

## Comparisons of FM Reception - December 21, 2024

Frequency	Station	Class	Qual	HD	DA	Mode	Location	Site	Info
88.1	KVOD	C3	L			S	Lakewood (Denver)	Lookout Mt.	CPR Classical
88.5	KGNU-FM	C2	M		DA	S/M	Boulder	Firestone, CO	Open-access
88.7	KCME	C1	F				Manitou Springs	Cheyenne Mt.	Classical
88.9	K205FV	D	M		DA	S		Lookout Mt.	EMF Air1, CCM worship
89.3	KUVO	C1	L	HD	DA	S	Denver	Mt. Morrison	Jazz (+NPR news some hrs)
89.7	KXGR	C0	M			S	Loveland	Buckhorn Mt.	Grace FM (Christian)
90.1	KCFR	C1	L	HD		M	Denver	Lookout Mt.	CPR News (NPR)
90.5	K213EG	D	F			S	Littleton	Lookout Mt.	//KTLF "The Light", CCM
91.1	KLDV	C0	L	HD		S	Morrison	Mt. Morrison	EMF K-Love, CCM
91.5	KUNC	C1	L/M			M	Greeley	Buckhorn Mt.	KUNC (NPR)
91.7	K219LF	D	M		DA	M	Idaho Springs	Lookout Mt.	//KUNC
92.1	KJMN	C2	L	HD		S	Castle Rock	Roxborough State Park	La Suavecita
92.5	KKSE-FM	C2	L		DA	M	Broomfield	Eldorado Mt. (west of Broomfield)	
92.9	K225BS	D	M		DA	S	Denver	N of downtown Denver	Denver Open Media
93.3	KTCL	C1	L	HD	DA	S	Wheat Ridge	Lookout Mt.	Channel 93.3, alternative
93.7	K229BS	D	M		DA	M	Lakewood (Denver)	Lookout Mt.	//KDFD 760 "Freedom"
93.9	KETO-LP	D	M			S	Aurora	Near Del Mar Circle, Aurora	Ethiopian, etc.
94.1	K231BQ	D	M		DA	M	Denver	Lookout Mt.	//KOA 850
94.3	KILO	C	F				Colorado Springs	Cheyenne Mt.	Rock
94.7	KRKS-FM	C	L		DA	S	Lafayette (Boulder)	NW of Boulder	Religious (preaching)
95.1	K236CQ	D	M		DA	S	Commerce City	NE of Commerce City	//KLTT 670, preaching
95.1	KATC	C	F				Colorado Springs	Cheyenne Mt.	Cat Country 95.1
95.3	K237GG	D	L/M		DA	S	Denver	Lookout Mt.	//KLZV 810 "Legends 95.3"
95.7	KDHT	C0	L	HD	DA	S	Denver	Lookout Mt.	Hits 95.7, CHR
96.1	KSME	C1	F				Greeley	East of Wellington	Kiss FM
96.5	KXPK	C	L			S	Evergreen (Denver)	Mestaa'ehehe Mt. (S of Idaho Spgs)	La Tricolor
96.9	KCCY	C	F				Pueblo	Cheyenne Mt.	"Y96.9", country
97.3	KBCO	C	L	HD	DA	S	Boulder	Eldorado Mt. (west of Broomfield)	AAA
97.7	K249EX	D	M		DA	S	Denver	Lookout Mt.	//KBNO 1280 (español)
97.9	KXBG	C1	M/F			S	Cheyenne, WY	Red Mt. Open Space	Fort Collins, country
98.1	K251CV	D	M		DA	M	Golden	Lookout Mt.	//KLDV-HD3 K-Love 2000s
98.1	KKFM	C	F				Colorado Springs	Cheyenne Mt.	Classic rock
98.5	KYGO	C0	L	HD	DA	S	Denver	Mt. Morrison	Country
98.9	KKMG	C	F				Colorado Springs	Cheyenne Mt.	Magic FM, AC
99.1	K256CT	D	M		DA	S/M	Denver	Lookout Mt. (note 4)	//KGNU-FM 88.5
99.5	KQMT	C	L	HD	DA	S	Denver	Lookout Mt.	The Mountain, AOR
99.9	KVUU	C	F				Pueblo	Cheyenne Mt.	"My 99.9", CHR
100.3	KIMN	C0	L	HD	DA	S	Denver	Mt. Morrison	Mix 100, AC
100.7	K264BO	D	M		DA	S	Denver	Lookout Mt.	//KLZ 560
100.7	KGFT	C	F		DA		Pueblo	Cheyenne Mt.	"The Word 100.7", preaching
100.7	KOLT	C1	F				Cheyenne, WY	SW of Cheyenne, WY	Kolt FM, country
101.1	KOSI	C0	L	HD	DA	S	Denver	Mt. Morrison	AC
101.5	KSRC	C*	L		B	S	Watkins	Booster: Parker Rd. @ Evans Ave.	Star 101.5, CCM
101.9	KXWA	C3	L			S	Centennial	Roxborough State Park	Way FM, CCM
102.3	KVOQ	A	L		DA	S	Greenwood Village	Lookout Mt.	CPR "Indie 102.3", AAA
102.5	KTRR	C2	F				Loveland	W of Pierce (Weld Co.)	
102.7	K274DF	D	M			S	Denver	Westminster	//KPOF 910
102.9	KARS	C1	F				Laramie, WY	NW of Red Feather Lakes (in Colorado)	
103.1	K276FK	D	M			S	Denver	Lookout Mt.	Front Range Country
103.5	KRFX	C0	L	HD	DA	S	Denver	Lookout Mt.	The Fox, classic rock
103.9	K280GB	D	M		DA	S	Pleasant View	Lookout Mt.	EMF Air1, CCM worship

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104.3	KKFN	C1	L	HD		M	Longmont	Green Mt. (Lakewood)	The Fan, sports
104.7	K284CI	D	M/L		DA	S	Denver	Lookout Mt.	The Drop, hip-hop
105.1	KXKL	C0	L	HD	DA	S	Denver	Mt. Morrison	Cool 105.1, classic hits
105.5	KJAC	C1	L/M		DA	S	Timnath (note 5)	Buckhorn Mt.	The Colorado Sound, AAA
105.9	KALC	C	L	HD		S	Denver	Lookout Mt.	“Alice”
106.3	K292FM	D	L/M		DA	S	Denver	Lookout Mt.	The Light, CCM (note 6)
106.7	KWBL	C0	L	HD		S	Denver	Lookout Mt.	The Bull, country
107.1	KFCO	C*	L		B	S	Bennett	Booster: Parker Rd. @ Evans Ave.	“Flo”, Christian hip-hop
107.5	KXKS	C	L	HD		S	Lakewood	Green Mt. (Lakewood)	“KS 107.5”, rhythmic CHR
107.9	K300CP	D	L		DA	S	Denver	18 <sup>th</sup> & California, Denver	//KBPI 107.9 (note 7)
Notes:									
Headings:									
[1]	Quality: L = Local; M = Marginal; F = Fringe (Faint)								
[2]	DA: also used for “B” where a booster is involved (KSRC, KFCO)								
[3]	Mode: S = Stereo; M = always in mono; S/M = sometimes in stereo								
Individual Stations:									
[4]	CP to move to 88.5 (as K203FQ), site at Republic Plaza, 17 <sup>th</sup> & Tremont Place, Denver								
[5]	The Qodosen DX-286 can’t get KJAC in stereo even at a signal strength sufficient for other stations to do so								
[6]	Relays KTLF Colorado Springs via KQMT-HD2 in Denver								
[7]	On the same channel as its parent station in Fort Collins, relayed via KDHT-HD2 in Denver								
General:	* For boosters, the Class shown is of the originating station.								
Radio Models:									
D-109WB	XHDATA D-109WB								
DX-286	Qodosen DX-286								
PL-320	Tecsun PL-320								
PL-310ET	Tecsun PL-310ET								
Scoring Scale									
0.5	Trace of a signal detected but difficult to hear								
1	Very noisy but readable								
2	A little less noisy								
3	Readable with some noise								
4	A small amount of noise, otherwise strong								
5	Quiet, strong local signal								
Note:									
A radio receiving a station broadcasting in stereo must <b>receive</b> it									
in stereo; otherwise, its maximum score will be 3. (Also see Note 5 above)									

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Frequency	D-109WB	DX-286	PL-320	PL-310ET	PL-380	
88.1	4	5	5	5	4	
88.5	3	4	3	4	3	
88.7						
88.9	3	4	3	2	2	
89.3	5	5	5	5	5	
89.7	4	5	4	4	4	
90.1	5	5	5	5	5	
90.5						
91.1	5	5	5	5	5	
91.5	5	5	5	5	4	
91.7						
92.1	4	5	5	5	5	
92.5	5	5	5	5	5	
92.9	4	4	4	4	4	
93.3	5	5	5	5	5	
93.7	4	5	5	5	5	
93.9	4	4	3	3	3	
94.1	5	5	5	5	5	
94.3	0.5	0.5	0.5	0.5	1	
94.7	5	5	5	5	5	
95.1	1	1	0.5	0.5	0.5	
95.1						
95.3	3	3	3	3	3	
95.7	5	5	5	5	5	
96.1	3	3	3	2	2	
96.5	5	5	5	5	5	
96.9	1	0.5	1	2	3	
97.3	5	5	5	5	5	
97.7	3	4	3	3	3	
97.9	1	3	1	1	1	
98.1	4	4	4	4	4	
98.1						
98.5	5	5	5	5	5	
98.9						
99.1	2	3	3	2	2	
99.5	5	5	5	5	5	
99.9	0	0	0	0.5	0.5	
100.3	5	5	5	5	5	
100.7	3	3	3	2	2	
100.7						
100.7						
101.1	5	5	5	5	5	
101.5	5	5	5	5	5	
101.9	5	5	5	5	5	
102.3	4	5	5	5	4	
102.5	0	1	0.5	0.5	0.5	
102.7	3	4	4	3	3	
102.9	0	0	0	0.5	0.5	
103.1	4	5	5	5	5	
103.5	5	5	5	5	5	
103.9	3	3	3	2	2	

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104.3	5	5	5	5	5
104.7	4	5	5	5	5
105.1	5	5	5	5	5
105.5	3	3	3	4	3
105.9	5	5	5	5	5
106.3	3	4	4	4	4
106.7	5	5	5	5	5
107.1	5	5	5	5	5
107.5	5	5	5	5	5
107.9	5	5	5	5	5
Total	200.5	216	208.5	206.5	203
Average	3.8	4.1	3.9	3.9	3.8
SD	1.5	1.5	1.6	1.6	1.5
<b>“Total” margin of error ± 3</b>					
A lower average may be better, indicating that the unit is picking up more faint signals. On the other hand, a lower average may also indicate that the unit is not picking up some stations as well as other units are doing. Ultimately, the “average” may either have contradictory meanings, or not mean very much at all.					
<b>Observed variability in signal evaluation may have several causes:</b>					
1. Changes in atmospheric conditions from minute to minute, especially for fringe signals.					
2. Changes in antenna orientation. I could be more consistent about this.					
3. Perception: ultimately I’m attaching a number to an opinion, which tries to convert a qualitative approach into a quantitative one. Such an approach is not perfect. Lacking more sophisticated equipment for measurement, it’s the best I can do and still may have some value.					
<b>Specific circumstances at the time of this evaluation</b>					
1) K219LF was off the air.					
2) K251CV was //KLDV-HD3 for the first day (formerly Mile High Sports)					
3) It was an unusually warm day in December though no evidence of temperature inversion or other factors that could affect reception.					
4) Reception was outdoors at ground level.					
5) Evaluation was conducted between 3:30 and 4:30 pm.					