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### A1. Measurement result - Plot no.1

: RF Output Power Subclause Measurement method : Conducted measurement @ Antenna port Measured channel : Lower channel (channel no. 3) = 1626.59375 MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-21-2008  $^{\circ}$ C Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.59375 MHz Video BW : 1000 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW :100 kHz Remark Max. Hold Test Result : Passed \* Agilent 19:29:46 Aug 21, 2008 Peak Search Correction R T Mkr1 1.626 584 GHz Directional coupler Ref 40.47 dBm Atten 40 dB 34.22 dBm **Next Peak** Offset : 10.5 dB -. Attenuation(10dB) : (10.2 dB) Next Pk Right -. Test cable : (0.3 dB)BW correction factor: Next Pk Left Antenna Gain : 3.0 dBi Min Search LgAv Total correction : 3.0 dB Pk-Pk Search Measured level : 34.22 dBm Mkr → CF Emission level : 37.22 dBm : 15.00 dBW Limit (45.0 dBm)More Center 1.626 594 GHz Span 5 MHz Sweep 1.067 ms (1601 pts) 1 of 2 VBW 1 MHz File Operation Status, C:\S10001.AMP file loaded

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#### A1. Measurement result - Plot no.2

: RF Output Power Subclause Measurement method : Conducted measurement @ Antenna port Measured channel : Mid channel (channel no. 544) = 1643.5 MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-21-2008  $^{\circ}$ C Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1643.5000 MHz Video BW : 1000 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW :100 kHz Remark Max. Hold Test Result : Passed \* Agilent 19:32:15 Aug 21, 2008 Peak Search Correction R T Mkr1 1.643 500 GHz Directional coupler Ref 40.47 dBm Atten 40 dB 34.16 dBm **Next Peak** Offset : 10.5 dB Marker -. Attenuation(10dB) : (10.2 dB) 1.643500000 GHz Next Pk Right -. Test cable : (0.3 dB)34.16 dBm BW correction factor: Next Pk Left Antenna Gain : 3.0 dBi Min Search LgAv Total correction : 3.0 dB Pk-Pk Search AA Many In and I wan Measured level : 33.16 dBm Mkr → CF Emission level : 37.16 dBm Limit : 15.00 dBW (45.0 dBm)More Center 1.643 500 GHz Span 5 MHz 1 of 2 Sweep 1.067 ms (1601 pts) #VBW 100 kHz File Operation Status, C:\S10001.AMP file loaded

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### A1. Measurement result - Plot no.3

: RF Output Power Subclause Measurement method : Conducted measurement @ Antenna port Measured channel : High channel (channel no.1087) = 1660.46875 MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-21-2008  $^{\circ}$ C Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.59375 MHz Video BW : 1000 kHz Center frequency Video-Averaging MHz : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW :100 kHz Remark Max. Hold Test Result : Passed \* Agilent 19:33:26 Aug 21, 2008 Peak Search Correction R T Mkr1 1.660 462 GHz Directional coupler Ref 40.47 dBm Atten 40 dB 33.88 dBm **Next Peak** Offset : 10.5 dB -. Attenuation(10dB) : (10.2 dB) Next Pk Right -. Test cable : (0.3 dB)BW correction factor: Next Pk Left Antenna Gain : 3.0 dBi Min Search LgAv Total correction : 3.0 dBi Pk-Pk Search Measured level : 33.88 dBm Mkr → CF Emission level : 36.88 dBm Limit : 15.00 dBW (45.0 dBm)More Center 1.660 469 GHz Span 5 MHz Sweep 1.067 ms (1601 pts) 1 of 2 #VBW 100 kHz File Operation Status, C:\S10001.AMP file loaded

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### A1. Measurement result - Plot no.4

: Occupied Bandwidth Subclause Measurement method : Conducted measurement @ Antenna port Measured channel : Low channel (channel no. 3) = 1626.59375MHzOperating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-29-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.5 - 1660.5 MHz Video BW : 3 kHz : 1 sweep Center frequency MHz Video-Averaging Frequency Span : 2 Pos Peak MHz Detector mode Resolution BW 3 kHz Max. Hold Remark : The measured value is about 33.21 kHz with 3 kHz resolution Test Result \* Agilent 15:34:55 Aug 29, 2008 R T Correction 33.21 kHz Directional coupler -0.64 dB Ref 41.1 dBm #Atten 30 dB Offset : 10.5 dB #Avg -. Attenuation(10dB) : (10.2 dB) -. Test cable : (0.3 dB)dB/ BW correction factor: Antenna Gain : 3.0 dBi PAvg Total correction : 3.0 dB Measured level Emission level Marker 🛆 Limit 33.210 kHz -0.64 dB Center 1.626 531 25 GHz Span 100 kHz VBW 3 kHz

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### A1. Measurement result - Plot no.5

: Occupied Bandwidth Subclause Measurement method : Conducted measurement @ Antenna port Measured channel : Low channel (channel no. 544) = 1643.5 MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-29-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.5 - 1660.5 MHz Video BW : 3 kHz : 1 sweep Center frequency MHz Video-Averaging Frequency Span : 2 Pos Peak MHz Detector mode Resolution BW 3 kHz Max. Hold Remark : The measured value is about 33.54 kHz with 3 kHz resolution Test Result \* Agilent 13:29:16 Aug 29, 2008 R Correction 33.54 kHz Directional coupler Ref 43.9 dBm #Atten 40 dB 0.67 dB Offset : 10.5 dB #Avg -. Attenuation(10dB) : (10.2 dB) -. Test cable : (0.3 dB)dB/ BW correction factor: Antenna Gain : 3.0 dBi PAvg Total correction : 3.0 dB Measured level A AA **£**(f): f<50k Emission level Limit Center 1.643 500 00 GHz Span 100 kHz VBW 3 kHz

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#### A1. Measurement result - Plot no.6

Subclause : Occupied Bandwidth

Measurement method : Conducted measurement @ Antenna port

Measured channel : Low channel (channel no. 1087) = 1660.46875 MHz

Operating condition : Max. Power output with modulated rf-carrier

Environment condition Test date : 08-21-2008

Temperature & Humidity : 23 °C 45 %RH

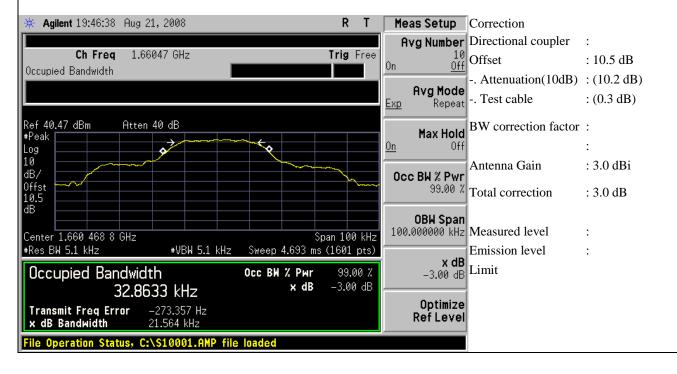
Test voltage : 3.7 Vdc

Test setup

Measured Frequency: 1626.5 - 1660.5 MHzVideo BW: 3 kHzCenter frequency: MHzVideo-Averaging: 1 sweepFrequency Span: MHzDetector mode: 2 Pos PeakResolution BW: 3 kHzMax. Hold

Remark : The measured value is about 33.54 kHz with 3 kHz resolution

Test Result :



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# A1. Measurement result – Plot no.7

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHzOperating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-27-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.5 - 1660.5 MHz Video BW : 3 kHz : 1 sweep Center frequency MHz Video-Averaging : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 3 kHz Max. Hold : Function test to verify general characteristic for measurement Remark orientation Test Result \* Agilent 12:29:13 Aug 27, 2008 R T Correction kHz Directional coupler Ref 35.6 dBm #Atten 40 dB -61.52 dB Offset : 19.6 dB \_0g -. Attenuation(20dB) : (10.2 dB) -. Test cable : (0.3 dB)BW correction factor: Antenna Gain : 3.0 dBi \_gAv Total correction : 3.0 dB Measured level AA Emission level Marker 🛆 Limit -766.666 kHz -61.52 dB Center 1.626 531 GHz Span 2 MHz #VBW 30 kHz

Sweep 2.68 ms (601 pts)

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#### A1. Measurement result - Plot no.8

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz: Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-27-2008  $^{\circ}$ C Temperature & Humidity 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.59375 Hz Video BW : 3 kHz Center frequency : 1626.59375 Hz Video-Averaging : 1 sweep Frequency Span : 500 kHz Detector mode : 2 Pos Peak Resolution BW : 3 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, Remark worst case = maximum antenna gain Test Result : Passed \* Agilent 19:18:42 Aug 27, 2008 R T Correction Mkr1 1.626 501 6 G Directional coupler Ref 34 dBm #Atten 40 dB Offset : 21.1 dB Log -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.5 dB)BW correction factor: 1.2 dB  $(3k \rightarrow 4k)$ Antenna Gain : 3.0 dBi PAvg : 4.2 dB Total correction Measured level dBm A AA Emission level : Below limit Limit qwc 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Span 500 kH>250% of Ass' bw: -47dBc/4kHz Center 1.626 531 0 GHz #VBW 3 kHz Sweep 211.8 ms (601 pt

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#### A1. Measurement result - Plot no.9

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-27-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.5 - 1660.5 MHz Video BW : 3 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 3 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, Remark worst case = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:24:06 Aug 27, 2008 R T Correction 1.627 69 GHz Directional coupler -48.13 dBm Ref 34 dBm #Atten 40 dB Offset : 21.1 dB #Avg -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.5 dB)BW correction factor: 1.2 dB  $(3k \rightarrow 4k)$ Antenna Gain : 3.0 dBi PAvg Total correction : 4.2 dB Measured level : -48.13 dBm Emission level : -43.93 dBm Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 1.660 50 GHz > 250% of Ass' bw:-47dBc/4kHz Start 1.626 50 GHz #VBW 3 kHz Sweep 14.4 s (601 pts)

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### A1. Measurement result – Plot no.10

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-27-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup : 30 - 100 MHzMeasured Frequency Video BW : 3 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 3 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, worst case Remark = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:26:57 Aug 27, 2008 R T Correction Mkr1 97.67 MHzDirectional coupler Ref 34 dBm #Atten 40 dB -57.78 dBm Offset : 21.1 dB #Avg .og -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.5 dB)BW correction factor: 1.2 dB  $(3k \rightarrow 4k)$ Antenna Gain : 3.0 dBi PAvg Total correction : 4.2 dB Measured level : -57.78 dBm AA Emission level : -53.58 dBm Tun Limit qwć 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 100.00 MHz >250% of Ass' bw:-47dBc/4kHz Start 30.00 MHz Res BW 3 kHz #VBW 3 kHz Sweep 29.66 s (601 pts)

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### A1. Measurement result – Plot no.11

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-27-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 100 - 1000 MHzVideo BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:30:43 Aug 27, 2008 R T Correction Mkr1 739.0 MHzDirectional coupler Ref 34 dBm #Atten 40 dB -56.72 dBm Offset : 15.9 dB #Avg .og -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -56.72 dBm AA Emission level : -57.72 dBm Tun Limit gwб 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 1.000 0 GHz >250% of Ass' bw:-43+10log(Pmax) Start 100.0 MHz Res BW 10 kHz #VBW 10 kHz Sweep 34.32 s (601 pts)

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### A1. Measurement result - Plot no.12

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-27-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1.0 GHz - 1.626.5 GHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:38:15 Aug 27, 2008 R T Correction 1.626 5 GHz Directional coupler Ref 30 dBm #Atten 30 dB -33.81 dBm Offset : 15.9 dB #Avg Log -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dBMeasured level : -33.81 dBm AA Emission level : -34.81 dBm Tun Limit qwć 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz \$top 1.626 5 GHz > 250% of Ass' bw:-(43+10log(Pmax)dBc Start 1.000 0 GHz Res BW 10 kHz #VBW 10 kHz Sweep 23.89 s (601 pts)

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### A1. Measurement result – Plot no.13

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-27-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1660.5 - 30005 MHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:40:09 Aug 27, 2008 R T Correction 2.857 1 GHzDirectional coupler Ref 30 dBm #Atten 30 dB Offset : 15.9 dB #Avg Log -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -64.72 dBm AA Emission level : -65.72 dBm **£**(f): Tun Limit qwć 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 3.000 0 GHz >250% of Ass' bw:-43+10log(Pmax) Start 1.660 5 GHz #VBW 10 kHz Sweep 51.07 s (601 pts)

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### A1. Measurement result - Plot no.14

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-27-2008  $^{\circ}$ C Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 2.5 - 12.75 MHz Video BW : 2 MHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 2 MHz Max. Hold Remark : Investigation of harmonics Test Result Agilent 20:06:55 Aug 27, 2008 R Correction Mkr4 8.138 GHzDirectional coupler Ref 1.1 dBm #Atten 6 dB -52.56 dBm Offset #Avg -. Attenuation(10dB): -. Test cable BW correction factor: Antenna Gain Avg Total correction M1 S2 Start 2.500 GHz Stop 12.750 GHz Measured level ŧRes BW 2 MHz Sweep 17.12 ms (601 pts) VBW 2 MHz Emission level Marker Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz >250% of Ass' bw:-43+10log(Pmax)

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### A1. Measurement result – Plot no.15

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 3253.066 MHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span 500 kHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 11:54:19 Aug 28, 2008 R T Correction 3.253 066 7 GHz Directional coupler Mkr1 Ref 1.9 dBm #Atten 10 dB -43.47 dBm Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -43.47 dBm AA Emission level : -44.47 dBm Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 3.253 066 7 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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### A1. Measurement result – Plot no.16

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 4879.602 MHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep : 2 Pos Peak Frequency Span 500 kHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 12:29:45 Aug 28, 2008 R T Correction 4.879 602 4 GHz Directional coupler Mkr1 Ref 1.9 dBm #Atten 10 dB -35.47 dBm Offset : 15.9 dB #Avg .og -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dBMeasured level : -35.47 dBm Emission level : -34.47 dBm Marker 4.879602400 GHz Limit 50-100% of Ass' bw: -25dBc/4kHz -35.47 dBm 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 4.879 600 7 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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### A1. Measurement result – Plot no.17

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 6506.136 MHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep : 2 Pos Peak Frequency Span 500 kHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 12:33:18 Aug 28, 2008 R T Correction 6.506 136 0 GHzDirectional coupler Mkr1 Ref 1.9 dBm #Atten 0 dB 47.58 dBm Offset : 15.9 dB #Avg -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dBMeasured level : -47.58 dBm Emission level : -48.58 dBm Marker 6.506136000 GHz Limit 50-100% of Ass' bw: -25dBc/4kHz -47.58 dBm 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 6.506 136 8 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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## A1. Measurement result – Plot no.18

Subclause : Emission Limitations

Measurement method : Conducted measurement

Measured channel : Low channel (channel no. 3) = 1626.59375MHz
Operating condition : Max. Power output with modulated rf-carrier

Environment condition Test date : 08-28-2008

Temperature & Humidity : 23 °C 45 %RH

Test voltage : 3.7 Vdc

Test setup

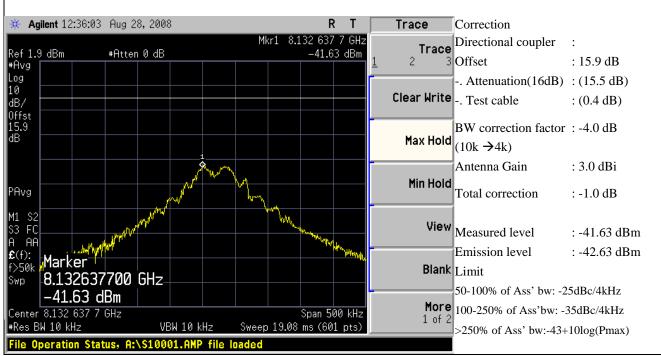
Measured Frequency: 8132.637 MHzVideo BW: 10 kHzCenter frequency: MHzVideo-Averaging: 1 sweepFrequency Span: 500 kHzDetector mode: 2 Pos PeakResolution BW: 10 kHzMax. Hold

Remark Carrier at the lower edge of the band. For EIRP calculation, worst case

: = maximum antenna gain

Out of the band limit (worst case : 34dBm-47dBc = -13dBm)

Test Result : Passed



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### A1. Measurement result – Plot no.19

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 11.385 746 GHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span 500 kHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 12:41:30 Aug 28, 2008 R T Correction Mkr1 11.385 746 1 GHzDirectional coupler #Atten 6 dB -55.78 dBm Ref -4.1 dBm Offset : 15.9 dB #Avg Log -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dBMeasured level : -55.78 dBm AA Emission level : -56.78 dBm Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 11.385 700 1 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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### A1. Measurement result – Plot no.20

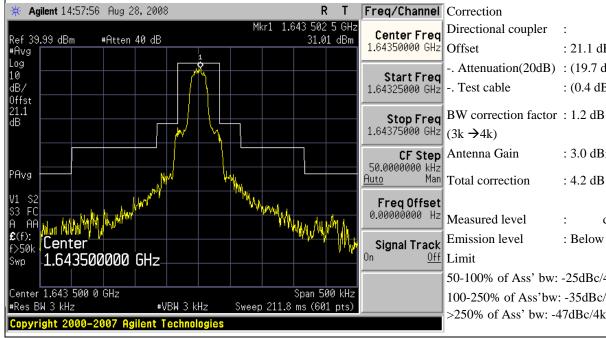
: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Low channel (channel no. 3) = 1626.59375MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 12.0 - 20.0 GHzVideo BW : 3 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 3 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 13:01:12 Aug 28, 2008 R T Correction Mkr1 19.467 GHzDirectional coupler Ref 1.1 dBm #Atten 0 dB -88.86 dBm Offset : 11.1 dB #Avg Log 10 -. Attenuation(10dB) : (10.7 dB) -. Test cable : (0.4 dB)BW correction factor: -8.8 dB  $(30k \rightarrow 4k)$ Antenna Gain : 3.0 dBi PAvg Total correction : -5.8 dB Measured level : -88.46 dBm AA Emission level : -95.13 dBm **£**(f): Tun Limit gwб 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 20.000 GHz >250% of Ass' bw:-43+10log(Pmax) Start 12.000 GHz Res BW 30 kHz VBW 30 kHz Sweep 33.89 s (601 pts)

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#### A1. Measurement result - Plot no.21

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ C Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1643.5 MHz Video BW : 3 kHz Center frequency : 1643.5 MHz Video-Averaging : 1 sweep Frequency Span :500 kHz Detector mode : 2 Pos Peak Resolution BW : 3 kHz Max. Hold : Carrier at the middle of the band. For EIRP calculation, Remark worst case = maximum antenna gain Test Result : Passed



Attenuation(20dB) : (19.7 dB) : (0.4 dB)

: 21.1 dB

: 3.0 dBi

: 4.2 dB

dBm : Below limit

50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz >250% of Ass' bw: -47dBc/4kHz

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#### A1. Measurement result – Plot no.22

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1626.5 - 1660.5 MHz Video BW : 3 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 3 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 15:35:51 Aug 28, 2008 R T Correction 1.641 23 GHz Directional coupler -51.29 dBm Ref 3**4.**99 dBm #Atten 40 dB Offset : 15.9 dB Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dBMeasured level : -51.29 dBm AA Emission level : -52.29 dBm **£**(f): Tun Limit gwб 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 1.660 50 GHz >250% of Ass' bw:-43+10log(Pmax) Start 1.626 50 GHz VBW 10 kHz Sweep 1.296 s (601 pts)

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### A1. Measurement result – Plot no.23

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 30 - 100 MHz Video BW : 3 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 3 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 15:39:10 Aug 28, 2008 Peak Search Correction R T Mkr1 76.55 MHz Directional coupler Ref 18.99 dBm #Avg -67.46 dBm #Atten 30 dB **Next Peak** Offset : 21.1 dB Log -. Attenuation(16dB) : (19.7 dB) Next Pk Right -. Test cable : (0.4 dB)BW correction factor: 1.2 dB Next Pk Left  $(3k \rightarrow 4k)$ Antenna Gain : 3.0 dBi Min Search PAvg Total correction : 4.2 dB Pk-Pk Search Measured level : -67.46 dBm A AA Emission level : -63.26 dBm £(f): FTun Mkr → CF Limit qwa 50-100% of Ass' bw: -25dBc/4kHz More 100-250% of Ass'bw: -35dBc/4kHz Start 30.00 MHz Stop 100.00 MHz #Res BW 3 kHz Sweep 29.66 s (601 pts) VBW 3 kHz >250% of Ass' bw:-43+10log(Pmax) Copyright 2000-2007 Agilent Technologies

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### A1. Measurement result – Plot no.24

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 100 - 1626.5 MHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 15:42:23 Aug 28, 2008 R T Correction Mkr1 741.1 MHz -66.80 dBm Ref 18.99 dBm #Atten 30 dB Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB  $(10k \rightarrow 4k)$ Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -66.80 dBm AA Emission level : -67.80 dBm **£**(f): Tun Limit gwб  $^{1}$ 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 1.626 5 GHz > 250% of Ass' bw:-43+10log(Pmax) Start 100.0 MHz Res BW 10 kHz VBW 10 kHz Sweep 58.2 s (601 pts)

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### A1. Measurement result – Plot no.25

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1660.5 - 2500 MHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 15:45:00 Aug 28, 2008 R T Correction 2.000 5 GHzDirectional coupler Ref 18.99 dBm #Atten 30 dB -66.85 dBm Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB  $(10k \rightarrow 4k)$ Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -66.85 dBm AA Emission level : -67.85 dBm **£**(f): Tun Limit qwć 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 2.500 0 GHz >250% of Ass' bw:-43+10log(Pmax) Start 1.660 5 GHz Res BW 10 kHz VBW 10 kHz Sweep 32.01 s (601 pts)

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### A1. Measurement result - Plot no.26

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-28-2008  $^{\circ}$ C Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 2.5 - 10 GHzVideo BW : 300 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 300 kHz Max. Hold Remark : Investigation of harmonics Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed Agilent 15:50:37 Aug 28, 2008 R T Correction 8.212 5 GHz Directional coupler Ref 1.1 dBm #Atten 10 dB -50.10 dBm Offset #Avg -. Attenuation(16dB): -. Test cable dB/ BW correction factor: 2  $(10k \rightarrow 4k)$ Antenna Gain Avg Total correction M1 S2 Start 2.500 0 GHz Stop 10.000 0 GHz Measured level #Res BW 300 kHz Sweep 317.8 ms (601 pts) VBW 300 kHz Emission level Marker Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz >250% of Ass' bw:-43+10log(Pmax)

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#### A1. Measurement result – Plot no.27

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 3.286 992 GHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 15:58:36 Aug 28, 2008 R T Correction 3.287 005 7 GHz Directional coupler Mkr1 Ref 0.9 dBm #Atten 0 dB 42.03 dBm Offset : 15.9 dB #Avg Log -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -42.03 dBm Emission level : -43.03 dBm Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 3.286 992 3 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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### A1. Measurement result - Plot no.28

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 4.903 508 GHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, worst case Remark = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 16:13:08 Aug 28, 2008 Peak Search Correction R T Mkr1 4.930 508 4 GHz Directional coupler Ref 0.9 dBm #Avg -37.94 dBm #Atten 0 dB **Next Peak** Offset : 15.9 dB Log -. Attenuation(16dB): (15.5 dB)Next Pk Right -. Test cable : (0.4 dB)BW correction factor: -4.0 dB Next Pk Left  $(10k \rightarrow 4k)$ Antenna Gain : 3.0 dBi Min Search PAvg Total correction : -1.0 dB Pk-Pk Search Measured level : -37.94 dBm Emission level : -38.94 dBm £(f): Mkr → CF Limit 50-100% of Ass' bw: -25dBc/4kHz More 100-250% of Ass'bw: -35dBc/4kHz Center 4.930 500 0 GHz Span 500 kHz #Res BW 10 kHz Sweep 19.08 ms (601 pts) VBW 10 kHz >250% of Ass' bw:-43+10log(Pmax) Copyright 2000-2007 Agilent Technologies

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### A1. Measurement result – Plot no.29

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup : 6.574 010 GHz Measured Frequency Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, worst case Remark = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 16:15:05 Aug 28, 2008 Peak Search Correction R T Mkr1 6.574 010 1 GHz Directional coupler Ref 0.9 dBm #Avg #Atten 0 dB -49.00 dBm **Next Peak** Offset : 15.9 dB Log -. Attenuation(16dB) : (15.5 dB) Next Pk Right -. Test cable : (0.4 dB)BW correction factor: -4.0 dB Next Pk Left  $(10k \rightarrow 4k)$ Antenna Gain : 3.0 dBi Min Search PAvg Total correction : -1.0 dB Pk-Pk Search Measured level : -49.00 dBm Emission level : -50.00 dBm £(f): myphy were Mkr → CF Limit 50-100% of Ass' bw: -25dBc/4kHz More 100-250% of Ass'bw: -35dBc/4kHz Center 6.574 000 0 GHz Span 500 kHz Sweep 19.08 ms (601 pts) #Res BW 10 kHz VBW 10 kHz >250% of Ass' bw:-43+10log(Pmax) Copyright 2000-2007 Agilent Technologies

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### A1. Measurement result – Plot no.30

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 8.217 484 GHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, worst case Remark = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 16:17:46 Aug 28, 2008 R T Correction 8.217 484 4 GHz Directional coupler Mkr1 Ref 0.9 dBm #Atten 0 dB 40.03 dBm Offset : 15.9 dB -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi \_gAv Total correction : -1.0 dB Measured level : -40.03 dBm AΑ Emission level : -41.03 dBm Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 8.217 479 4 GHz Res BW 10 kHz VBW 10 kHz Sweep 6.04 ms (601 pts)

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### A1. Measurement result - Plot no.31

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 9.860 982 GHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, worst case Remark = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 16:20:58 Aug 28, 2008 R T Correction 9.860 982 5 GHzDirectional coupler Mkr1 Ref 0.9 dBm #Atten 0 dB -44.36 dBm Offset : 15.9 dB -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi gAv. Total correction : -1.0 dB Measured level : -44.36 dBm Emission level : -45.36 dBm Marker 🗠 Limit 9.860982500 GHz 50-100% of Ass' bw: -25dBc/4kHz -44.36 dBm 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) enter 9.860 983 3 GHz Res BW 10 kHz VBW 10 kHz Sweep 6.04 ms (601 pts)

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### A1. Measurement result – Plot no.32

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 10.0 - 20.0 GHzVideo BW : 30 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 30 kHz Max. Hold : Carrier at the lower edge of the band. For EIRP calculation, worst case Remark = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 16:29:19 Aug 28, 2008 R T Correction 11.500 GHz Directional coupler Ref 0.9 dBm #Atten 0 dB -67.99 dBm Offset : 11.1 dB -. Attenuation(10dB) : (10.7 dB) -. Test cable : (0.4 dB)BW correction factor: -8.8 dB  $(30k \rightarrow 4k)$ Antenna Gain : 3.0 dBi \_gAv Total correction : -5.8 dB Measured level : -67.99 dBm AA Emission level : -73.79 dBm **£**(f): Tun Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 20.000 GHz >250% of Ass' bw:-43+10log(Pmax) Start 10.000 GHz Res BW 30 kHz VBW 30 kHz Sweep 13.4 s (601 pts)

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# A1. Measurement result - Plot no.33

Subclause : Emission Limitations

Measurement method : Conducted measurement

Measured channel : Mid. channel (channel no. 544) = 1643.5 MHz
Operating condition : Max. Power output with modulated rf-carrier

Environment condition Test date : 08-28-2008

Temperature & Humidity : 23 °C 45 %RH

Test voltage : 3.7 Vdc

Test setup

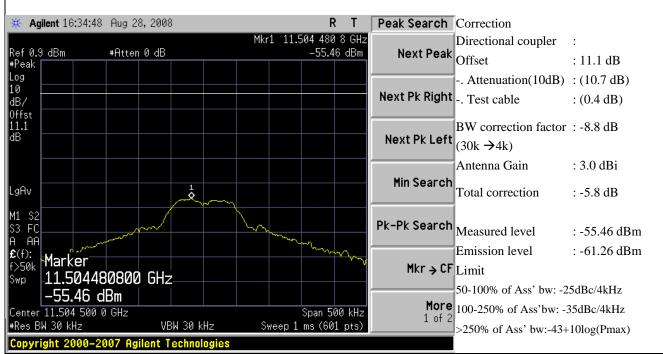
Measured Frequency: 11.504 480 GHzVideo BW: 30 kHzCenter frequency: MHzVideo-Averaging: 1 sweepFrequency Span: MHzDetector mode: 2 Pos PeakResolution BW: 30 kHzMax. Hold

Remark : Carrier at the lower edge of the band. For EIRP calculation, worst case

= maximum antenna gain

Out of the band limit (worst case : 34dBm-47dBc = -13dBm)

Test Result : Passed

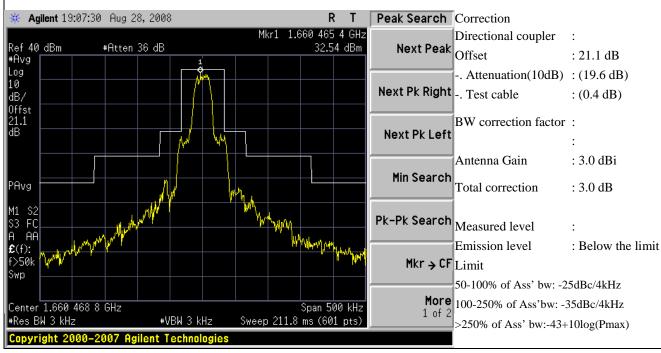


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A1. Measurement result – Plot no.34 : Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1660.46875 MHz Video BW : 3 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 3 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case -43dBc) Test Result : Passed \* Agilent 19:07:30 Aug 28, 2008 Peak Search Correction R T



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### A1. Measurement result – Plot no.35

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency :30 - 100 MHzVideo BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:13:42 Aug 28, 2008 R T Correction Mkr1 95.22 MHzDirectional coupler Ref 18 dBm #Atten 30 dB -67.79 dBm Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -67.79 dBm AA Emission level : -68.79 dBm **£**(f): Tun Limit qwć 1 **Q** 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 100.00 MHz >250% of Ass' bw:-43+10log(Pmax) Start 30.00 MHz Res BW 10 kHz VBW 10 kHz Sweep 2.669 s (601 pts)

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### A1. Measurement result – Plot no.36

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 100 - 1626.5 MHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:16:22 Aug 28, 2008 R T Correction 1.522 2 GHzDirectional coupler Ref 18 dBm #Atten 30 dB -67.19 dBm Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -67.19 dBm AA Emission level : -68.19 dBm **£**(f): Tun Limit qwć <u>1</u> 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 1.626 5 GHz >250% of Ass' bw:-43+10log(Pmax) Start 100.0 MHz Res BW 10 kHz VBW 10 kHz Sweep 58.2 s (601 pts)

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## A1. Measurement result – Plot no.37

Subclause : Emission Limitations

Measurement method : Conducted measurement

Measured channel : High channel (channel no. 1087) = 1660.46875 MHz

Operating condition : Max. Power output with modulated rf-carrier

Environment condition Test date : 08-28-2008

Temperature & Humidity : 23 °C 45 %RH

Test voltage : 3.7 Vdc

Test setup

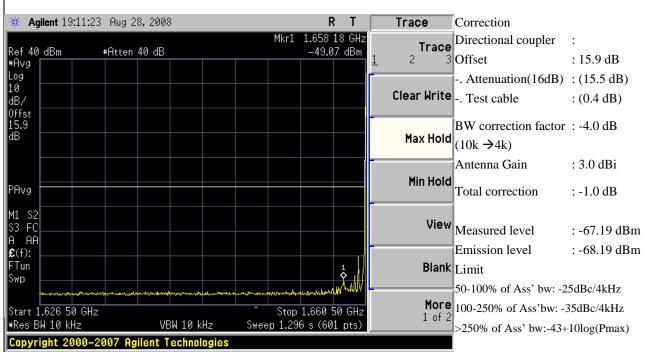
Measured Frequency: 1626.5 - 1660.5 GHzVideo BW: 10 kHzCenter frequency: MHzVideo-Averaging: 1 sweepFrequency Span: MHzDetector mode: 2 Pos PeakResolution BW: 10 kHzMax. Hold

Remark Carrier at the lower edge of the band. For EIRP calculation, worst case

: = maximum antenna gain

Out of the band limit (worst case : 34dBm-47dBc = -13dBm)

Test Result : Passed



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## A1. Measurement result – Plot no.38

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1660.5 - 2500.0 MHzVideo BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:18:34 Aug 28, 2008 R T Correction 2.442 6 GHzDirectional coupler Ref 18 dBm #Atten 30 dB -66.27 dBm Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -66.27 dBm AA Emission level : -67.27 dBm **£**(f): Tun Limit 0 qwć 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 2.500 0 GHz >250% of Ass' bw:-43+10log(Pmax) Start 1.660 5 GHz Res BW 10 kHz VBW 10 kHz Sweep 32.01 s (601 pts)

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# A1. Measurement result - Plot no.39

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz Operating condition : Max. Power output with modulated rf-carrier Enviroment condition Test date : 08-28-2008  $^{\circ}$ C Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 2.5 - 10.0 GHzVideo BW : 3 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 3 kHz Max. Hold Remark : Investigation of Harmonics Test Result : Passed \* Agilent 19:23:47 Aug 28, 2008 R Correction 8,300 0 GHzDirectional coupler -49.95 dBm Ref 1.1 dBm #Atten 4 dB Offset #Àvg -. Attenuation(10dB): -. Test cable dB/ BW correction factor: 2 **\Q** Antenna Gain PAvg Total correction M1 S2 Start 2.500 0 GHz Stop 10.000 0 GHz Measured level Res BW 300 kHz Sweep 317.8 ms (601 pts) VBW 300 kHz Emission level Marker Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz >250% of Ass' bw:-43+10log(Pmax)

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### A1. Measurement result – Plot no.40

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 3.320 928 MHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:28:41 Aug 28, 2008 R T Correction 3.320 945 4 GHzDirectional coupler Mkr1 Ref 1.1 dBm #Atten 0 dB -42.33 dBm Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -42.33 dBm Emission level : -43.33 dBm Limit 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 3.320 928 6 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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#### A1. Measurement result - Plot no.41

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 4.981 397 MHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:30:23 Aug 28, 2008 R T Correction 4.981 397 8 GHz Directional coupler Mkr1 Ref 1.1 dBm #Atten 0 dB Offset : 15.9 dB #Avg .og -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -35.12 dBm Emission level : -36.12 dBm Marker 4.981397800 GHz Limit 50-100% of Ass' bw: -25dBc/4kHz MANA -35.12 dBm 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 4.981 396 1 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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#### A1. Measurement result – Plot no.42

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 6.641 889 MHz Video BW : 10 kHz Center frequency Video-Averaging MHz : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:33:10 Aug 28, 2008 R T Correction 6.641 889 2 GHz Directional coupler Mkr1 Ref 1.1 dBm #Atten 0 dB 45.45 dBm Offset : 15.9 dB #Avg .og -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -45.45 dBm Emission level : -46.46 dBm Marker Limit 6.641889200 GHz 50-100% of Ass' bw: -25dBc/4kHz -45.45 dBm 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 6.641 883 3 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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### A1. Measurement result – Plot no.43

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 8.302 356 MHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:35:07 Aug 28, 2008 R T Correction 8.302 356 0 GHzDirectional coupler Mkr1 Ref 1.1 dBm #Atten 0 dB -39.74 dBm Offset : 15.9 dB #Avg .og -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dBMeasured level : -39.74 dBm Emission level : -40.74 dBm Marker 8.302356000 GHz Limit 50-100% of Ass' bw: -25dBc/4kHz -39.74 dBm 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 8.302 366 8 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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### A1. Measurement result - Plot no.44

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 9.962 830 MHz Video BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep : 2 Pos Peak Frequency Span MHz Detector mode Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:36:57 Aug 28, 2008 R T Correction Mkr1 9.962 830 7 GHz Directional coupler Ref 1.1 dBm #Atten 0 dB Offset : 15.9 dB #Avg .og -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -47.72 dBm Emission level : -48.72 dBm Marker Limit 9.962830700 GHz 50-100% of Ass' bw: -25dBc/4kHz -47.72 dBm 100-250% of Ass'bw: -35dBc/4kHz Span 500 kHz >250% of Ass' bw:-43+10log(Pmax) Center 9.962 829 1 GHz Res BW 10 kHz VBW 10 kHz Sweep 19.08 ms (601 pts)

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### A1. Measurement result – Plot no.45

: Emission Limitations Subclause Measurement method : Conducted measurement Measured channel : High channel (channel no. 1087) = 1660.46875 MHz : Max. Power output with modulated rf-carrier Operating condition Enviroment condition Test date : 08-28-2008  $^{\circ}$ Temperature & Humidity : 23 45 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 10 - 12 GHzVideo BW : 10 kHz Center frequency MHz Video-Averaging : 1 sweep Frequency Span MHz Detector mode : 2 Pos Peak Resolution BW 10 kHz Max. Hold Carrier at the lower edge of the band. For EIRP calculation, worst case Remark : = maximum antenna gain Out of the band limit (worst case : 34dBm-47dBc = -13dBm) Test Result : Passed \* Agilent 19:51:15 Aug 28, 2008 R T Correction Mkr1 11.623 GHzDirectional coupler #Atten 0 dB Ref -3.55 dBm -90.48 dBm Offset : 15.9 dB #Avg Log 10 -. Attenuation(16dB) : (15.5 dB) -. Test cable : (0.4 dB)BW correction factor: -4.0 dB (10k **→**4k) Antenna Gain : 3.0 dBi PAvg Total correction : -1.0 dB Measured level : -90.48 dBm AA Emission level : -91.48 dBm **£**(f): Tun Limit gwб 50-100% of Ass' bw: -25dBc/4kHz 100-250% of Ass'bw: -35dBc/4kHz Stop 12.000 GHz >250% of Ass' bw:-43+10log(Pmax) Start 10.000 GHz Res BW 10 kHz VBW 10 kHz Sweep 76.26 s (601 pts)

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### A1. Measurement result - Plot no.46

: §25.216 Limits on emissions for aeronautical radio navigation-satellite service Sub-clause Measurement method : Conducted measurement : Low channel (channel no. 1087) = 1626.59375 MHz Measured channel Operating condition : Max. Power output with modulated rf-carrier Environment condition Test date : 09-23-2008  $^{\circ}$ Temperature & Humidity : 23 38 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1559 – 1605 MHz Video BW : 1 MHz Center frequency Video-Averaging : 100 sweep MHz Frequency Span : RMS MHz Detector mode Resolution BW Max. Hold 1 MHz Carrier-on state / Carrier at the lower edge of the band Remark : For EIRP calculation, worst case = maximum antenna gain The EIRP, averaged over any 2 millisecond active transmission interval from the MES Test Result : Passed \* Agilent 10:25:17 Sep 23, 2008 Correction 1.588 75 GHz Directional coupler -50.400 dBm Ref 31.9 dBm #Atten 22 dB Offset : 19.9 dB #Avg Log -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.3 dB)BW correction factor: dB -40.0 Antenna Gain : 3.0 dBi PAvg 100 Total correction : 3.0 dB Measured level : -50.4 dBm £(f): Emission level : -47.4 dBm Tun Limit qwc 1559 – 1605 MHz : -70 dBW(-40 dBm) Center 1.582 00 GHz Span 46 MHz #Res BW 1 MHz #VBW 1 MHz Sweep 1 ms (601 pts)

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### A1. Measurement result – Plot no.47

: §25.216 Limits on emissions for aeronautical radio navigation-satellite service Sub-clause Measurement method : Conducted measurement : Low channel (channel no. 1087) = 1626.59375 MHz Measured channel Operating condition : Max. Power output with modulated rf-carrier Environment condition Test date : 09-23-2008  $^{\circ}$ Temperature & Humidity : 23 38 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1605 - 1610 MHz Video BW : 1 MHz Center frequency Video-Averaging : 100 sweep MHz Frequency Span : RMS MHz Detector mode Resolution BW Max. Hold 1 MHz Carrier-on state / Carrier at the lower edge of the band Remark : For EIRP calculation, worst case = maximum antenna gain The EIRP, averaged over any 2 millisecond active transmission interval from the MES Test Result : Passed \* Agilent 10:26:01 Sep 23, 2008 Correction 1.607 550 0 GHz Directional coupler -50.301 dBm Ref 31.9 dBm #Atten 22 dB Offset : 19.9 dB #Avg \_og -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.3 dB)BW correction factor: dB Antenna Gain : 3.0 dBi PAvg 100 Total correction : 3.0 dB Measured level : -50.4 dBm £(f): Emission level : -47.4 dBm Tun Limit qwc 1605 - 1610 MHz: -70 to -46 dBW Center 1.608 750 0 GHz Span 7.5 MHz #Res BW 1 MHz #VBW 1 MHz Sweep 1 ms (601 pts)

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### A1. Measurement result – Plot no.48

: §25.216 Limits on emissions for aeronautical radio navigation-satellite service Sub-clause Measurement method : Conducted measurement : Mid channel (channel no. 544) = 1643.5 MHz Measured channel Operating condition : Max. Power output with modulated rf-carrier Environment condition Test date : 09-11-2008  $^{\circ}$ Temperature & Humidity : 23 40 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1559 – 1605 MHz Video BW : 1 MHz Center frequency Video-Averaging : 100 sweep MHz Frequency Span : RMS MHz Detector mode Resolution BW Max. Hold 1 MHz Carrier-on state / Carrier at the mid channel Remark : For EIRP calculation, worst case = maximum antenna gain The EIRP, averaged over any 2 millisecond active transmission interval from the MES Test Result : Passed \* Agilent 23:06:41 Sep 11, 2008 Correction 1.578 93 GHz Directional coupler Ref 31.9 dBm #Atten 22 dB -50.906 dBm Offset : 19.9 dB #Avg Log -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.3 dB)dB/ BW correction factor: dB -40.0 Antenna Gain : 3.0 dBi #PAvg Total correction : 3.0 dB V1 S2 S3 FC AL Measured level : -50.9 dBm £(f): Emission level : -47.9 dBm Tun Limit qwc 1559 – 1605 MHz : -70 dBW(-40 dBm) Start 1.559 00 GHz Stop 1.605 00 GHz #VBW 1 MHz Sweep 1 ms (601 pts)

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### A1. Measurement result – Plot no.49

Sub-clause : §25.216 Limits on emissions for aeronautical radio navigation-satellite service Measurement method : Conducted measurement : Mid channel (channel no. 544) = 1643.5 MHz Measured channel Operating condition : Max. Power output with modulated rf-carrier Environment condition Test date : 09-11-2008  $^{\circ}$ Temperature & Humidity : 23 40 %RH Test voltage : 3.7 Vdc Test setup Measured Frequency : 1605 - 1610 MHz Video BW : 1 MHz Center frequency Video-Averaging : 100 sweep MHz Frequency Span : RMS MHz Detector mode Resolution BW Max. Hold 1 MHz Carrier-on state / Carrier at the mid channel Remark : For EIRP calculation, worst case = maximum antenna gain The EIRP, averaged over any 2 millisecond active transmission interval from the MES Test Result : Passed \* Agilent 23:07:04 Sep 11, 2008 Correction 1.610 100 0 GHz Directional coupler -51.051 dBm Ref 31.9 dBm #Atten 22 dB Offset : 19.9 dB #Avg \_og -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.3 dB)BW correction factor: dB Antenna Gain : 3.0 dBi #PAvg Total correction : 3.0 dB W1 S2 S3 FC AL Measured level : -50.9 dBm £(f): Emission level : -47.9 dBm Tun Limit qwc 1605 - 1610 MHz: -70 to -46 dBW Start 1.605 000 0 GHz Stop 1.612 500 0 GHz #VBW 1 MHz Sweep 1 ms (601 pts)

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### A1. Measurement result – Plot no.50

Sub-clause : §25.216 Limits on emissions for aeronautical radio navigation-satellite service Measurement method : Conducted measurement : High channel (channel no. 1087) = 1660.46875 MHz Measured channel Operating condition : Max. Power output with modulated rf-carrier Environment condition Test date : 09-11-2008  $^{\circ}$ 40 %RH Temperature & Humidity : 23 Test voltage : 3.7 Vdc Test setup Measured Frequency : 1559 – 1605 MHz Video BW : 1 MHz Center frequency Video-Averaging : 100 sweep MHz Frequency Span : RMS MHz Detector mode Resolution BW Max. Hold 1 MHz Carrier-on state / Carrier at the lower edge of the band Remark : For EIRP calculation, worst case = maximum antenna gain The EIRP, averaged over any 2 millisecond active transmission interval from the MES Test Result : Passed \* Agilent 23:08:39 Sep 11, 2008 Correction 64 GHz Directional coupler Ref 31.9 dBm #Atten 22 dB Offset : 19.9 dB #Avg Log -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.3 dB)dB/ BW correction factor: dB -40.0 Antenna Gain : 3.0 dBi #PAvg Total correction : 3.0 dB V1 S2 S3 FC AL Measured level : -51.0 dBm £(f): Emission level : -48.0 dBm Tun Limit qwc 1559 – 1605 MHz : -70 dBW(-40 dBm) Start 1.559 00 GHz Stop 1.605 00 GHz #VBW 1 MHz Sweep 1 ms (601 pts)

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# A1. Measurement result - Plot no.51

: §25.216 Limits on emissions for aeronautical radio navigation-satellite service Sub-clause Measurement method : Conducted measurement : High channel (channel no. 1087) = 1660.46875 MHz Measured channel Operating condition : Max. Power output with modulated rf-carrier Environment condition Test date : 09-11-2008  $^{\circ}$ 40 %RH Temperature & Humidity : 23 Test voltage : 3.7 Vdc Test setup Measured Frequency : 1605 - 1610 MHz Video BW : 1 MHz Center frequency Video-Averaging : 100 sweep MHz Frequency Span : RMS MHz Detector mode Resolution BW Max. Hold 1 MHz Carrier-on state / Carrier at the lower edge of the band Remark : For EIRP calculation, worst case = maximum antenna gain The EIRP, averaged over any 2 millisecond active transmission interval from the MES Test Result : Passed \* Agilent 23:09:03 Sep 11, 2008 Correction 1.612 100 0 GHz Directional coupler -51.123 dBm Ref 31.9 dBm #Atten 22 dB Offset : 19.9 dB #Avg \_og -. Attenuation(20dB) : (19.6 dB) -. Test cable : (0.3 dB)BW correction factor: dB Antenna Gain : 3.0 dBi #PAvg Total correction : 3.0 dB W1 S2 S3 FC AL Measured level : -51.1 dBm £(f): Emission level : -48.1 dBm FTun Limit Эwр 1605 - 1610 MHz: -70 to -46 dBW Start 1.605 000 0 GHz Stop 1.612 500 0 GHz #VBW 1 MHz Sweep 1 ms (601 pts)

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### A1. Measurement result - Plot no.52

Sub-clause : §25.216 Limits on emissions for aeronautical radio navigation-satellite service

Measurement method : Conducted measurement

Measured channel :

Operating condition : Carrier-off

Environment condition Test date : 09-08-2008

Temperature & Humidity : 23 °C 40 %RH

Test voltage : 3.7 Vdc

Test setup

Remark

Measured Frequency: 1559 – 1610 MHzVideo BW: 1 MHzCenter frequency: MHzVideo-Averaging: 100 sweepFrequency Span: MHzDetector mode: RMSResolution BW: 1 MHzMax. Hold

Carrier-off state,

: For EIRP calculation, worst case = maximum antenna gain

The EIRP, averaged over any 2 millisecond active transmission interval

from the MES

Test Result : Passed

