



Nemko Italy S.p.A.  
Via del Carroccio 4, 20046, Biassono, Italy.

Report number:**156523-6TRFWL**

Specification: FCC 24 Subpart E

## **PART 2**



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Appendix B: Block diagrams

Report Number: 156523-6TRFWL

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## Clause 24.238(a) Spurious emissions at antenna terminal

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

Frequency, MHz	Attenuation below carrier, dBc	ERP of spurious, dBm
30–10 <sup>th</sup> harmonic	$43 + 10 \log(P)$	-13

(b) *Measurement procedure.* Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth ( *i.e.* 1 MHz or 1 percent of emission bandwidth, as specified).

Test date: 2010-09-23

Test results: Pass

### Special notes

- The spectrum was searched from 30 MHz up to 10<sup>th</sup> harmonic
- Only the worst data presented in the test report.



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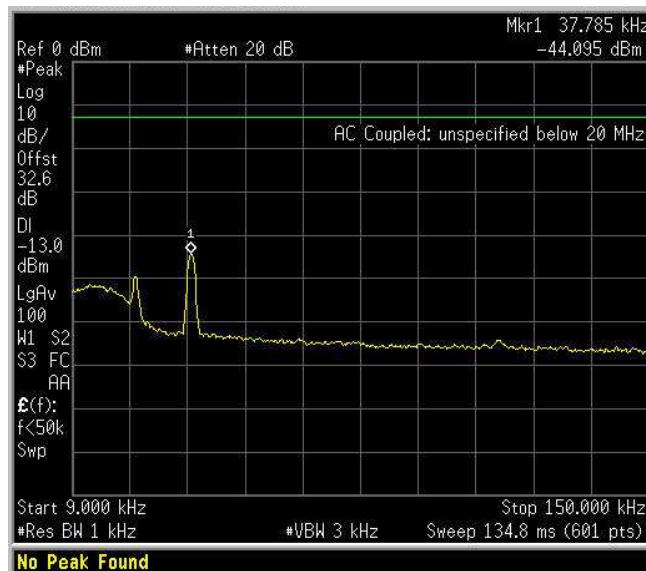
Appendix B: Block diagrams

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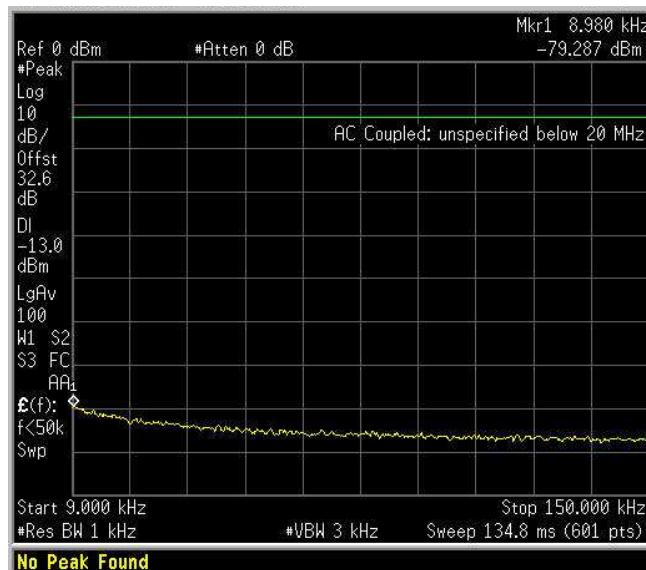
Specification: FCC 24 Subpart E

Clause 24.238 Out of band spurious emissions at antenna terminal,

Downlink – 30 kHz TDMA  
9 kHz – 150 kHz



Uplink – 30 kHz TDMA  
9 kHz – 150 kHz





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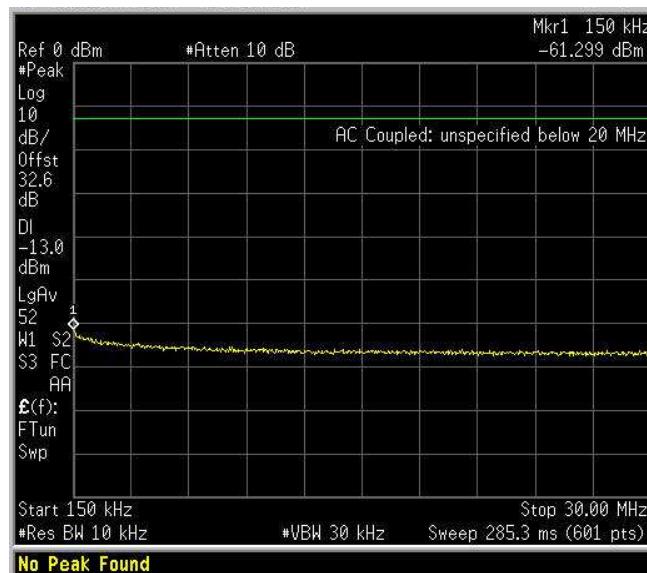
Specification: FCC 24 Subpart E

### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 30 kHz TDMA

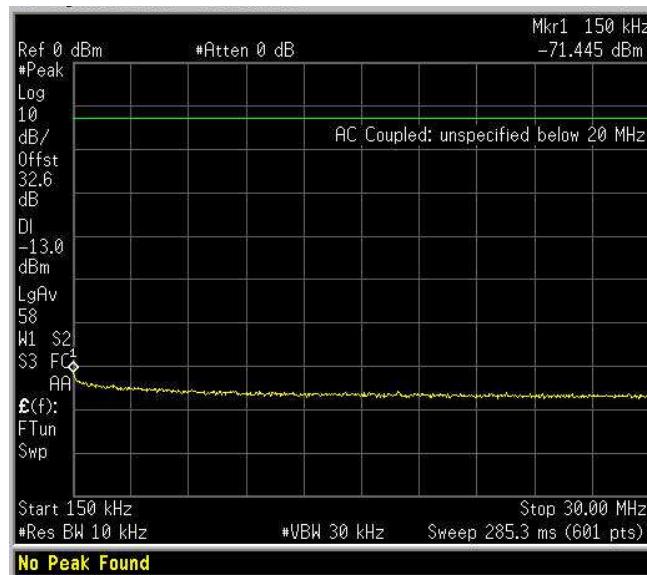
150 kHz – 30MHz



#### Spurious Emissions at Antenna Terminals

Uplink – 30 kHz TDMA

150 kHz – 30MHz





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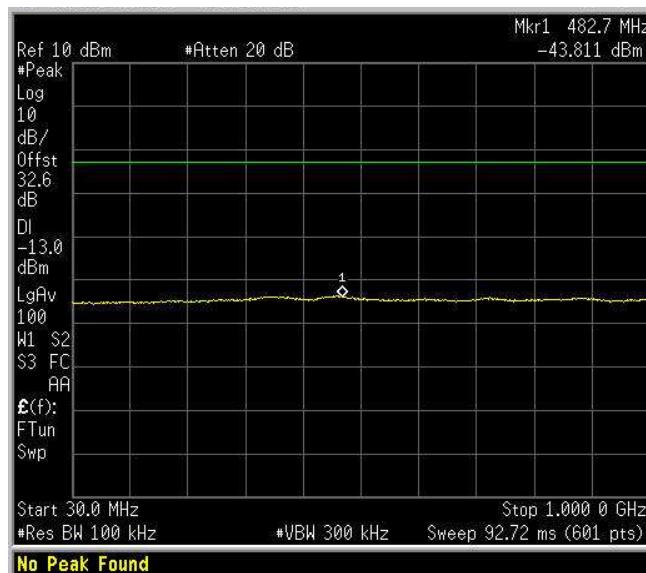
Specification: FCC 24 Subpart E

### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 30 kHz TDMA

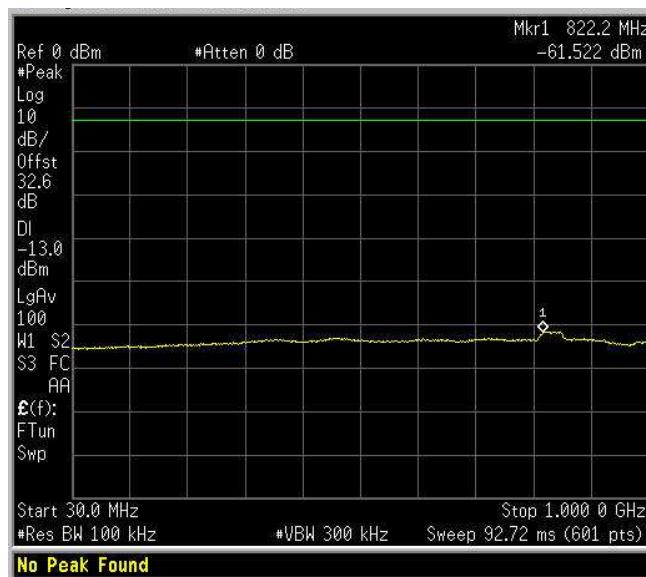
30MHz – 1 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 30 kHz TDMA

30MHz – 1 GHz





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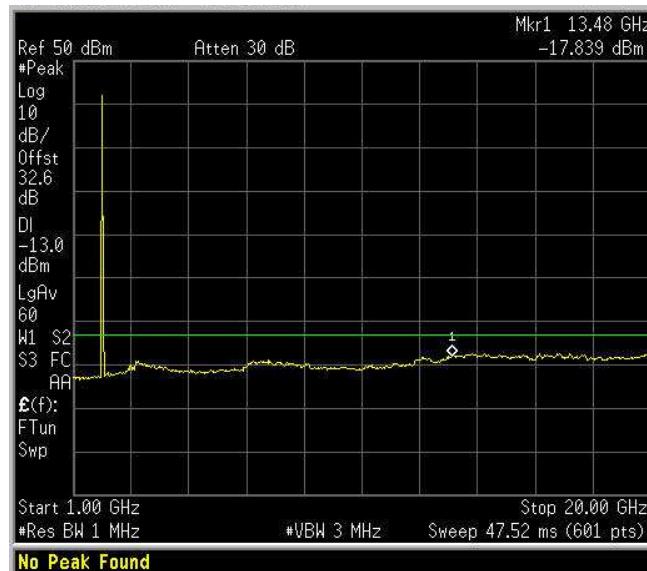
Specification: FCC 24 Subpart E

### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 30 kHz TDMA

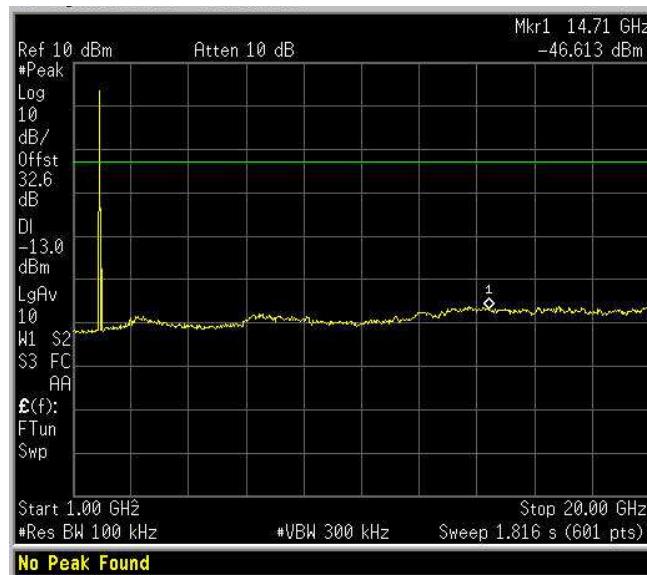
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 30 kHz TDMA

1-20 GHz





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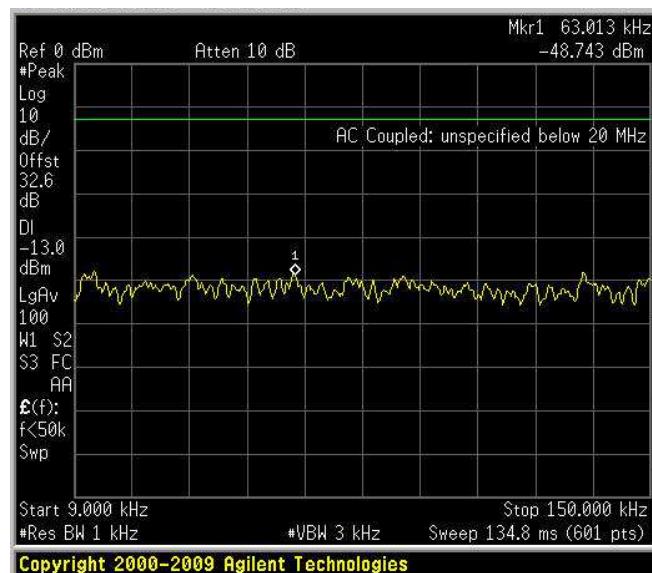
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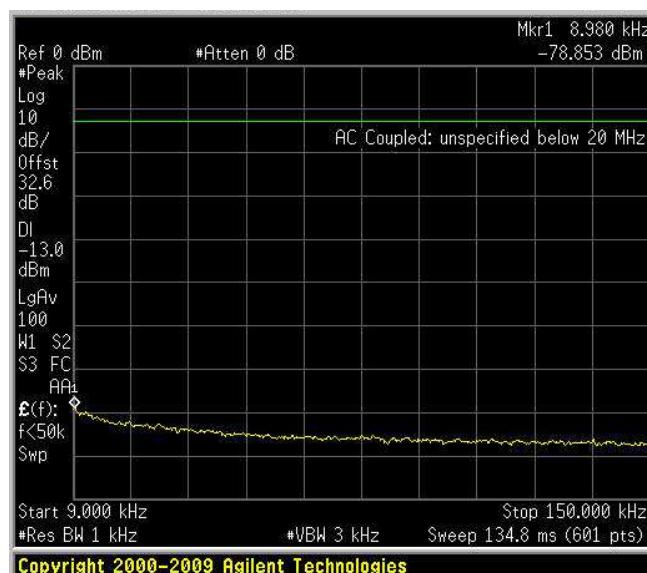
Specification: FCC 24 Subpart E

Clause 24.238 Out of band spurious emissions at antenna terminal,

Downlink – 1,4 QAM  
9 kHz – 150 kHz



Uplink – 1,4 QAM  
9 kHz – 150 kHz



Only 1,4 QAM 9kHz-150kHz spurious emission plots are included here, other modulations spurious emission plots are negligible and the same.



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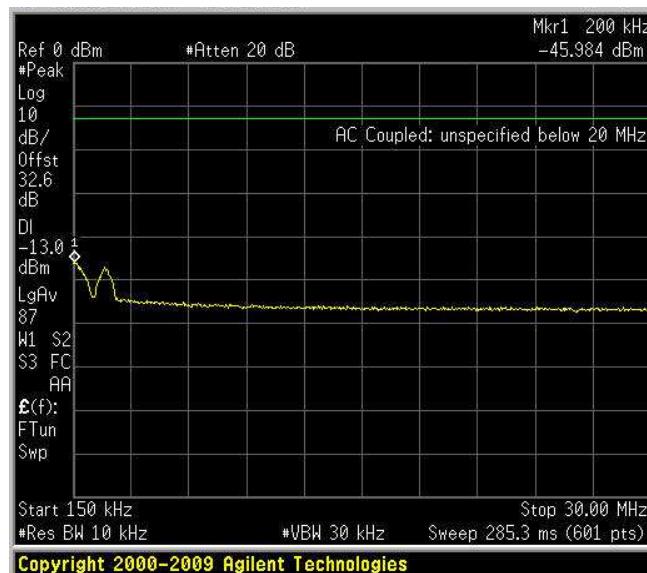
Specification: FCC 24 Subpart E

## Test data continued

### Spurious Emissions at Antenna Terminals

Downlink – 1,4 QAM

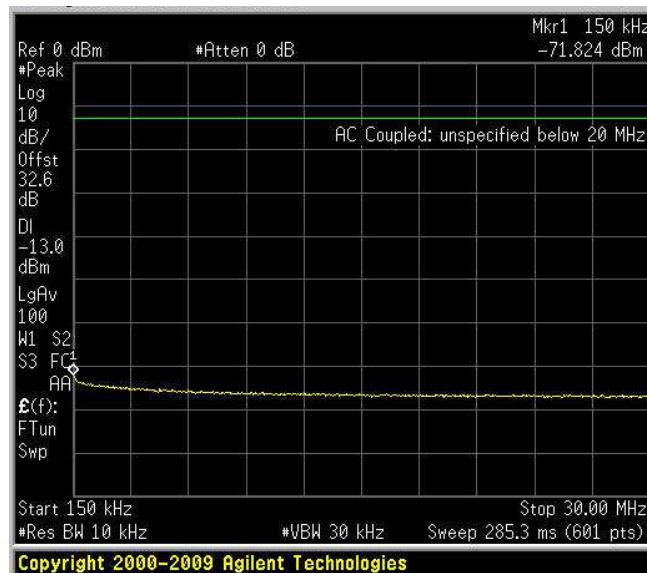
150 kHz – 30MHz



### Spurious Emissions at Antenna Terminals

Uplink – 1,4 QAM

150 kHz – 30MHz



Only 1,4 QAM 150kHz-30MHz spurious emission plots are included here, other modulations spurious emission plots are negligible and the same.



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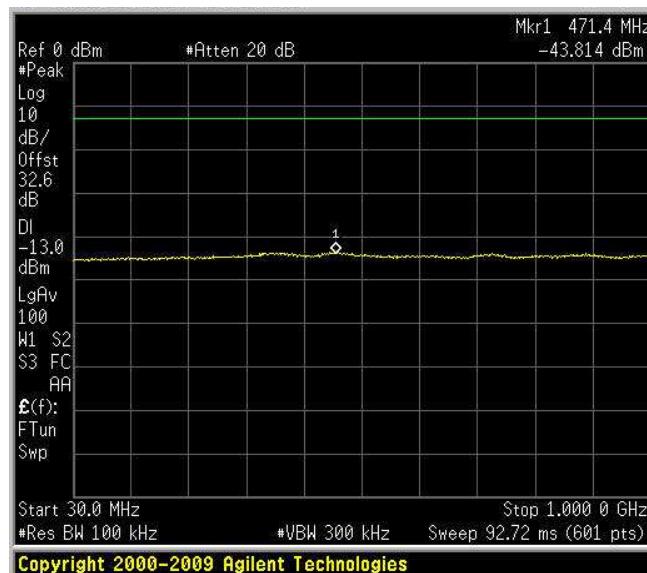
Specification: FCC 24 Subpart E

### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 1,4 QAM

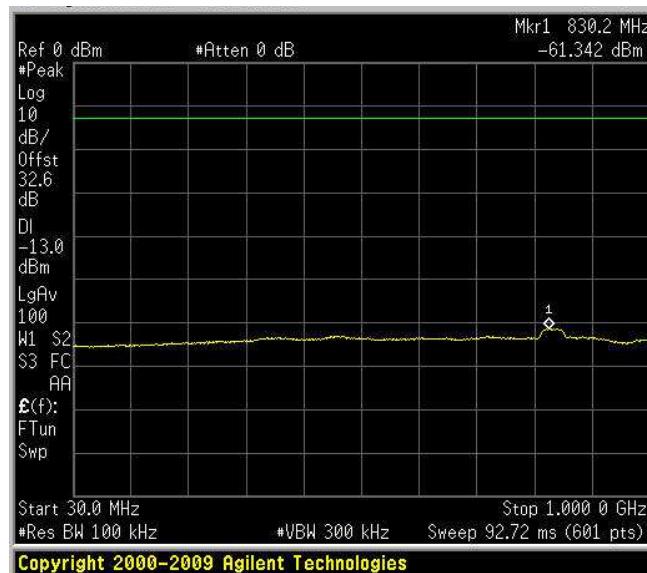
30MHz – 1 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 1,4 QAM

30MHz – 1 GHz



Only 1,4 QAM 30MHz – 1GHz spurious emission plots are included here, other modulations spurious emission plots are negligible and the same.



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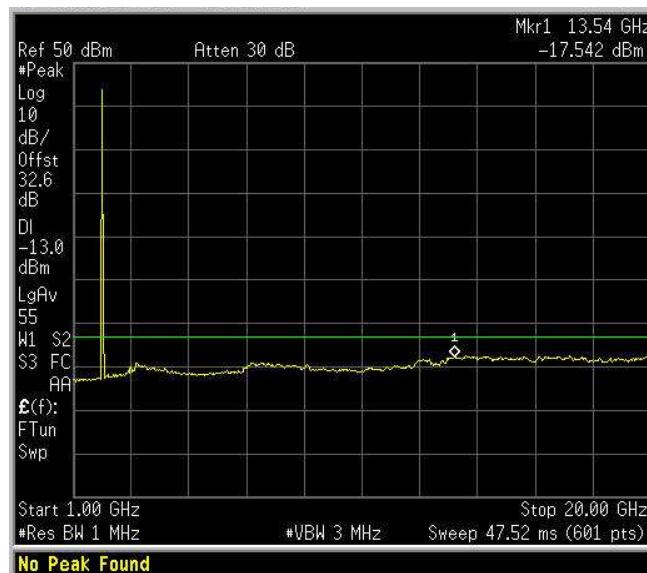
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 1,4 QAM

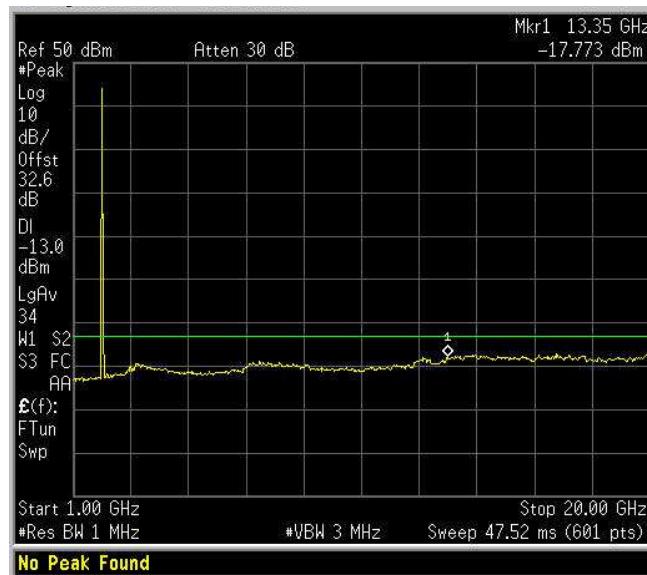
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Downlink – 1,4 QPSK

1-20 GHz





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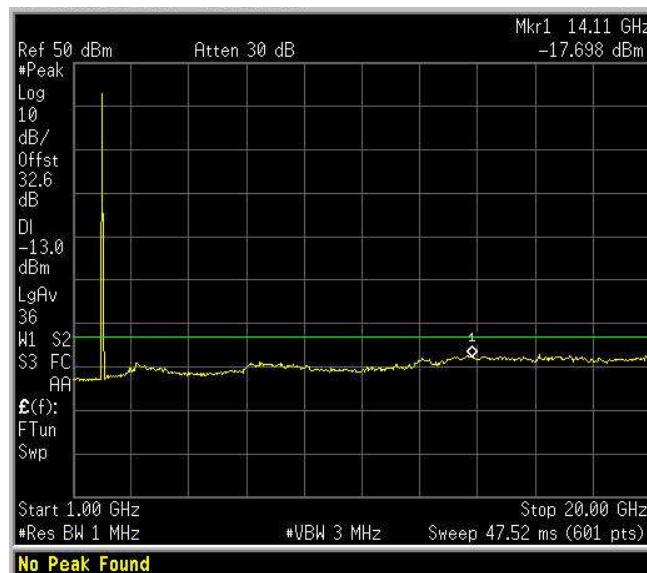
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 3 QAM

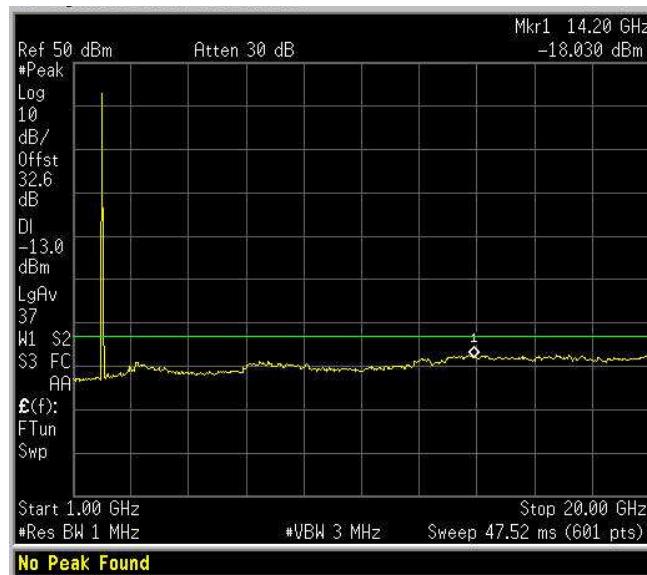
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Downlink – 3 QPSK

1-20 GHz





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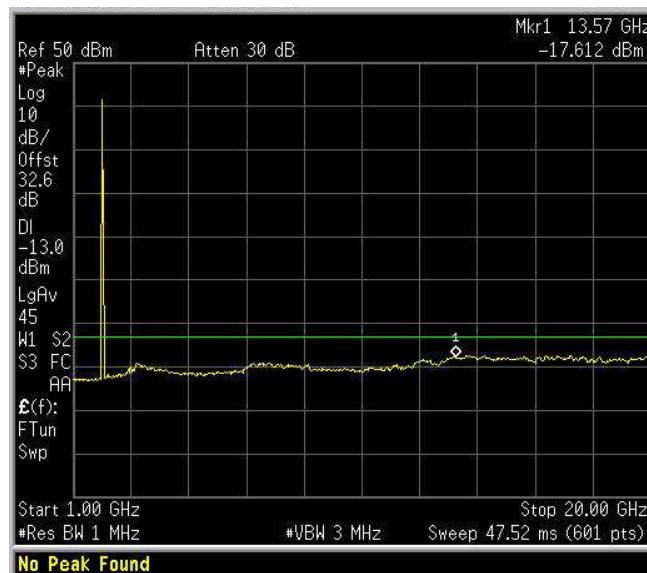
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 5 QAM

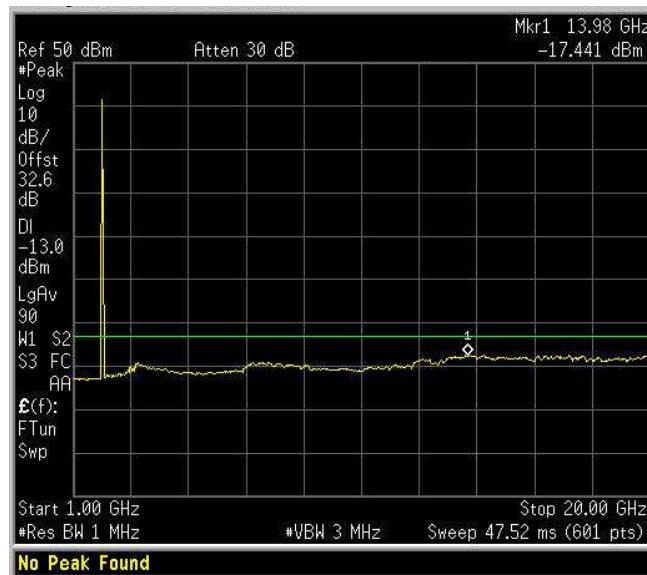
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Downlink – 5 QPSK

1-20 GHz





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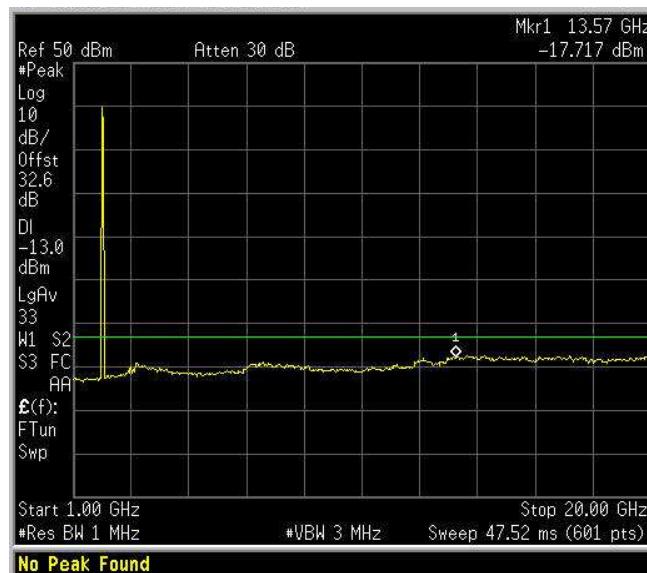
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## Test data continued

### Spurious Emissions at Antenna Terminals

Downlink – 10 QAM

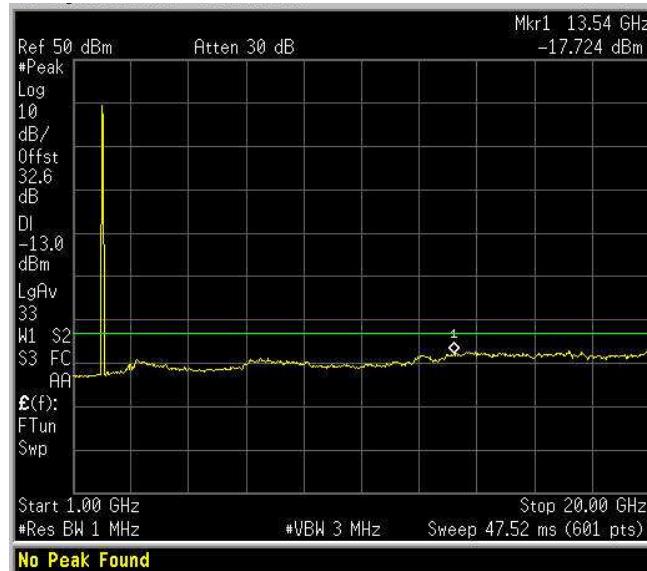
1-20 GHz



### Spurious Emissions at Antenna Terminals

Downlink – 10 QPSK

1-20 GHz





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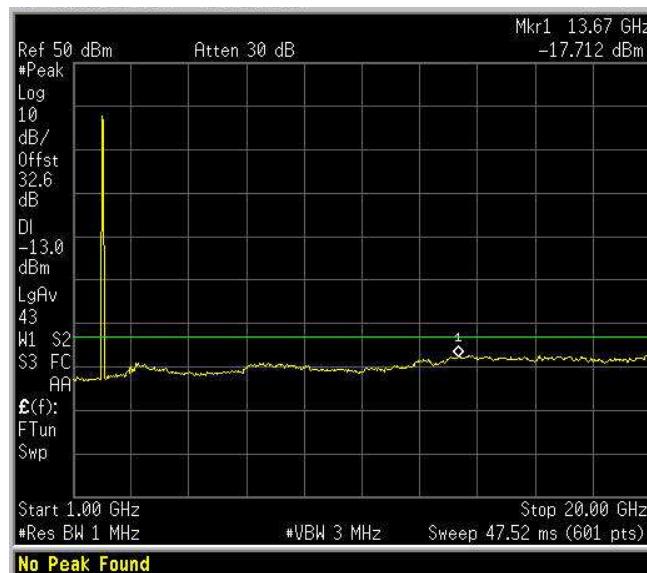
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 15 QAM

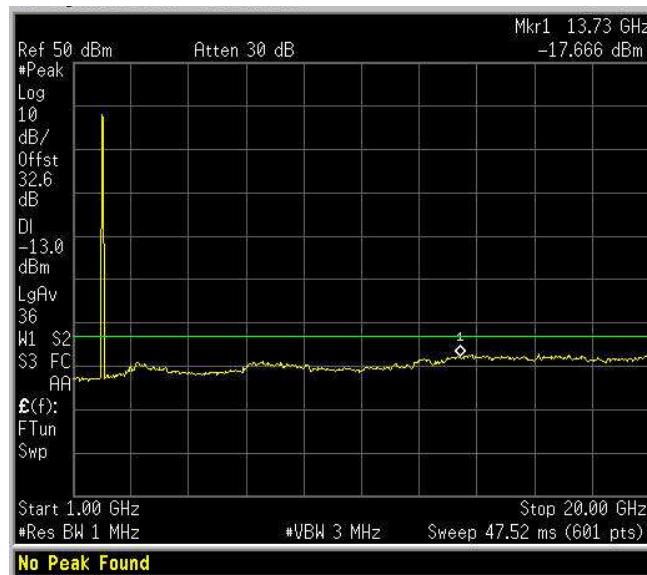
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Downlink – 15 QPSK

1-20 GHz





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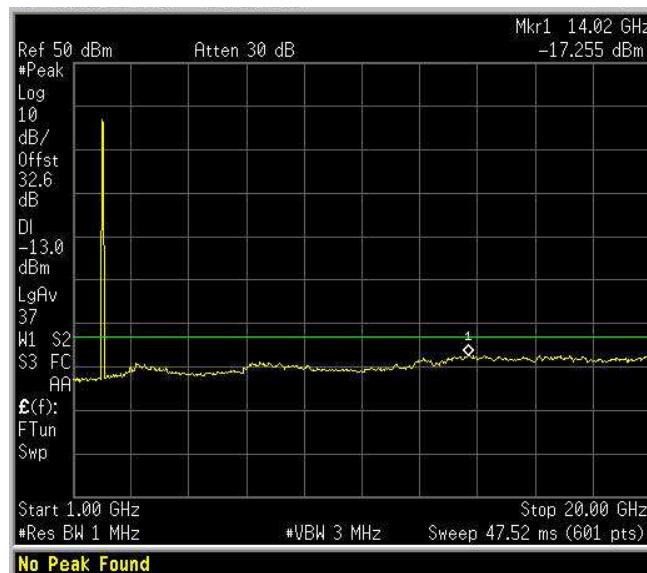
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Downlink – 20 QAM

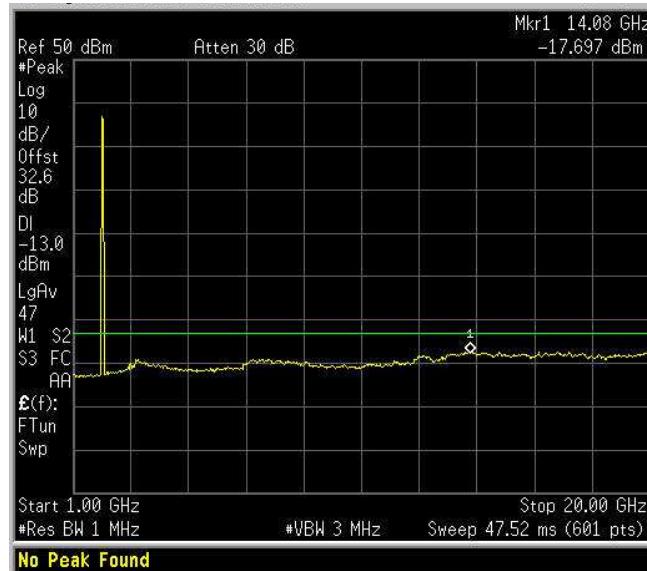
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Downlink – 20 QPSK

1-20 GHz





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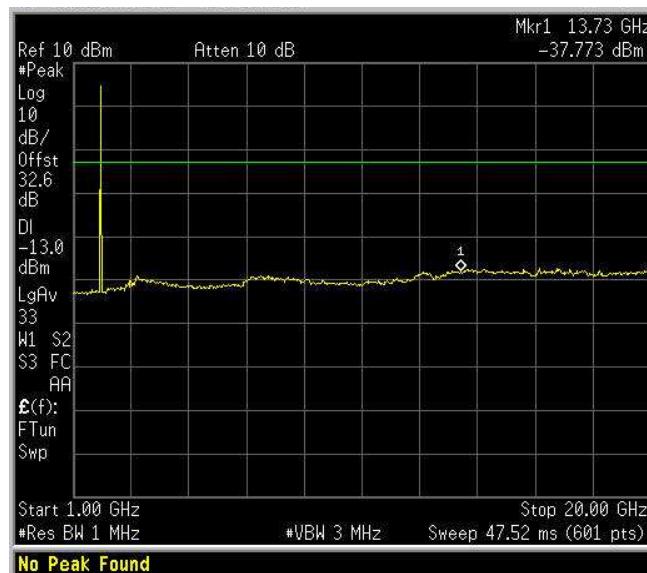
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Uplink – 1,4 QAM

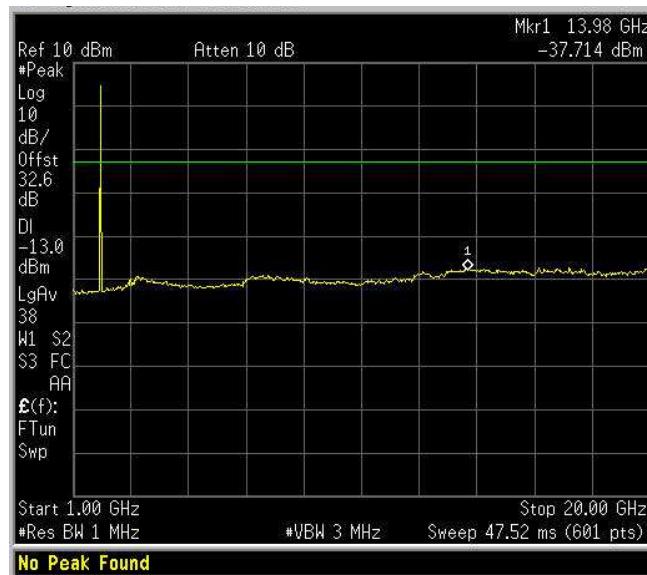
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 1,4 QPSK

1-20 GHz





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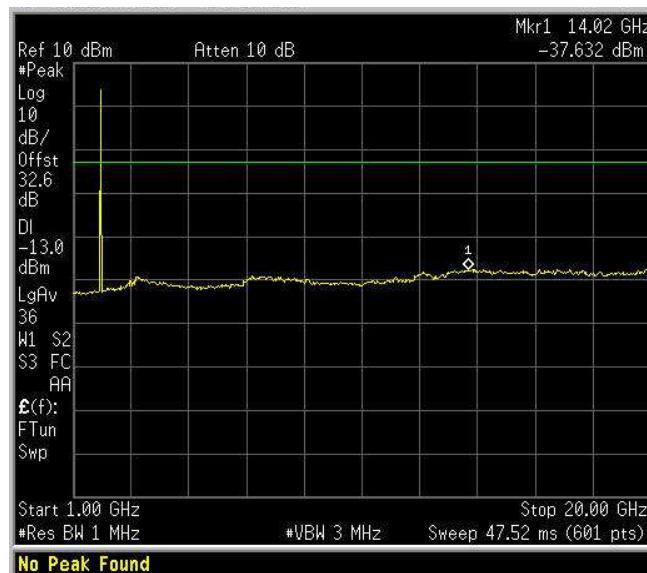
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Uplink – 3 QAM

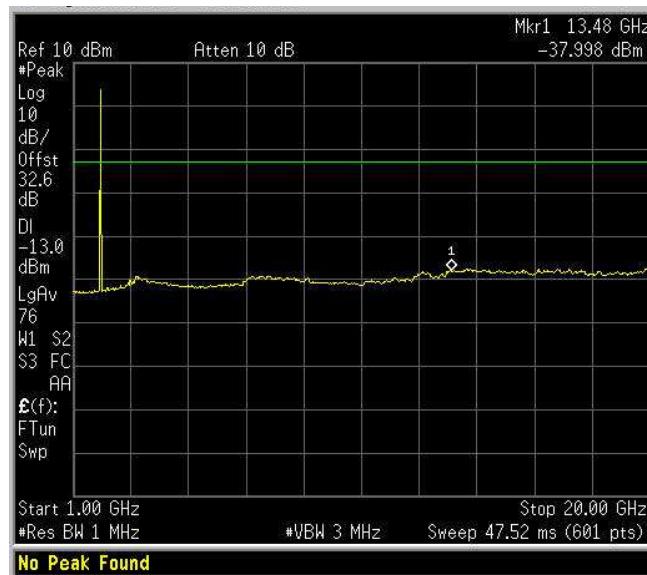
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 3 QPSK

1-20 GHz





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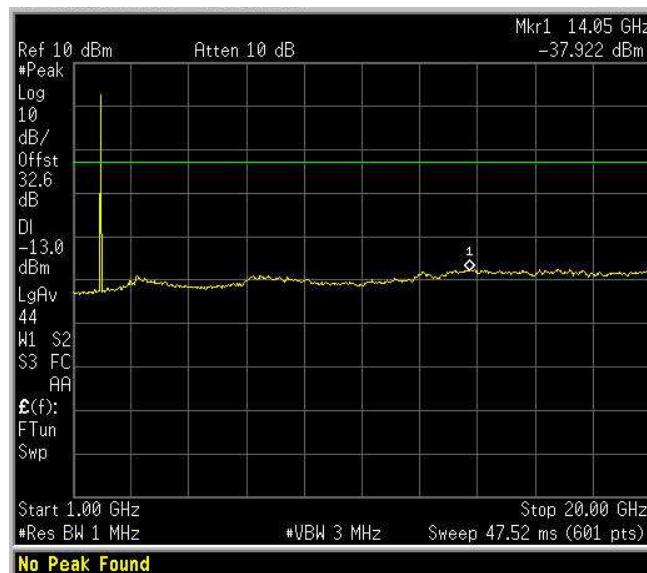
Specification: FCC 24 Subpart E

### Test data continued

#### Spurious Emissions at Antenna Terminals

Uplink – 5 QAM

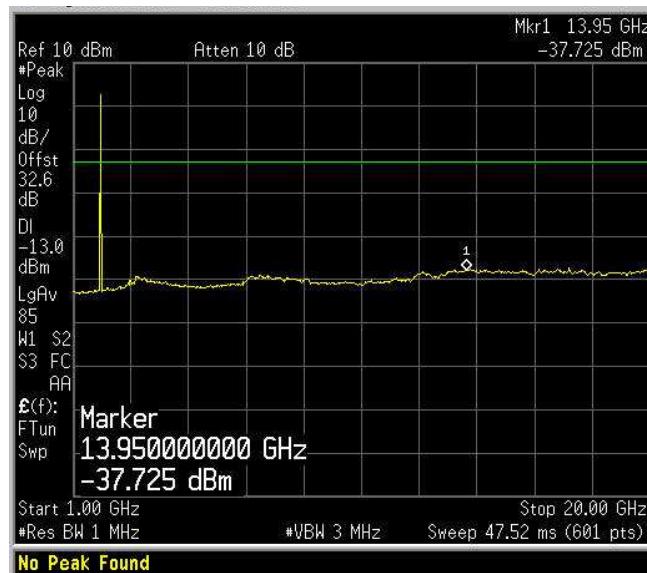
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 5 QPSK

1-20 GHz





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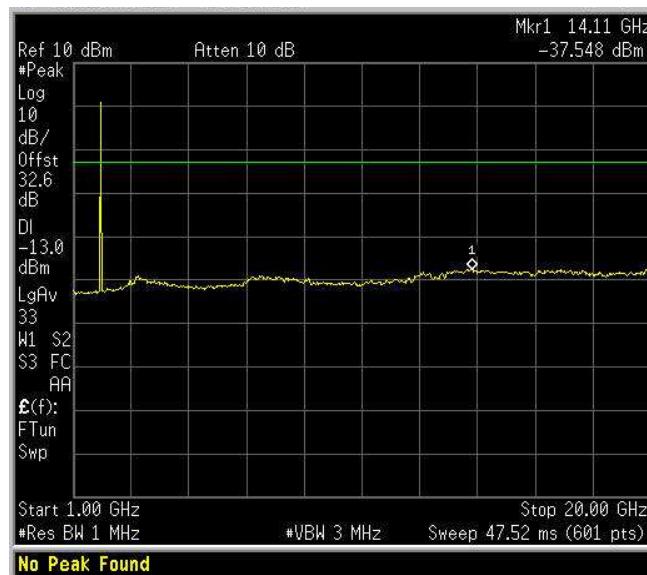
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Uplink – 10 QAM

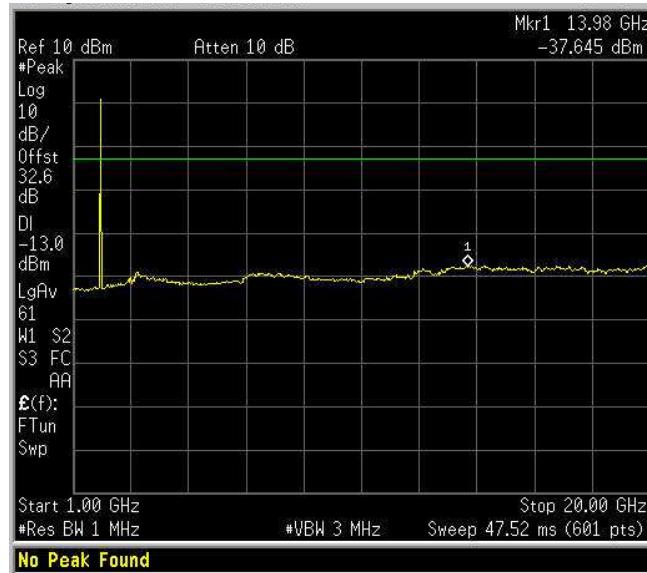
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 10 QPSK

1-20 GHz





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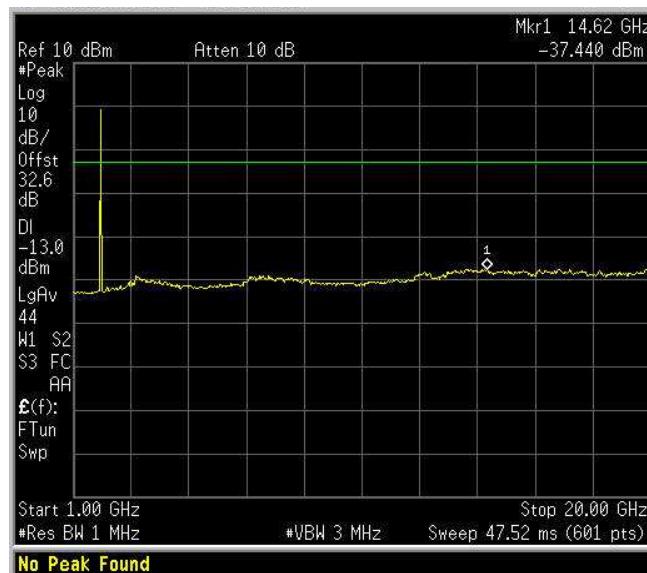
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### Test data continued

#### Spurious Emissions at Antenna Terminals

Uplink – 15 QAM

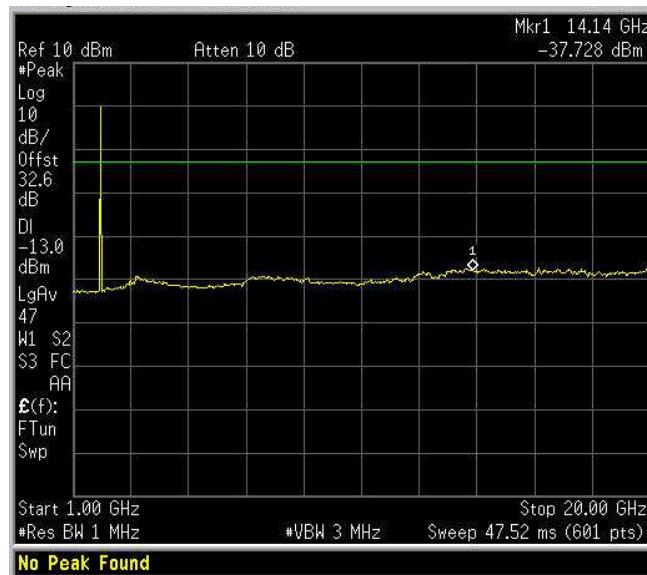
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 15 QPSK

1-20 GHz





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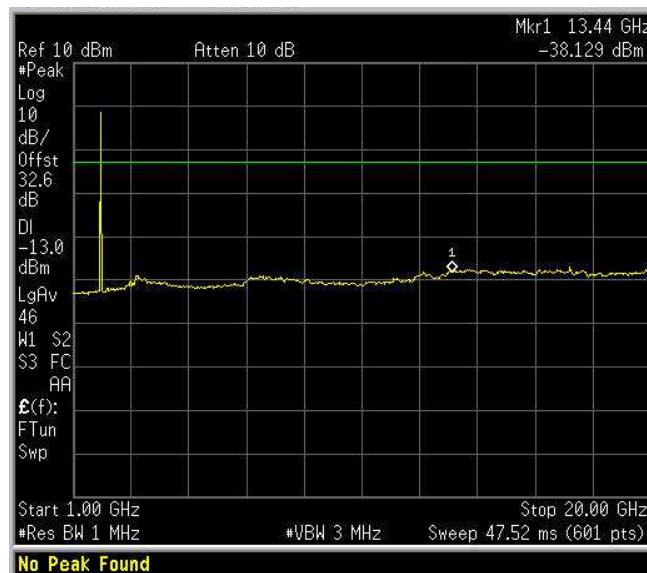
Specification: FCC 24 Subpart E

### Test data continued

#### Spurious Emissions at Antenna Terminals

Uplink – 20 QAM

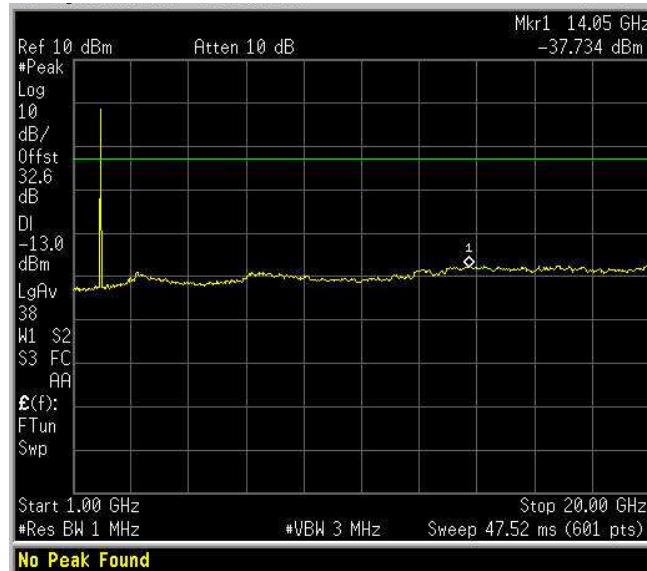
1-20 GHz



#### Spurious Emissions at Antenna Terminals

Uplink – 20 QPSK

1-20 GHz





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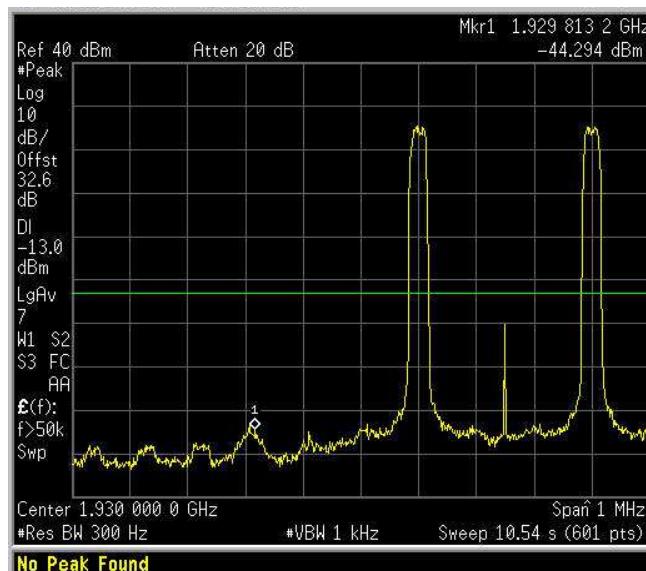
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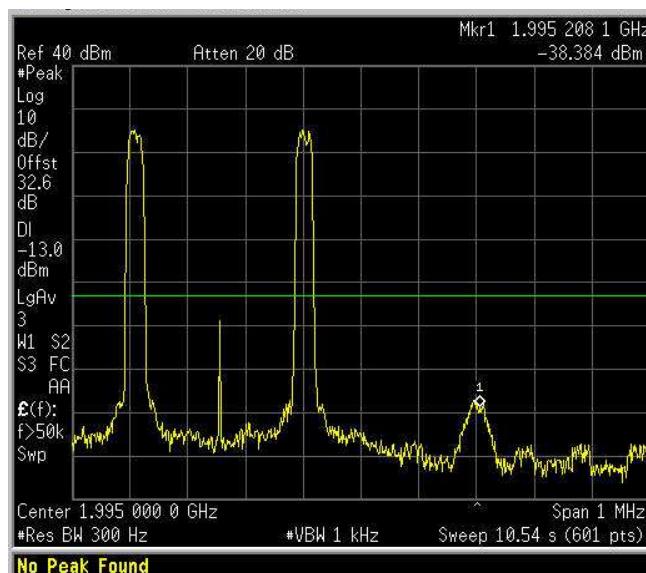
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### Test data, continued band edges Inter modulation

#### Downlink – 30 kHz TDMA LOW BAND EDGE



#### Downlink – 30 kHz TDMA HIGH BAND EDGE





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Appendix B: Block diagrams

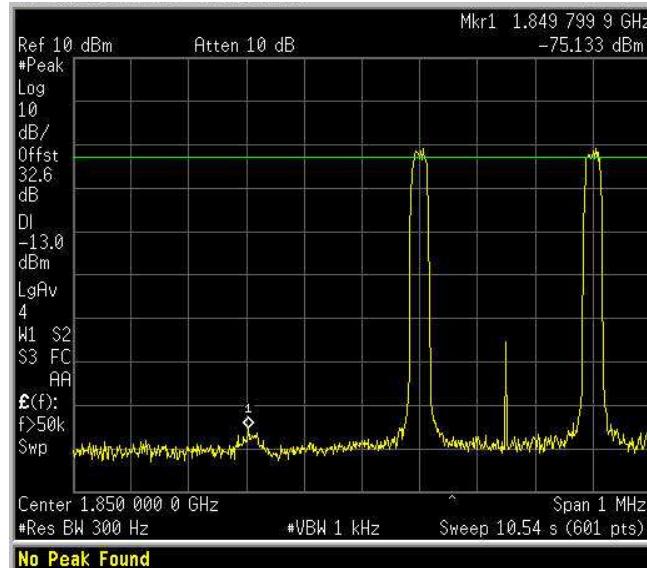
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Specification: FCC 24 Subpart E

### Test data, continued band edges:

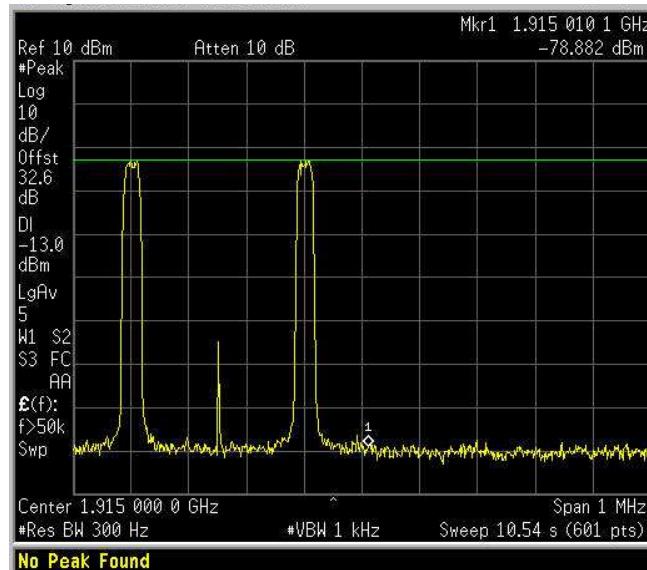
Uplink – 30 kHz TDMA

LOW BAND EDGE



Uplink – 30 kHz TDMA

HIGH BAND EDGE





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Appendix B: Block diagrams

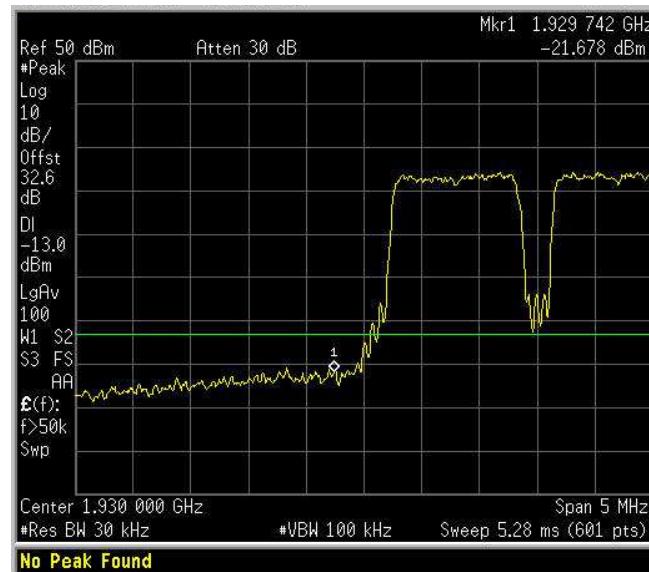
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Specification: FCC 24 Subpart E

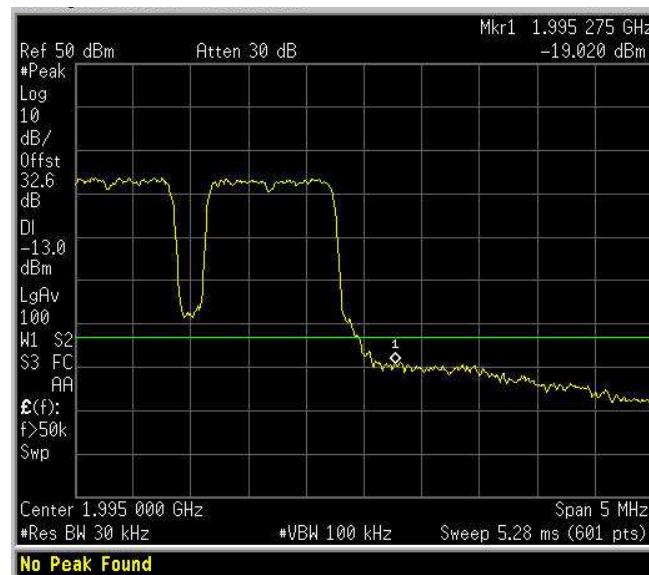
### Test data, continued band edges Inter modulation

Downlink – 1.4 QAM

LOW BAND EDGE



Downlink – 1.4 QAM  
HIGH BAND EDGE





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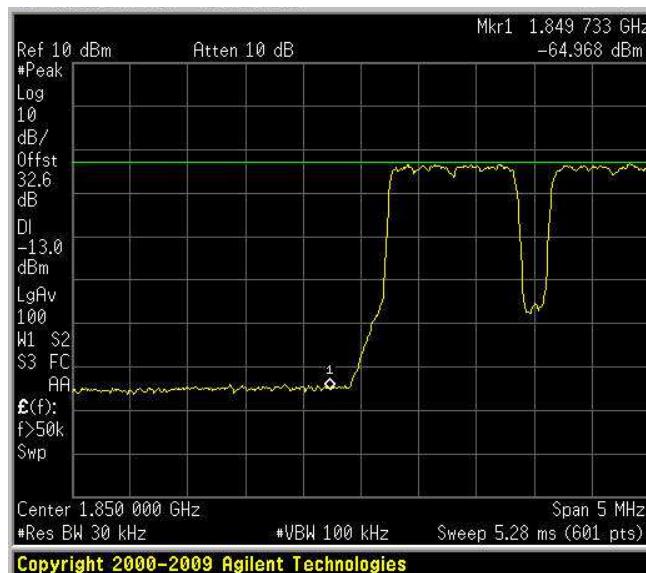
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### Test data, continued band edges:

Uplink – 1.4 QAM  
LOW BAND EDGE



Uplink – 1.4 QAM  
HIGH BAND EDGE





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Test data, continued band edges:

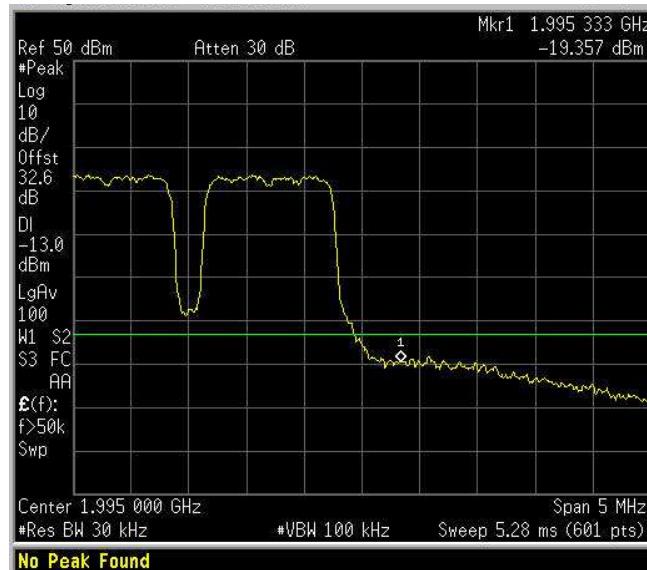
Downlink – 1.4 QPSK

LOW BAND EDGE



Downlink – 1.4 QPSK

HIGH BAND EDGE





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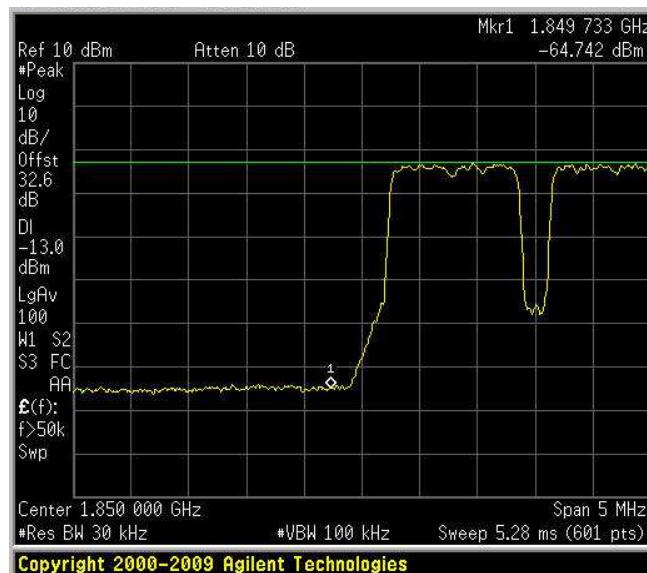
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Specification: FCC 24 Subpart E

Test data, continued band edges:

Uplink – 1.4 QPSK  
LOW BAND EDGE



Uplink – 1.4 QPSK  
HIGH BAND EDGE





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Via del Carroccio 4, 20046, Biassono, Italy.

Appendix B: Block diagrams

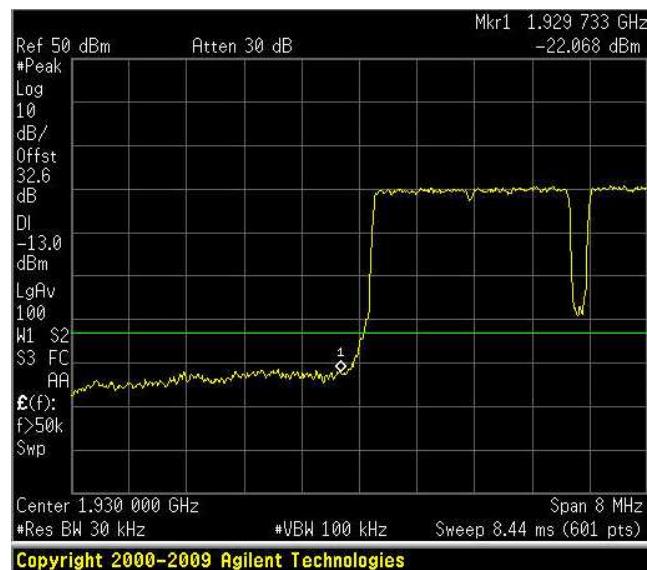
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Specification: FCC 24 Subpart E

### Test data, continued band edges:

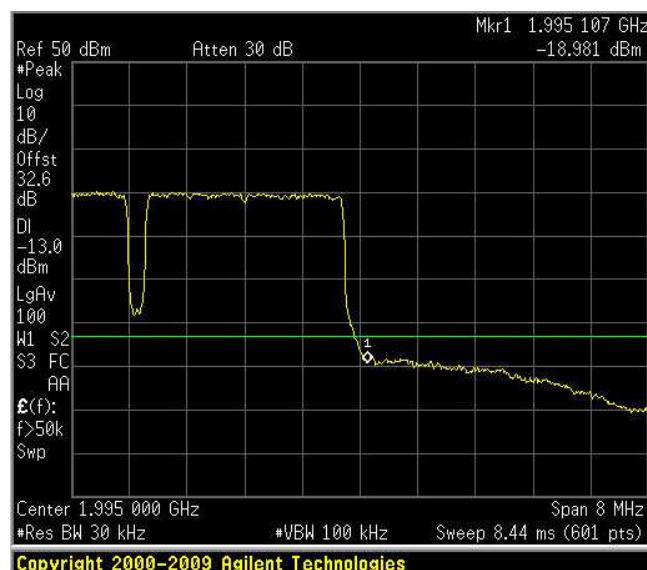
Downlink – 3 QAM

LOW BAND EDGE



Downlink – 3 QAM

HIGH BAND EDGE





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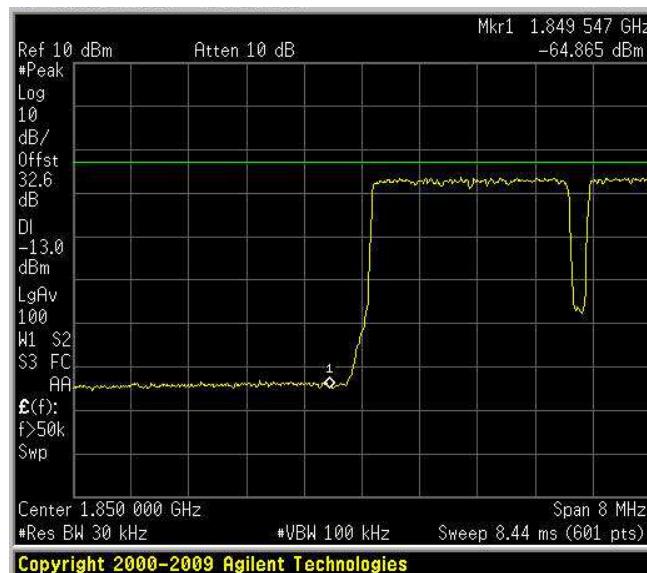
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### Test data, continued band edges:

Uplink – 3 QAM  
LOW BAND EDGE



Uplink – 3 QAM  
HIGH BAND EDGE





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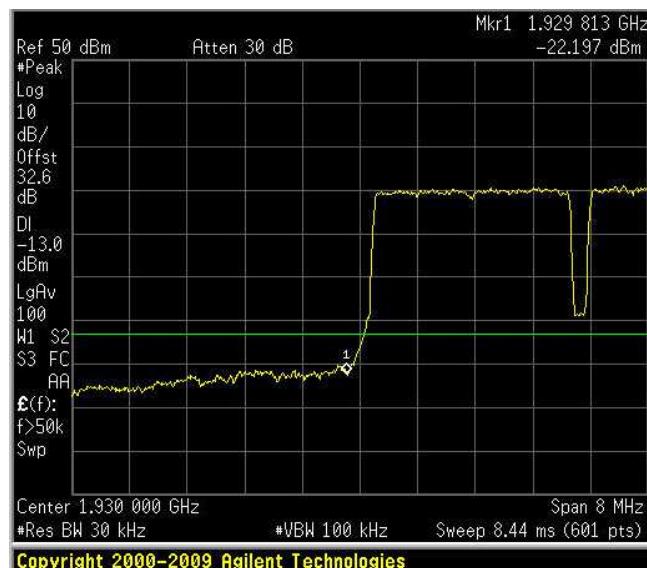
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Report Number: 156523-6TRFWL

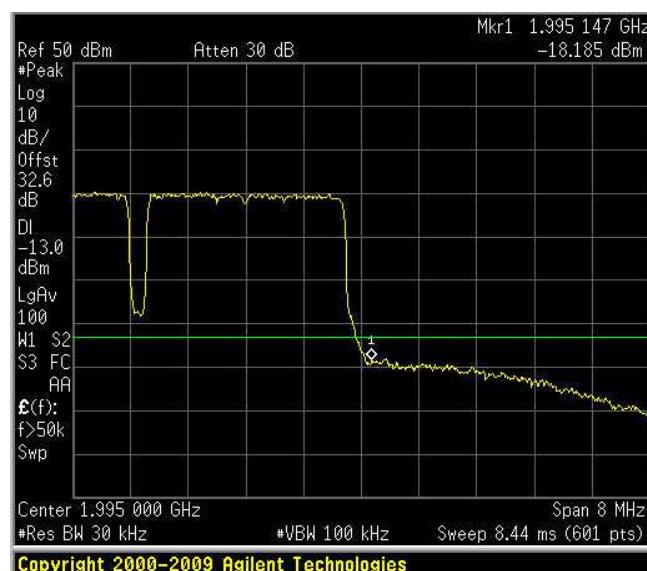
Specification: FCC 24 Subpart E

### Test data, continued band edges:

Downlink – 3 QPSK  
LOW BAND EDGE



Downlink – 3 QPSK  
HIGH BAND EDGE





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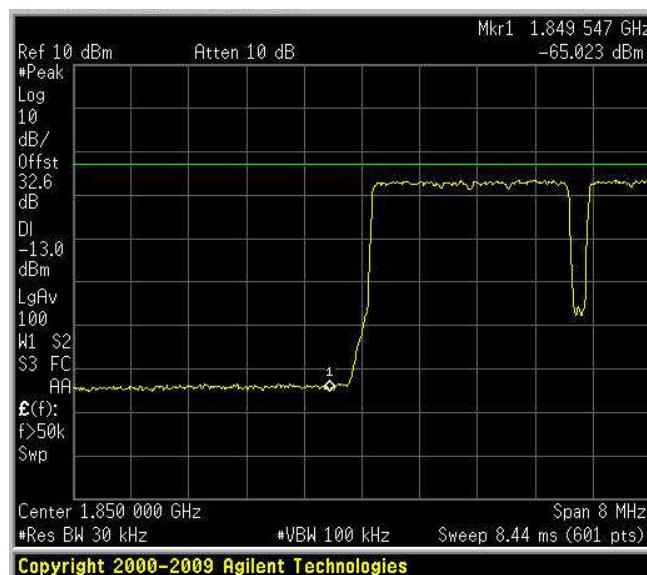
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

### Test data, continued band edges:

Uplink – 3 QPSK  
LOW BAND EDGE



Uplink – 3 QPSK  
HIGH BAND EDGE





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Appendix B: Block diagrams

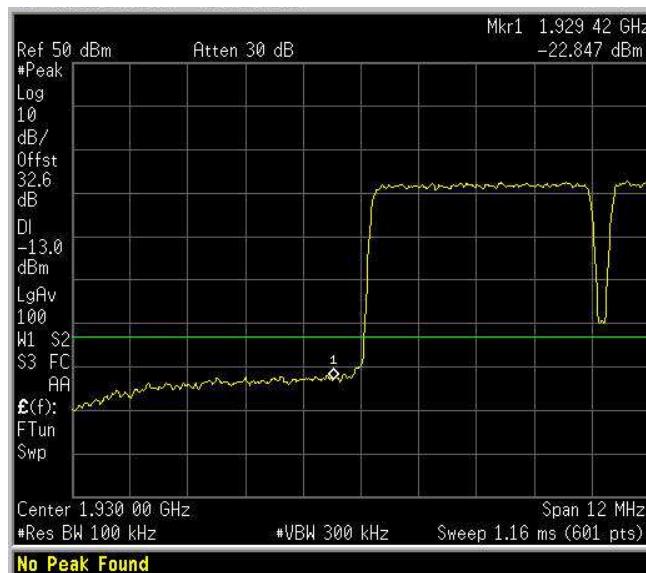
Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

Test data, continued band edges:

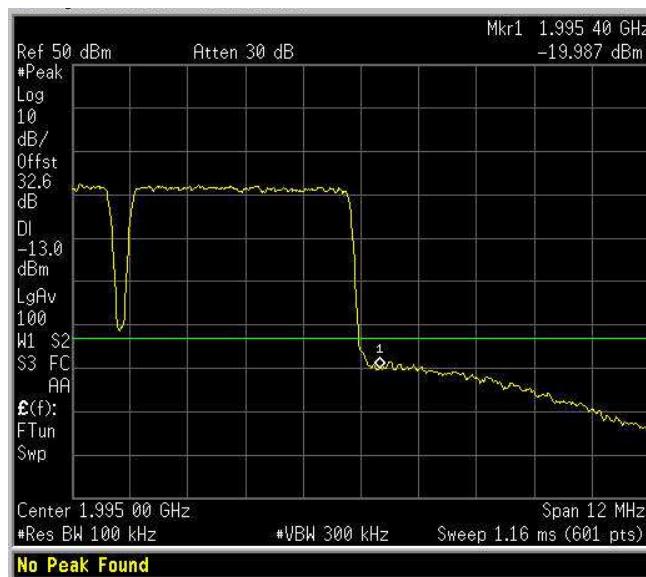
Downlink – 5 QAM

LOW BAND EDGE



Downlink – 5 QAM

HIGH BAND EDGE





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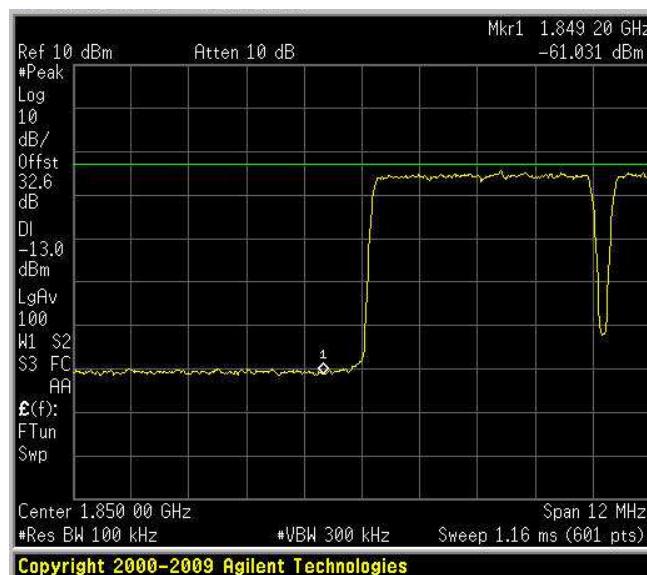
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

Test data, continued band edges:

Uplink – 5 QAM  
LOW BAND EDGE



Uplink – 5 QAM  
HIGH BAND EDGE





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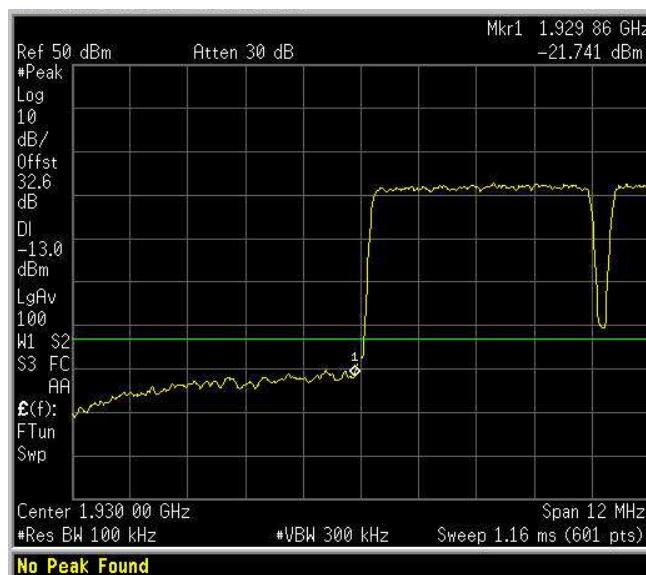
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

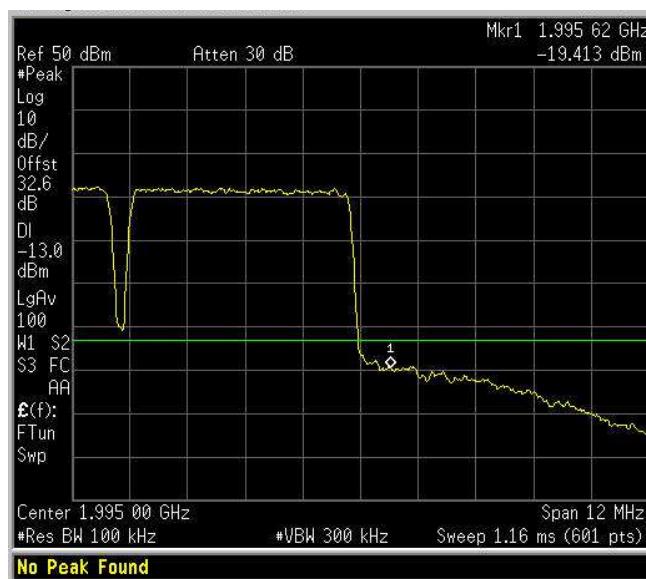
Specification: FCC 24 Subpart E

Test data, continued band edges:

Downlink – 5 QPSK  
LOW BAND EDGE



Downlink – 5 QPSK  
HIGH BAND EDGE





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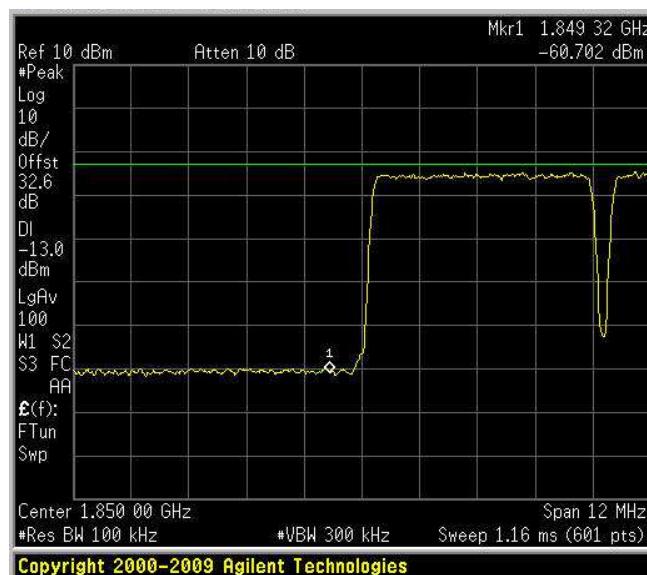
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

### Test data, continued band edges:

Uplink – 5 QPSK  
LOW BAND EDGE



Uplink – 5 QPSK  
HIGH BAND EDGE





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Appendix B: Block diagrams

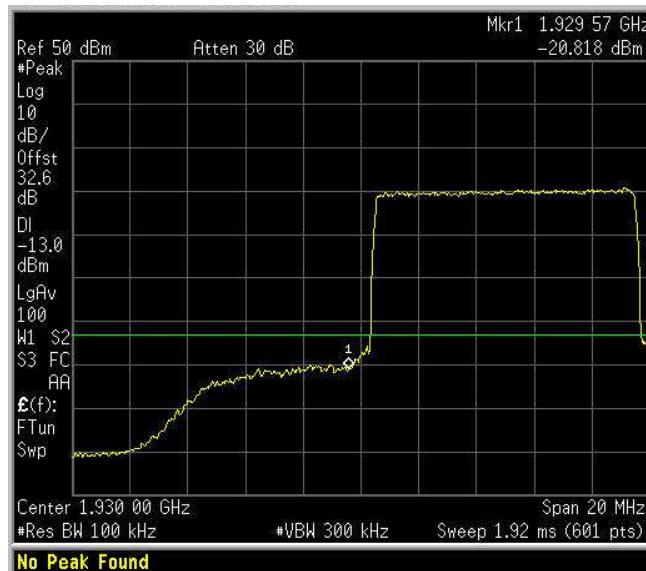
Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

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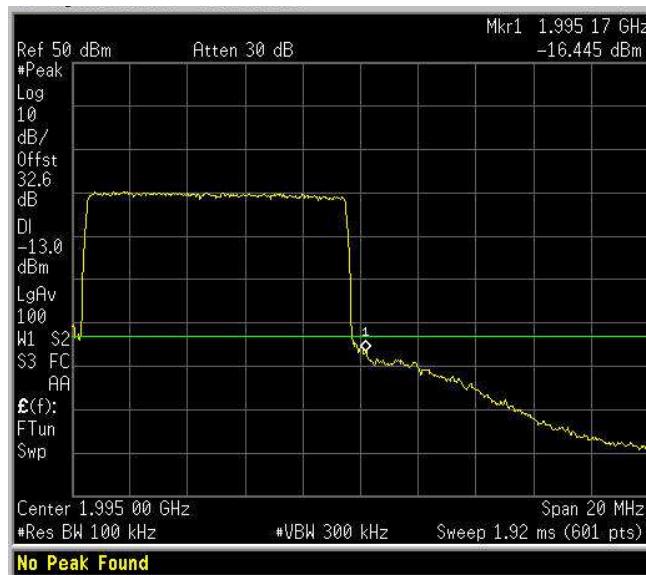
Downlink – 10 QAM

LOW BAND EDGE



Downlink – 10 QAM

HIGH BAND EDGE





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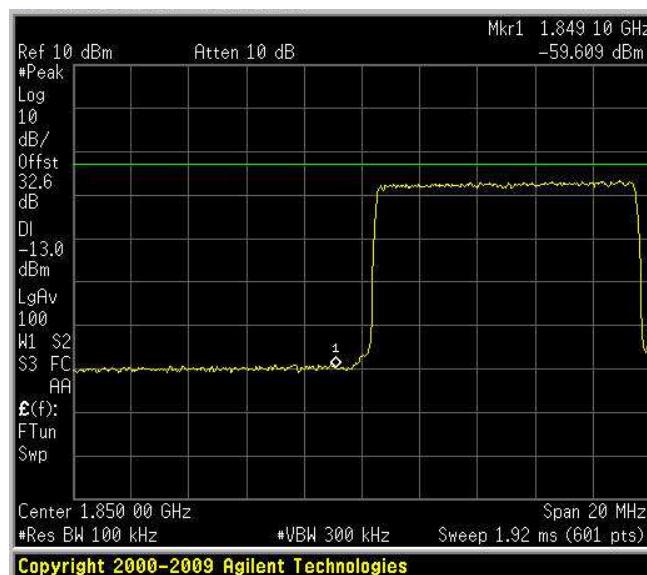
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

### Test data, continued band edges:

Uplink – 10 QAM  
LOW BAND EDGE



Uplink – 10 QAM  
HIGH BAND EDGE





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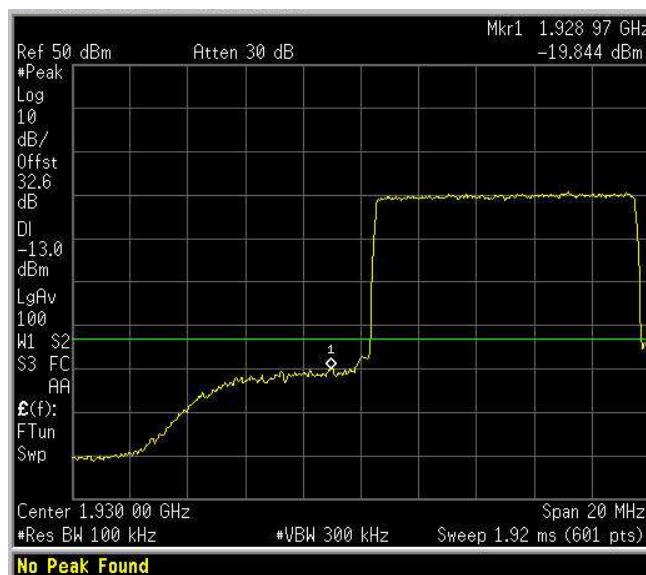
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

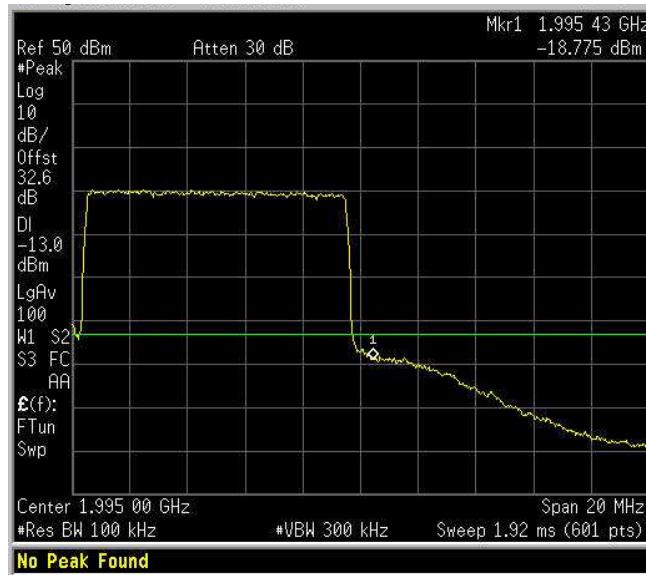
Specification: FCC 24 Subpart E

Test data, continued band edges:

Downlink – 10 QPSK  
LOW BAND EDGE



Downlink – 10 QPSK  
HIGH BAND EDGE





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Appendix B: Block diagrams

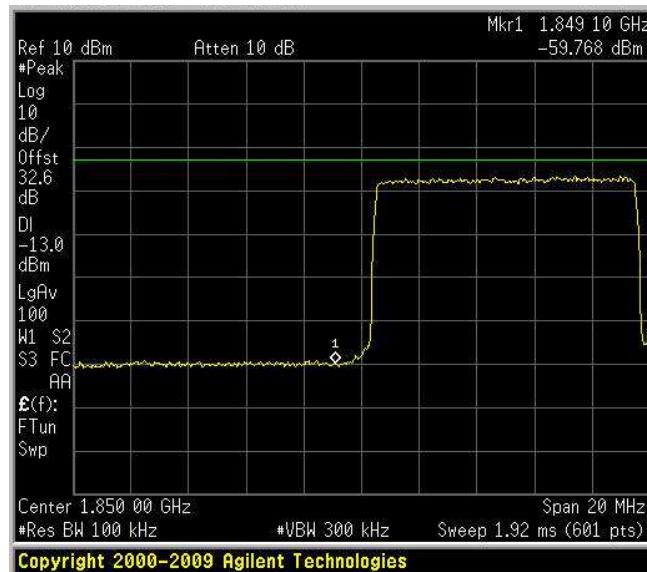
Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

### Test data, continued band edges:

Uplink – 10 QPSK

LOW BAND EDGE



Uplink – 10 QPSK

HIGH BAND EDGE





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Appendix B: Block diagrams

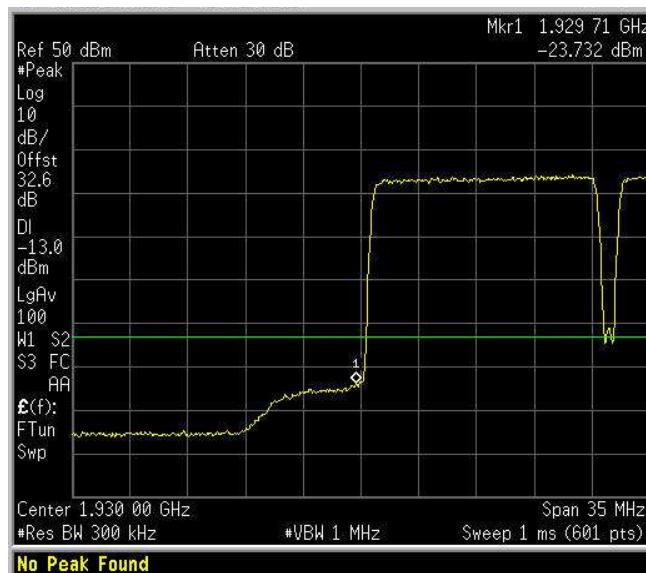
Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

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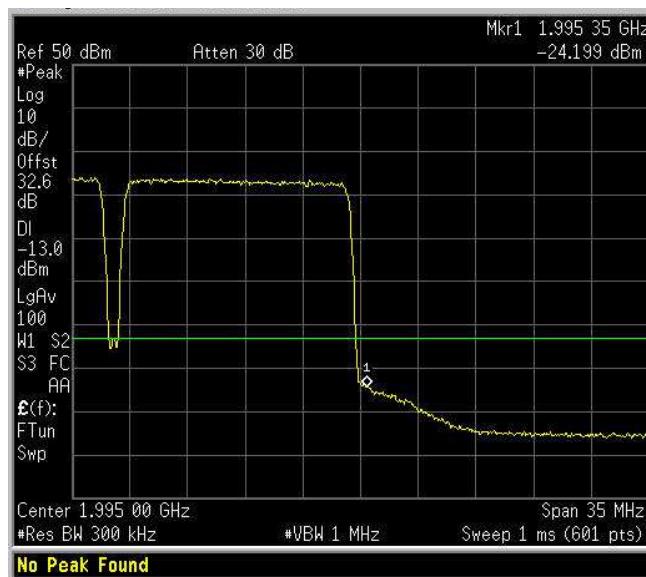
Downlink – 15 QAM

LOW BAND EDGE



Downlink – 15 QAM

HIGH BAND EDGE





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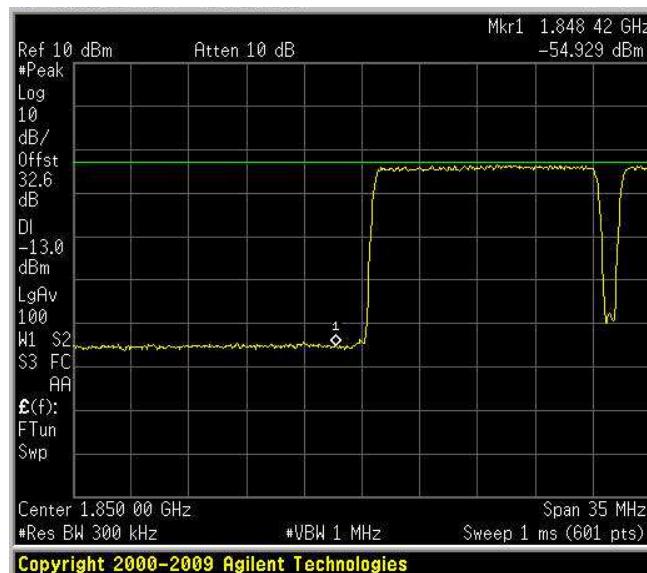
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

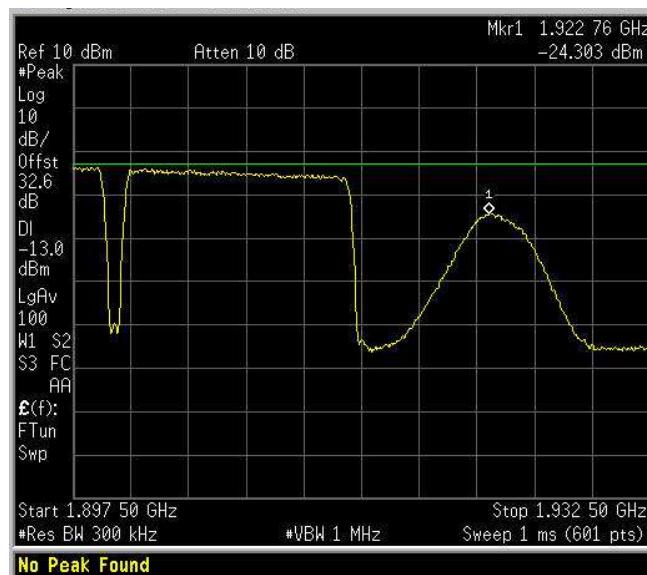
Specification: FCC 24 Subpart E

### Test data, continued band edges:

Uplink – 15 QAM  
LOW BAND EDGE



Uplink – 15 QAM  
HIGH BAND EDGE





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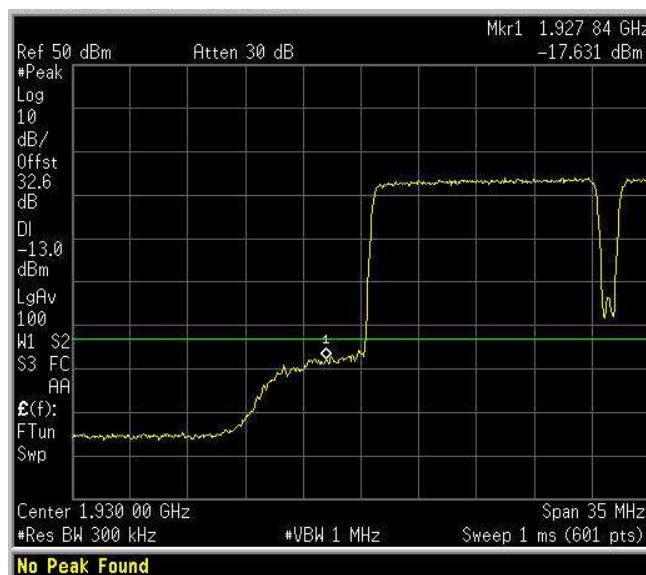
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

Test data, continued band edges:

Downlink – 15 QPSK  
LOW BAND EDGE



Downlink – 15 QPSK  
HIGH BAND EDGE





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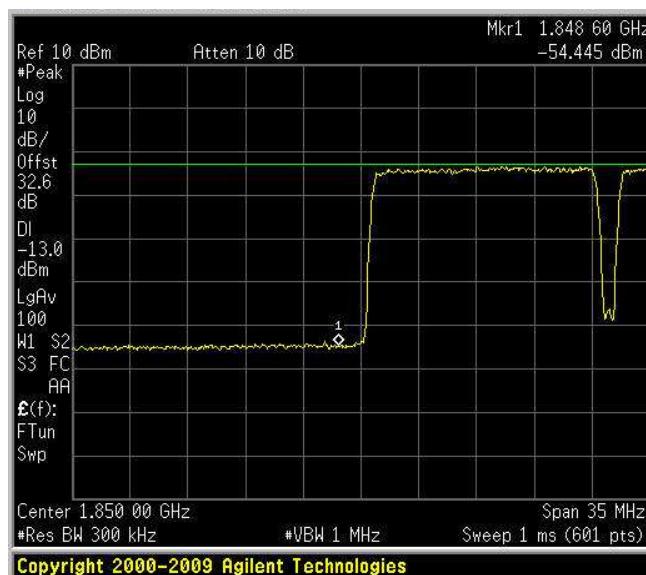
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

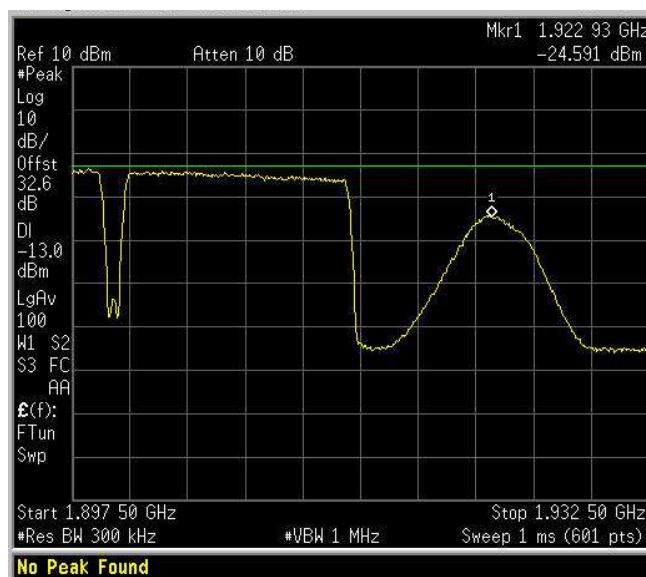
Specification: FCC 24 Subpart E

### Test data, continued band edges:

Uplink – 15 QPSK  
LOW BAND EDGE



Uplink – 15 QPSK  
HIGH BAND EDGE





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Appendix B: Block diagrams

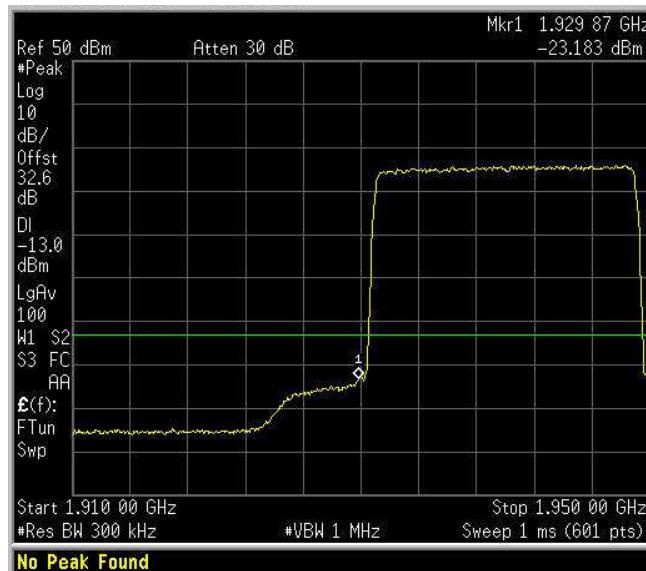
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Specification: FCC 24 Subpart E

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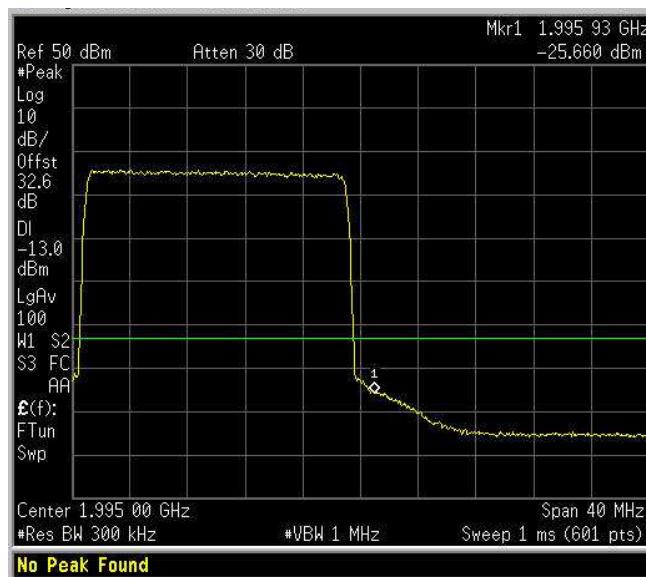
Downlink – 20 QAM

LOW BAND EDGE



Downlink – 20 QAM

HIGH BAND EDGE





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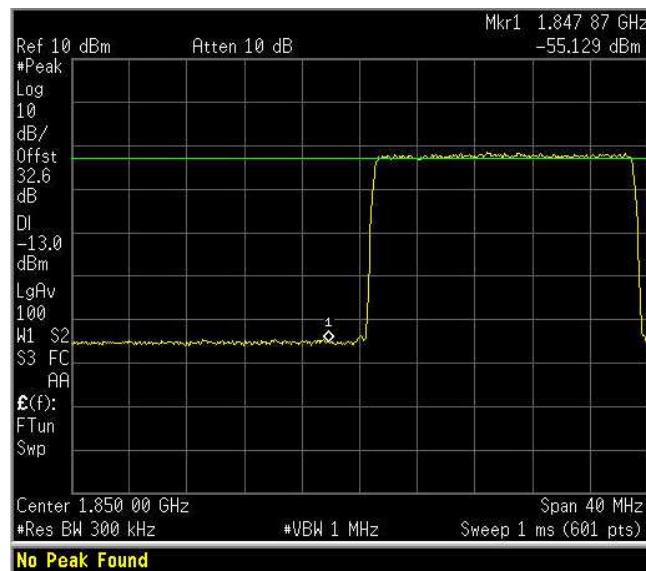
Appendix B: Block diagrams

Report Number: 156523-6TRFWL

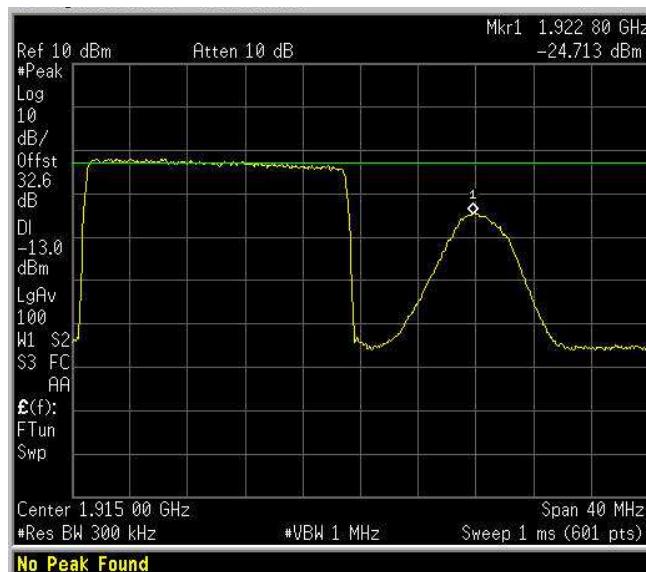
Specification: FCC 24 Subpart E

### Test data, continued band edges:

Uplink – 20 QAM  
LOW BAND EDGE



Uplink – 20 QAM  
HIGH BAND EDGE





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Appendix B: Block diagrams

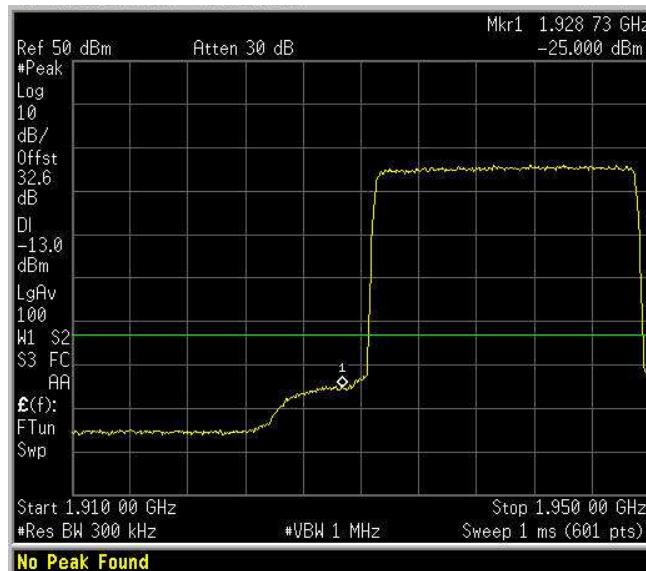
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Specification: FCC 24 Subpart E

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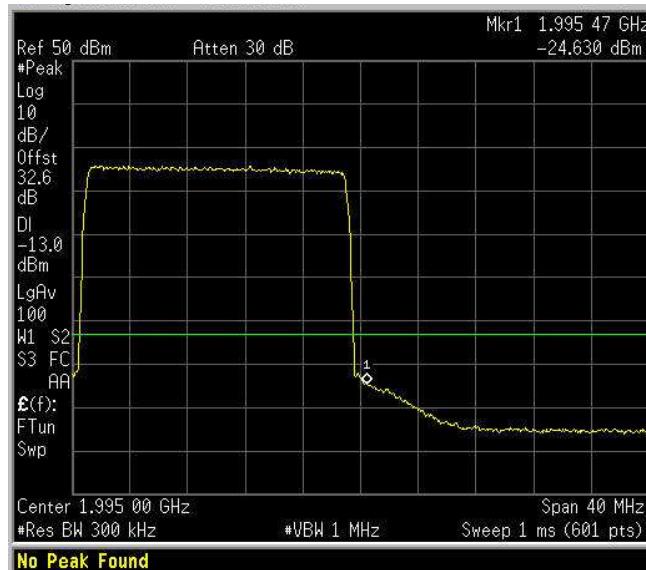
Downlink – 20 QPSK

LOW BAND EDGE



Downlink – 20 QPSK

HIGH BAND EDGE





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Appendix B: Block diagrams

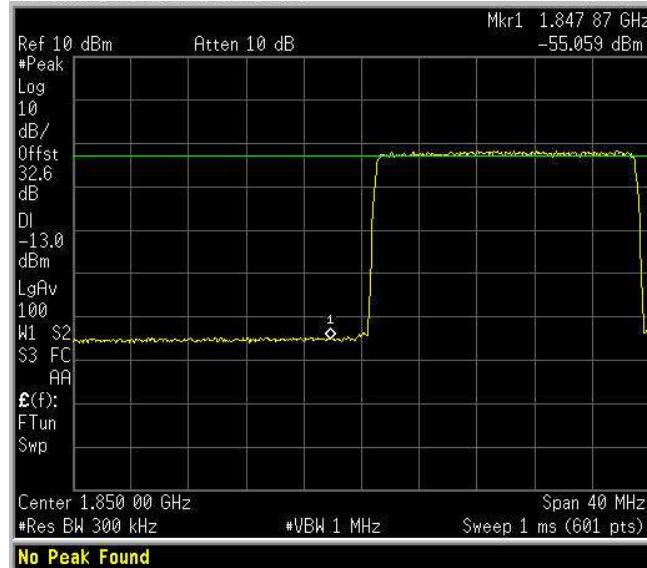
Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

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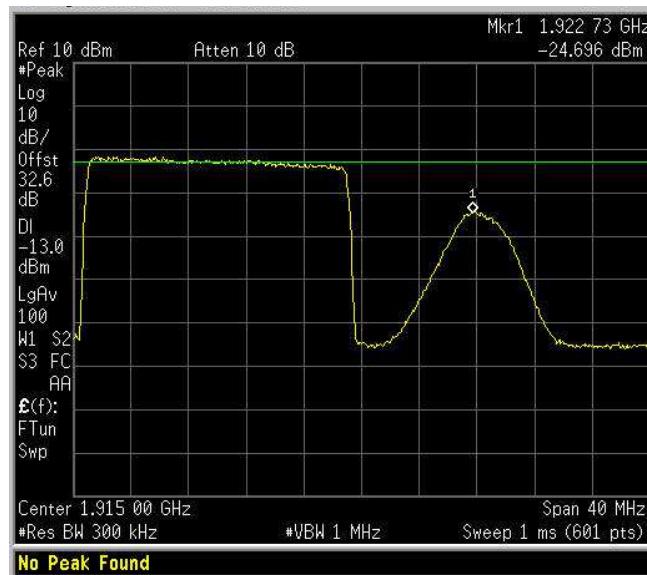
Uplink – 20 QPSK

LOW BAND EDGE



Uplink – 20 QPSK

HIGH BAND EDGE





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Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

### Clause 24.238(a) Field strength of spurious radiation

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

Frequency, MHz	Attenuation below carrier, dBc	ERP of spurious, dBm	Equivalent field strength limit* at 3 m, dB $\mu$ V/m
30–10 <sup>th</sup> harmonic	$43 + 10 \log(P)$	-13	84.4

\* - Equivalent field strength limit was calculated from maximum allowed ERP of spurious as follows:

$$E = \sqrt{\frac{30 \times P \times 1.64}{r}}, \text{ where } P \text{ is ERP in W, 1.64 is numeric gain of ideal dipole and } r \text{ is antenna to EUT distance in m.}$$

(b) *Measurement procedure.* Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth ( i.e. 1 MHz or 1 percent of emission bandwidth, as specified).

Test date: --

Test results: Pass: See test report 131640-6TRFEMC

### Special notes

- The spectrum was searched from 30 MHz up to 10th harmonic
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- Only the worst data presented in the test report.

The EUT's antenna port was terminated with 50 Ω termination



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Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

## Clause 24.235 Frequency stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Assigned frequency, MHz	Limits
1850.2	26 dBc points including frequency drift shall remain within the authorized frequency block
1880.0	
1909.8	

Test date: --

Test results: NOT APPLICABLE (Modulation & frequency conversion circuitry not in use)

## Special notes

The resolution bandwidth was set to 100 kHz, video bandwidth was set to 100 kHz

## Clause 24.235 Frequency stability, continued

### Test data

Conditions	Frequency (Hz)	Maximum drift (Hz)
+50 °C, Nominal power		
+40 °C, Nominal power		
+30 °C, Nominal power		
+20 °C, +10% power		
+20 °C, Nominal power		Reference
+20 °C, -10% power		
+10 °C, Nominal power		
0 °C, Nominal power		
-10 °C, Nominal power		
-20 °C, Nominal power		



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Appendix B: Block diagrams

Report Number: **156523-6TRFWL**

Specification: FCC 24 Subpart E

Clause Para NO. 2-11-04/EAB/RF

Filter Frequency Response

Test date: 2009-09-25, t.r 131640-6TRFEMC.

Test results: **Pass, see previous test report 131640-6TRFEMC**



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Appendix B: Block diagrams

Report Number: **156523-6TRFWL**

Specification: FCC 24 Subpart E

### Photo Set up





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Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

## Photo EUT

### REMOTE





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Appendix B: Block diagrams

Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E

## MASTER



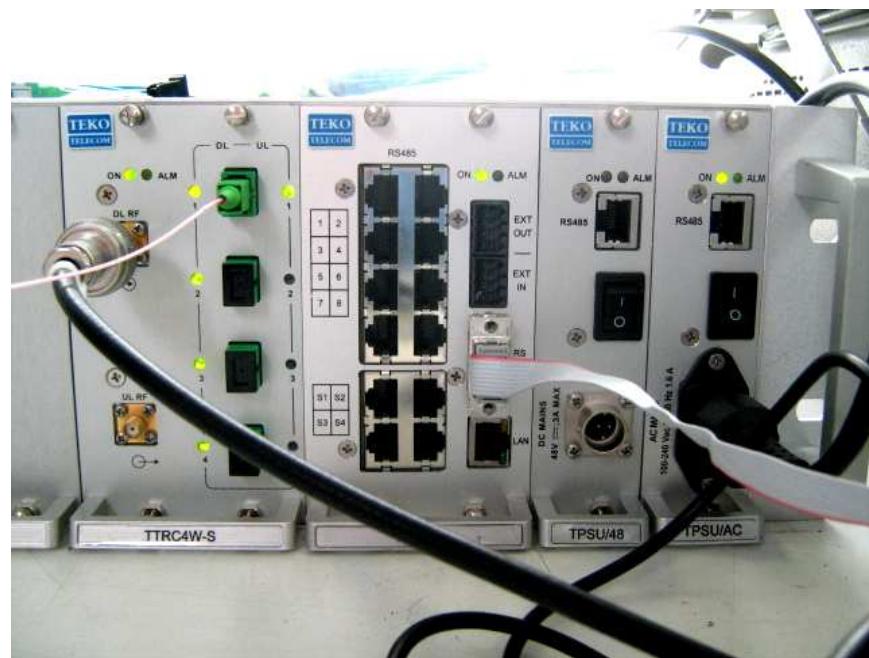


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Appendix B: Block diagrams

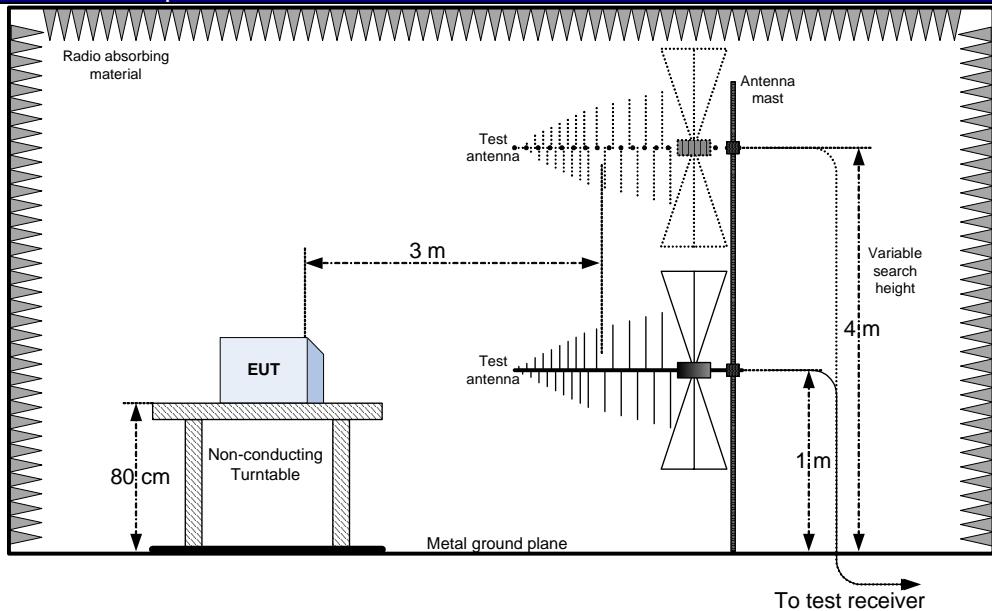
Report Number: 156523-6TRFWL

Specification: FCC 24 Subpart E



## Appendix B: Block diagrams of test set-ups

### Radiated emissions set-up



### Substitution method set-up

