



**Intermod & Spurious Emissions  
Field Report**

**WXFX- FM  
Montgomery, AL**

**Cumulus Broadcasting**

**Date of Service:  
November 28<sup>th</sup>, 2006**

**By:  
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Freq A 95.1 Freq B 103.3 WXFX-FM 11/28/2006  
Montgomery, AL

IntMod	Freq MHz	Level(dBc)
A+B	198.4	-81.2
B-A	8.2	-85.3
2A	190.2	-81.2
2B	206.6	-80.9
2A-B	86.9	-80.8
2B-A	111.5	-80.9
2A+B	293.5	-83.4
2B+A	301.7	-88.3
2A+2B	396.8	-83.6
2B-2A	16.4	-83.2
3A	285.3	-87.1
3B	309.9	-89.3
3A-B	182	-88.4
3A+B	388.6	-87.4
3B+A	405	-89.3
3B-A	214.8	-81.9
3A+2B	491.9	-89.2
3A-2B	78.7	-81.5
3B+2A	500.1	-86.9
3B-2A	119.7	-82.2
3B+3A	595.2	-88.7
3B-3A	24.6	-84.6

Freq	ERP
95.1	1700
92.3	30000
101.9	30000
103.3	30000

All measurements taken with  
transmitters at full power

The measurements support C.F.R. sections 73.317(b) – 73.317(d) Compliance

120kHz – 240 kHz > 40 dB Below level of the unmodulated carrier

240kHz – 600 kHz > 50 dB Below level of the unmodulated carrier

Greater then 600 kHz Measurements show a Signal to Spur ratio of –80.1 dB.  
FCC requires 80.0dB

Freq A	Freq B	
95.1	101.9	
IntMod	Freq MHz	Level(dBc)
A+B	197	-84.4
B-A	6.8	-83.2
2A	190.2	-81.3
2B	203.8	-85.9
2A-B	88.3	-82.2
2B-A	108.7	-84
2A+B	292.1	-87.6
2B+A	298.9	-87.5
2A+2B	394	-88.2
2B-2A	13.6	-83.7
3A	285.3	-88.7
3B	305.7	-89.1
3A-B	183.4	-82.9
3A+B	387.2	-86.3
3B+A	400.8	-85.2
3B-A	210.6	-86.1
3A+2B	489.1	-88.3
3A-2B	81.5	-83.6
3B+2A	495.9	-89.1
3B-2A	115.5	-85.2
3B+3A	591	-87.9
3B-3A	20.4	-84.1

Freq A 92.3 IntMod	Freq B 95.1 Freq MHz	Level(dBc)
A+B	187.4	-84.1
B-A	2.8	-85.1
2A	184.6	-83.2
2B	190.2	-84.7
2A-B	89.5	-84.7
2B-A	97.9	-80.7
2A+B	279.7	-86.7
2B+A	282.5	-86
2A+2B	374.8	-88.1
2B-2A	5.6	-83.4
3A	276.9	-86.1
3B	285.3	-86.9
3A-B	181.8	-84.2
3A+B	372	-87.5
3B+A	377.6	-87.4
3B-A	193	-89.2
3A+2B	467.1	-88.1
3A-2B	86.7	-85.2
3B+2A	469.9	-88.2
3B-2A	100.7	-81.7
3B+3A	562.2	-87.9
3B-3A	8.4	-83.8

Freq A  
101.9

Freq B  
103.3

IntMod      Freq MHz      Level(dBc)

A+B	205.2	-88.5
B-A	1.4	-84.8
2A	203.8	-85.7
2B	206.6	-86.2
2A-B	100.5	-83.8
2B-A	104.7	-83.1
2A+B	307.1	-85.8
2B+A	308.5	-86.9
2A+2B	410.4	-88.1
2B-2A	2.8	-82.8
3A	305.7	-87.9
3B	309.9	-87.4
3A-B	202.4	-83.9
3A+B	409	-89.2
3B+A	411.8	-88.9
3B-A	208	-86.5
3A+2B	512.3	-87.5
3A-2B	99.1	-83.2
3B+2A	513.7	-86.8
3B-2A	106.1	-82.6
3B+3A	615.6	-88.2
3B-3A	4.2	-83.1

Freq A

92.3

Freq B

103.3

IntMod

Freq MHz

Level(dBc)

A+B	195.6	-87.9
B-A	11	-83.2
2A	184.6	-81.9
2B	206.6	-83.2
2A-B	81.3	-81.7
2B-A	114.3	-83.6
2A+B	287.9	-88.7
2B+A	298.9	-88.8
2A+2B	391.2	-89.4
2B-2A	22	-85.1
3A	276.9	-87.8
3B	309.9	-87.5
3A-B	173.6	-84.2
3A+B	380.2	-86.6
3B+A	402.2	-89
3B-A	217.6	-88.2
3A+2B	483.5	-87.6
3A-2B	70.3	-83.7
3B+2A	494.5	-88.8
3B-2A	125.3	-84.2
3B+3A	586.8	-86.9
3B-3A	33	-84.3