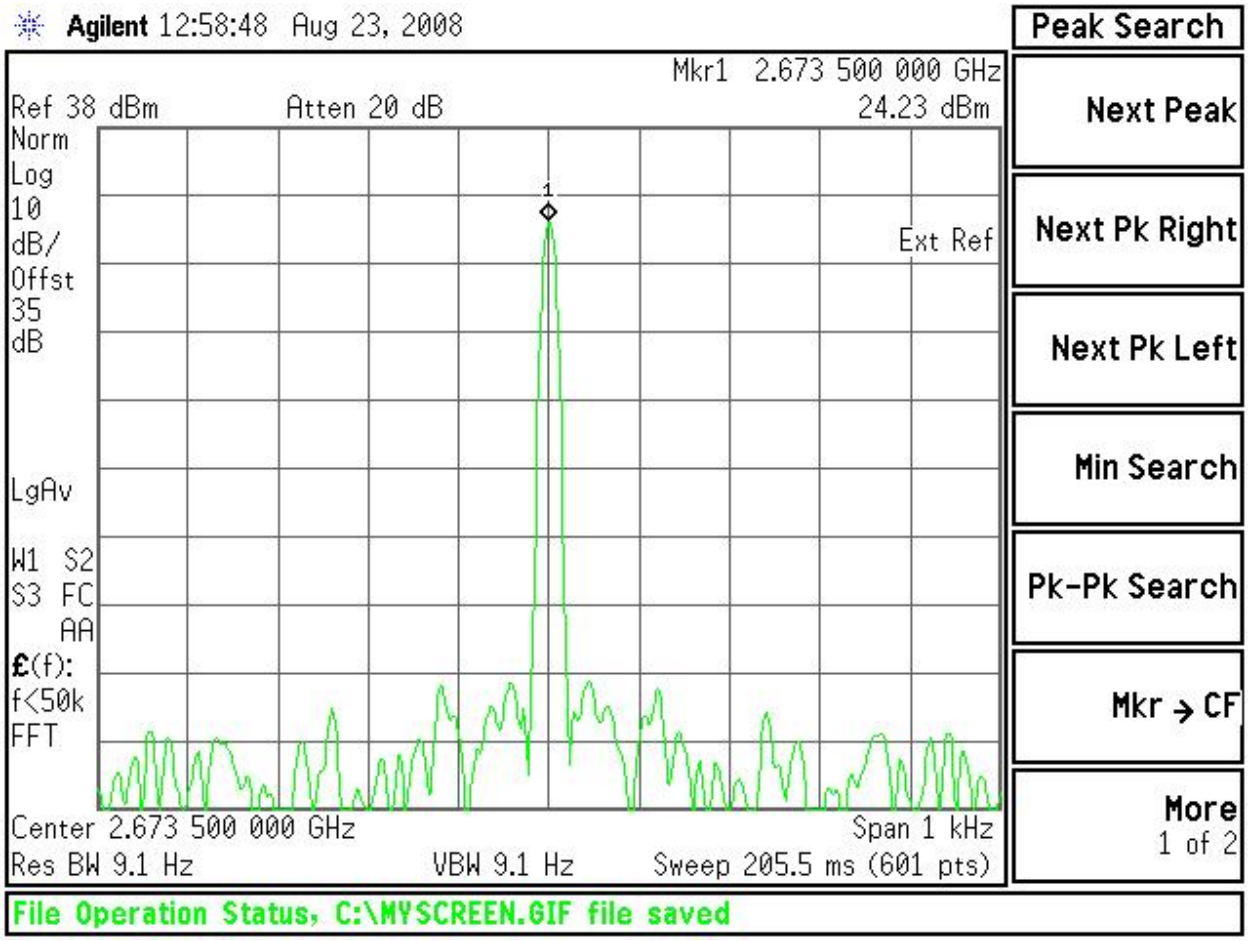
### 6.7.7 Test Result 7 (Up Link / E-F Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Up Link |
| Operating Frequency : | 2640.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



## 6.7.8 Test Result 8 (Up Link / G-H Block)

| | |
|---|---|
| FCC Rules : | Part 2 §2.1055 & §90.231 |
| Path : | Up Link |
| Operating Frequency : | 2673.5 MHz |
| Modulation : | Non-Modulation |
| Reference Voltage : | 220.0 Vac |



# 7. TEST EQUIPMENTS LIST

| EQUIPMENT | | MODEL | MANUFACTURE | SERIAL NUMBER | Calibration Due date |
|---|---|---|---|---|---|
| 1 | Receiver | ESVS30 | Rohde & Schwarz | 832854/010 | 06/22/09 |
| 2 | Spectrum analyzer | FSP7 | Rohde & Schwarz | 100001 | 02/22/09 |
| 3 | Signal Generator | E4432B | Agilent | US40053157 | 07/15/09 |
| 4 | Signal Generator | E4438C | Agilent | MY45091894 | 06/22/09 |
| 5 | Signal Generator | GT9000 | Gigatronics | 9604010 | 02/22/09 |
| 6 | Signal Generator | 2022D | Marconi Instrument | 119157/001 | 11/14/2008 |
| 7 | Signal Generator | 2030D | Marconi Instrument | 119330/022 | 11/16/2008 |
| 8 | Modulation Analyzer | 8901B | Agilent | 3028A03124 | 02/22/09 |
| 9 | Audio Analyzer | 8903B | Agilent | 3011A09344 | 02/22/09 |
| 10 | Digital Oscilloscope | TDS3032 | Tektronix | B019436 | 11/20/08 |
| 11 | Frequency Counter | R5372 | Advantest | 41855204 | 02/22/09 |
| 12 | Shield Room (7m x 4m x 3m) | N/A | SJEMC | 0004 | N/A |
| 13 | Turn Table | OSC-30 | N/A | BWS-01 | N/A |
| 14 | Antenna Mast | JAC-3 | Dail EMC | N/A | N/A |
| 15 | Temperature & Humidity chanber | EN-GLMP-54 | Enex | N/A | 03/21/09 |
| 16 | Bilog Antenna | VULB9160 | Schwarzbeck | VULB9160-3122 | 12/29/08 |
| 17 | Bilog Antenna | VULB9161 | Schwarzbeck | VULB9161-4067 | 12/23/08 |
| 18 | Bilog Antenna | VULB9161 | Schwarzbeck | VULB9161-4068 | 12/23/08 |
| 19 | Horn Antenna | BBHA 9120 D | Schwarzbeck | BBHA 9120 D 234 | 03/15/09 |
| 20 | Horn Antenna | BBHA 9170 | Schwarzbeck | BBHA9170157 | 02/13/09 |
| 21 | Power Meter | E4418A | Agilent | GB38272621 | 11/14/08 |
| 22 | Power Sensor | E9301B | Agilent | US40010238 | 11/14/08 |
| 23 | Power supply | IPS-30B03DD | Interact | 42052 | 03/20/09 |
| 24 | Directional Coupler | 778D | Agilent | 1144A08477 | 11/14/08 |
| 25 | Power Divider/Combiner | 11636A | Agilent | 05774 | 11/14/08 |
| 26 | Power Divider/Combiner | 11636A | Agilent | 05870 | 11/14/08 |