

Appendix D - Radiated Spurious Emissions
Test Data:
Uplink 406.1-420MHz:

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
200.0	286.0	Horizontal	-51.5	-13.0	-38.5
503.7	32.0	Horizontal	-41.8	-13.0	-28.8
854.9	66.0	Horizontal	-44.4	-13.0	-31.4
2494.5	164.0	Horizontal	-42.7	-13.0	-29.7
6332.9	76.0	Horizontal	-42.8	-13.0	-29.8
11474.8	328.0	Horizontal	-42.9	-13.0	-29.9
105.8	294.0	Vertical	-51.4	-13.0	-38.4
454.0	109.0	Vertical	-44.4	-13.0	-31.4
706.6	148.0	Vertical	-40.7	-13.0	-27.7
2510.2	304.0	Vertical	-46.2	-13.0	-33.2
6349.7	38.0	Vertical	-38.3	-13.0	-25.3
12097.7	312.0	Vertical	-37.7	-13.0	-24.7

Uplink 421-430MHz:

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
196.6	299.0	Horizontal	-52.1	-13.0	-39.1
497.9	197.0	Horizontal	-44.7	-13.0	-31.7
849.3	116.0	Horizontal	-41.7	-13.0	-28.7
2488.5	67.0	Horizontal	-35.6	-13.0	-22.6
6327.6	213.0	Horizontal	-34.9	-13.0	-21.9
11468.6	351.0	Horizontal	-31.4	-13.0	-18.4
101.4	228.0	Vertical	-52.2	-13.0	-39.2
451.8	181.0	Vertical	-45.6	-13.0	-32.6
703.9	123.0	Vertical	-44.0	-13.0	-31.0
2505.1	44.0	Vertical	-39.6	-13.0	-26.6
6349.4	318.0	Vertical	-41.0	-13.0	-28.0
12091.1	146.0	Vertical	-39.3	-13.0	-26.3



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Uplink 450-470MHz:

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
197.6	86.0	Horizontal	-50.8	-13.0	-37.8
495.5	208.0	Horizontal	-42.3	-13.0	-29.3
858.5	134.0	Horizontal	-41.6	-13.0	-28.6
2490.3	199.0	Horizontal	-44.9	-13.0	-31.9
6334.3	256.0	Horizontal	-52.2	-13.0	-39.2
11472.2	310.0	Horizontal	-51.6	-13.0	-38.6
99.9	144.0	Vertical	-49.3	-13.0	-36.3
454.5	109.0	Vertical	-43.0	-13.0	-30.0
706.7	65.0	Vertical	-43.3	-13.0	-30.3
2507.7	266.0	Vertical	-49.0	-13.0	-36.0
6348.7	351.0	Vertical	-51.6	-13.0	-38.6
12096.4	74.0	Vertical	-47.3	-13.0	-34.3

Uplink 470-512MHz:

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
198.7	290.0	Horizontal	-54.9	-13.0	-41.9
502.6	71.0	Horizontal	-41.7	-13.0	-28.7
851.3	302.0	Horizontal	-42.8	-13.0	-29.8
2495.7	75.0	Horizontal	-45.7	-13.0	-32.7
6335.6	343.0	Horizontal	-40.6	-13.0	-27.6
11473.6	187.0	Horizontal	-50.8	-13.0	-37.8
107.4	282.0	Vertical	-49.4	-13.0	-36.4
455.5	218.0	Vertical	-46.1	-13.0	-33.1
704.8	127.0	Vertical	-44.2	-13.0	-31.2
2511.5	229.0	Vertical	-48.7	-13.0	-35.7
6347.4	222.0	Vertical	-50.2	-13.0	-37.2
12093.6	229.0	Vertical	-50.8	-13.0	-37.8

Remark:

We only show the worst test result, which is the test of the external antenna with 50 ohm impedance.

No emissions were detected within 20dB below the limit for the Downlink direction.

The cabinet radiation was measured with the equipment transmitting a CW signal into a non-radiating 50 Ohm load at maximum output power on a signal frequency.

Measurements were performed in the lowest, middle and highest frequency for the Uplink.

The spectrum was searched from 30MHz to 18GHz or 10th Harmonic for Uplink.



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com