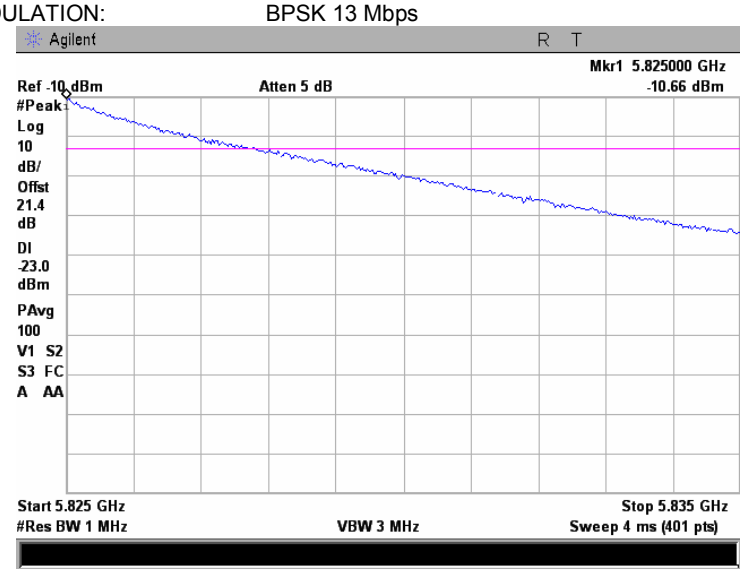
Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

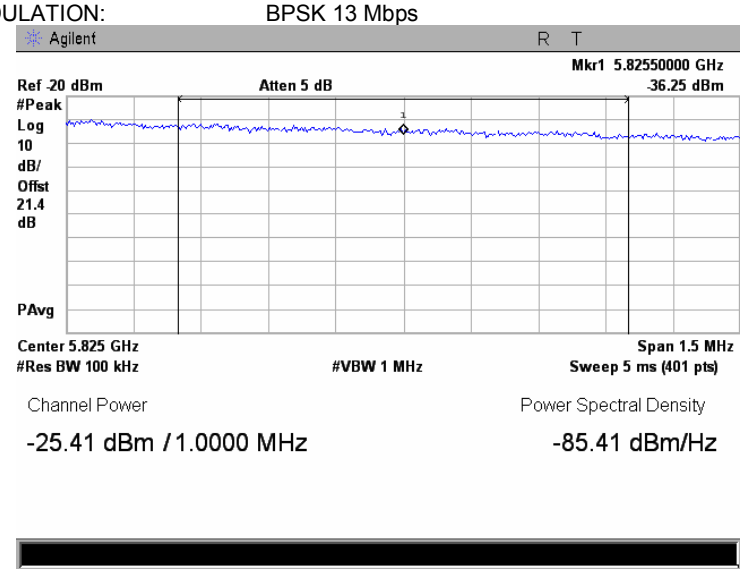
Plot 7.4.43 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.44 Conducted spurious emission measurements at the band edge

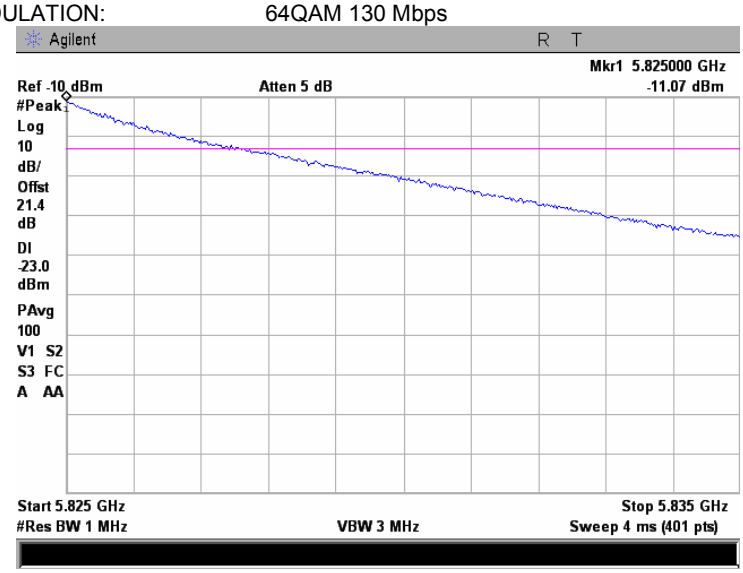
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

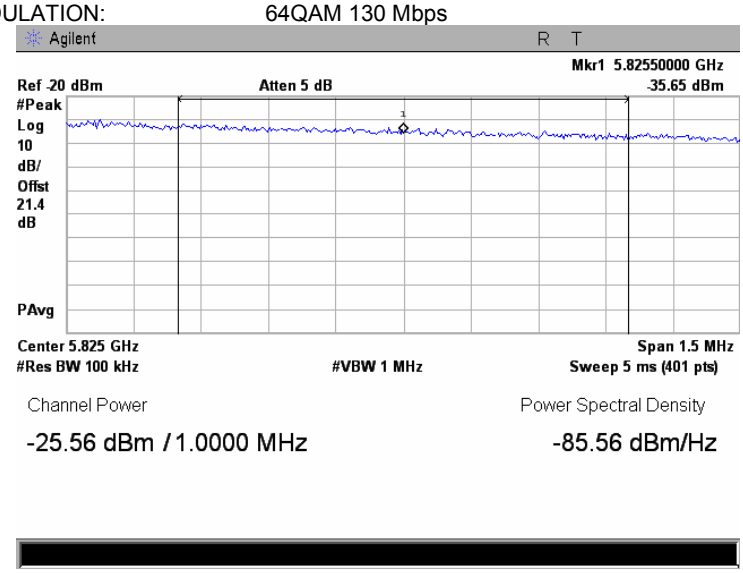
Plot 7.4.45 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.46 Conducted spurious emission measurements at the band edge

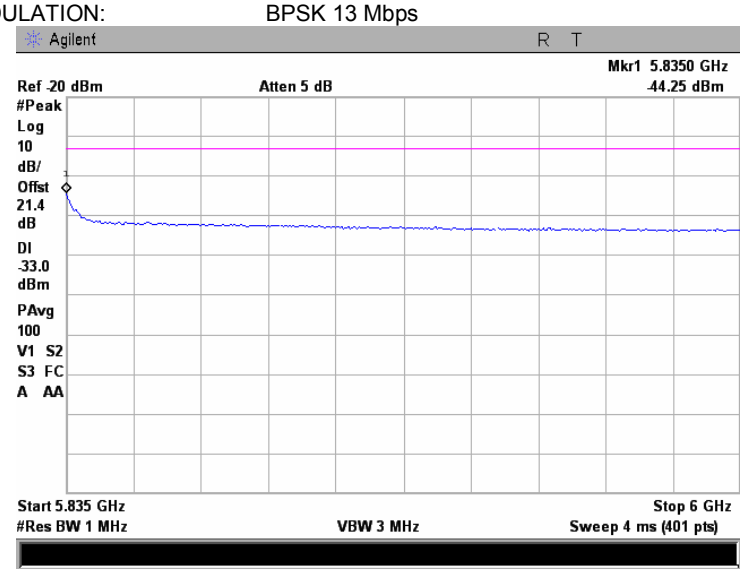
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

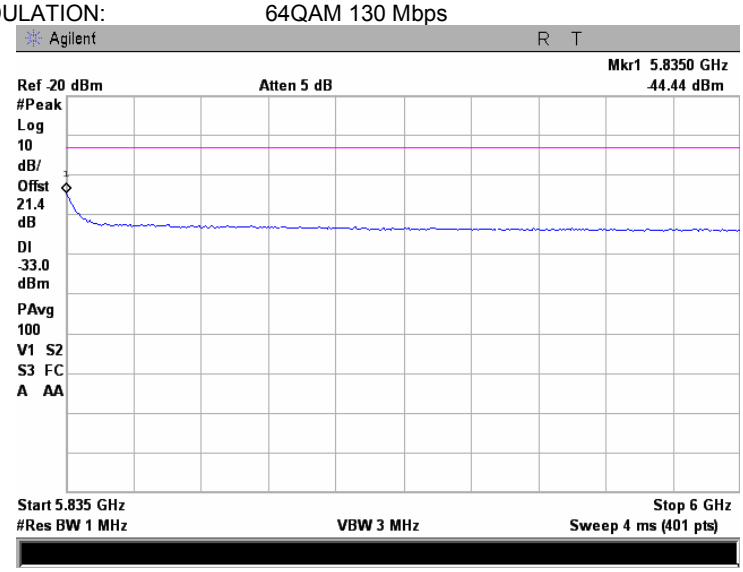
Plot 7.4.47 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.48 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

Table 7.4.4 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak, 100 Power averaging
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 6 dBi
EMISSION BANDWIDTH 10 MHz

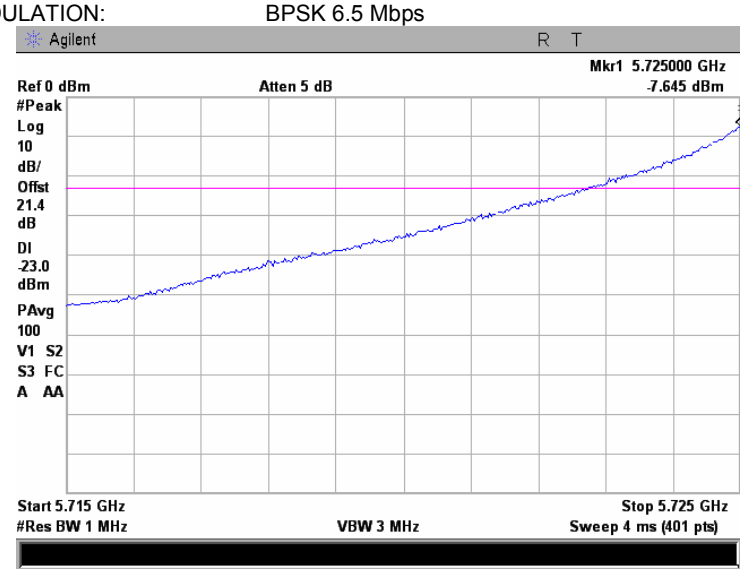
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5730	BPSK	6.5	10	-23.12	6.0	-17.12	-17.0	-0.12	Pass
5714.71					-51.51	6.0	-45.51	-27.0	-18.51	Pass
5724.50		64QAM	65		-23.30	6.0	-17.30	-17.0	-0.30	Pass
5713.28					-51.65	6.0	-45.65	-27.0	-18.65	Pass
Low channel In-Band										
5724.50	5735	BPSK	6.5	10	-29.22	6.0	-23.22	-17.0	-6.22	Pass
5714.71					-42.10	6.0	-36.10	-27.0	-9.10	Pass
5724.50		64QAM	65		-27.49	6.0	-21.49	-17.0	-4.49	Pass
5715.00					-41.56	6.0	-35.56	-27.0	-8.56	Pass
High channel In-Band										
5825.50	5815	BPSK	6.5	10	-32.00	6.0	-26.00	-17.0	-9.00	Pass
5835.00					-45.41	6.0	-39.41	-27.0	-12.41	Pass
5825.50		64QAM	65		-31.60	6.0	-25.60	-17.0	-8.60	Pass
5835.00					-47.41	6.0	-41.41	-27.0	-14.41	Pass
High channel Band Edge										
5825.50	5820	BPSK	6.5	10	-25.59	6.0	-19.59	-17.0	-2.59	Pass
5835.00					-52.26	6.0	-46.26	-27.0	-19.26	Pass
5825.50		64QAM	65		-25.62	6.0	-19.62	-17.0	-2.62	Pass
5835.00					-52.48	6.0	-46.48	-27.0	-19.48	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

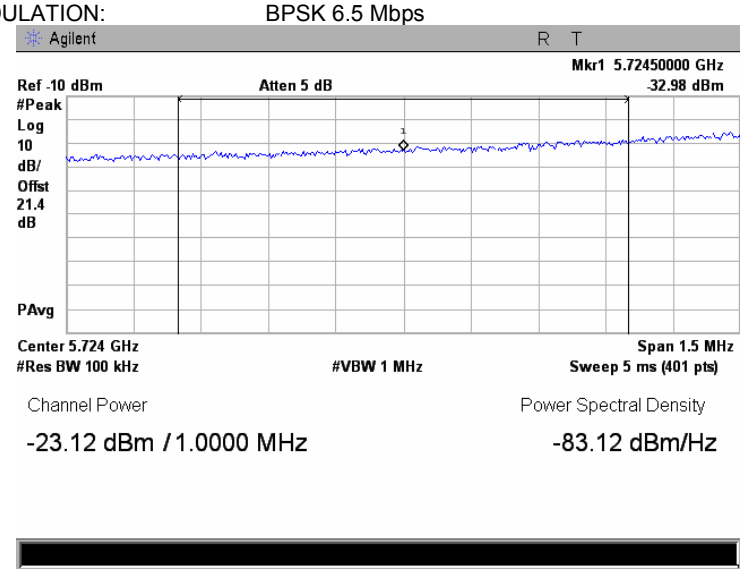
Plot 7.4.49 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.50 Conducted spurious emission measurements at the band edge

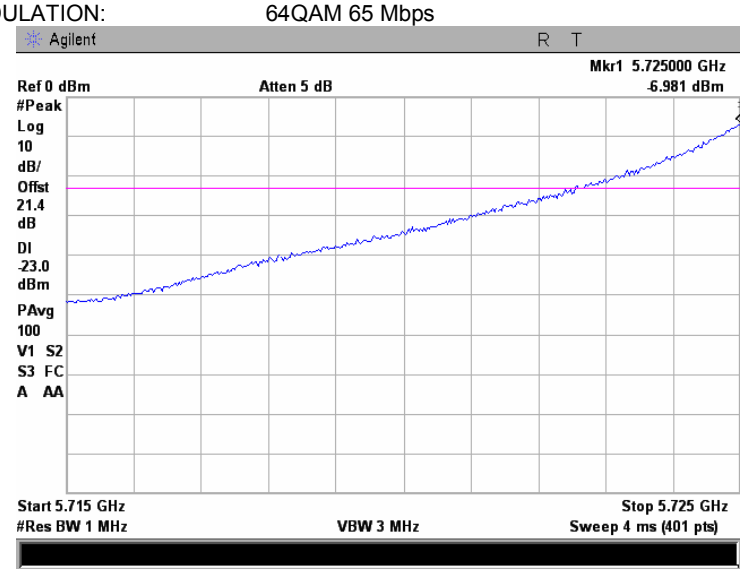
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

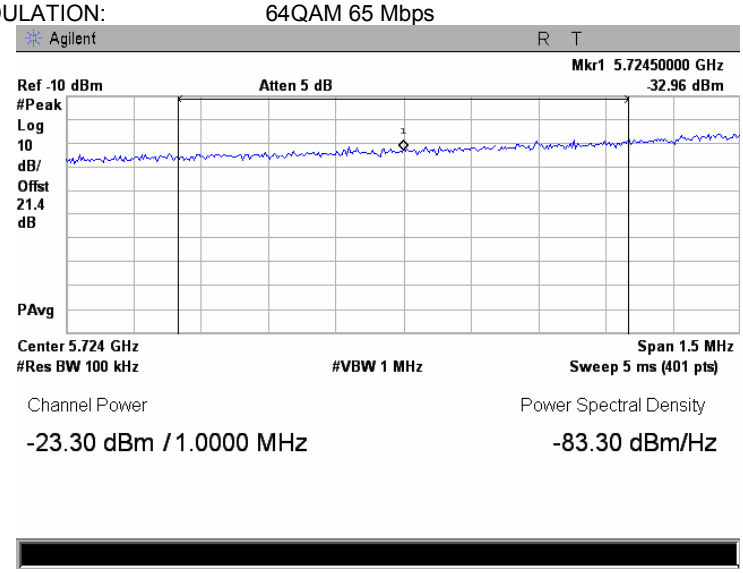
Plot 7.4.51 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.52 Conducted spurious emission measurements at the band edge

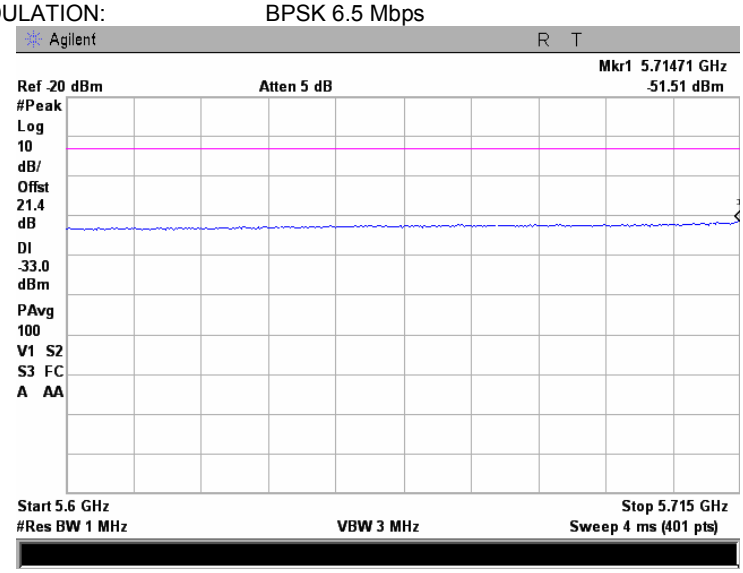
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

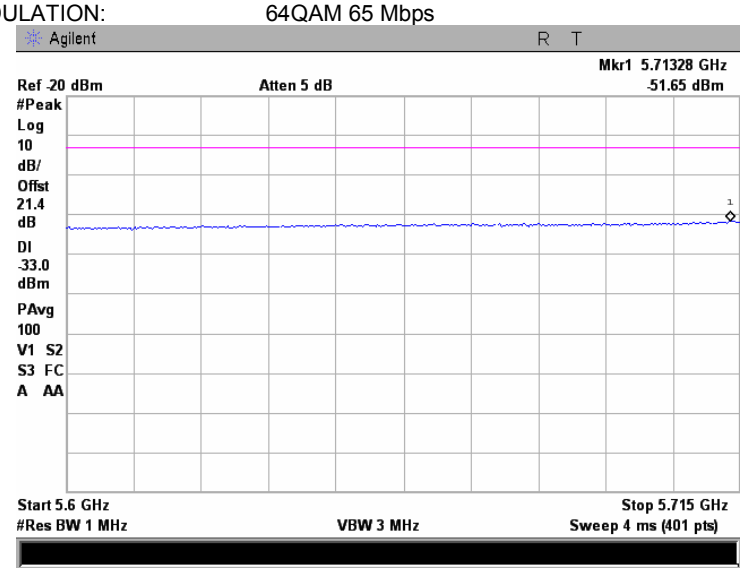
Plot 7.4.53 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.54 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

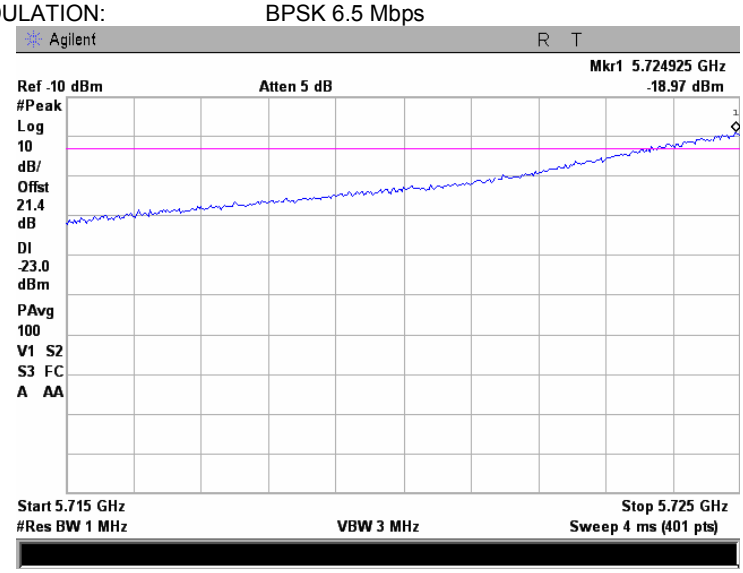
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

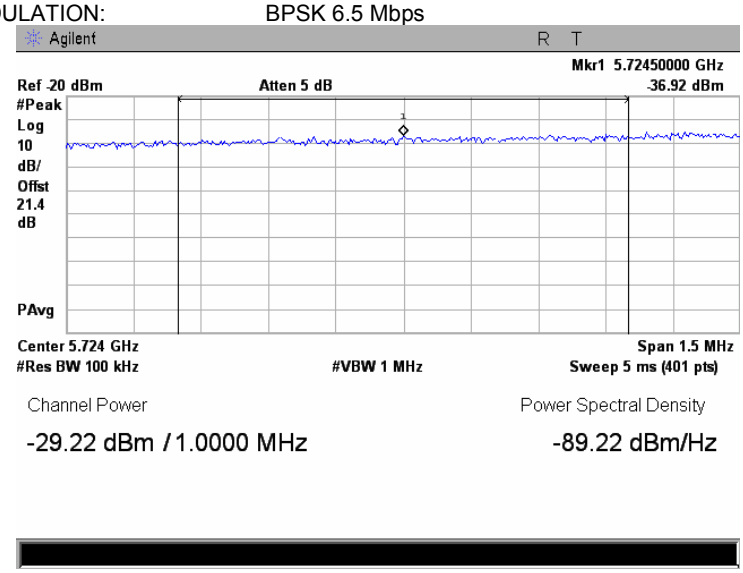
Plot 7.4.55 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.56 Conducted spurious emission measurements at the band edge

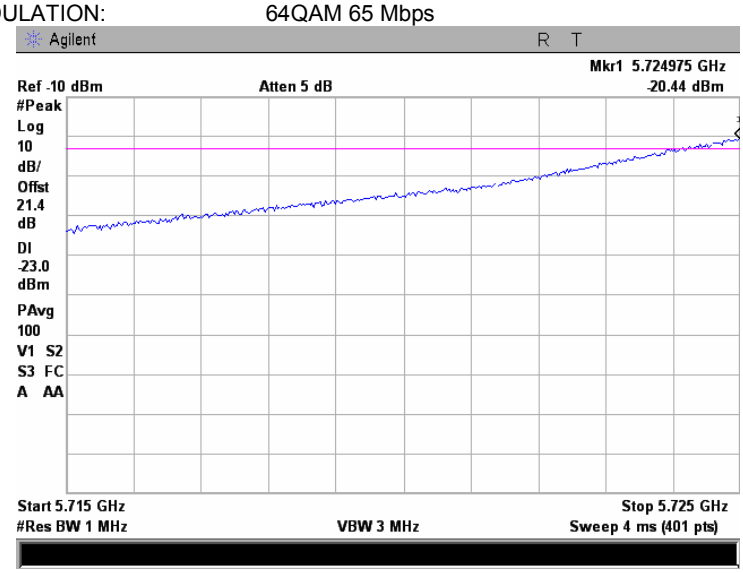
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

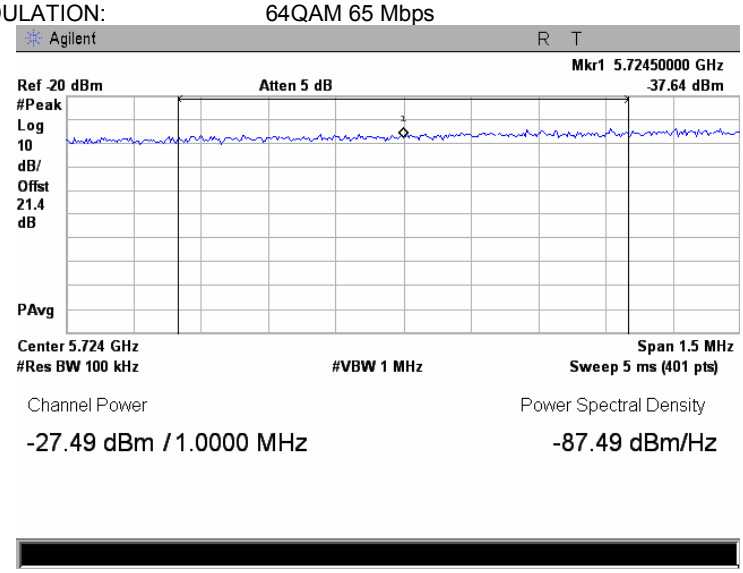
Plot 7.4.57 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.58 Conducted spurious emission measurements at the band edge

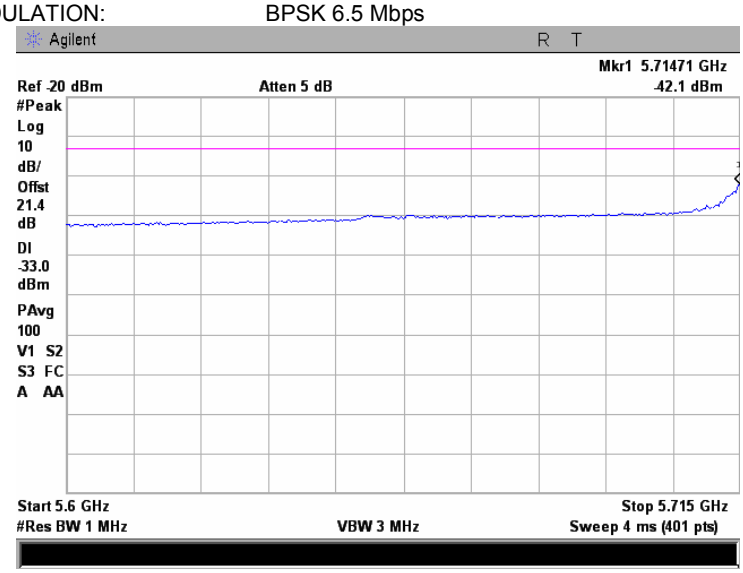
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

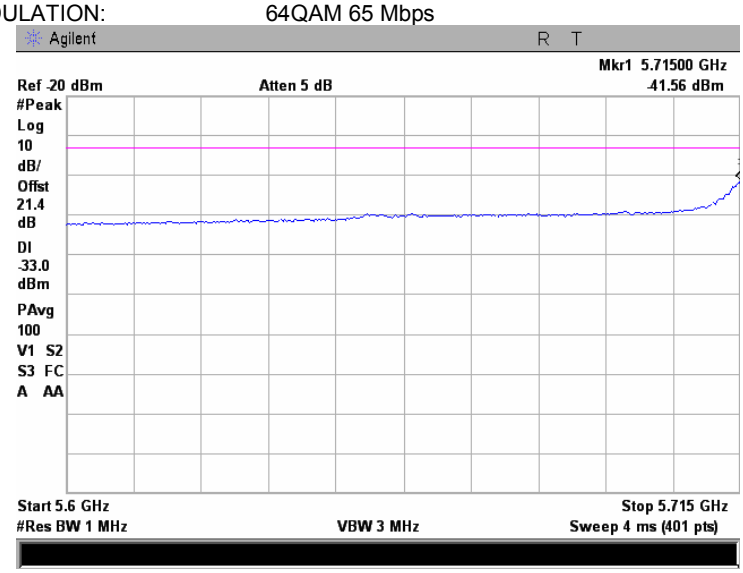
Plot 7.4.59 Conducted spurious emission measurements in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.60 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

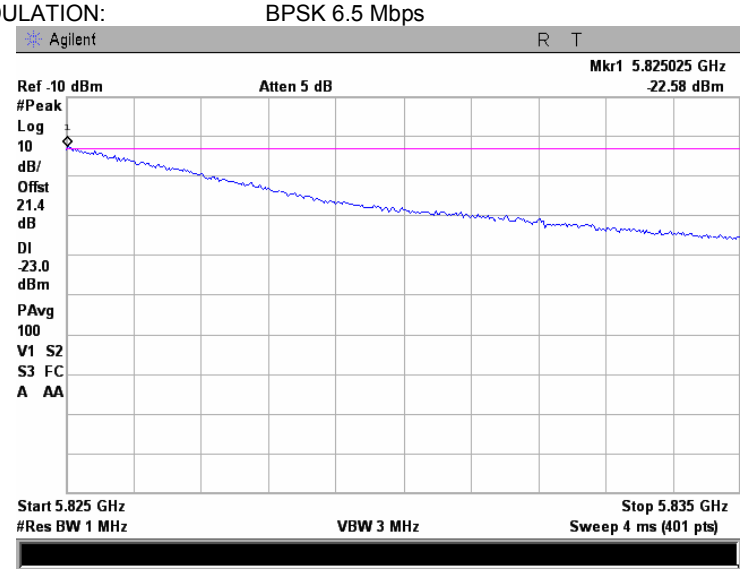
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

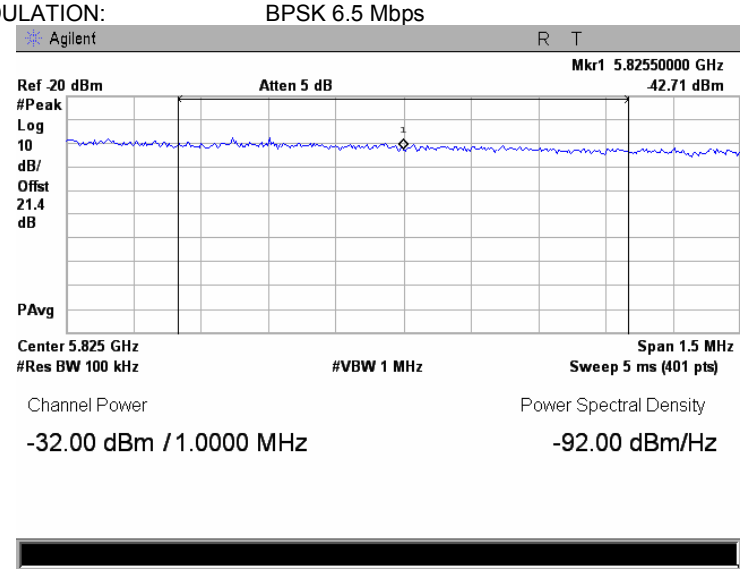
Plot 7.4.61 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.62 Conducted spurious emission measurements at the band edge

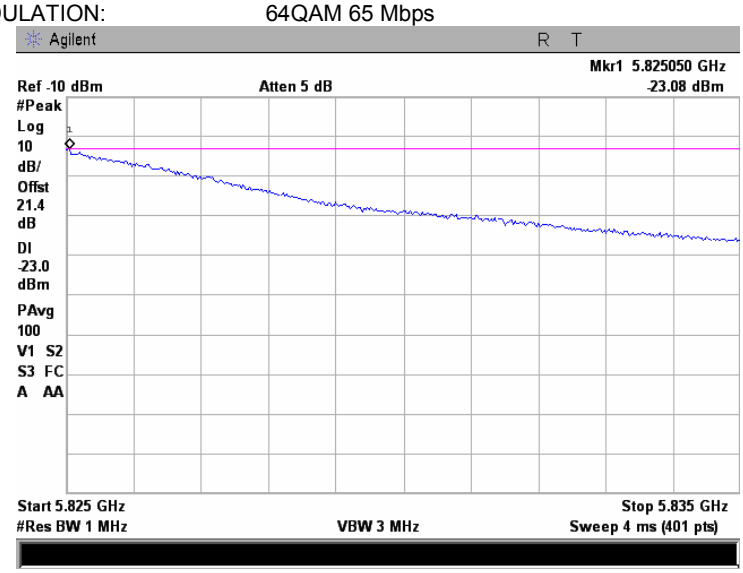
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

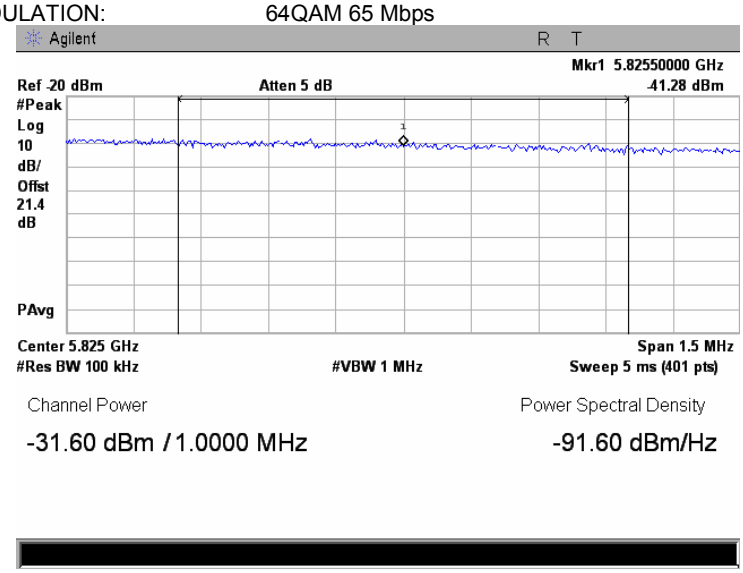
Plot 7.4.63 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.64 Conducted spurious emission measurements at the band edge

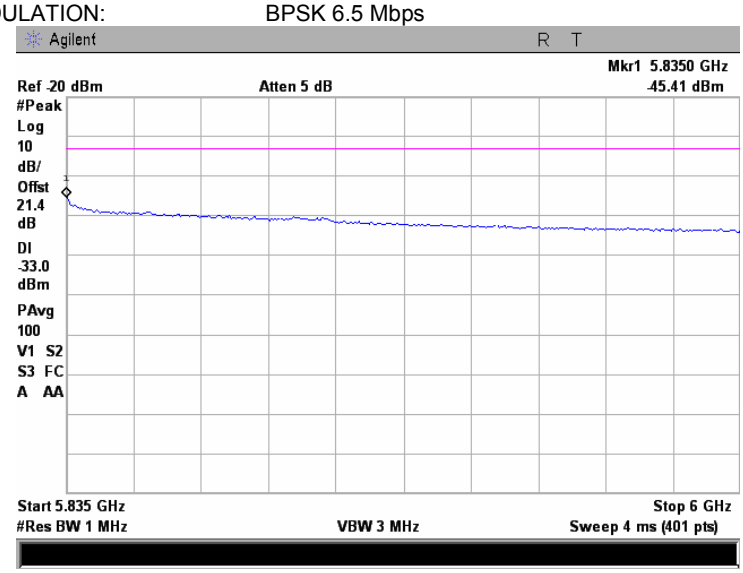
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

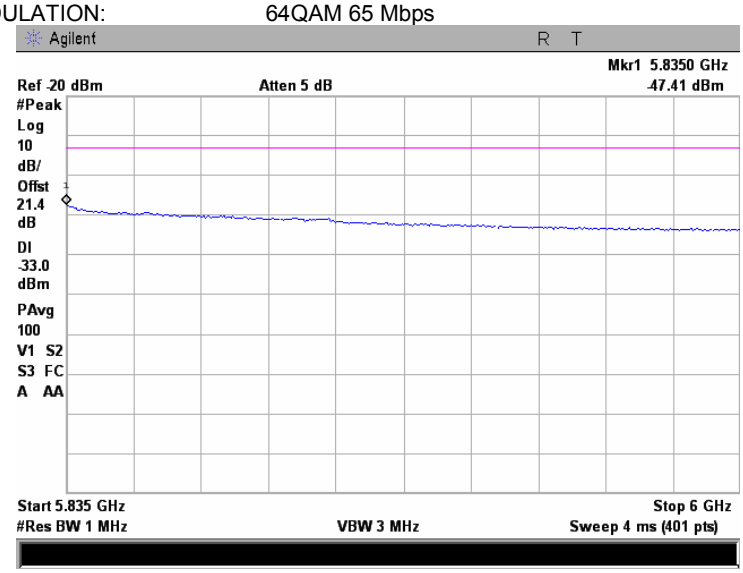
Plot 7.4.65 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.66 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

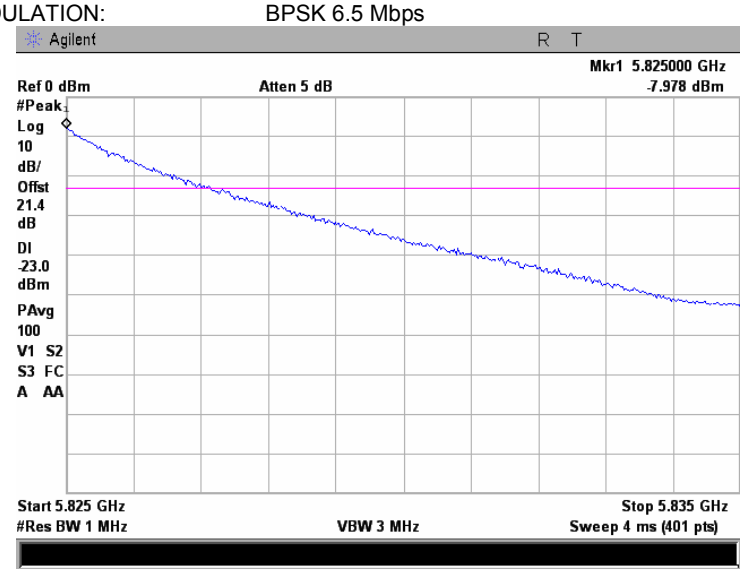
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

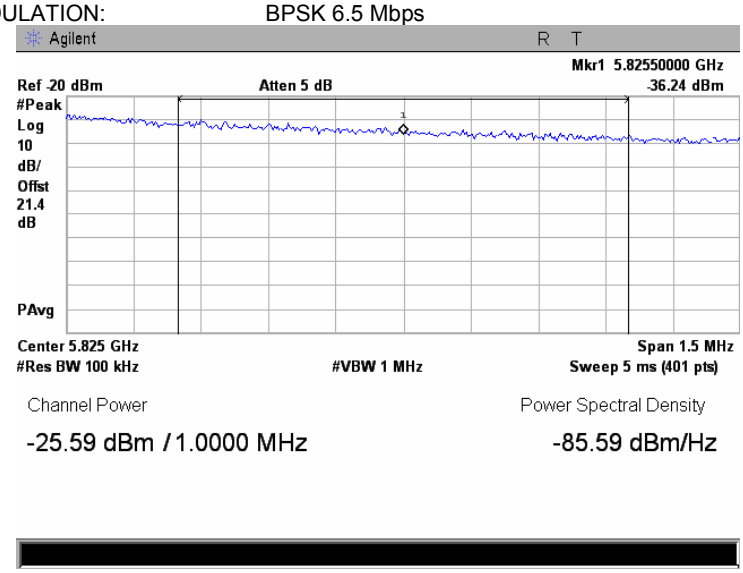
Plot 7.4.67 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.68 Conducted spurious emission measurements at the band edge

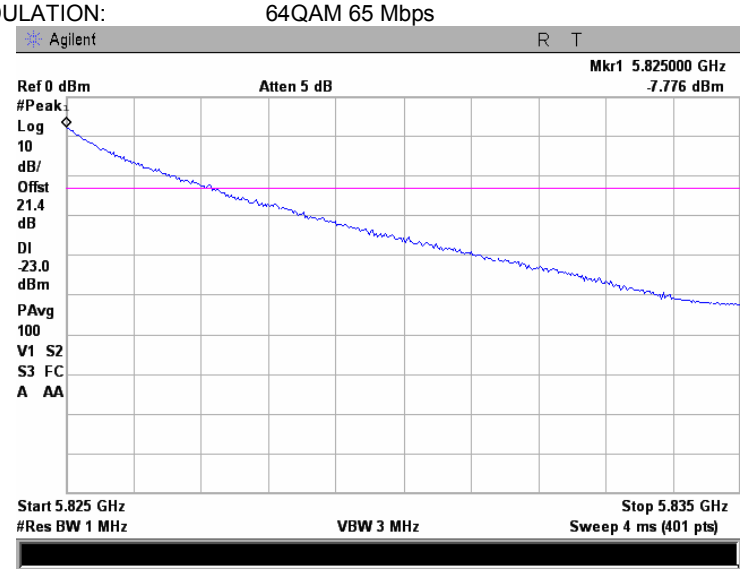
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2009		
Temperature: 24ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

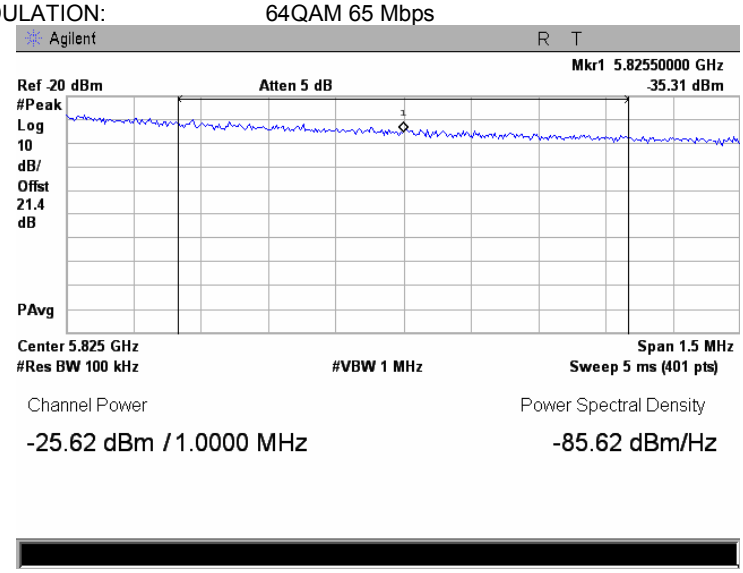
Plot 7.4.69 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.70 Conducted spurious emission measurements at the band edge

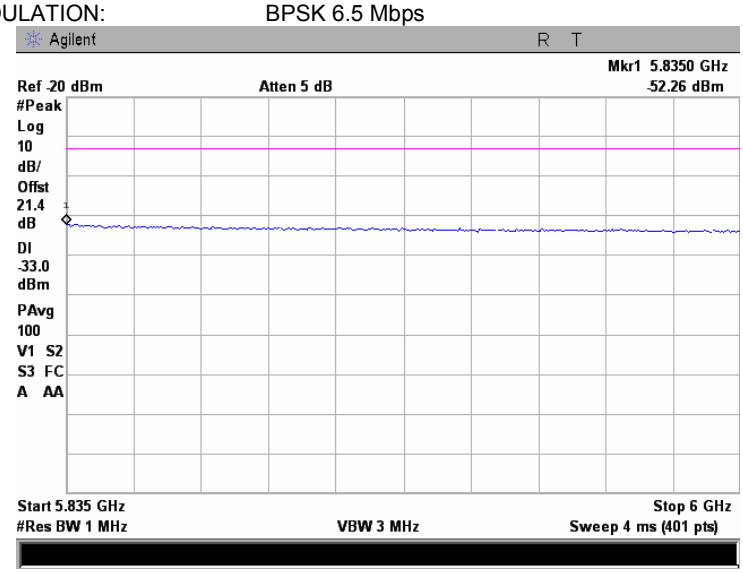
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

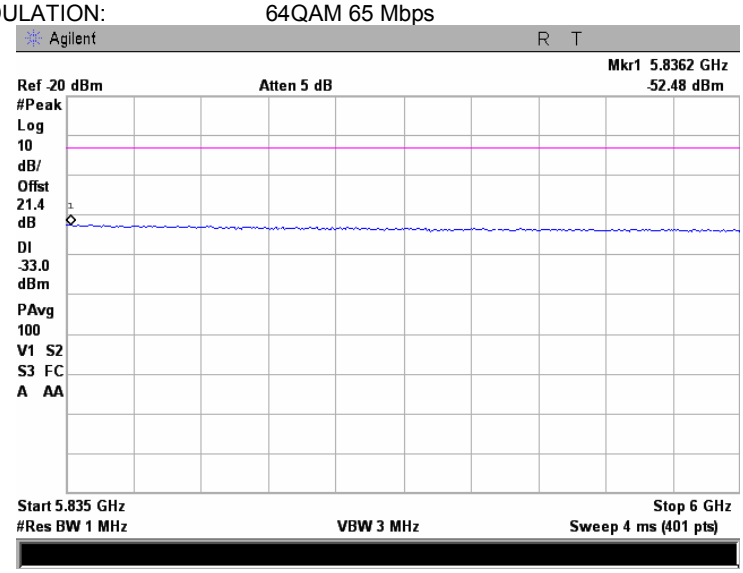
Plot 7.4.71 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.72 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

Table 7.4.5 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak, 100 Power averaging
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 6.0 dBi
EMISSION BANDWIDTH 5 MHz

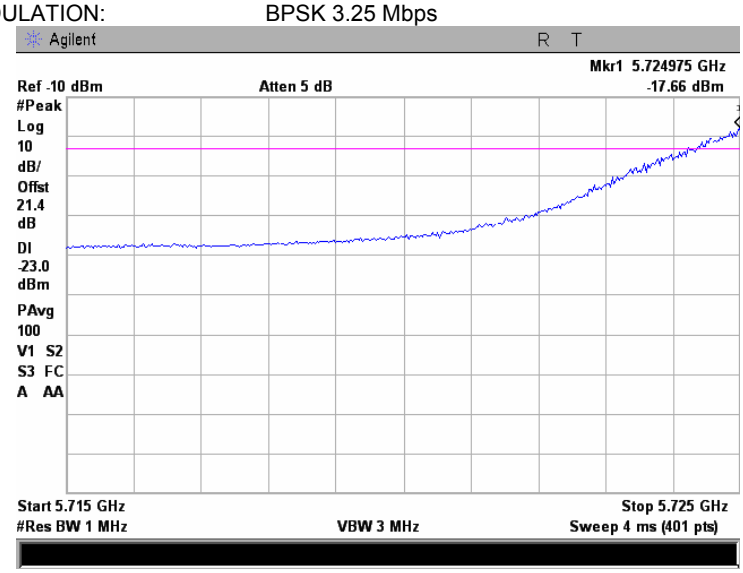
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5730	BPSK	3.25	5	-29.97	6.0	-23.97	-17.0	-6.97	Pass
5691.71					-42.11	6.0	-36.11	-27.0	-9.11	Pass
5724.50		64QAM	32.5		-30.02	6.0	-24.02	-17.0	-7.02	Pass
5691.71					-42.47	6.0	-36.47	-27.0	-9.47	Pass
High channel Band Edge										
5825.50	5820	BPSK	3.25	5	-32.95	6.0	-26.95	-17.0	-9.95	Pass
5858.50					-45.31	6.0	-39.31	-27.0	-12.31	Pass
5825.50		64QAM	32.5		-32.58	6.0	-26.58	-17.0	-9.58	Pass
5858.50					-43.88	6.0	-37.88	-27.0	-10.88	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

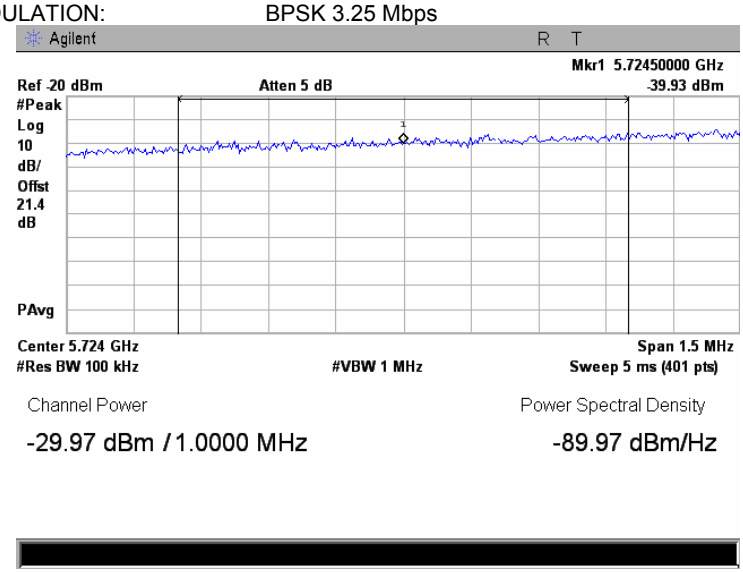
Plot 7.4.73 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.74 Conducted spurious emission measurements at the band edge

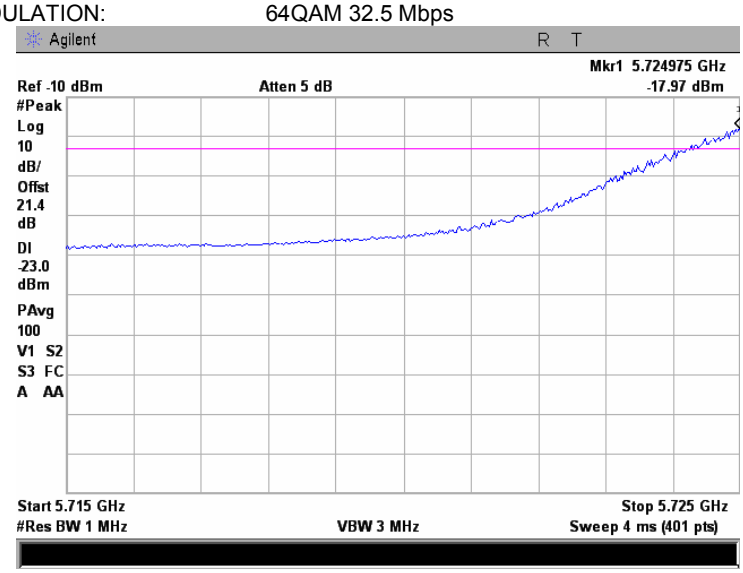
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

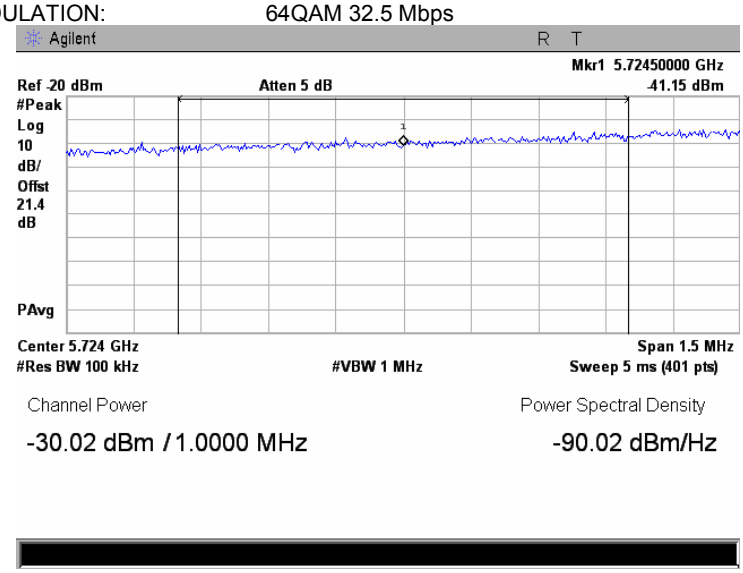
Plot 7.4.75 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.76 Conducted spurious emission measurements at the band edge

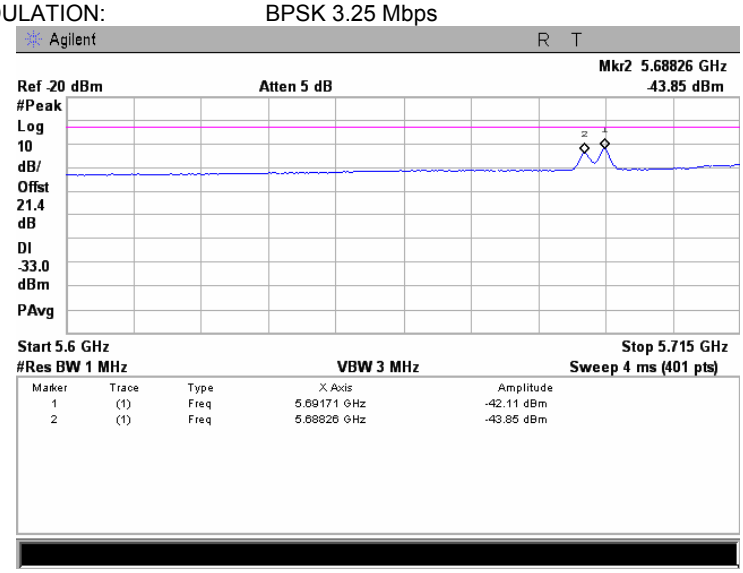
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

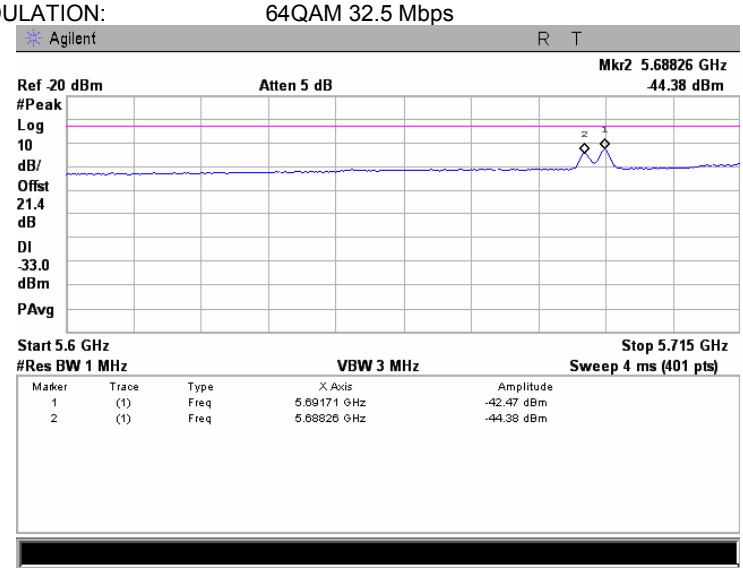
Plot 7.4.77 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.78 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

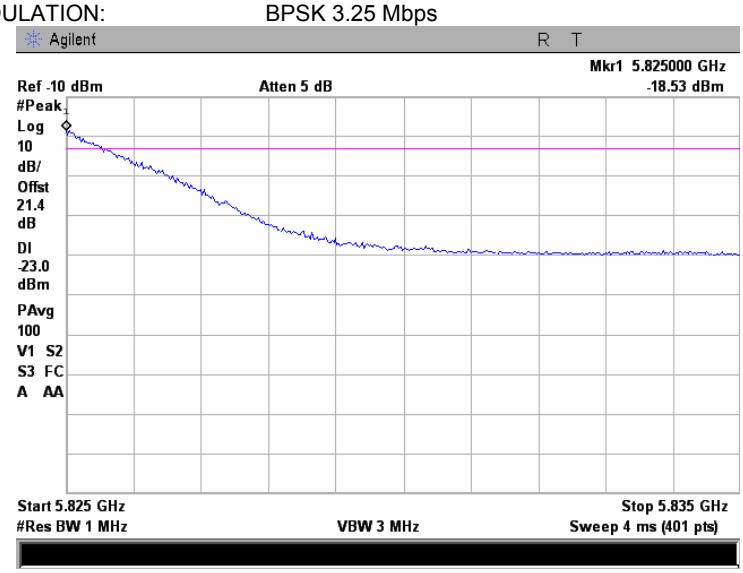
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

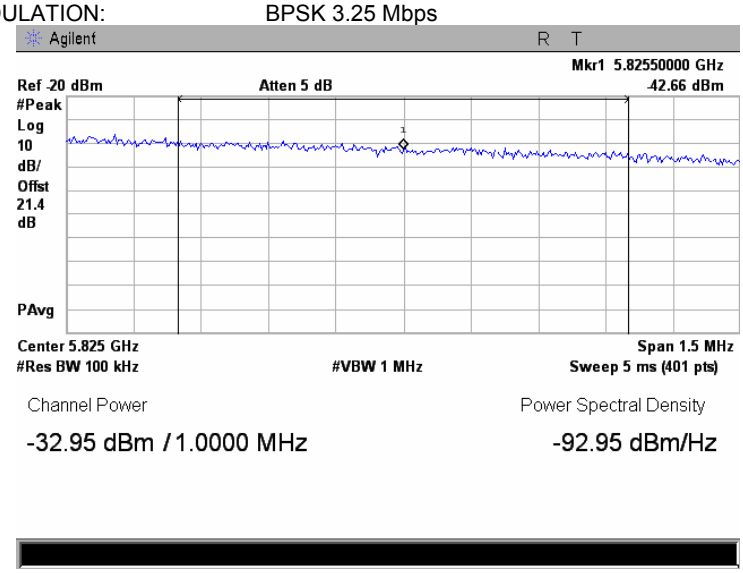
Plot 7.4.79 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.80 Conducted spurious emission measurements at the band edge

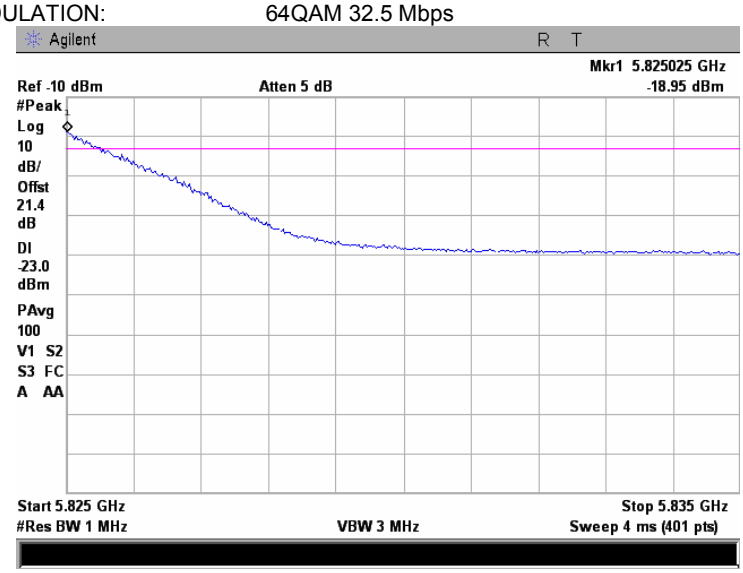
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

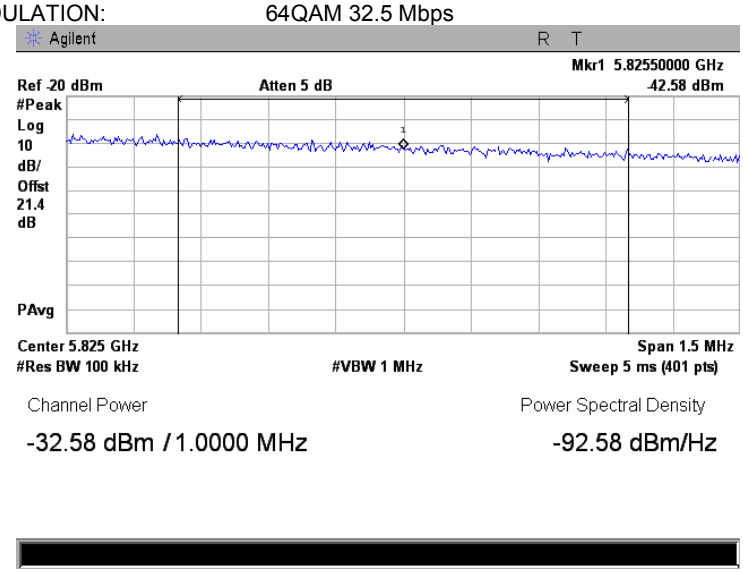
Plot 7.4.81 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.82 Conducted spurious emission measurements at the band edge

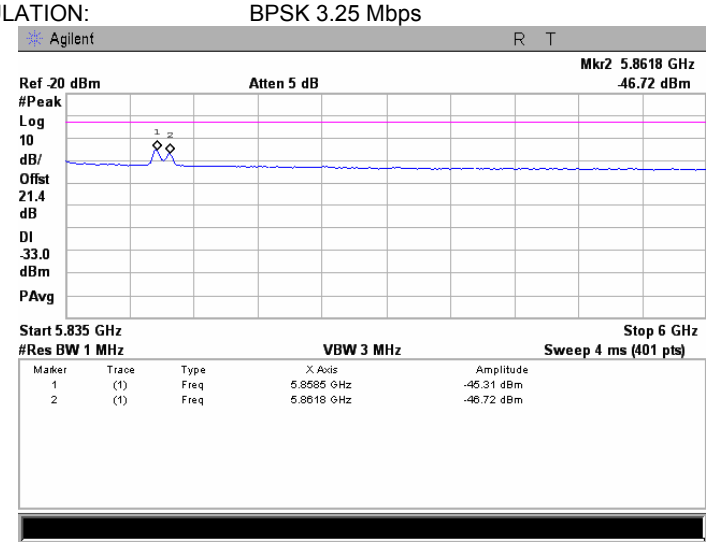
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 6 dBi antenna assembly gain			

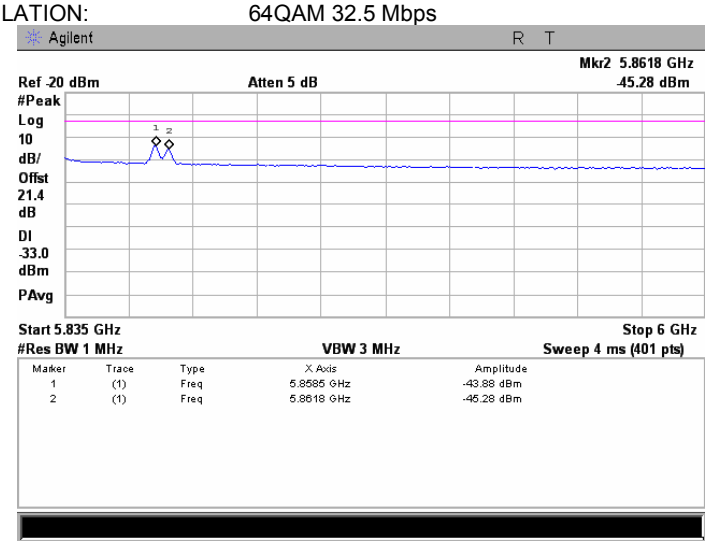
Plot 7.4.83 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.84 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.4.6 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 22.5 dBi
EMISSION BANDWIDTH 40 MHz

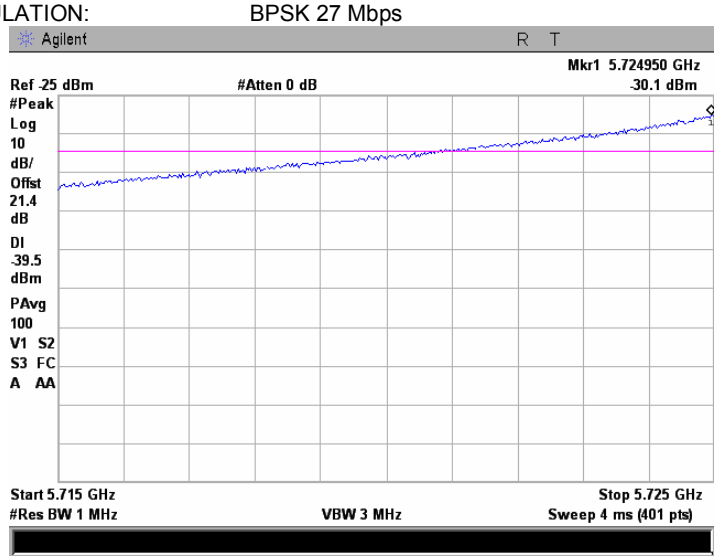
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel Band Edge										
5724.50	5745.0	BPSK	27	40	-39.74	22.5	-17.24	-17.0	-0.24	Pass
5714.50					-55.72	22.5	-33.22	-27.0	-6.22	Pass
5724.50		64QAM	270		-39.76	22.5	-17.26	-17.0	-0.26	Pass
5714.50					-55.66	22.5	-33.16	-27.0	-6.16	Pass
Mid channel										
5724.95	5775.0	BPSK	27	40	-41.98	22.5	-19.48	-17.0	-2.48	Pass
5714.50					-49.66	22.5	-27.16	-27.0	-0.16	Pass
5274.67					-41.02	22.5	-18.52	-17.0	-1.52	Pass
5714.50					-49.86	22.5	-27.36	-27.0	-0.36	Pass
5825.47		64QAM	270		-42.48	22.5	-19.98	-17.0	-2.98	Pass
5835.50					-51.53	22.5	-29.03	-27.0	-2.03	Pass
5825.10					-44.16	22.5	-21.66	-17.0	-4.66	Pass
5835.50					-52.35	22.5	-29.85	-27.0	-2.85	Pass
High channel Band edge										
5825.50	5805.0	BPSK	27	40	-41.94	22.5	-19.44	-17.0	-2.44	Pass
5835.00					-50.63	22.5	-28.13	-27.0	-1.13	Pass
5825.50		64QAM	270		-41.86	22.5	-19.36	-17.0	-2.36	Pass
5835.00					-50.41	22.5	-27.91	-27.0	-0.91	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

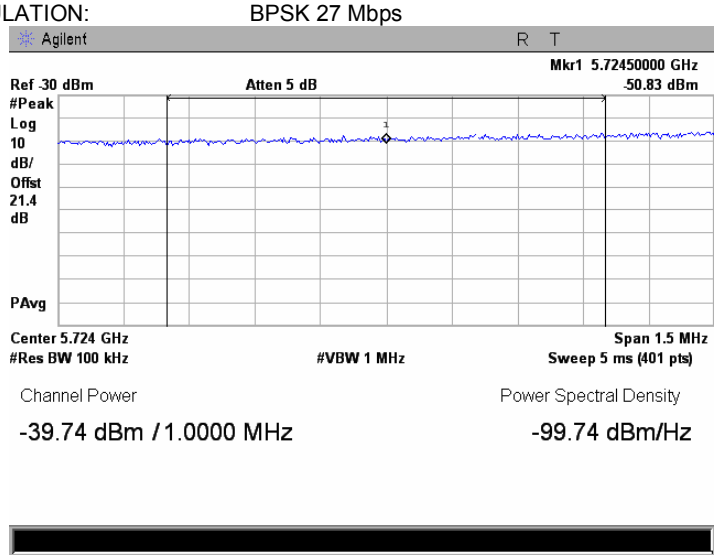
Plot 7.4.85 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.86 Conducted spurious emission measurements at the band edge

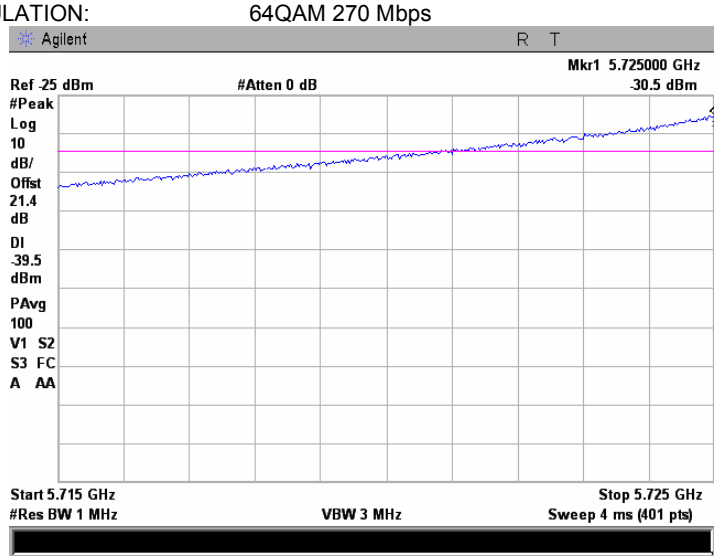
CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

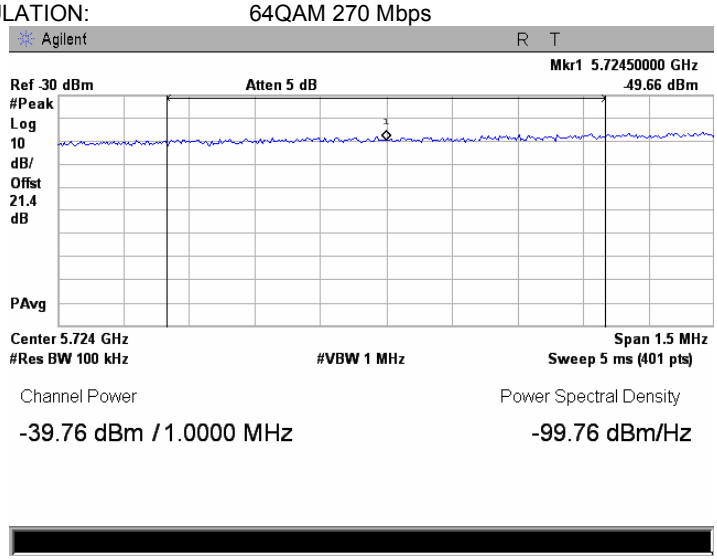
Plot 7.4.87 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.88 Conducted spurious emission measurements at the band edge

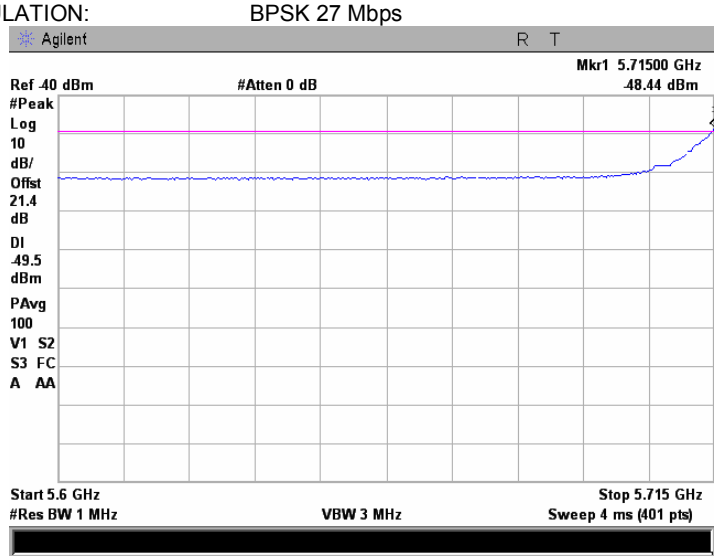
CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

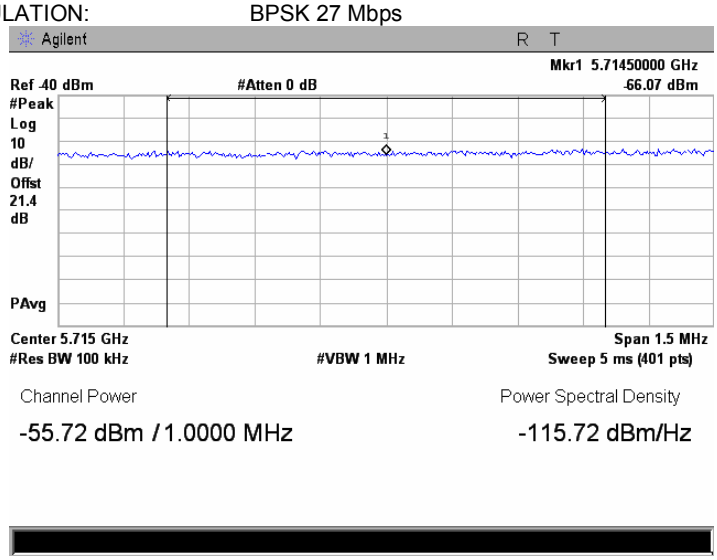
Plot 7.4.89 Conducted spurious emission measurements at the band edges in frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.90 Conducted spurious emission measurements at the band edge

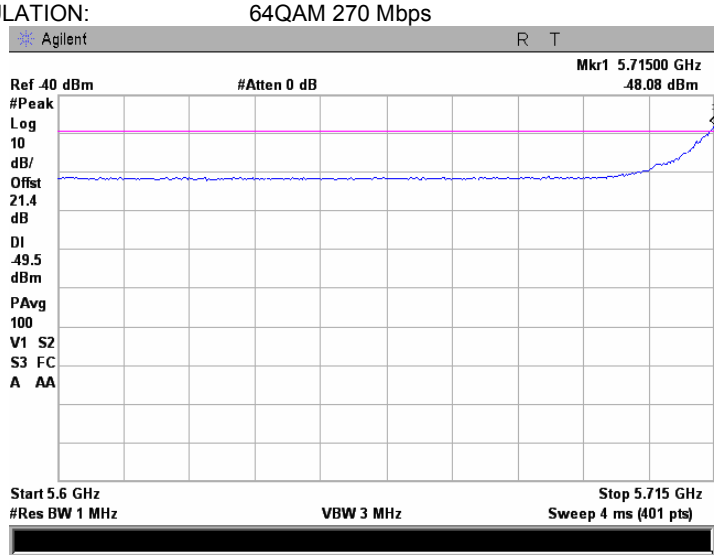
CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

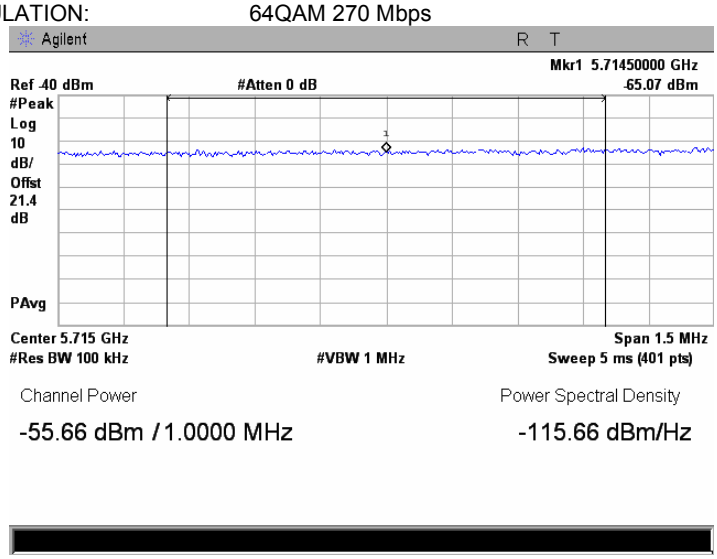
Plot 7.4.91 Conducted spurious emission measurements at the band edges in frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.92 Conducted spurious emission measurements at the band edge

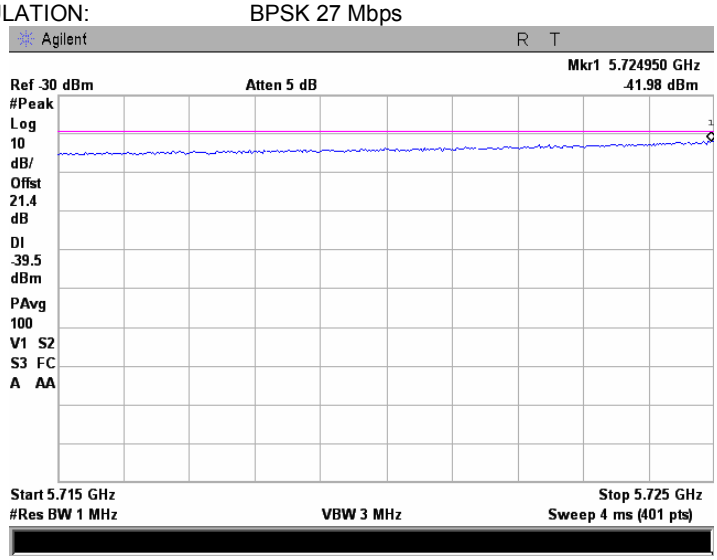
CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

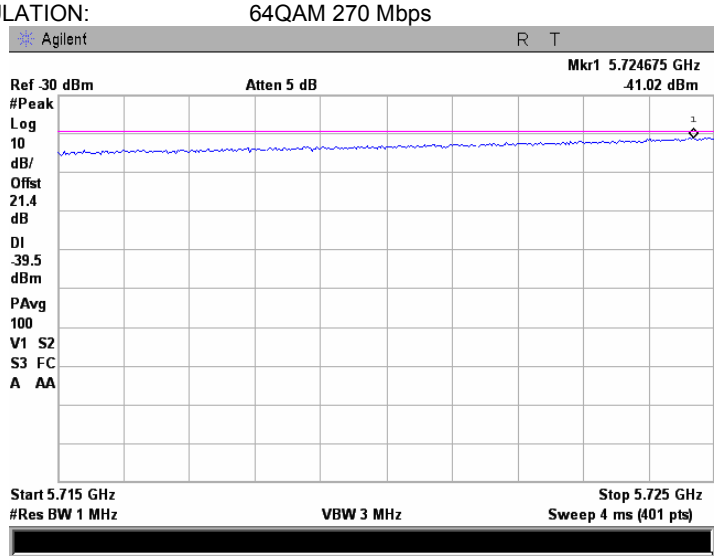
Plot 7.4.93 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.94 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

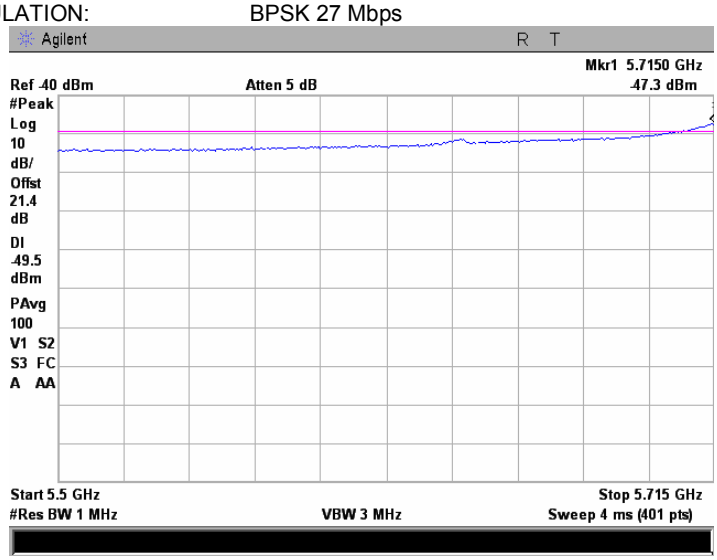
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

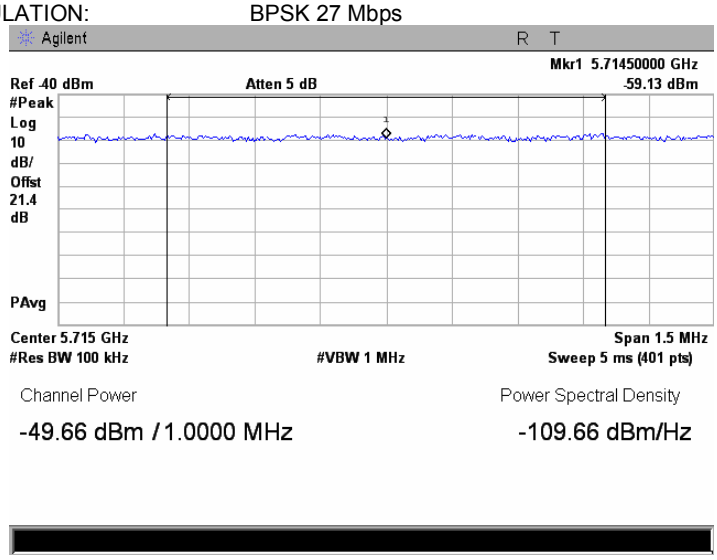
Plot 7.4.95 Conducted spurious emission measurements at the band edges in frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.96 Conducted spurious emission measurements at the band edge

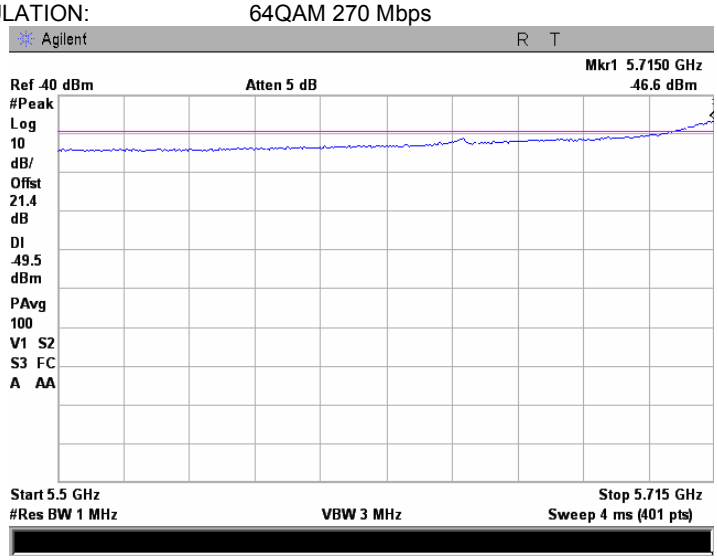
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

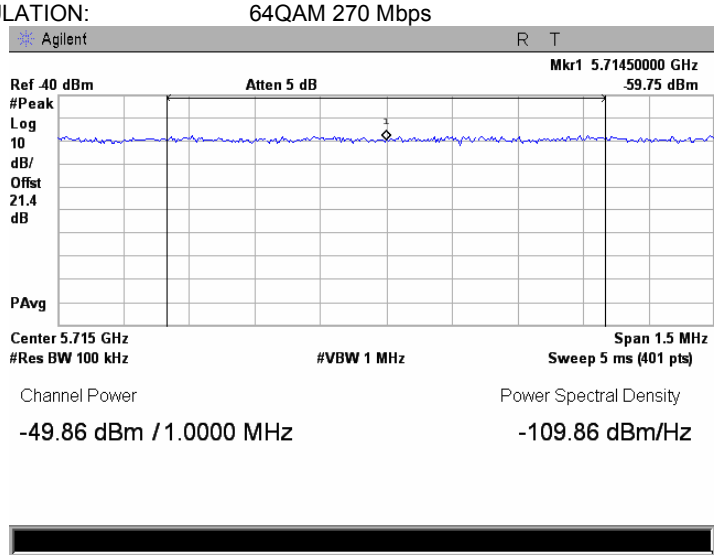
Plot 7.4.97 Conducted spurious emission measurements at the band edges in frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.98 Conducted spurious emission measurements at the band edge

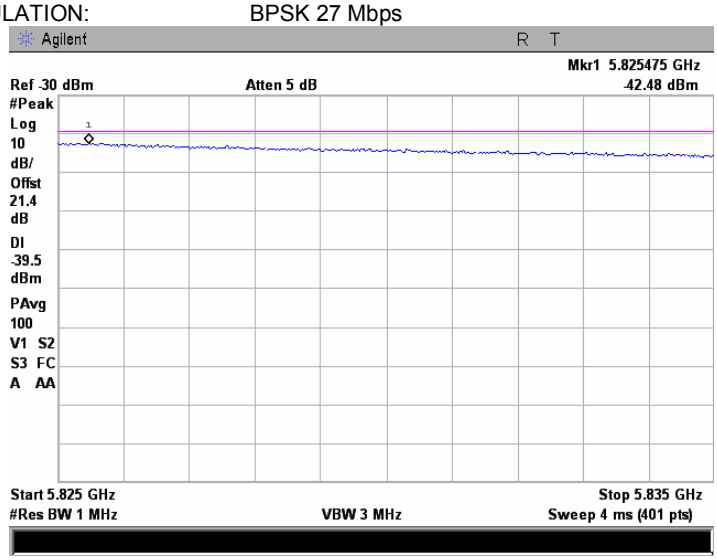
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

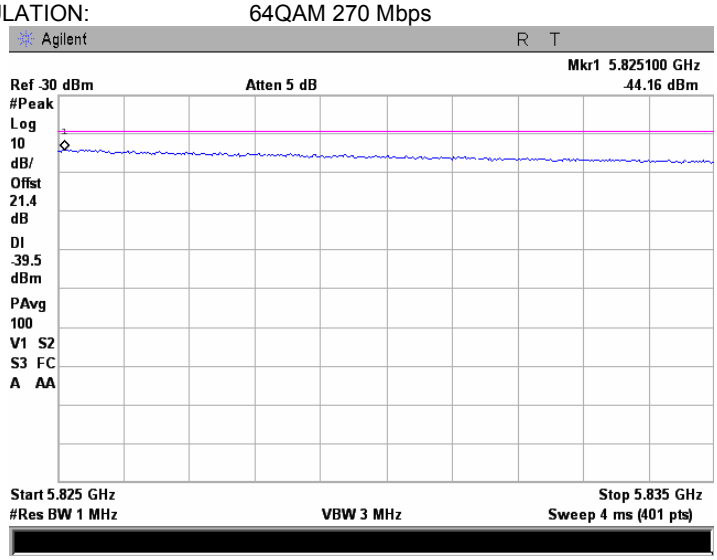
Plot 7.4.99 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.100 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

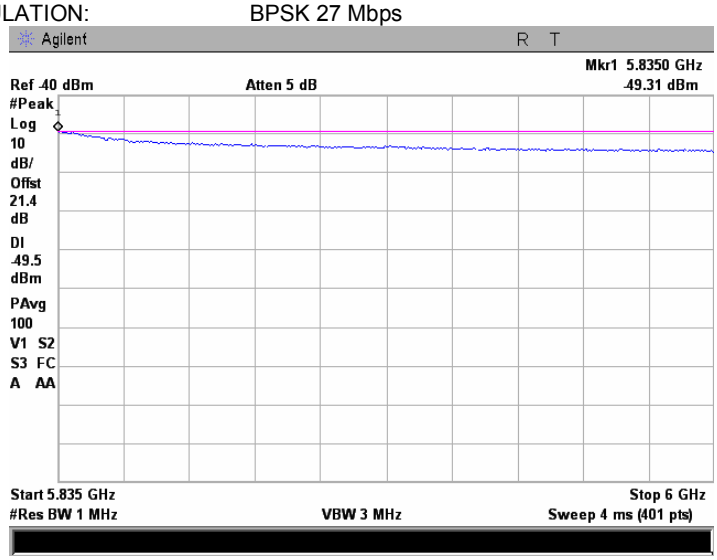
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

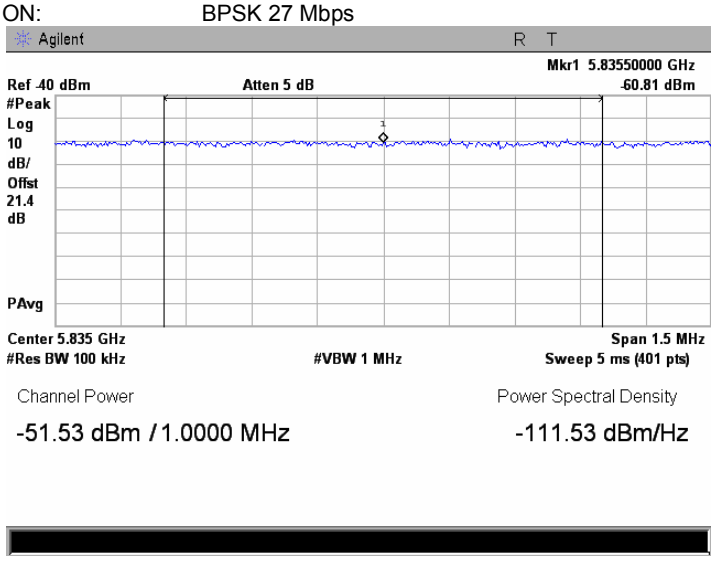
Plot 7.4.101 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.102 Conducted spurious emission measurements at the band edge

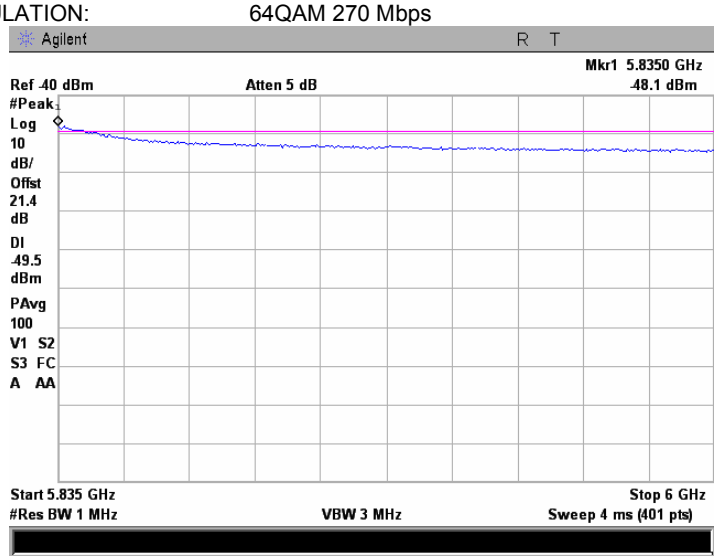
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

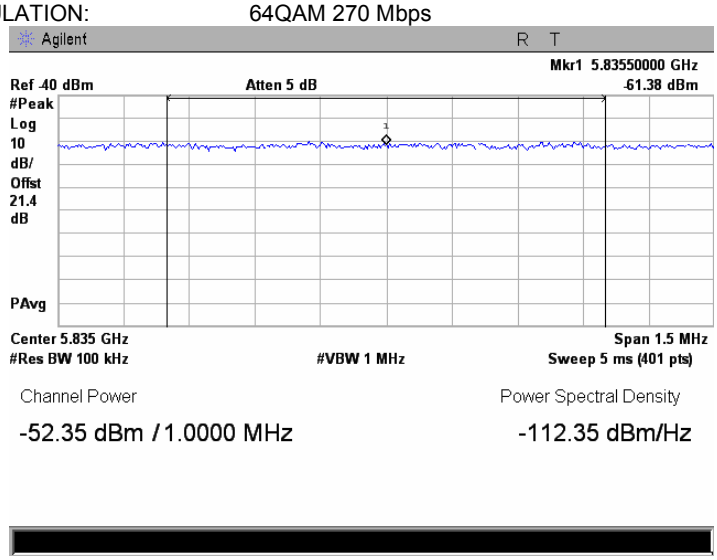
Plot 7.4.103 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.104 Conducted spurious emission measurements at the band edge

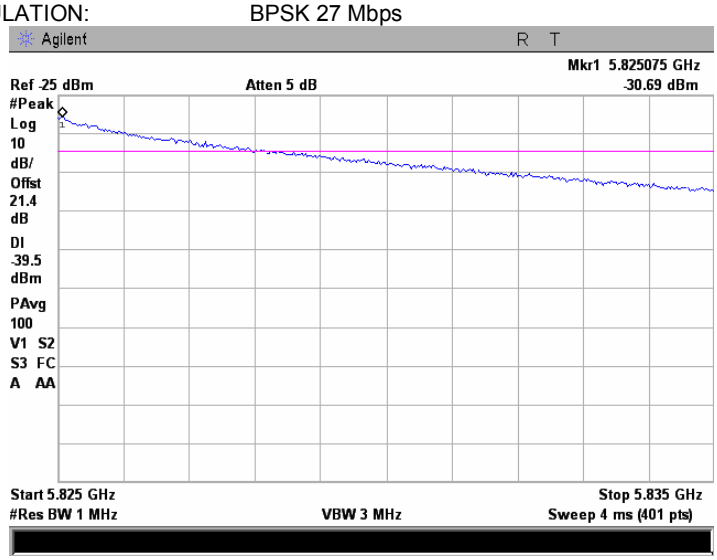
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

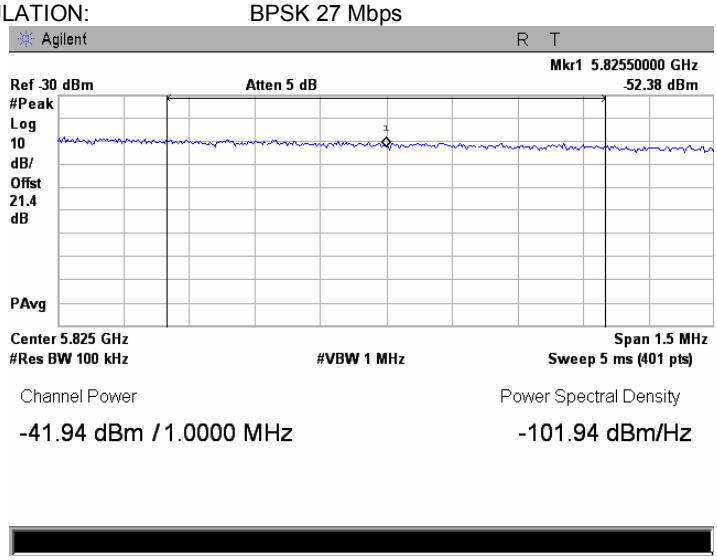
Plot 7.4.105 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.106 Conducted spurious emission measurements at the band edge

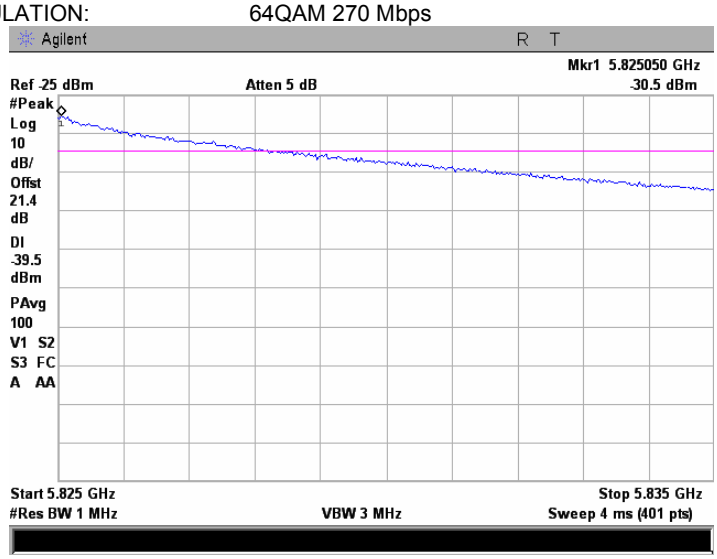
CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

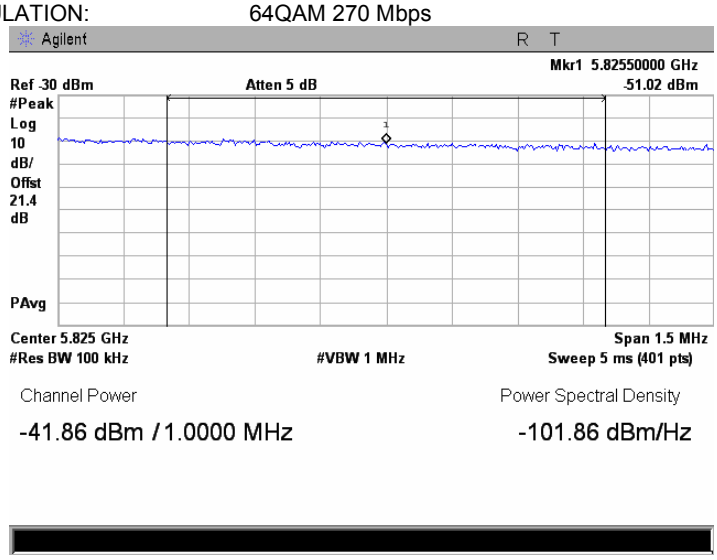
Plot 7.4.107 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.108 Conducted spurious emission measurements at the band edge

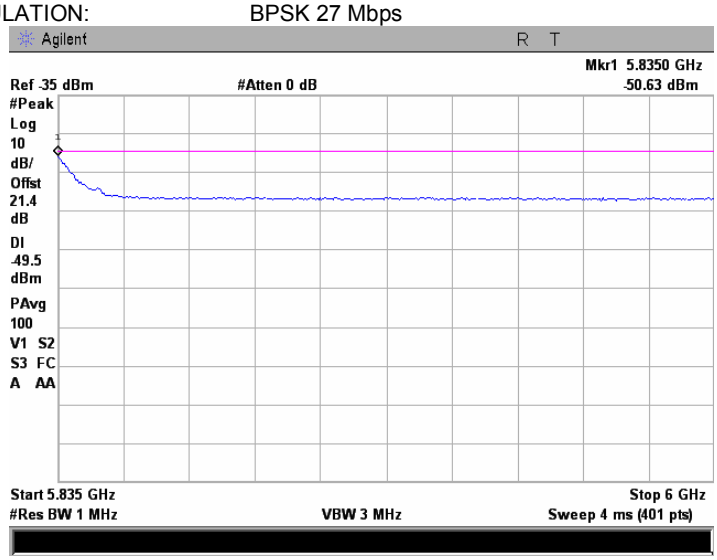
CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

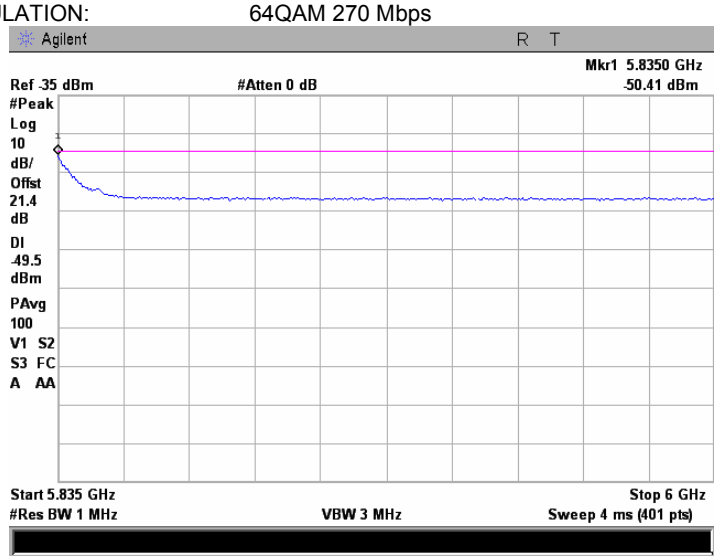
Plot 7.4.109 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.110 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.4.7 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 22.5 dBi
EMISSION BANDWIDTH 20 MHz

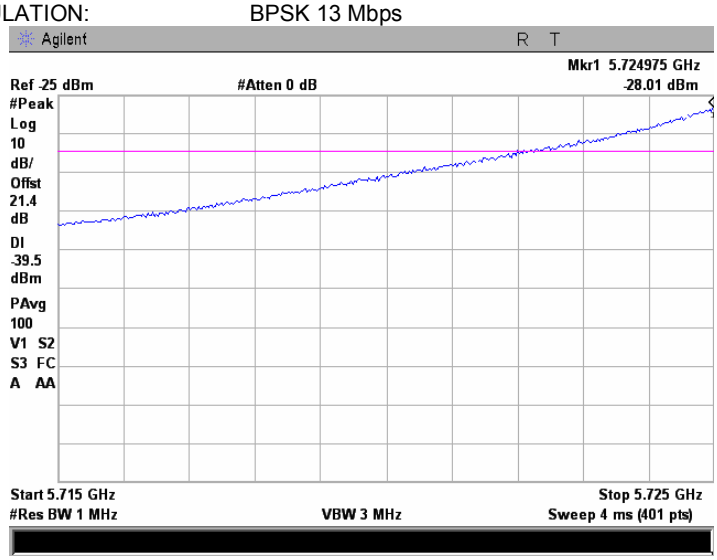
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5735	BPSK	13	20	-39.62	22.5	-17.12	-17.0	-0.12	Pass
5715.00					-59.01	22.5	-36.51	-27.0	-9.51	Pass
5724.50		64QAM	130		-39.64	22.5	-17.14	-17.0	-0.14	Pass
5715.00					-58.68	22.5	-36.18	-27.0	-9.18	Pass
Low channel In-Band										
5724.50	5755	BPSK	13	20	-43.87	22.5	-21.37	-17.0	-4.37	Pass
5714.50					-50.10	22.5	-27.60	-27.0	-0.60	Pass
5724.50		64QAM	130		-43.46	22.5	-20.96	-17.0	-3.96	Pass
5714.50					-50.17	22.5	-27.67	-27.0	-0.67	Pass
High channel In-Band										
5825.10	5795	BPSK	13	20	-41.83	22.5	-19.33	-17.0	-2.33	Pass
5835.50					-53.06	22.5	-30.56	-27.0	-3.56	Pass
5825.12		64QAM	130		-41.82	22.5	-19.32	-17.0	-2.32	Pass
5835.50					-52.99	22.5	-30.49	-27.0	-3.49	Pass
High channel Band Edge										
5825.50	5815	BPSK	13	20	-41.43	22.5	-18.93	-17.0	-1.93	Pass
5835.00					-59.94	22.5	-37.44	-27.0	-10.44	Pass
5825.50		64QAM	130		-41.18	22.5	-18.68	-17.0	-1.68	Pass
5835.00					-59.93	22.5	-37.43	-27.0	-10.43	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

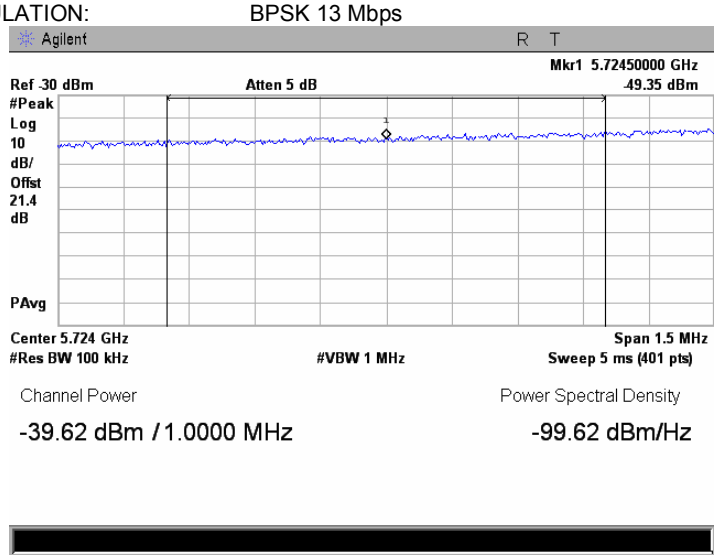
Plot 7.4.111 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.112 Conducted spurious emission measurements at the band edge

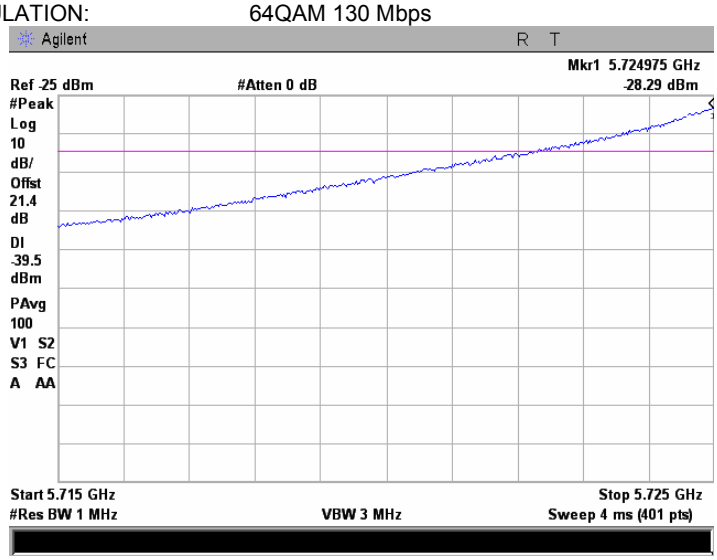
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

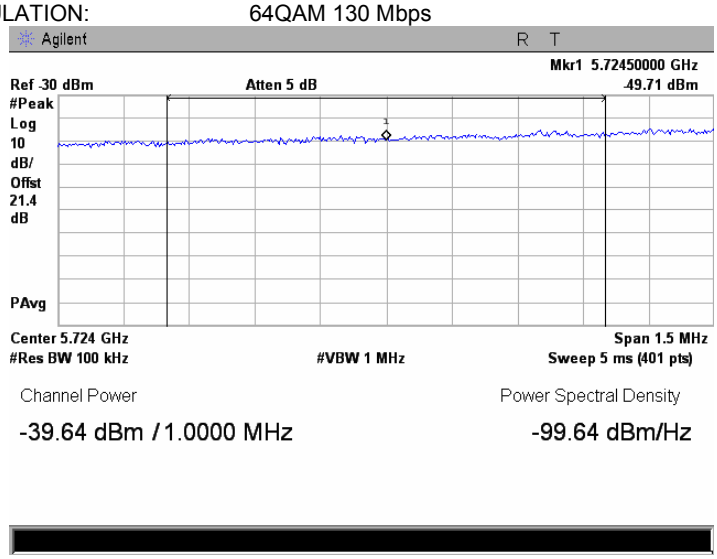
Plot 7.4.113 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.114 Conducted spurious emission measurements at the band edge

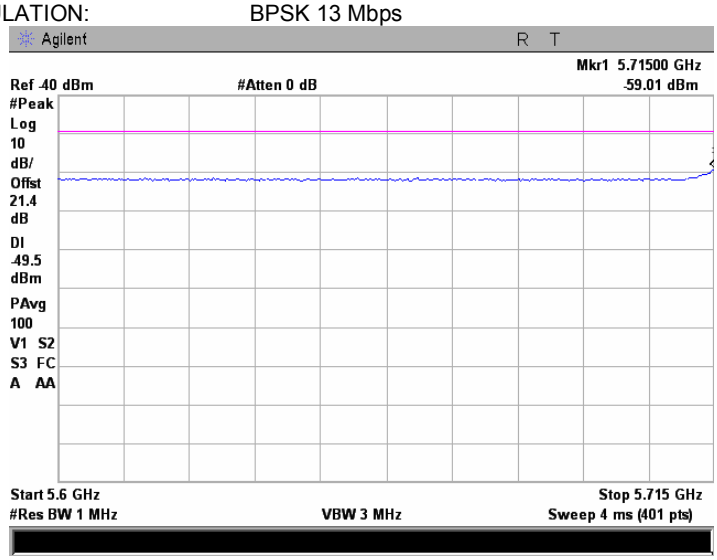
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

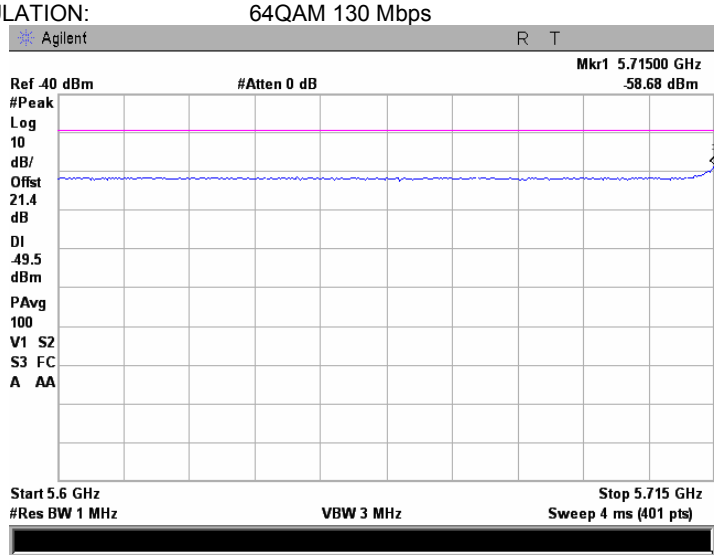
Plot 7.4.115 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.116 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

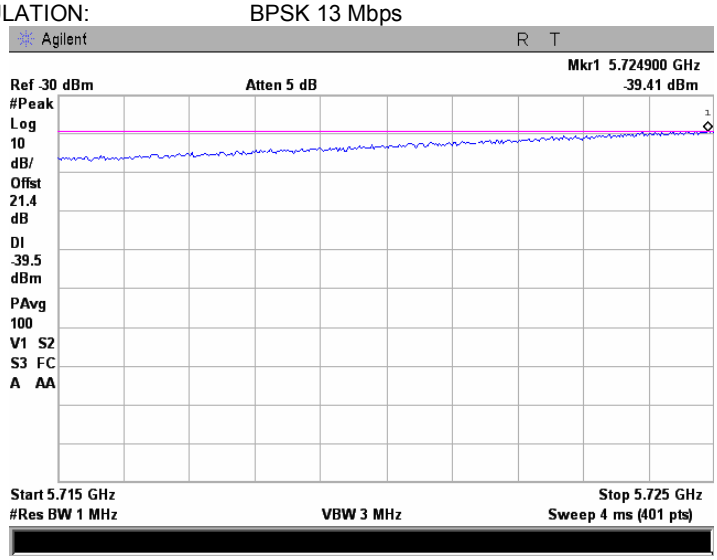
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

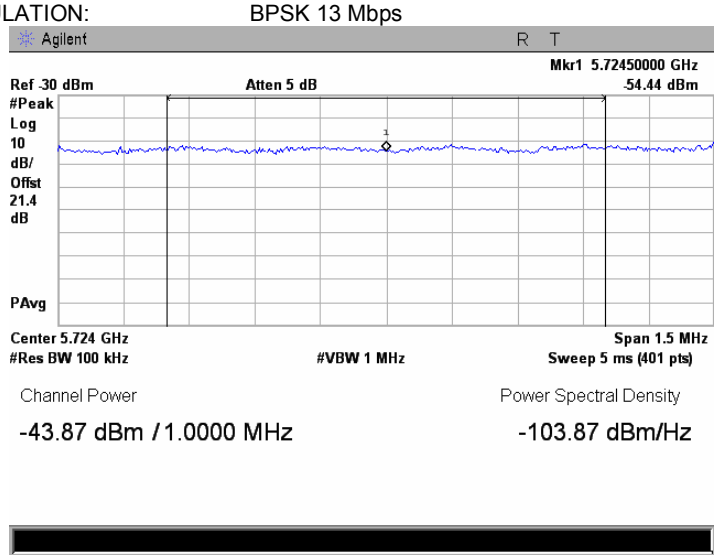
Plot 7.4.117 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.118 Conducted spurious emission measurements at the band edge

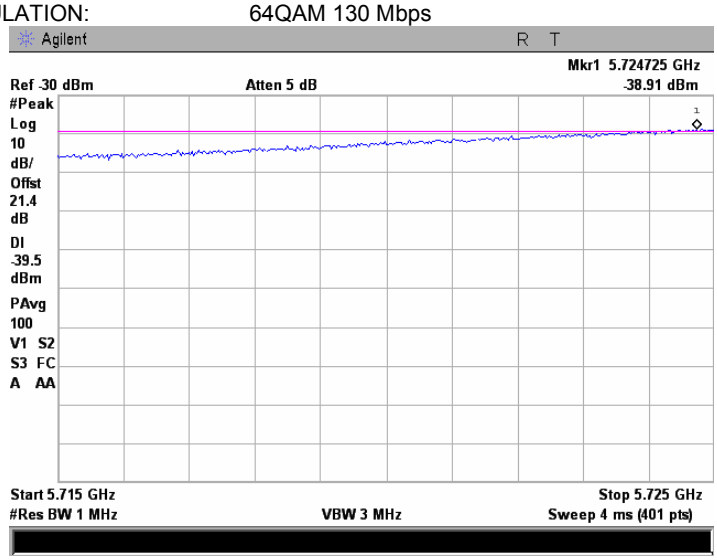
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

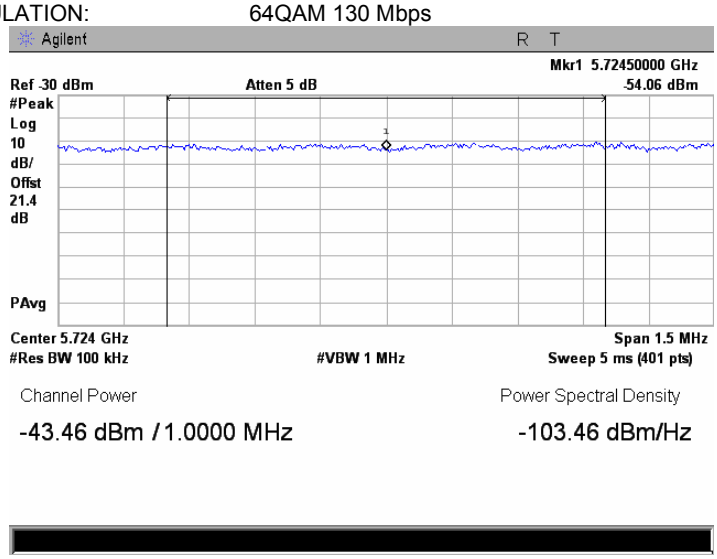
Plot 7.4.119 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.120 Conducted spurious emission measurements at the band edge

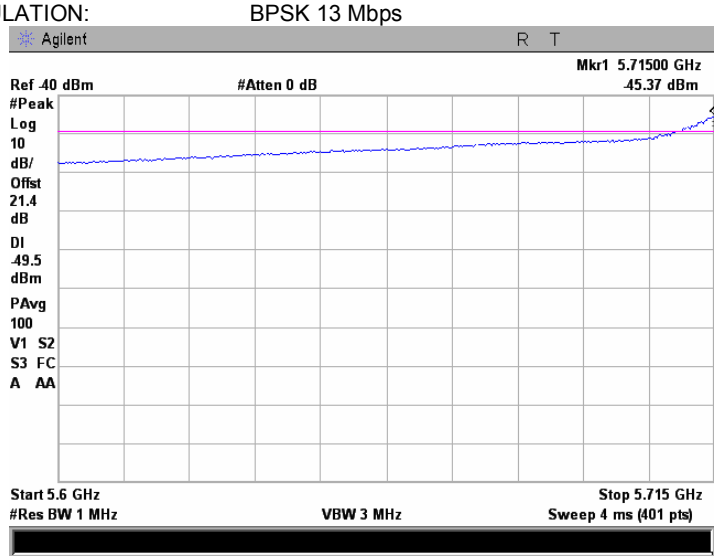
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

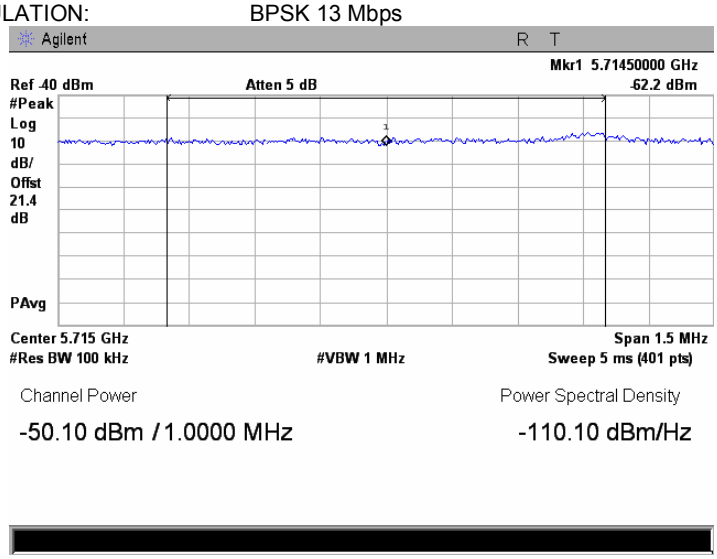
Plot 7.4.121 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.122 Conducted spurious emission measurements at the band edge

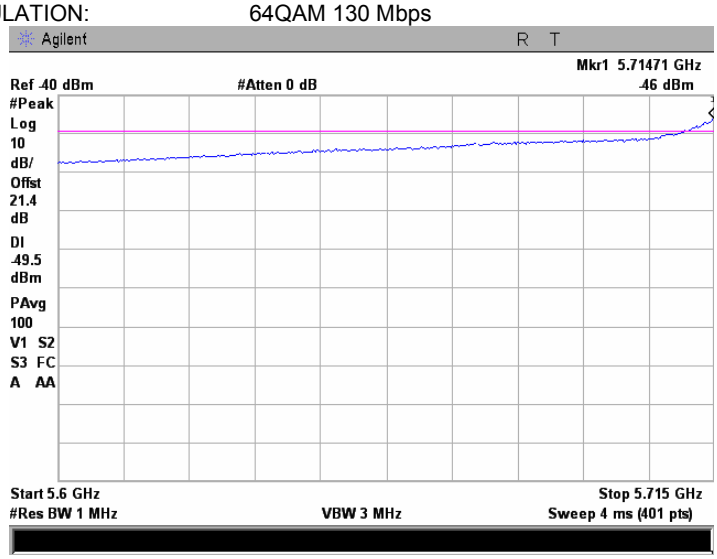
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

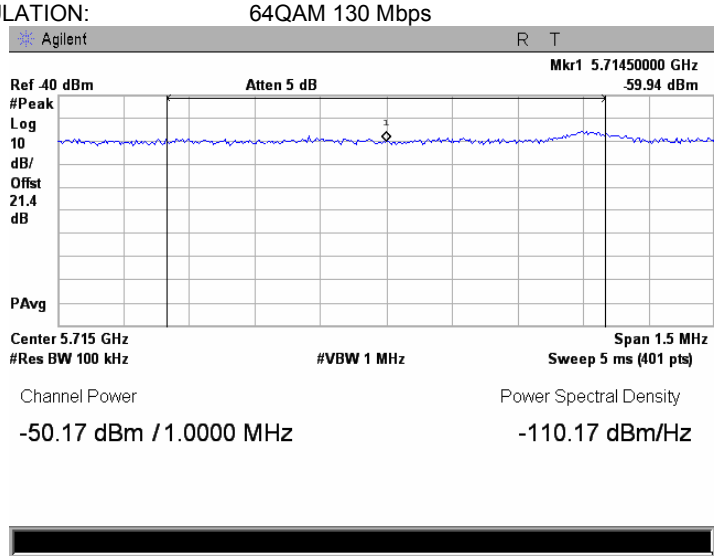
Plot 7.4.123 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.124 Conducted spurious emission measurements at the band edge

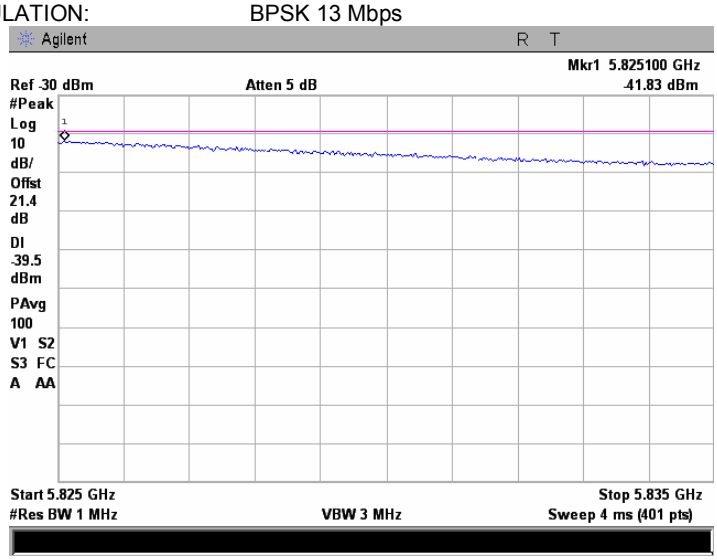
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

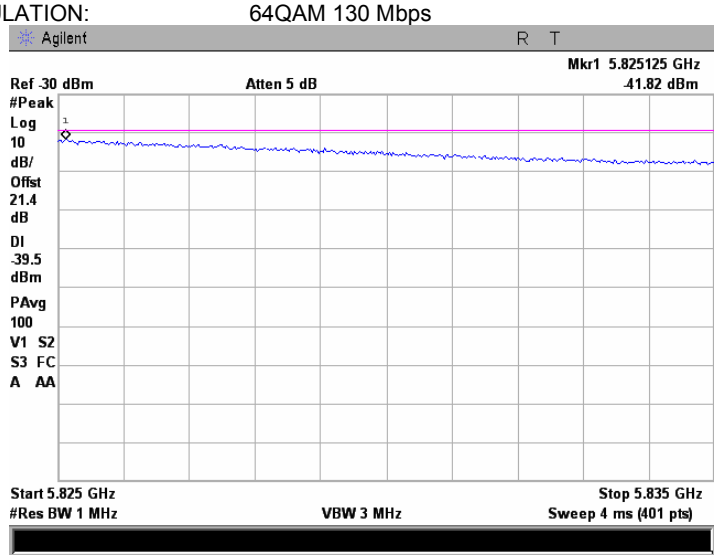
Plot 7.4.125 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.126 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

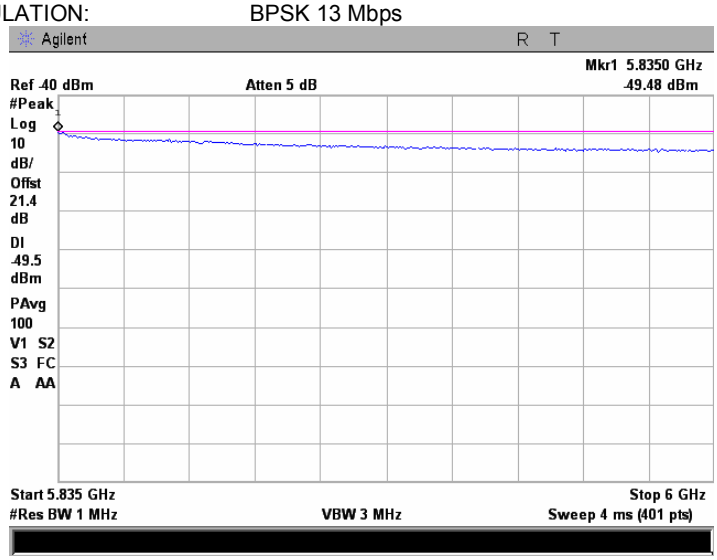
CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

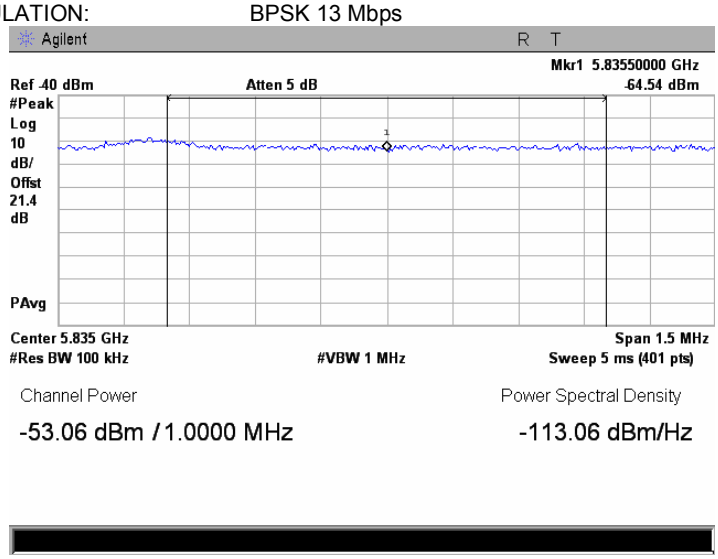
Plot 7.4.127 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.128 Conducted spurious emission measurements at the band edge

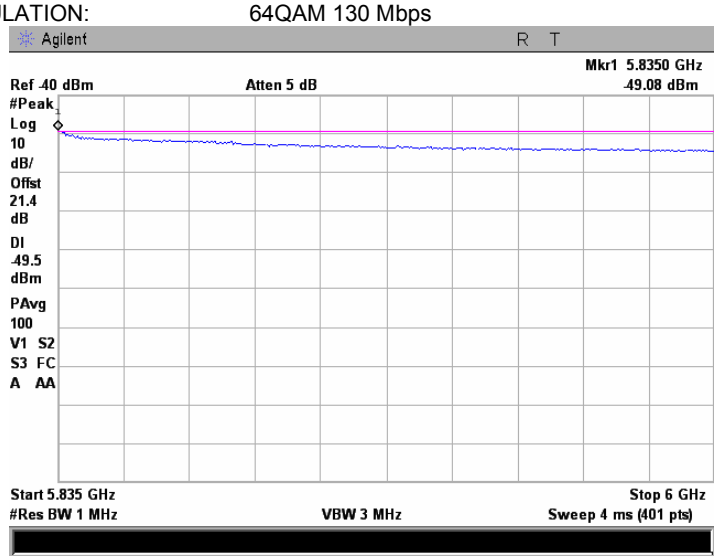
CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

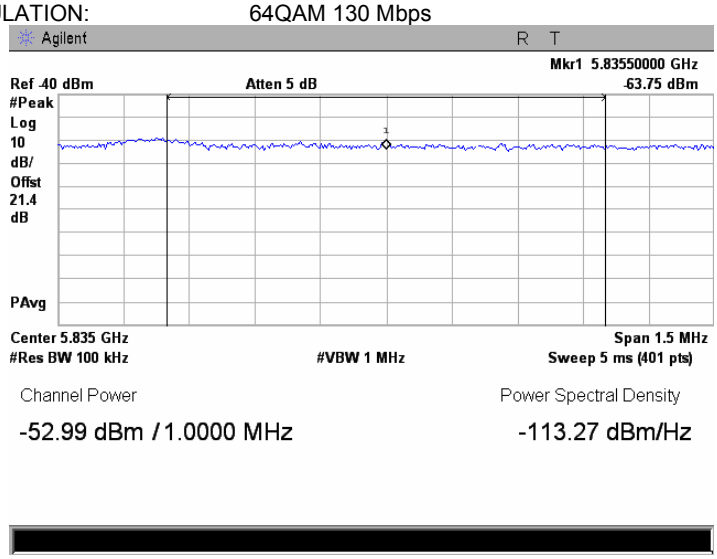
Plot 7.4.129 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.130 Conducted spurious emission measurements at the band edges

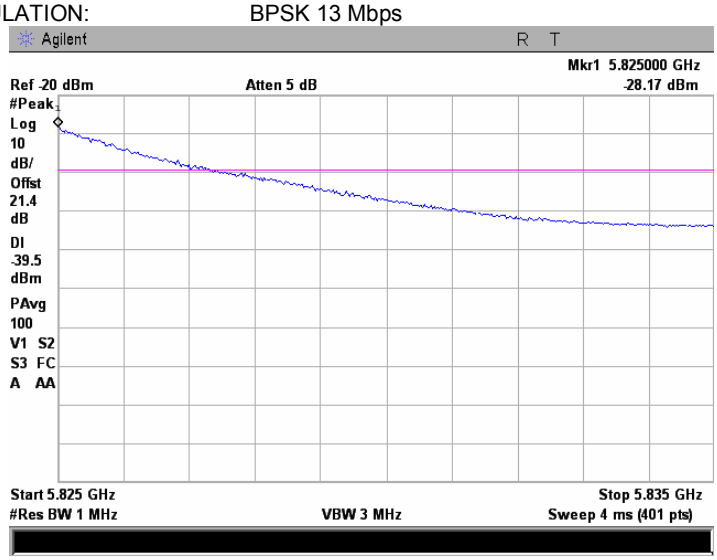
CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

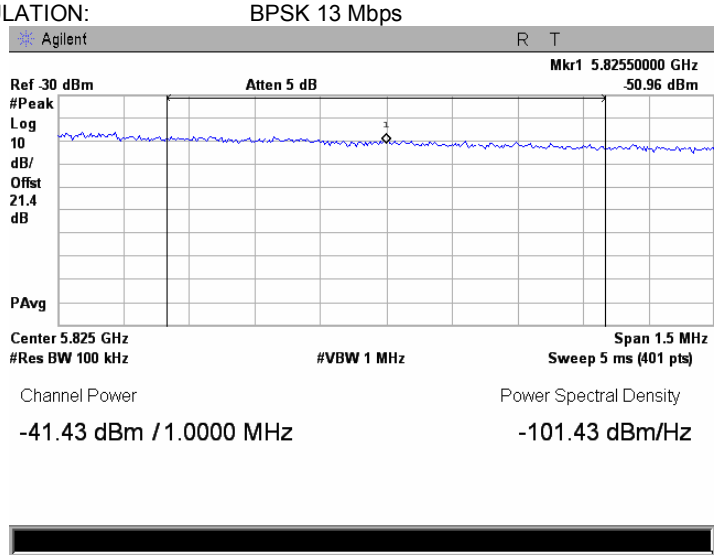
Plot 7.4.131 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.132 Conducted spurious emission measurements at the band edge

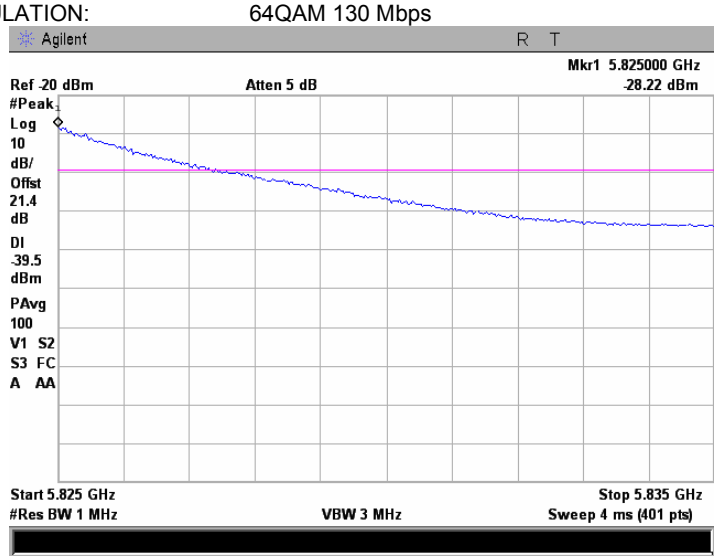
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

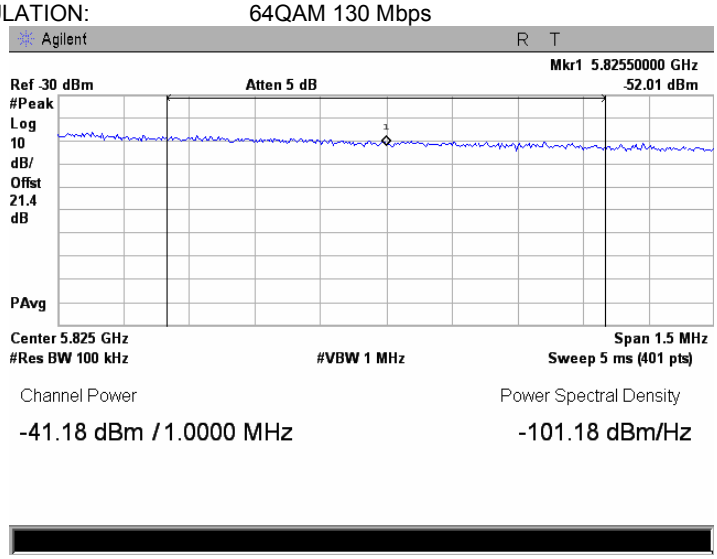
Plot 7.4.133 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.134 Conducted spurious emission measurements at the band edge

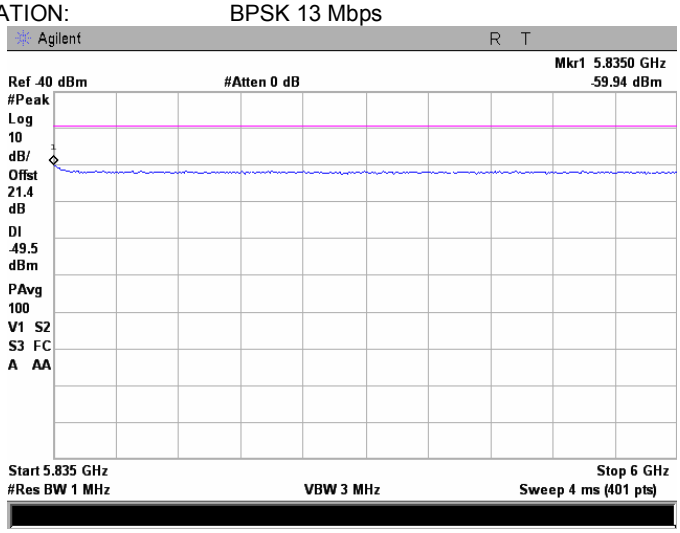
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

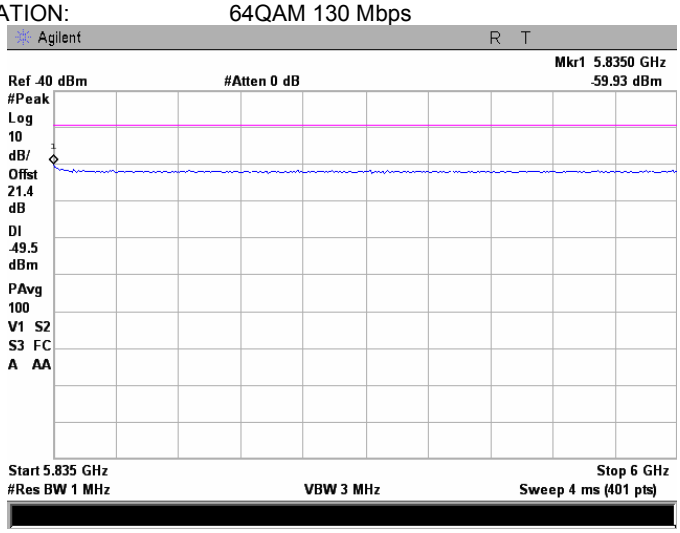
Plot 7.4.135 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.136 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.4.8 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 22.5 dBi
EMISSION BANDWIDTH 10 MHz

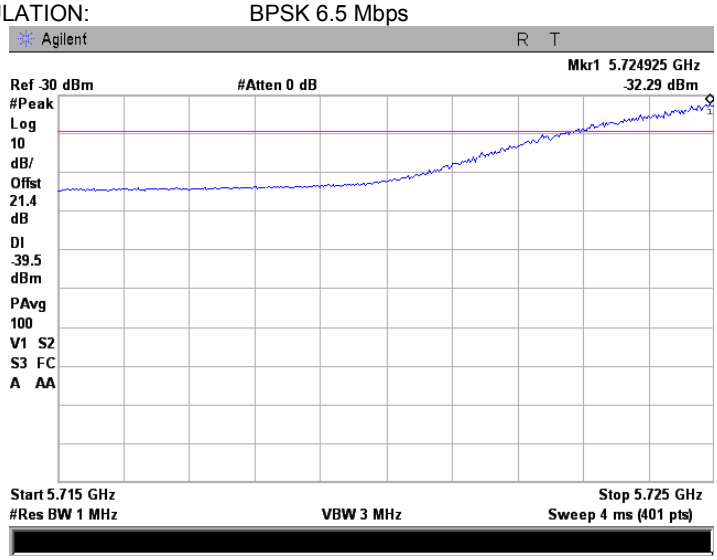
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5735	BPSK	6.5	10	-40.89	22.5	-18.39	-17.0	-1.39	Pass
5715.00					-54.80	22.5	-32.30	-27.0	-5.30	Pass
5724.50		64QAM	65		-40.71	22.5	-18.21	-17.0	-1.21	Pass
5714.71					-54.71	22.5	-32.21	-27.0	-5.21	Pass
Low channel In-Band										
5724.50	5740	BPSK	6.5	10	-43.28	22.5	-20.78	-17.0	-3.78	Pass
5715.00					-49.93	22.5	-27.43	-27.0	-0.43	Pass
5724.50		64QAM	65		-43.34	22.5	-20.84	-17.0	-3.84	Pass
5713.85					-50.08	22.5	-27.58	-27.0	-0.58	Pass
High channel In-Band										
5825.50	5810	BPSK	6.5	10	-44.16	22.5	-21.66	-17.0	-4.66	Pass
5835.00					-50.83	22.5	-28.33	-27.0	-1.33	Pass
5825.50		64QAM	65		-44.08	22.5	-21.58	-17.0	-4.58	Pass
5835.00					-50.68	22.5	-28.18	-27.0	-1.18	Pass
High channel Band Edge										
5825.50	5815	BPSK	6.5	10	-42.80	22.5	-20.30	-17.0	-3.30	Pass
5835.00					-56.25	22.5	-33.75	-27.0	-6.75	Pass
5825.50		64QAM	65		-43.45	22.5	-20.95	-17.0	-3.95	Pass
5835.00					-55.73	22.5	-33.23	-27.0	-6.23	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

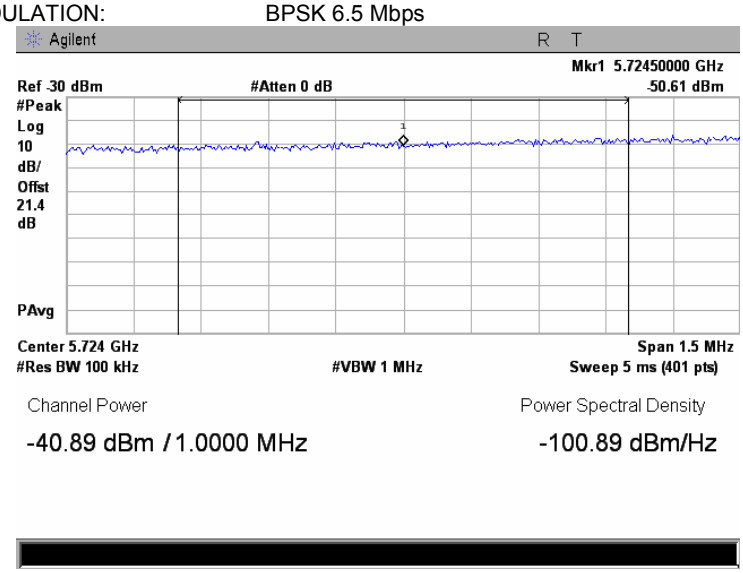
Plot 7.4.137 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.138 Conducted spurious emission measurements at the band edge

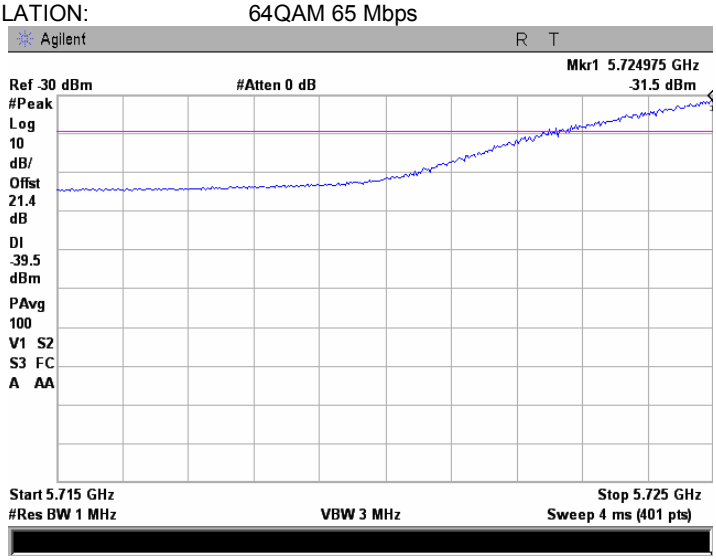
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

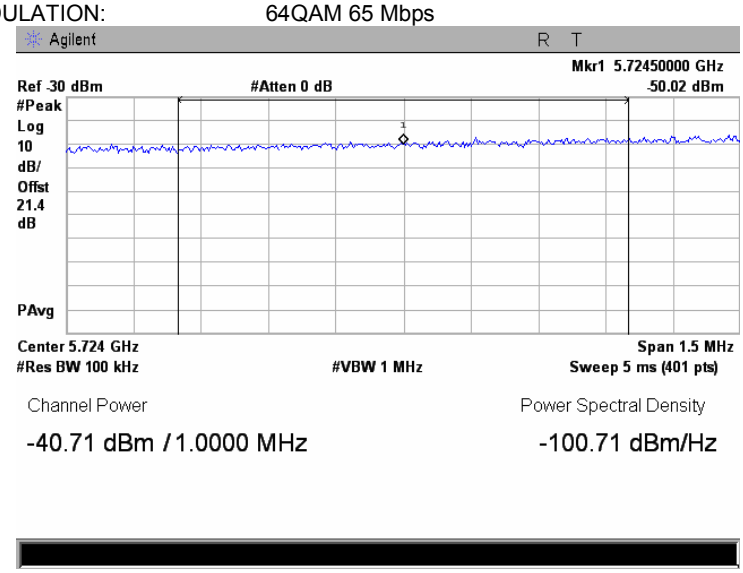
Plot 7.4.139 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.140 Conducted spurious emission measurements at the band edge

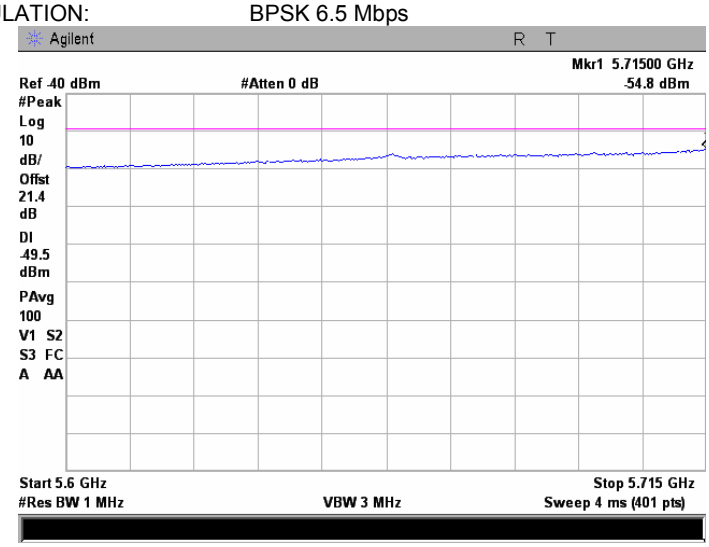
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

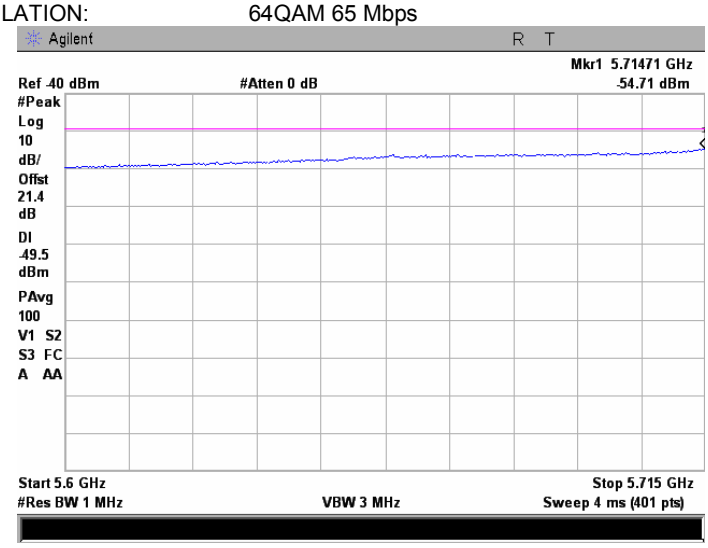
Plot 7.4.141 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.142 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

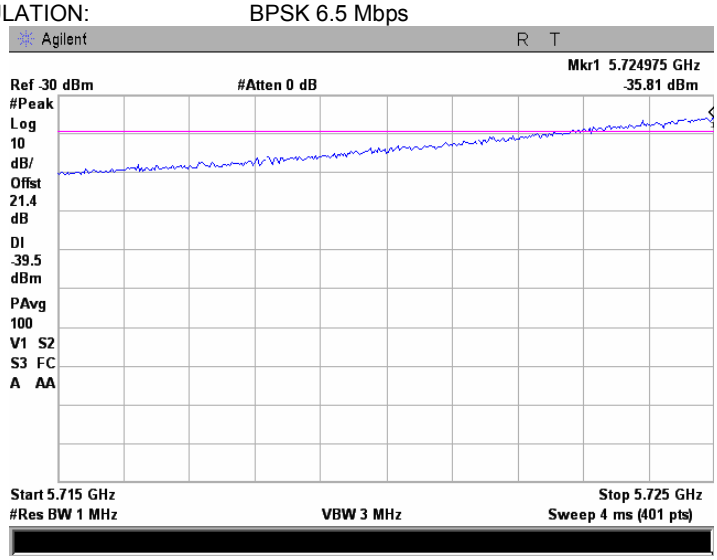
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

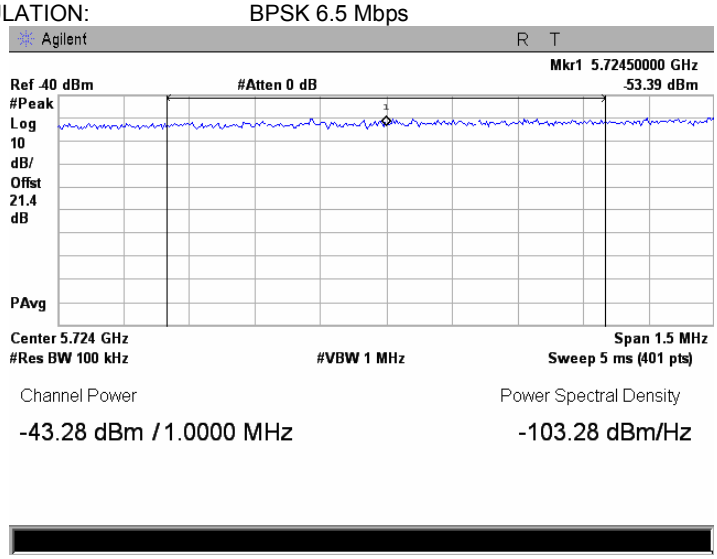
Plot 7.4.143 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.144 Conducted spurious emission measurements at the band edge

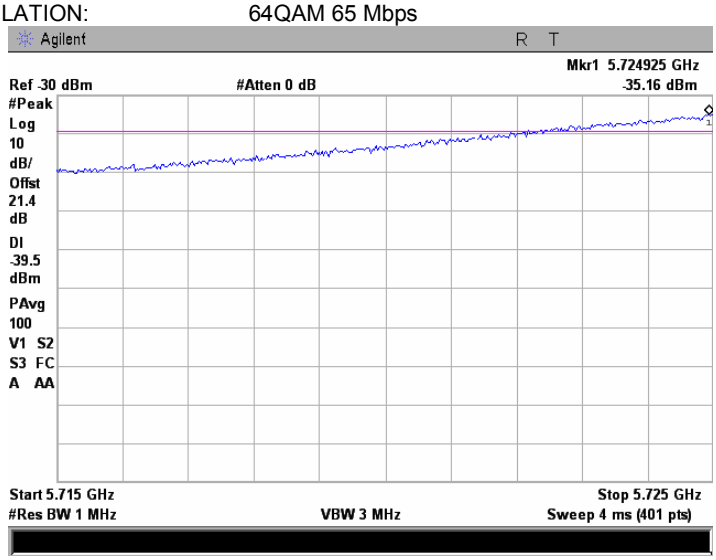
CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

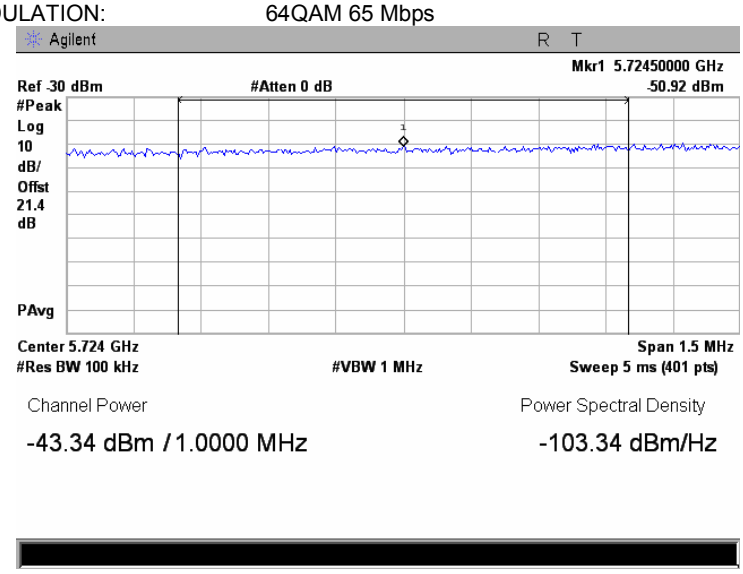
Plot 7.4.145 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.146 Conducted spurious emission measurements at the band edge

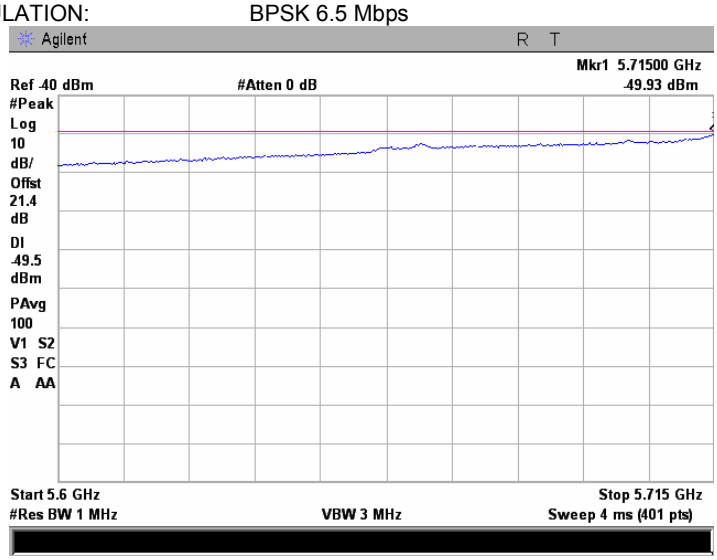
CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

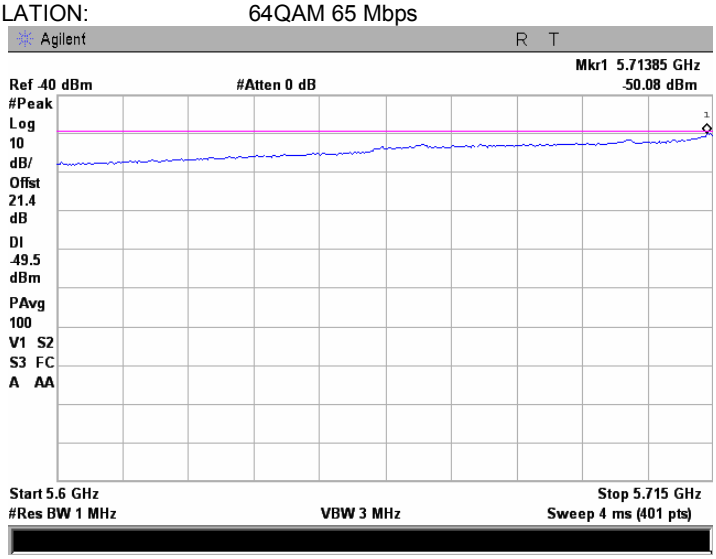
Plot 7.4.147 Conducted spurious emission measurements in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.148 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

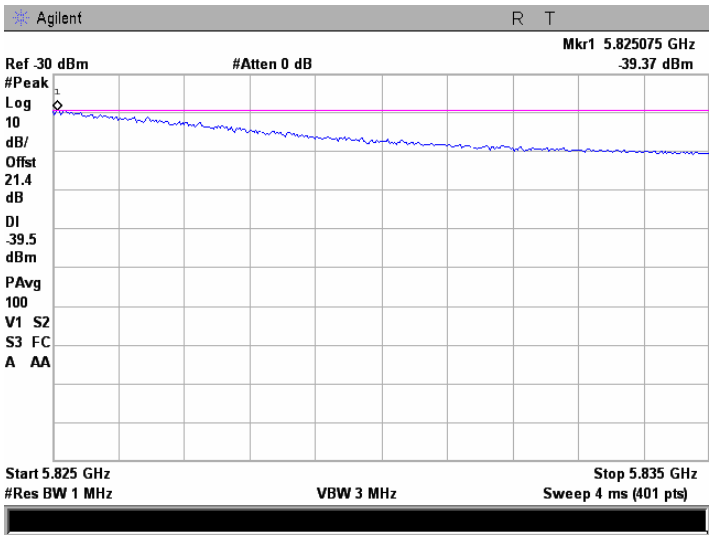
CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

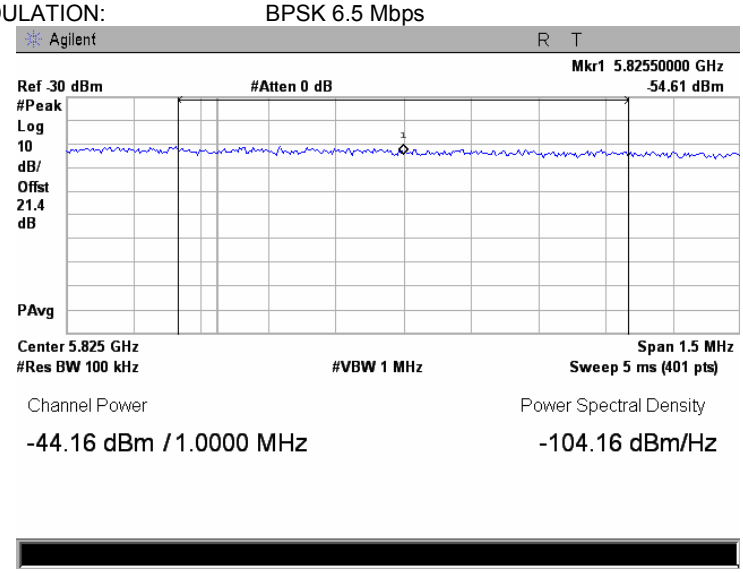
Plot 7.4.149 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.150 Conducted spurious emission measurements at the band edge

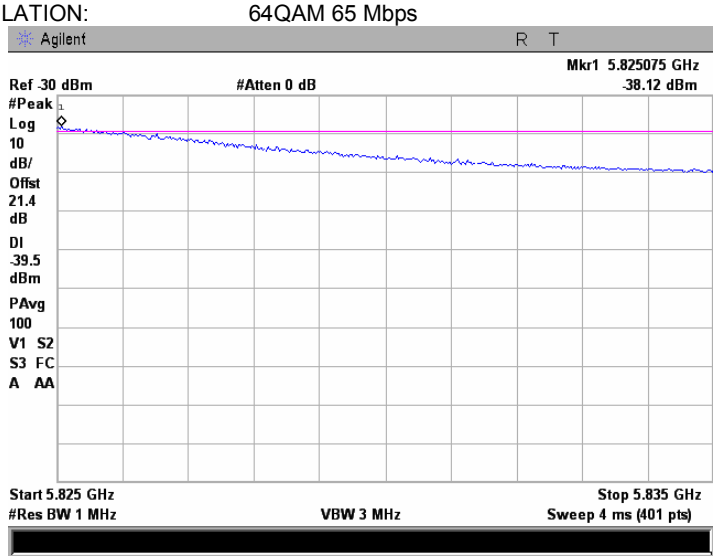
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

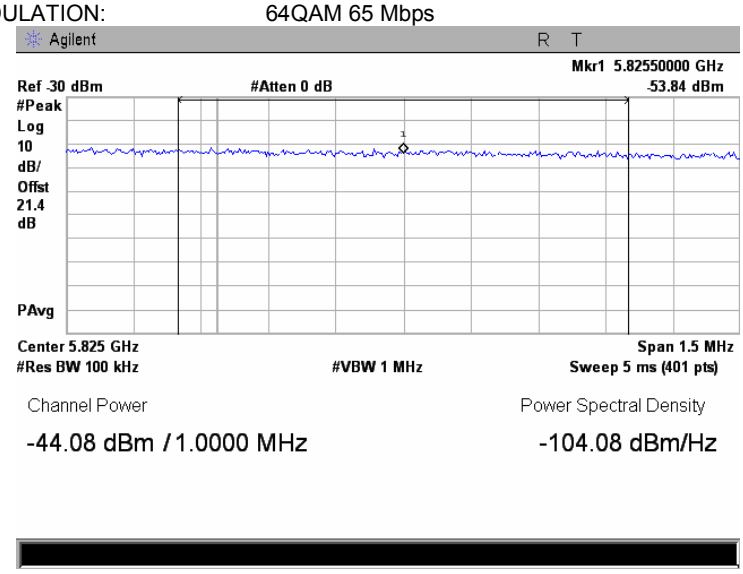
Plot 7.4.151 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.152 Conducted spurious emission measurements at the band edge

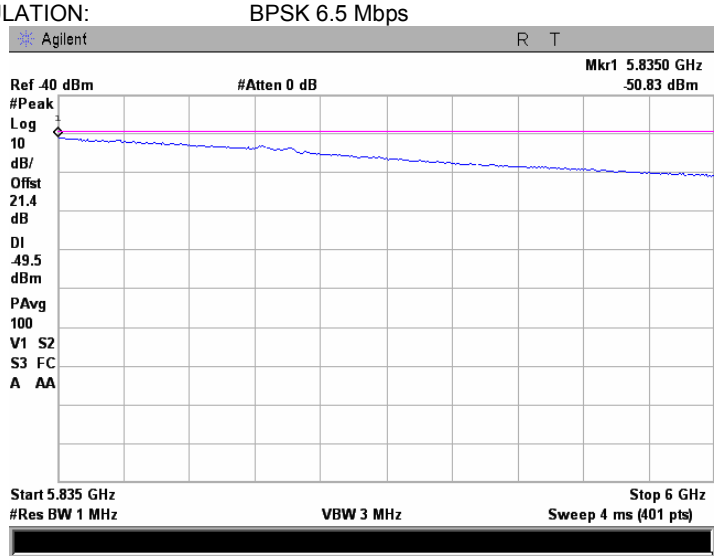
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

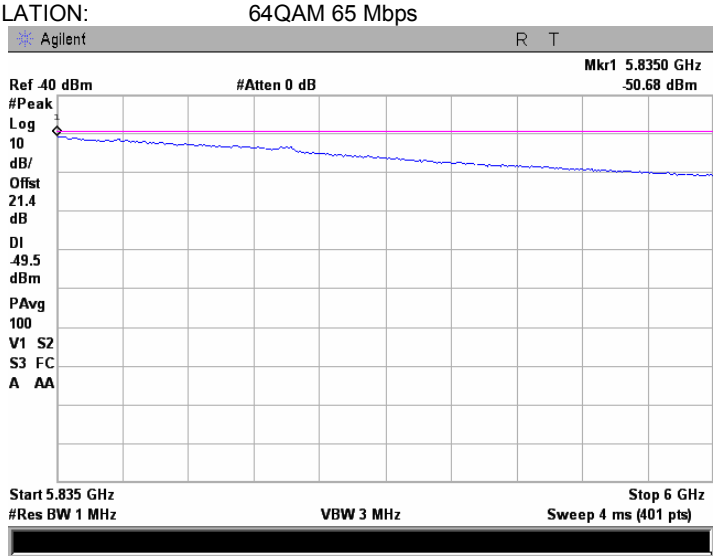
Plot 7.4.153 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.154 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

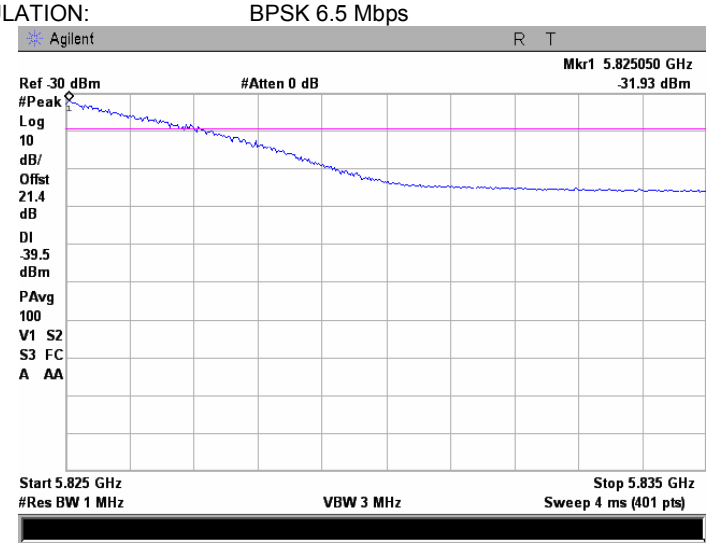
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

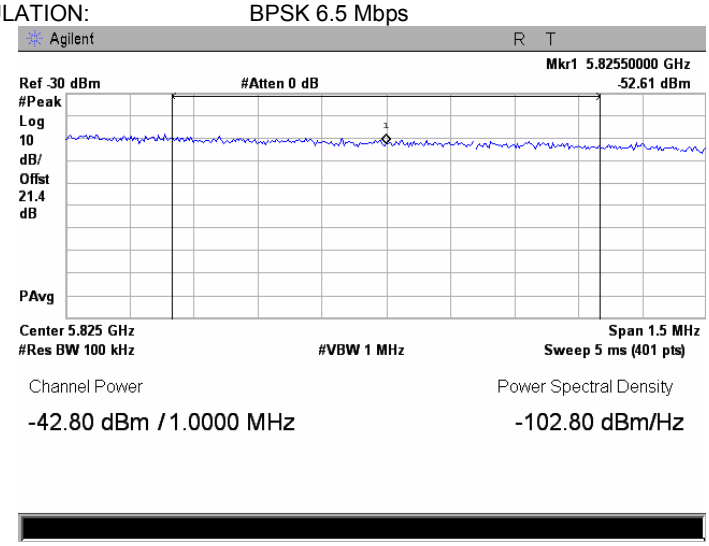
Plot 7.4.155 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.156 Conducted spurious emission measurements at the band edge

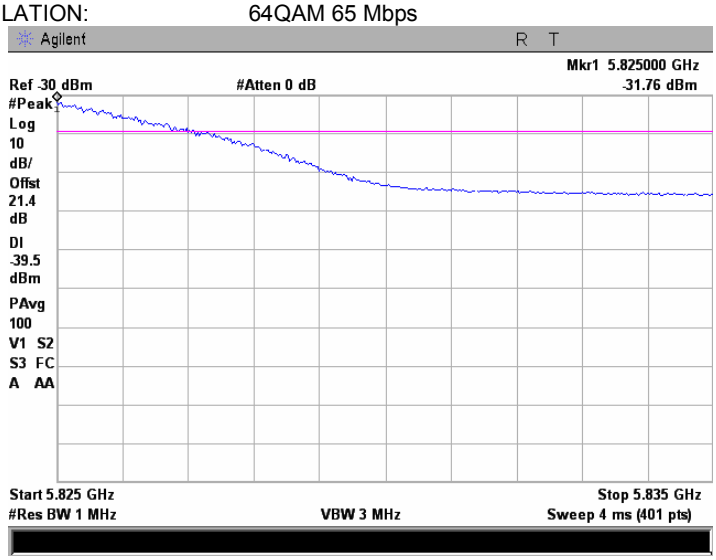
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

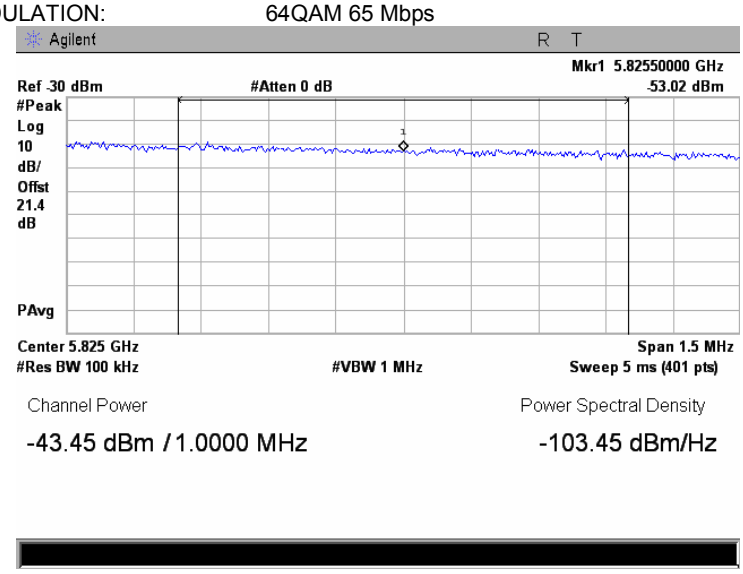
Plot 7.4.157 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.158 Conducted spurious emission measurements at the band edge

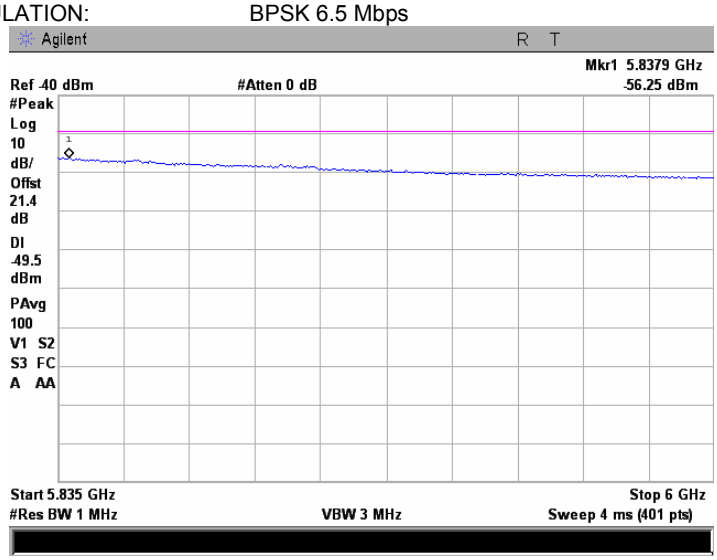
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

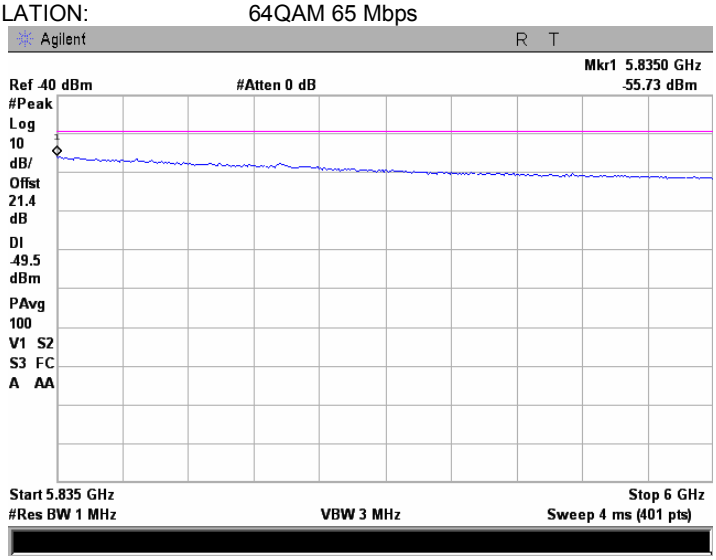
Plot 7.4.159 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.160 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.4.9 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 22.5 dBi
EMISSION BANDWIDTH 5 MHz

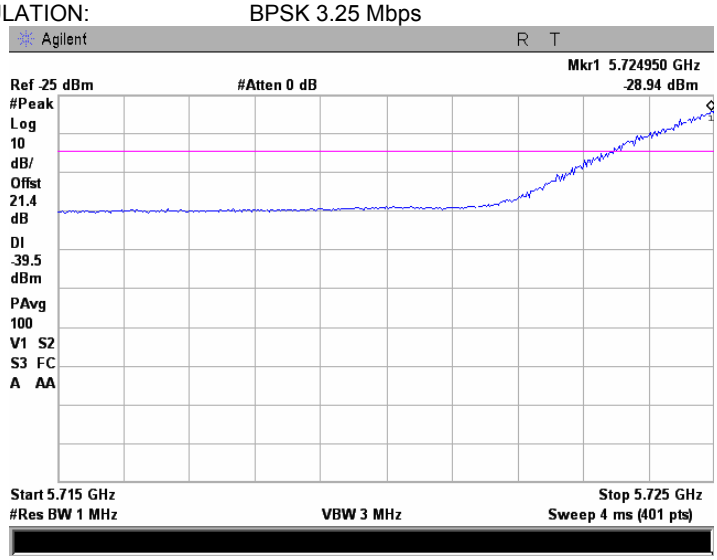
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5730	BPSK	3.25	5	-41.20	22.5	-18.70	-17.0	-1.70	Pass
5688.26					-52.45	22.5	-29.95	-27.0	-2.95	Pass
5691.71					-50.70	22.5	-28.20	-27.0	-1.20	Pass
5724.50		64QAM	32.5		-40.32	22.5	-17.82	-17.0	-0.82	Pass
5688.26					-52.18	22.5	-29.68	-27.0	-2.68	Pass
5691.71					-50.51	22.5	-28.01	-27.0	-1.01	Pass
Low channel In-Band										
5696.73	5735	BPSK	3.25	5	-51.70	22.5	-29.20	-27.0	-2.20	Pass
5693.24					-49.74	22.5	-27.24	-27.0	-0.24	Pass
5696.73		64QAM	32.5		-51.66	22.5	-29.16	-27.0	-2.16	Pass
5693.24					-49.62	22.5	-27.12	-27.0	-0.12	Pass
High channel In-Band										
5853.22	5815	BPSK	3.25	5	-50.06	22.5	-27.56	-27.0	-0.56	Pass
5856.72					-52.10	22.5	-29.60	-27.0	-2.60	Pass
5853.22		64QAM	32.5		-50.11	22.5	-27.61	-27.0	-0.61	Pass
5856.72					-52.04	22.5	-29.54	-27.0	-2.54	Pass
High channel Band Edge										
5824.50	5820	BPSK	3.25	5	-41.21	22.5	-18.71	-17.0	-1.71	Pass
5858.10					-52.43	22.5	-29.93	-27.0	-2.93	Pass
5861.80					-54.11	22.5	-31.61	-27.0	-4.61	Pass
5824.50		64QAM	32.5		-41.02	22.5	-18.52	-17.0	-1.52	Pass
5858.10					-52.93	22.5	-30.43	-27.0	-3.43	Pass
5861.80					-54.71	22.5	-32.21	-27.0	-5.21	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

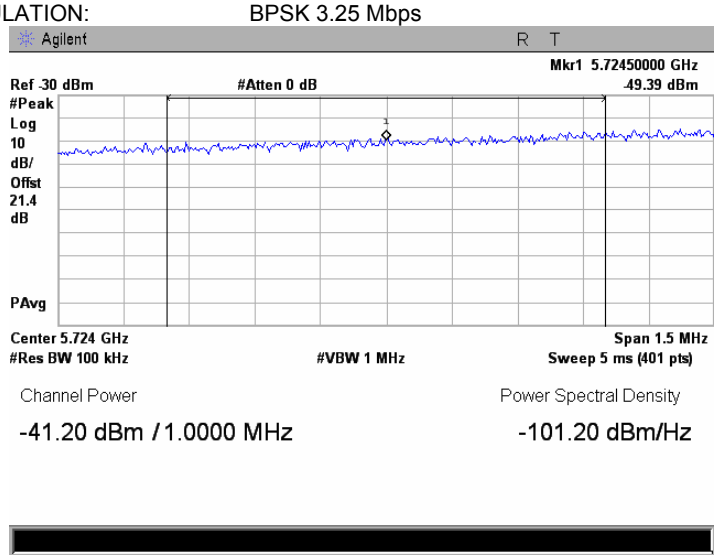
Plot 7.4.161 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.162 Conducted spurious emission measurements at the band edge

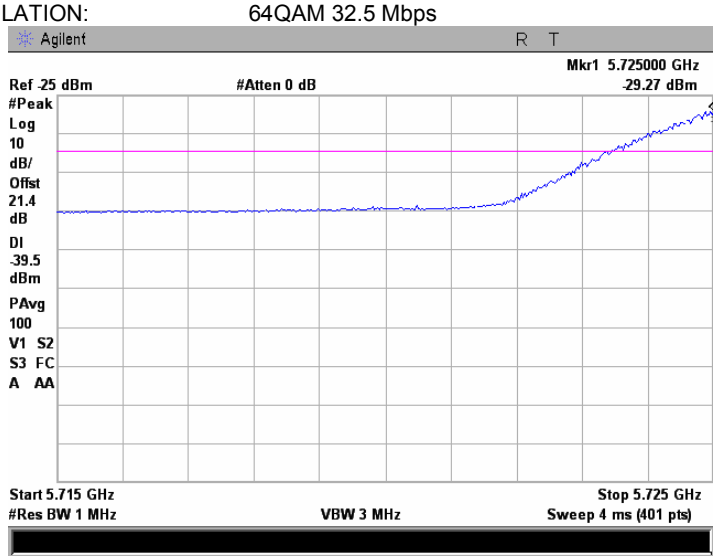
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

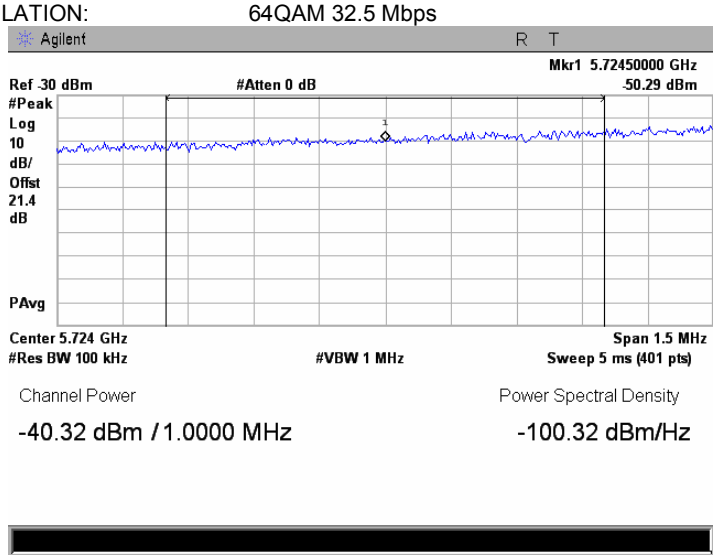
Plot 7.4.163 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.164 Conducted spurious emission measurements at the band edge

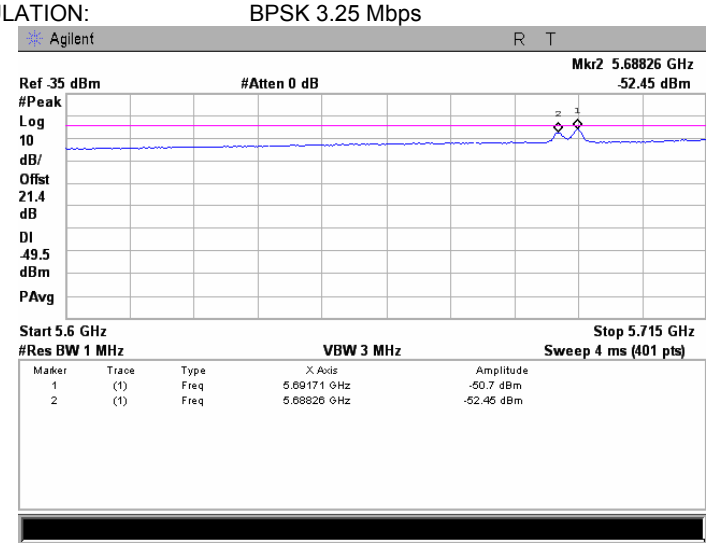
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

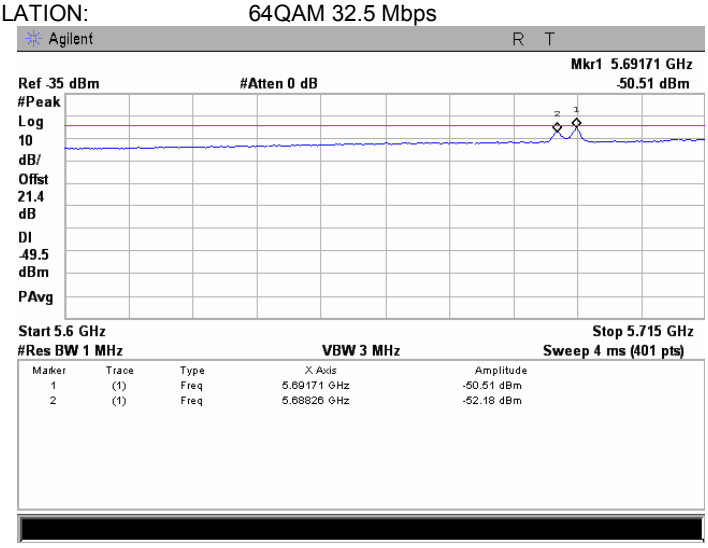
Plot 7.4.165 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.166 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

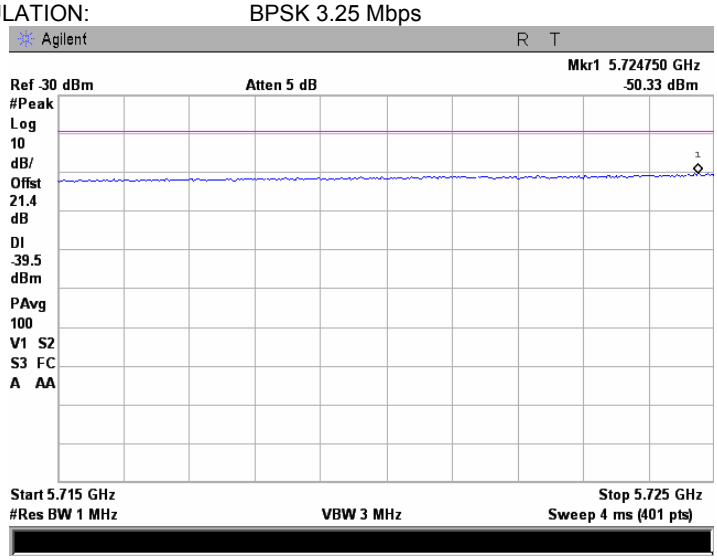
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

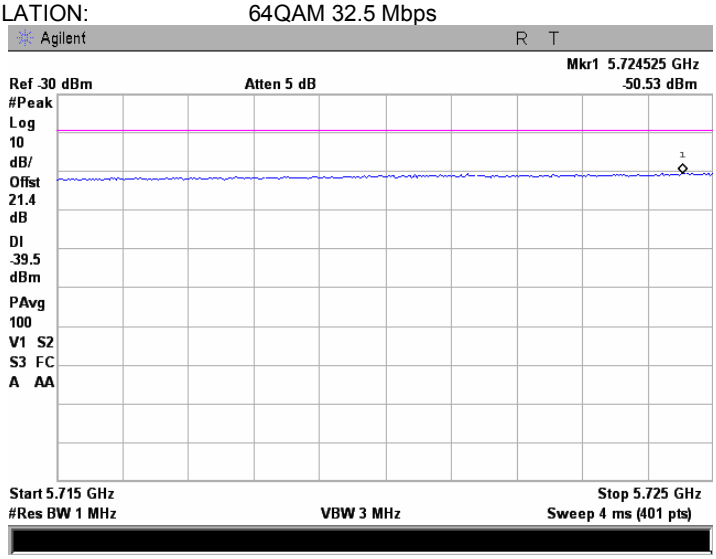
Plot 7.4.167 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.168 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

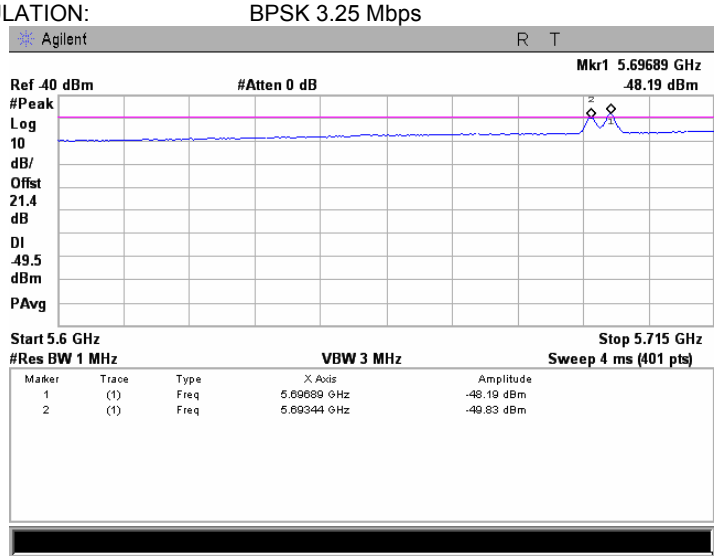
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

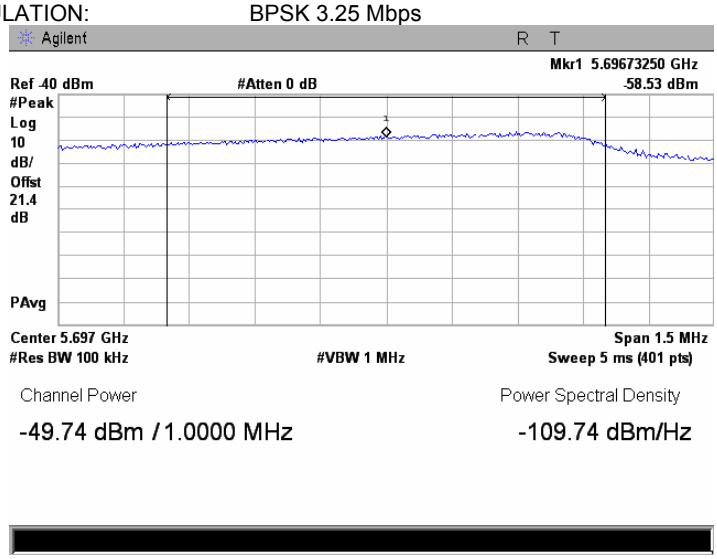
Plot 7.4.169 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.170 Conducted spurious emission measurements at the band edge

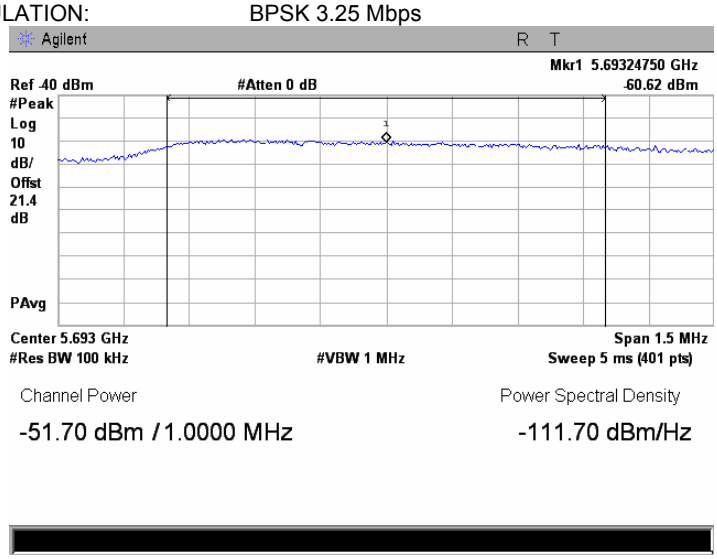
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.4.171 Conducted spurious emission measurements at the band edge

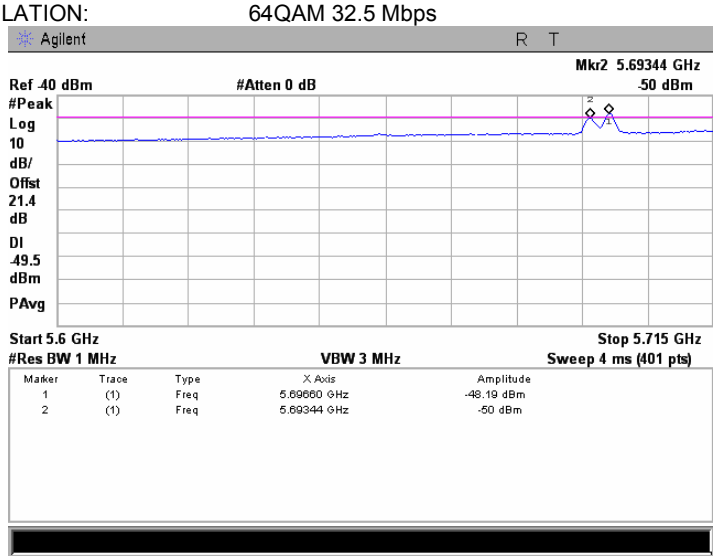
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

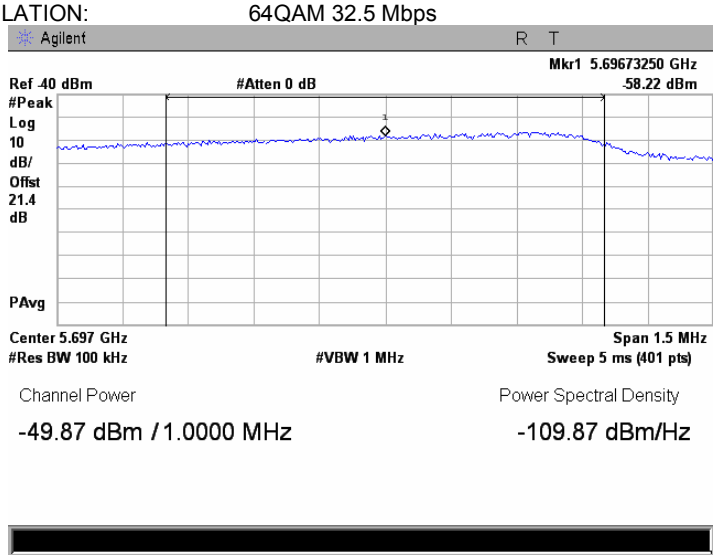
Plot 7.4.172 Conducted spurious emission measurements in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.173 Conducted spurious emission measurements at the band edges

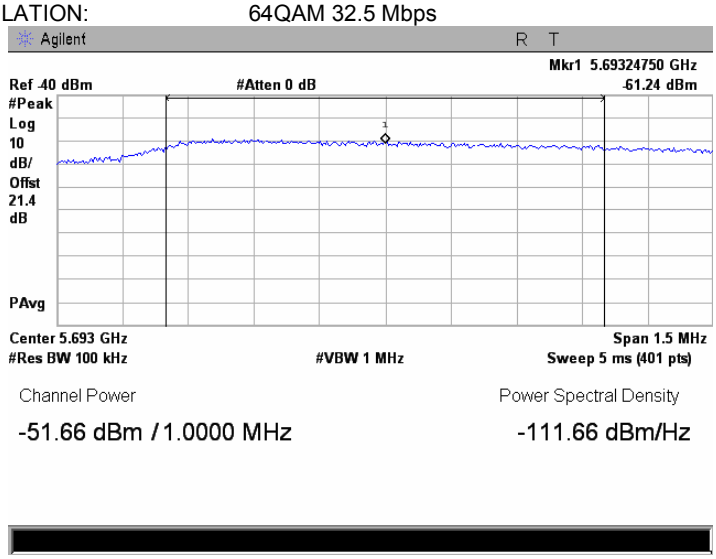
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.4.174 Conducted spurious emission measurements at the band edges

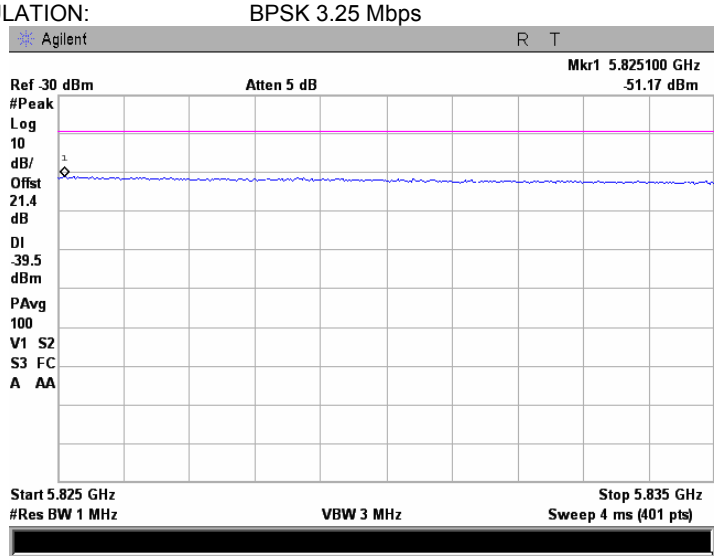
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

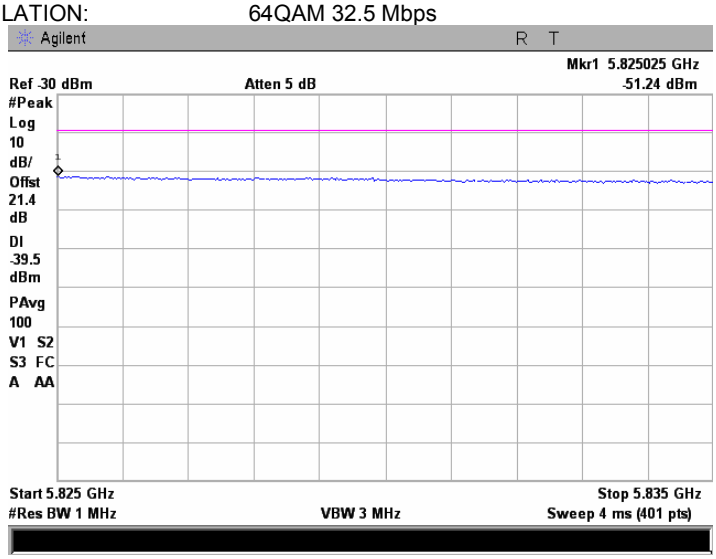
Plot 7.4.175 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.176 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

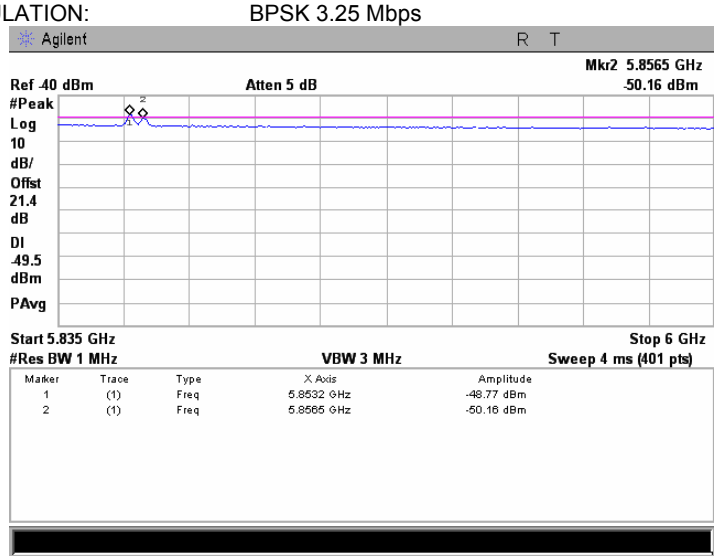
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

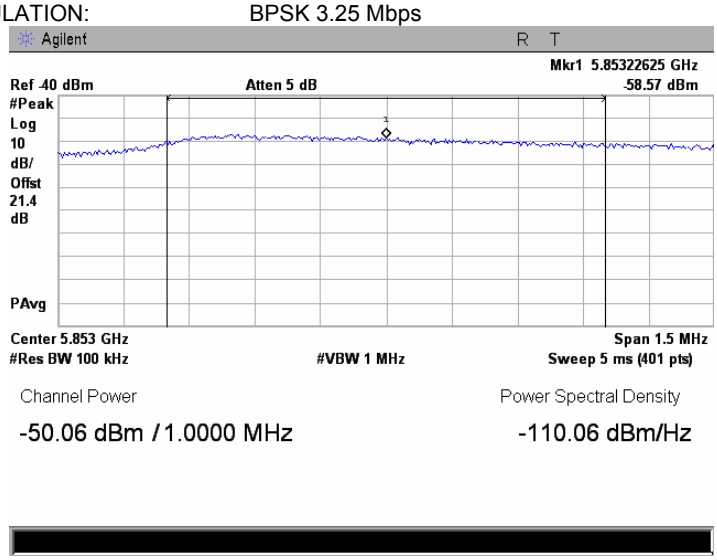
Plot 7.4.177 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.178 Conducted spurious emission measurements at the band edges

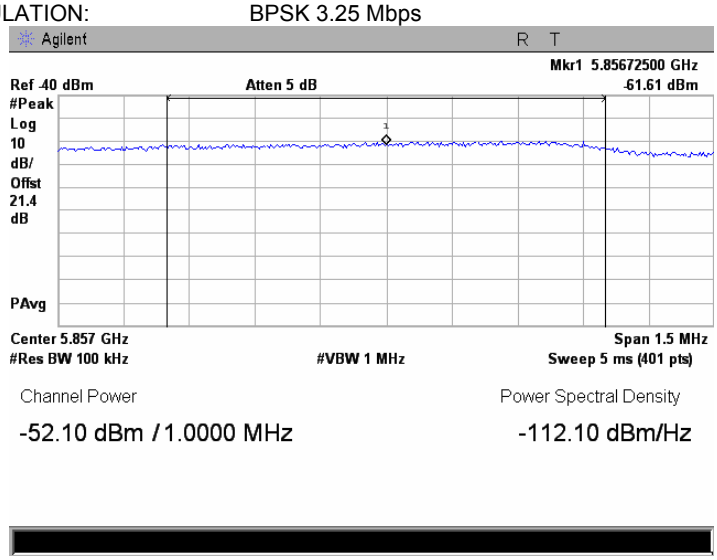
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.4.179 Conducted spurious emission measurements at the band edges

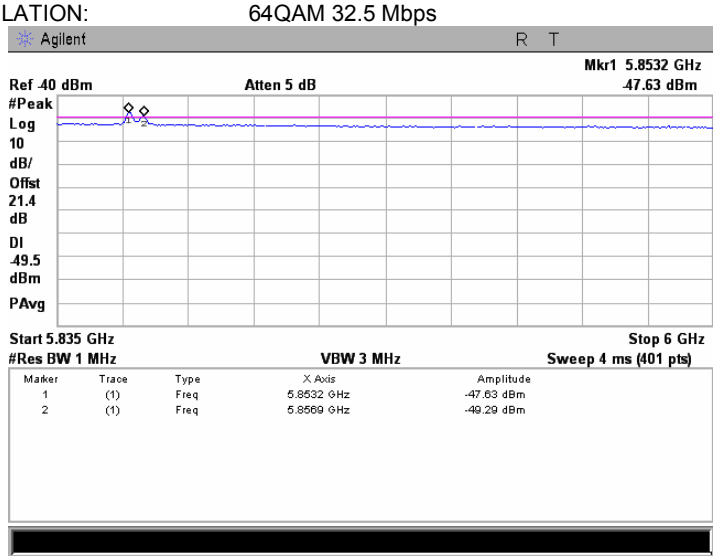
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

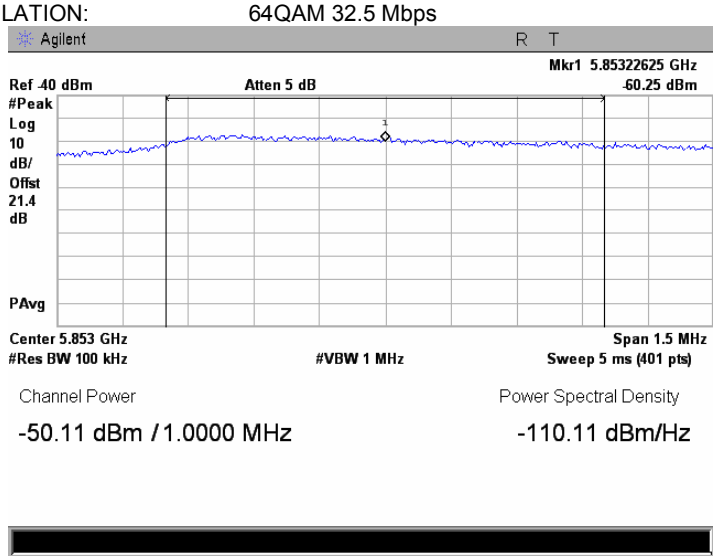
Plot 7.4.180 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.181 Conducted spurious emission measurements at the band edges

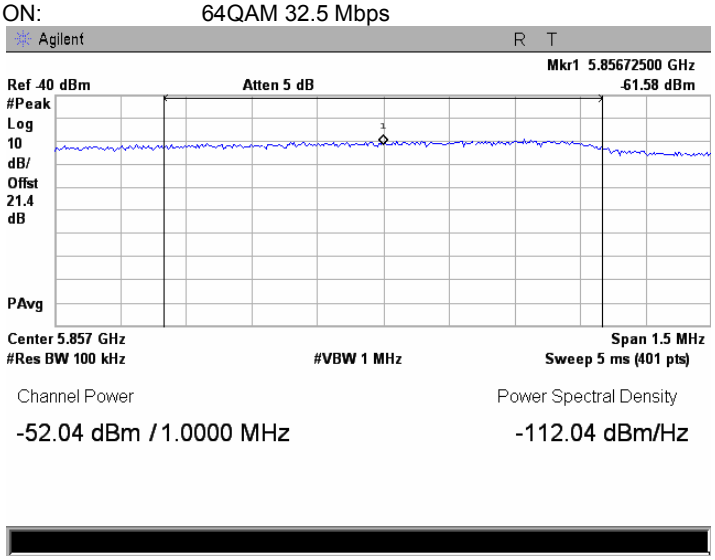
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.4.182 Conducted spurious emission measurements at the band edges

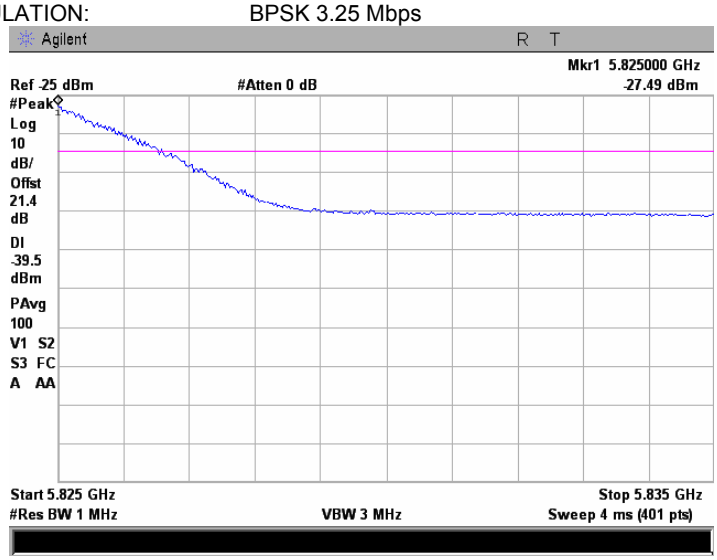
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

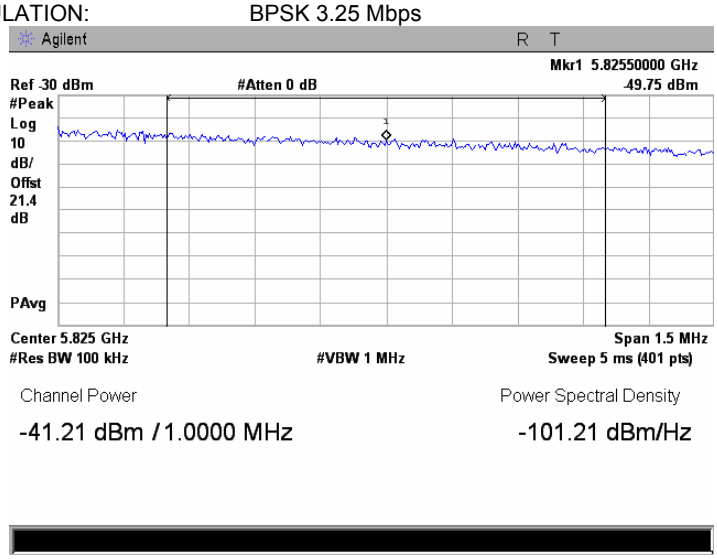
Plot 7.4.183 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.184 Conducted spurious emission measurements at the band edge

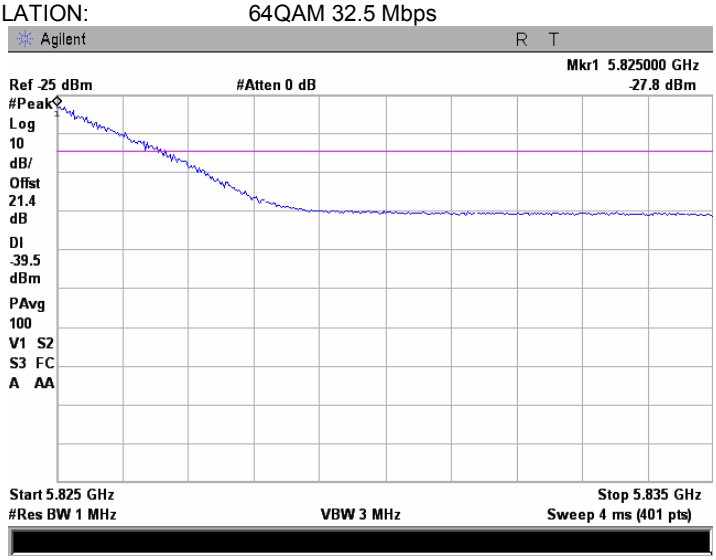
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

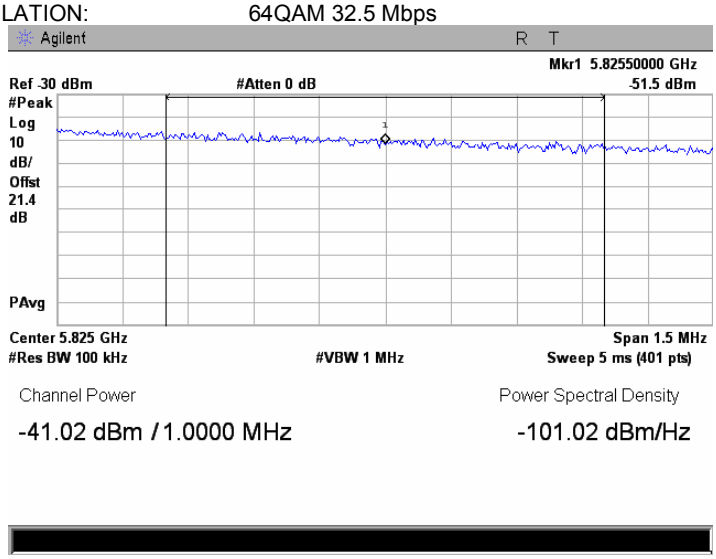
Plot 7.4.185 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.186 Conducted spurious emission measurements at the band edge

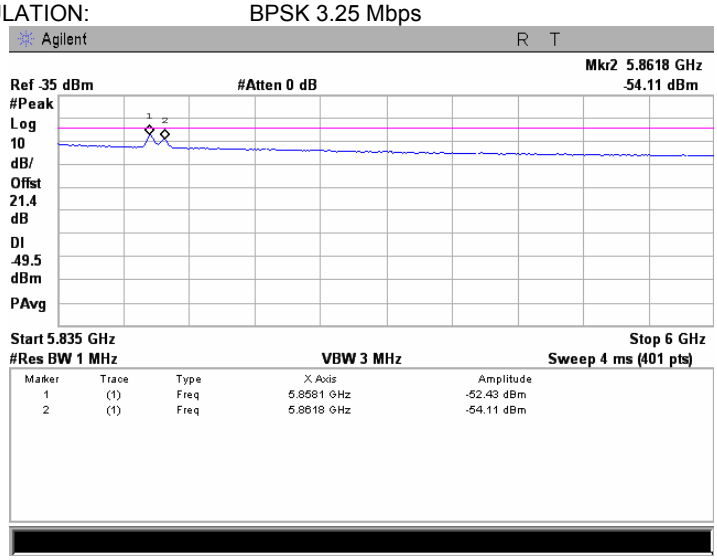
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2** **Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

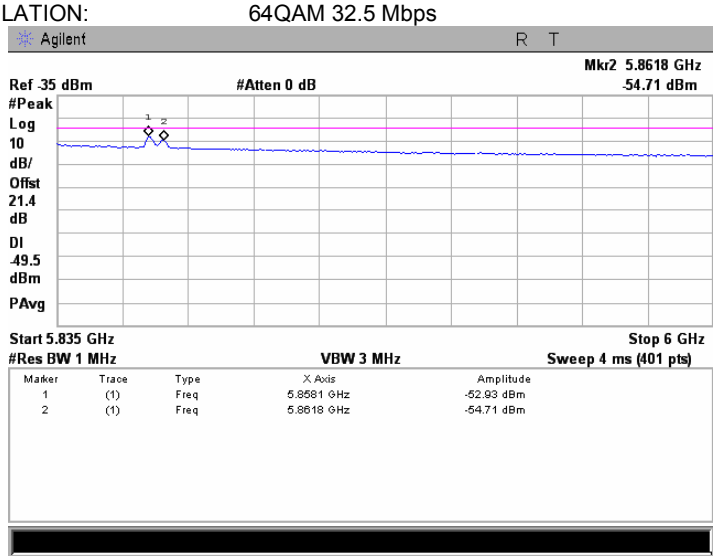
Plot 7.4.187 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.188 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.4.10 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 28 dBi
EMISSION BANDWIDTH 40 MHz

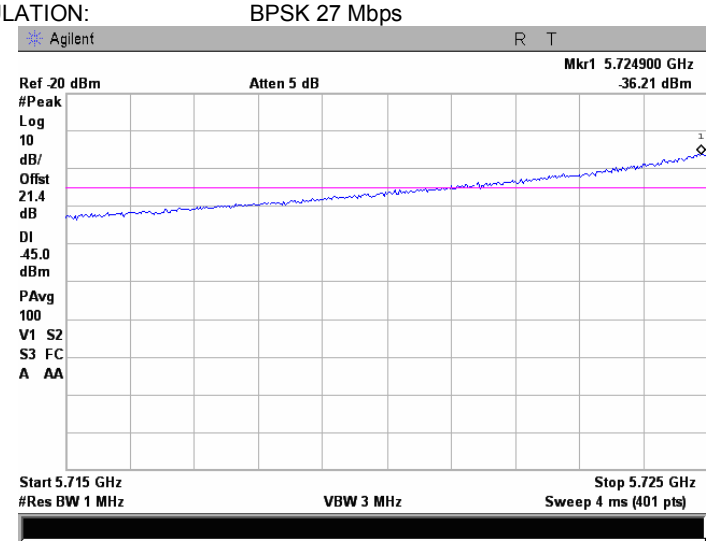
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel Band Edge										
5724.5	5745.0	BPSK	27	40	-46.14	28.0	-18.14	-17.0	-1.14	Pass
5715.0					-55.21	28.0	-27.21	-27.0	-0.21	Pass
5724.5		64QAM	270		-45.88	28.0	-17.88	-17.0	-0.88	Pass
5715.0					-55.15	28.0	-27.15	-27.0	-0.15	Pass
Mid channel										
5724.75	5775.0	BPSK	27	40	-48.45	28.0	-20.45	-17.0	-3.45	Pass
5714.50					-55.47	28.0	-27.47	-27.0	-0.47	Pass
5825.15					-51.69	28.0	-23.69	-17.0	-6.69	Pass
5835.50					-55.17	28.0	-27.17	-27.0	-0.17	Pass
5724.65		64QAM	270		-48.27	28.0	-20.27	-17.0	-3.27	Pass
5714.50					-55.25	28.0	-27.25	-27.0	-0.25	Pass
5825.20					-51.52	28.0	-23.52	-17.0	-6.52	Pass
5835.50					-55.64	28.0	-27.64	-27.0	-0.64	Pass
High channel Band edge										
5825.50	5805.0	BPSK	27	40	-48.62	28.0	-20.62	-17.0	-3.62	Pass
5835.00					-56.90	28.0	-28.90	-27.0	-1.90	Pass
5825.50		64QAM	270		-48.60	28.0	-20.60	-17.0	-3.60	Pass
5835.00					-56.47	28.0	-28.47	-27.0	-1.47	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
******- Margin = EIRP of spurious –specified limit.

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

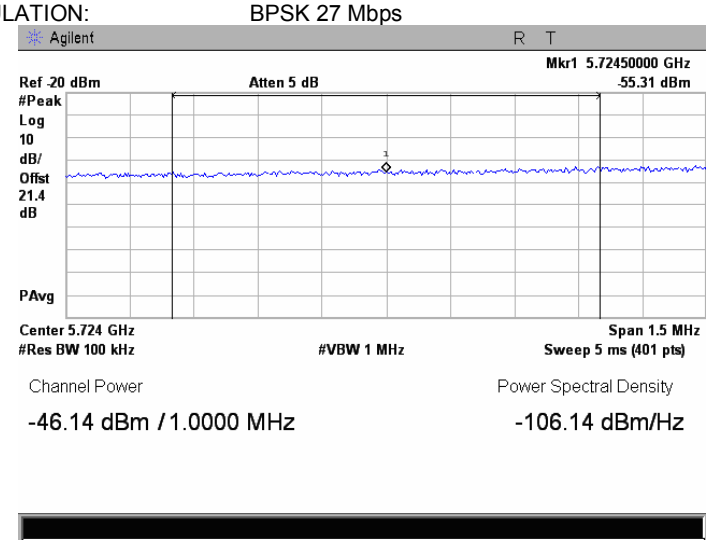
Plot 7.4.189 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.190 Conducted spurious emission measurements at the band edge

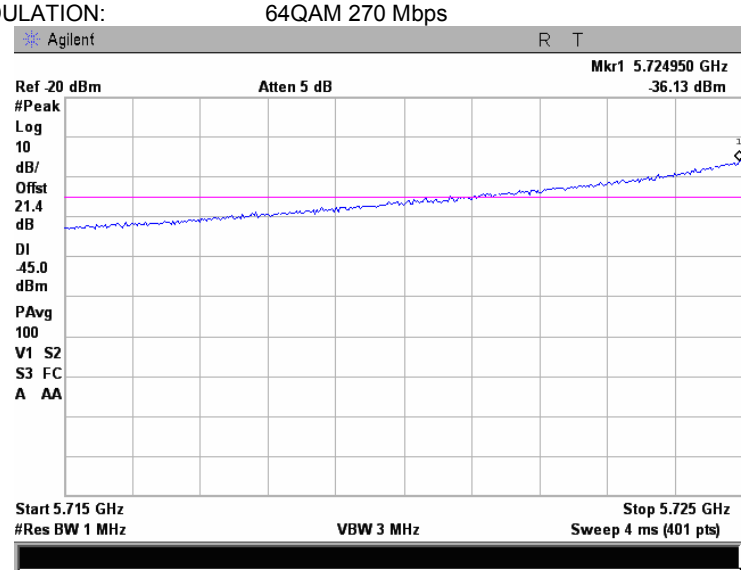
CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

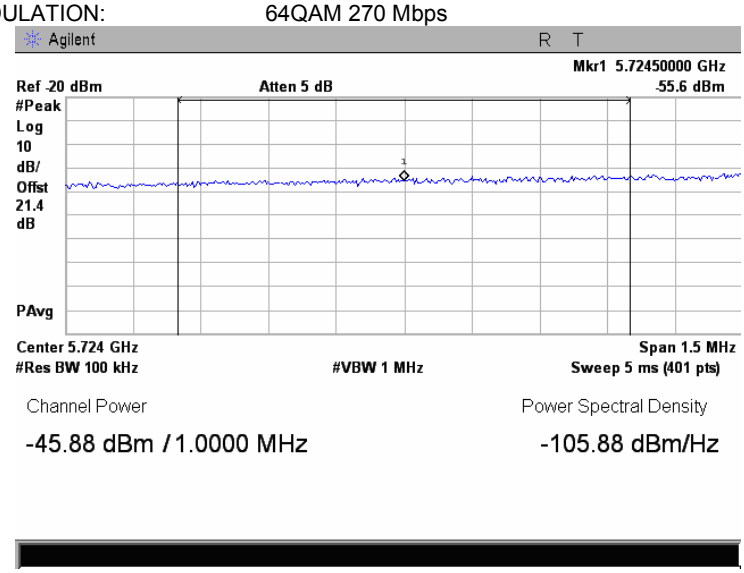
Plot 7.4.191 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.192 Conducted spurious emission measurements at the band edge

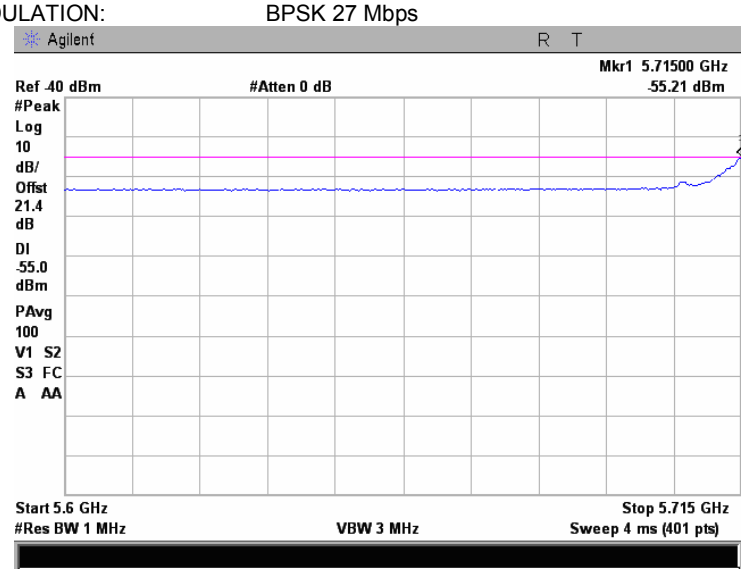
CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

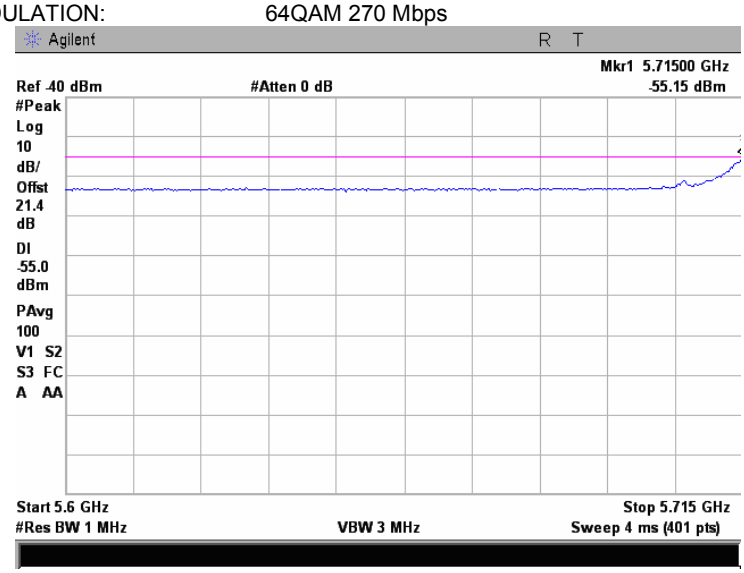
Plot 7.4.193 Conducted spurious emission measurements at the band edges in frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.194 Conducted spurious emission measurements at the band edges in frequency range 5600 – 5715 MHz

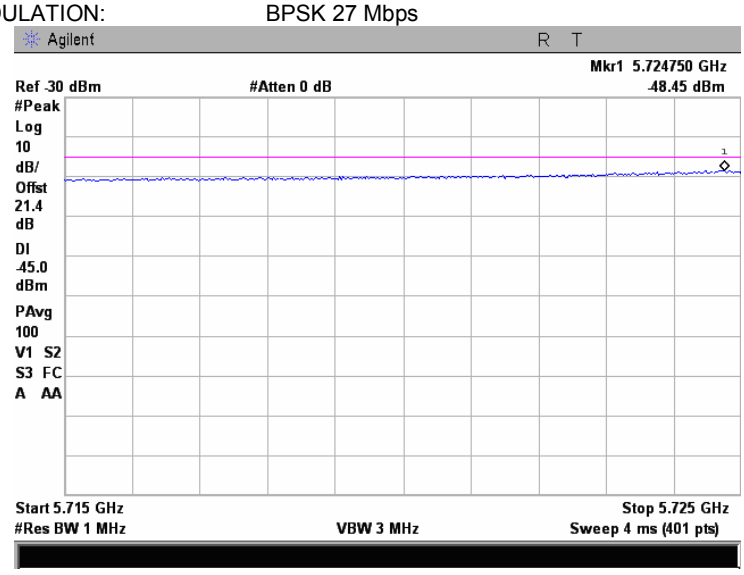
CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

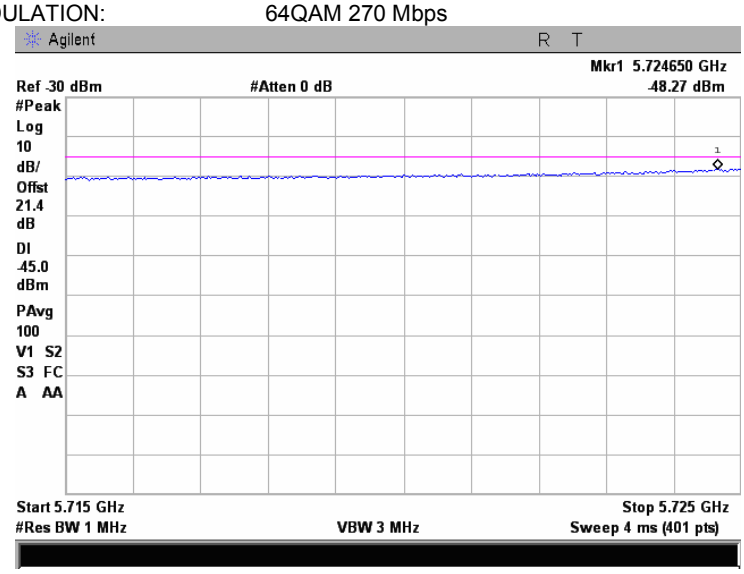
Plot 7.4.195 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.196 Conducted spurious emission measurements at the band edges in frequency range 5715 – 5725 MHz

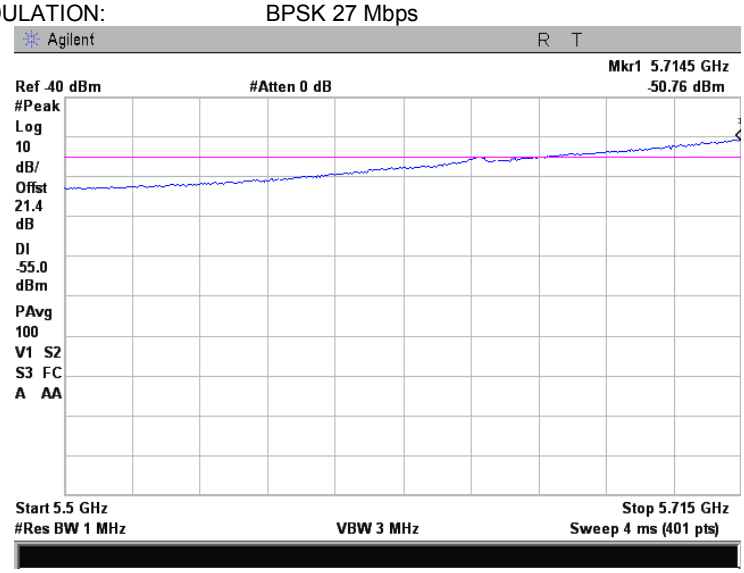
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

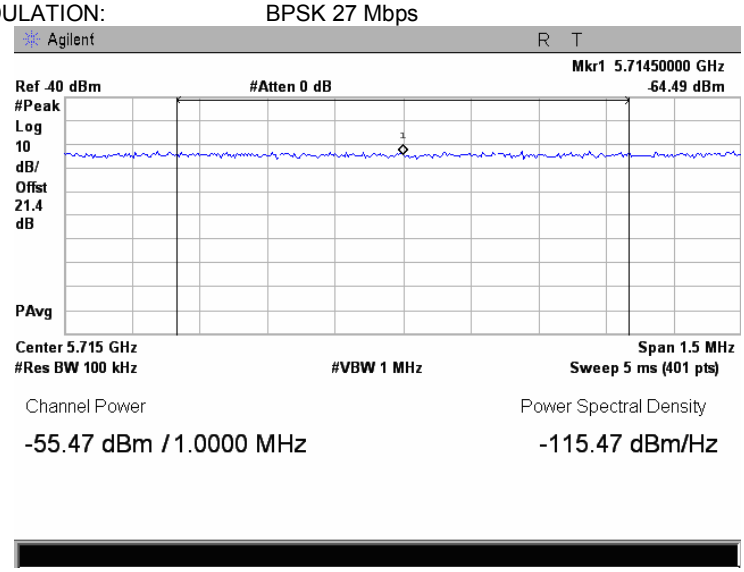
Plot 7.4.197 Conducted spurious emission measurements at the band edges in frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.198 Conducted spurious emission measurements at the band edge

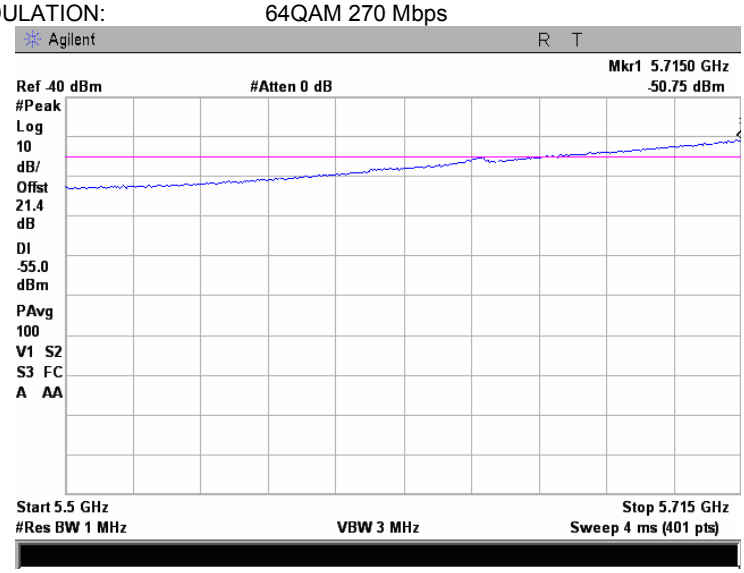
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

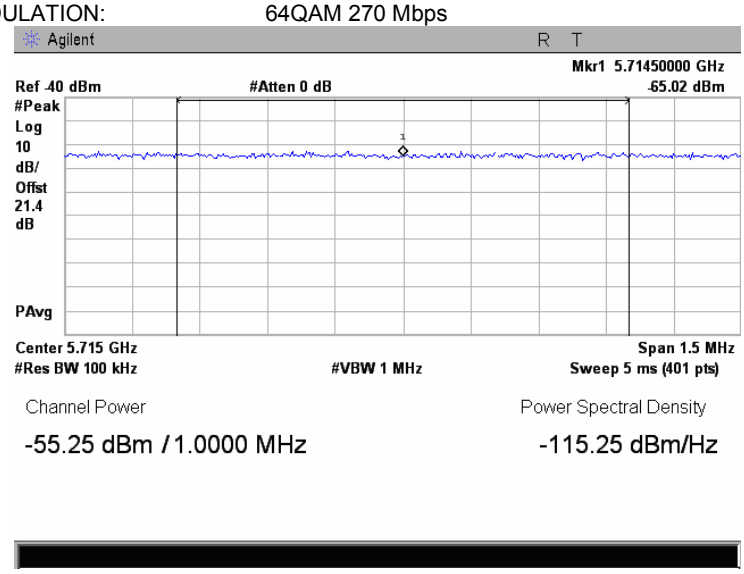
Plot 7.4.199 Conducted spurious emission measurements at the band edges in frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.200 Conducted spurious emission measurements at the band edge

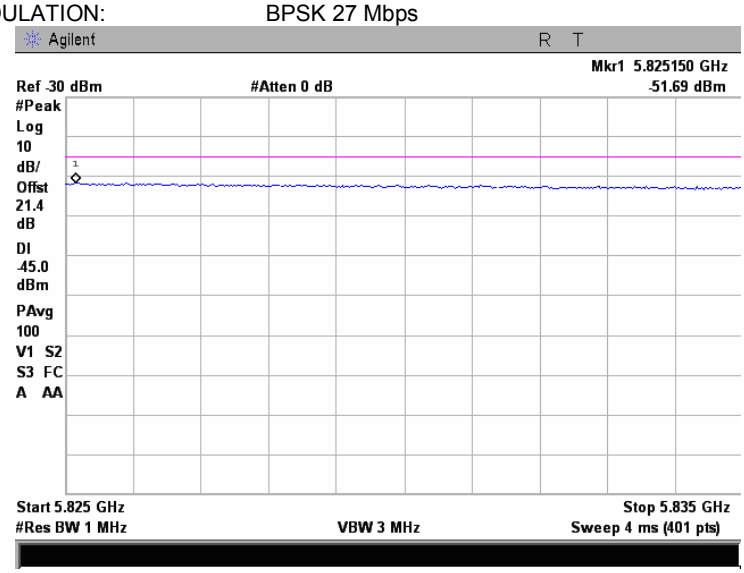
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

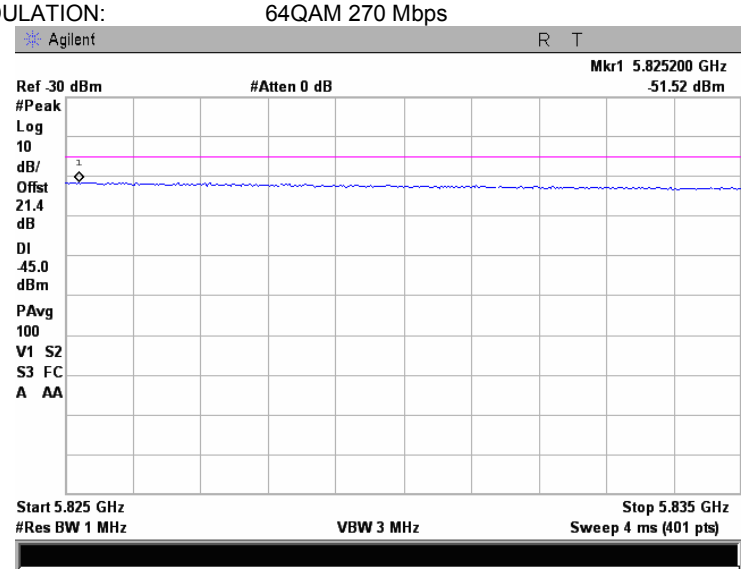
Plot 7.4.201 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.202 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

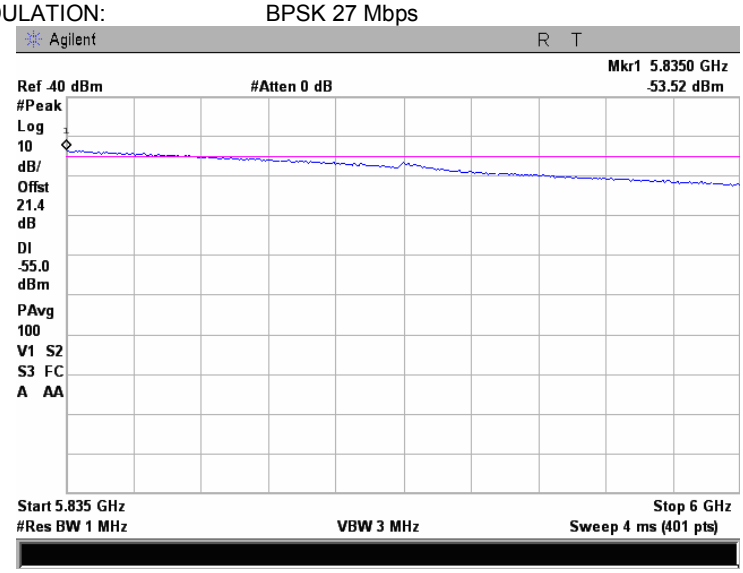
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

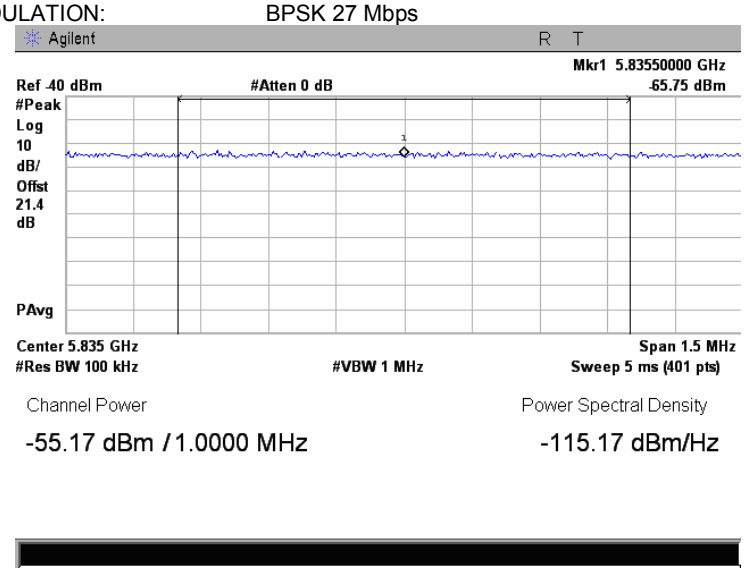
Plot 7.4.203 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.204 Conducted spurious emission measurements at the band edge

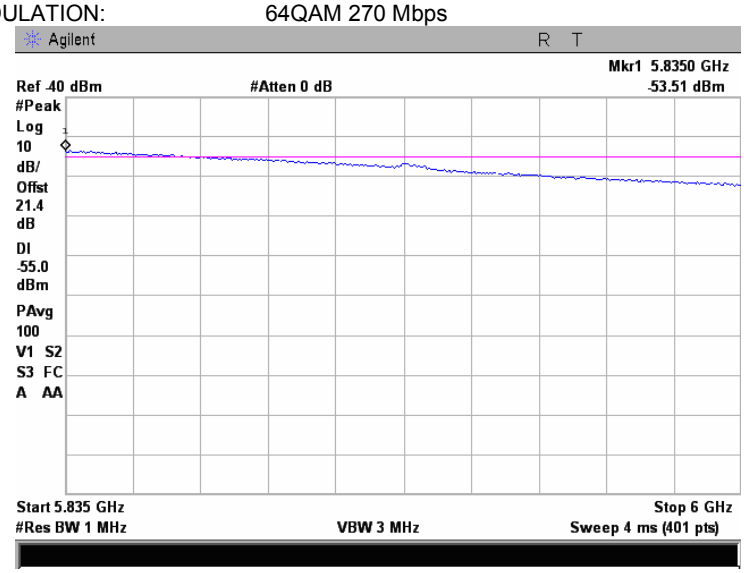
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

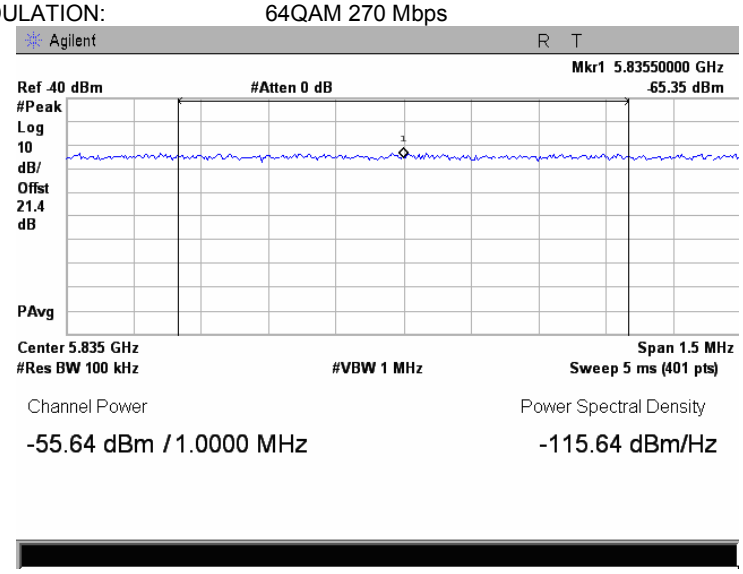
Plot 7.4.205 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.206 Conducted spurious emission measurements at the band edge

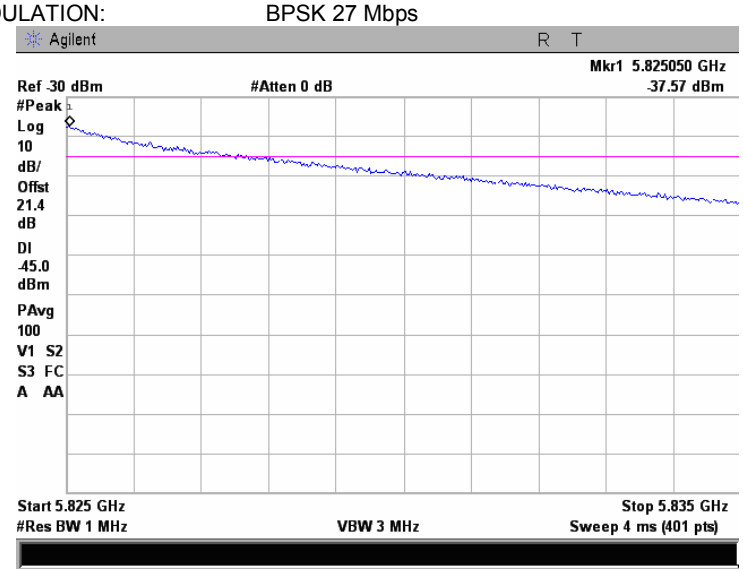
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

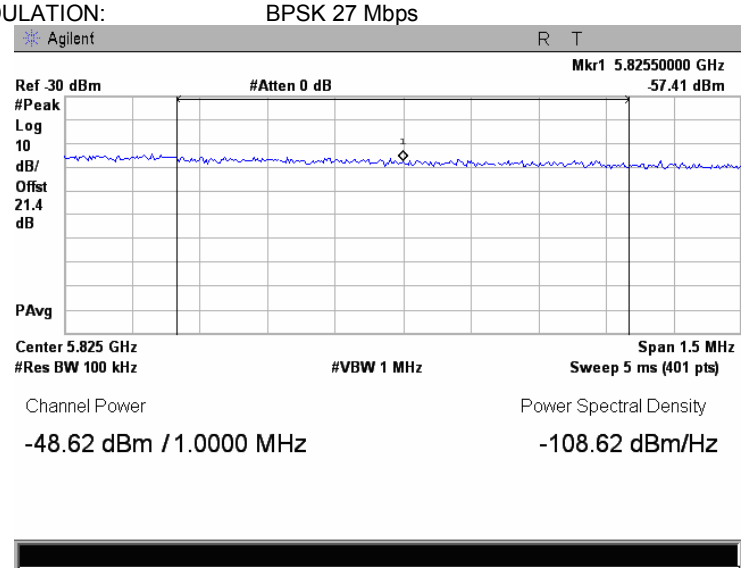
Plot 7.4.207 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.208 Conducted spurious emission measurements at the band edge

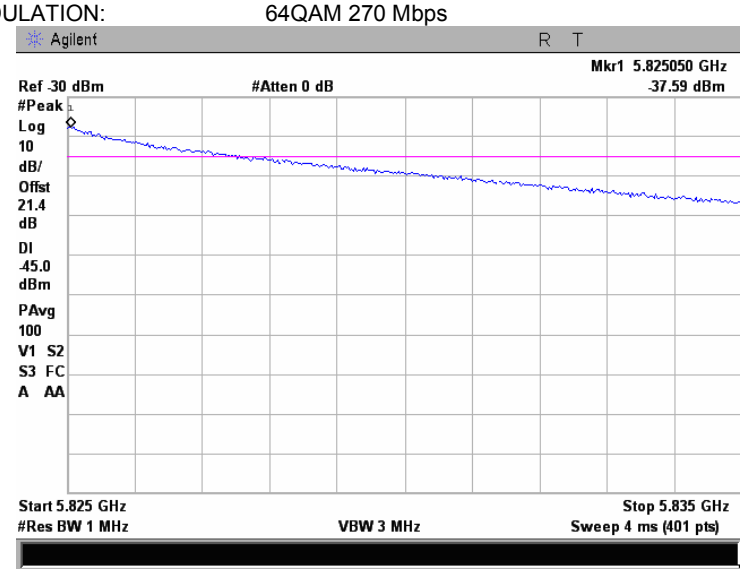
CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

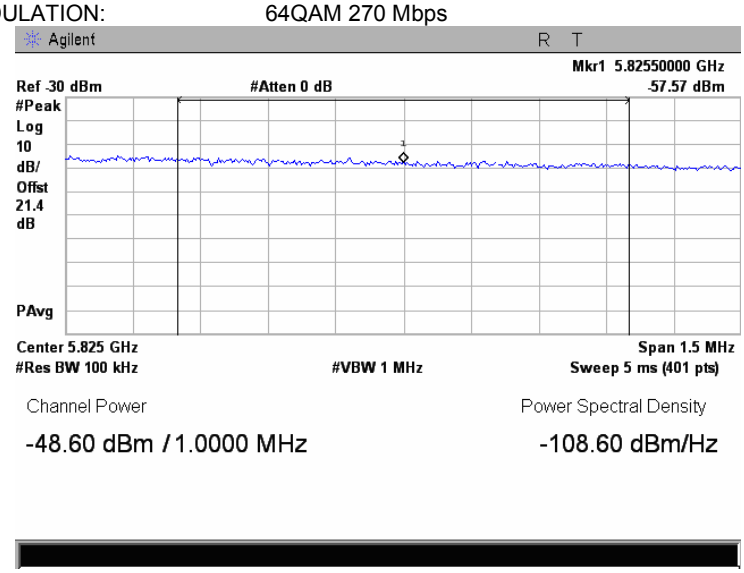
Plot 7.4.209 Conducted spurious emission measurements at the band edges in frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.4.210 Conducted spurious emission measurements at the band edge

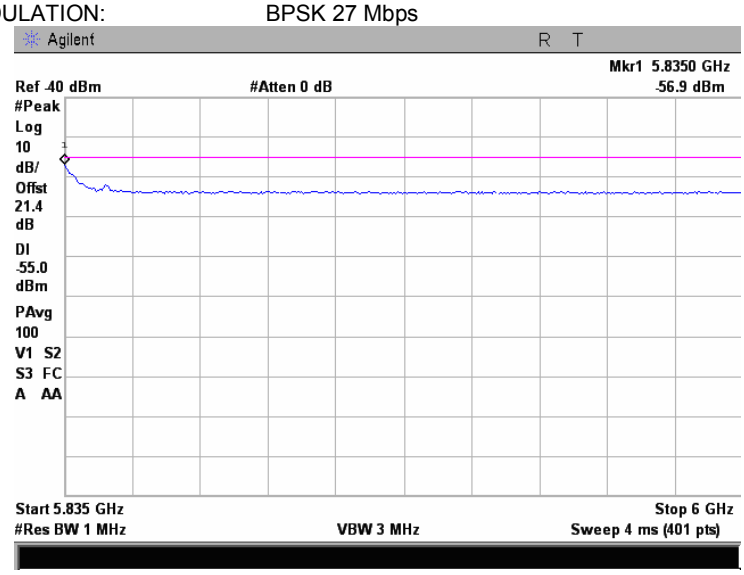
CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

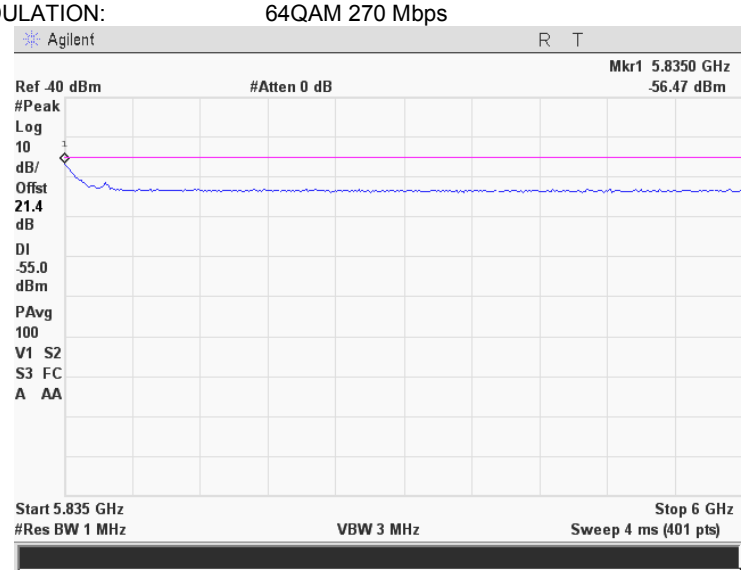
Plot 7.4.211 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.4.212 Conducted spurious emission measurements at the band edges in frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.4.11 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 28 dBi
EMISSION BANDWIDTH 20 MHz

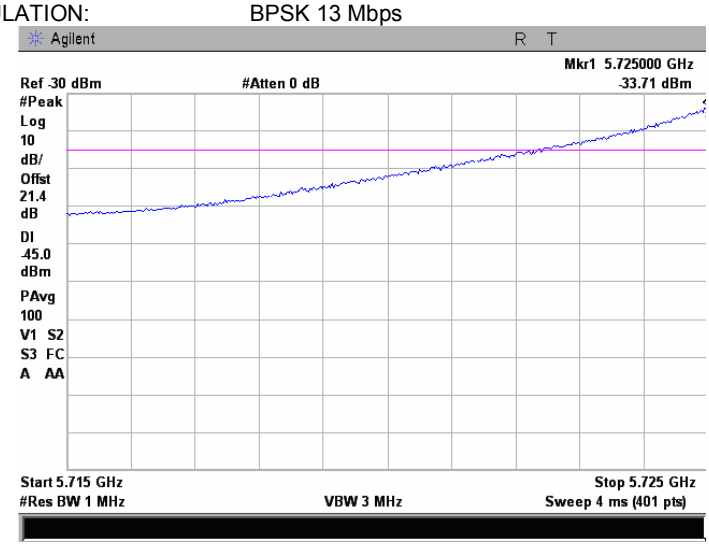
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5735	BPSK	13	20	-46.05	28.0	-18.05	-17.0	-1.05	Pass
5715.00					-62.10	28.0	-34.10	-27.0	-7.10	Pass
5724.50		64QAM	130		-45.76	28.0	-17.76	-17.0	-0.76	Pass
5715.00					-62.17	28.0	-34.17	-27.0	-7.17	Pass
Low channel In-Band										
5724.50	5755	BPSK	13	20	-49.11	28.0	-21.11	-17.0	-4.11	Pass
5715.00					-55.23	28.0	-27.23	-27.0	-0.23	Pass
5724.50		64QAM	130		-49.60	28.0	-21.60	-17.0	-4.60	Pass
5715.00					-55.16	28.0	-27.16	-27.0	-0.16	Pass
High channel In-Band										
5825.50	5795	BPSK	13	20	-51.27	28.0	-23.27	-17.0	-6.27	Pass
5835.40					-56.21	28.0	-28.21	-27.0	-1.21	Pass
5825.50		64QAM	130		-52.11	28.0	-24.11	-17.0	-7.11	Pass
5840.00					-56.42	28.0	-28.42	-27.0	-1.42	Pass
High channel Band Edge										
5825.50	5815	BPSK	13	20	-47.83	28.0	-19.83	-17.0	-2.83	Pass
5835.00					-62.73	28.0	-34.73	-27.0	-7.73	Pass
5825.50		64QAM	130		-47.77	28.0	-19.77	-17.0	-2.77	Pass
5835.40					-62.73	28.0	-34.73	-27.0	-7.73	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

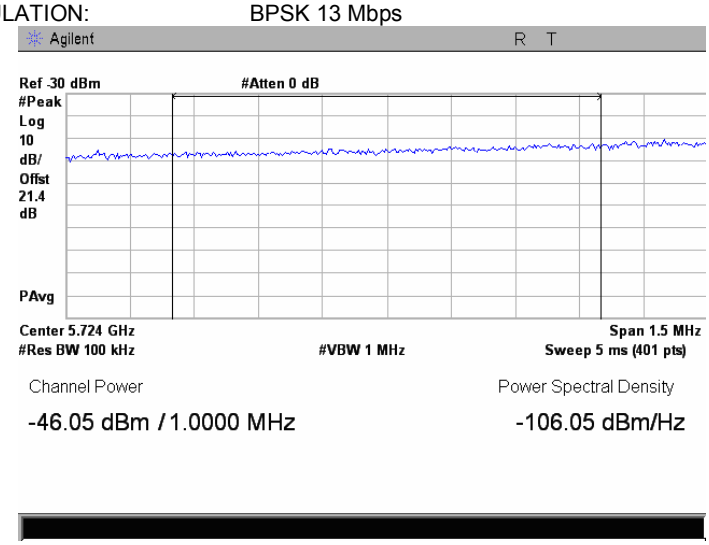
Plot 7.4.213 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.214 Conducted spurious emission measurements at the band edge

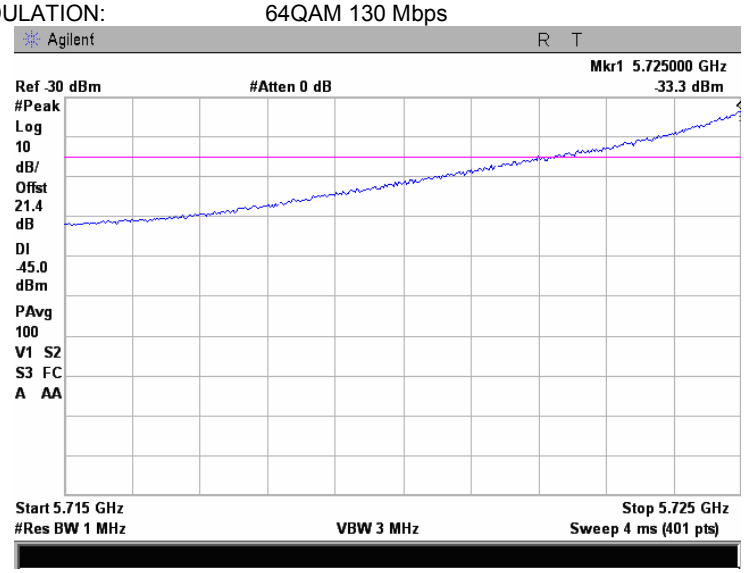
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

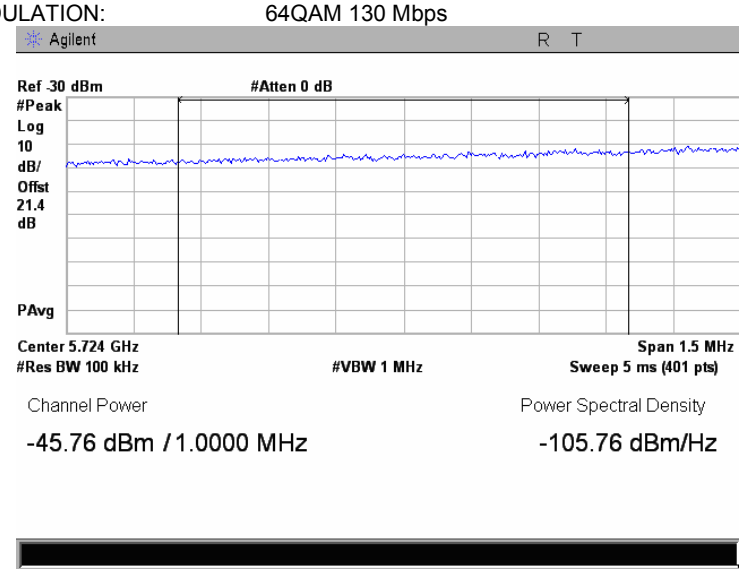
Plot 7.4.215 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.216 Conducted spurious emission measurements at the band edge

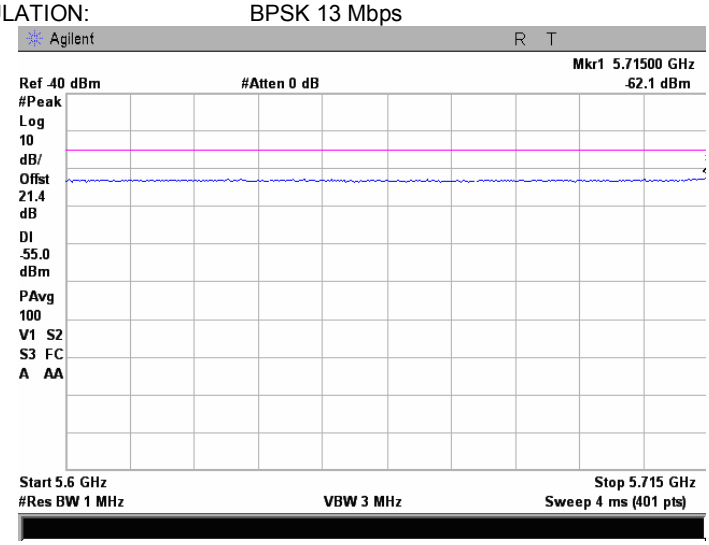
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

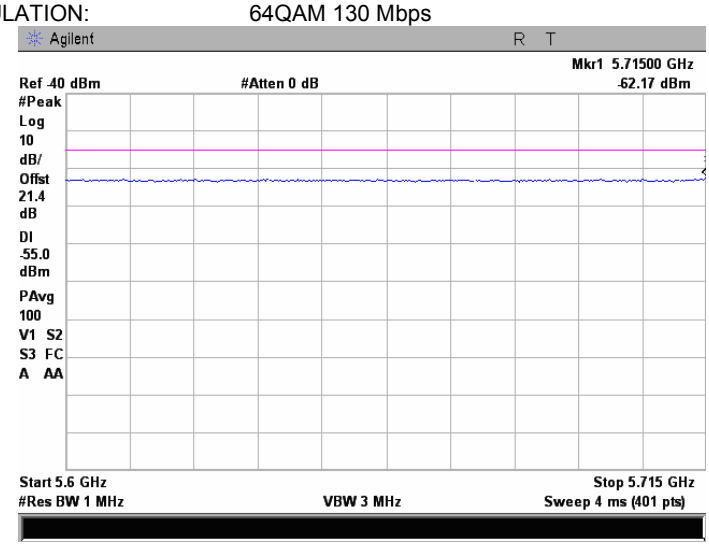
Plot 7.4.217 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.218 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

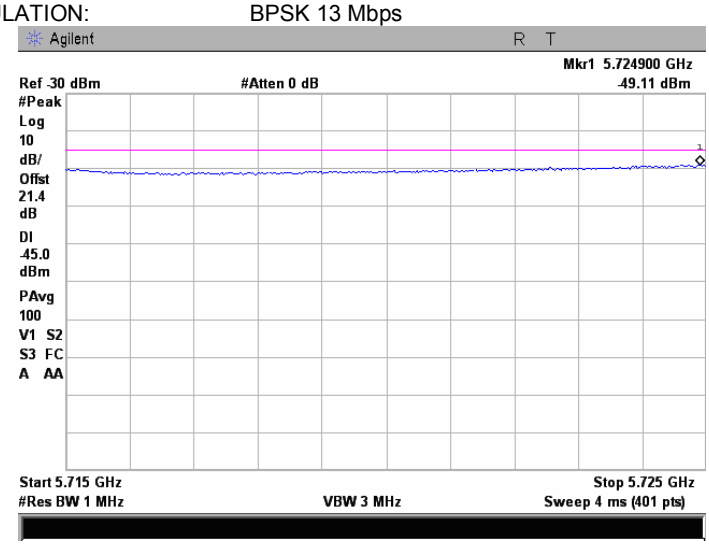
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

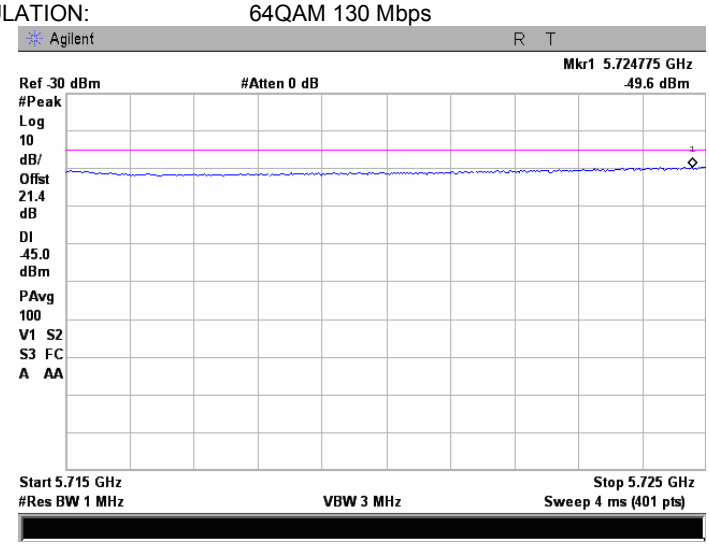
Plot 7.4.219 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.220 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

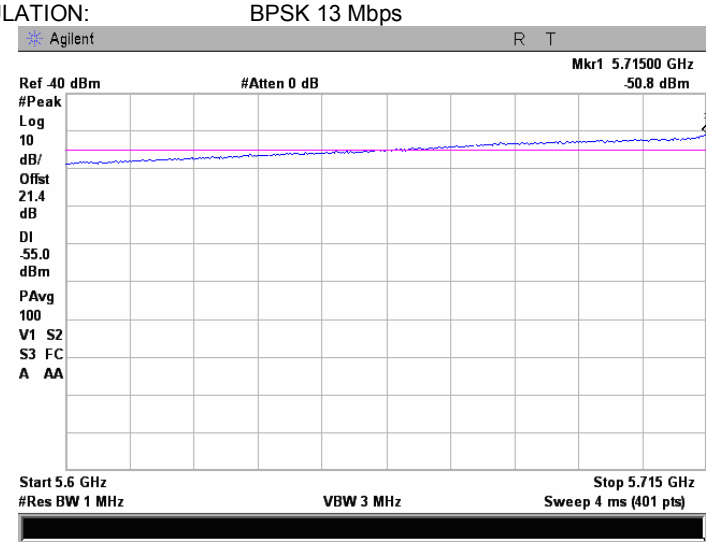
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

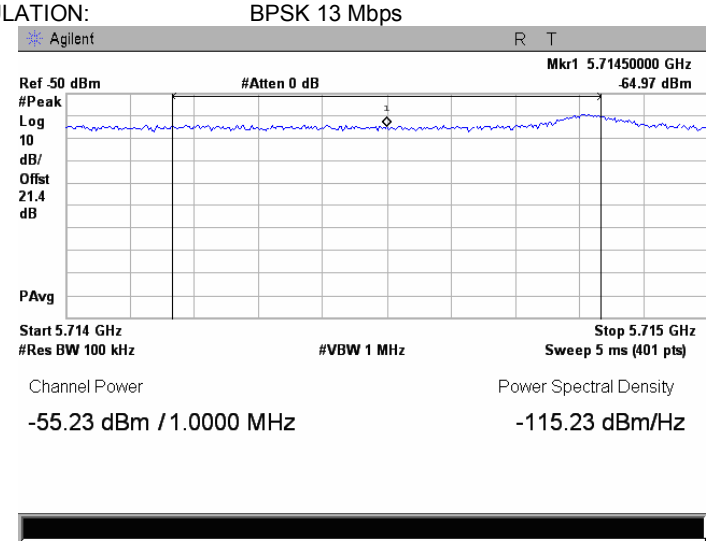
Plot 7.4.221 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.222 Conducted spurious emission measurements at the band edge

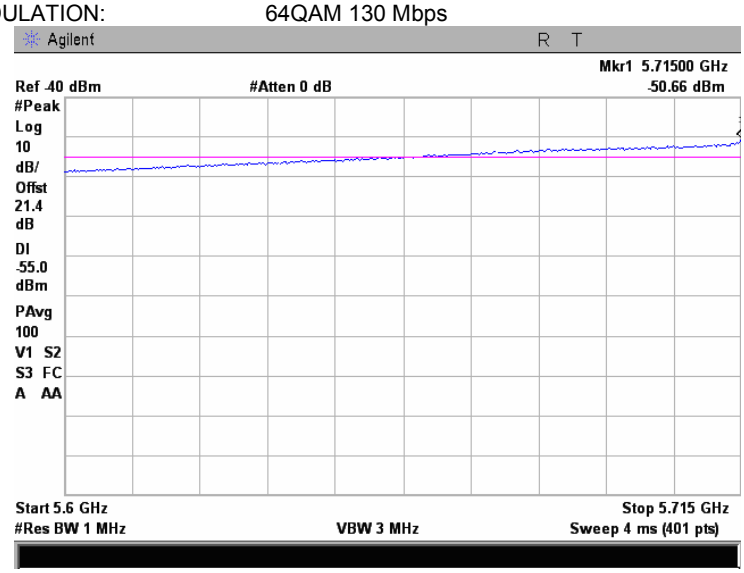
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

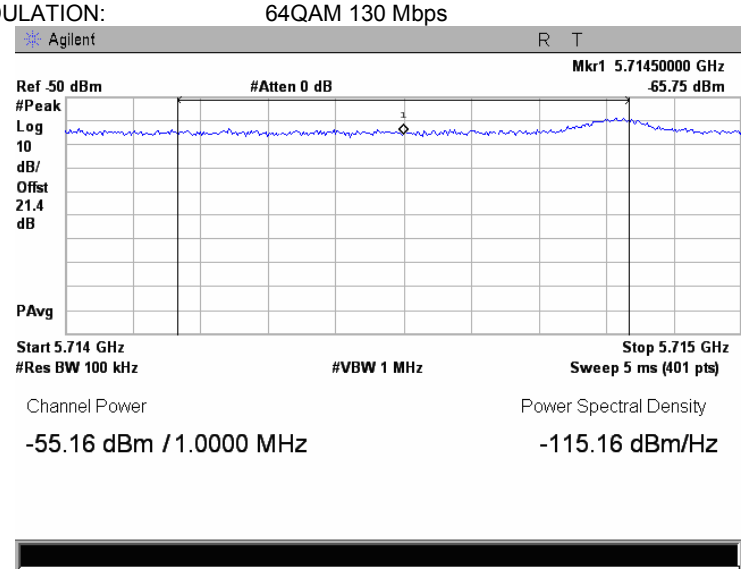
Plot 7.4.223 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.224 Conducted spurious emission measurements at the band edge

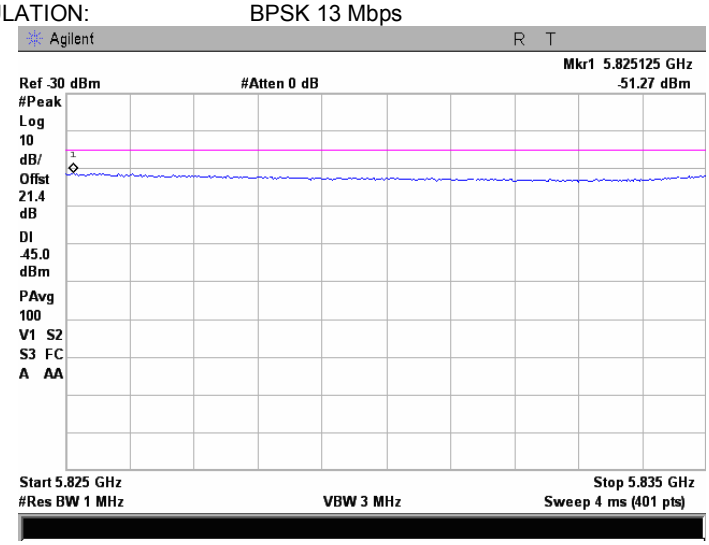
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

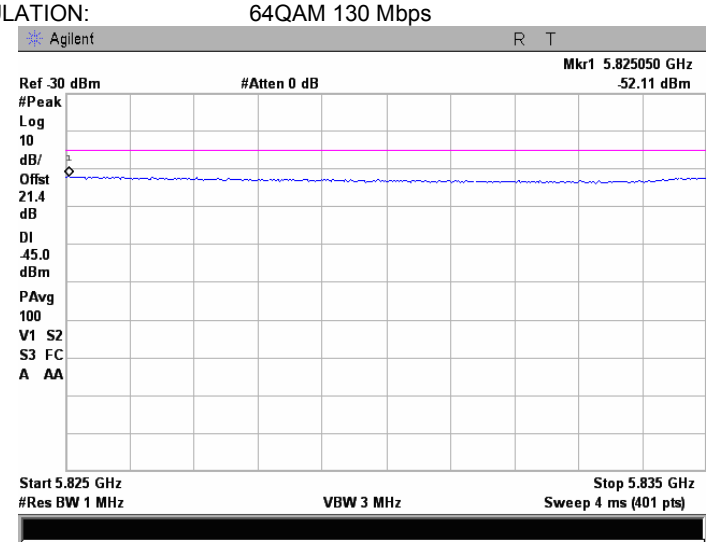
Plot 7.4.225 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.226 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

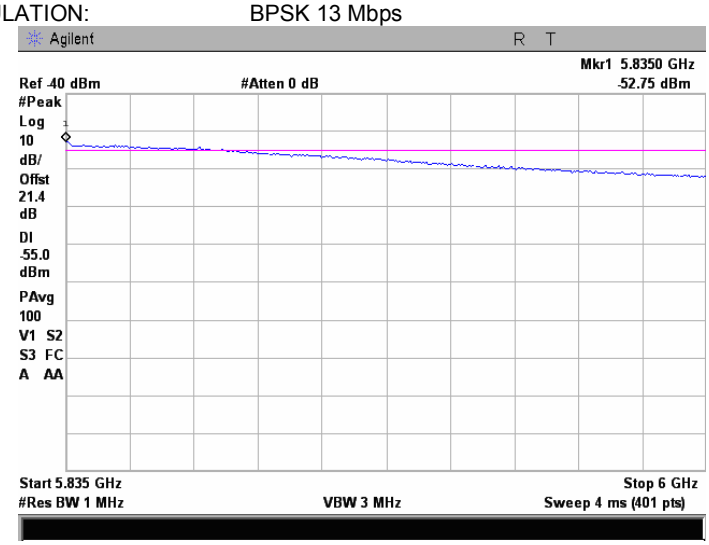
CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

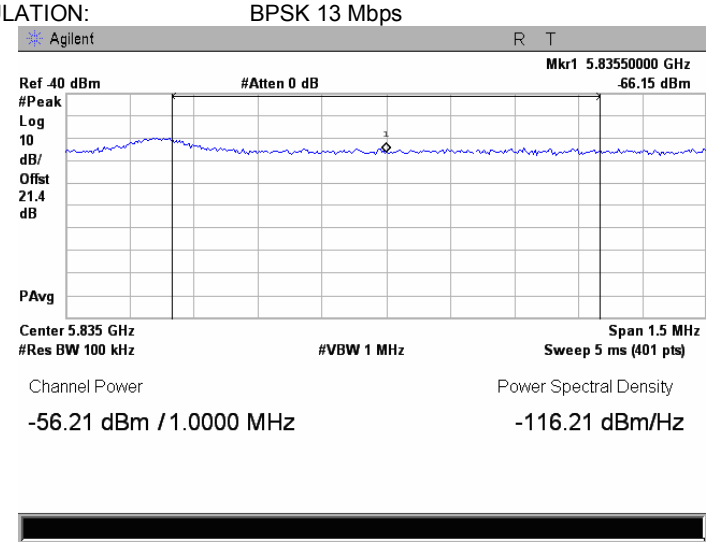
Plot 7.4.227 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.228 Conducted spurious emission measurements at the band edge

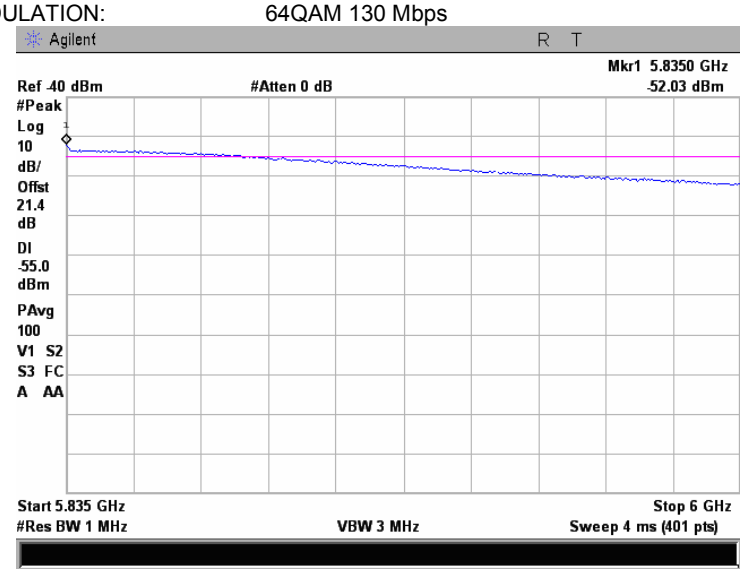
CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

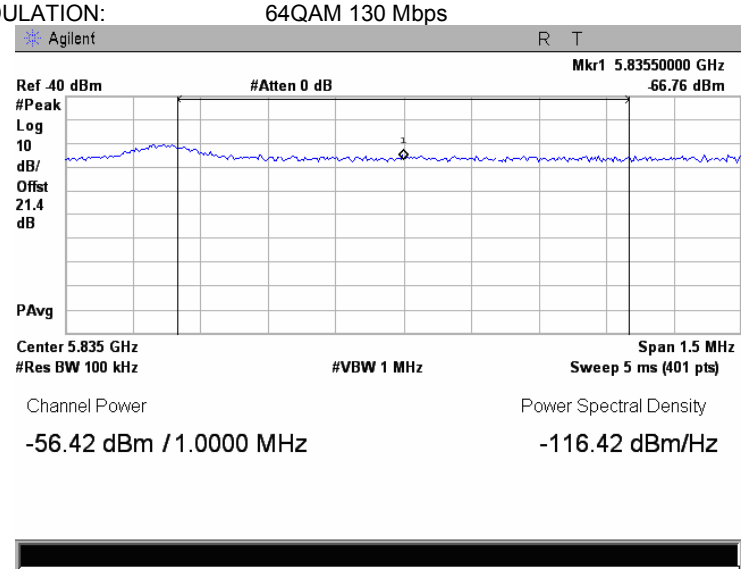
Plot 7.4.229 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.230 Conducted spurious emission measurements at the band edge

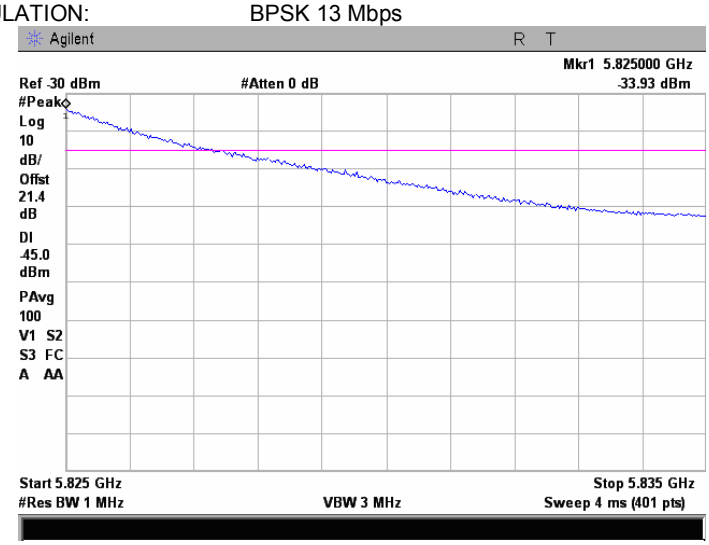
CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

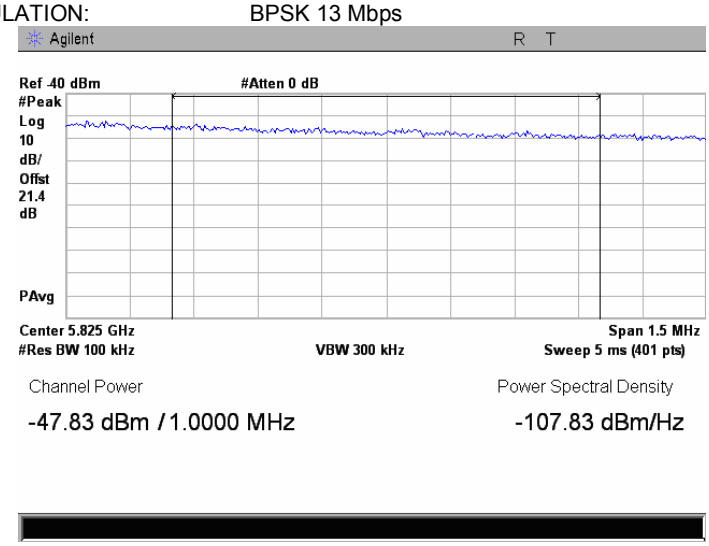
Plot 7.4.231 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.232 Conducted spurious emission measurements at the band edge

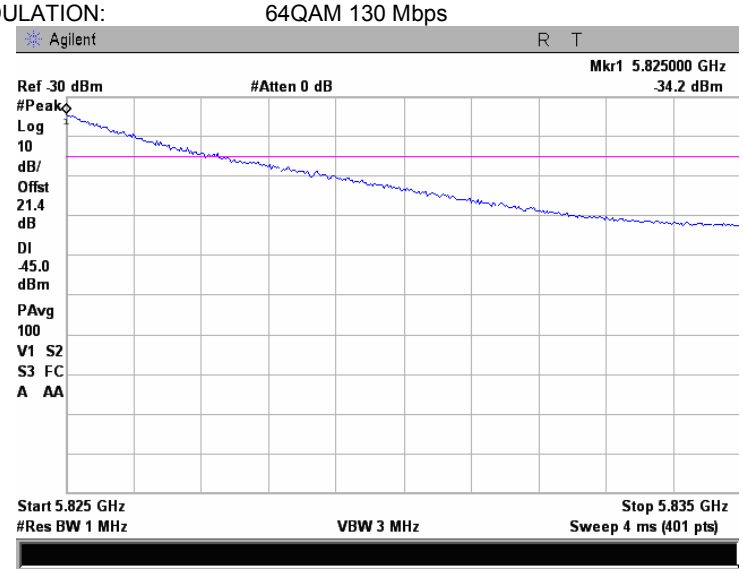
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

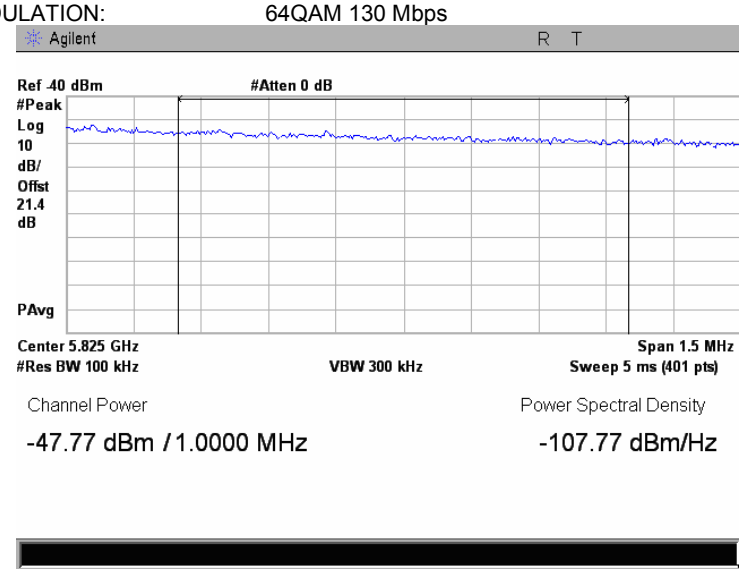
Plot 7.4.233 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.4.234 Conducted spurious emission measurements at the band edge

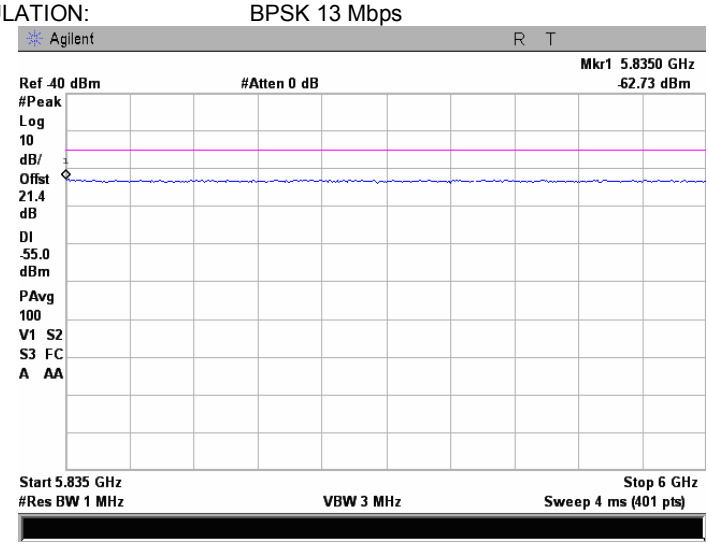
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

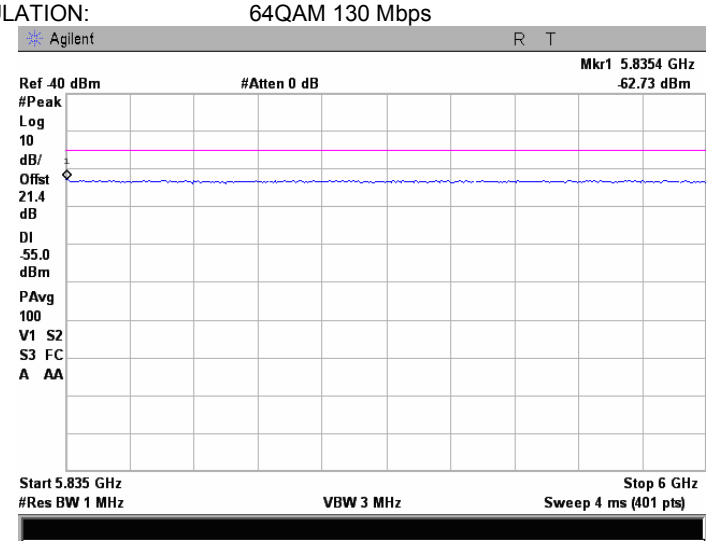
Plot 7.4.235 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.4.236 Conducted spurious emission measurements at the band edges in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.4.12 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 28 dBi
EMISSION BANDWIDTH 10 MHz

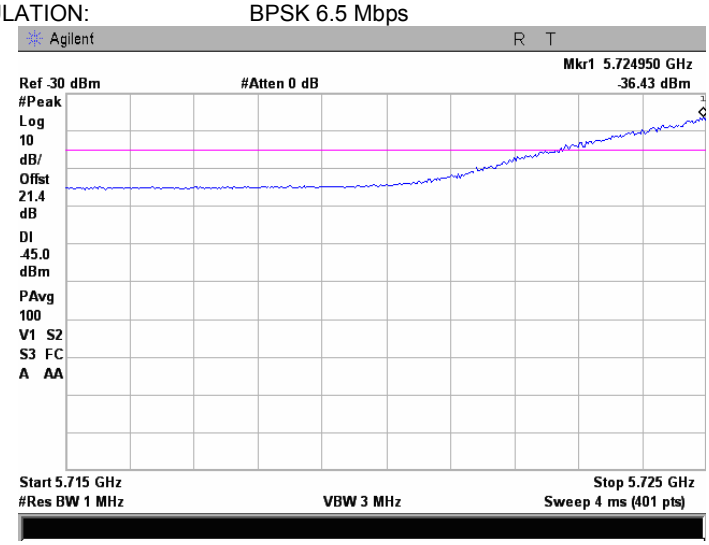
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5735	BPSK	6.5	10	-46.14	28.0	-18.14	-17.0	-1.14	Pass
5714.50					-59.03	28.0	-31.03	-27.0	-4.03	Pass
5724.50		64QAM	65		-46.79	28.0	-18.79	-17.0	-1.79	Pass
5714.50					-58.53	28.0	-30.53	-27.0	-3.53	Pass
Low channel In-Band										
5724.97	5740	BPSK	6.5	10	-45.53	28.0	-17.53	-17.0	-0.53	Pass
5714.50					-55.44	28.0	-27.44	-27.0	-0.44	Pass
5724.90		64QAM	65		-45.54	28.0	-17.54	-17.0	-0.54	Pass
5714.50					-55.35	28.0	-27.35	-27.0	-0.35	Pass
High channel In-Band										
5825.07	5810	BPSK	6.5	10	-46.03	28.0	-18.03	-17.0	-1.03	Pass
5835.50					-56.02	28.0	-28.02	-27.0	-1.02	Pass
5849.97					-55.28	28.0	-27.28	-27.0	-0.28	Pass
5886.20					-58.28	28.0	-30.28	-27.0	-3.28	Pass
5825.05		64QAM	65		-47.38	28.0	-19.38	-17.0	-2.38	Pass
5835.50					-55.52	28.0	-27.52	-27.0	-0.52	Pass
5849.97					-55.50	28.0	-27.50	-27.0	-0.50	Pass
High channel Band Edge										
5825.50	5815	BPSK	6.5	10	-47.19	28.0	-19.19	-17.0	-2.19	Pass
5845.70					-56.51	28.0	-28.51	-27.0	-1.51	Pass
5825.50		64QAM	65		-47.17	28.0	-19.17	-17.0	-2.17	Pass
5835.40					-55.92	28.0	-27.92	-27.0	-0.92	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

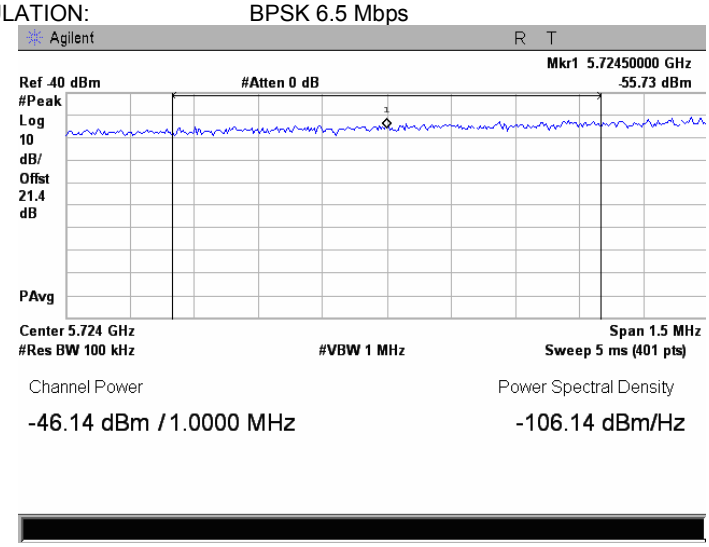
Plot 7.4.237 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.238 Conducted spurious emission measurements at the band edge

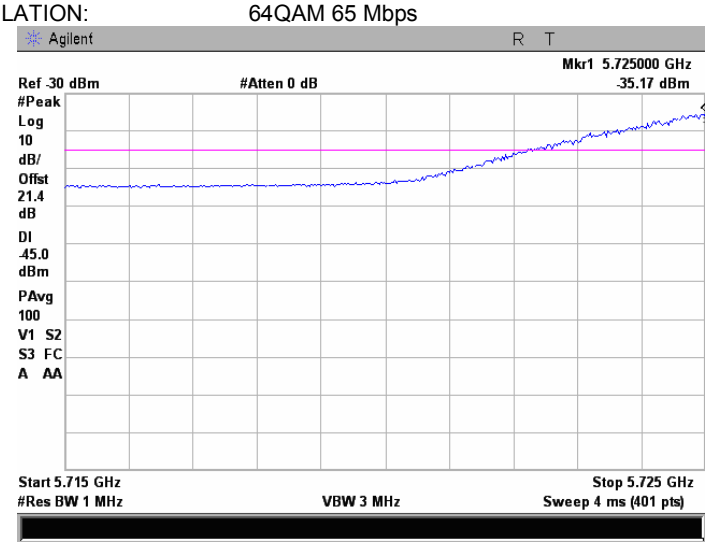
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

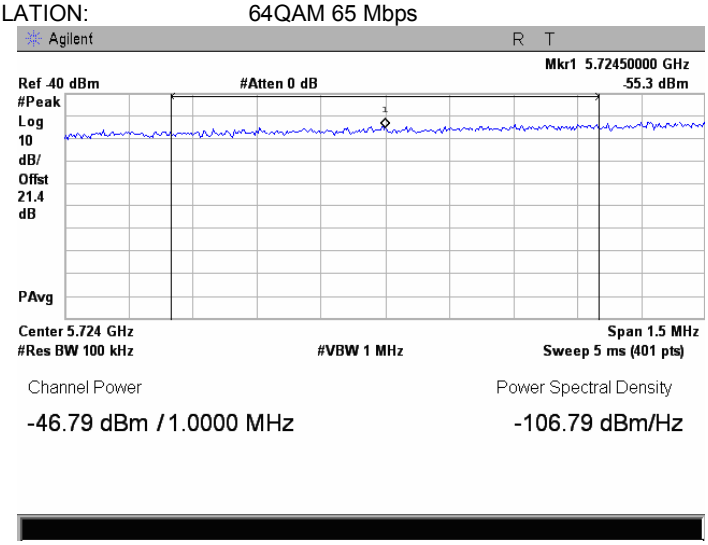
Plot 7.4.239 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.240 Conducted spurious emission measurements at the band edge

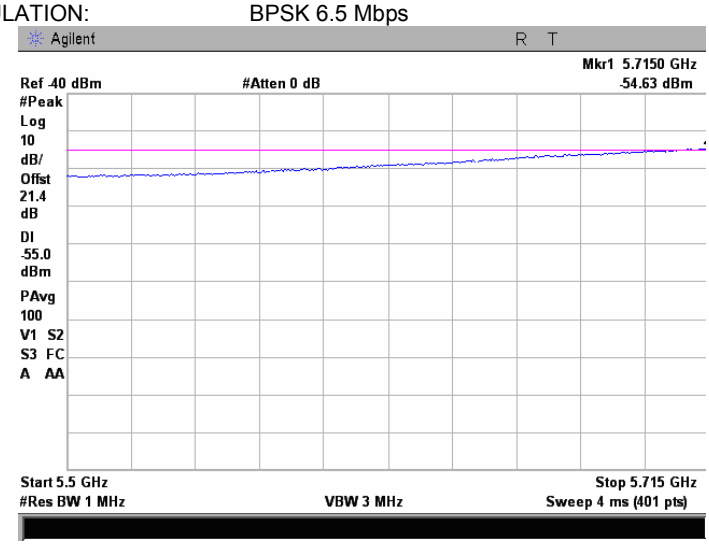
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

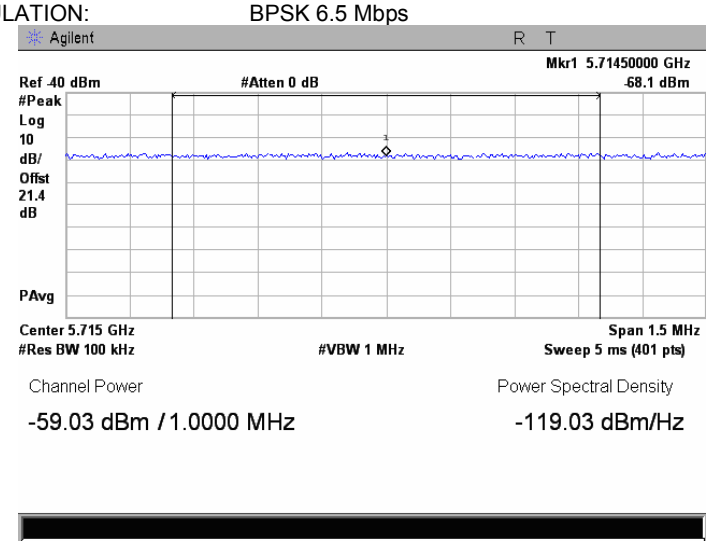
Plot 7.4.241 Conducted spurious emission measurements at the band edges in the frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.242 Conducted spurious emission measurements at the band edge

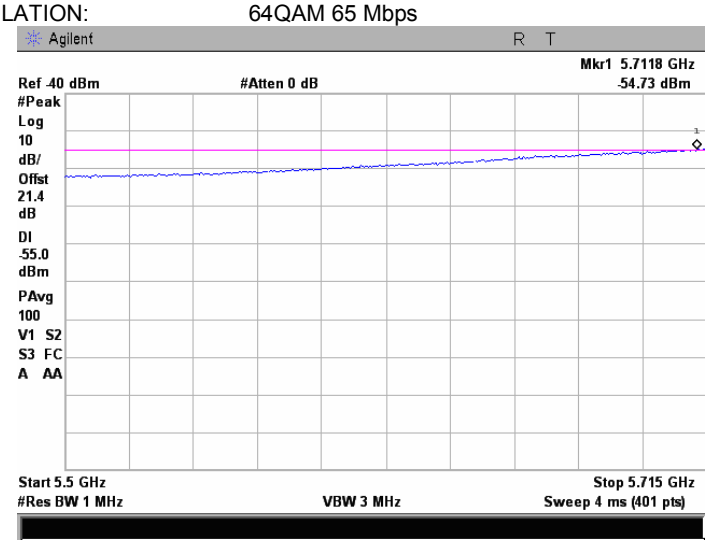
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

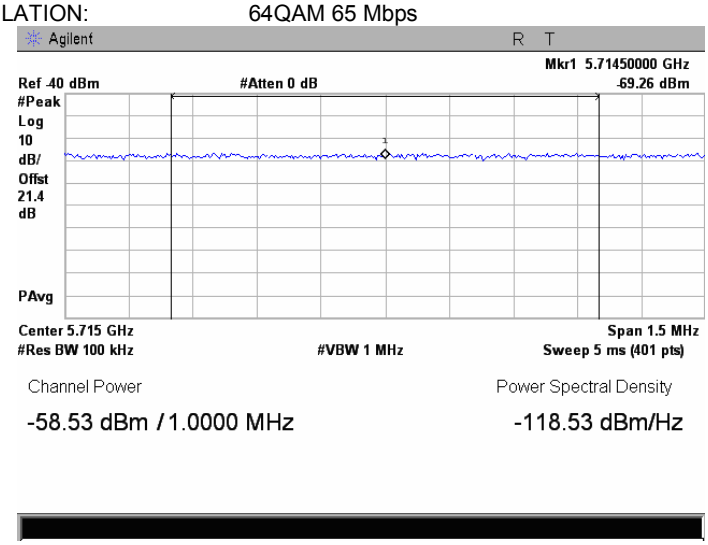
Plot 7.4.243 Conducted spurious emission measurements at the band edges in the frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.244 Conducted spurious emission measurements at the band edge

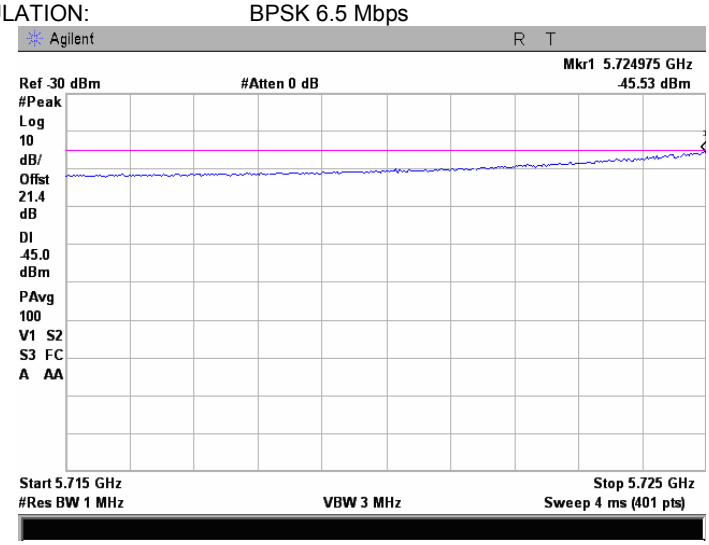
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

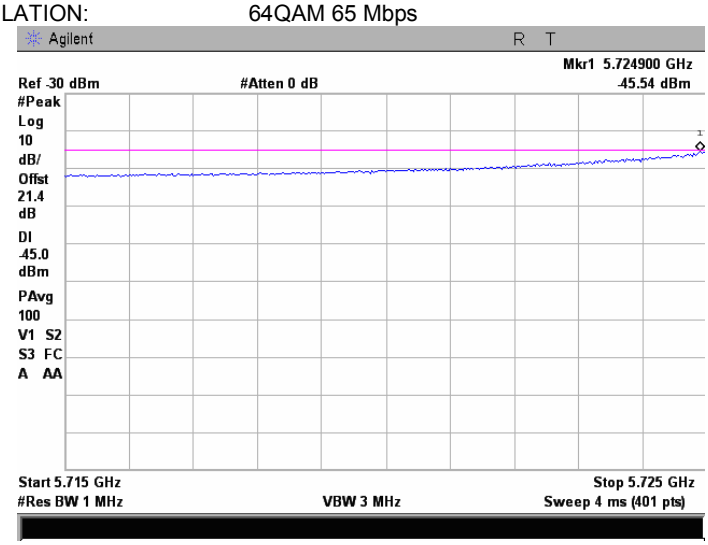
Plot 7.4.245 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.246 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

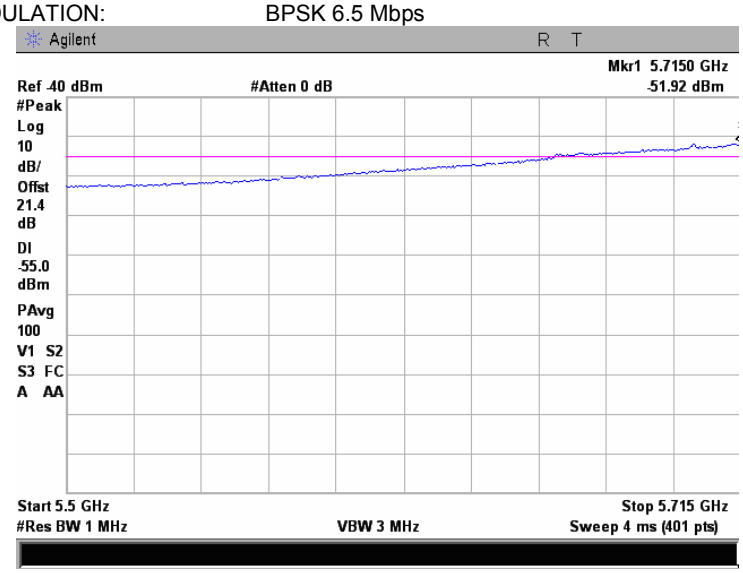
CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

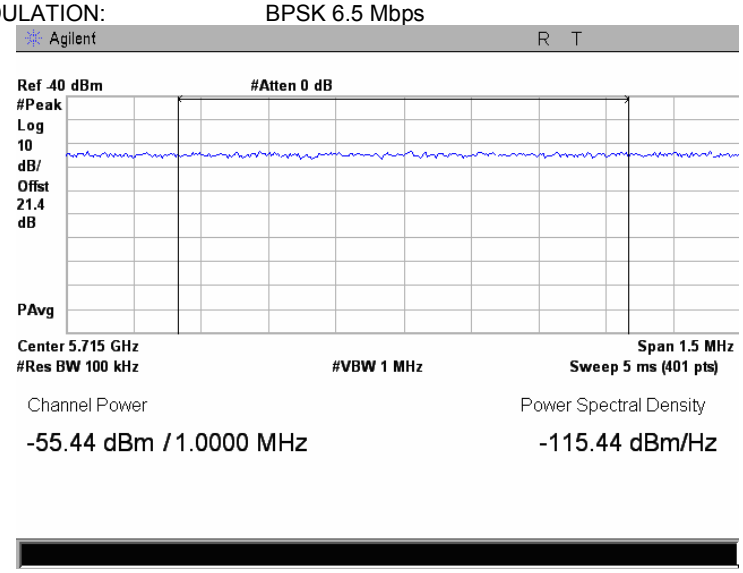
Plot 7.4.247 Conducted spurious emission measurements in the frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.248 Conducted spurious emission measurements at the band edges

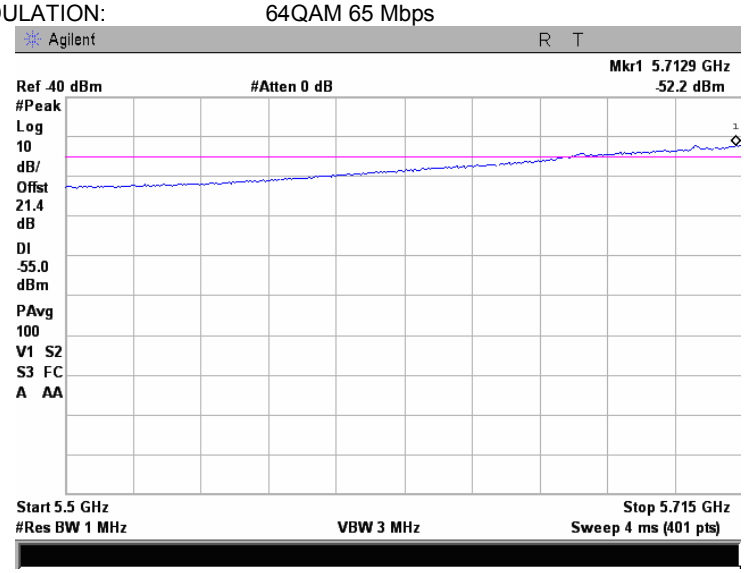
CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

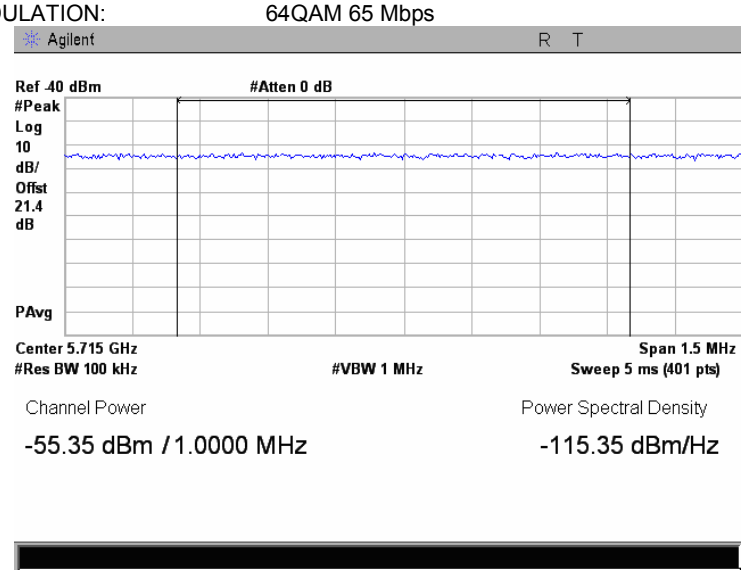
Plot 7.4.249 Conducted spurious emission measurements in the frequency range 5500 – 5715 MHz

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.250 Conducted spurious emission measurements at the band edges

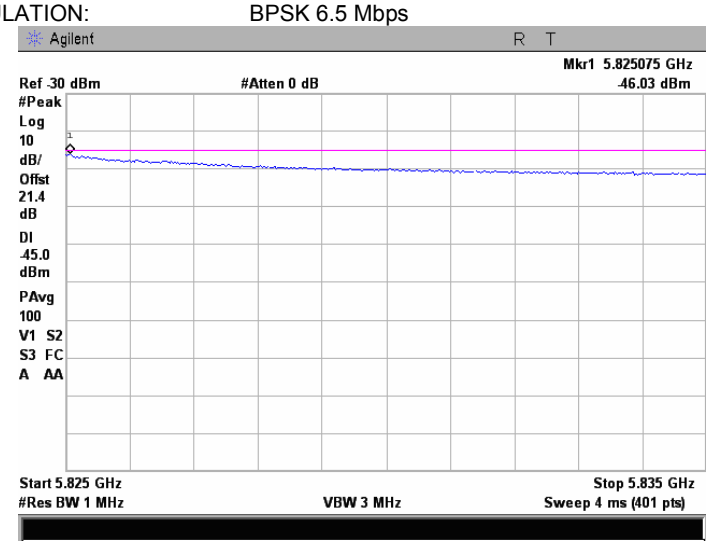
CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

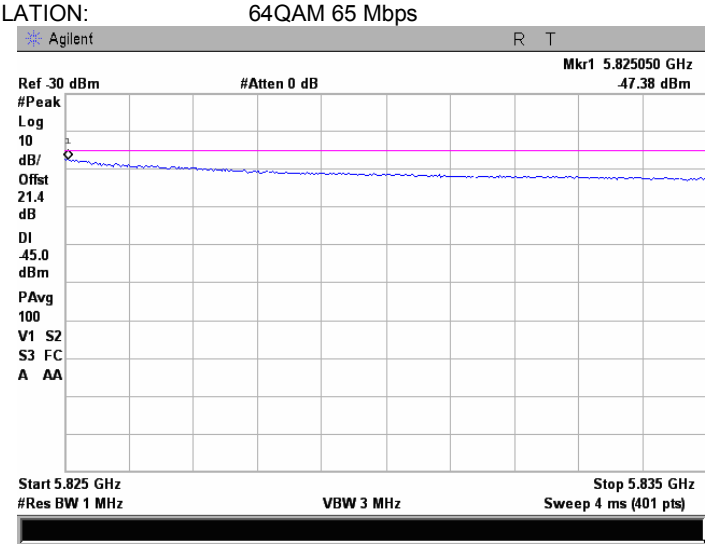
Plot 7.4.251 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.252 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

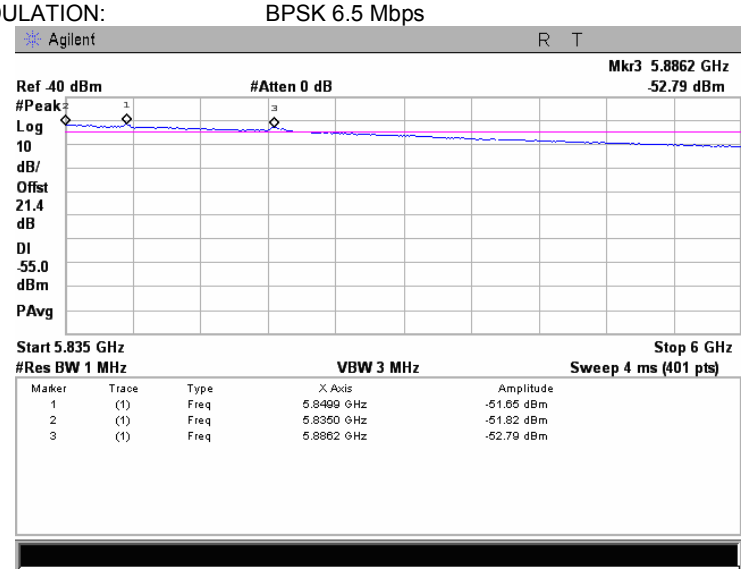
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2** **Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

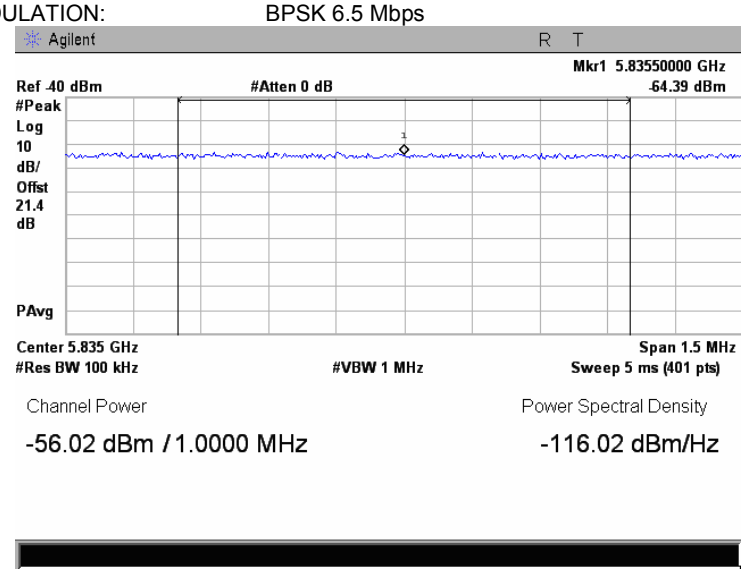
Plot 7.4.253 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.254 Conducted spurious emission measurements at the band edges

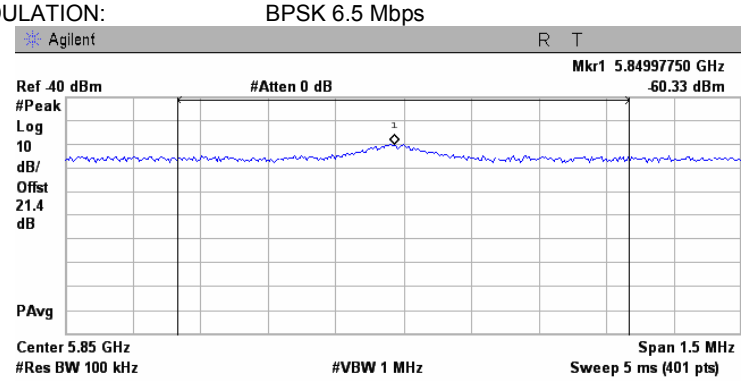
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

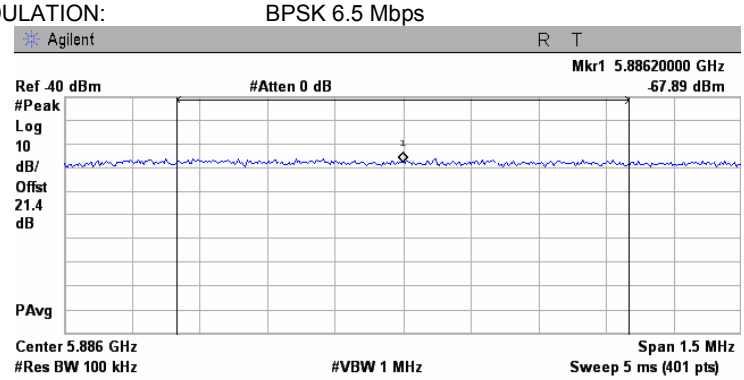
Plot 7.4.255 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.256 Conducted spurious emission measurements at the band edges

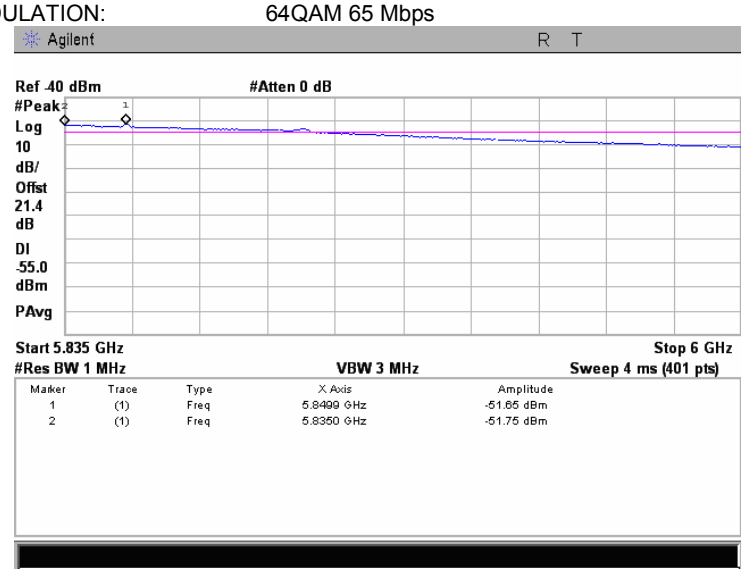
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

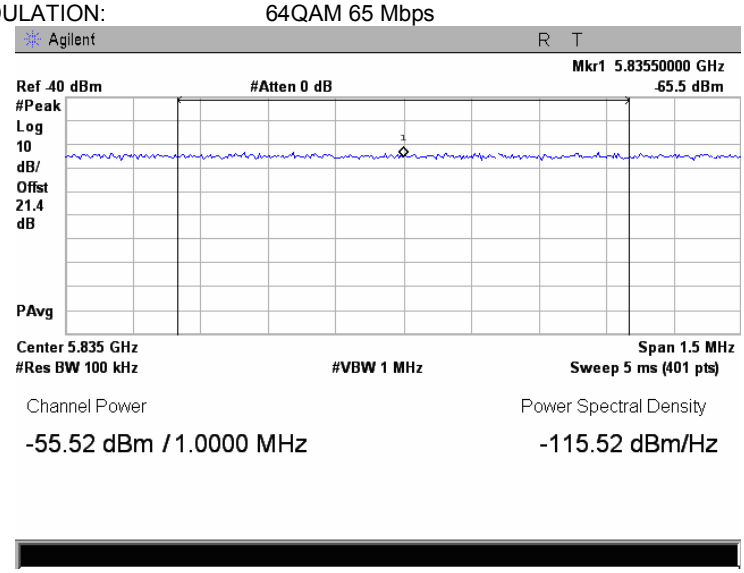
Plot 7.4.257 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.258 Conducted spurious emission measurements at the band edges

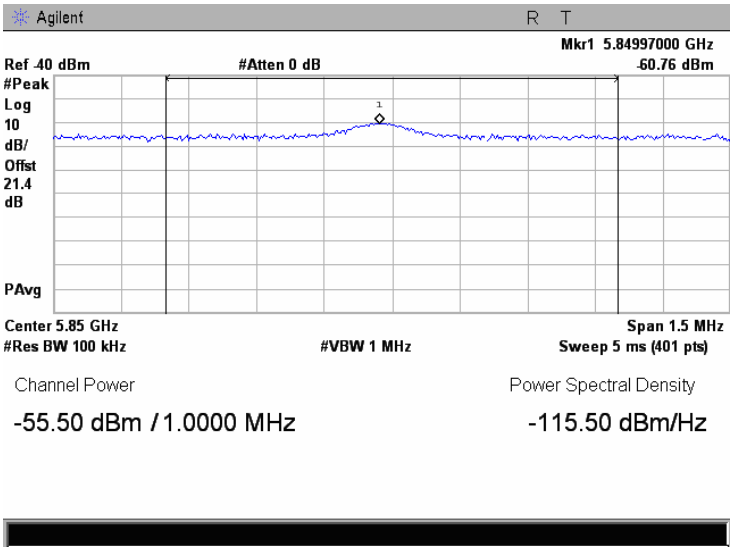
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.4.259 Conducted spurious emission measurements at the band edges

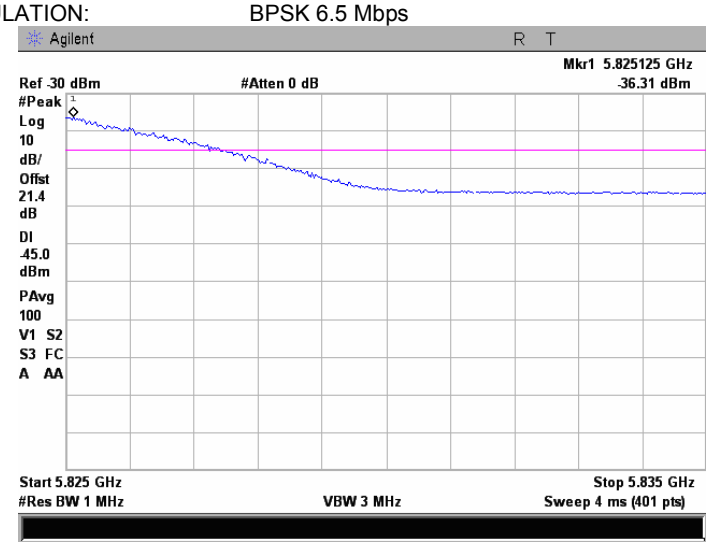
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

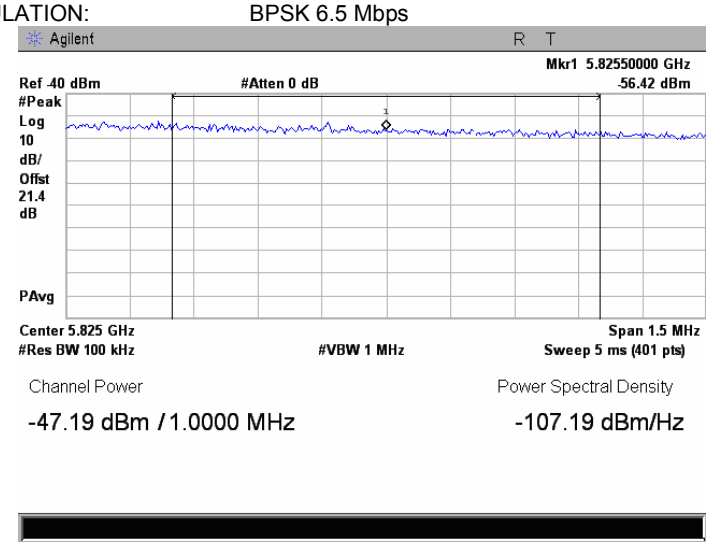
Plot 7.4.260 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.261 Conducted spurious emission measurements at the band edges

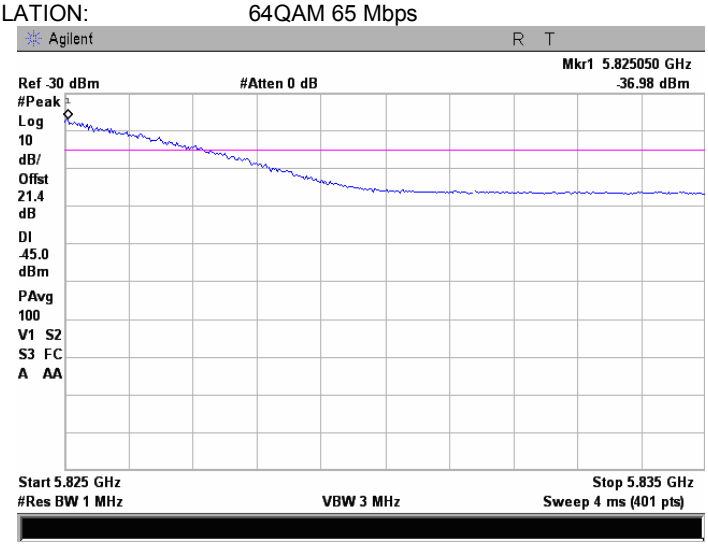
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

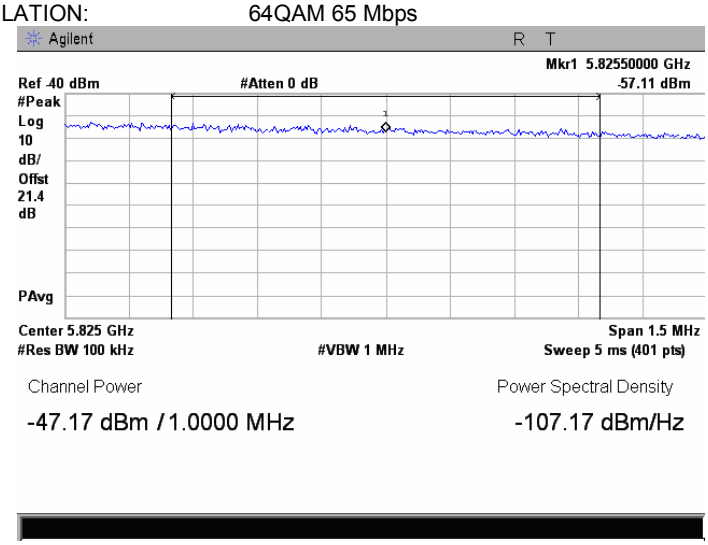
Plot 7.4.262 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.4.263 Conducted spurious emission measurements at the band edges

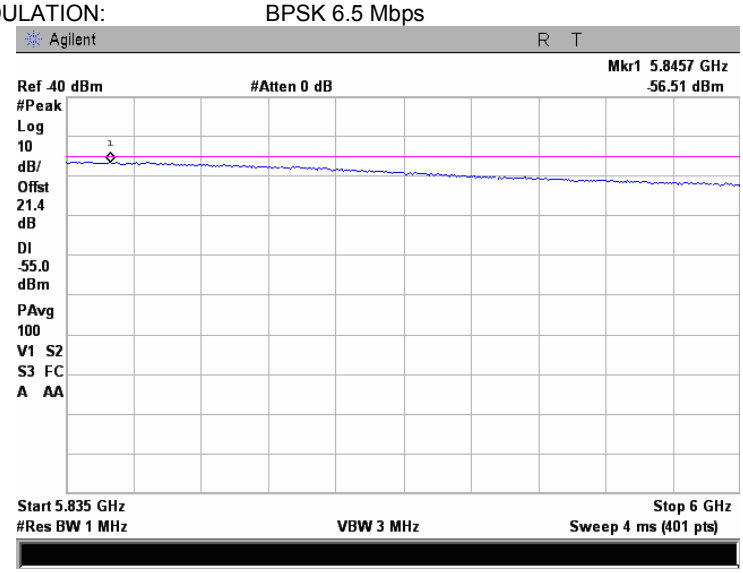
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

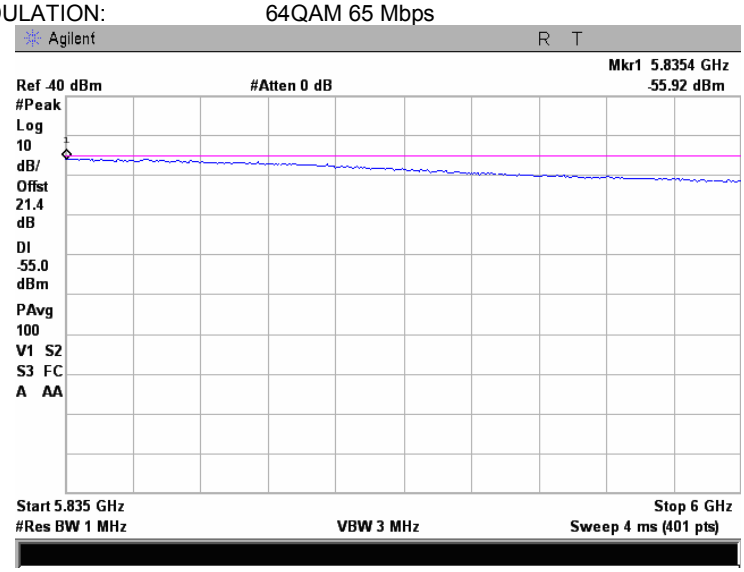
Plot 7.4.264 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.4.265 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.4.13 Conducted spurious emission test results

ASSIGNED FREQUENCY RANGE: 5725 – 5825 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH 1000 kHz
VIDEO BANDWIDTH: 3000 kHz
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
ANTENNA ASSEMBLY GAIN 28 dBi
EMISSION BANDWIDTH 5 MHz

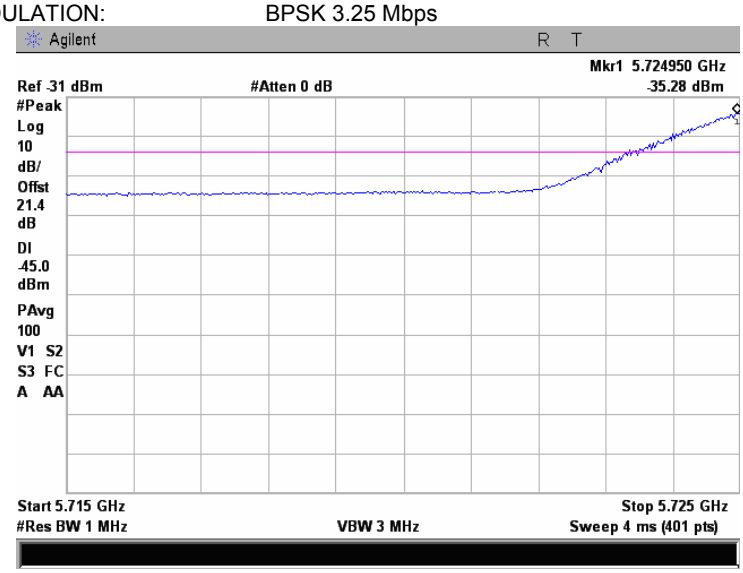
Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Antenna assembly gain, dBi	EIRP, dBm/MHz	Limit*, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
Low channel In-Band										
5724.50	5730	BPSK	3.25	5	-46.80	28.0	-18.80	-17.0	-1.80	Pass
5688.26					-55.48	28.0	-27.48	-27.0	-0.48	Pass
5691.76					-56.99	28.0	-28.99	-27.0	-1.99	Pass
5724.50		64QAM	32.5		-46.11	28.0	-18.11	-17.0	-1.11	Pass
5688.84					-55.81	28.0	-27.81	-27.0	-0.81	Pass
5691.76					-56.76	28.0	-28.76	-27.0	-1.76	Pass
Low channel In-Band										
5715.00	5735	BPSK	3.25	5	-55.80	28.0	-27.80	-27.0	-0.80	Pass
5693.21					-56.51	28.0	-28.51	-27.0	-1.51	Pass
5696.70					-55.23	28.0	-27.23	-27.0	-0.23	Pass
5713.28		64QAM	32.5		-56.17	28.0	-28.17	-27.0	-1.17	Pass
5693.21					-56.57	28.0	-28.57	-27.0	-1.57	Pass
5696.70					-55.19	28.0	-27.19	-27.0	-0.19	Pass
High channel In-Band										
5853.20	5815	BPSK	3.25	5	-56.61	28.0	-28.61	-27.0	-1.61	Pass
5866.90					-55.52	28.0	-27.52	-27.0	-0.52	Pass
5853.20		64QAM	32.5		-56.09	28.0	-28.09	-27.0	-1.09	Pass
5856.90					-55.93	28.0	-27.93	-27.0	-0.93	Pass
High channel Band Edge										
5825.50	5820	BPSK	3.25	5	-47.36	28.0	-19.36	-17.0	-2.36	Pass
5835.00					-56.35	28.0	-28.35	-27.0	-1.35	Pass
5858.10					-55.10	28.0	-27.10	-27.0	-0.10	Pass
5825.50		64QAM	32.5		-46.70	28.0	-18.70	-17.0	-1.70	Pass
5835.00					-55.60	28.0	-27.60	-27.0	-0.60	Pass
5858.50					-57.92	28.0	-29.92	-27.0	-2.92	Pass

* - EIRP = SA reading (dBm) + Antenna assembly gain;
**- Margin = EIRP of spurious –specified limit.

Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

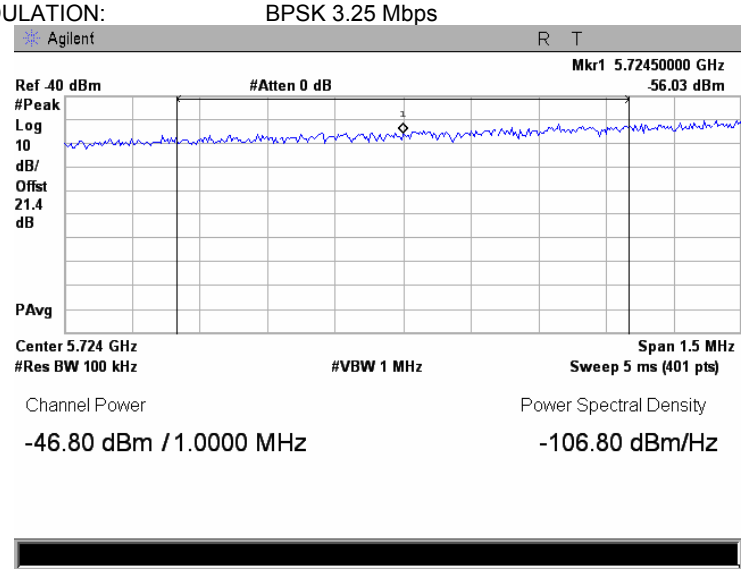
Plot 7.4.266 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.267 Conducted spurious emission measurements at the band edge

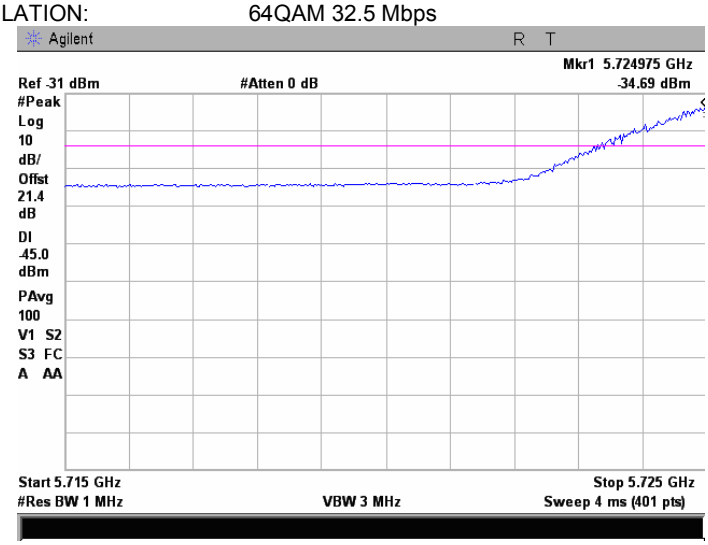
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

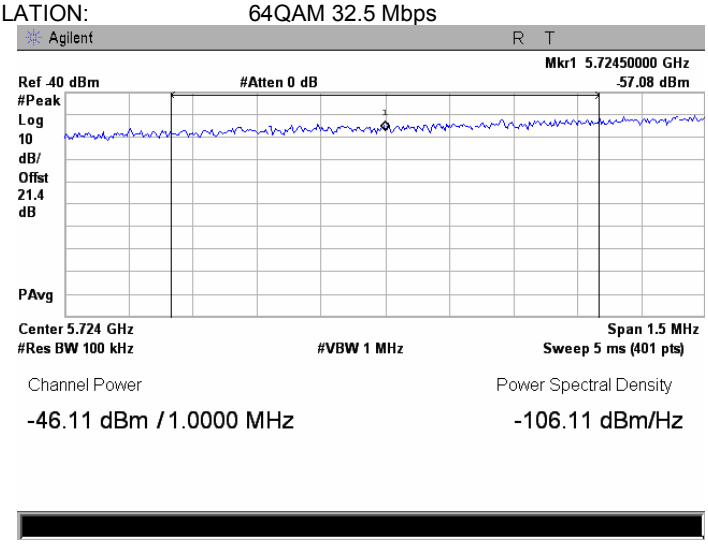
Plot 7.4.268 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.269 Conducted spurious emission measurements at the band edge

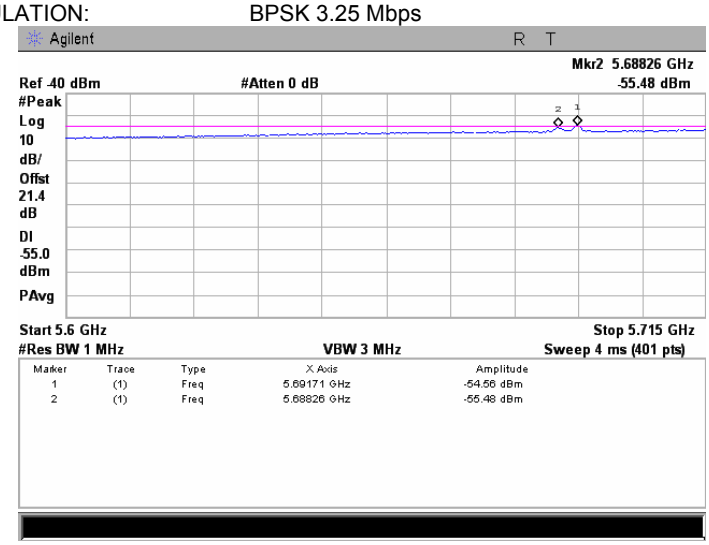
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2** **Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

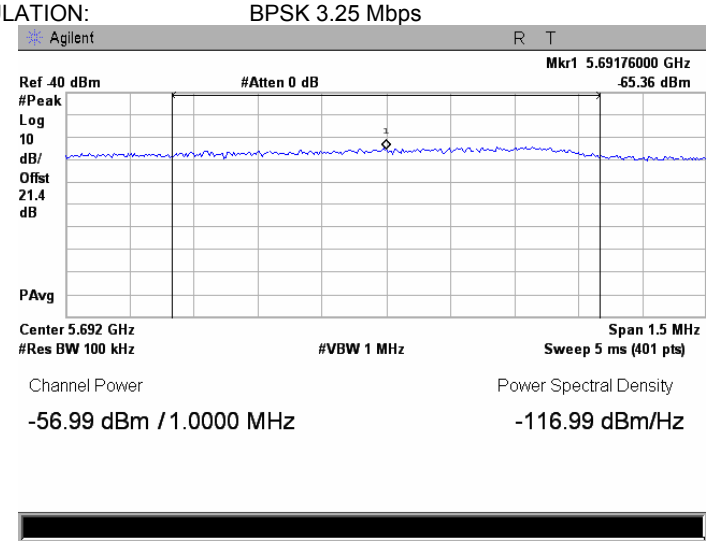
Plot 7.4.270 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.271 Conducted spurious emission measurements at the band edge

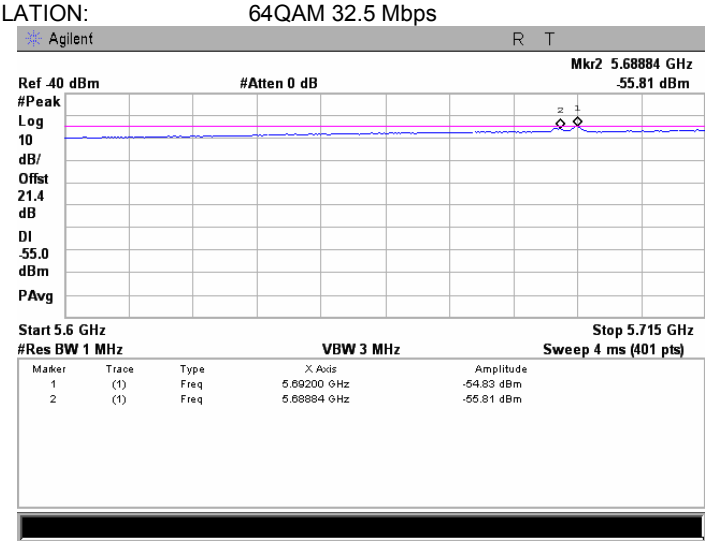
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

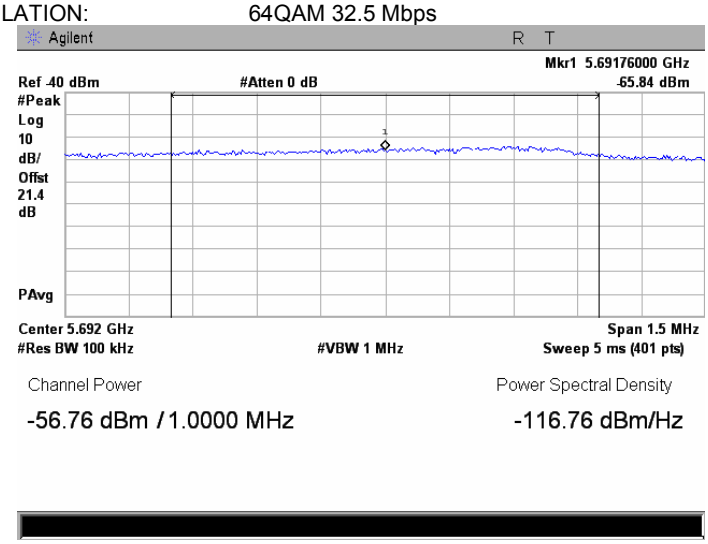
Plot 7.4.272 Conducted spurious emission measurements at the band edges in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.273 Conducted spurious emission measurements at the band edge

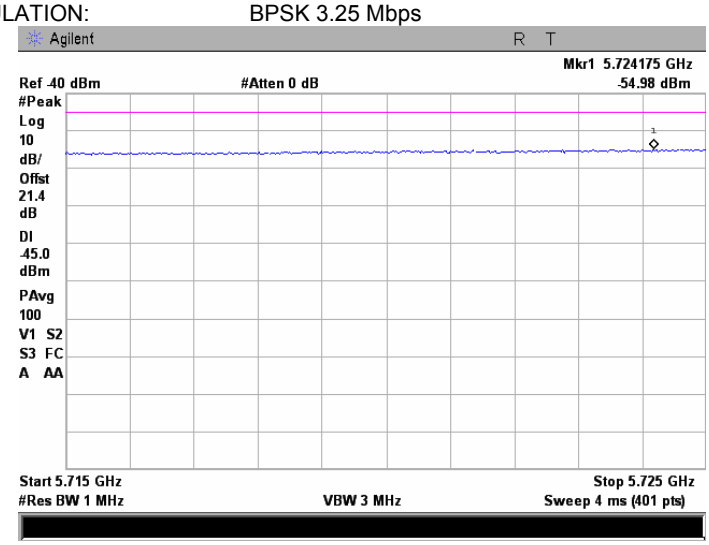
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

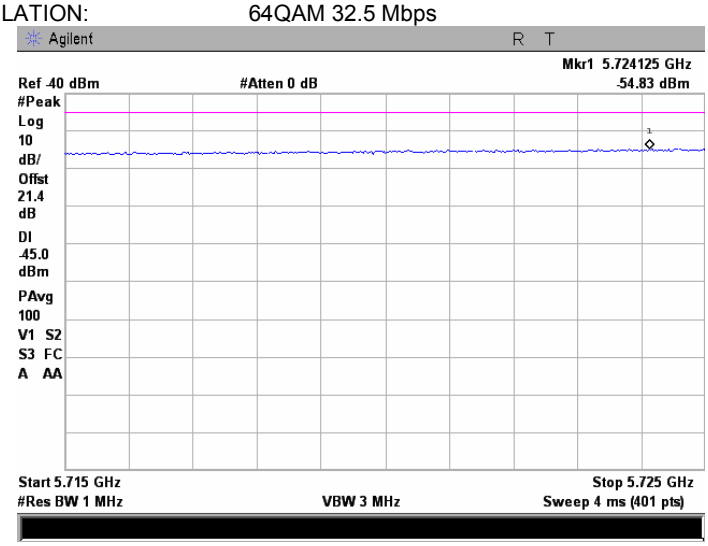
Plot 7.4.274 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.275 Conducted spurious emission measurements at the band edges in the frequency range 5715 – 5725 MHz

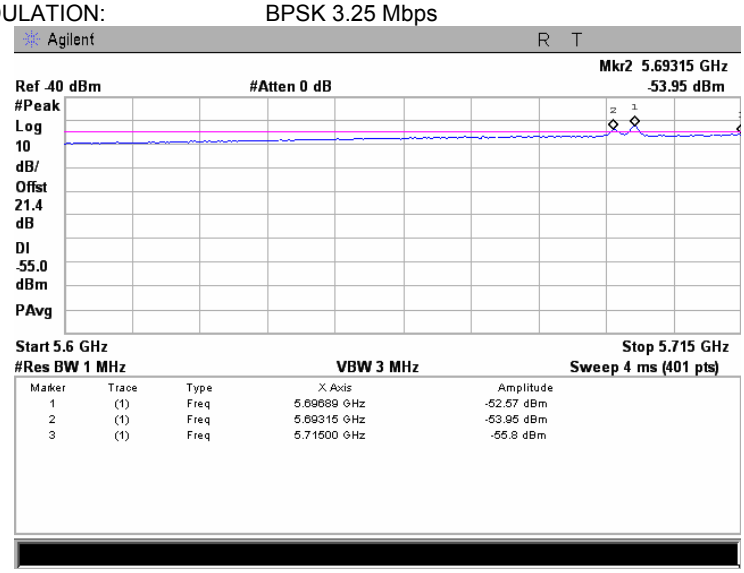
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

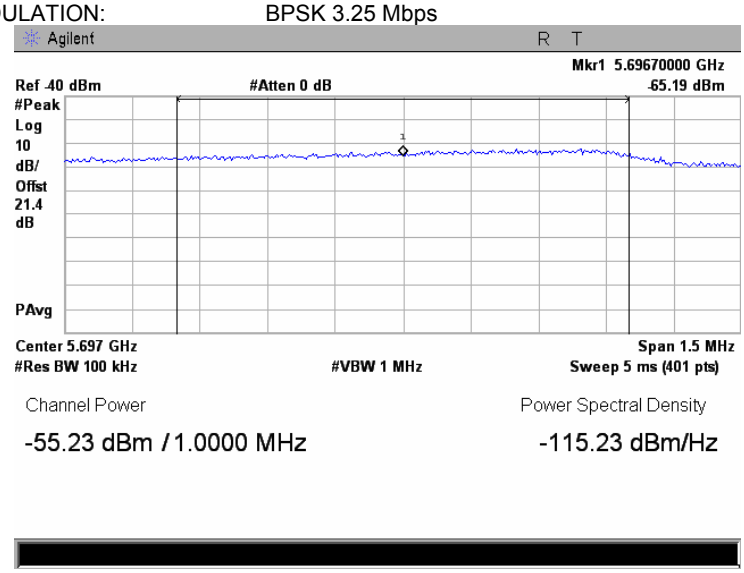
Plot 7.4.276 Conducted spurious emission measurements in the frequency range 5600 – 5715 MHz

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.277 Conducted spurious emission measurements at the band edge

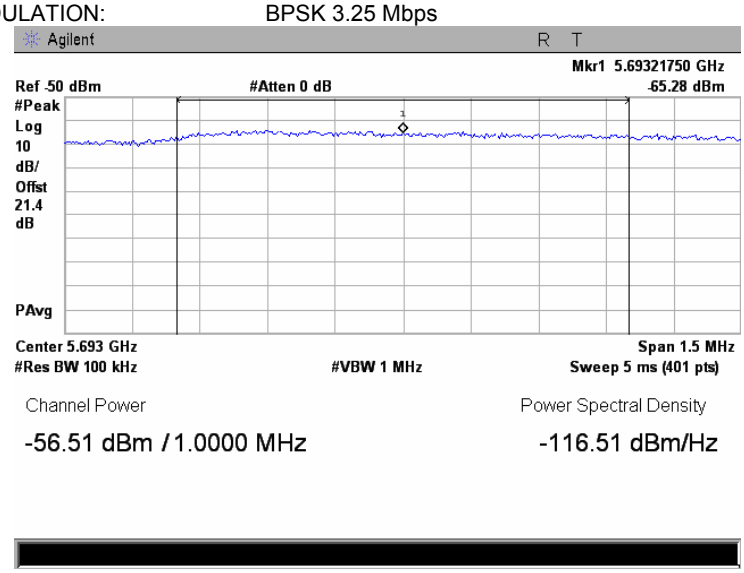
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

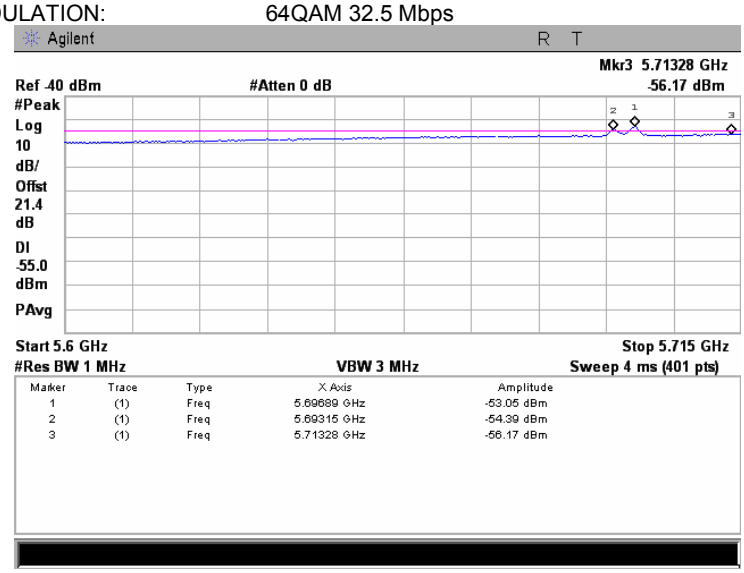
Plot 7.4.278 Conducted spurious emission measurements at the band edge

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.279 Conducted spurious emission measurements in the frequency range 5600 – 5715 MHz

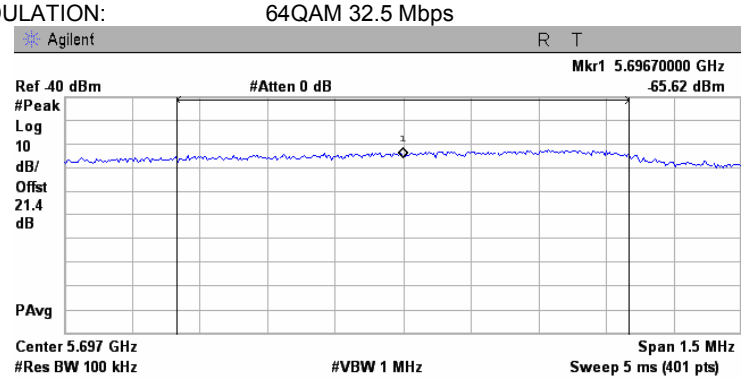
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

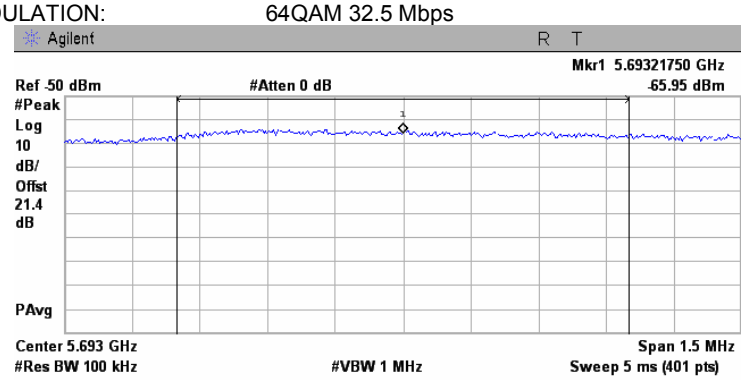
Plot 7.4.280 Conducted spurious emission measurements at the band edge

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.281 Conducted spurious emission measurements at the band edge

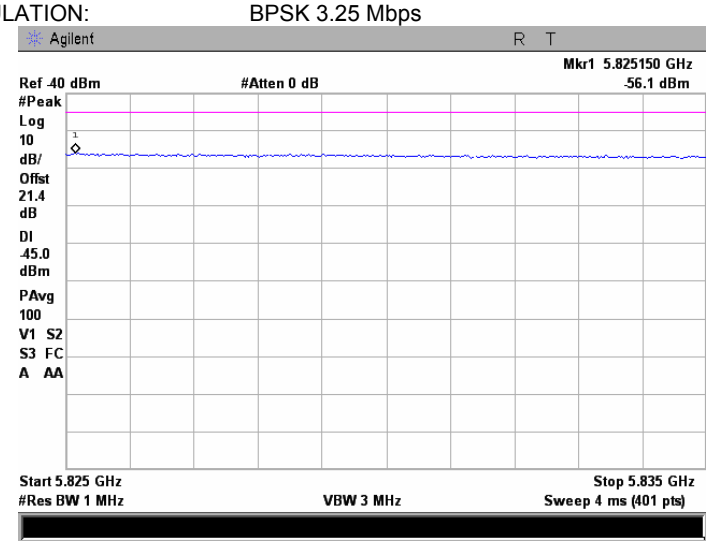
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

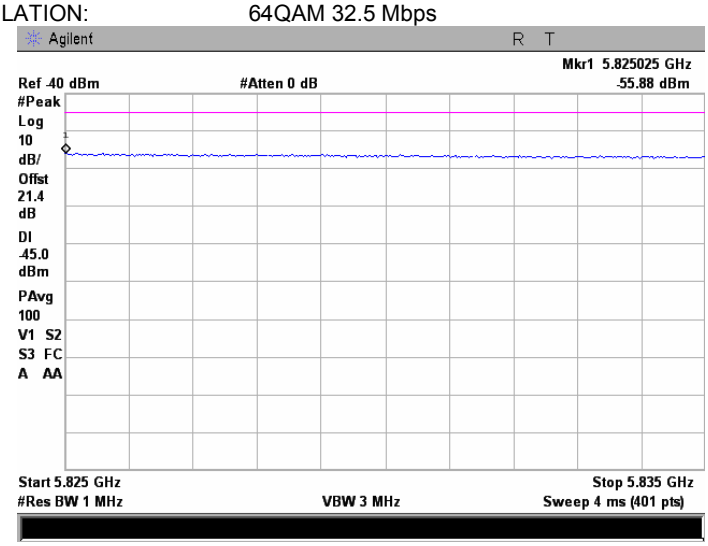
Plot 7.4.282 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.283 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

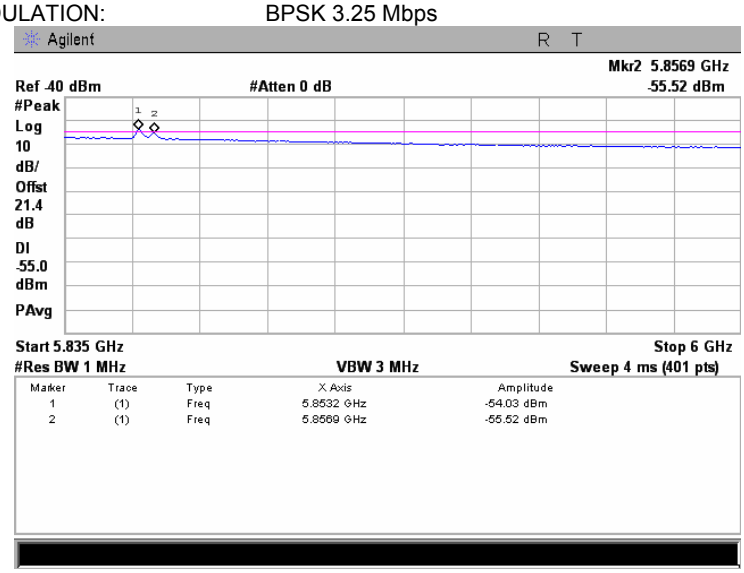
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

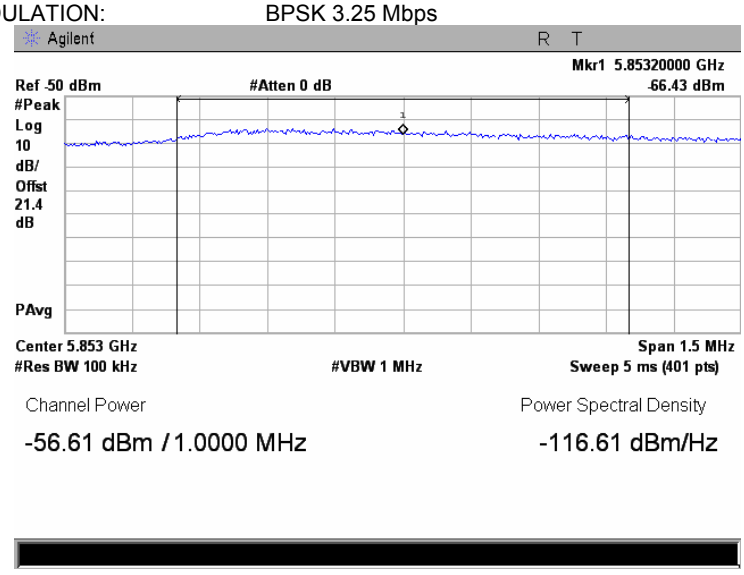
Plot 7.4.284 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.285 Conducted spurious emission measurements at the band edge

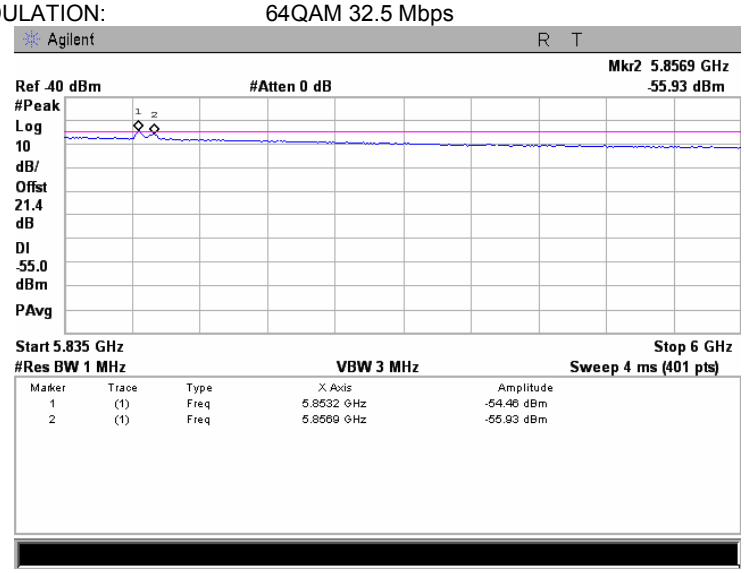
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

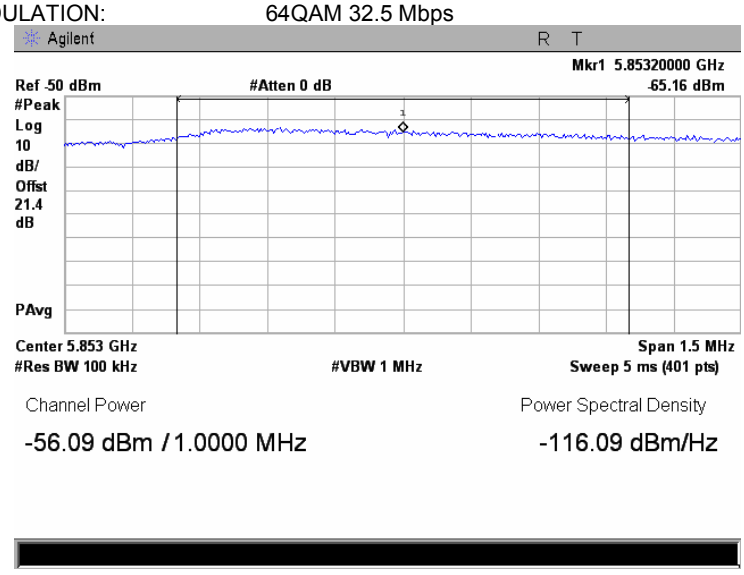
Plot 7.4.286 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.287 Conducted spurious emission measurements at the band edge

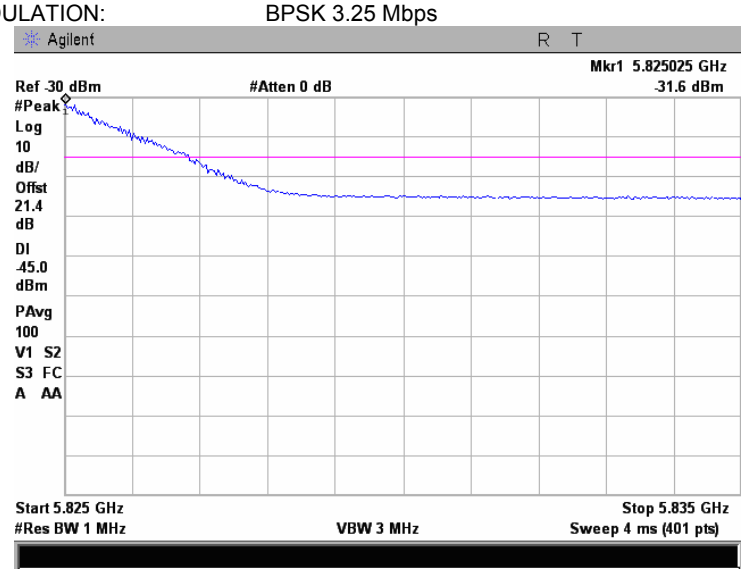
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

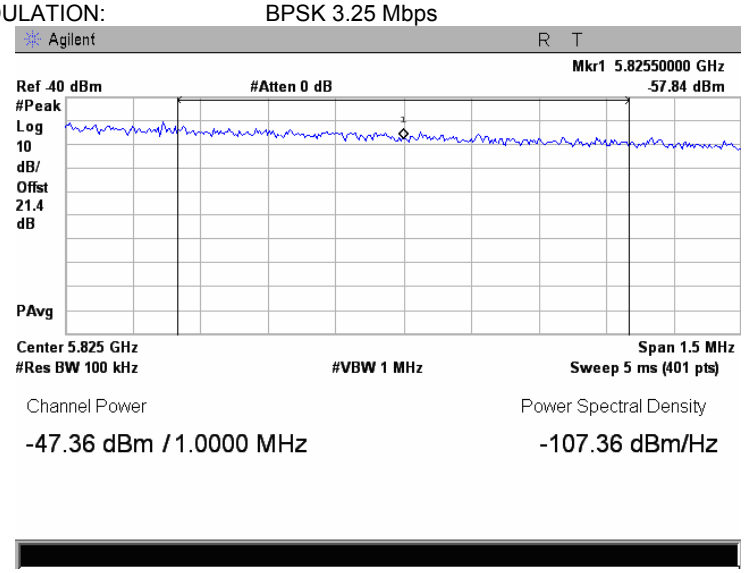
Plot 7.4.288 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.289 Conducted spurious emission measurements at the band edge

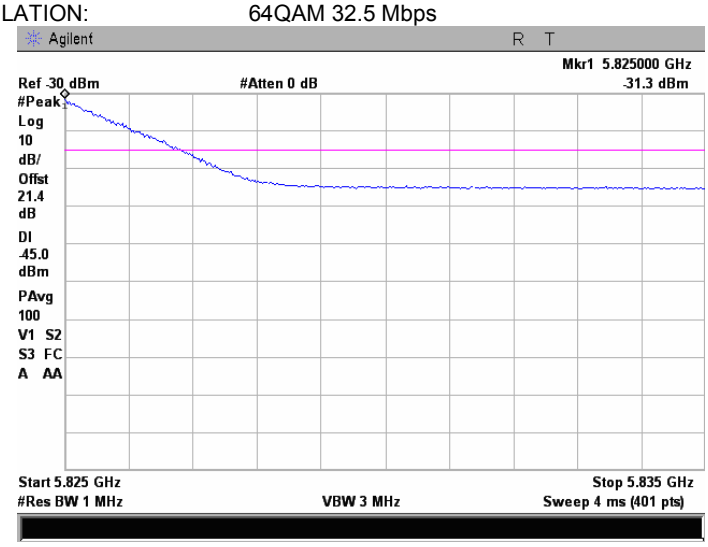
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	**FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges**		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

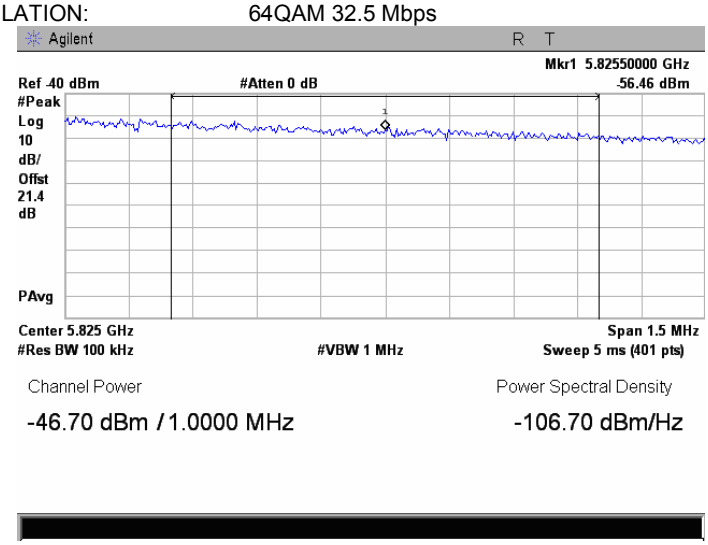
Plot 7.4.290 Conducted spurious emission measurements at the band edges in the frequency range 5825 – 5835 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.4.291 Conducted spurious emission measurements at the band edge

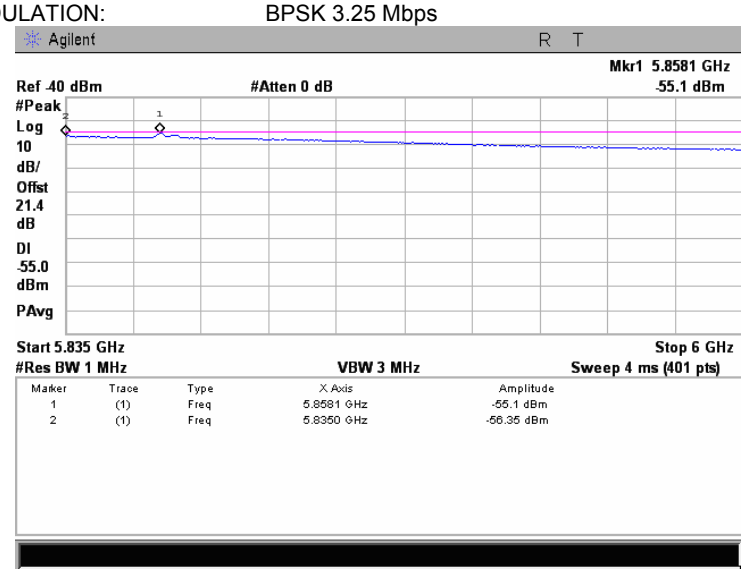
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

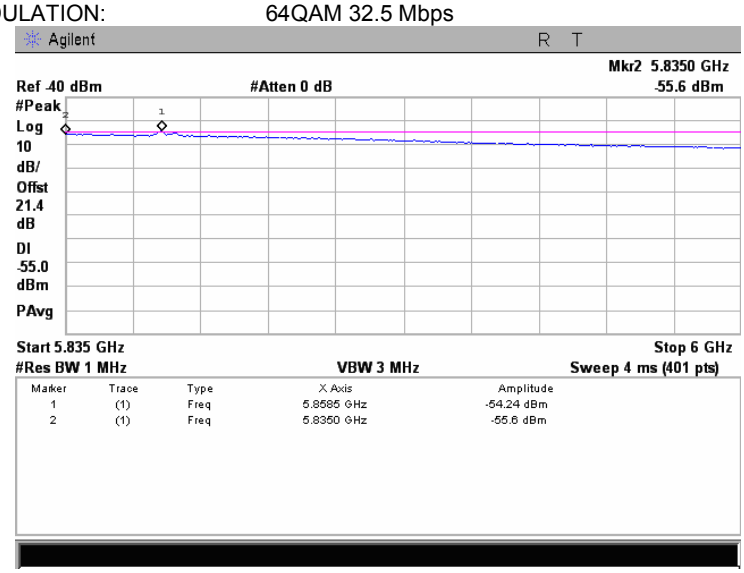
Plot 7.4.292 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.4.293 Conducted spurious emission measurements in the frequency range 5835 – 6000 MHz

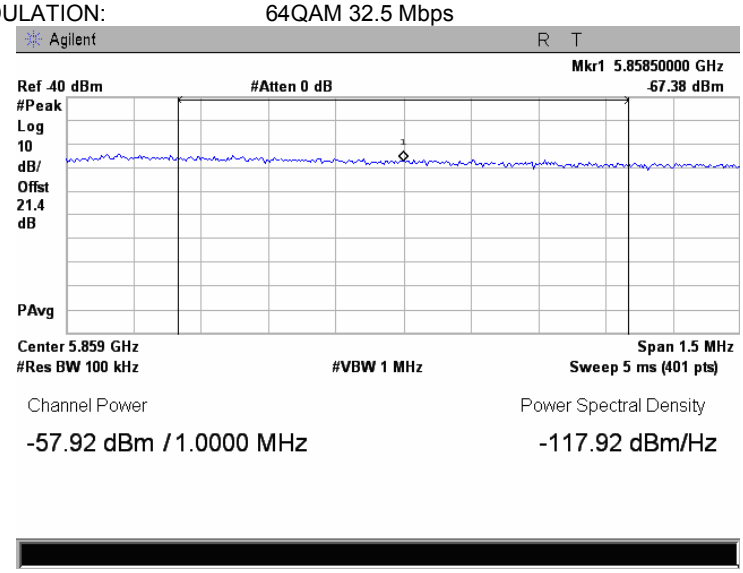
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2009		
Temperature: 24ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.4.294 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

7.5 Frequency stability test

7.5.1 General

This test was performed to measure frequency stability of transmitter RF carrier. Specification test limits are given in Table 7.5.1.

Table 7.5.1 Frequency stability limits

Assigned frequency band, MHz	Maximum allowed frequency displacement
5250 - 5350	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual

7.5.2 Test procedure

7.5.2.1 The EUT was set up as shown in Figure 7.5.1, energized and its proper operation was checked.

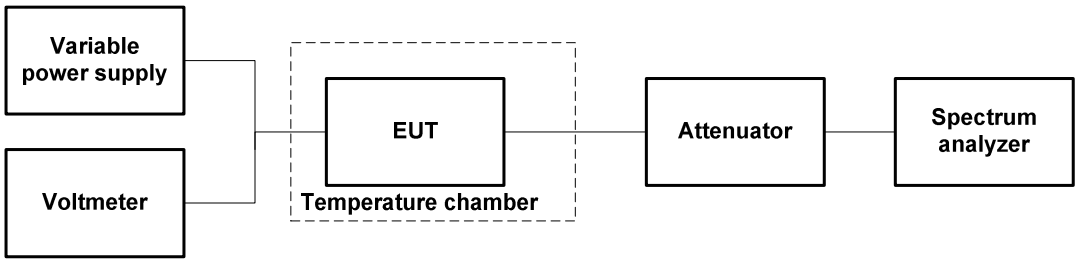
7.5.2.2 The EUT power was turned off. Temperature within test chamber was set to the required one and a period of time sufficient to stabilize all of the oscillator circuit components was allowed.

7.5.2.3 The EUT was powered on and carrier frequency was measured on the modulation slope at –27 dBm level at start up moment and then after 2, 5 and 10 minutes. The EUT was powered off.

7.5.2.4 The above procedure was repeated at the rest of the test temperatures and voltages as provided in Table 7.5.2, Table 7.5.3, Table 7.5.4, Table 7.5.5.

7.5.2.5 Frequency displacement was calculated and compared with the limit as provided in Table 7.5.2, Table 7.5.3, Table 7.5.4, Table 7.5.5.

Figure 7.5.1 Frequency stability test setup



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Table 7.5.2 Frequency stability test results

ASSIGNID FREQUENCY BAND: 5725 - 5825 MHz
NOMINAL POWER VOLTAGE: 120 VAC
TEMPERATURE STABILIZATION PERIOD: 20 min
POWER DURING TEMPERATURE TRANSITION: Off
SPECTRUM ANALYZER MODE: Counter
RESOLUTION BANDWIDTH: 1 kHz
VIDEO BANDWIDTH: 3 kHz
CHANNEL BANDWIDTH / MODULATION: 40 MHz / BPSK, 27Mbps at the Low and High band edge as the worst case in band edge test, refer to plots

Temperature, ºC	Voltage, V	Frequency, MHz				Band edge limit, MHz	Margin, kHz*	Verdict
		Start up	2nd min	5th min	10th min			
Low frequency Band Edge								
-35	Nominal	5725.196677	5725.201278	5725.201030	5725.200652	5725	-196.677	Pass
20	Nominal +15%	5725.151883	5725.149972	5725.150042	5725.150079		-149.972	
20	Nominal	5725.150342	5725.149912	5725.149948	5725.150000		-149.912	
20	Nominal -15%	5725.156358	5725.150061	5725.149896	5725.149897		-149.896	
60	Nominal	5725.157083	5725.199005	5725.215645	5725.248274		-157.083	
Mid frequency Low Band Edge								
-35	Nominal	5729.971677	5729.976278	5729.976030	5729.975652	5725	-4976.27	Pass
20	Nominal +15%	5729.926883	5729.924972	5729.925042	5729.925079		-4926.88	
20	Nominal	5729.925342	5729.924912	5729.924948	5729.925000		-4925.34	
20	Nominal -15%	5729.931358	5729.925061	5729.924896	5729.924897		-4931.35	
60	Nominal	5729.932083	5729.974005	5729.990645	5730.023274		-5023.27	
Mid frequency High Band Edge								
-35	Nominal	5820.501787	5820.501320	5820.501248	5820.501238	5825	4498.762	Pass
20	Nominal +15%	5820.450169	5820.449772	5820.449828	5820.449866		4550.228	
20	Nominal	5820.449531	5820.449984	5820.449991	5820.450000		4550.469	
20	Nominal -15%	5820.449699	5820.449867	5820.449978	5820.450042		4550.301	
60	Nominal	5820.480627	5820.523329	5820.530459	5820.534094		4519.373	
High frequency Band Edge								
-35	Nominal	5824.451787	5824.451320	5824.451248	5824.451238	5825	548.213	Pass
20	Nominal +15%	5824.400169	5824.399772	5824.399828	5824.399866		599.831	
20	Nominal	5824.399531	5824.399984	5824.399991	5824.400000		600.000	
20	Nominal -15%	5824.399699	5824.399867	5824.399978	5824.400042		599.958	
60	Nominal	5824.430627	5824.473329	5824.480459	5824.484094		515.906	

* - Margin is an absolute frequency delta between the edge of assigned frequency band and frequency in which the spurious emissions drops below the limit –17 dBm/MHz.

Test specification:	**FCC section 15.407(g), Frequency stability**		
Test procedure:	Section 2.1055		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks:			

Table 7.5.3 Frequency stability test results

ASSIGNID FREQUENCY BAND: 5725 - 5825 MHz
NOMINAL POWER VOLTAGE: 120 VAC
TEMPERATURE STABILIZATION PERIOD: 20 min
POWER DURING TEMPERATURE TRANSITION: Off
SPECTRUM ANALYZER MODE: Counter
RESOLUTION BANDWIDTH: 1 kHz
VIDEO BANDWIDTH: 3 kHz
CHANNEL BANDWIDTH / MODULATION: 20 MHz / BPSK, 13Mbps at the low band edge; 20 MHz / 64QAM, 130Mbps at the high band edge as the worst case in band edge test, refer to plots

Temperature, ºC	Voltage, V	Frequency, MHz				Band edge limit, MHz	Margin, kHz*	Verdict
		Start up	2nd min	5th min	10th min			
Low frequency Band Edge								
-35	Nominal	5725.196677	5725.201278	5725.201030	5725.200652	5725	-196.677	Pass
20	Nominal +15%	5725.151883	5725.149972	5725.150042	5725.150079		-149.972	
20	Nominal	5725.150342	5725.149912	5725.149948	5725.150000		-149.912	
20	Nominal -15%	5725.156358	5725.150061	5725.149896	5725.149897		-149.896	
60	Nominal	5725.157083	5725.199005	5725.215645	5725.248274		-157.083	
Low frequency In Band								
-35	Nominal	5727.471677	5727.476278	5727.476030	5727.475652	5725	-2476.278	Pass
20	Nominal +15%	5727.426883	5727.424972	5727.425042	5727.425079		-2426.883	
20	Nominal	5727.425342	5727.424912	5727.424948	5727.425000		-2425.342	
20	Nominal -15%	5727.431358	5727.425061	5727.424896	5727.424897		-2431.358	
60	Nominal	5727.432083	5727.474005	5727.490645	5727.523274		-2523.274	
High frequency In Band								
-35	Nominal	5820.276787	5820.276320	5820.276248	5820.276238	5825	4723.762	Pass
20	Nominal +15%	5820.225169	5820.224772	5820.224828	5820.224866		4775.228	
20	Nominal	5820.224531	5820.224984	5820.224991	5820.225000		4775.469	
20	Nominal -15%	5820.224699	5820.224867	5820.224978	5820.225042		4775.301	
60	Nominal	5820.255627	5820.298329	5820.305459	5820.309094		4744.373	
High frequency Band Edge								
-35	Nominal	5824.926787	5824.926320	5824.926248	5824.926238	5825	73.213	Pass
20	Nominal +15%	5824.875169	5824.874772	5824.874828	5824.874866		124.831	
20	Nominal	5824.874531	5824.874984	5824.874991	5824.875000		125.000	
20	Nominal -15%	5824.874699	5824.874867	5824.874978	5824.875042		124.958	
60	Nominal	5824.905627	5824.948329	5824.955459	5824.959094		40.906	

* - Margin is an absolute frequency delta between the edge of assigned frequency band and frequency in which the spurious emissions drops below the limit –17 dBm/MHz.

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Table 7.5.4 Frequency stability test results

ASSIGNID FREQUENCY BAND: 5725 - 5825 MHz
NOMINAL POWER VOLTAGE: 120 VAC
TEMPERATURE STABILIZATION PERIOD: 20 min
POWER DURING TEMPERATURE TRANSITION: Off
SPECTRUM ANALYZER MODE: Counter
RESOLUTION BANDWIDTH: 1 kHz
VIDEO BANDWIDTH: 3 kHz
CHANNEL BANDWIDTH / MODULATION: 10 MHZ / 64QAM, 65Mbps at the low and high band edge; as the worst case in band edge test, refer to plots

Temperature, ºC	Voltage, V	Frequency, MHz				Band edge limit, MHz	Margin, kHz*	Verdict
		Start up	2nd min	5th min	10th min			
Low frequency Band Edge								
-35	Nominal	5725.196677	5725.201278	5725.201030	5725.200652	5725	-196.677	Pass
20	Nominal +15%	5725.151883	5725.149972	5725.150042	5725.150079		-149.972	
20	Nominal	5725.150342	5725.149912	5725.149948	5725.150000		-149.912	
20	Nominal -15%	5725.156358	5725.150061	5725.149896	5725.149897		-149.896	
60	Nominal	5725.157083	5725.199005	5725.215645	5725.248274		-157.083	
Low frequency In Band								
-35	Nominal	5725.821677	5725.826280	5725.826030	5725.825650	5725	-826.278	Pass
20	Nominal +15%	5725.776883	5725.774972	5725.775042	5725.775079		-776.883	
20	Nominal	5725.775342	5725.774912	5725.774948	5725.775000		-775.342	
20	Nominal -15%	5725.781358	5725.775061	5725.774896	5725.774897		-781.358	
60	Nominal	5725.782083	5725.824005	5725.840645	5725.873274		-873.274	
High frequency In Band								
-35	Nominal	5824.301787	5824.301320	5824.301248	5824.301238	5825	698.762	Pass
20	Nominal +15%	5824.250169	5824.249772	5824.249828	5824.249866		750.228	
20	Nominal	5824.249531	5824.249984	5824.249991	5824.250000		750.469	
20	Nominal -15%	5824.249699	5824.249867	5824.249978	5824.250042		750.301	
60	Nominal	5824.280627	5824.323329	5824.330459	5824.334094		719.373	
High frequency Band Edge								
-35	Nominal	5824.551787	5824.551320	5824.551248	5824.551238	5825	448.213	Pass
20	Nominal +15%	5824.500169	5824.499772	5824.499828	5824.499866		499.831	
20	Nominal	5824.499531	5824.499984	5824.499991	5824.500000		500.000	
20	Nominal -15%	5824.499699	5824.499867	5824.499978	5824.500042		499.958	
60	Nominal	5824.530627	5824.573329	5824.580459	5824.584094		415.906	

* - Margin is an absolute frequency delta between the edge of assigned frequency band and frequency in which the spurious emissions drops below the limit –17 dBm/MHz.

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Table 7.5.5 Frequency stability test results

ASSIGNID FREQUENCY BAND: 5725 - 5825 MHz
NOMINAL POWER VOLTAGE: 120 VAC
TEMPERATURE STABILIZATION PERIOD: 20 min
POWER DURING TEMPERATURE TRANSITION: Off
SPECTRUM ANALYZER MODE: Counter
RESOLUTION BANDWIDTH: 1 kHz
VIDEO BANDWIDTH: 3 kHz
CHANNEL BANDWIDTH / MODULATION: 5 MHz / 64QAM, 32.5Mbps at the low and high band edge; as the worst case in band edge test, refer to plots

Temperature, ºC	Voltage, V	Frequency, MHz				Band edge limit, MHz	Margin, kHz*	Verdict
		Start up	2nd min	5th min	10th min			
Low frequency Band Edge								
-35	Nominal	5725.196677	5725.201278	5725.201030	5725.200652	5725	-196.677	Pass
20	Nominal +15%	5725.151883	5725.149972	5725.150042	5725.150079		-149.972	
20	Nominal	5725.150342	5725.149912	5725.149948	5725.150000		-149.912	
20	Nominal -15%	5725.156358	5725.150061	5725.149896	5725.149897		-149.896	
60	Nominal	5725.157083	5725.199005	5725.215645	5725.248274		-157.083	
Low frequency In Band								
-35	Nominal	5727.821677	5727.826278	5727.826030	5727.825652	5725	-2826.278	Pass
20	Nominal +15%	5727.776883	5727.774972	5727.775042	5727.775079		-2776.883	
20	Nominal	5727.775342	5727.774912	5727.774948	5727.775000		-2775.342	
20	Nominal -15%	5727.781358	5727.775061	5727.774896	5727.774897		-2781.358	
60	Nominal	5727.782083	5727.824005	5727.840645	5727.873274		-2873.274	
High frequency In Band								
-35	Nominal	5822.401787	5822.401320	5822.401248	5822.401238	5825	2598.762	Pass
20	Nominal +15%	5822.350169	5822.349772	5822.349828	5822.349866		2650.228	
20	Nominal	5822.349531	5822.349984	5822.349991	5822.350000		2650.469	
20	Nominal -15%	5822.349699	5822.349867	5822.349978	5822.350042		2650.301	
60	Nominal	5822.380627	5822.423329	5822.430459	5822.434094		2619.373	
High frequency Band Edge								
-35	Nominal	5824.901787	5824.901320	5824.901248	5824.901238	5825	98.213	Pass
20	Nominal +15%	5824.850169	5824.849772	5824.849828	5824.849866		149.831	
20	Nominal	5824.849531	5824.849984	5824.849991	5824.850000		150.000	
20	Nominal -15%	5824.849699	5824.849867	5824.849978	5824.850042		149.958	
60	Nominal	5824.880627	5824.923329	5824.930459	5824.934094		65.906	

* - Margin is an absolute frequency delta between the edge of assigned frequency band and frequency in which the spurious emissions drops below the limit –17 dBm/MHz

Reference numbers of test equipment used

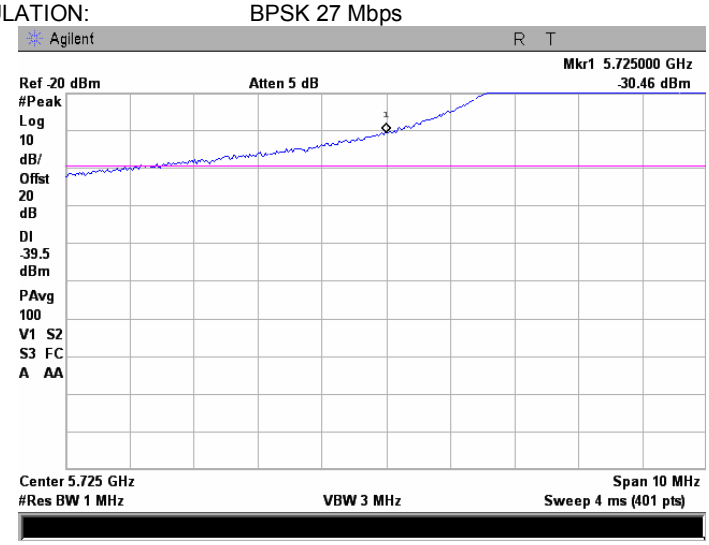
HL 0493	HL 1194	HL 2909	HL 3179	HL 3233	HL 3386		

Full description is given in Appendix A.

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

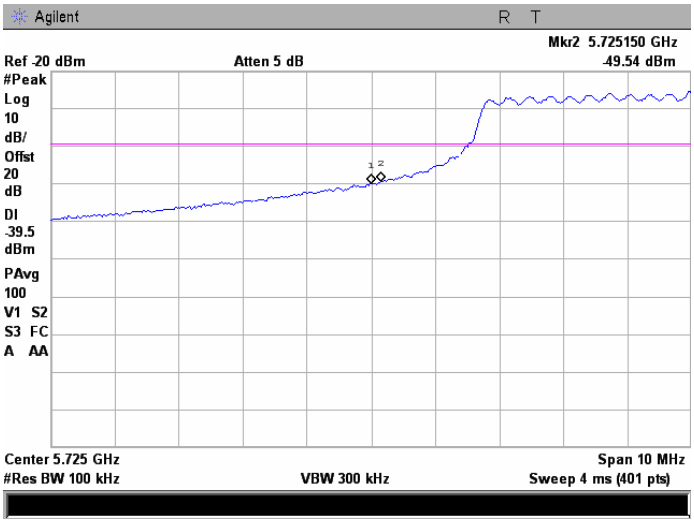
Plot 7.5.1 Conducted spurious emission measurements at the low band edge

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.5.2 Conducted spurious emission measurements at the low band edge

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps
RBW 100 kHz

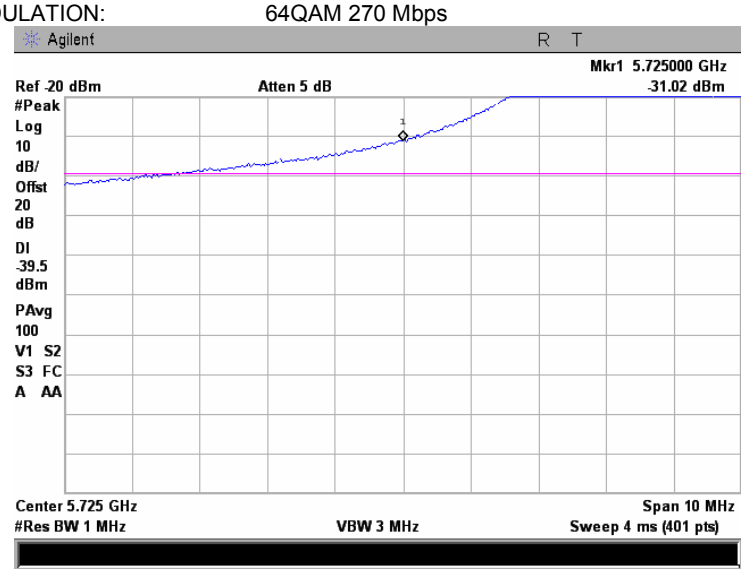


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.54 dBm + 10 dB= -39.54 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

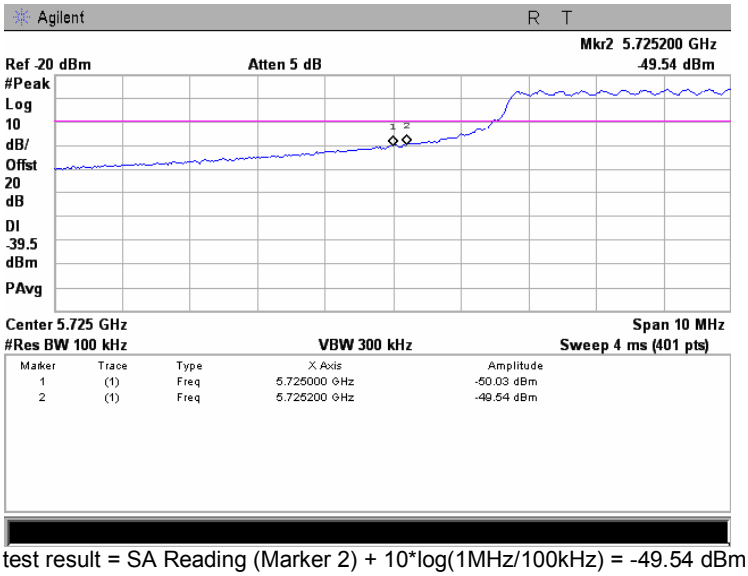
Plot 7.5.3 Conducted spurious emission measurements at the low band edge

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.5.4 Conducted spurious emission measurements at the low band edge

CARRIER FREQUENCY 5745 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps
RBW 100 kHz

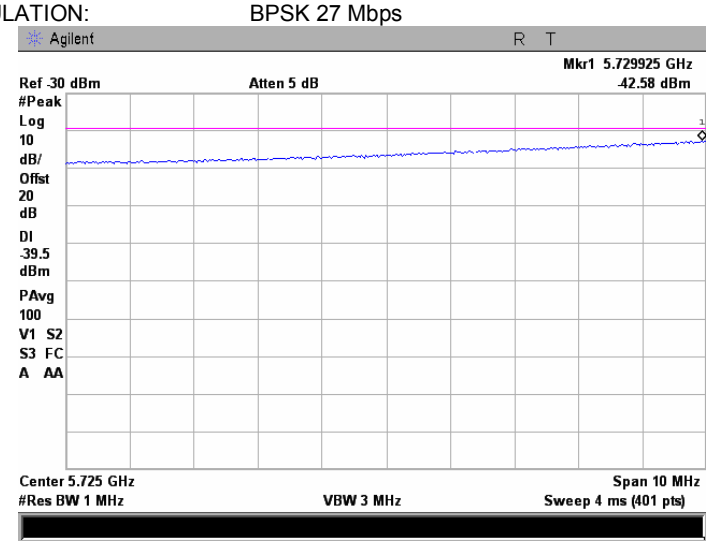


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.54 dBm + 10 dB= -39.54 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

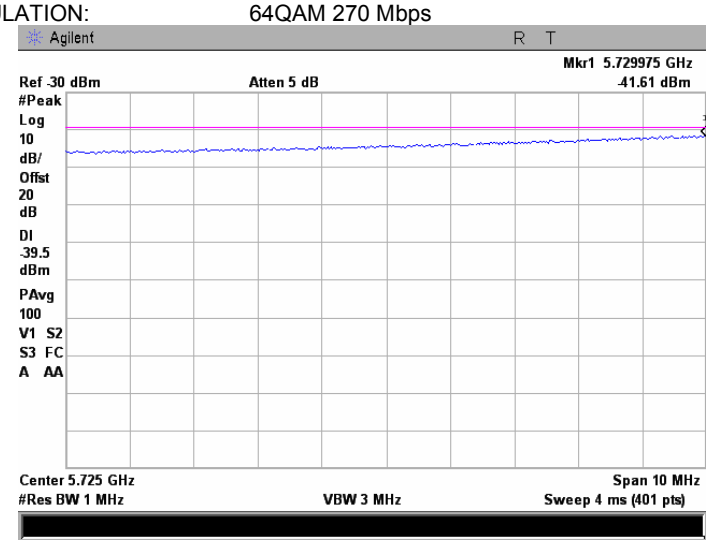
Plot 7.5.5 Conducted spurious emission measurements at the low band edge

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.5.6 Conducted spurious emission measurements at the low band edge

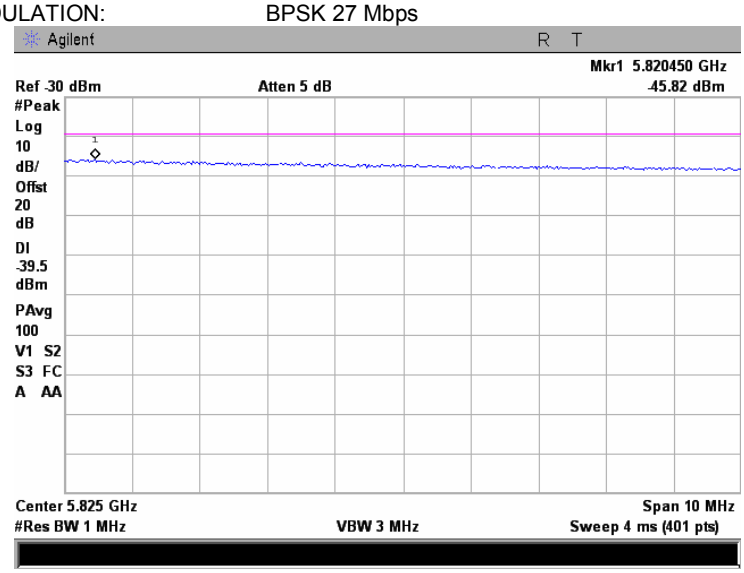
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

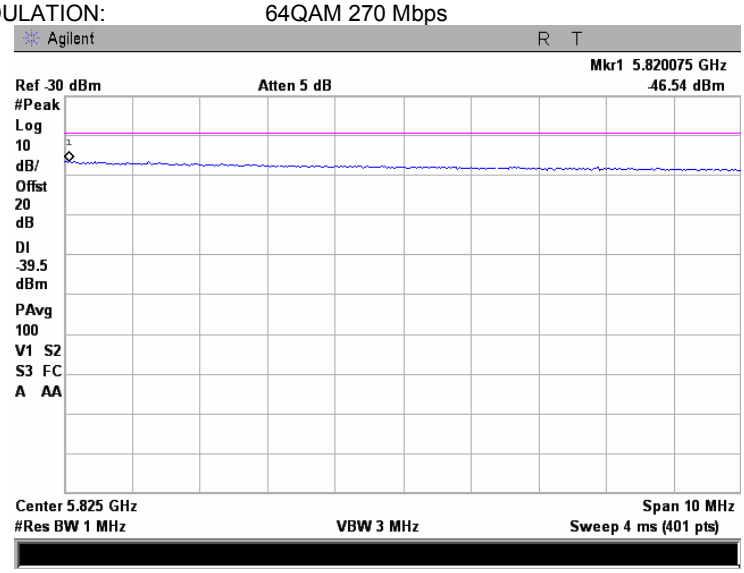
Plot 7.5.7 Conducted spurious emission measurements at the high band edge

CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.5.8 Conducted spurious emission measurements at the high band edge

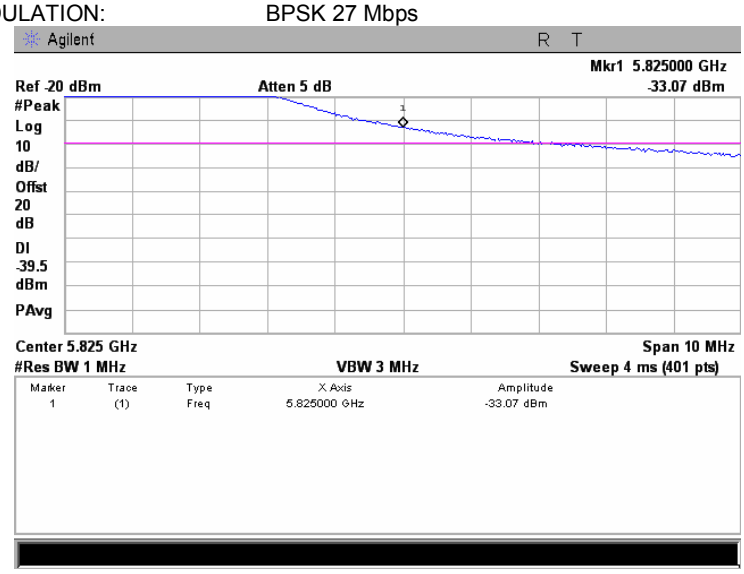
CARRIER FREQUENCY 5775 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

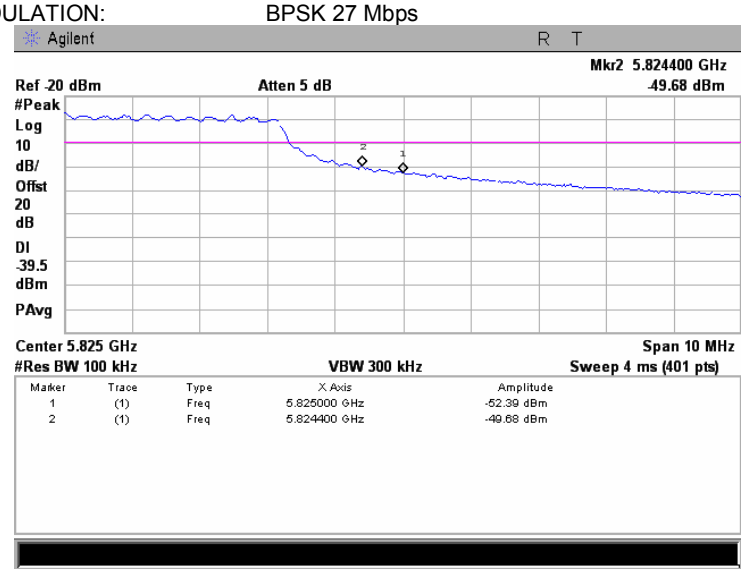
Plot 7.5.9 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps



Plot 7.5.10 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: BPSK 27 Mbps

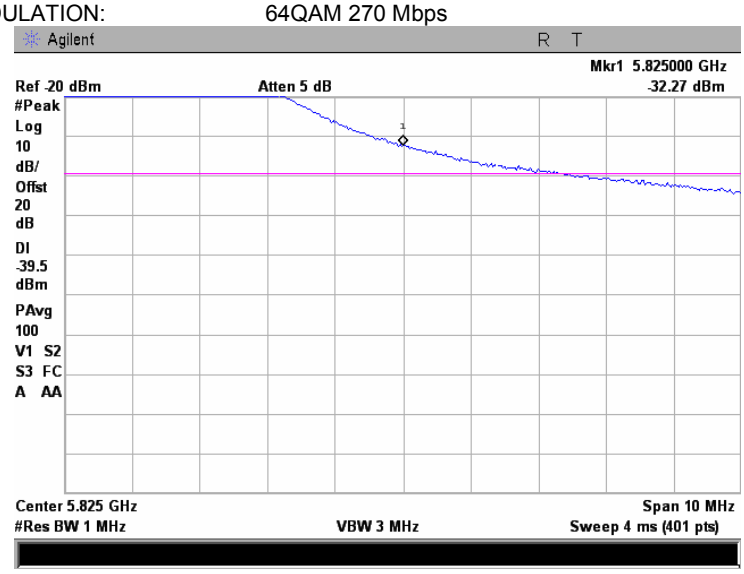


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.68 dBm + 10 dB= -39.68 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

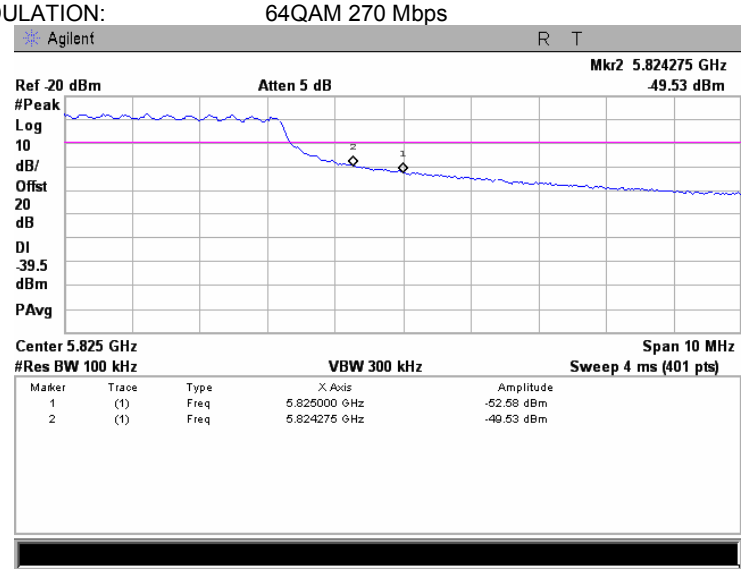
Plot 7.5.11 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps



Plot 7.5.12 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5805 MHz
CHANNEL BANDWIDTH 40 MHz
MODULATION: 64QAM 270 Mbps

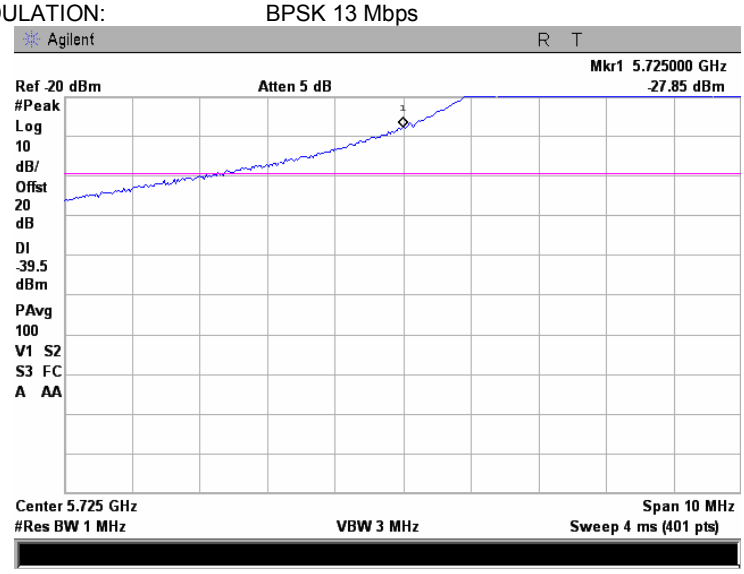


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.53 dBm + 10 dB= -39.53 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

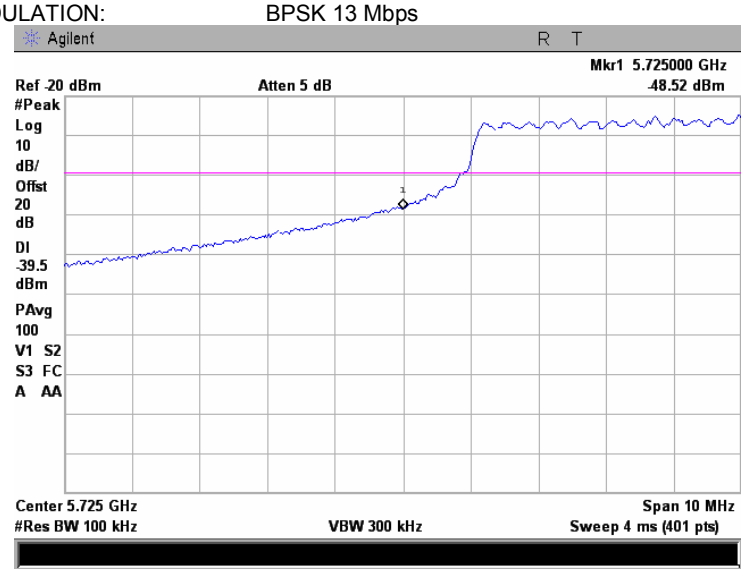
Plot 7.5.13 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.5.14 Conducted spurious emission measurements at the band edges

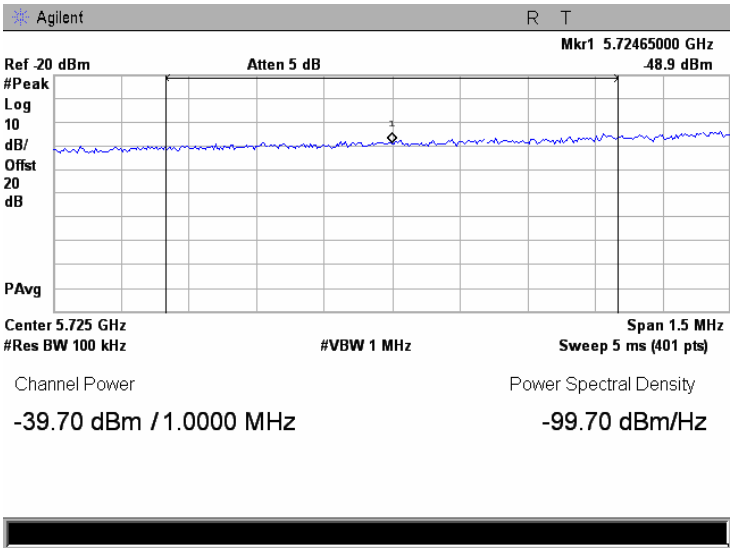
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.15 Conducted spurious emission measurements at the band edges

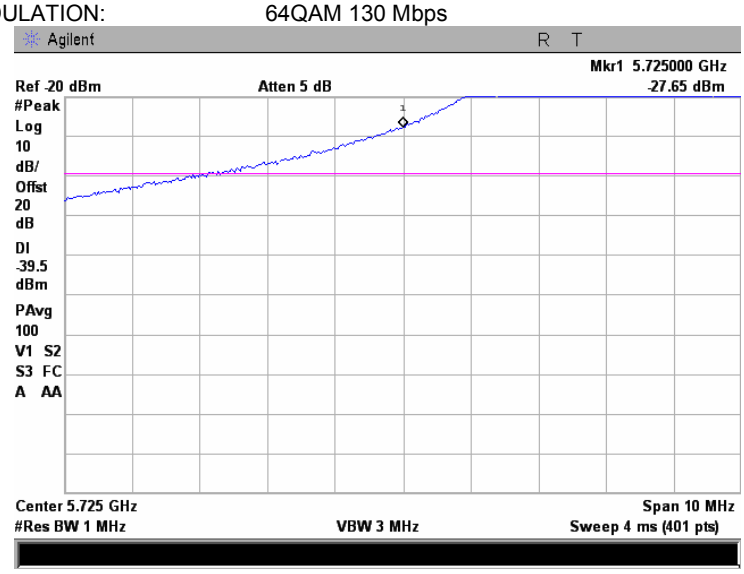
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

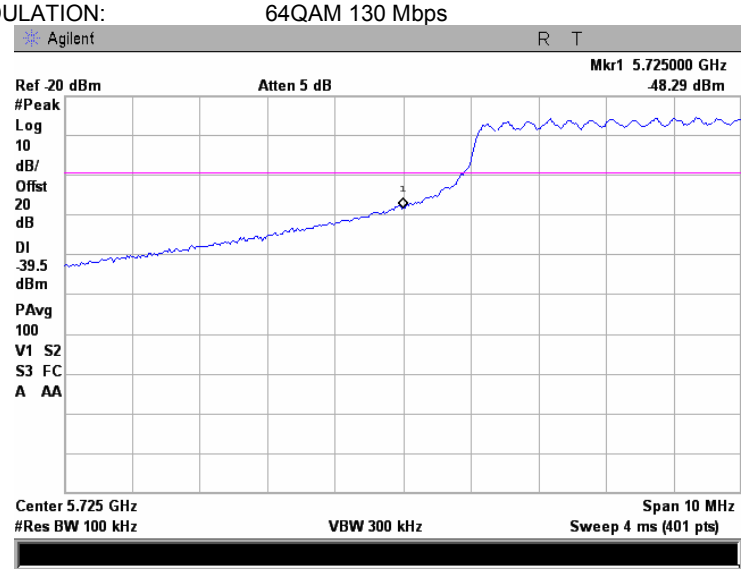
Plot 7.5.16 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.5.17 Conducted spurious emission measurements at the band edges

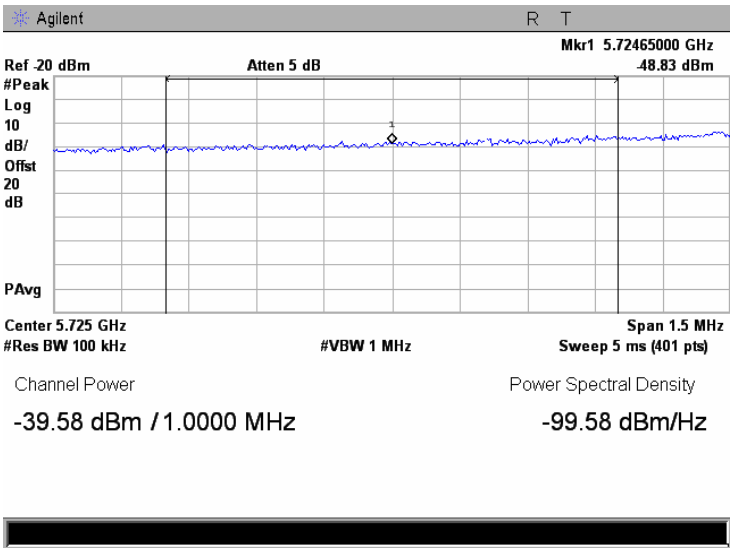
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.18 Conducted spurious emission measurements at the band edges

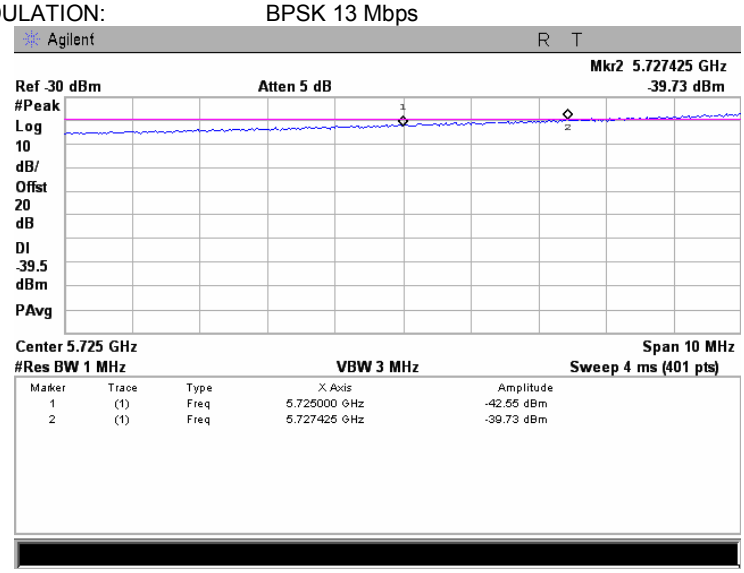
CARRIER FREQUENCY	5735 MHz
CHANNEL BANDWIDTH	20 MHz
MODULATION:	64QAM 130 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

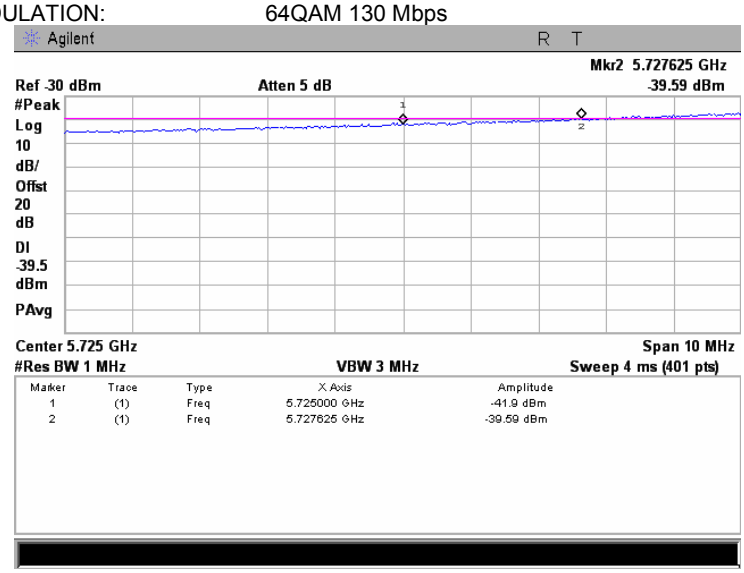
Plot 7.5.19 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.5.20 Conducted spurious emission measurements at the band edges

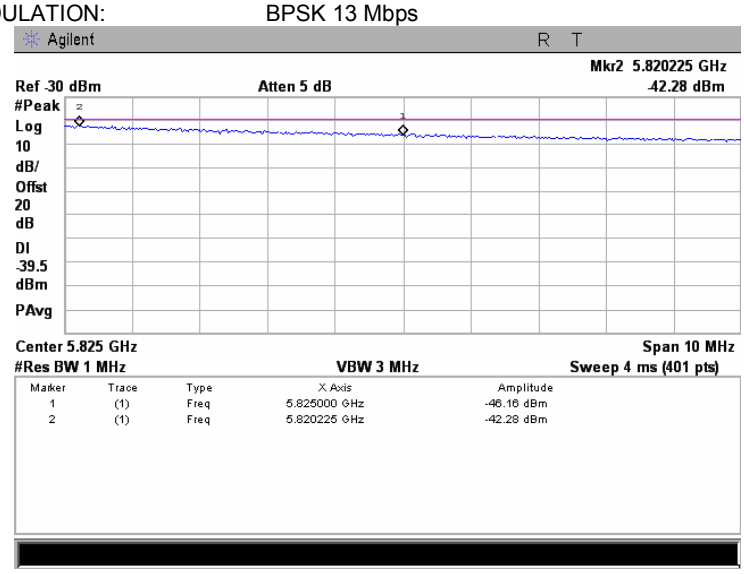
CARRIER FREQUENCY 5755 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

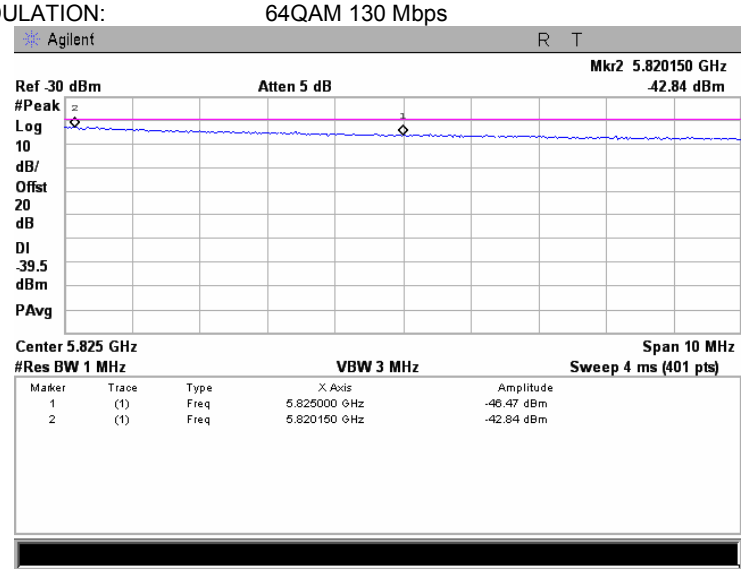
Plot 7.5.21 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.5.22 Conducted spurious emission measurements at the band edges

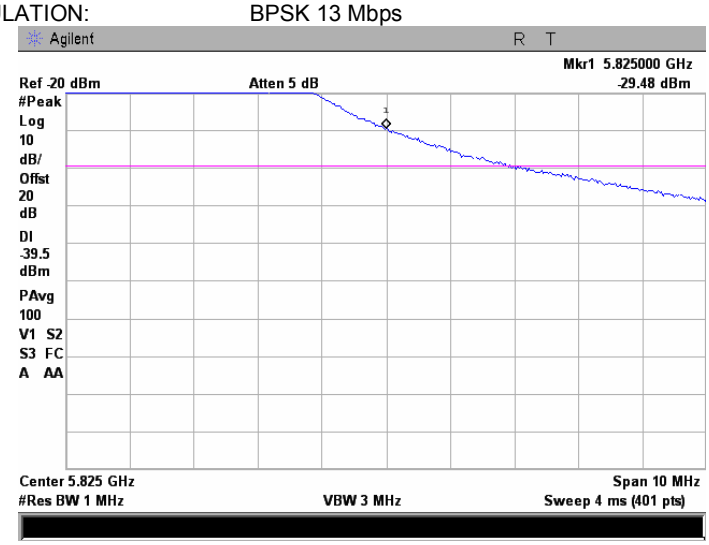
CARRIER FREQUENCY 5795 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

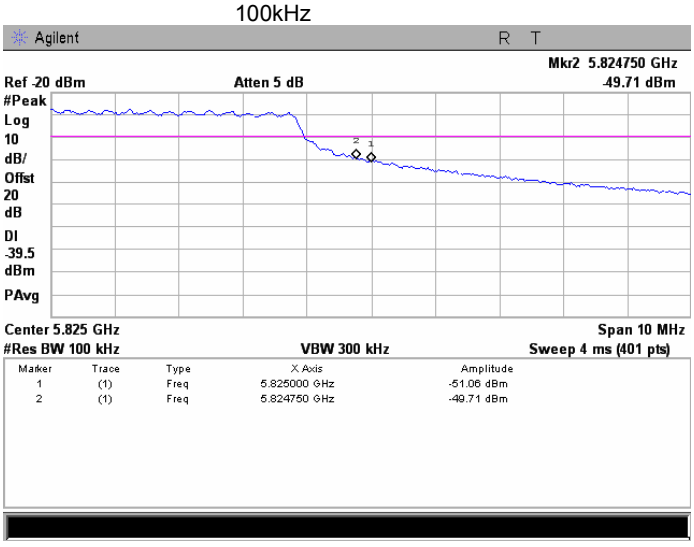
Plot 7.5.23 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps



Plot 7.5.24 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: BPSK 13 Mbps
RBW 100kHz

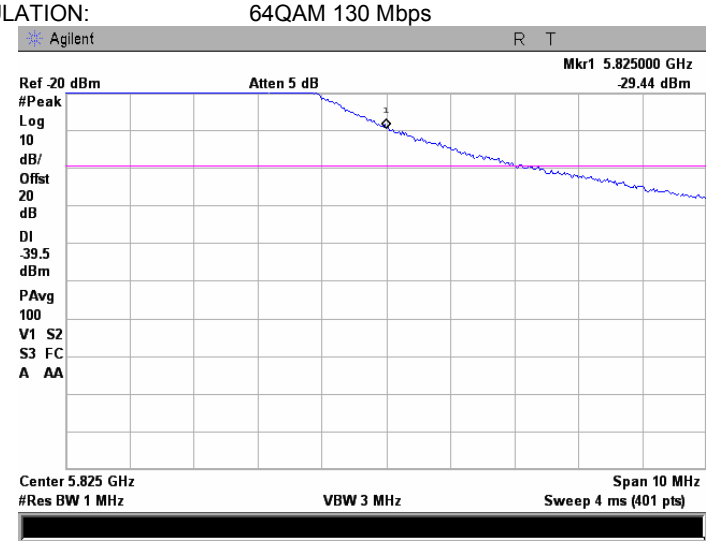


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.71 dBm+ 10 dB = -39.71 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

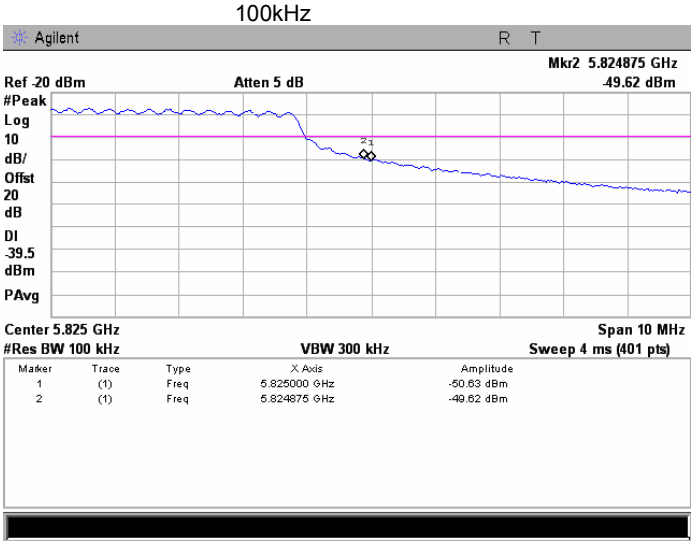
Plot 7.5.25 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps



Plot 7.5.26 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 20 MHz
MODULATION: 64QAM 130 Mbps
RBW 100kHz

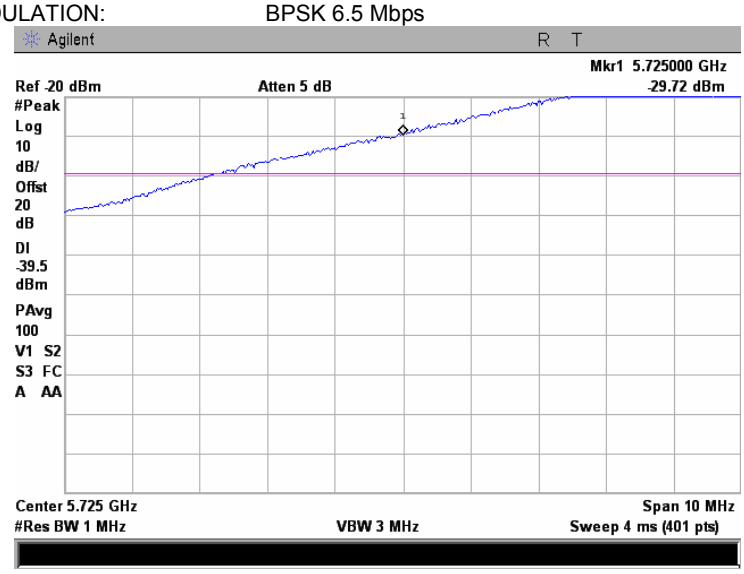


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.62 dBm+ 10 dB= -39.62 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

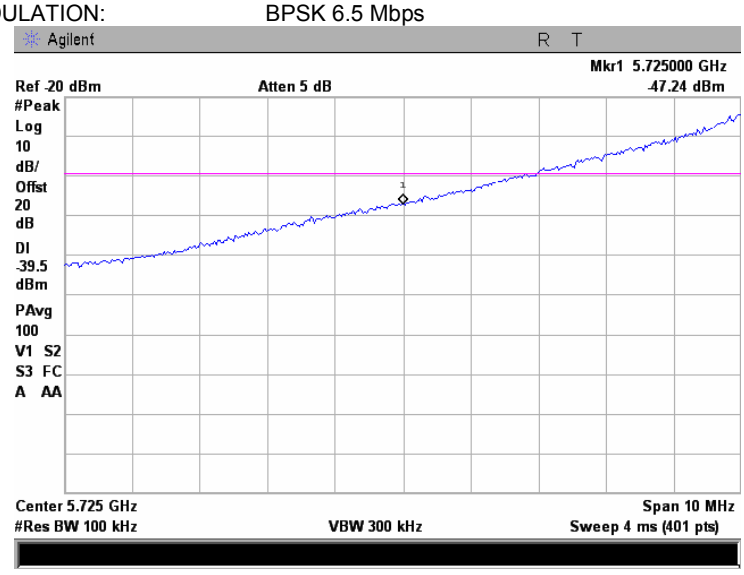
Plot 7.5.27 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.5.28 Conducted spurious emission measurements at the band edges

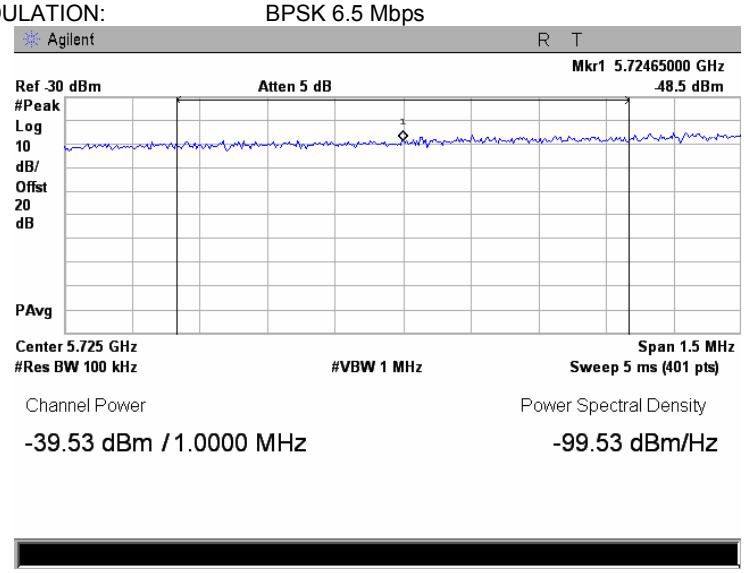
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.29 Conducted spurious emission measurements at the band edges

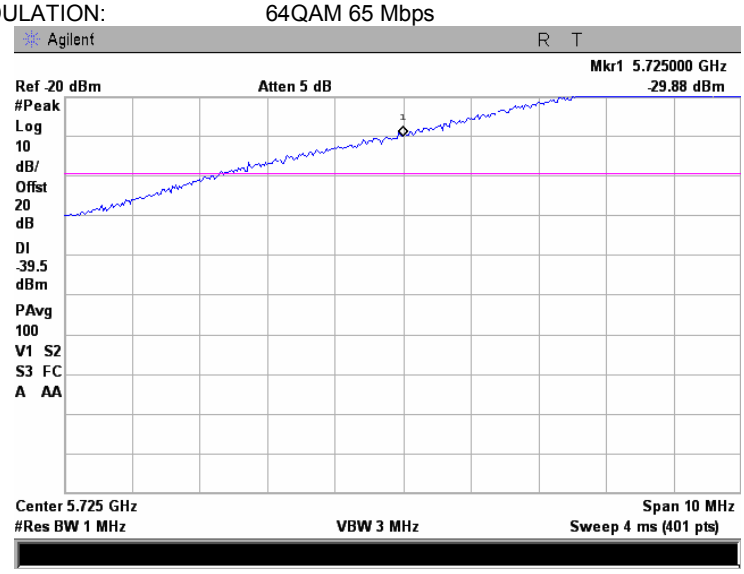
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

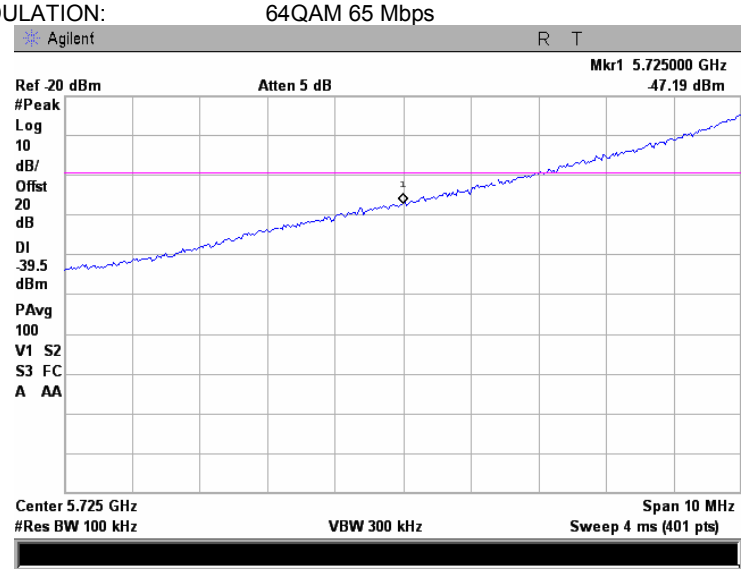
Plot 7.5.30 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.5.31 Conducted spurious emission measurements at the band edges

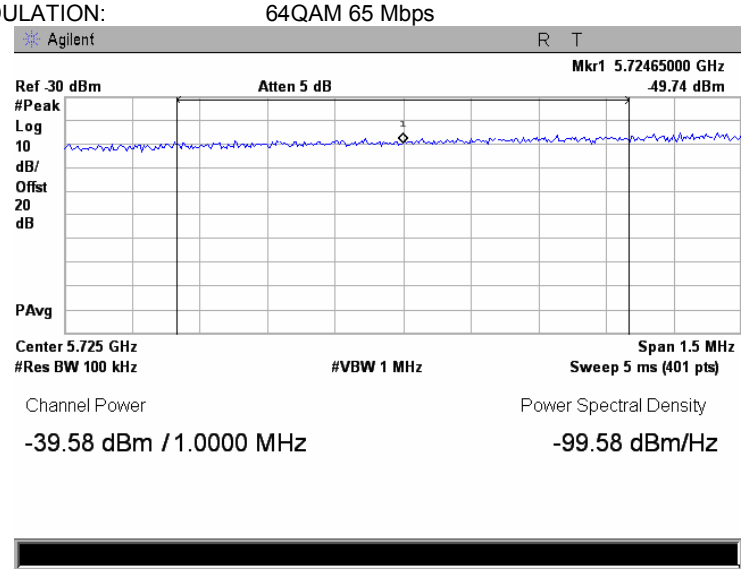
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.32 Conducted spurious emission measurements at the band edges

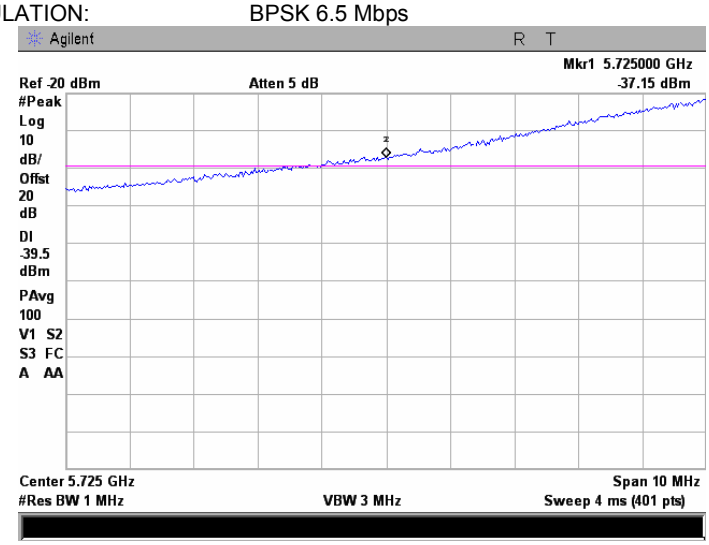
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

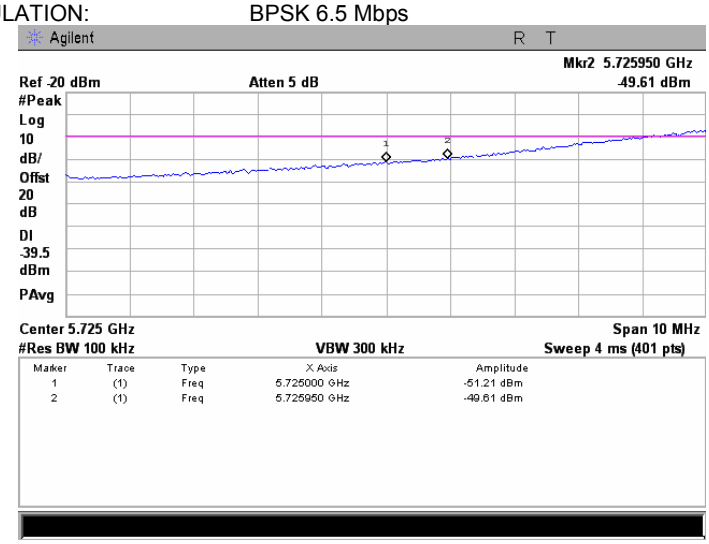
Plot 7.5.33 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.5.34 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps

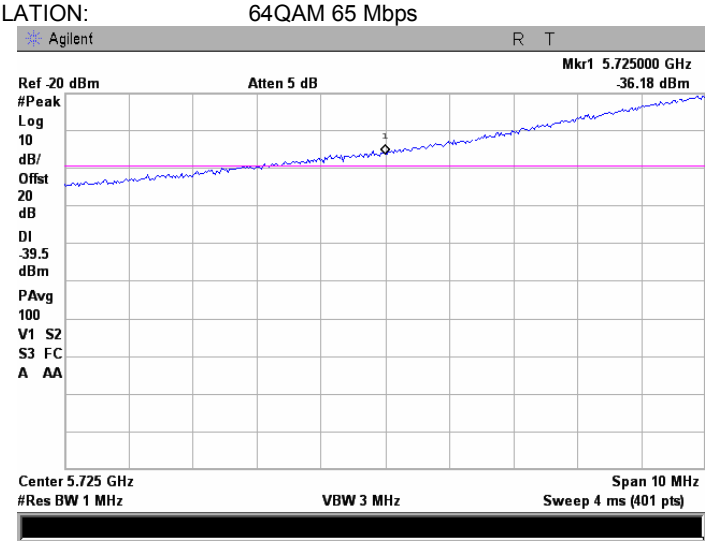


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.61 dBm + 10 dB= -39.61 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

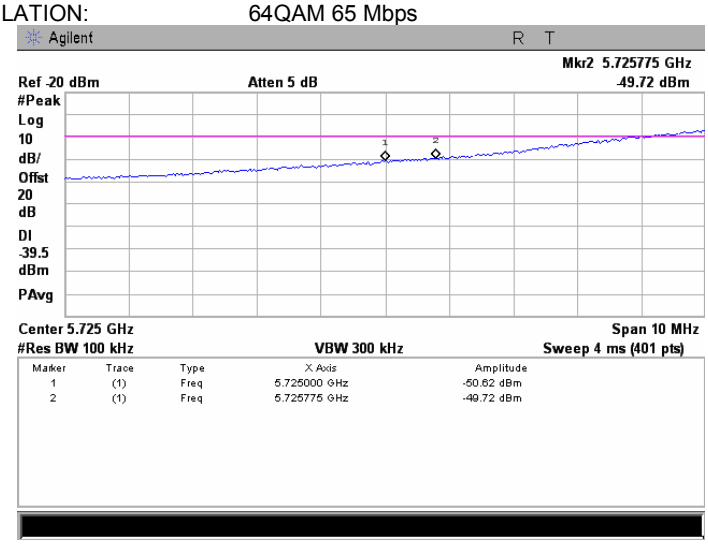
Plot 7.5.35 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.5.36 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5740 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps

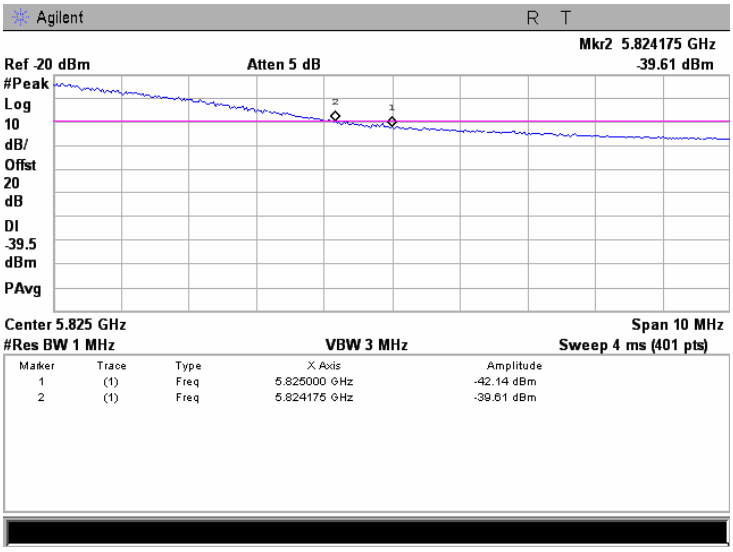


NOTE: The Band edge test result = SA Reading (Marker 2) + 10*log(1MHz/100kHz) = -49.72 dBm + 10 dB= -39.72 dBm

Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

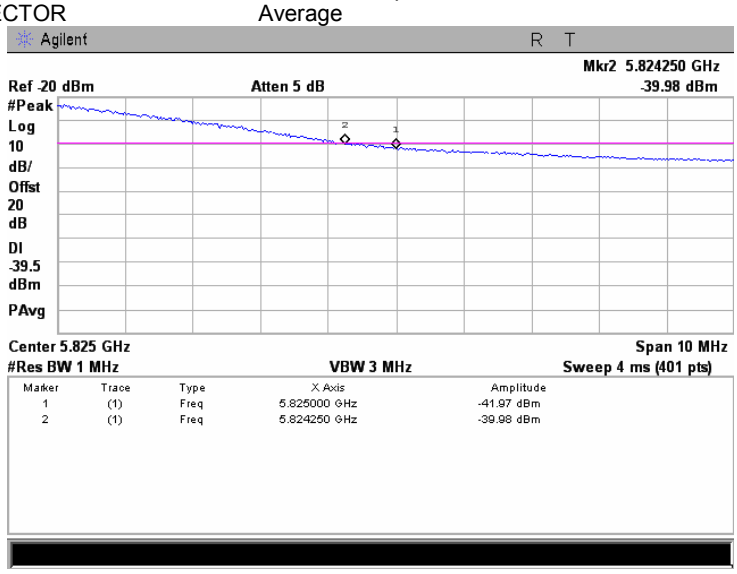
Plot 7.5.37 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps
DETECTOR Peak



Plot 7.5.38 Conducted spurious emission measurements at the band edges

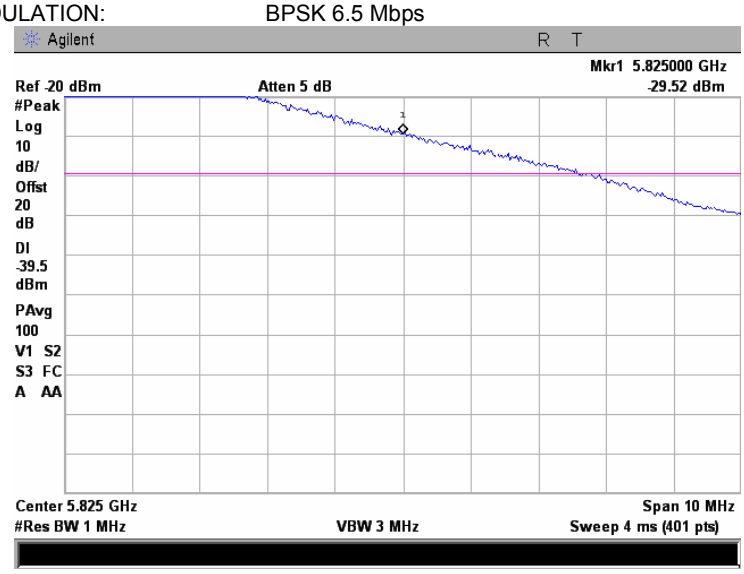
CARRIER FREQUENCY 5810 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps
DETECTOR Average



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

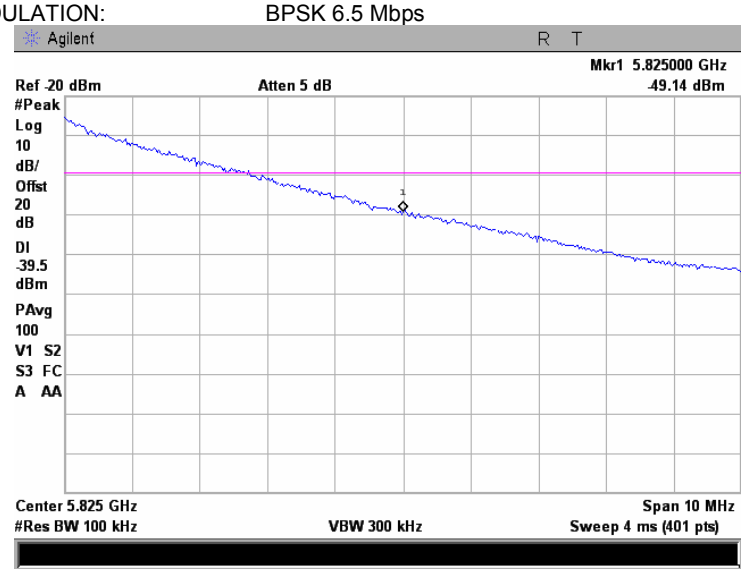
Plot 7.5.39 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Plot 7.5.40 Conducted spurious emission measurements at the band edges

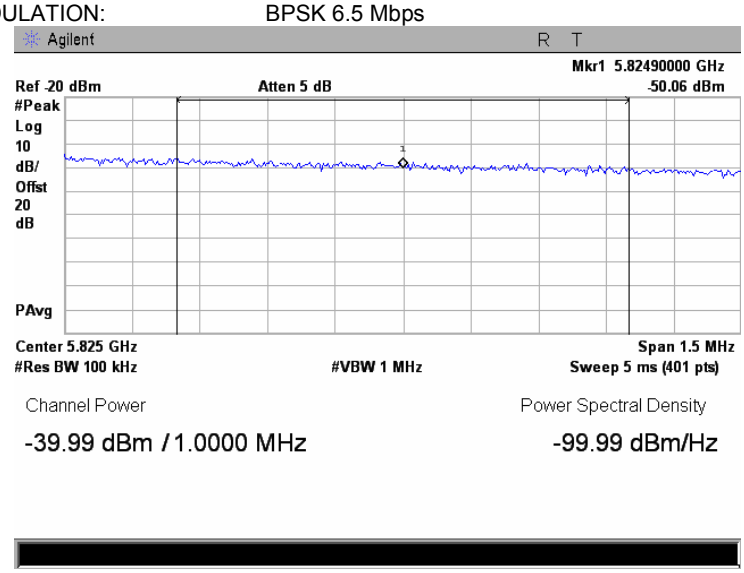
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.41 Conducted spurious emission measurements at the band edges

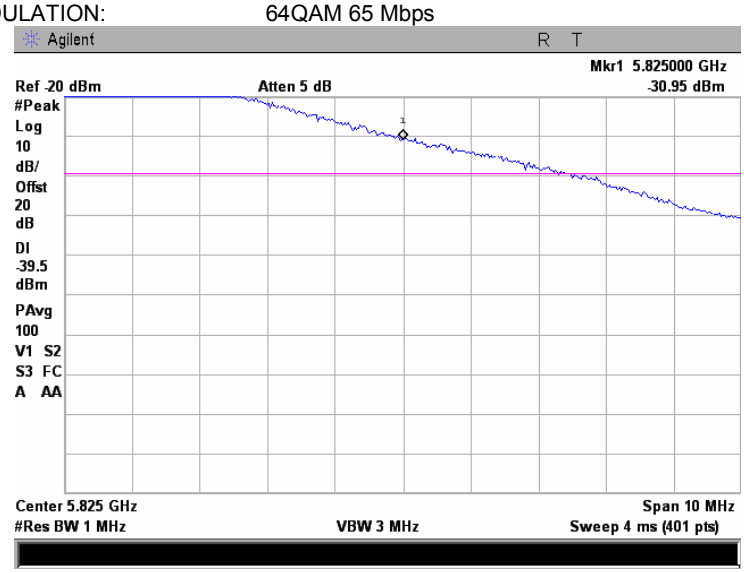
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: BPSK 6.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

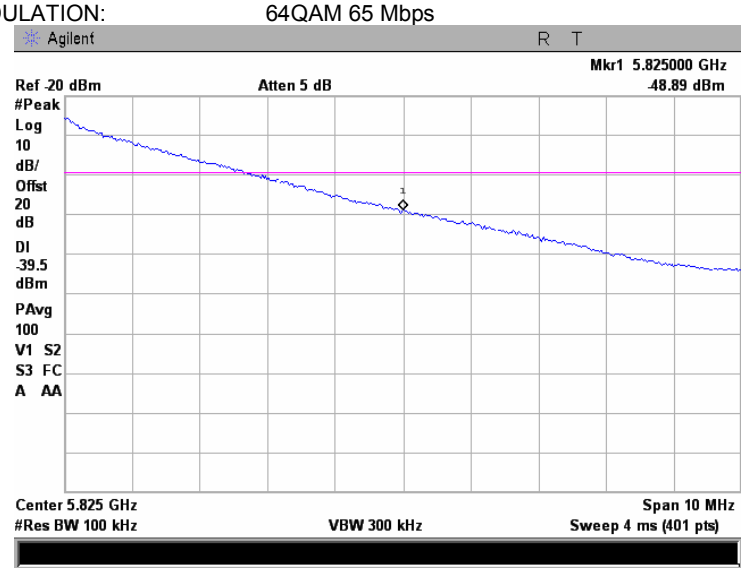
Plot 7.5.42 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Plot 7.5.43 Conducted spurious emission measurements at the band edges

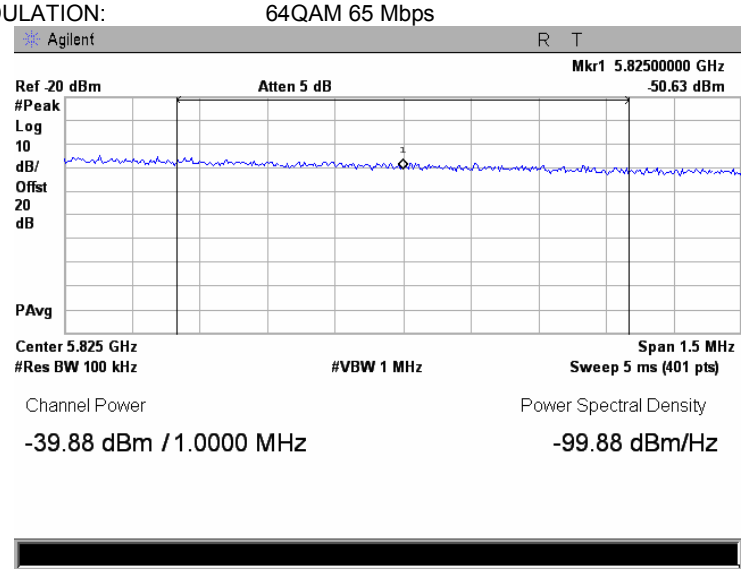
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.44 Conducted spurious emission measurements at the band edges

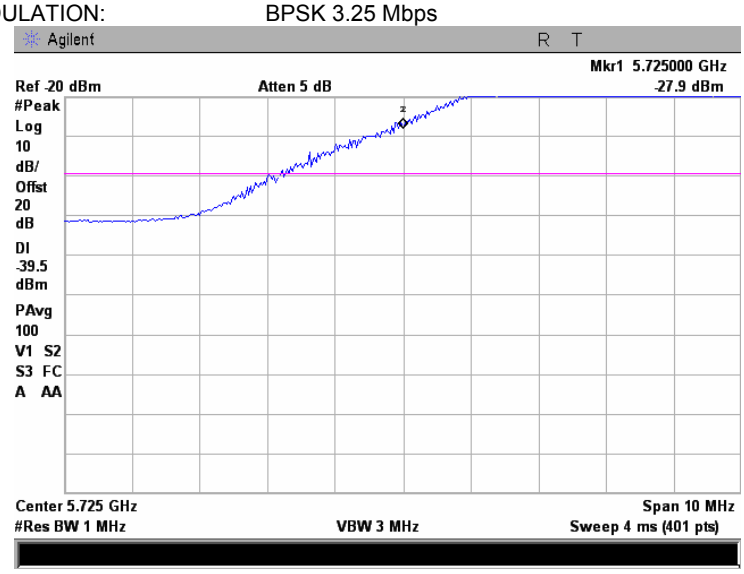
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 10 MHz
MODULATION: 64QAM 65 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

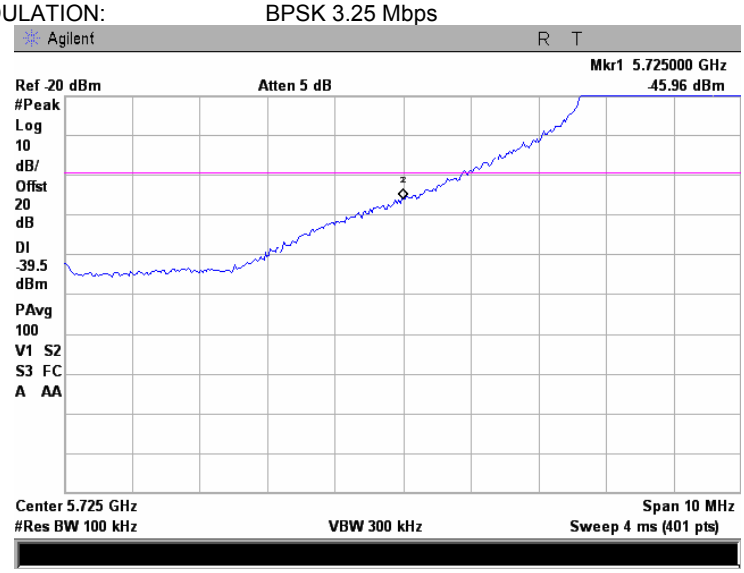
Plot 7.5.45 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.5.46 Conducted spurious emission measurements at the band edges

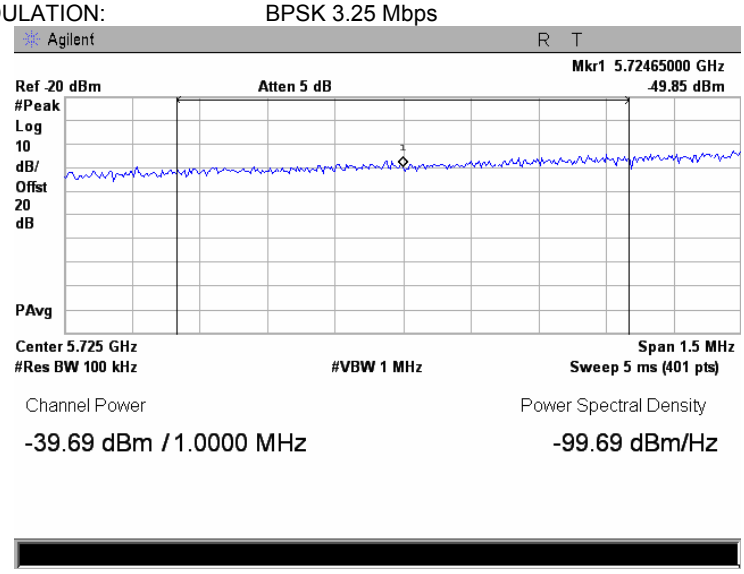
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.47 Conducted spurious emission measurements at the band edges

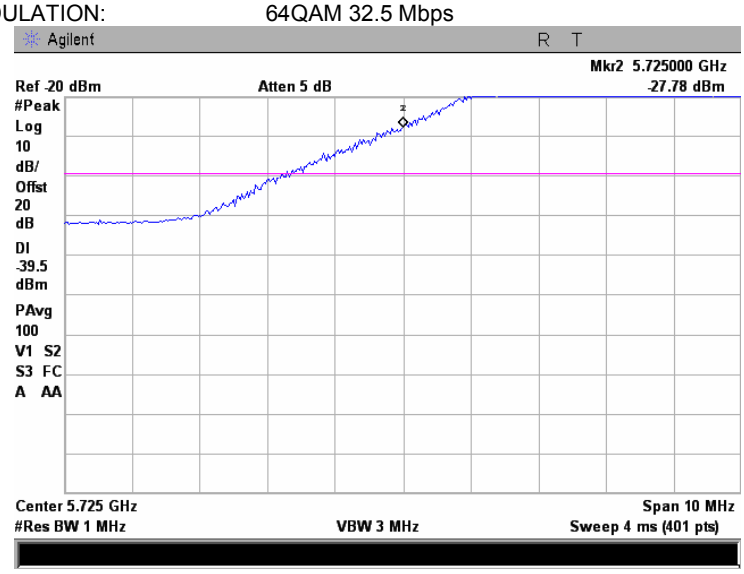
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

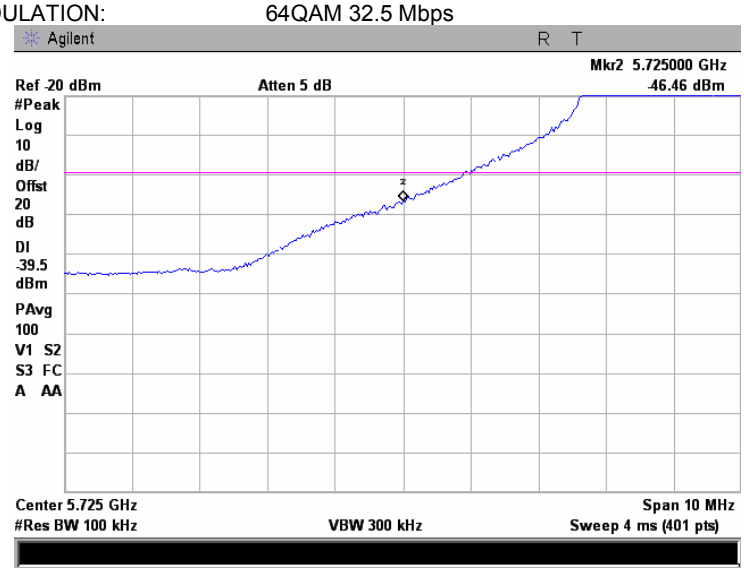
Plot 7.5.48 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.5.49 Conducted spurious emission measurements at the band edges

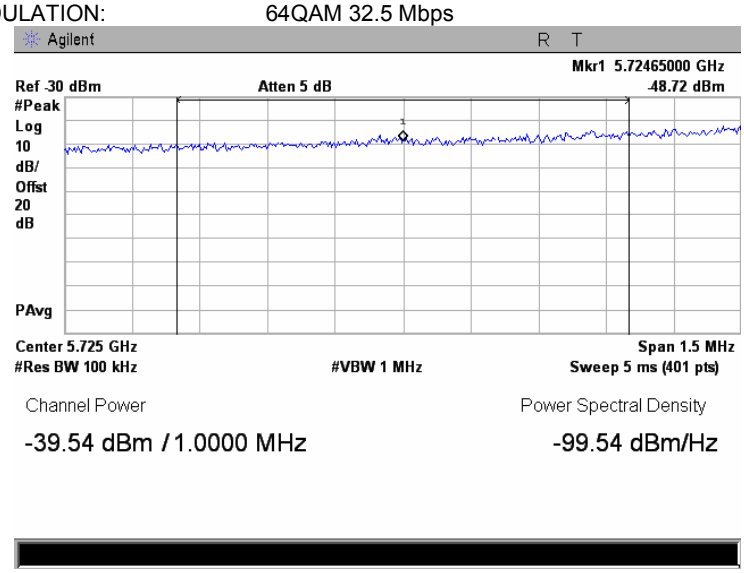
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.50 Conducted spurious emission measurements at the band edges

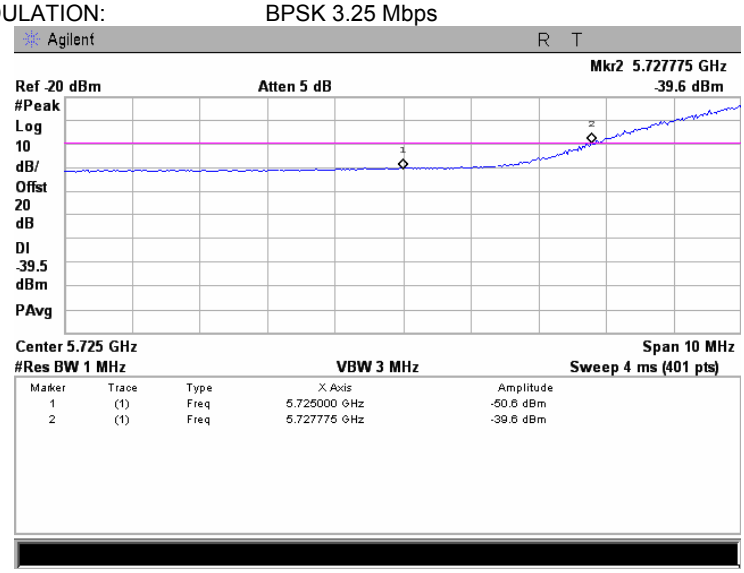
CARRIER FREQUENCY 5730 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

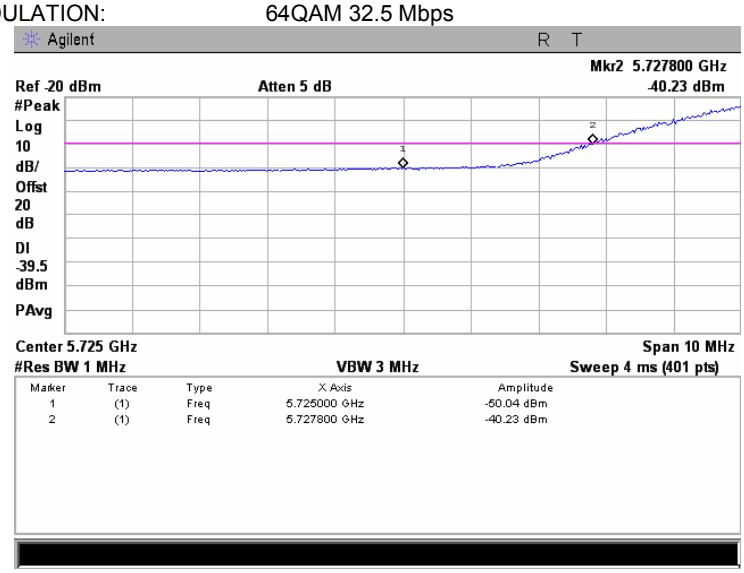
Plot 7.5.51 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.5.52 Conducted spurious emission measurements at the band edges

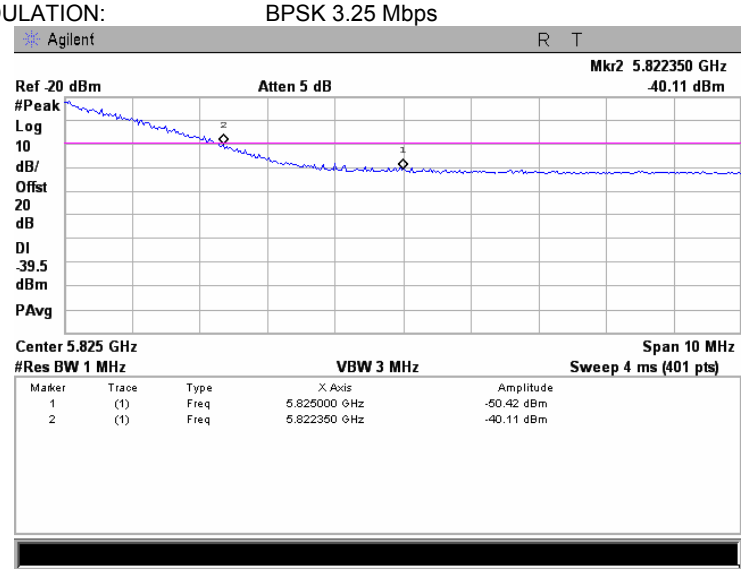
CARRIER FREQUENCY 5735 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

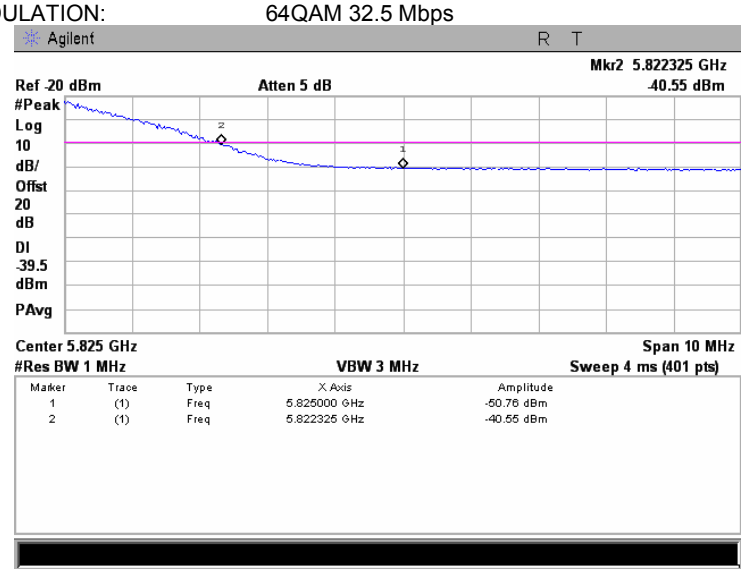
Plot 7.5.53 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.5.54 Conducted spurious emission measurements at the band edges

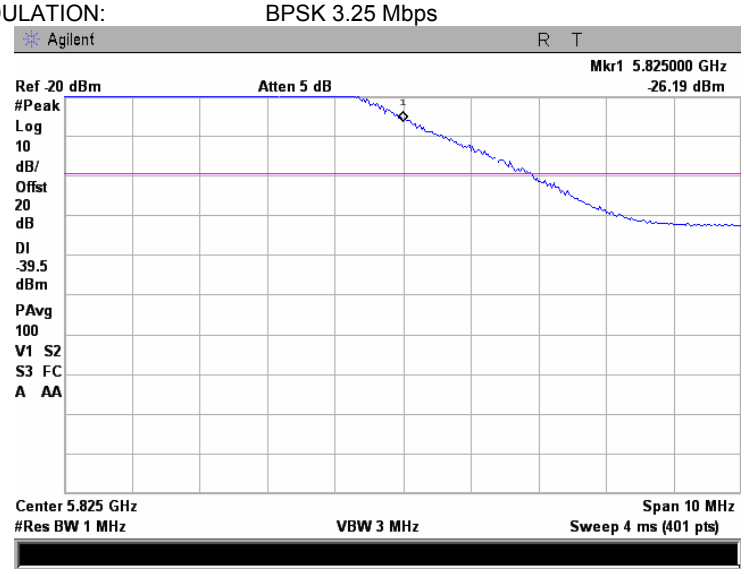
CARRIER FREQUENCY 5815 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

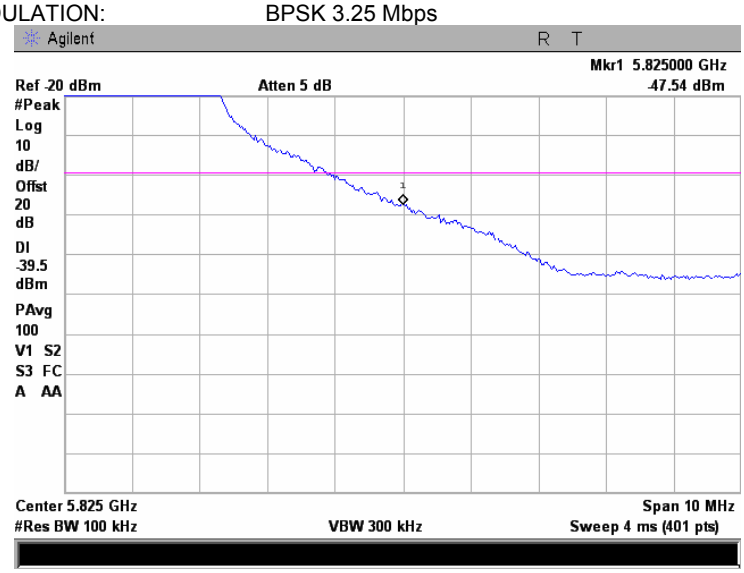
Plot 7.5.55 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Plot 7.5.56 Conducted spurious emission measurements at the band edges

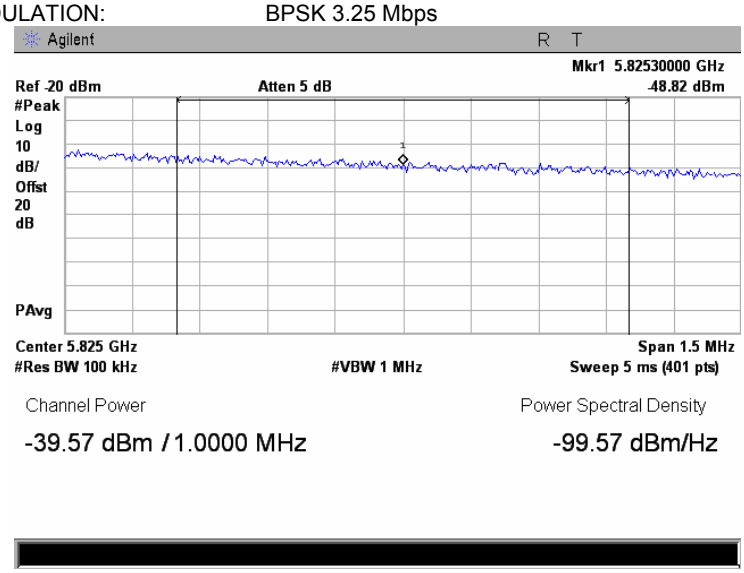
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.57 Conducted spurious emission measurements at the band edges

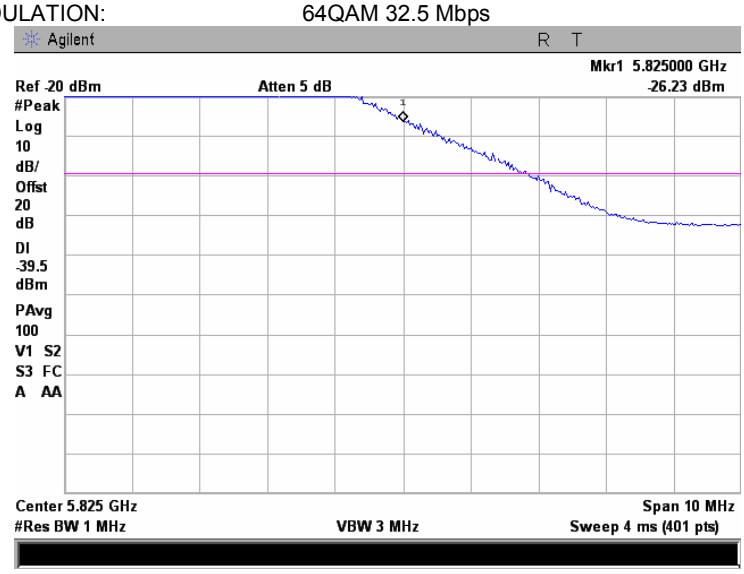
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: BPSK 3.25 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

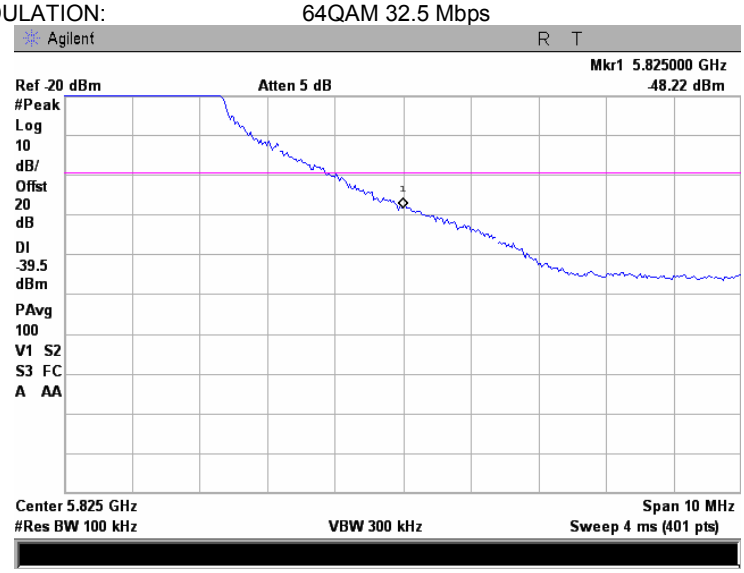
Plot 7.5.58 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Plot 7.5.59 Conducted spurious emission measurements at the band edges

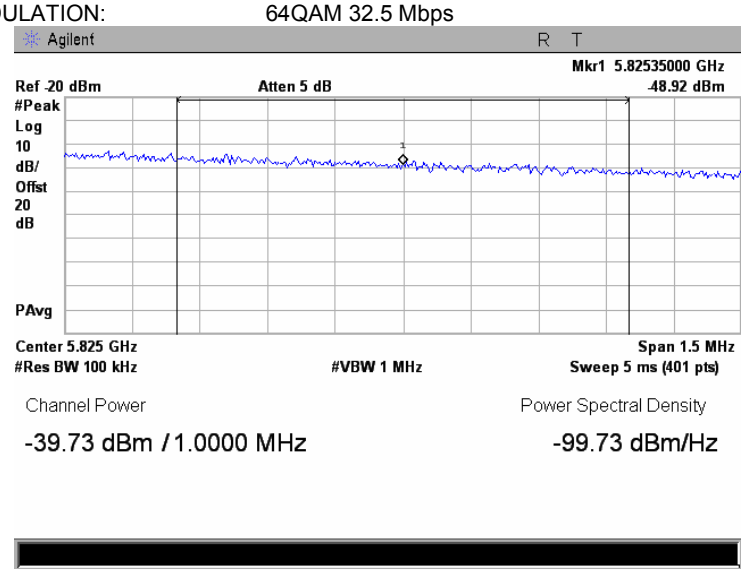
CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC section 15.407(g), Frequency stability		
Test procedure:	Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Plot 7.5.60 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5820 MHz
CHANNEL BANDWIDTH 5 MHz
MODULATION: 64QAM 32.5 Mbps



Test specification:	FCC Part 15, section 203, RSS-Gen section 7.1.2, Antenna requirements		
Test procedure:	Visual inspection / supplier declaration		
Test mode:	Compliance	Verdict:	PASS
Date:	3/29/2010		
Temperature: 23.7ºC	Air Pressure: 1012 hPa	Relative Humidity: 46%	Power Supply: 120 VAC
Remarks:			

7.6 Antenna requirements

The EUT was verified for compliance with antenna requirements. A transmitter shall be designed to ensure that no antenna other than that furnished by the responsible party will be used with the device. It may be either permanently attached or employs a unique antenna connector for every antenna proposed for use with the EUT. This requirement does not apply to professionally installed transmitters.
The rationale for compliance with the above requirements was either visual inspection results or supplier declaration. The summary of results is provided in Table 7.6.1.

Table 7.6.1 Antenna requirements

Requirement	Rationale	Verdict
The transmitter antenna is permanently attached (integral)	Visual inspection	Comply
The transmitter employs a unique antenna connector	NA	
The transmitter requires professional installation (external)	Visual inspection	

Test specification:	FCC part 15 section 15.207(a), RSS-Gen section 7.2.4, Conducted emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/29/2010		
Temperature: 23.5ºC	Air Pressure: 1012 hPa	Relative Humidity: 46%	Power Supply: 120 VAC
Remarks:			

7.7 Conducted emissions

7.7.1 General

This test was performed to measure common mode conducted emissions at the power port. Specification test limits are given in Table 7.7.1.

Table 7.7.1 Limits for conducted emissions

Frequency, MHz	Class B limit, dB(µV)	
	QP	AVRG
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5.0	56	46
5.0 - 30	60	50

* - The limit decreases linearly with the logarithm of frequency.

7.7.2 Test procedure

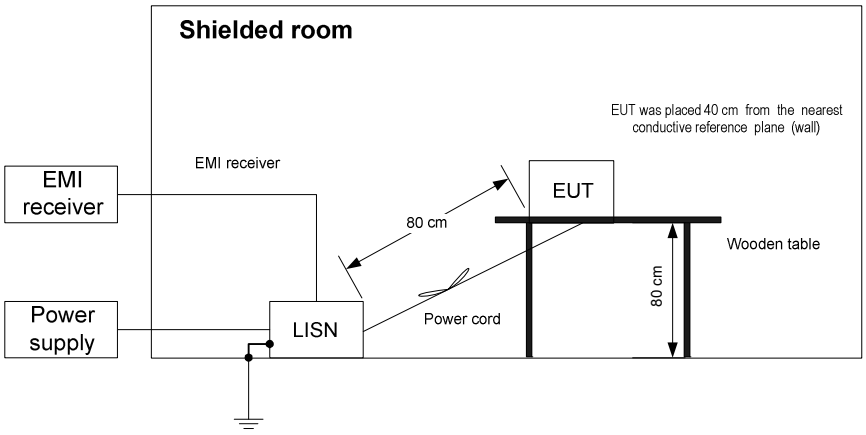
7.7.2.1 The EUT was set up as shown in Figure 7.7.1, energized and the performance check was conducted.

7.7.2.2 The measurements were performed at power terminals with the LISN, connected to a spectrum analyzer while unused coaxial connector of the LISN was terminated with 50 Ohm.

7.7.2.3 The position of the device cables was varied to determine maximum emission level.

7.7.2.4 The worst test results (the lowest margins) were recorded in Table 7.7.2 and shown in the associated plots.

Figure 7.7.1 Setup for conducted emission measurements, table-top equipment



Test specification:	**FCC part 15 section 15.207(a), RSS-Gen section 7.2.4, Conducted emission**		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/29/2010		
Temperature: 23.5ºC	**Air Pressure:** 1012 hPa	**Relative Humidity:** 46%	**Power Supply:** 120 VAC
Remarks:			

Table 7.7.2 Conducted emission test results

LINE: AC mains
EUT OPERATING MODE: Transmit
EUT SET UP: TABLE-TOP
TEST SITE: SHIELDED ROOM
DETECTORS USED: PEAK / QUASI-PEAK / AVERAGE
FREQUENCY RANGE: 150 kHz - 30 MHz
RESOLUTION BANDWIDTH: 9 kHz

Frequency, MHz	Peak emission, dB(µV)	Quasi-peak			Average			Line ID	Verdict
		Measured emission, dB(µV)	Limit, dB(µV)	Margin, dB*	Measured emission, dB(µV)	Limit, dB(µV)	Margin, dB*		
0.196235	53.23	51.50	63.80	-12.30	36.96	53.80	-16.84	L1	Pass
3.531680	47.68	42.30	56.00	-13.70	28.73	46.00	-17.27		
4.290310	49.31	44.83	56.00	-11.17	32.26	46.00	-13.74		
6.730785	56.54	51.82	60.00	-8.18	39.49	50.00	-10.51		
0.195540	51.15	48.87	63.83	-14.96	35.30	53.83	-18.53	L2	Pass
2.353630	47.55	44.76	56.00	-11.24	30.14	46.00	-15.86		
3.462755	48.56	43.31	56.00	-12.69	30.49	46.00	-15.51		
4.289450	50.95	45.90	56.00	-10.10	33.51	46.00	-12.49		
4.636135	50.38	45.19	56.00	-10.81	33.30	46.00	-12.70		
6.521605	57.41	52.87	60.00	-7.13	41.68	50.00	-8.32		

*****- Margin = Measured emission - specification limit.

Reference numbers of test equipment used

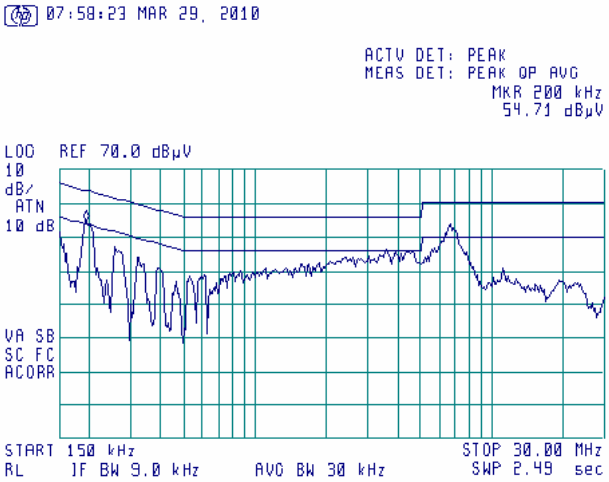
HL 0447	HL 0887	HL 1430	HL 1511	HL 3612			

Full description is given in Appendix A.

Test specification:	FCC part 15 section 15.207(a), RSS-Gen section 7.2.4, Conducted emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/29/2010		
Temperature: 23.5ºC	Air Pressure: 1012 hPa	Relative Humidity: 46%	Power Supply: 120 VAC
Remarks:			

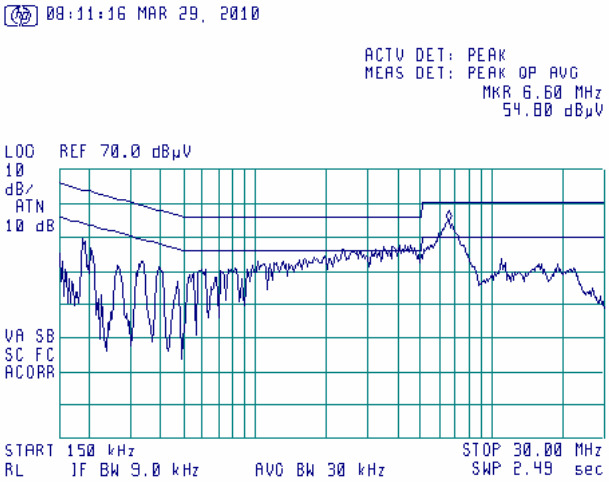
Plot 7.7.1 Conducted emission measurements

LINE: L1
EUT OPERATING MODE: Transmit
LIMIT: QUASI-PEAK, AVERAGE
DETECTOR: PEAK



Plot 7.7.2 Conducted emission measurements

LINE: L2
EUT OPERATING MODE: Transmit
LIMIT: QUASI-PEAK, AVERAGE
DETECTOR: PEAK



Test specification:	FCC part 15 section 15.407(f), RSS-Gen section 5.6, RF exposure		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/29/2010		
Temperature: 23.5ºC	Air Pressure: 1012 hPa	Relative Humidity: 46%	Power Supply: 120 VAC
Remarks:			

7.8 RF exposure

7.8.1 General

This test was performed to determine the minimum safe distance between the transmitter antenna and human to avoid public exposure in excess of limits for general population (uncontrolled exposure). Specification test limits are given in Table 7.8.1.

Table 7.8.1 RF exposure limits

Frequency range, MHz	Power density	
	mW/cm^2	W/m^2
902.0 – 928.0	0.60 – 0.62*	6.0 – 6.2
2400.0 – 2483.5	1.00	10.0
5725.0 – 5850.0	**1.00**	**10.0**

*- Power density limit within 300 - 1500 MHz was calculated according to the following equation: S = F / 1500, where S is power density in mW/cm^2 and F is frequency in MHz.

7.8.2 Safe distance calculation for fixed transmitter

The minimum safe distance was calculated from the following equation as provided in Table 7.8.2:

$$r = sqrt[P \times G / (4 \times \pi \times S)],$$

where S is power density in W/m^2 , P is the transmitter output power in W, G is the transmitter antenna numeric gain and r is distance to transmit antenna in m.
With power density equal to the RF exposure limit the minimum safe distance was calculated according to the following equation: $r = sqrt[P \times G / (4 \times \pi \times S])$

Table 7.8.2 Safe distance calculation

ASSIGNED FREQUENCY: 5725 - 5825 MHz
EQUIPMENT INTENDED USE: Fixed*

Carrier frequency, MHz	Peak output power, dBm	Antenna gain, dBi	EIRP		Power density limit, W/m^2	Safe distance, m**	Intended separation, m	Verdict
			dBm	W				
10MHz								
5755	24.54	27.9 (external dish and feeder)	52.44	175.39	10.0	1.18	2.0	Pass
5740	26.39	22.5 (integrated flat)	48.89	77.45	10.0	0.79	2.0	Pass
5740	26.39	22.5 (external flat with feeder)	48.89	77.45	10.0	0.79	2.0	Pass

* - The equipment deemed fixed as intended for use at a distance of more than 2.0 m from humans.

Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

8 Tests according to RSS-Gen requirements

8.1 Occupied bandwidth

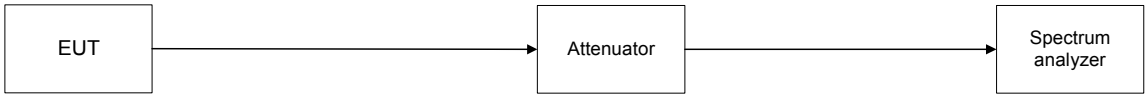
8.1.1 General

This test was performed to measure 99% power occupied bandwidth of the EUT carrier frequency.

8.1.2 Test procedure

8.1.2.1 The EUT was set up as shown in Figure 8.1.1, energized and its proper operation was checked.
8.1.2.2 The EUT was set to transmit modulated carrier.
8.1.2.3 The transmitter minimum 99% emission bandwidth was measured with spectrum analyzer as frequency delta between reference points on modulation envelope and provided in Table 8.1.1.

Figure 8.1.1 The 99% power occupied bandwidth test setup



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

Table 8.1.1 The 99% power occupied bandwidth test results

ASSIGNED FREQUENCY BAND:	5725 – 5825 MHz
DETECTOR USED:	Sample
SWEEP MODE:	Single, 1s
RESOLUTION BANDWIDTH:	1-3 % of approximate emission width
VIDEO BANDWIDTH:	3 times RBW
MODULATION ENVELOPE REFERENCE POINTS:	99% power
MODULATING SIGNAL:	PRBS
TRANSMITTER POWER:	Maximum

EMISSION BANDWIDTH 40 MHz

Frequency, MHz	Modulation	Bit rate, Mbps	99% emission bandwidth, MHz
5745	BPSK	27	36.1976
	64QAM	270	36.6372
5775	BPSK	27	36.2818
	64QAM	270	36.5005
5805	BPSK	27	36.0649
	64QAM	270	36.2682

EMISSION BANDWIDTH 20 MHz

Frequency, MHz	Modulation	Bit rate, Mbps	99% emission bandwidth, MHz
5735	BPSK	13	17.6054
	64QAM	130	17.6322
5740	BPSK	13	17.6091
	64QAM	130	17.5958
5775	BPSK	13	17.5491
	64QAM	130	17.6193
5810	BPSK	13	17.7289
	64QAM	130	17.5928
5815	BPSK	13	17.5700
	64QAM	130	17.5948

Test specification:	**RSS-Gen section 4.6.1, occupied bandwidth**		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	**Air Pressure:** 1013 hPa	**Relative Humidity:** 47 %	**Power Supply:** 120 VAC
Remarks:			

Table 8.1.1 The 99% power occupied bandwidth test results (continued)

ASSIGNED FREQUENCY BAND:	5725 – 5825 MHz
DETECTOR USED:	Sample
SWEEP MODE:	Single, 1s
RESOLUTION BANDWIDTH:	1-3 % of approximate emission width
VIDEO BANDWIDTH:	3 times RBW
MODULATION ENVELOPE REFERENCE POINTS:	99% power
MODULATING SIGNAL:	PRBS
TRANSMITTER POWER:	Maximum

EMISSION BANDWIDTH 10 MHz

Frequency, MHz	Modulation	Bit rate, Mbps	99% emission bandwidth, MHz
5730	BPSK	6.5	8.8024
	64QAM	65	8.8214
5735	BPSK	6.5	8.8585
	64QAM	65	8.8491
5775	BPSK	6.5	8.8951
	64QAM	65	8.8076
58515	BPSK	6.5	8.9001
	64QAM	65	8.8298
5820	BPSK	6.5	8.9016
	64QAM	65	8.8415

EMISSION BANDWIDTH 5 MHz

Frequency, MHz	Modulation	Bit rate, Mbps	99% emission bandwidth, MHz
5730	BPSK	3.25	4.5092
	64QAM	32.5	4.4811
5775	BPSK	3.25	4.4092
	64QAM	32.5	4.4502
5820	BPSK	3.25	4.4848
	64QAM	32.5	4.4871

Reference numbers of test equipment used

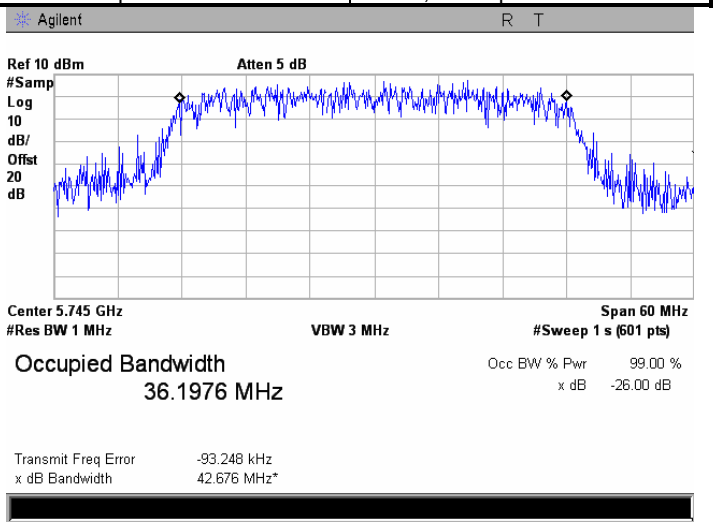
HL 2909	HL 2953	HL 3768	HL 3776	HL 3787				

Full description is given in Appendix A.

Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

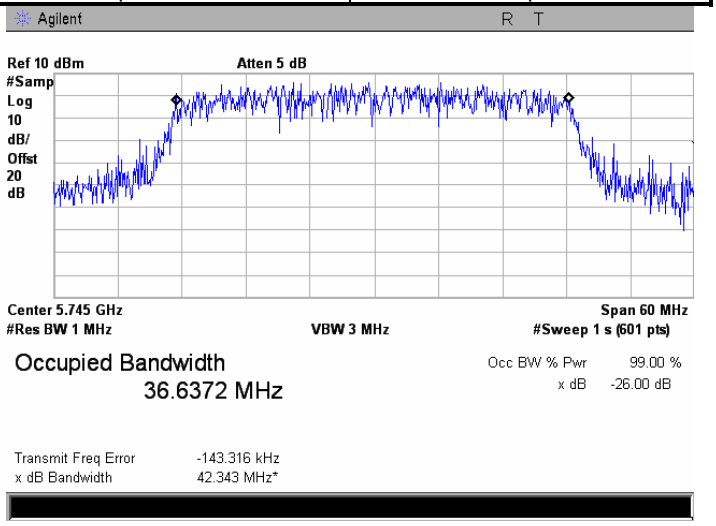
Plot 8.1.1 The 99%power bandwidth test result at low frequency

Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps



Plot 8.1.2 The 99%power bandwidth test result at low frequency

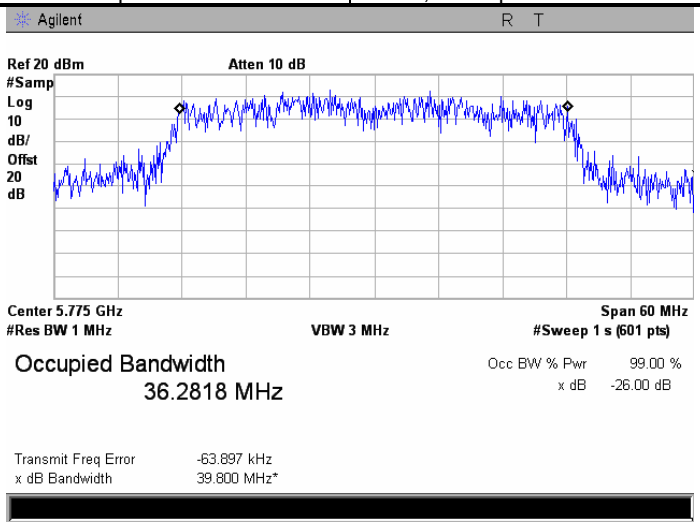
Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

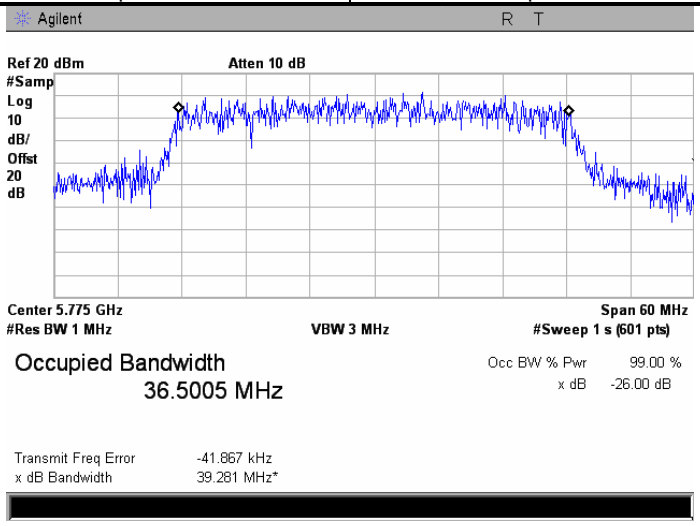
Plot 8.1.3 The 99%power bandwidth test result at low frequency

Frequency:	5775 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps



Plot 8.1.4 The 99%power bandwidth test result at low frequency

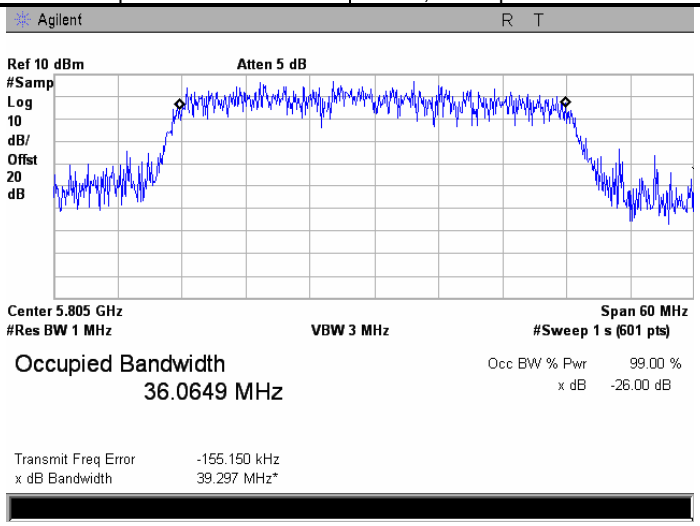
Frequency:	5775 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

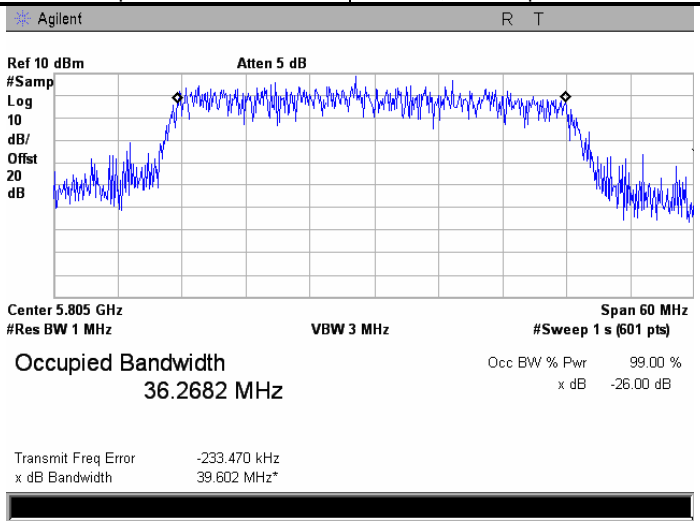
Plot 8.1.5 The 99%power bandwidth test result at low frequency

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps



Plot 8.1.6 The 99%power bandwidth test result at low frequency

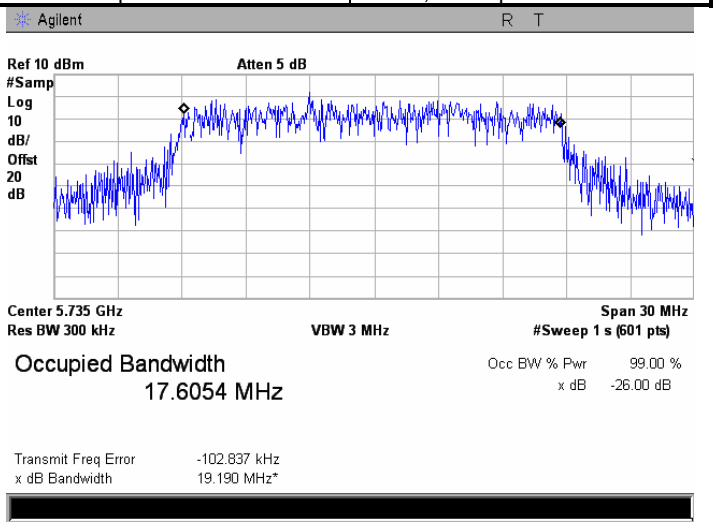
Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

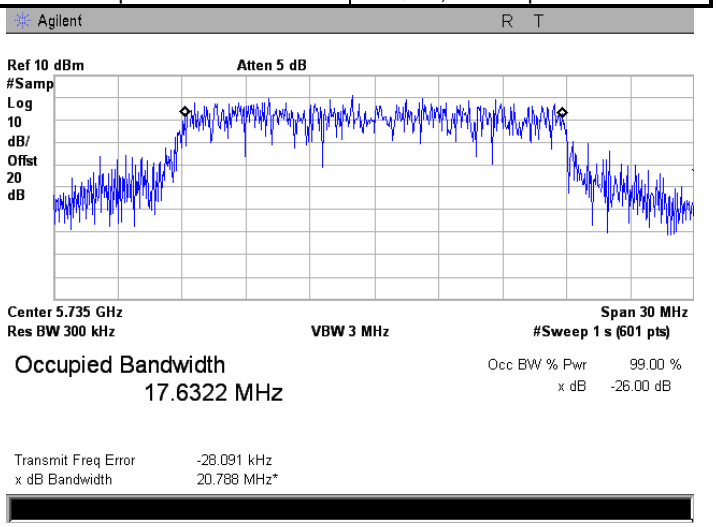
Plot 8.1.7 The 99%power bandwidth test result at low frequency

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 8.1.8 The 99%power bandwidth test result at low frequency

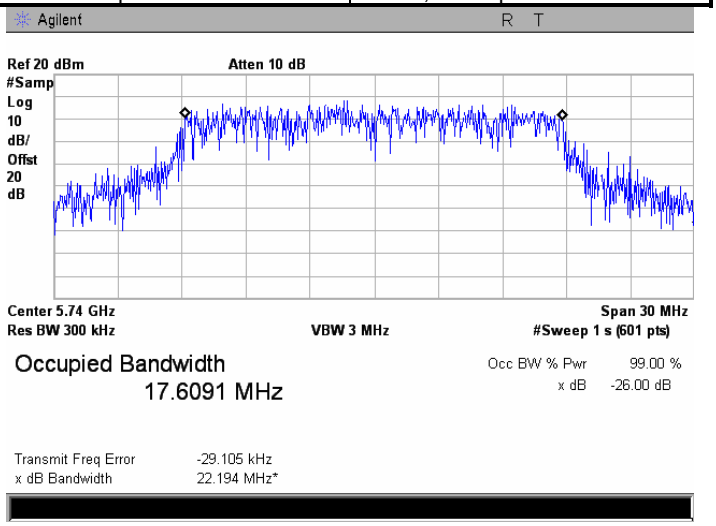
Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

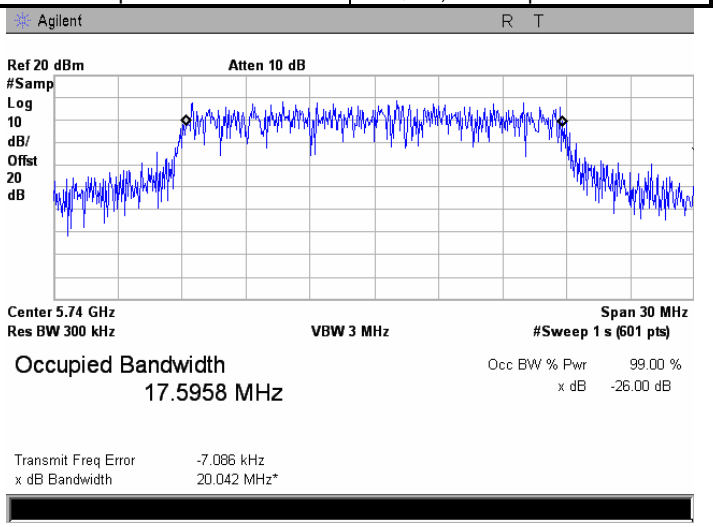
Plot 8.1.9 The 99%power bandwidth test result at low frequency

Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 8.1.10 The 99%power bandwidth test result at low frequency

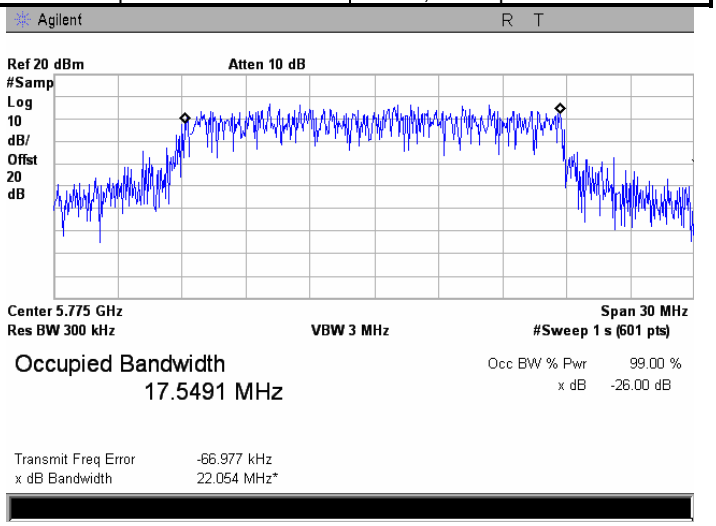
Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

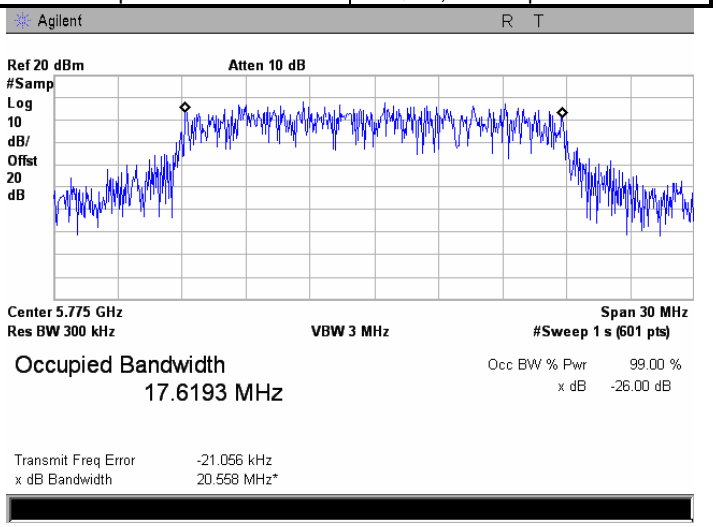
Plot 8.1.11 The 99%power bandwidth test result at low frequency

Frequency:	5775 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 8.1.12 The 99%power bandwidth test result at low frequency

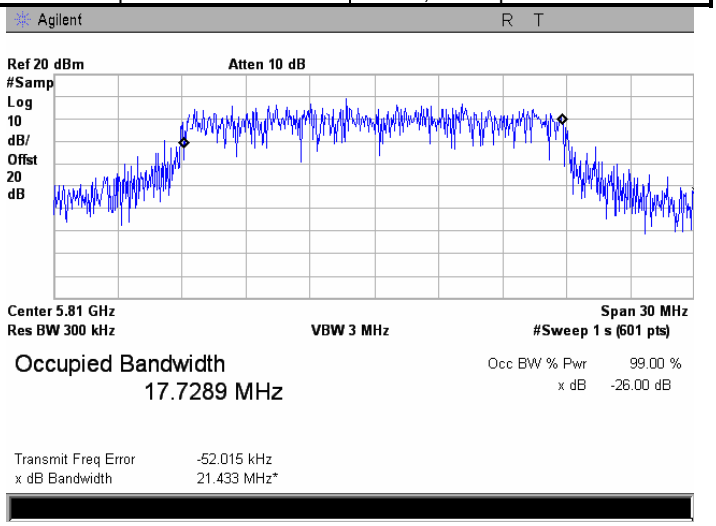
Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

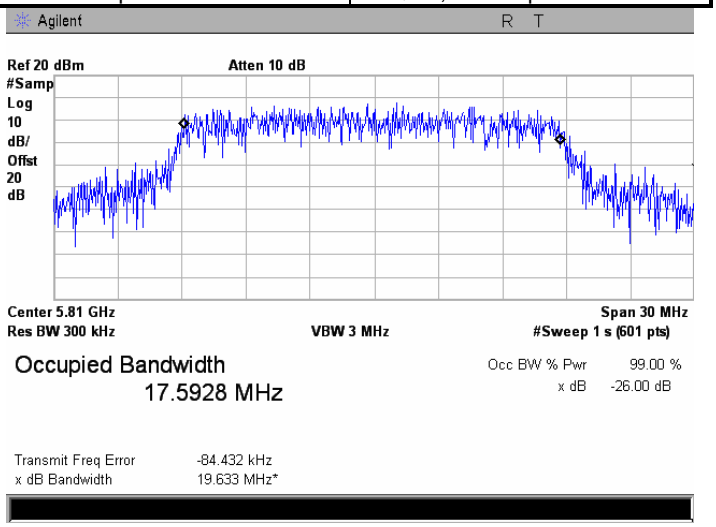
Plot 8.1.13 The 99%power bandwidth test result at low frequency

Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 8.1.14 The 99%power bandwidth test result at low frequency

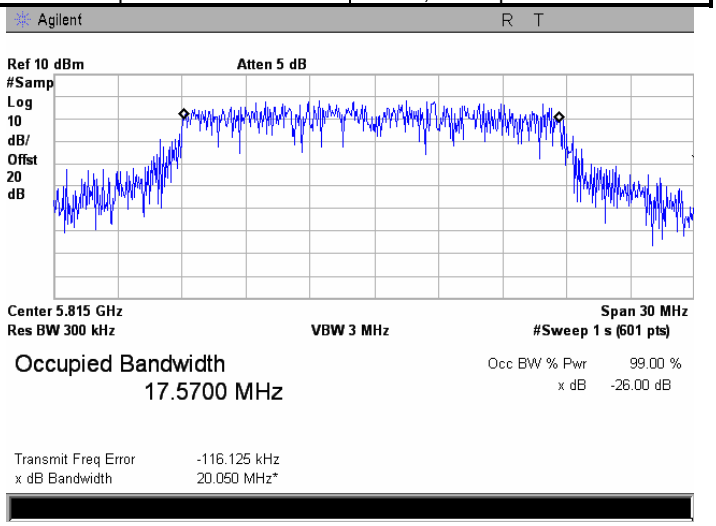
Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

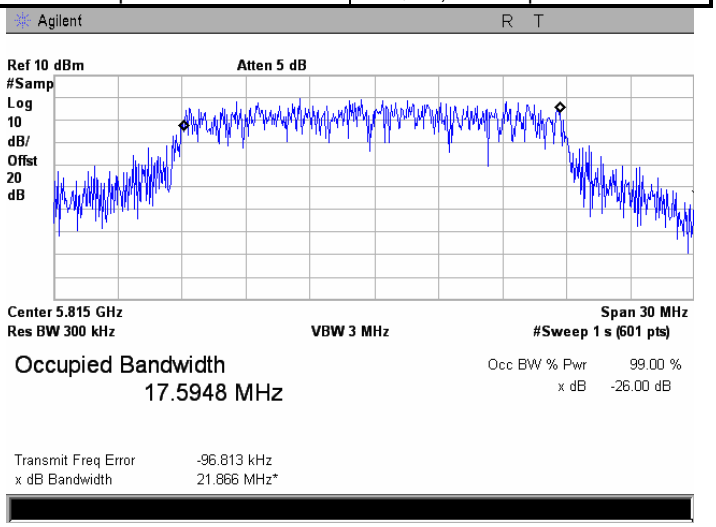
Plot 8.1.15 The 99%power bandwidth test result at low frequency

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 8.1.16 The 99%power bandwidth test result at low frequency

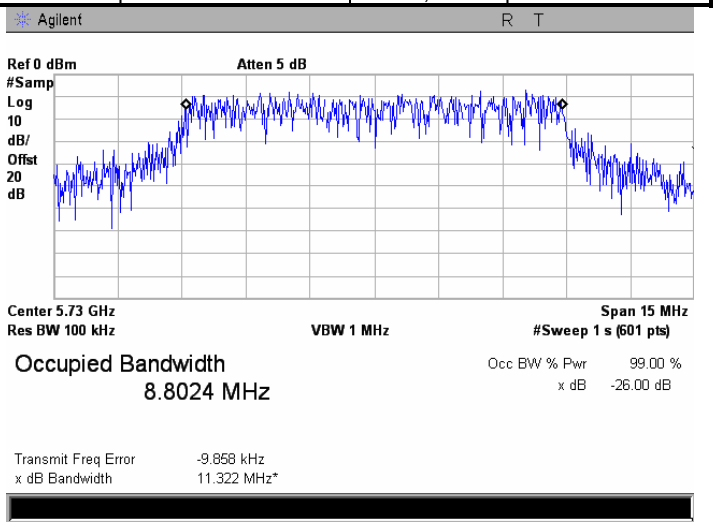
Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

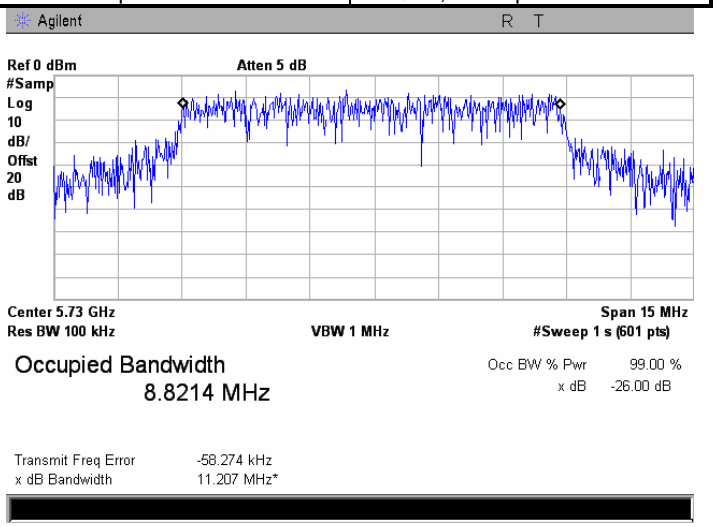
Plot 8.1.17 The 99%power bandwidth test result at low frequency

Frequency:	5730 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 8.1.18 The 99%power bandwidth test result at low frequency

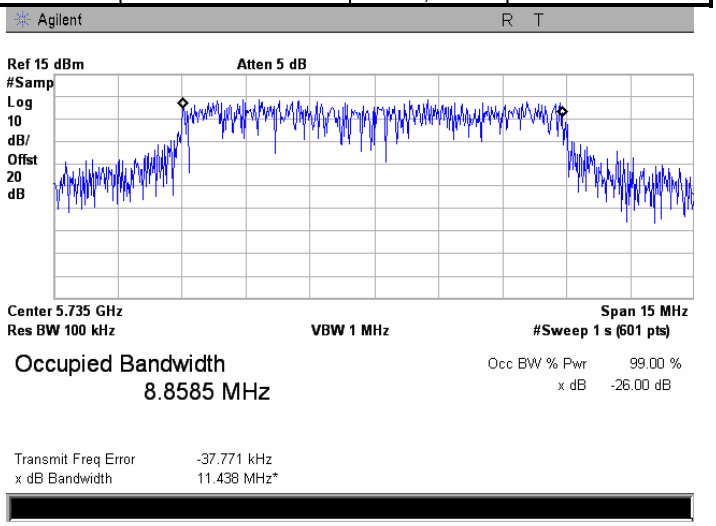
Frequency:	5730 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

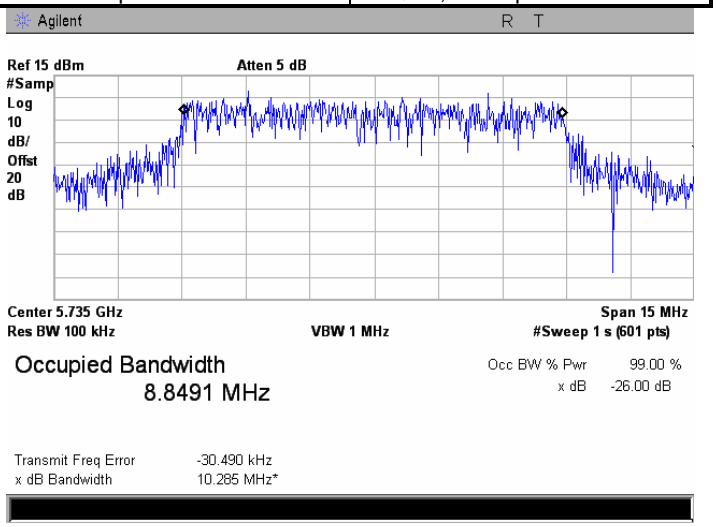
Plot 8.1.19 The 99%power bandwidth test result at low frequency

Frequency:	5735 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 8.1.20 The 99%power bandwidth test result at low frequency

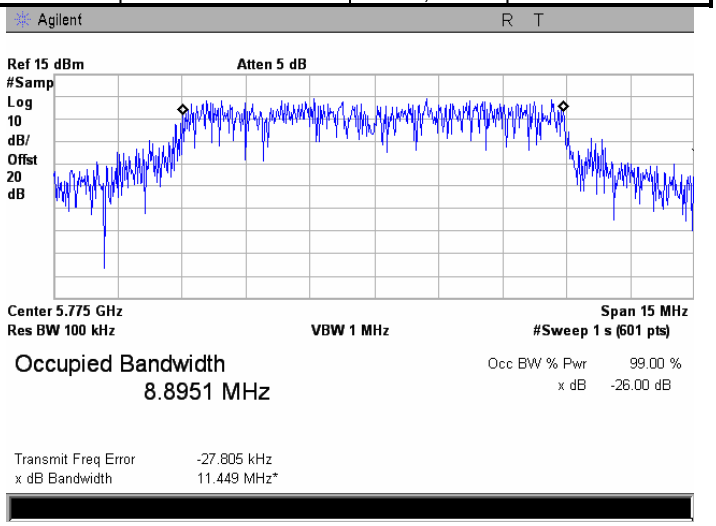
Frequency:	5735 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

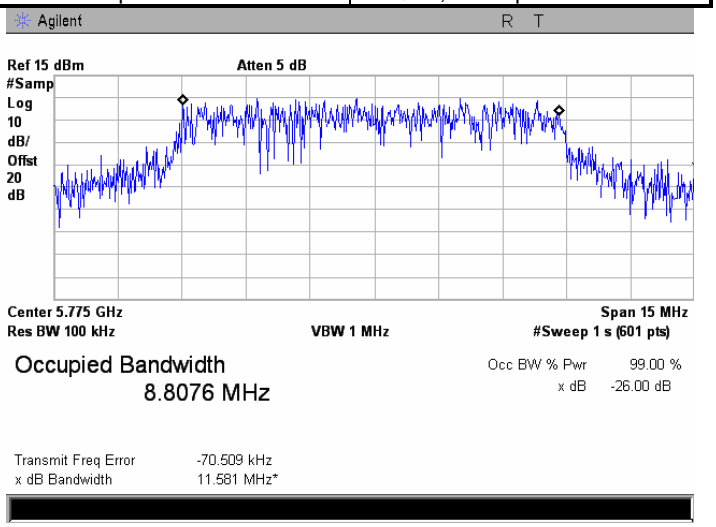
Plot 8.1.21 The 99%power bandwidth test result at low frequency

Frequency:	5775 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 8.1.22 The 99%power bandwidth test result at low frequency

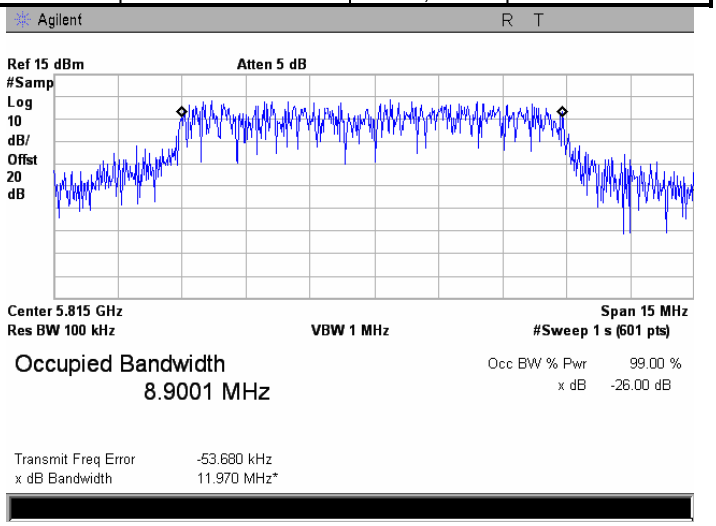
Frequency:	5775 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

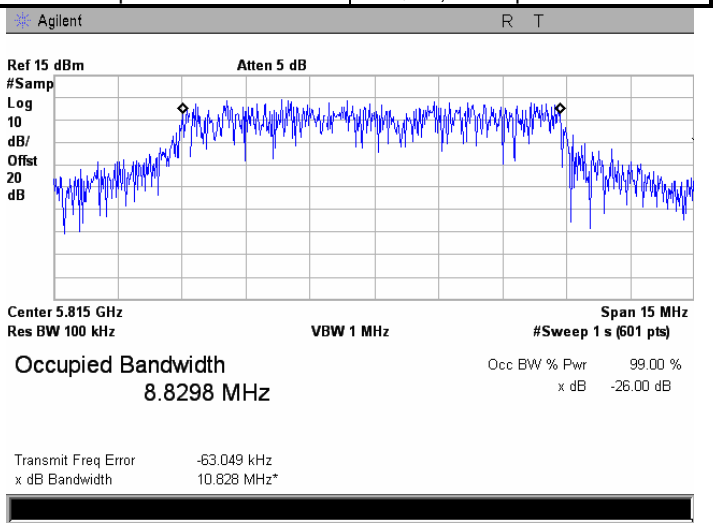
Plot 8.1.23 The 99%power bandwidth test result at low frequency

Frequency:	5815 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 8.1.24 The 99%power bandwidth test result at low frequency

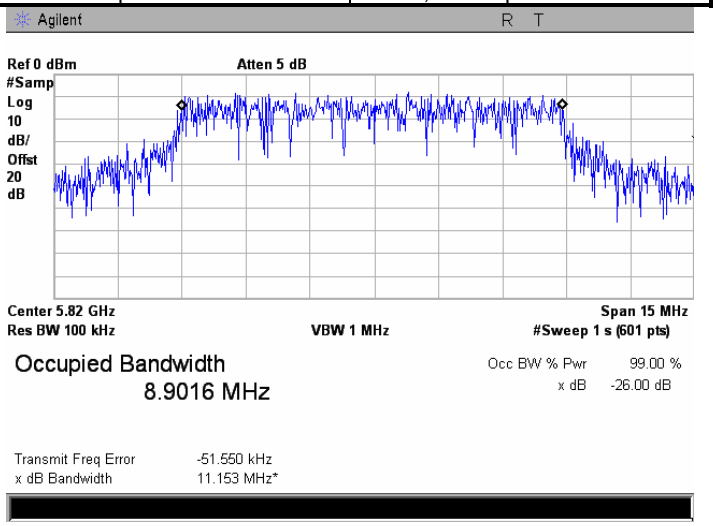
Frequency:	5815 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7ºC	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

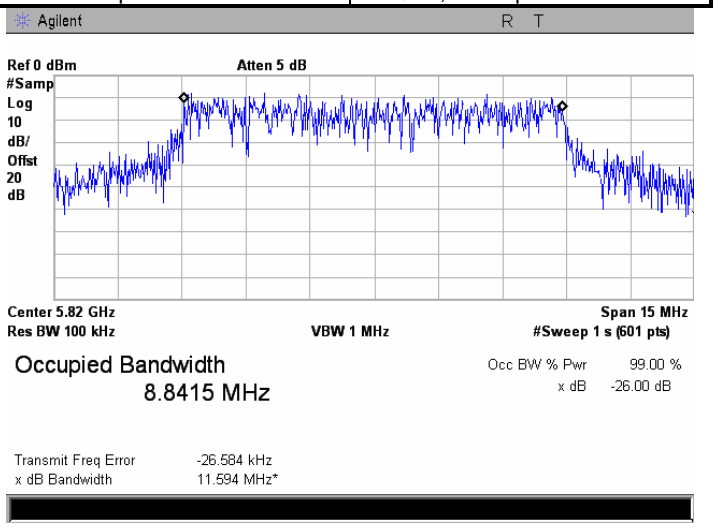
Plot 8.1.25 The 99%power bandwidth test result at low frequency

Frequency:	5820 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 8.1.26 The 99%power bandwidth test result at low frequency

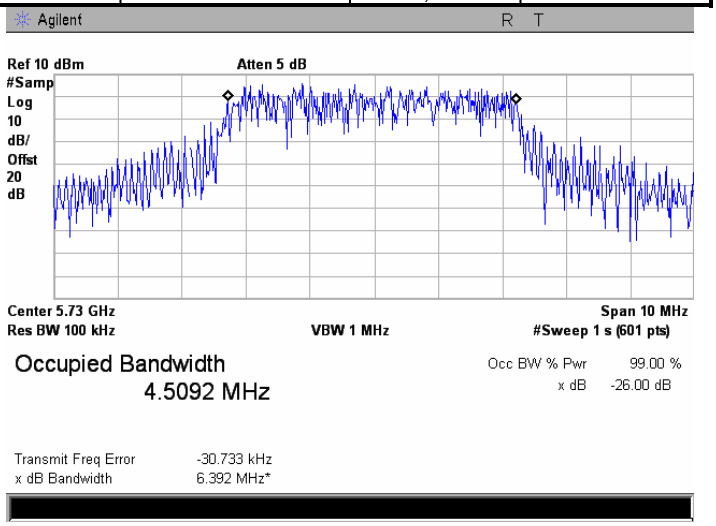
Frequency:	5820 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

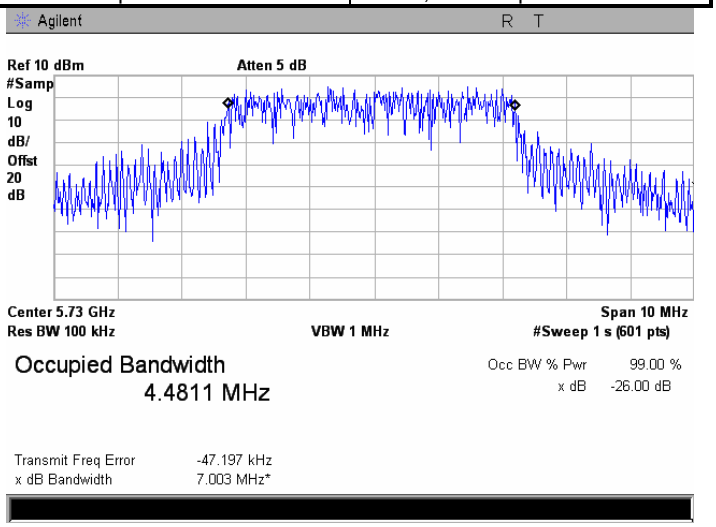
Plot 8.1.27 The 99%power bandwidth test result at low frequency

Frequency:	5730 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 8.1.28 The 99%power bandwidth test result at low frequency

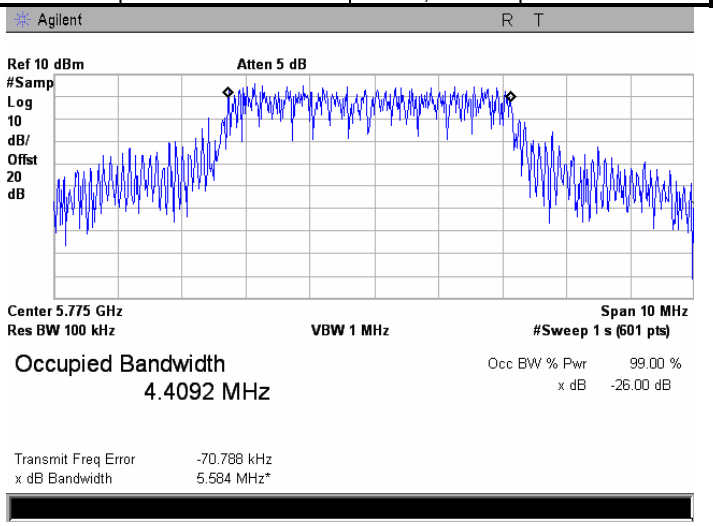
Frequency:	5730 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

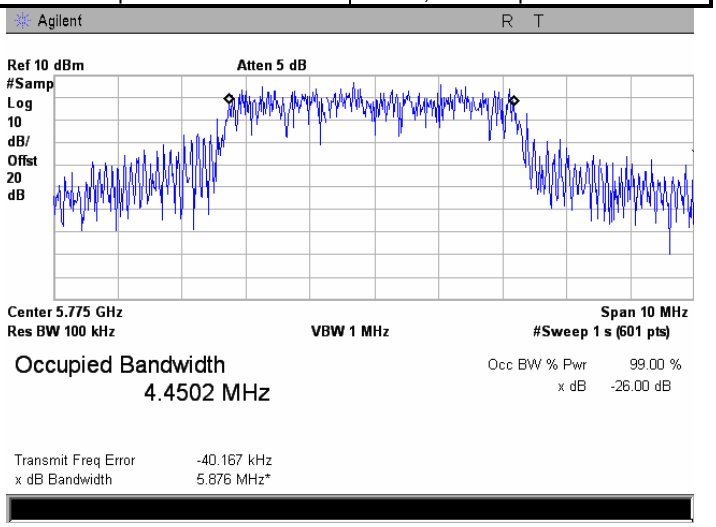
Plot 8.1.29 The 99%power bandwidth test result at low frequency

Frequency:	5775 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 8.1.30 The 99%power bandwidth test result at low frequency

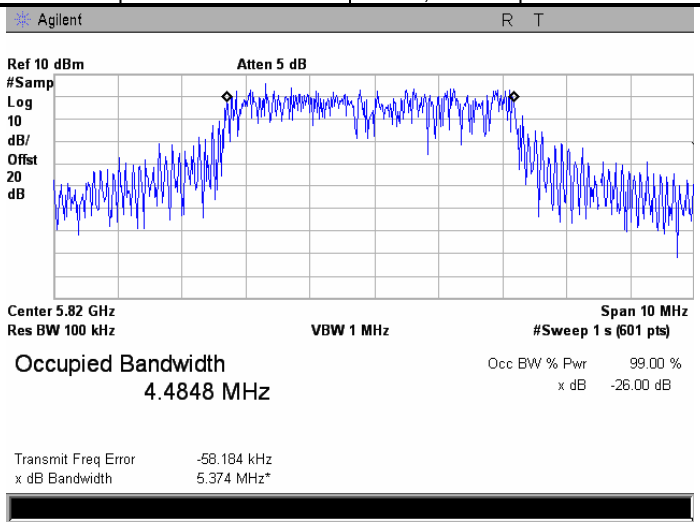
Frequency:	5775 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



Test specification:	RSS-Gen section 4.6.1, occupied bandwidth		
Test procedure:	RSS-Gen section 4.6.1		
Test mode:	Compliance	Verdict:	PASS
Date:	3/25/2010		
Temperature: 23.7°C	Air Pressure: 1013 hPa	Relative Humidity: 47 %	Power Supply: 120 VAC
Remarks:			

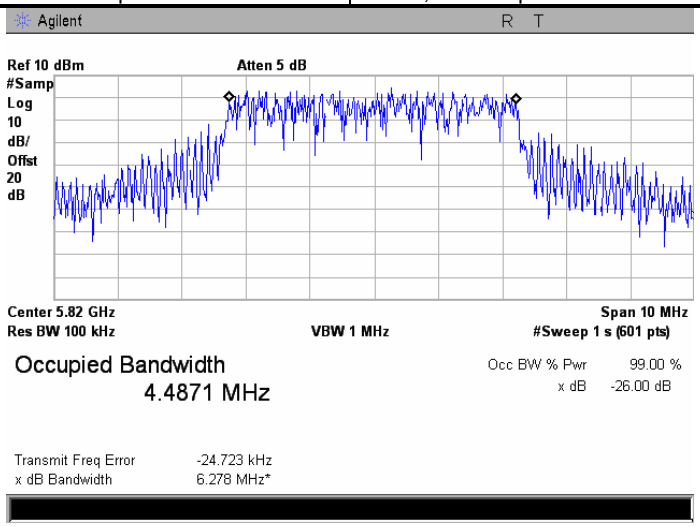
Plot 8.1.31 The 99%power bandwidth test result at low frequency

Frequency:	5820 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 8.1.32 The 99%power bandwidth test result at low frequency

Frequency:	5820 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 32.5 Mbps



Test specification:	RSS-Gen sections 6, 4.10, spurious radiated emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	Air Pressure: 1016 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks:			

8.2 Receiver radiated spurious emission measurements

8.2.1 General

This test was performed to measure radiated emissions from the EUT enclosure. Specification test limits are given in Table 8.2.1.

Table 8.2.1 Radiated emission limits

Frequency, MHz	Field strength limit at 3 m test distance, dB(μV/m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960 -3rd harmonic*	54.0

* - harmonic of the highest frequency the EUT generates, uses, operates or tunes to.

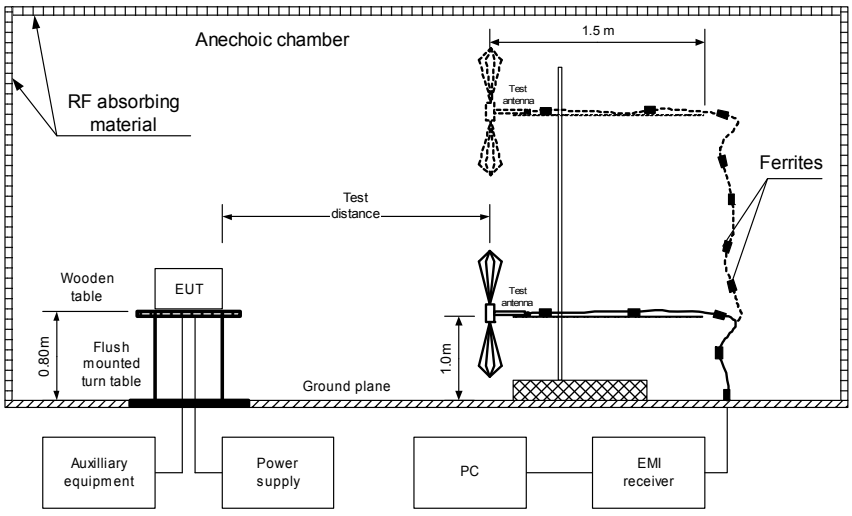
8.2.2 Test procedure

8.2.2.1 The EUT was set up as shown in Figure 8.2.1, energized and the performance check was conducted.

8.2.2.2 The specified frequency range was investigated with biconilog antenna connected to EMI receiver. To find maximum radiation the turntable was rotated 360^0, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal and the EUT cables position was varied.

8.2.2.3 The worst test results (the lowest margins) were provided in the associated tables and plots.

Figure 8.2.1 Setup for radiated emission measurements in anechoic chamber, table-top equipment



Test specification:	**RSS-Gen sections 6, 4.10, spurious radiated emission**		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	**Air Pressure:** 1016 hPa	**Relative Humidity:** 51 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 8.2.2 Radiated emission test results

ASSIGNED FREQUENCY: 5725 - 5825 MHz
INVESTIGATED FREQUENCY RANGE: 30 - 17500 MHz
TEST SITE Semi Anechoic Chamber
TEST DISTANCE: 3 m
RESOLUTION BANDWIDTH: 120 kHz in 30 MHz – 1000 MHz
1 MHz above 1000 MHz
VIDEO BANDWIDTH: > Resolution bandwidth
TEST ANTENNA TYPE: Biconilog (30 MHz – 1000 MHz)
Double ridged guide (above 1000 MHz)

Frequency, MHz	Peak, dB(µV/m)	Quasi-peak dB(µV/m)			Antenna polarization	Antenna height, m	Turntable position**, degrees	Verdict
		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*				
Mid Rx (5775 MHz)								
36.162500	34.64	29.94	40.00	-10.06	Vertical	1.0	81	Pass
62.784300	34.83	31.73	40.00	-8.27	Vertical	1.2	55	
66.288500	35.09	30.98	40.00	-9.02	Vertical	1.0	0	
79.233700	35.87	32.10	40.00	-7.90	Vertical	1.0	225	
111.612425	36.20	32.03	43.50	-11.47	Vertical	1.0	84	
143.300000	34.79	31.30	43.50	-12.20	Vertical	1.0	102	

*- Margin = Measured emission – specification limit.
**- EUT front panel refers to 0 degrees position of turntable.

Reference numbers of test equipment used

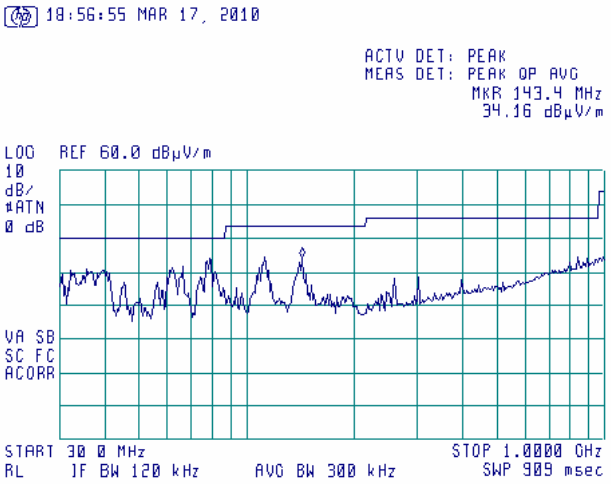
HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984	HL 2009

Full description is given in Appendix A.

Test specification:	**RSS-Gen sections 6, 4.10, spurious radiated emission**		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	**Air Pressure:** 1016 hPa	**Relative Humidity:** 51 %	**Power Supply:** 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

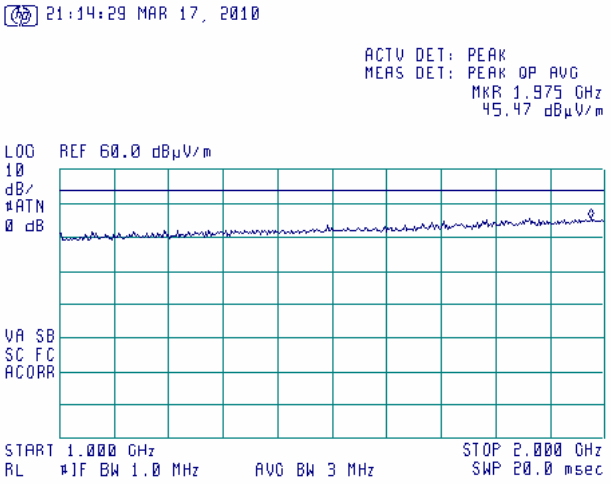
Plot 8.2.1 Radiated emission measurements from 30 MHz to 1000 MHz at the mid Rx channel frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 8.2.2 Radiated emission measurements from 1.0 to 2.0 GHz at the mid Rx channel frequency

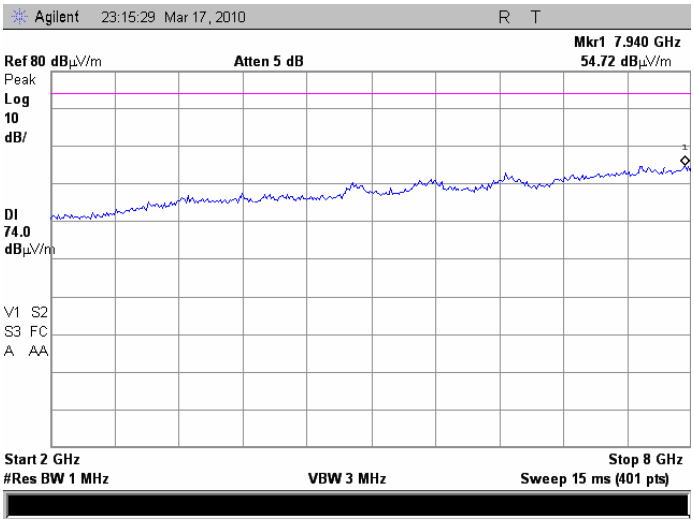
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



Test specification:	RSS-Gen sections 6, 4.10, spurious radiated emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	Air Pressure: 1016 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

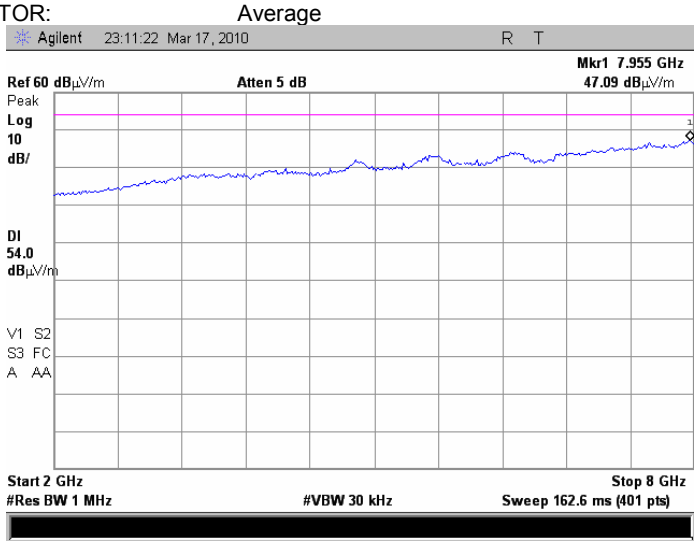
Plot 8.2.3 Radiated emission measurements from 2.0 to 8.0 GHz at the mid Rx channel frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak



Plot 8.2.4 Radiated emission measurements from 2.0 to 8.0 GHz at the mid Rx channel frequency

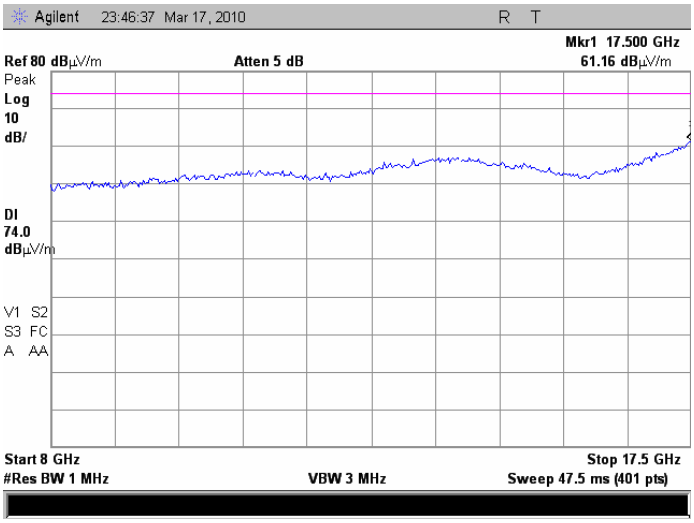
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	RSS-Gen sections 6, 4.10, spurious radiated emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	Air Pressure: 1016 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

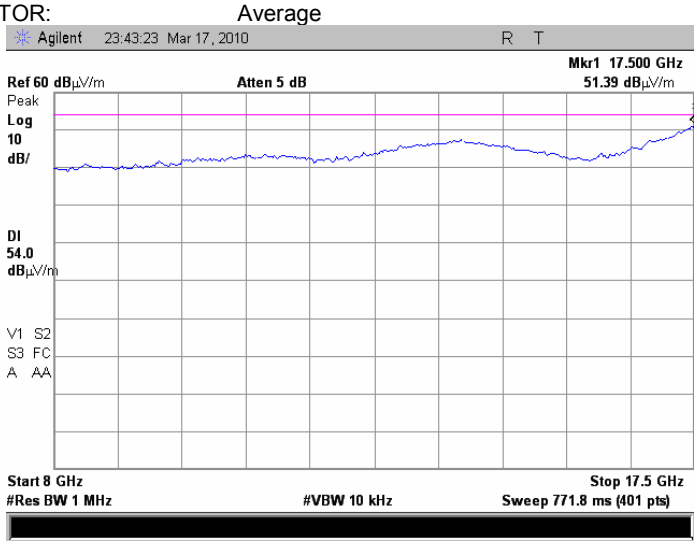
Plot 8.2.5 Radiated emission measurements from 8 to 17.5 GHz at the mid Rx channel frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak



Plot 8.2.6 Radiated emission measurements from 8 to 17.5 GHz at the mid Rx channel frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



Test specification:	**RSS-Gen sections 6, 4.10, spurious radiated emission**		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	**Verdict:**	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	**Air Pressure:** 1016 hPa	**Relative Humidity:** 51 %	**Power Supply:** 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 8.2.3 Radiated emission test results

ASSIGNED FREQUENCY:	5725 - 5825 MHz
INVESTIGATED FREQUENCY RANGE:	30 - 17500 MHz
TEST SITE	Semi Anechoic Chamber
TEST DISTANCE:	3 m
RESOLUTION BANDWIDTH:	120 kHz in 30 MHz – 1000 MHz 1 MHz above 1000 MHz
VIDEO BANDWIDTH:	> Resolution bandwidth
TEST ANTENNA TYPE:	Biconilog (30 MHz – 1000 MHz) Double ridged guide (above 1000 MHz)

Frequency, MHz	**Peak, dB(µV/m)**	**Quasi-peak dB(µV/m)**			**Antenna polarization**	**Antenna height, m**	**Turntable position**, degrees**	**Verdict**
		Measured emission, dB(µV/m)	**Limit, dB(µV/m)**	**Margin, dB***				
Mid Rx (5775 MHz)								
32.605000	32.52	29.20	40.00	-10.80	Vertical	1.0	59	Pass
60.821600	34.70	29.98	40.00	-10.02	Vertical	1.0	274	
64.795600	39.12	36.11	40.00	-3.89	Vertical	1.0	273	
69.140000	37.17	33.59	40.00	-6.41	Vertical	1.0	273	
106.726800	39.34	35.84	43.50	-7.66	Vertical	1.0	27	
110.797800	35.61	31.47	43.50	-12.03	Vertical	1.0	17	

*- Margin = Measured emission – specification limit.
**- EUT front panel refers to 0 degrees position of turntable.

Reference numbers of test equipment used

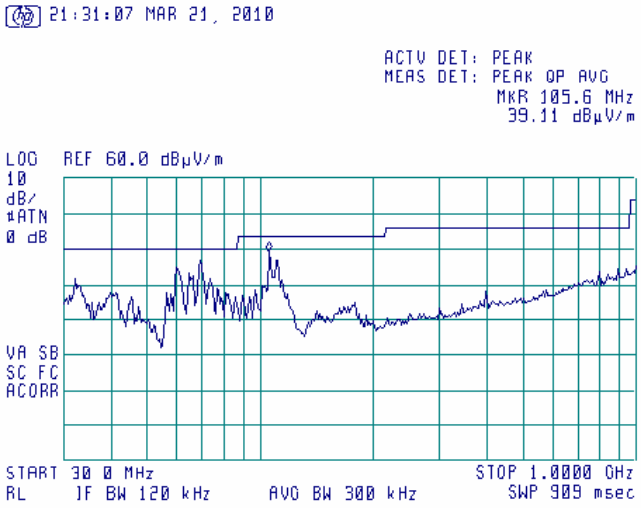
HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1984	HL 1947	HL 2009

Full description is given in Appendix A.

Test specification:	RSS-Gen sections 6, 4.10, spurious radiated emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	Air Pressure: 1016 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

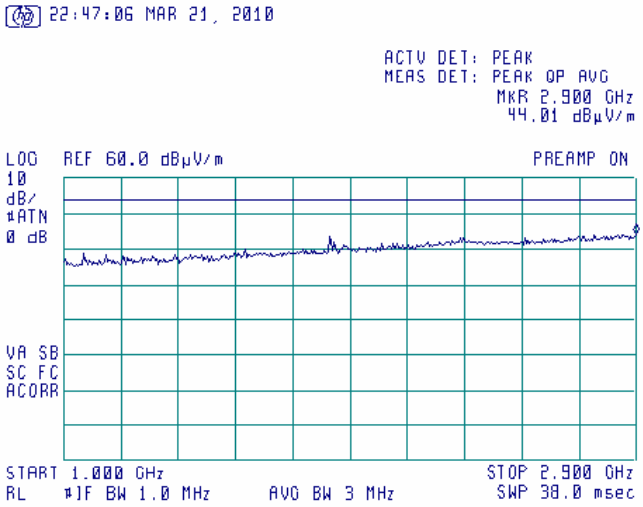
Plot 8.2.7 Radiated emission measurements from 30 MHz to 1000 MHz at the mid Rx channel frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 8.2.8 Radiated emission measurements from 1.0 to 2.9 GHz at the mid Rx channel frequency

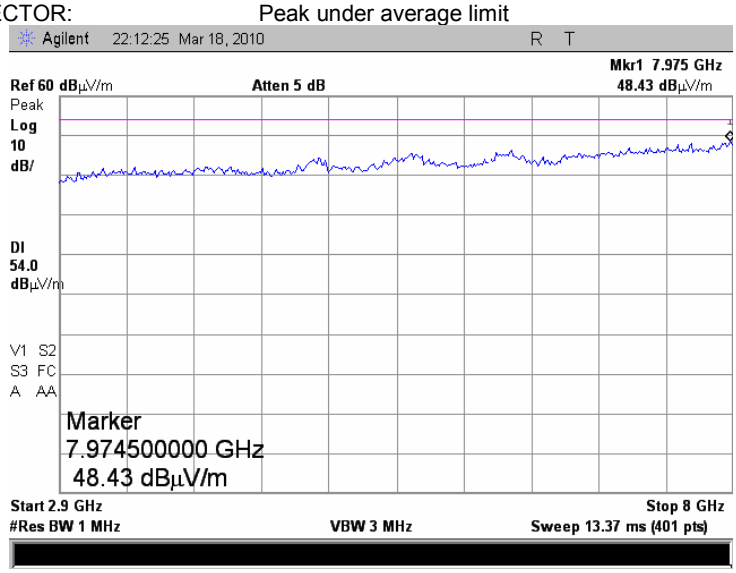
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



Test specification:	RSS-Gen sections 6, 4.10, spurious radiated emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	Air Pressure: 1016 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 8.2.9 Radiated emission measurements from 2.9 to 8.0 GHz at the mid Rx channel frequency

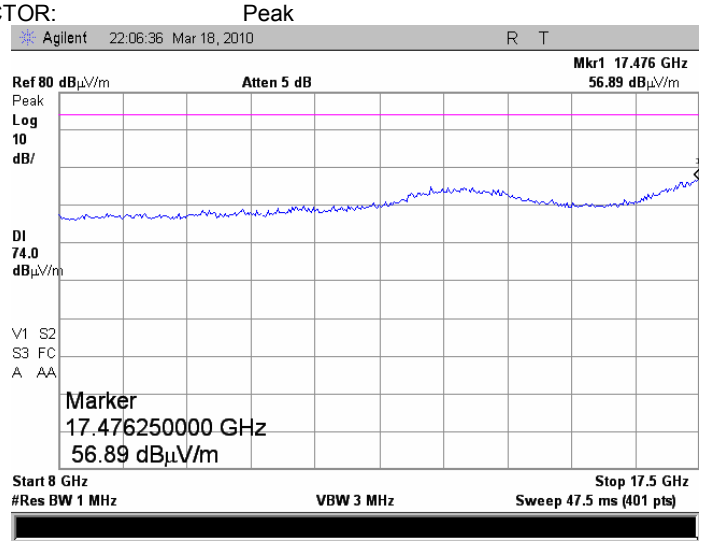
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



Test specification:	RSS-Gen sections 6, 4.10, spurious radiated emission		
Test procedure:	ANSI C63.4, Section 13.1.3		
Test mode:	Compliance	Verdict:	PASS
Date:	3/22/2010		
Temperature: 23.3ºC	Air Pressure: 1016 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

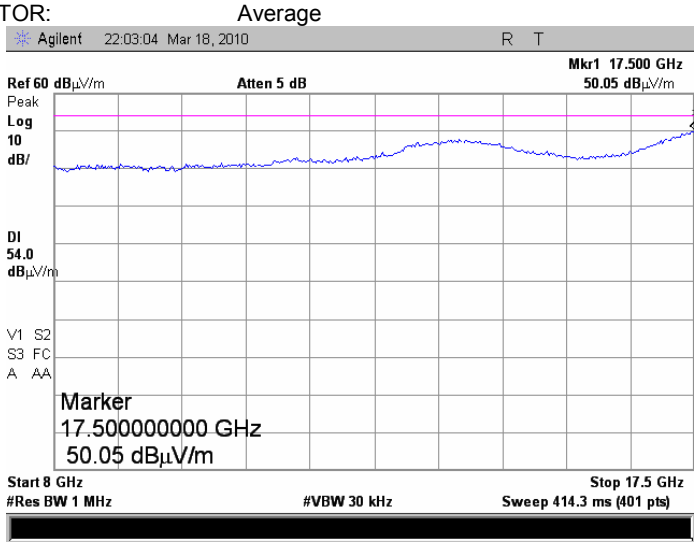
Plot 8.2.10 Radiated emission measurements from 8 to 17.5 GHz at the mid Rx channel frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak



Plot 8.2.11 Radiated emission measurements from 8 to 17.5 GHz at the mid Rx channel frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



9 APPENDIX A Test equipment and ancillaries used for tests

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.*	Due Cal.*
0446	Antenna, Loop, Active, 10 kHz - 30 MHz	EMCO	6502	2857	29-Jun-09	29-Jun-10
0447	LISN, 16/2, 300V RMS, 50 Ohm/50 uH + 5 Ohm, STD CISPR 16-1	Hermon Laboratories	LISN 16 - 1	066	05-Nov-09	05-Nov-10
0493	Temperature Chamber -45…175 deg C	Thermotron	S-1.2 Mini-Max	14016	20-May-09	20-May-10
0521	EMI Receiver (Spectrum Analyzer) with RF filter section 9 kHz-6.5 GHz	Hewlett Packard	8546A	3617A 00319, 3448A002 53	27-Aug-09	27-Aug-10
0589	Cable Coaxial, GORE A2P01POL118, 2.3 m, 6.5 GHz	Hermon Laboratories	GORE-3	176	01-Jan-10	01-Jan-11
0604	Antenna BiconiLog Log-Periodic/T Bow-TIE, 26 - 2000 MHz	EMCO	3141	9611-1011	11-Jan-10	11-Jan-11
0768	Antenna Standard Gain Horn,18-26.5 GHz, WR-42, 25 dB gain	Quinstar Technology	QWH-4200-BA	110	23-Dec-08	23-Dec-11
0769	Antenna Standard Gain Horn, 26.5-40 GHz, WR28, 25 dB gain	Quinstar Technology	QWH-2800-BA	112	23-Dec-08	23-Dec-11
0887	Attenuator Coaxial, 30 dB, 100 W, 50 Ohm	Bird	8323	1639	03-Feb-10	03-Feb-11
1194	Variac, 220 V/ 2.5 A	Matsunaga		2962	01-Jan-10	01-Jan-11
1424	Spectrum Analyzer, 30 Hz- 40 GHz	Agilent Technologies	8564EC	3946A002 19	28-Aug-09	28-Aug-10
1425	EMI Receiver, 9 kHz - 2.9 GHz, System: HL1426, HL1427	Agilent Technologies	8542E	3710A002 22, 3705A002 04	28-Aug-09	28-Aug-10
1430	EMI Receiver, 9 kHz - 2.9 GHz, System: HL1431, HL1432	Agilent Technologies	8542E	3807A002 62,3705A0 0217	31-Aug-09	31-Aug-10
1511	Cable RF, 8 m, BNC/BNC	Belden	M17/167 MIL-C-17	1511	01-Jan-10	01-Jan-11
1556	Cable RF, 0.5 m	Telequis	MIL-C-17F-RG 058 CU	1556	01-Jan-10	01-Jan-11
1947	Cable 18GHz, 6.5 m, blue	Rhophase Microwave Limited	NPS-1803A-6500-NPS	T4974	01-Jan-10	01-Jan-11
1984	Antenna, Double-Ridged Waveguide Horn, 1-18 GHz, 300 W	EMC Test Systems	3115	9911-5964	29-Jan-10	29-Jan-11
2009	Cable RF, 8 m	Alpha Wire	RG-214	C-56	01-Jan-10	01-Jan-11
2013	Power Divider, 0.5-18.0 GHz, 80 W	Omni Spectra	2090-6204-00	2013	01-Dec-08	01-Dec-10
2387	Filter Bandpass, 8-14 GHz	Hermon Laboratories	FBP8-14	2387	05-Oct-09	05-Oct-11
2870	Microwave Cable Assembly, 18 GHz, 6.4 m, SMA - SMA	Huber-Suhner	198-9155-00	2870	17-Sep-09	17-Sep-10
2871	Microwave Cable Assembly, 18 GHz, 6.4 m, SMA - SMA	Huber-Suhner	198-8155-00	2871	16-Sep-09	16-Sep-10
2909	Spectrum analyzer, ESA-E, 100 Hz to 26.5 GHz	Agilent Technologies	E4407B	MY414447 62	07-May-09	07-May-10
2952	Cable, RF, 18 GHz, 1.2 m, SMA-SMA	Gore	10020014	NA	05-Oct-09	05-Oct-10
2953	Cable, RF, 18 GHz, 1.2 m, SMA-SMA	Gore	10020014	NA	05-Oct-09	05-Oct-10
3123	Microwave Cable Assembly, 18 GHz, 6.4 m, SMA - SMA	Huber-Suhner	198-9155-00	3123	01-Jan-10	01-Jan-11

* Above mentioned equipment calibration was valid at the moment of the testing.

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.*	Due Cal.*
3179	Attenuator, N-type, 20 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N20W5+	NA	01-Jan-10	01-Jan-11
3233	Multimeter	Fluke	115C	93771523	05-Jul-09	05-Jul-10
3386	Microwave Cable Assembly, 26.5 GHz, 1.0 m, N type/N type	Suhner Sucoflex	104EA	3386	25-Feb-10	25-Feb-11
3435	Precision Fixed Attenuator, 50 Ohm, 5 W, 10 dB, DC to 18 GHz	Mini-Circuits	BW-S10W5+	NA	07-Mar-10	07-Mar-11
3437	Precision Fixed Attenuator, 50 Ohm, 5 W, 10 dB, DC to 18 GHz	Mini-Circuits	BW-S10W5+	NA	07-Mar-10	07-Mar-11
3473	Cable, Coax, Microwave, DC-18 GHz, SMA-SMA, 0.6 m	Gore	GORE 65474	1003478	10-May-09	10-May-10
3474	Cable, Coax, Microwave, DC-18 GHz, SMA-SMA, 0.6 m	Gore	GORE 65475	1640102	10-May-09	10-May-10
3535	Amplifier, low noise, 18 to 40 GHz	Quinstar Technology	QLJ-18404537-J0	11159003001	06-Dec-09	06-Dec-10
3612	Cable RF, 17.5 m, N type-N type	Teldor	RG-214/U	NA	02-Dec-09	02-Dec-10
3616	Cable RF, 6.5 m, N type-N type, DC-6.5 GHz	Suhner Switzerland	Rg 214/U	NA	02-Dec-09	02-Dec-10
3768	Attenuator, N-type, 20 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N20W5+	NA	31-Aug-09	31-Aug-10
3776	Attenuator, N-type, 10 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N10W5+	NA	31-Aug-09	31-Aug-10
3787	Precision Fixed Attenuator, 50 Ohm, 5 W, 10 dB, DC to 18 GHz	Mini-Circuits	BW-S10W5+	NA	07-Dec-09	07-Dec-10
3818	PSA Series Spectrum Analyzer, 3 Hz- 44 GHz	Agilent Technologies	E4446A	MY48250288	25-Sep-09	25-Sep-10
3883	Preamplifier, 0.1 to 18 GHz, Gain 25 dB, N-type(f) in, N-type(m) out.	Agilent Technologies	87405C	MY47010406	13-Jan-10	13-Jan-11
3901	Microwave Cable Assembly, 40.0 GHz, 3.5 m, SMA/SMA	Huber-Suhner	SUCOFLEX 102A	1225/2A	07-Feb-10	07-Feb-11

* Above mentioned equipment calibration was valid at the moment of the testing.

10 APPENDIX B Measurement uncertainties

Expanded uncertainty at 95% confidence in Hermon Labs EMC measurements

Test description	Expanded uncertainty
Conducted carrier power at RF antenna connector	Below 12.4 GHz: ± 1.7 dB 12.4 GHz to 40 GHz: ± 2.3 dB
Conducted emissions at RF antenna connector	9 kHz to 2.9 GHz: ± 2.6 dB 2.9 GHz to 6.46 GHz: ± 3.5 dB 6.46 GHz to 13.2 GHz: ± 4.3 dB 13.2 GHz to 22.0 GHz: ± 5.0 dB 22.0 GHz to 26.8 GHz: ± 5.5 dB 26.8 GHz to 40.0 GHz: ± 4.8 dB
Occupied bandwidth	± 8.0 %
Conducted emissions with LISN	9 kHz to 150 kHz: ± 3.9 dB 150 kHz to 30 MHz: ± 3.8 dB
Radiated emissions at 3 m measuring distance Horizontal polarization Vertical polarization	 Biconilog antenna: ± 5.3 dB Biconical antenna: ± 5.0 dB Log periodic antenna: ± 5.3 dB Double ridged horn antenna: ± 5.3 dB Biconilog antenna: ± 6.0 dB Biconical antenna: ± 5.7 dB Log periodic antenna: ± 6.0 dB Double ridged horn antenna: ± 6.0 dB

Hermon Laboratories is accredited by A2LA for calibration according to present requirements of ISO/IEC 17025 and NCSL Z540-1. The accreditation is granted to perform calibration of parameters that are listed in the Scope of Hermon Laboratories Accreditation.

Hermon Laboratories calibrates its reference and transfer standards by calibration laboratories accredited to ISO/IEC 17025 by a mutually recognized Accreditation Body or by a recognized national metrology institute. All reference and transfer standards used in the calibration system are traceable to national or international standards.

In-house calibration of all test and measurement equipment is performed on a regular basis according to Hermon Laboratories calibration procedures, manufacturer calibration/verification procedures or procedures defined in the relevant standards. The Hermon Laboratories test and measurement equipment is calibrated within the tolerances specified by the manufacturers and/or by the relevant standards.

11 APPENDIX C Test laboratory description

Tests were performed at Hermon Laboratories Ltd., which is a fully independent, private, EMC, safety, environmental and telecommunication testing facility.
Hermon Laboratories is listed by the Federal Communications Commission (USA) for all parts of Code of Federal Regulations 47 (CFR 47), Registration Numbers 90624 for OATS and 90623 for the anechoic chamber; by Industry Canada for electromagnetic emissions (file numbers IC 2186A-1 for OATS, IC 2186A-2 for anechoic chamber, IC 2186A-3 for full-anechoic chamber for RE measurements above 1 GHz), certified by VCCI, Japan (the registration numbers are R-808 for OATS, R-1082 for anechoic chamber, G-27 for full-anechoic chamber for RE measurements above 1 GHz, C-845 for conducted emissions site, T-1606 for conducted emissions at telecommunication ports), has a status of a Telefication - Listed Testing Laboratory, Certificate No. L138/00. The laboratory is accredited by American Association for Laboratory Accreditation (USA) according to ISO/IEC 17025 for electromagnetic compatibility, product safety, telecommunications testing and environmental simulation (for exact scope please refer to Certificate No. 839.01). The FCC Designation Number is US1003.

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Person for contact: Mr. Alex Usoskin, CEO.

12 APPENDIX D Specification references

47CFR part 15: 2009	Radio Frequency Devices.
FCC Public Notice DA 02-2138 August 30, 2002	Measurement procedure updated for peak transmit power in U-NII bands
ANSI C63.2: 1996	American National Standard for Instrumentation-Electromagnetic Noise and Field Strength, 10 kHz to 40 GHz-Specifications.
ANSI C63.4:2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
RSS-210 Issue 8: 2010	Low Power Licence- Exempt Radiocommunication Devices
RSS-Gen Issue 3: 2010	General Requirements and Information for the certification of Radiocommunication Equipment

13 APPENDIX E Test equipment correction factors

Correction factor
Line impedance stabilization network
Model LISN 16 - 1
Hermon Laboratories, HL 0447

Frequency, kHz	Correction factor, dB
10	4.9
15	2.86
20	1.83
25	1.25
30	0.91
35	0.69
40	0.53
50	0.35
60	0.25
70	0.18
80	0.14
90	0.11
100	0.09
125	0.06
150	0.04

The correction factor in dB is to be added to meter readings of an interference analyzer or a spectrum analyzer.

Antenna Factor
Active Loop Antenna
EMC Test Systems, model 6502, serial number 2857, HL 0446

Frequency, MHz	Magnetic Antenna Factor, dB(S/m)	Electric Antenna Factor, dB(1/m)
0.009	-32.8	18.7
0.010	-33.8	17.7
0.020	-38.3	13.2
0.050	-41.1	10.4
0.075	-41.3	10.2
0.100	-41.6	9.9
0.150	-41.7	9.8
0.250	-41.6	9.9
0.500	-41.8	9.7
0.750	-41.9	9.6
1.000	-41.4	10.1
2.000	-41.5	10.0
3.000	-41.4	10.1
4.000	-41.4	10.1
5.000	-41.5	10.0
10.000	-41.9	9.6
15.000	-41.9	9.6
20.000	-42.2	9.3
25.000	-42.8	8.7
30.000	-44.0	7.5

Antenna factor in dB(S/m) is to be added to receiver meter reading in dB(μV) to convert it into field intensity in dB(μA/m).

Antenna factor
Standard gain horn antenna
Quinstar Technology
Model QWH
Ser.No.110/112, HL 0768, 0769

Frequency min, GHz	Frequency max, GHz	Antenna factor, dB(1/m)
18.000	26.500	32.01
26.500	40.000	35.48
40.000	60.000	39.03
60.000	90.000	42.55
90.000	140.000	46.23
140.000	220.000	50.11

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μV) to convert it into field intensity in dB(μV/m).

Antenna factor

Biconilog antenna EMCO, model 3141, serial number 1011, HL 0604

Frequency, MHz	Antenna factor, dB(1/m)	Frequency, MHz	Antenna factor, dB(1/m)	Frequency, MHz	Antenna factor, dB(1/m)
26	7.8	560	19.8	1300	27.0
28	7.8	580	20.6	1320	27.8
30	7.8	600	21.3	1340	28.3
40	7.2	620	21.5	1360	28.2
60	7.1	640	21.2	1380	27.9
70	8.5	660	21.4	1400	27.9
80	9.4	680	21.9	1420	27.9
90	9.8	700	22.2	1440	27.8
100	9.7	720	22.2	1460	27.8
110	9.3	740	22.1	1480	28.0
120	8.8	760	22.3	1500	28.5
130	8.7	780	22.6	1520	28.9
140	9.2	800	22.7	1540	29.6
150	9.8	820	22.9	1560	29.8
160	10.2	840	23.1	1580	29.6
170	10.4	860	23.4	1600	29.5
180	10.4	880	23.8	1620	29.3
190	10.3	900	24.1	1640	29.2
200	10.6	920	24.1	1660	29.4
220	11.6	940	24.0	1680	29.6
240	12.4	960	24.1	1700	29.8
260	12.8	980	24.5	1720	30.3
280	13.7	1000	24.9	1740	30.8
300	14.7	1020	25.0	1760	31.1
320	15.2	1040	25.2	1780	31.0
340	15.4	1060	25.4	1800	30.9
360	16.1	1080	25.6	1820	30.7
380	16.4	1100	25.7	1840	30.6
400	16.6	1120	26.0	1860	30.6
420	16.7	1140	26.4	1880	30.6
440	17.0	1160	27.0	1900	30.6
460	17.7	1180	27.0	1920	30.7
480	18.1	1200	26.7	1940	30.9
500	18.5	1220	26.5	1960	31.2
520	19.1	1240	26.5	1980	31.6
540	19.5	1260	26.5	2000	32.0
		1280	26.6		

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μV) to convert it into field intensity in dB(μV/m).

Antenna factor
Double-ridged wave guide horn antenna
EMC Test Systems, model 3115, serial no: 9911-5964, HL 1984

Frequency, MHz	Antenna gain, dBi	Antenna factor. dB(1/m)
1000.0	5.8	24.5
1500.0	9.0	24.8
2000.0	8.6	27.7
2500.0	9.5	28.7
3000.0	8.9	30.8
3500.0	8.2	32.9
4000.0	9.6	32.7
4500.0	11.2	32.1
5000.0	10.6	33.6
5500.0	9.8	35.3
6000.0	10.1	35.7
6500.0	10.7	35.8
7000.0	10.9	36.2
7500.0	10.5	37.2
8000.0	11.1	37.2
8500.0	10.8	38.1
9000.0	10.7	38.6
9500.0	11.5	38.3
10000.0	11.8	38.4
10500.0	12.3	38.3
11000.0	12.3	38.8
11500.0	11.5	39.9
12000.0	12.2	39.6
12500.0	12.6	39.5
13000.0	12.0	40.5
13500.0	11.7	41.1
14000.0	11.7	41.5
14500.0	12.7	40.8
15000.0	14.2	39.5
15500.0	16.0	38.1
16000.0	16.2	38.1
16500.0	14.5	40.1
17000.0	12.2	42.6
17500.0	9.7	45.4
18000.0	6.6	48.7

Antenna factor is to be added to receiver meter reading in dB(μV) to convert it into field intensity in dB(μV/m).

Cable loss
Cable Coaxial, GORE A2P01POL118, 2.3 m, model:GORE-3, HL 0589
+ Cable Coaxial, ANDREW PSWJ4, 6m, model: ANDREW-6, HL 1004

No.	Frequency, MHz	Cable loss, dB	Tolerance (Specification), dB	Measurement uncertainty, dB
1	30	0.33	≤ 6.5	±0.12
2	50	0.40		
3	100	0.57		
4	300	0.97		
5	500	1.25		
6	800	1.59		
7	1000	1.81		
8	1200	1.97		
9	1400	2.15		
10	1600	2.28		
11	1800	2.43		
12	2000	2.61		
13	2200	2.75		
14	2400	2.89		
15	2600	2.97		
16	2800	3.21	≤ 6.5	±0.12
17	3000	3.32		
18	3300	3.47		
19	3600	3.62		
20	3900	3.84		
21	4200	3.92		±0.17
22	4500	4.07		
23	4800	4.36		
24	5100	4.62		
25	5400	4.78		
26	5700	5.16		
27	6000	5.67		
28	6500	5.99		

Cable loss
Cable 18 GHz, 6.5 m, blue, model: NPS-1803A-6500-NPS, S/N T4974, HL 1947

Frequency, GHz	Cable loss, dB
0.03	0.30
0.05	0.38
0.10	0.53
0.20	0.74
0.30	0.91
0.40	1.05
0.50	1.18
0.60	1.29
0.70	1.40
0.80	1.50
0.90	1.59
1.00	1.68
1.10	1.77
1.20	1.86
1.30	1.94
1.40	2.01
1.50	2.08
1.60	2.16
1.70	2.22
1.80	2.29
1.90	2.36
2.00	2.42
2.10	2.48
2.20	2.54
2.30	2.60
2.40	2.66
2.50	2.71
2.60	2.77
2.70	2.83
2.80	2.89
2.90	2.95
3.10	3.06
3.30	3.17
3.50	3.28
3.70	3.39
3.90	3.51
4.10	3.62
4.30	3.76
4.50	3.87
4.70	4.01
4.90	4.10
5.10	4.21
5.30	4.31
5.50	4.43
5.70	4.56
5.90	4.71

Frequency, GHz	Cable loss, dB
6.10	4.87
6.30	4.95
6.50	4.94
6.70	4.88
6.90	4.87
7.10	4.83
7.30	4.85
7.50	4.86
7.70	4.91
7.90	4.96
8.10	5.03
8.30	5.08
8.50	5.13
8.70	5.21
8.90	5.22
9.10	5.34
9.30	5.35
9.50	5.52
9.70	5.51
9.90	5.66
10.10	5.70
10.30	5.78
10.50	5.79
10.70	5.82
10.90	5.86
11.10	5.94
11.30	6.06
11.50	6.21
11.70	6.44
11.90	6.61
12.10	6.76
12.40	6.68
13.00	6.66
13.50	6.81
14.00	6.90
14.50	6.90
15.00	6.97
15.50	7.17
16.00	7.28
16.50	7.27
17.00	7.38
17.50	7.68
18.00	7.92

Cable loss
RF cable 8 m, model RG-214, HL 2009

No.	Frequency, MHz	Cable loss, dB	Tolerance (Specification), dB	Measurement uncertainty, dB
1	1	0.10	NA	±0.12
2	10	0.14		
3	30	0.25		
4	50	0.34		
5	100	0.53		
6	300	0.99		
7	500	1.31		
8	800	1.73		
9	1000	1.98		
10	1100	2.11		
11	1200	2.21		
12	1300	2.35		
13	1400	2.46		
14	1500	2.55		
15	1600	2.68		
16	1700	2.78		
17	1800	2.88		
18	1900	2.98		
19	2000	3.09		

Cable loss
Cable coaxial, Huber-Suhner, 18 GHz, 6.4 m, SMA - SMA, model 198-9155-00, HL 2870

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.09	5750	2.49	12000	3.71
30	0.17	6000	2.53	12250	3.81
100	0.32	6250	2.58	12500	3.84
250	0.49	6500	2.64	12750	3.88
500	0.70	6750	2.69	13000	3.92
750	0.86	7000	2.75	13250	3.96
1000	1.00	7250	2.80	13500	3.98
1250	1.11	7500	2.87	13750	4.01
1500	1.23	7750	2.93	14000	4.03
1750	1.34	8000	2.94	14250	4.09
2000	1.41	8250	3.00	14500	4.08
2250	1.51	8500	3.04	14750	4.10
2500	1.59	8750	3.08	15000	4.15
2750	1.68	9000	3.14	15250	4.22
3000	1.76	9250	3.16	15500	4.31
3250	1.83	9500	3.22	15750	4.42
3500	1.91	9750	3.26	16000	4.48
3750	1.97	10000	3.36	16250	4.54
4000	2.05	10250	3.41	16500	4.56
4250	2.11	10500	3.46	16750	4.57
4500	2.18	10750	3.50	17000	4.59
4750	2.24	11000	3.54	17250	4.66
5000	2.30	11250	3.58	17500	4.70
5250	2.36	11500	3.63	17750	4.76
5500	2.43	11750	3.66	18000	4.72

Cable loss
Cable coaxial, Huber-Suhner, 18 GHz, 6.4 m, SMA - SMA, model 198-8155-00, HL 2871

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.12	5750	2.34	12000	3.55
30	0.14	6000	2.39	12250	3.61
100	0.27	6250	2.46	12500	3.67
250	0.45	6500	2.52	12750	3.74
500	0.63	6750	2.58	13000	3.79
750	0.76	7000	2.64	13250	3.82
1000	0.89	7250	2.68	13500	3.83
1250	1.01	7500	2.73	13750	3.83
1500	1.12	7750	2.78	14000	3.88
1750	1.23	8000	2.83	14250	3.93
2000	1.32	8250	2.88	14500	3.96
2250	1.41	8500	2.94	14750	4.01
2500	1.49	8750	2.97	15000	4.00
2750	1.58	9000	3.02	15250	4.01
3000	1.66	9250	3.07	15500	4.00
3250	1.73	9500	3.13	15750	4.13
3500	1.80	9750	3.18	16000	4.22
3750	1.87	10000	3.21	16250	4.29
4000	1.93	10250	3.26	16500	4.29
4250	2.01	10500	3.30	16750	4.32
4500	2.06	10750	3.36	17000	4.37
4750	2.12	11000	3.39	17250	4.45
5000	2.17	11250	3.44	17500	4.49
5250	2.24	11500	3.48	17750	4.53
5500	2.29	11750	3.52	18000	4.55

Cable loss
Cable coaxial, Gore, 18 GHz, 1.2 m, SMA-SMA, S/N 10020014
HL 2952

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.03	5750	0.97	12000	1.50
30	0.05	6000	1.01	12250	1.45
100	0.11	6250	1.03	12500	1.48
250	0.19	6500	1.06	12750	1.57
500	0.26	6750	1.08	13000	1.51
750	0.32	7000	1.10	13250	1.64
1000	0.38	7250	1.13	13500	1.60
1250	0.43	7500	1.13	13750	1.63
1500	0.47	7750	1.21	14000	1.59
1750	0.53	8000	1.20	14250	1.66
2000	0.55	8250	1.24	14500	1.60
2250	0.59	8500	1.29	14750	1.65
2500	0.63	8750	1.23	15000	1.72
2750	0.66	9000	1.27	15250	1.68
3000	0.69	9250	1.27	15500	1.73
3250	0.72	9500	1.29	15750	1.70
3500	0.75	9750	1.30	16000	1.82
3750	0.78	10000	1.38	16250	1.79
4000	0.82	10250	1.44	16500	1.81
4250	0.84	10500	1.47	16750	1.91
4500	0.86	10750	1.45	17000	1.92
4750	0.90	11000	1.50	17250	1.98
5000	0.91	11250	1.46	17500	2.05
5250	0.94	11500	1.47	17750	2.04
5500	0.96	11750	1.44	18000	2.05

Cable loss
Cable coaxial, Gore, 25.5 GHz, 1.2 m, SMA-SMA, S/N 10020014
HL 2953

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.06	8750	1.28	18000	1.84
30	0.06	9000	1.30	18250	1.91
100	0.12	9250	1.35	18500	1.94
250	0.19	9500	1.34	18750	1.92
500	0.27	9750	1.36	19000	1.95
750	0.34	10000	1.33	19250	2.00
1000	0.40	10250	1.38	19500	1.96
1250	0.45	10500	1.39	19750	2.02
1500	0.50	10750	1.39	20000	1.92
1750	0.54	11000	1.43	20250	2.04
2000	0.57	11250	1.42	20500	2.00
2250	0.60	11500	1.48	20750	2.09
2500	0.64	11750	1.49	21000	2.01
2750	0.67	12000	1.59	21250	2.07
3000	0.70	12250	1.50	21500	2.20
3250	0.74	12500	1.55	21750	2.10
3500	0.76	12750	1.55	22000	2.24
3750	0.80	13000	1.61	22250	2.25
4000	0.83	13250	1.62	22500	2.12
4250	0.85	13500	1.56	22750	2.05
4500	0.87	13750	1.61	23000	2.10
4750	0.91	14000	1.57	23250	2.03
5000	0.92	14250	1.66	23500	2.08
5250	0.96	14500	1.58	23750	2.14
5500	0.99	14750	1.69	24000	2.16
5750	0.99	15000	1.71	24250	2.25
6000	1.03	15250	1.74	24500	2.17
6250	1.05	15500	1.75	24750	2.32
6500	1.07	15750	1.72	25000	2.32
6750	1.08	16000	1.89	25250	2.32
7000	1.12	16250	1.79	25500	2.41
7250	1.13	16500	1.84	25750	2.31
7500	1.15	16750	1.82	26000	2.28
7750	1.20	17000	1.79	26250	2.32
8000	1.20	17250	1.78	26500	2.29
8250	1.23	17500	1.85		
8500	1.27	17750	1.83		

Cable loss
Microwave Cable Assembly, 18 GHz, 6.4 m, SMA – SMA, Huber-Suhner, model 198-9155-00
HL 3123

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.11	3600	1.97	7400	3.12	11200	3.90	15100	4.74
30	0.17	3700	1.97	7500	3.13	11300	3.93	15200	4.70
50	0.25	3800	2.03	7600	3.16	11400	3.88	15300	4.73
100	0.32	3900	2.04	7700	3.18	11500	3.87	15400	4.78
200	0.46	4000	2.10	7800	3.20	11600	3.90	15500	4.75
300	0.58	4100	1.97	7900	3.23	11700	3.86	15600	4.76
400	0.65	4200	1.97	8000	3.25	11800	3.88	15700	4.75
500	0.74	4300	2.03	8100	3.26	11900	3.86	15800	4.78
600	0.82	4400	2.04	8200	3.28	12000	3.89	15900	4.79
700	0.89	4500	2.10	8300	3.31	12100	3.94	16000	4.73
800	0.95	4600	1.97	8400	3.31	12200	3.92	16100	4.78
900	1.01	4700	1.97	8500	3.32	12300	3.96	16200	4.84
1000	1.07	4800	2.03	8600	3.34	12400	4.01	16300	4.90
1100	1.11	4900	2.04	8700	3.35	12500	4.07	16400	4.87
1200	1.17	5000	2.10	8800	3.37	12600	4.08	16500	4.90
1300	1.22	5100	2.53	8900	3.39	12700	4.17	16600	4.98
1400	1.27	5200	2.55	9000	3.42	12800	4.26	16700	5.05
1500	1.29	5300	2.60	9100	3.43	12900	4.16	16800	5.04
1600	1.35	5400	2.61	9200	3.51	13000	4.21	16900	5.02
1700	1.40	5500	2.64	9300	3.52	13100	4.24	17000	5.09
1800	1.44	5600	2.70	9400	3.54	13200	4.27	17100	5.07
1900	1.51	5700	2.67	9500	3.63	13300	4.31	17200	5.10
2000	1.49	5800	2.71	9600	3.61	13400	4.33	17300	5.13
2100	1.55	5900	2.74	9700	3.71	13500	4.25	17400	5.23
2200	1.58	6000	2.80	9800	3.66	13600	4.27	17500	5.21
2300	1.62	6100	2.79	9900	3.77	13700	4.33	17600	5.22
2400	1.72	6200	2.81	10000	3.75	13800	4.33	17700	5.36
2500	1.76	6300	2.83	10100	3.77	13900	4.31	17800	5.35
2600	1.78	6400	2.86	10200	3.80	14000	4.30	17900	5.45
2700	1.80	6500	2.88	10300	3.79	14100	4.30	18000	5.43
2800	1.86	6600	2.90	10400	3.87	14200	4.31		
2900	1.90	6700	2.92	10500	3.83	14300	4.37		
3000	1.90	6800	2.98	10600	3.88	14400	4.35		
3100	1.97	6900	2.98	10700	3.86	14600	4.53		
3200	1.97	7000	3.00	10800	3.87	14700	4.50		
3300	2.03	7100	3.02	10900	3.90	14800	4.62		
3400	2.04	7200	3.04	11000	3.84	14900	4.65		
3500	2.10	7300	3.06	11100	3.88	15000	4.79		

Cable loss
Cable coaxial, Microwave Cable Assembly, 104EA, 18 GHz, 1.0 m
Suhner Sucoflex, HL 3386

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.05	5750	1.01	12000	1.29
30	0.07	6000	1.02	12250	1.33
100	0.12	6250	1.02	12500	1.36
250	0.18	6500	0.95	12750	1.35
500	0.26	6750	0.96	13000	1.36
750	0.32	7000	1.01	13250	1.39
1000	0.35	7250	1.04	13500	1.37
1250	0.41	7500	1.09	13750	1.43
1500	0.45	7750	1.12	14000	1.46
1750	0.50	8000	1.13	14250	1.39
2000	0.54	8250	1.15	14500	1.36
2250	0.57	8500	1.15	14750	1.47
2500	0.61	8750	1.15	15000	1.47
2750	0.64	9000	1.16	15250	1.41
3000	0.67	9250	1.14	15500	1.52
3250	0.70	9500	1.14	15750	1.54
3500	0.71	9750	1.19	16000	1.49
3750	0.74	10000	1.20	16250	1.48
4000	0.77	10250	1.22	16500	1.52
4250	0.80	10500	1.23	16750	1.56
4500	0.84	10750	1.22	17000	1.57
4750	0.85	11000	1.21	17250	1.53
5000	0.84	11250	1.24	17500	1.55
5250	0.85	11500	1.26	17750	1.55
5500	0.92	11750	1.28	18000	1.54

Cable loss
Cable coaxial, Microwave, SMA-SMA, 18 GHz, 0.6 m
Gore, HL 3473

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.01	5000	0.48	10200	0.72	15500	0.85
30	0.03	5100	0.48	10300	0.70	15600	0.93
50	0.04	5200	0.48	10400	0.75	15700	0.87
100	0.04	5300	0.48	10500	0.68	15800	0.88
200	0.08	5400	0.50	10600	0.77	15900	0.94
300	0.11	5500	0.48	10700	0.80	16000	0.94
400	0.12	5600	0.50	10800	0.77	16100	0.99
500	0.13	5700	0.50	10900	0.85	16200	0.96
600	0.15	5800	0.52	11000	0.83	16300	0.96
700	0.15	5900	0.51	11100	0.79	16400	0.94
800	0.17	6000	0.52	11200	0.82	16500	0.94
900	0.19	6100	0.54	11300	0.79	16600	1.03
1000	0.18	6200	0.53	11400	0.81	16700	1.04
1100	0.20	6300	0.54	11500	0.76	16800	1.07
1200	0.22	6400	0.55	11600	0.78	16900	0.94
1300	0.22	6500	0.56	11700	0.74	17000	1.05
1400	0.23	6600	0.56	11800	0.76	17100	0.96
1500	0.24	6700	0.60	11900	0.79	17200	1.07
1600	0.25	6800	0.55	12000	0.74	17300	0.98
1700	0.25	6900	0.60	12100	0.69	17400	1.16
1800	0.26	7000	0.59	12200	0.69	17500	1.05
1900	0.27	7100	0.60	12300	0.75	17600	1.13
2000	0.29	7200	0.61	12400	0.66	17700	1.05
2100	0.28	7300	0.60	12500	0.76	17800	1.22
2200	0.30	7400	0.57	12600	0.70	17900	1.02
2300	0.30	7500	0.63	12700	0.77	18000	1.04
2400	0.31	7600	0.60	12800	0.69		
2500	0.31	7700	0.63	12900	0.79		
2600	0.33	7800	0.66	13000	0.81		
2700	0.33	7900	0.61	13100	0.83		
2800	0.35	8000	0.58	13200	0.80		
2900	0.35	8100	0.62	13300	0.82		
3000	0.35	8200	0.62	13400	0.90		
3100	0.35	8300	0.63	13500	0.85		
3200	0.36	8400	0.67	13600	1.04		
3300	0.38	8500	0.63	13700	0.93		
3400	0.38	8600	0.61	13800	0.91		
3500	0.40	8700	0.64	13900	0.89		
3600	0.40	8800	0.62	14000	0.96		
3700	0.40	8900	0.64	14100	0.88		
3800	0.41	9000	0.64	14200	1.01		
3900	0.41	9100	0.64	14300	0.99		
4000	0.41	9200	0.63	14400	0.83		
4100	0.45	9300	0.63	14600	0.88		
4200	0.43	9400	0.63	14700	0.91		
4300	0.46	9500	0.64	14800	0.91		
4400	0.44	9600	0.65	14900	0.88		
4500	0.47	9700	0.62	15000	0.89		
4600	0.46	9800	0.66	15100	0.91		
4700	0.47	9900	0.61	15200	0.88		
4800	0.47	10000	0.70	15300	0.94		
4900	0.48	10100	0.70	15400	0.91		

Cable loss
Cable coaxial, Microwave, SMA-SMA, 18 GHz, 0.6 m
Gore, HL 3474

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.00	5000	0.44	10200	0.72	15500	0.84
30	0.02	5100	0.44	10300	0.68	15600	0.95
50	0.03	5200	0.44	10400	0.75	15700	0.82
100	0.03	5300	0.44	10500	0.64	15800	0.94
200	0.07	5400	0.46	10600	0.75	15900	0.91
300	0.10	5500	0.45	10700	0.80	16000	0.91
400	0.11	5600	0.46	10800	0.77	16100	0.86
500	0.12	5700	0.47	10900	0.80	16200	0.86
600	0.14	5800	0.48	11000	0.79	16300	0.86
700	0.14	5900	0.48	11100	0.70	16400	0.84
800	0.15	6000	0.49	11200	0.76	16500	0.83
900	0.18	6100	0.51	11300	0.70	16600	0.87
1000	0.17	6200	0.50	11400	0.73	16700	0.90
1100	0.18	6300	0.50	11500	0.67	16800	0.91
1200	0.21	6400	0.51	11600	0.74	16900	0.90
1300	0.20	6500	0.51	11700	0.64	17000	0.97
1400	0.21	6600	0.52	11800	0.68	17100	0.94
1500	0.22	6700	0.54	11900	0.67	17200	1.01
1600	0.23	6800	0.51	12000	0.71	17300	0.97
1700	0.23	6900	0.55	12100	0.64	17400	1.02
1800	0.24	7000	0.54	12200	0.64	17500	1.06
1900	0.25	7100	0.55	12300	0.71	17600	1.01
2000	0.27	7200	0.55	12400	0.62	17700	1.10
2100	0.26	7300	0.54	12500	0.80	17800	1.16
2200	0.28	7400	0.52	12600	0.69	17900	1.12
2300	0.28	7500	0.58	12700	0.85	18000	1.00
2400	0.28	7600	0.56	12800	0.67		
2500	0.29	7700	0.57	12900	0.84		
2600	0.30	7800	0.62	13000	0.76		
2700	0.31	7900	0.57	13100	0.85		
2800	0.32	8000	0.55	13200	0.77		
2900	0.32	8100	0.59	13300	0.82		
3000	0.32	8200	0.59	13400	0.79		
3100	0.33	8300	0.60	13500	0.82		
3200	0.33	8400	0.66	13600	0.91		
3300	0.35	8500	0.60	13700	0.81		
3400	0.35	8600	0.59	13800	0.76		
3500	0.36	8700	0.59	13900	0.75		
3600	0.36	8800	0.58	14000	0.81		
3700	0.37	8900	0.60	14100	0.77		
3800	0.38	9000	0.60	14200	0.89		
3900	0.38	9100	0.60	14300	0.92		
4000	0.38	9200	0.57	14400	0.78		
4100	0.41	9300	0.57	14600	0.85		
4200	0.40	9400	0.58	14700	0.83		
4300	0.41	9500	0.60	14800	0.95		
4400	0.42	9600	0.62	14900	0.89		
4500	0.43	9700	0.58	15000	0.96		
4600	0.42	9800	0.63	15100	0.90		
4700	0.44	9900	0.58	15200	0.96		
4800	0.43	10000	0.67	15300	0.90		
4900	0.44	10100	0.69	15400	0.95		

Cable loss
Cable coaxial, RG-214/U, N type-N type, 17 m
Teldor, HL 3612

Frequency, GHz	Cable loss, dB
0.1	0.05
0.5	0.07
1	0.10
3	0.22
5	0.29
10	0.39
30	0.68
50	0.90
100	1.27
150	1.58
200	1.80
250	2.12
300	2.36
350	2.60
400	2.82
450	2.99
500	3.23
550	3.40
600	3.56
650	3.71
700	3.90
750	4.04
800	4.23
850	4.39
900	4.55
950	4.65
1000	4.79

Cable loss
Cable coaxial, RG-214/U, N type-N type, 6.5 m
Suhner Switzerland, HL 3616

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.13	1750	2.66	3550	4.44	5350	6.08
30	0.25	1800	2.72	3600	4.46	5400	6.12
50	0.32	1850	2.78	3650	4.59	5450	6.17
100	0.48	1900	2.81	3700	4.60	5500	6.25
150	0.60	1950	2.86	3750	4.72	5550	6.31
200	0.71	2000	2.94	3800	4.72	5600	6.35
250	0.81	2050	2.97	3850	4.86	5650	6.41
300	0.91	2100	3.01	3900	4.85	5700	6.50
350	1.00	2150	3.06	3950	4.99	5750	6.52
400	1.07	2200	3.11	4000	4.90	5800	6.57
450	1.14	2250	3.16	4050	5.04	5850	6.61
500	1.23	2300	3.21	4100	5.01	5900	6.71
550	1.30	2350	3.26	4150	5.10	5950	6.70
600	1.37	2400	3.31	4200	5.08	6000	6.75
650	1.44	2450	3.35	4250	5.18	6050	6.74
700	1.50	2500	3.39	4300	5.14	6100	6.84
750	1.58	2550	3.46	4350	5.22	6150	6.87
800	1.64	2600	3.48	4400	5.21	6200	6.93
850	1.69	2650	3.55	4450	5.29	6250	6.96
900	1.77	2700	3.59	4500	5.31	6300	7.02
950	1.79	2750	3.66	4550	5.39	6350	7.04
1000	1.87	2800	3.68	4600	5.41	6400	7.10
1050	1.92	2850	3.75	4650	5.49	6450	7.11
1100	1.98	2900	3.79	4700	5.52	6500	7.19
1150	2.05	2950	3.86	4750	5.60		
1200	2.09	3000	3.89	4800	5.64		
1250	2.15	3050	3.94	4850	5.73		
1300	2.21	3100	3.98	4900	5.70		
1350	2.27	3150	4.03	4950	5.73		
1400	2.33	3200	4.06	5000	5.75		
1450	2.38	3250	4.12	5050	5.83		
1500	2.44	3300	4.14	5100	5.82		
1550	2.48	3350	4.22	5150	5.91		
1600	2.52	3400	4.24	5200	5.92		
1650	2.56	3450	4.31	5250	5.98		
1700	2.62	3500	4.35	5300	6.01		

14 APPENDIX F Abbreviations and acronyms

A	ampere
AC	alternating current
A/m	ampere per meter
AM	amplitude modulation
AVRG	average (detector)
cm	centimeter
dB	decibel
dBm	decibel referred to one milliwatt
dB(μV)	decibel referred to one microvolt
dB(μV/m)	decibel referred to one microvolt per meter
dB(μA)	decibel referred to one microampere
DC	direct current
DTS	digital transmission system
EIRP	equivalent isotropically radiated power
ERP	effective radiated power
EUT	equipment under test
F	frequency
GHz	gigahertz
GND	ground
H	height
HL	Hermon laboratories
Hz	hertz
k	kilo
kHz	kilohertz
LISN	line impedance stabilization network
LO	local oscillator
m	meter
MHz	megahertz
min	minute
mm	millimeter
ms	millisecond
μs	microsecond
NA	not applicable
NT	not tested
OATS	open area test site
Ω	Ohm
PS	power supply
ppm	part per million (10^{-6})
QP	quasi-peak
RE	radiated emission
RF	radio frequency
rms	root mean square
Rx	receive
s	second
T	temperature
Tx	transmit
V	volt
VA	volt-ampere

END OF TEST REPORT

15 APPENDIX G RADWIN 1000/2000 Antenna List and Power Settings

RADWIN

FCC ID: Q3KRW2058U, IC: 5100A-RW2054

The following table contains the antennas that are provided with the RADWIN 1000/2000 models operating in the 5725-5825 MHz band according to FCC Part 15 Subpart E Section 407 and IC Radio Standard Specification RSS-210. The output power ascribed to each antenna assembly gain is the maximum transmission power allowed to keep compliance with the standards mentioned.

Part Number	Type	Antenna Frequency [GHz]	Antenna Assembly Gain at 5725-5825 MHz [dBi]	Channel Frequency [MHz]	Channel Bandwidth [MHz]	Output Power [dBm]
RW-9721-5158	Dish - Dual Pole	4.9 - 6.06	28*	5735, 5775, 5815	5	11.6
				5730, 5820	5	9.6
				5740, 5775, 5810	10	23.3
				5735, 5815	10	13.5
				5755, 5775, 5795	20	24.5
				5735, 5815	20	-3.83
				5775	40	23.8
				5745, 5805	40	0.6
RW-9721-5158	Dish - Dual Pole	4.9 - 6.06	6*	5730, 5775, 5820	5	23.1
				5735, 5775, 5815	10	26.1
				5730, 5820	10	14.4
				5740, 5775, 5810	20	26.7
				5735, 5815	20	18.5
				5775	40	29.3
				5745, 5805	40	23.9
RW-9611-4958INT	FP Dual Pole Integrated	4.9 - 6.0	22.5	5735, 5775, 5815	5	17.5
				5730, 5820	5	15.2
				5740, 5775, 5810	10	26.3
				5735, 5815	10	18.9
				5755, 5775, 5795	20	26.3
				5735, 5815	20	0.9
				5775	40	24.4
				5745, 5805	40	5.1
RW-9611-4958	FP Dual Pole External	5.15 - 6.09	22.5*	5735, 5775, 5815	5	17.5
				5730, 5820	5	15.2
				5740, 5775, 5810	10	26.3
				5735, 5815	10	18.9
				5755, 5775, 5795	20	26.3
				5735, 5815	20	0.9
				5775	40	24.4
				5745, 5805	40	5.1
RW-9611-4958	FP Dual Pole External	5.15 - 6.09	6*	5730, 5775, 5820	5	23.1
				5735, 5775, 5815	10	26.1
				5730, 5820	10	14.4
				5740, 5775, 5810	20	26.7
				5735, 5815	20	18.5
				5775	40	29.3
				5745, 5805	40	23.9

* Antenna assembly gain = Antenna Gain - Feeder Loss

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RADWIN

16 APPENDIX H RADWIN 5000 Antenna List and Power Settings

RADWIN

FCC ID: Q3KRW2058U, IC: 5100A-RW2054

The following table contains the antennas that are provided with the RADWIN 5000 model operating in the 5725-5825 MHz band according to FCC Part 15 Subpart E Section 407 and IC Radio Standard Specification RSS-210. The output power ascribed to each antenna assembly gain is the maximum transmission power allowed to keep compliance with the standards mentioned.

Part Number	Type	Antenna Frequency [GHz]	Antenna Assembly Gain at 5725-5825 MHz [dBi]	Channel Frequency [MHz]	Channel Bandwidth [MHz]	Output Power [dBm]
RW-9061-5001	FP Dual Pole External	4.9 - 5.95	13*	5735, 5775, 5815	5	17.5
				5730, 5820	5	15.2
				5740, 5775, 5810	10	20.9
				5735, 5815	10	18.9
				5755, 5775, 5795	20	23
				5735, 5815	20	0.9
				5775	40	23
				5745, 5805	40	5.1
RW-9061-5001	FP Dual Pole External	4.9 - 5.95	6*	5730, 5775, 5820	5	23.1
				5735, 5775, 5815	10	26.1
				5730, 5820	10	14.4
				5740, 5775, 5810	20	26.7
				5735, 5815	20	18.5
				5775	40	29.3
				5745, 5805	40	23.9
RW-9061-5002	FP Dual Pole External	4.9 - 6.06	15.5*	5730, 5775, 5820	5	15.2
				5735, 5775, 5815	10	18.5
				5755, 5775, 5795	20	20.5
				5735, 5815	20	0.9
				5775	40	20.5
				5745, 5805	40	5.1
RW-9061-5002	FP Dual Pole External	4.9 - 6.06	6*	5730, 5775, 5820	5	23.1
				5735, 5775, 5815	10	26.1
				5730, 5820	10	14.4
				5740, 5775, 5810	20	26.7
				5735, 5815	20	18.5
				5775	40	29.3
				5745, 5805	40	23.9

* Antenna assembly gain = Antenna Gain - Feeder Loss

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