

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

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
206.3	320.0	Horizontal	-48.4	-13.0	-35.4
508.4	10.0	Horizontal	-40.0	-13.0	-27.0
859.5	274.0	Horizontal	-41.4	-13.0	-28.4
2495.3	31.0	Horizontal	-41.3	-13.0	-18.3
6339.2	88.0	Horizontal	-41.8	-13.0	-18.8
11479.7	120.0	Horizontal	-39.5	-13.0	-16.5
106.0	76.0	Vertical	-48.6	-13.0	-35.6
460.3	80.0	Vertical	-42.4	-13.0	-29.4
709.4	328.0	Vertical	-40.2	-13.0	-27.2
2511.2	101.0	Vertical	-45.1	-13.0	-22.1
6354.9	191.0	Vertical	-38.0	-13.0	-25.0
12102.4	130.0	Vertical	-35.6	-13.0	-22.6

**Downlink 421-430MHz:**

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
200.1	6.0	Horizontal	-51.8	-13.0	-38.8
501.9	276.0	Horizontal	-41.8	-13.0	-28.8
854.9	249.0	Horizontal	-41.4	-13.0	-28.4
2491.9	135.0	Horizontal	-34.1	-13.0	-21.1
6332.6	199.0	Horizontal	-32.6	-13.0	-19.6
11474.3	350.0	Horizontal	-31.3	-13.0	-18.3
102.1	117.0	Vertical	-48.9	-13.0	-35.9
453.9	199.0	Vertical	-44.4	-13.0	-31.4
706.0	187.0	Vertical	-43.2	-13.0	-30.2
2509.4	344.0	Vertical	-37.6	-13.0	-24.6
6352.5	334.0	Vertical	-40.6	-13.0	-27.6
12097.4	164.0	Vertical	-38.9	-13.0	-25.9



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**Downlink 450-470MHz:**

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
201.0	275.0	Horizontal	-49.2	-13.0	-36.2
502.2	229.0	Horizontal	-39.5	-13.0	-26.5
859.4	349.0	Horizontal	-38.1	-13.0	-25.1
2496.7	339.0	Horizontal	-42.7	-13.0	-19.7
6334.9	36.0	Horizontal	-49.6	-13.0	-16.6
11475.7	90.0	Horizontal	-48.7	-13.0	-15.7
106.1	53.0	Vertical	-48.4	-13.0	-35.4
457.6	227.0	Vertical	-40.9	-13.0	-27.9
709.0	155.0	Vertical	-40.2	-13.0	-27.2
2514.1	280.0	Vertical	-46.2	-13.0	-23.2
6355.1	304.0	Vertical	-48.2	-13.0	-25.2
12099.2	222.0	Vertical	-45.9	-13.0	-22.9

**Downlink 470-512MHz:**

Frequency (MHz)	Spurious Emission Level			Limit dBm	Over limit (dB)
	(Deg)	Polaxis	(dBm)		
201.2	255.0	Horizontal	-51.2	-13.0	-38.2
507.8	187.0	Horizontal	-39.7	-13.0	-26.7
856.9	18.0	Horizontal	-40.4	-13.0	-27.4
2497.1	210.0	Horizontal	-43.8	-13.0	-20.8
6338.3	61.0	Horizontal	-39.1	-13.0	-16.1
11478.5	100.0	Horizontal	-48.1	-13.0	-15.1
108.8	48.0	Vertical	-46.3	-13.0	-33.3
460.2	26.0	Vertical	-43.7	-13.0	-30.7
708.4	176.0	Vertical	-41.8	-13.0	-28.8
2516.0	37.0	Vertical	-46.7	-13.0	-23.7
6353.6	180.0	Vertical	-49.0	-13.0	-26.0
12099.9	68.0	Vertical	-47.4	-13.0	-24.4

**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.

Measured were performed in the lowest, middle and highest frequency for the Downlink.

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



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