

Doug Vernier, Telecommunications Consultants
401 Main St., Ste 213, Cedar Falls, IA 50613

Contour-to-Contour Overlap Table
Kcbx, Inc.

REFERENCE CH# 208A - 89.5 MHz, Pwr= 0.05 kW DA, HAAT= 276.2 M, COR= 664 M DISPLAY DATES
34 27 56.1 N. Average Protected F(50-50)= 14.39 km DATA 10-27-14
119 40 38.0 W. Standard Directional SEARCH 10-27-14

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
208A Santa Barbara	KSBX	LIC DCX CA	43.2 223.2	0.03 BLED20030807AGF	34 27 57.0 119 40 37.0	0.050 274	71.7 661	22.2 Kcbx, Inc.	-74.5*	-31.5*
208A Ojai	KJAI	LIC DCX CA	97.4 277.6	45.26 BLED20030305AAI	34 24 45.0 119 11 16.0	0.097 403	40.2 885	9.4 Southern California Public	-0.2	4.5 ***
209B Santa Maria	KCLM	LIC DCX CA	316.9 136.6	67.85 BLED20130612ABN	34 54 37.0 120 11 08.0	2.450 569	55.8 1005	37.1 California Lutheran Univer	1.5	10.8
208B Shafter	KAIB	LIC DCX CA	8.3 188.4	129.13 BLED20061030AAY	35 36 53.0 119 28 16.0	50.000 109	105.4 188	36.4 Educational Media Foundati	18.5	78.2
206A Oxnard	KCRU	LIC DCX CA	124.5 304.8	68.96 BLED20040422ABU	34 06 47.0 119 03 34.0	0.850 260	1.9 405	34.7 Santa Monica Community Col	56.8	34.2
207B San Luis Obispo	KLFF	LIC _C_ CA	318.4 137.9	133.55 BLED19950929KC	35 21 37.0 120 39 17.0	4.400 466	74.5 799	33.5 Logos Broadcasting Corpora	48.6	73.7
205A Nipomo	KXWB	LIC _VX CA	302.0 121.6	77.98 BLED20120228AAF	34 50 08.0 120 24 06.0	0.520 255	1.6 426	19.0 Iglesia De Dios, El Cuerpo	60.4	55.3
262B1 Lompoc	KRQK«	LIC _CN CA	293.8 113.4	76.86 BLH19891127KC	34 44 30.0 120 26 45.0	3.700 263	0.0 416	0.0 Agm California, Inc.	11.5R	65.4M
207B Pasadena	KPCC	LIC _CX CA	99.7 280.6	150.25 BMLED20090309ABE	34 13 36.0 118 03 58.0	0.600 891	68.8 1783	44.1 Pasadena Area Community Co	74.9	90.2
210B Santa Monica	KCRW	LIC _CN CA	107.7 288.4	124.21 BLED19810325AF	34 07 08.0 118 23 30.0	6.900 338	3.9 537	42.5 Santa Monica Community Col	112.2	78.9

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= - Zone 1A, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.
Reference station has protected zone issue:
*** Incoming Overlap from KJAI, already exists under current KSBX license.

HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "IN " is the difference in kilometers between of the reference station's protected contour and the data file station's interference contour at the closest point between the contours. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, "IN" column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are those given in the FCC database. The column labeled "OUT " shows the greatest distance in kilometers of overlap or smallest of clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap.

Under the "AZI" column, the first row of numbers indicate the True North bearings from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships, some channel-six TV relationships and relationships with commercial channel stations providing clearance the minimum spacings values the "IN" and "OUT" columns can change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** (or lack of it) in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The call letters of stations meeting the minimum separation distances under the rules will be flagged by the characters "<<" appended to the right-hand side of the call sign. The "^" character appended to the call sign means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N" or left blank.

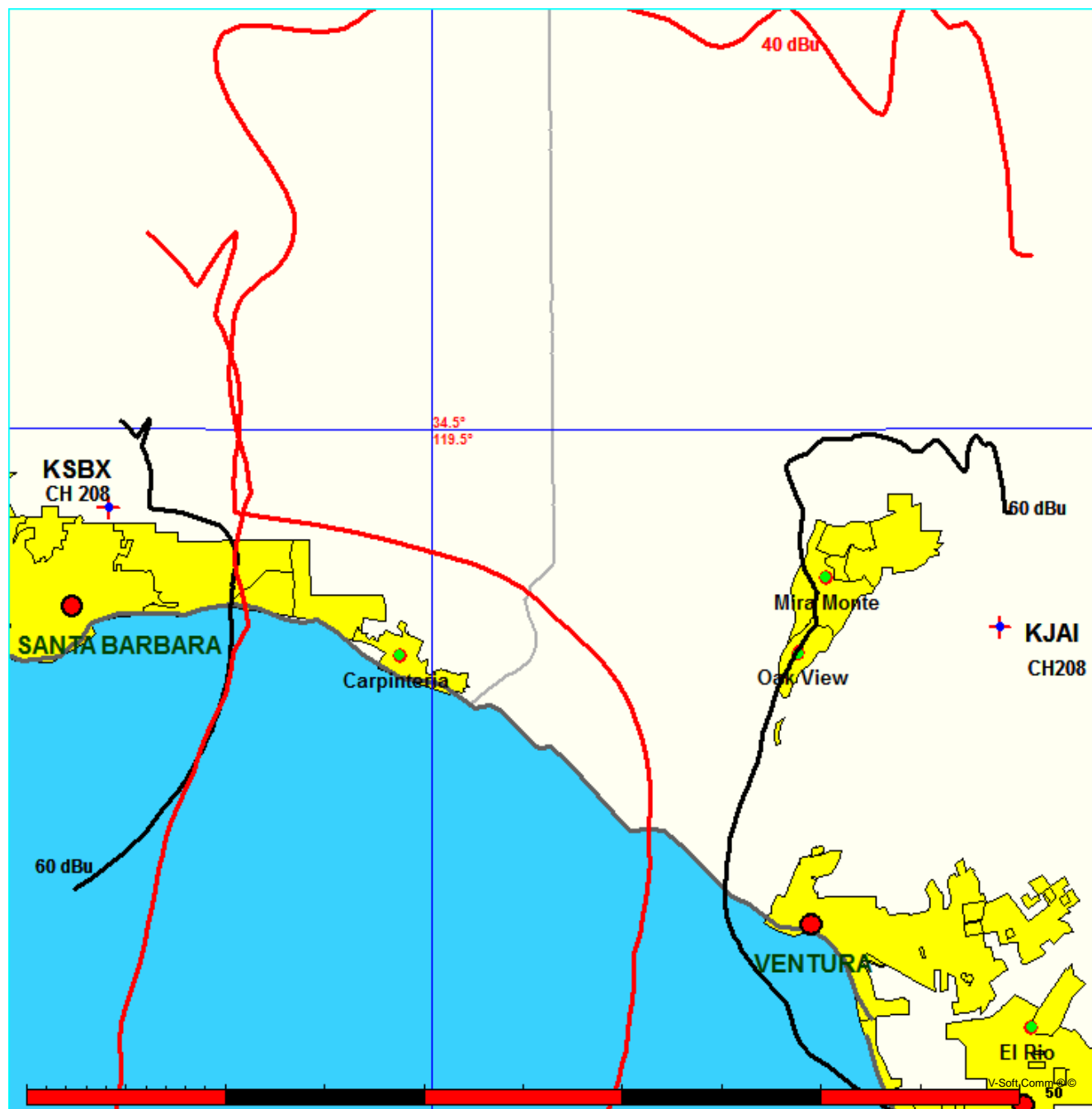
Translator relationships with LPTV/Translators is calculated using the 62 dBu protected and the F(50-10) interference contour, as defined in section 74.1205 of the Rules.

Contour-to-Contour KJAI vs KSBX
Kcbx, Inc.

FMCommander Single Allocation Study - 10-27-2014 - FCC NGDC 30 Sec
KSBX's Overlaps (In= -0.16 km, Out= 4.51 km)

KSBX CH 208 A DA
Lat= 34 27 56.1, Lng= 119 40 38.0
0.05 kW 276.2 M HAAT, 664 M COR
Prot.= 60 dBu, Intef.= 40 dBu

KJAI CH 208 A DA BLED20030305AAI
Lat= 34 24 45.0, Lng= 119 11 16.0
0.097 kW 403 M HAAT, 885 M COR
Prot.= 60 dBu, Intef.= 40 dBu



10-27-2014

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

KSBX

KJAI BLED20030305AAI

Channel = 208A
 Max ERP = 0.05 kW
 RCAMSL = 664 M
 N. Lat. 34 27 56.1
 W. Lng. 119 40 38.0
 Protected
 60 dBu

Channel = 208A
 Max ERP = 0.097 kW
 RCAMSL = 885 M
 N. Lat. 34 24 45.0
 W. Lng. 119 11 16.0
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
037.0	000.0092	-0047.1	003.1	281.1	000.0033	0612.6	043.8	37.85	
038.0	000.0088	-0058.5	003.1	281.1	000.0033	0613.1	043.8	37.85	
039.0	000.0084	-0071.6	003.0	281.0	000.0033	0613.6	043.8	37.86	
040.0	000.0080	-0080.1	003.0	280.9	000.0033	0614.1	043.7	37.86	
041.0	000.0076	-0080.6	002.9	280.9	000.0033	0614.5	043.7	37.86	
042.0	000.0073	-0077.2	002.9	280.8	000.0033	0614.9	043.7	37.87	
043.0	000.0070	-0072.8	002.9	280.7	000.0033	0615.3	043.6	37.87	
044.0	000.0067	-0067.0	002.9	280.7	000.0032	0615.7	043.6	37.87	
045.0	000.0064	-0059.1	002.8	280.6	000.0032	0616.1	043.6	37.87	
046.0	000.0061	-0049.5	002.8	280.5	000.0032	0616.6	043.6	37.87	
047.0	000.0058	-0041.4	002.8	280.4	000.0032	0617.0	043.5	37.87	
048.0	000.0055	-0035.2	002.7	280.4	000.0032	0617.4	043.5	37.87	
049.0	000.0053	-0030.2	002.7	280.3	000.0032	0617.8	043.5	37.87	
050.0	000.0050	-0024.7	002.7	280.2	000.0032	0618.3	043.5	37.87	
051.0	000.0048	-0018.7	002.7	280.2	000.0032	0618.7	043.5	37.86	
052.0	000.0046	-0014.0	002.6	280.1	000.0032	0619.0	043.5	37.86	
053.0	000.0044	-0013.3	002.6	280.0	000.0031	0619.4	043.4	37.86	
054.0	000.0042	-0018.1	002.6	280.0	000.0031	0619.8	043.4	37.86	
055.0	000.0040	-0026.3	002.5	279.9	000.0031	0620.2	043.4	37.87	
056.0	000.0038	-0034.8	002.5	279.8	000.0031	0620.6	043.4	37.88	
057.0	000.0037	-0044.3	002.5	279.8	000.0031	0621.0	043.4	37.89	
058.0	000.0035	-0057.2	002.5	279.7	000.0031	0621.4	043.4	37.90	
059.0	000.0033	-0073.3	002.4	279.6	000.0031	0621.8	043.4	37.91	
060.0	000.0032	-0088.8	002.4	279.6	000.0031	0622.2	043.4	37.91	
061.0	000.0030	-0102.2	002.4	279.5	000.0031	0622.5	043.4	37.92	
062.0	000.0029	-0112.3	002.4	279.4	000.0031	0622.8	043.4	37.93	
063.0	000.0028	-0119.8	002.3	279.4	000.0031	0623.1	043.4	37.94	
064.0	000.0027	-0126.9	002.3	279.3	000.0031	0623.5	043.3	37.94	
065.0	000.0025	-0131.7	002.3	279.3	000.0031	0623.8	043.3	37.95	
066.0	000.0024	-0132.8	002.3	279.2	000.0031	0624.1	043.3	37.95	
067.0	000.0023	-0129.2	002.2	279.1	000.0031	0624.3	043.3	37.95	
068.0	000.0022	-0120.4	002.2	279.1	000.0031	0624.6	043.3	37.96	
069.0	000.0021	-0105.5	002.2	279.0	000.0031	0624.8	043.3	37.96	
070.0	000.0020	-0091.2	002.2	278.9	000.0031	0625.1	043.4	37.96	
071.0	000.0020	-0079.3	002.2	278.9	000.0031	0625.2	043.3	37.97	
072.0	000.0019	-0070.7	002.1	278.8	000.0031	0625.4	043.3	37.97	
073.0	000.0019	-0066.9	002.1	278.8	000.0031	0625.6	043.3	37.97	
074.0	000.0018	-0065.3	002.1	278.7	000.0031	0625.8	043.3	37.98	
075.0	000.0018	-0063.4	002.1	278.7	000.0031	0625.9	043.3	37.98	
076.0	000.0017	-0062.2	002.1	278.6	000.0031	0626.1	043.3	37.98	
077.0	000.0017	-0062.6	002.1	278.6	000.0031	0626.2	043.3	37.99	
078.0	000.0017	-0066.3	002.1	278.5	000.0031	0626.3	043.3	37.99	
079.0	000.0016	-0070.2	002.1	278.5	000.0031	0626.5	043.3	37.99	
080.0	000.0016	-0079.1	002.0	278.4	000.0031	0626.6	043.3	37.99	
081.0	000.0016	-0089.9	002.0	278.4	000.0031	0626.7	043.3	38.00	
082.0	000.0016	-0104.9	002.0	278.3	000.0031	0626.8	043.3	38.00	
083.0	000.0016	-0128.8	002.0	278.3	000.0031	0627.0	043.3	38.01	
084.0	000.0016	-0155.2	002.0	278.3	000.0031	0627.1	043.3	38.01	
085.0	000.0016	-0180.9	002.0	278.2	000.0031	0627.2	043.3	38.02	
086.0	000.0016	-0199.7	002.0	278.2	000.0031	0627.3	043.3	38.02	
087.0	000.0016	-0204.8	002.0	278.1	000.0031	0627.4	043.3	38.02	
088.0	000.0016	-0209.5	002.0	278.1	000.0031	0627.5	043.3	38.03	
089.0	000.0016	-0212.4	002.0	278.0	000.0031	0627.6	043.2	38.03	
090.0	000.0016	-0178.1	002.0	278.0	000.0031	0627.7	043.2	38.03	
091.0	000.0016	-0120.8	002.0	277.9	000.0031	0627.8	043.2	38.04	
092.0	000.0016	-0063.4	002.0	277.9	000.0031	0628.0	043.2	38.04	
093.0	000.0016	-0006.2	002.0	277.8	000.0031	0628.1	043.2	38.04	
094.0	000.0016	0040.6	002.4	277.8	000.0031	0628.1	042.9	38.18	
095.0	000.0016	0080.2	003.2	277.8	000.0031	0628.1	042.0	38.53	
096.0	000.0016	0118.3	003.9	277.8	000.0031	0628.3	041.4	38.80	
097.0	000.0016	0155.4	004.4	277.7	000.0031	0628.5	040.9	39.03	
098.0	000.0016	0194.0	004.9	277.6	000.0031	0628.8	040.4	39.23	

099.0	000.0016	0233.5	005.3	277.4	000.0031	0629.1	040.0	39.40		
100.0	000.0016	0269.8	005.6	277.3	000.0031	0629.4	039.7	39.54		
101.0	000.0016	0298.1	005.8	277.1	000.0031	0629.8	039.4	39.64		
102.0	000.0016	0321.8	006.0	276.9	000.0031	0630.2	039.3	39.70		
103.0	000.0016	0341.8	006.1	276.8	000.0031	0630.6	039.2	39.75		
104.0	000.0016	0362.7	006.2	276.6	000.0031	0631.0	039.1	39.80		
105.0	000.0016	0386.3	006.3	276.4	000.0031	0631.4	039.0	39.84		
106.0	000.0016	0409.2	006.4	276.2	000.0031	0631.9	038.9	39.88		
107.0	000.0016	0432.0	006.5	276.0	000.0031	0632.5	038.9	39.91		
108.0	000.0016	0455.6	006.6	275.8	000.0031	0633.1	038.8	39.96		
109.0	000.0016	0478.4	006.7	275.6	000.0031	0633.7	038.7	40.00	0.00	
110.0	000.0016	0499.9	006.8	275.4	000.0031	0634.2	038.6	40.04*	0.08	****
111.0	000.0016	0517.3	006.9	275.2	000.0031	0634.4	038.6	40.06*	0.13	****
112.0	000.0016	0532.5	007.0	275.0	000.0031	0634.3	038.6	40.07*	0.15	****
113.0	000.0016	0546.2	007.0	274.8	000.0031	0633.9	038.6	40.06*	0.15	****
114.0	000.0016	0558.7	007.1	274.6	000.0031	0633.4	038.6	40.05*	0.12	****
115.0	000.0016	0570.2	007.1	274.4	000.0031	0632.8	038.6	40.04*	0.08	****
116.0	000.0016	0580.6	007.1	274.3	000.0031	0632.1	038.6	40.01*	0.03	****
117.0	000.0016	0589.8	007.1	274.1	000.0031	0631.3	038.6	39.99		
118.0	000.0016	0597.9	007.1	273.9	000.0031	0630.5	038.7	39.96		
119.0	000.0016	0604.7	007.2	273.7	000.0031	0629.6	038.7	39.92		
120.0	000.0016	0610.4	007.2	273.5	000.0031	0628.6	038.7	39.89		
121.0	000.0016	0614.9	007.2	273.3	000.0031	0627.3	038.7	39.87		
122.0	000.0017	0618.6	007.3	273.1	000.0031	0625.9	038.7	39.84		
123.0	000.0017	0621.7	007.4	272.9	000.0031	0624.4	038.7	39.83		
124.0	000.0017	0624.6	007.5	272.7	000.0031	0623.0	038.7	39.80		
125.0	000.0018	0627.3	007.5	272.4	000.0031	0621.7	038.7	39.77		
126.0	000.0018	0629.8	007.6	272.2	000.0031	0620.6	038.8	39.74		
127.0	000.0019	0632.0	007.7	272.0	000.0031	0619.7	038.8	39.72		
128.0	000.0019	0633.9	007.8	271.8	000.0031	0618.9	038.8	39.70		
129.0	000.0020	0635.7	007.9	271.5	000.0031	0618.4	038.8	39.68		
130.0	000.0020	0637.3	007.9	271.3	000.0031	0617.9	038.8	39.66		
131.0	000.0021	0638.7	008.1	271.0	000.0031	0617.1	038.8	39.66		
132.0	000.0022	0639.9	008.2	270.7	000.0031	0616.3	038.8	39.65		
133.0	000.0023	0641.0	008.4	270.4	000.0031	0615.5	038.7	39.65		
134.0	000.0024	0641.9	008.6	270.0	000.0031	0614.8	038.7	39.64		
135.0	000.0025	0642.6	008.7	269.7	000.0031	0613.9	038.7	39.68		
136.0	000.0027	0643.2	008.9	269.4	000.0032	0613.0	038.7	39.75		
137.0	000.0028	0643.7	009.1	269.1	000.0032	0612.2	038.7	39.81		
138.0	000.0029	0644.1	009.2	268.7	000.0033	0611.4	038.8	39.85		
139.0	000.0030	0644.3	009.3	268.4	000.0033	0610.6	038.8	39.89		
140.0	000.0032	0644.5	009.5	268.1	000.0034	0608.7	038.8	39.91		
141.0	000.0033	0644.6	009.7	267.7	000.0034	0605.5	038.8	39.94		
142.0	000.0035	0644.6	009.9	267.4	000.0035	0602.4	038.9	39.94		
143.0	000.0037	0644.6	010.0	267.0	000.0036	0599.3	038.9	39.95		
144.0	000.0038	0644.6	010.2	266.6	000.0036	0596.5	039.0	39.95		
145.0	000.0040	0644.7	010.4	266.3	000.0037	0593.4	039.0	39.95		
146.0	000.0042	0644.7	010.6	265.9	000.0038	0590.7	039.1	39.95		
147.0	000.0044	0644.7	010.7	265.6	000.0038	0588.4	039.2	39.94		
148.0	000.0046	0644.8	010.9	265.2	000.0039	0586.1	039.3	39.94		
149.0	000.0048	0644.9	011.1	264.9	000.0039	0585.0	039.4	39.94		
150.0	000.0050	0645.0	011.3	264.5	000.0040	0584.8	039.5	39.97		
151.0	000.0053	0645.3	011.5	264.1	000.0041	0584.8	039.6	40.00		
152.0	000.0055	0645.5	011.7	263.8	000.0041	0584.8	039.7	40.03*	0.06	****Over water
153.0	000.0058	0645.8	011.9	263.4	000.0042	0584.8	039.8	40.06*	0.13	****
154.0	000.0061	0646.2	012.1	263.0	000.0043	0584.5	039.9	40.06*	0.16	****
155.0	000.0064	0646.6	012.3	262.7	000.0044	0584.1	040.1	40.07*	0.16	****
156.0	000.0067	0647.1	012.4	262.3	000.0044	0583.7	040.2	40.06*	0.15	****

**** Note, incoming overlap exists under KSBX's current license - no change in amount.

10-27-2014 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KJAI BLED20030305AAI

KSBX

Channel = 208A
Max ERP = 0.097 kW
RCAMSL = 885 M
N. Lat. 34 24 45.0
W. Lng. 119 11 16.0
Protected
60 dBu

Channel = 208A
Max ERP = 0.05 kW
RCAMSL = 664 M
N. Lat. 34 27 56.1
W. Lng. 119 40 38.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
218.0	000.0339	0670.5	020.9	124.8	000.0018	0626.9	039.1	37.30	

219.0	000.0322	0680.0	020.8	124.6	000.0018	0626.3	038.7	37.42
220.0	000.0306	0688.5	020.6	124.3	000.0018	0625.6	038.4	37.54
221.0	000.0294	0695.8	020.5	124.1	000.0018	0624.9	038.1	37.65
222.0	000.0282	0701.5	020.4	123.8	000.0017	0624.1	037.7	37.76
223.0	000.0270	0705.1	020.2	123.4	000.0017	0623.0	037.4	37.85
224.0	000.0258	0705.5	019.9	123.0	000.0017	0621.7	037.1	37.92
225.0	000.0247	0701.8	019.6	122.4	000.0017	0620.0	036.8	37.94
226.0	000.0236	0696.0	019.3	121.8	000.0016	0618.0	036.6	37.94
227.0	000.0225	0689.3	019.0	121.2	000.0016	0615.5	036.3	37.94
228.0	000.0214	0682.9	018.6	120.5	000.0016	0612.7	036.1	37.92
229.0	000.0204	0676.8	018.3	119.8	000.0016	0609.4	035.9	37.90
230.0	000.0194	0671.1	017.9	119.1	000.0016	0605.4	035.7	37.91
231.0	000.0186	0665.3	017.6	118.5	000.0016	0601.4	035.5	37.92
232.0	000.0178	0658.5	017.3	117.8	000.0016	0596.5	035.4	37.90
233.0	000.0171	0649.5	017.0	117.1	000.0016	0590.7	035.3	37.85
234.0	000.0163	0638.4	016.6	116.3	000.0016	0583.6	035.2	37.76
235.0	000.0156	0626.9	016.2	115.5	000.0016	0575.7	035.1	37.65
236.0	000.0149	0616.9	015.8	114.7	000.0016	0567.3	035.1	37.51
237.0	000.0142	0606.4	015.4	114.0	000.0016	0558.3	035.1	37.36
238.0	000.0135	0595.4	015.0	113.2	000.0016	0548.5	035.1	37.18
239.0	000.0129	0585.0	014.6	112.4	000.0016	0538.6	035.1	36.99
240.0	000.0122	0577.0	014.3	111.7	000.0016	0528.6	035.1	36.80
241.0	000.0117	0571.2	014.0	111.1	000.0016	0519.6	035.0	36.65
242.0	000.0112	0567.0	013.8	110.6	000.0016	0510.7	035.0	36.49
243.0	000.0108	0565.5	013.6	110.1	000.0016	0501.6	035.0	36.34
244.0	000.0103	0567.9	013.4	109.6	000.0016	0492.7	034.9	36.20
245.0	000.0098	0572.0	013.3	109.2	000.0016	0483.4	034.8	36.06
246.0	000.0094	0573.8	013.1	108.8	000.0016	0472.9	034.8	35.87
247.0	000.0090	0571.6	012.9	108.2	000.0016	0461.1	034.8	35.64
248.0	000.0085	0567.9	012.7	107.7	000.0016	0448.8	034.8	35.39
249.0	000.0081	0567.7	012.5	107.2	000.0016	0437.3	034.8	35.13
250.0	000.0077	0568.2	012.3	106.8	000.0016	0426.3	034.9	34.87
251.0	000.0074	0569.4	012.1	106.3	000.0016	0416.6	034.8	34.64
252.0	000.0071	0569.8	012.0	105.9	000.0016	0407.0	034.9	34.40
253.0	000.0068	0571.3	011.8	105.5	000.0016	0397.5	034.9	34.15
254.0	000.0065	0573.1	011.7	105.1	000.0016	0387.9	034.9	33.89
255.0	000.0062	0575.4	011.5	104.7	000.0016	0378.2	034.9	33.63
256.0	000.0059	0577.8	011.4	104.3	000.0016	0368.6	034.9	33.35
257.0	000.0057	0579.0	011.2	103.8	000.0016	0359.1	035.0	33.07
258.0	000.0054	0579.5	011.0	103.4	000.0016	0350.2	035.1	32.79
259.0	000.0051	0579.9	010.9	103.0	000.0016	0342.3	035.1	32.53
260.0	000.0049	0580.6	010.7	102.6	000.0016	0334.7	035.2	32.28
261.0	000.0047	0582.1	010.6	102.3	000.0016	0327.4	035.3	32.04
262.0	000.0045	0583.4	010.4	101.9	000.0016	0319.7	035.3	31.79
263.0	000.0043	0584.5	010.3	101.6	000.0016	0311.6	035.4	31.52
264.0	000.0041	0584.8	010.1	101.2	000.0016	0303.2	035.5	31.23
265.0	000.0039	0585.2	010.0	100.9	000.0016	0294.6	035.6	30.93
266.0	000.0037	0591.4	009.8	100.5	000.0016	0286.1	035.7	30.63
267.0	000.0036	0599.4	009.7	100.2	000.0016	0277.1	035.8	30.32
268.0	000.0034	0608.0	009.6	99.9	000.0016	0267.2	035.8	29.97
269.0	000.0032	0612.1	009.4	99.6	000.0016	0256.4	036.0	29.56
270.0	000.0031	0614.6	009.3	99.3	000.0016	0245.3	036.1	29.13
271.0	000.0031	0617.1	009.3	99.1	000.0016	0235.8	036.0	28.81
272.0	000.0031	0619.7	009.3	98.8	000.0016	0226.0	036.0	28.44
273.0	000.0031	0625.1	009.3	98.6	000.0016	0216.0	036.0	28.04
274.0	000.0031	0631.0	009.4	98.3	000.0016	0205.9	035.9	27.61
275.0	000.0031	0634.3	009.4	98.0	000.0016	0195.6	035.9	27.16
276.0	000.0031	0632.5	009.4	97.8	000.0016	0185.4	035.9	26.70
277.0	000.0031	0630.0	009.4	97.5	000.0016	0175.3	035.9	26.23
278.0	000.0031	0627.7	009.4	97.3	000.0016	0165.2	035.9	25.73
279.0	000.0031	0624.9	009.4	97.0	000.0016	0155.2	035.9	25.18
280.0	000.0031	0619.6	009.4	96.7	000.0016	0145.4	035.9	24.62
281.0	000.0033	0613.5	009.5	96.5	000.0016	0135.2	035.8	24.08
282.0	000.0035	0606.9	009.7	96.2	000.0016	0124.7	035.6	23.50
283.0	000.0036	0602.7	009.8	95.9	000.0016	0113.4	035.5	22.82
284.0	000.0038	0600.6	010.0	95.6	000.0016	0101.7	035.4	21.94
285.0	000.0040	0598.1	010.1	95.2	000.0016	0089.6	035.3	20.87
286.0	000.0042	0595.3	010.3	94.9	000.0016	0077.1	035.2	19.61
287.0	000.0044	0591.3	010.4	94.6	000.0016	0064.2	035.1	18.15
288.0	000.0046	0586.3	010.5	94.3	000.0016	0051.0	035.0	16.36
289.0	000.0048	0580.4	010.6	93.9	000.0016	0037.4	034.9	13.83
290.0	000.0050	0573.3	010.7	93.6	000.0016	0022.6	034.9	12.27
291.0	000.0052	0566.2	010.8	93.2	000.0016	0005.9	034.8	12.30
292.0	000.0055	0557.7	010.9	92.9	000.0016	-0012.8	034.8	12.31
293.0	000.0058	0546.7	011.0	92.5	000.0016	-0032.4	034.8	12.32
294.0	000.0060	0530.8	011.1	92.2	000.0016	-0050.8	034.8	12.30
295.0	000.0063	0512.2	011.1	91.9	000.0016	-0069.1	034.8	12.29
296.0	000.0066	0494.3	011.1	91.6	000.0016	-0087.6	034.9	12.28
297.0	000.0069	0481.9	011.2	91.2	000.0016	-0107.2	034.9	12.27

298.0	000.0072	0473.3	011.3	090.9	000.0016	-0127.4	034.9	12.27
299.0	000.0076	0467.8	011.4	090.5	000.0016	-0148.2	034.9	12.27
300.0	000.0079	0467.4	011.5	090.1	000.0016	-0170.7	034.9	12.27
301.0	000.0083	0475.8	011.8	089.7	000.0016	-0198.1	034.8	12.31
302.0	000.0087	0493.4	012.0	089.1	000.0016	-0212.3	034.7	12.36
303.0	000.0091	0515.6	012.4	088.5	000.0016	-0211.5	034.5	12.42
304.0	000.0096	0536.3	012.8	087.9	000.0016	-0208.8	034.3	12.48
305.0	000.0100	0549.4	013.1	087.2	000.0016	-0205.9	034.2	12.53
306.0	000.0105	0552.3	013.3	086.7	000.0016	-0203.5	034.2	12.54
307.0	000.0110	0545.3	013.4	086.3	000.0016	-0201.7	034.2	12.51
308.0	000.0114	0527.7	013.3	086.1	000.0016	-0200.3	034.4	12.44
309.0	000.0119	0501.6	013.2	085.9	000.0016	-0198.5	034.7	12.35
310.0	000.0124	0471.5	013.1	085.8	000.0016	-0196.7	034.9	12.26
311.0	000.0131	0443.7	013.0	085.7	000.0016	-0194.7	035.2	12.17
312.0	000.0138	0423.4	012.9	085.5	000.0016	-0192.1	035.4	12.09
313.0	000.0144	0410.7	012.8	085.3	000.0016	-0187.5	035.6	12.02
314.0	000.0151	0400.5	012.9	085.0	000.0016	-0181.7	035.7	11.97
315.0	000.0159	0389.1	012.8	084.8	000.0016	-0176.2	035.9	11.90
316.0	000.0166	0375.3	012.8	084.6	000.0016	-0171.8	036.1	11.83
317.0	000.0174	0357.3	012.7	084.6	000.0016	-0170.8	036.4	11.74
318.0	000.0181	0337.8	012.4	084.7	000.0016	-0172.3	036.7	11.63
319.0	000.0189	0318.8	012.2	084.7	000.0016	-0174.4	037.0	11.53
320.0	000.0197	0302.2	012.0	084.8	000.0016	-0175.5	037.3	11.43
321.0	000.0208	0289.4	011.9	084.7	000.0016	-0174.1	037.5	11.35
322.0	000.0218	0279.6	011.9	084.6	000.0016	-0171.7	037.7	11.28
323.0	000.0229	0270.1	011.8	084.6	000.0016	-0169.6	037.9	11.21
324.0	000.0240	0259.3	011.7	084.5	000.0016	-0169.0	038.1	11.13
325.0	000.0252	0247.4	011.6	084.6	000.0016	-0169.7	038.4	11.05
326.0	000.0263	0235.5	011.4	084.6	000.0016	-0170.8	038.6	10.97
327.0	000.0275	0222.3	011.2	084.7	000.0016	-0173.7	038.9	10.88
328.0	000.0288	0207.5	011.0	084.9	000.0016	-0178.8	039.2	10.79
329.0	000.0300	0194.6	010.7	085.1	000.0016	-0182.8	039.5	10.70
330.0	000.0313	0183.3	010.5	085.2	000.0016	-0185.9	039.7	10.62
331.0	000.0329	0172.0	010.3	085.4	000.0016	-0189.1	040.0	10.54
332.0	000.0346	0158.4	010.0	085.7	000.0016	-0195.3	040.3	10.45
333.0	000.0363	0146.3	009.7	086.0	000.0016	-0199.6	040.5	10.36
334.0	000.0381	0139.0	009.6	086.1	000.0016	-0200.6	040.8	10.29
335.0	000.0399	0134.7	009.5	086.1	000.0016	-0200.4	040.9	10.24
336.0	000.0418	0131.9	009.5	086.0	000.0016	-0199.5	041.1	10.19
337.0	000.0437	0130.4	009.6	085.8	000.0016	-0197.7	041.2	10.15

Contour-to-Contour KCLM vs KSBX
Kcbx, Inc.

FMCommander Single Allocation Study - 10-27-2014 - FCC NGDC 30 Sec
KSBX's Overlaps (In= 1.55 km, Out= 10.79 km)

KSBX CH 208 A DA
Lat= 34 27 56.1, Lng= 119 40 38.0
0.05 kW 276.2 M HAAT, 664 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KCLM CH 209 B DA BLED20130612ABN
Lat= 34 54 37.0, Lng= 120 11 08.0
2.45 kW 569 M HAAT, 1005 M COR
Prot.= 60 dBu, Intef.= 54 dBu



10-27-2014

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

KSBX

KCLM BLED20130612ABN

Channel = 208A
 Max ERP = 0.05 kW
 RCAMSL = 664 M
 N. Lat. 34 27 56.1
 W. Lng. 119 40 38.0
 Protected
 60 dBu

Channel = 209B
 Max ERP = 2.45 kW
 RCAMSL = 1005 M
 N. Lat. 34 54 37.0
 W. Lng. 120 11 08.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
257.0	000.0500	0593.5	021.7	154.8	000.4496	0595.9	060.0	53.04	
258.0	000.0500	0590.1	021.6	154.7	000.4466	0595.2	059.6	53.13	
259.0	000.0500	0586.2	021.5	154.5	000.4432	0594.4	059.3	53.21	
260.0	000.0500	0581.9	021.4	154.4	000.4396	0593.3	059.0	53.28	
261.0	000.0500	0577.5	021.3	154.2	000.4357	0592.0	058.6	53.34	
262.0	000.0500	0573.1	021.2	154.0	000.4317	0590.2	058.3	53.39	
263.0	000.0500	0568.4	021.1	153.8	000.4274	0588.2	058.0	53.44	
264.0	000.0500	0562.1	021.0	153.5	000.4222	0585.5	057.7	53.46	
265.0	000.0500	0555.1	020.8	153.2	000.4167	0582.3	057.4	53.46	
266.0	000.0500	0548.2	020.7	153.0	000.4111	0578.6	057.1	53.45	
267.0	000.0500	0539.9	020.5	152.6	000.4047	0574.3	056.9	53.41	
268.0	000.0500	0530.4	020.3	152.3	000.3978	0569.6	056.6	53.35	
269.0	000.0500	0520.9	020.1	151.9	000.3920	0564.9	056.4	53.29	
270.0	000.0500	0511.2	019.8	151.6	000.3920	0560.0	056.2	53.29	
271.0	000.0500	0501.0	019.6	151.2	000.3920	0555.7	056.0	53.28	
272.0	000.0500	0489.3	019.3	150.7	000.3920	0551.7	055.9	53.26	
273.0	000.0500	0476.8	019.0	150.3	000.3920	0548.0	055.7	53.23	
274.0	000.0500	0464.4	018.7	149.9	000.3944	0544.9	055.6	53.24	
275.0	000.0500	0451.4	018.4	149.5	000.4027	0541.7	055.5	53.31	
276.0	000.0500	0441.2	018.2	149.1	000.4101	0538.7	055.4	53.37	
277.0	000.0500	0433.1	018.1	148.8	000.4169	0535.8	055.2	53.43	
278.0	000.0500	0418.4	017.8	148.3	000.4260	0531.7	055.2	53.45	
279.0	000.0500	0393.3	017.2	147.7	000.4388	0525.8	055.3	53.40	
280.0	000.0500	0360.6	016.5	146.9	000.4546	0520.6	055.5	53.34	
281.0	000.0500	0323.2	015.6	146.0	000.4733	0516.1	056.0	53.25	
282.0	000.0500	0281.2	014.5	145.1	000.4943	0511.5	056.6	53.11	
283.0	000.0500	0240.4	013.4	144.1	000.5151	0505.8	057.2	52.91	
284.0	000.0500	0202.4	012.4	143.3	000.5345	0499.4	057.9	52.67	
285.0	000.0500	0169.4	011.4	142.5	000.5523	0492.5	058.5	52.40	
286.0	000.0500	0140.5	010.3	141.7	000.5707	0484.9	059.3	52.07	
287.0	000.0500	0114.4	009.3	141.1	000.5868	0478.7	060.0	51.78	
288.0	000.0500	0089.6	008.2	140.4	000.6037	0473.1	060.8	51.46	
289.0	000.0500	0067.4	007.1	139.7	000.6223	0468.9	061.7	51.16	
290.0	000.0500	0046.7	005.9	139.1	000.6426	0467.2	062.6	50.93	
291.0	000.0500	0028.2	004.7	138.5	000.6622	0468.4	063.7	50.75	
292.0	000.0500	0010.4	004.7	138.4	000.6644	0468.8	063.6	50.79	
293.0	000.0500	-0007.4	004.7	138.3	000.6666	0469.3	063.6	50.83	
294.0	000.0500	-0025.6	004.7	138.3	000.6689	0469.8	063.5	50.87	
295.0	000.0500	-0045.6	004.7	138.2	000.6711	0470.4	063.5	50.91	
296.0	000.0500	-0065.7	004.7	138.1	000.6734	0470.9	063.5	50.95	
297.0	000.0500	-0086.4	004.7	138.1	000.6758	0471.5	063.4	50.99	
298.0	000.0500	-0102.9	004.7	138.0	000.6781	0472.0	063.4	51.03	
299.0	000.0500	-0112.9	004.7	137.9	000.6805	0472.6	063.4	51.07	
300.0	000.0500	-0113.9	004.7	137.9	000.6828	0473.2	063.4	51.10	
301.0	000.0500	-0108.3	004.7	137.8	000.6852	0473.8	063.3	51.14	
302.0	000.0500	-0099.1	004.7	137.7	000.6877	0474.5	063.3	51.19	
303.0	000.0500	-0087.4	004.7	137.7	000.6901	0475.3	063.3	51.23	
304.0	000.0500	-0073.7	004.7	137.6	000.6926	0476.1	063.3	51.27	
305.0	000.0500	-0057.0	004.7	137.5	000.6950	0477.0	063.3	51.32	
306.0	000.0500	-0040.3	004.7	137.4	000.6975	0478.1	063.2	51.37	
307.0	000.0500	-0026.5	004.7	137.4	000.7000	0479.1	063.2	51.42	
308.0	000.0500	-0016.9	004.7	137.3	000.7026	0480.2	063.2	51.47	
309.0	000.0500	-0009.3	004.7	137.2	000.7051	0481.3	063.2	51.52	
310.0	000.0500	-0001.4	004.7	137.1	000.7076	0482.4	063.2	51.56	
311.0	000.0500	0005.4	004.7	137.1	000.7102	0483.5	063.2	51.61	
312.0	000.0500	0011.1	004.7	137.0	000.7127	0484.6	063.2	51.66	
313.0	000.0500	0016.4	004.7	136.9	000.7153	0485.7	063.2	51.71	
314.0	000.0500	0023.8	004.7	136.8	000.7179	0486.9	063.2	51.76	
315.0	000.0500	0035.1	005.1	136.8	000.7201	0487.8	062.8	51.93	
316.0	000.0500	0047.0	005.9	136.7	000.7224	0488.9	061.9	52.26	
317.0	000.0500	0053.7	006.3	136.6	000.7258	0490.3	061.5	52.46	
318.0	000.0500	0052.5	006.3	136.5	000.7293	0491.7	061.6	52.49	

319.0	000.0500	0043.7	005.7	136.4	000.7322	0492.9	062.1	52.35
320.0	000.0500	0032.8	004.9	136.4	000.7339	0493.5	062.9	52.10
321.0	000.0500	0023.3	004.7	136.3	000.7361	0494.4	063.2	52.06
322.0	000.0500	0019.9	004.7	136.3	000.7388	0495.4	063.2	52.10
323.0	000.0500	0021.1	004.7	136.2	000.7414	0496.3	063.2	52.14
324.0	000.0500	0022.8	004.7	136.1	000.7440	0497.1	063.2	52.17
325.0	000.0500	0021.2	004.7	136.0	000.7466	0498.0	063.2	52.20
326.0	000.0500	0017.6	004.7	136.0	000.7492	0498.8	063.2	52.24
327.0	000.0500	0011.8	004.7	135.9	000.7518	0499.6	063.2	52.27
328.0	000.0500	0006.6	004.7	135.8	000.7544	0500.4	063.2	52.30
329.0	000.0500	0002.4	004.7	135.7	000.7570	0501.1	063.3	52.33
330.0	000.0500	-0000.2	004.7	135.7	000.7596	0501.8	063.3	52.35
331.0	000.0500	-0004.7	004.7	135.6	000.7622	0502.6	063.3	52.38
332.0	000.0500	-0011.3	004.7	135.5	000.7647	0503.3	063.3	52.41
333.0	000.0500	-0021.0	004.7	135.4	000.7673	0503.9	063.3	52.43
334.0	000.0500	-0031.9	004.7	135.4	000.7698	0504.3	063.4	52.45
335.0	000.0500	-0044.4	004.7	135.3	000.7724	0504.7	063.4	52.46
336.0	000.0500	-0057.1	004.7	135.2	000.7749	0505.1	063.4	52.48
337.0	000.0500	-0070.9	004.7	135.2	000.7774	0505.5	063.5	52.49
338.0	000.0500	-0087.1	004.7	135.1	000.7799	0505.8	063.5	52.50
339.0	000.0500	-0101.4	004.7	135.0	000.7823	0506.2	063.5	52.51
340.0	000.0500	-0112.3	004.7	135.0	000.7848	0506.5	063.5	52.52
341.0	000.0500	-0115.1	004.7	134.9	000.7872	0506.7	063.6	52.53
342.0	000.0500	-0112.7	004.7	134.8	000.7896	0506.9	063.6	52.54
343.0	000.0500	-0109.3	004.7	134.8	000.7920	0507.1	063.7	52.54
344.0	000.0500	-0108.8	004.7	134.7	000.7944	0507.3	063.7	52.55
345.0	000.0500	-0108.9	004.7	134.6	000.7968	0507.4	063.7	52.55
346.0	000.0500	-0104.9	004.7	134.6	000.7991	0507.5	063.8	52.55
347.0	000.0500	-0100.6	004.7	134.5	000.8014	0507.6	063.8	52.55
348.0	000.0500	-0094.3	004.7	134.4	000.8037	0507.7	063.9	52.55
349.0	000.0500	-0090.0	004.7	134.4	000.8059	0507.7	063.9	52.55
350.0	000.0500	-0085.5	004.7	134.3	000.8082	0507.7	064.0	52.54
351.0	000.0500	-0075.5	004.7	134.3	000.8104	0507.7	064.0	52.54
352.0	000.0500	-0060.3	004.7	134.2	000.8125	0507.7	064.1	52.53
353.0	000.0500	-0049.2	004.7	134.1	000.8147	0507.6	064.1	52.52
354.0	000.0500	-0042.4	004.7	134.1	000.8168	0507.6	064.2	52.52
355.0	000.0500	-0039.1	004.7	134.0	000.8189	0507.5	064.2	52.51
356.0	000.0500	-0033.1	004.7	134.0	000.8209	0507.4	064.3	52.50
357.0	000.0500	-0031.4	004.7	133.9	000.8229	0507.3	064.3	52.49
358.0	000.0500	-0027.0	004.7	133.9	000.8249	0507.2	064.4	52.47
359.0	000.0500	-0025.1	004.7	133.8	000.8269	0507.1	064.4	52.46
000.0	000.0500	-0023.2	004.7	133.8	000.8288	0507.0	064.5	52.45
001.0	000.0479	-0018.1	004.7	133.8	000.8293	0506.9	064.6	52.42
002.0	000.0460	0000.9	004.6	133.7	000.8299	0506.9	064.7	52.39
003.0	000.0440	0023.6	004.5	133.7	000.8302	0506.9	064.8	52.36
004.0	000.0421	0039.3	005.2	133.3	000.8481	0505.7	064.4	52.54
005.0	000.0403	0030.6	004.5	133.7	000.8320	0506.8	064.9	52.31
006.0	000.0385	0017.0	004.4	133.7	000.8313	0506.9	065.1	52.27
007.0	000.0367	0003.1	004.3	133.7	000.8316	0506.8	065.1	52.24
008.0	000.0349	-0014.2	004.3	133.7	000.8317	0506.8	065.2	52.21
009.0	000.0333	-0032.1	004.2	133.7	000.8317	0506.8	065.3	52.18
010.0	000.0316	-0041.3	004.2	133.7	000.8316	0506.8	065.4	52.15
011.0	000.0303	-0038.4	004.1	133.7	000.8317	0506.8	065.5	52.12
012.0	000.0290	-0028.5	004.1	133.7	000.8317	0506.8	065.6	52.09
013.0	000.0278	-0024.1	004.1	133.7	000.8316	0506.8	065.7	52.06
014.0	000.0266	-0026.9	004.0	133.7	000.8315	0506.9	065.8	52.03
015.0	000.0255	-0032.6	004.0	133.7	000.8314	0506.9	065.8	52.00
016.0	000.0243	-0035.6	003.9	133.7	000.8312	0506.9	065.9	51.97

10-27-2014 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KCLM BLED20130612ABN

KSBX

Channel = 209B
Max ERP = 2.45 kW
RCAMSL = 1005 M
N. Lat. 34 54 37.0
W. Lng. 120 11 08.0
Protected
60 dBu

Channel = 208A
Max ERP = 0.05 kW
RCAMSL = 664 M
N. Lat. 34 27 56.1
W. Lng. 119 40 38.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)

077.0	002.4500	0389.1	042.8	355.5	000.0500	-0035.6	059.2	20.97	

078.0	002.4500	0394.3	043.0	355.9	000.0500	-0033.7	058.4	21.12
079.0	002.4500	0400.4	043.3	356.2	000.0500	-0032.2	057.7	21.27
080.0	002.4500	0406.7	043.6	356.6	000.0500	-0031.5	057.0	21.42
081.0	002.4500	0411.5	043.8	356.9	000.0500	-0031.4	056.3	21.57
082.0	002.4500	0415.9	044.1	357.2	000.0500	-0031.3	055.5	21.73
083.0	002.4500	0421.6	044.3	357.6	000.0500	-0029.3	054.8	21.89
084.0	002.4500	0430.6	044.8	358.1	000.0500	-0026.8	054.0	22.05
085.0	002.4500	0439.6	045.2	358.6	000.0500	-0025.8	053.3	22.22
086.0	002.4500	0447.8	045.6	359.1	000.0500	-0024.9	052.5	22.38
087.0	002.4500	0456.4	046.1	359.7	000.0500	-0023.9	051.7	22.55
088.0	002.4500	0466.3	046.6	000.3	000.0495	-0022.7	050.9	22.68
089.0	002.4500	0476.4	047.1	000.9	000.0481	-0020.0	050.1	22.73
090.0	002.4500	0486.6	047.7	001.5	000.0469	-0008.7	049.3	22.79
091.0	002.4500	0495.3	048.1	002.1	000.0458	0003.5	048.5	22.87
092.0	002.4500	0482.2	047.4	001.3	000.0474	-0013.6	047.7	23.20
093.0	002.4500	0465.3	046.5	000.1	000.0497	-0022.9	046.9	23.59
094.0	002.4500	0447.8	045.6	359.0	000.0500	-0025.2	046.2	23.79
095.0	002.4500	0423.0	044.4	357.3	000.0500	-0031.1	045.5	23.95
096.0	002.4500	0395.0	043.1	355.5	000.0500	-0035.9	045.0	24.09
097.0	002.4500	0370.5	041.9	353.9	000.0500	-0043.1	044.5	24.21
098.0	002.4500	0352.2	041.0	352.5	000.0500	-0054.4	044.0	24.34
099.0	002.4500	0348.9	040.8	352.0	000.0500	-0060.5	043.4	24.51
100.0	002.4500	0351.8	041.0	351.9	000.0500	-0061.9	042.7	24.72
101.0	002.4500	0360.2	041.4	352.1	000.0500	-0058.6	041.8	24.96
102.0	002.4500	0371.9	042.0	352.5	000.0500	-0053.6	041.0	25.22
103.0	002.4500	0382.2	042.5	352.8	000.0500	-0050.9	040.1	25.49
104.0	002.4500	0394.8	043.1	353.2	000.0500	-0047.3	039.2	25.77
105.0	002.4500	0404.6	043.5	353.4	000.0500	-0045.7	038.3	26.06
106.0	002.4500	0418.4	044.2	354.0	000.0500	-0042.7	037.4	26.38
107.0	002.4500	0431.8	044.8	354.4	000.0500	-0041.3	036.4	26.72
108.0	002.4500	0445.5	045.5	354.9	000.0500	-0039.5	035.4	27.08
109.0	002.4500	0460.1	046.3	355.5	000.0500	-0035.5	034.4	27.45
110.0	002.4500	0471.0	046.8	355.9	000.0500	-0033.7	033.4	27.82
111.0	002.3506	0478.5	046.9	355.3	000.0500	-0037.2	032.7	28.10
112.0	002.2532	0481.9	046.6	354.3	000.0500	-0041.5	032.0	28.34
113.0	002.1579	0485.8	046.4	353.3	000.0500	-0047.0	031.4	28.60
114.0	002.0647	0493.9	046.5	352.5	000.0500	-0053.9	030.7	28.90
115.0	001.9735	0504.4	046.6	351.9	000.0500	-0061.8	030.0	29.26
116.0	001.8844	0513.2	046.6	351.1	000.0500	-0074.6	029.3	29.61
117.0	001.7973	0520.6	046.6	350.0	000.0500	-0085.3	028.6	29.94
118.0	001.7123	0525.8	046.4	348.7	000.0500	-0090.9	028.1	30.23
119.0	001.6293	0528.1	046.0	347.1	000.0500	-0100.0	027.7	30.45
120.0	001.5485	0525.7	045.4	345.1	000.0500	-0108.7	027.6	30.54
121.0	001.4852	0520.1	044.8	342.9	000.0500	-0109.8	027.5	30.57
122.0	001.4233	0512.3	044.0	340.6	000.0500	-0115.1	027.6	30.51
123.0	001.3627	0505.1	043.2	338.4	000.0500	-0093.8	027.8	30.43
124.0	001.3035	0497.9	042.5	336.3	000.0500	-0061.3	028.0	30.31
125.0	001.2455	0490.4	041.7	334.3	000.0500	-0035.0	028.2	30.16
126.0	001.1889	0482.9	041.0	332.3	000.0500	-0013.7	028.6	29.97
127.0	001.1335	0479.2	040.4	330.5	000.0500	-0002.1	028.8	29.85
128.0	001.0795	0479.9	040.0	328.9	000.0500	0002.6	028.9	29.80
129.0	001.0269	0483.8	039.8	327.4	000.0500	0009.4	028.9	29.80
130.0	000.9755	0489.4	039.6	326.0	000.0500	0017.5	028.9	29.81
131.0	000.9354	0496.0	039.5	324.7	000.0500	0022.1	028.8	29.87
132.0	000.8962	0501.4	039.4	323.3	000.0500	0021.6	028.7	29.88
133.0	000.8578	0505.0	039.2	321.9	000.0500	0020.0	028.8	29.83
134.0	000.8202	0507.4	038.9	320.4	000.0500	0028.3	029.0	29.74
135.0	000.7835	0506.3	038.5	319.1	000.0500	0043.2	029.4	32.42
136.0	000.7476	0498.3	037.7	317.7	000.0500	0053.7	030.1	33.95
137.0	000.7126	0484.5	036.8	316.5	000.0500	0050.8	031.1	32.98
138.0	000.6784	0472.1	035.8	315.4	000.0500	0039.8	032.1	30.47
139.0	000.6450	0467.2	035.2	314.4	000.0500	0027.8	032.7	28.08
140.0	000.6125	0470.6	034.9	313.4	000.0500	0018.7	033.1	27.95
141.0	000.5882	0478.2	034.9	312.3	000.0500	0012.7	033.2	27.91
142.0	000.5645	0487.5	034.9	311.3	000.0500	0006.9	033.2	27.88
143.0	000.5412	0496.9	035.0	310.2	000.0500	0000.2	033.3	27.85
144.0	000.5184	0504.8	035.0	309.2	000.0500	-0007.5	033.5	27.78
145.0	000.4961	0511.0	034.8	308.3	000.0500	-0014.8	033.8	27.68
146.0	000.4743	0515.9	034.7	307.4	000.0500	-0022.4	034.1	27.55
147.0	000.4530	0521.1	034.5	306.5	000.0500	-0032.5	034.5	27.41
148.0	000.4322	0528.9	034.4	305.7	000.0500	-0045.7	034.8	27.31
149.0	000.4118	0538.0	034.4	304.8	000.0500	-0060.9	035.0	27.21
150.0	000.3920	0545.8	034.3	304.0	000.0500	-0074.2	035.4	27.08
151.0	000.3920	0554.0	034.6	302.9	000.0500	-0088.9	035.4	27.08
152.0	000.3920	0565.7	035.0	301.7	000.0500	-0102.5	035.3	27.11
153.0	000.4118	0579.1	035.9	300.1	000.0500	-0113.7	034.9	27.26
154.0	000.4322	0590.4	036.7	298.5	000.0500	-0108.6	034.6	27.37
155.0	000.4530	0596.4	037.3	297.0	000.0500	-0086.4	034.5	27.40
156.0	000.4743	0598.7	037.8	295.7	000.0500	-0058.6	034.6	27.38

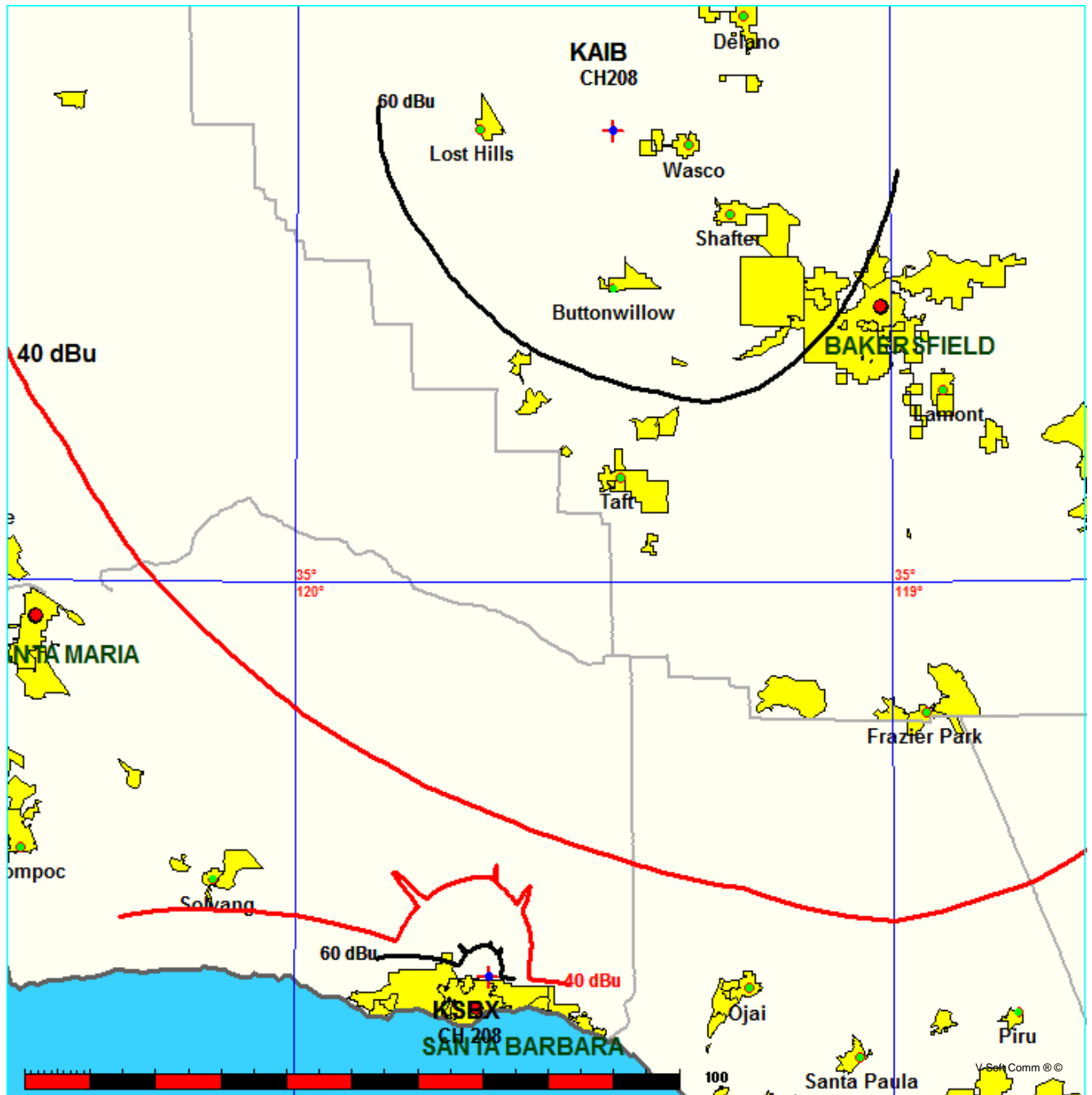
157.0	000.4961	0602.4	038.3	294.3	000.0500	-0030.9	034.6	27.36
158.0	000.5184	0611.1	039.0	292.7	000.0500	-0001.9	034.6	27.37
159.0	000.5412	0621.2	039.7	291.0	000.0500	0027.4	034.6	27.36
160.0	000.5645	0628.3	040.3	289.5	000.0500	0056.4	034.8	32.27
161.0	000.5938	0632.2	040.9	288.0	000.0500	0088.5	034.9	35.89
162.0	000.6238	0635.0	041.4	286.6	000.0500	0123.7	035.2	38.63
163.0	000.6546	0638.3	042.0	285.2	000.0500	0162.0	035.5	40.72
164.0	000.6861	0642.1	042.6	283.9	000.0500	0207.6	035.9	42.70
165.0	000.7184	0646.9	043.1	282.5	000.0500	0261.8	036.2	44.59
166.0	000.7514	0653.3	043.8	281.0	000.0500	0321.4	036.6	46.21
167.0	000.7851	0660.7	044.5	279.6	000.0500	0373.9	037.1	47.49
168.0	000.8196	0667.6	045.1	278.3	000.0500	0413.2	037.6	48.29
169.0	000.8549	0673.0	045.7	277.0	000.0500	0432.8	038.1	48.51
170.0	000.8908	0677.5	046.2	275.9	000.0500	0442.0	038.8	48.45
171.0	000.9375	0681.6	046.9	274.7	000.0500	0455.0	039.4	48.45
172.0	000.9854	0686.9	047.5	273.5	000.0500	0470.5	040.0	48.49
173.0	001.0345	0691.5	048.2	272.4	000.0500	0484.1	040.8	48.47
174.0	001.0848	0693.7	048.7	271.5	000.0500	0495.2	041.5	48.38
175.0	001.1362	0694.6	049.2	270.7	000.0500	0504.1	042.3	48.24
176.0	001.1889	0695.2	049.7	270.0	000.0500	0511.2	043.1	48.05
177.0	001.2427	0697.3	050.2	269.3	000.0500	0518.1	044.0	47.86
178.0	001.2977	0699.1	050.6	268.6	000.0500	0524.3	044.8	47.66
179.0	001.3540	0701.1	051.1	268.0	000.0500	0530.0	045.7	47.44
180.0	001.4114	0701.1	051.5	267.6	000.0500	0534.4	046.6	47.19
181.0	001.4852	0700.8	052.0	267.1	000.0500	0539.3	047.6	46.96
182.0	001.5610	0700.5	052.5	266.6	000.0500	0543.5	048.5	46.71
183.0	001.6386	0700.9	053.0	266.2	000.0500	0547.0	049.5	46.44
184.0	001.7180	0703.4	053.5	265.7	000.0500	0550.5	050.5	46.16
185.0	001.7994	0705.1	054.0	265.3	000.0500	0553.1	051.5	45.85
186.0	001.8826	0705.3	054.4	265.0	000.0500	0555.0	052.5	45.54
187.0	001.9678	0704.1	054.8	264.8	000.0500	0556.4	053.5	45.21
188.0	002.0548	0702.2	055.2	264.7	000.0500	0557.4	054.5	44.88
189.0	002.1437	0702.8	055.6	264.5	000.0500	0558.7	055.6	44.54
190.0	002.2345	0705.1	056.1	264.3	000.0500	0560.2	056.6	44.19
191.0	002.3410	0708.4	056.7	264.0	000.0500	0561.9	057.8	43.84
192.0	002.4500	0710.0	057.2	263.9	000.0500	0563.1	058.8	43.48
193.0	002.4500	0709.9	057.2	264.2	000.0500	0560.9	059.8	43.12
194.0	002.4500	0708.1	057.1	264.5	000.0500	0558.3	060.7	42.77
195.0	002.4500	0706.2	057.0	264.9	000.0500	0555.7	061.6	42.41
196.0	002.4500	0705.1	057.0	265.3	000.0500	0553.3	062.5	42.05

Contour-to-Contour KAIB vs KSBX
Kcbx, Inc.

FMCommander Single Allocation Study - 10-27-2014 - FCC NGDC 30 Sec
KSBX's Overlaps (In= 18.54 km, Out= 78.16 km)

KSBX CH 208 A DA
Lat= 34 27 56.1, Lng= 119 40 38.0
0.05 kW 276.2 M HAAT, 664 M COR
Prot.= 60 dBu, Intef.= 40 dBu

KAIB CH 208 B DA BLED20061030AAY
Lat= 35 36 53.0, Lng= 119 28 16.0
50.0 kW 109 M HAAT, 188 M COR
Prot.= 60 dBu, Intef.= 40 dBu



10-27-2014

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

KSBX

KAIB BLED20061030AAY

Channel = 208A

Max ERP = 0.05 kW

RCAMSL = 664 M

N. Lat. 34 27 56.1

W. Lng. 119 40 38.0

Protected

60 dBu

Channel = 208B

Max ERP = 50 kW

RCAMSL = 188 M

N. Lat. 35 36 53.0

W. Lng. 119 28 16.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
308.0	000.0500	-0016.9	004.7	190.3	016.3446	0102.8	126.9	35.92	
309.0	000.0500	-0009.3	004.7	190.2	016.3495	0102.8	126.8	35.94	
310.0	000.0500	-0001.4	004.7	190.2	016.3545	0102.8	126.7	35.95	
311.0	000.0500	0005.4	004.7	190.2	016.3596	0102.8	126.6	35.96	
312.0	000.0500	0011.1	004.7	190.2	016.3650	0102.8	126.6	35.98	
313.0	000.0500	0016.4	004.7	190.2	016.3704	0102.8	126.5	35.99	
314.0	000.0500	0023.8	004.7	190.1	016.3761	0102.8	126.4	36.01	
315.0	000.0500	0035.1	005.1	190.3	016.3423	0102.8	126.2	36.05	
316.0	000.0500	0047.0	005.9	190.5	016.2656	0102.8	125.6	36.13	
317.0	000.0500	0053.7	006.3	190.7	016.2310	0102.9	125.3	36.18	
318.0	000.0500	0052.5	006.3	190.6	016.2467	0102.9	125.2	36.19	
319.0	000.0500	0043.7	005.7	190.4	016.3094	0102.8	125.5	36.16	
320.0	000.0500	0032.8	004.9	190.1	016.3929	0102.7	125.9	36.11	
321.0	000.0500	0023.3	004.7	190.0	016.4213	0102.7	126.0	36.10	
322.0	000.0500	0019.9	004.7	190.0	016.4313	0102.7	125.9	36.11	
323.0	000.0500	0021.1	004.7	189.9	016.4415	0102.7	125.9	36.13	
324.0	000.0500	0022.8	004.7	189.9	016.4519	0102.7	125.8	36.14	
325.0	000.0500	0021.2	004.7	189.9	016.4624	0102.7	125.7	36.15	
326.0	000.0500	0017.6	004.7	189.9	016.4732	0102.7	125.7	36.16	
327.0	000.0500	0011.8	004.7	189.8	016.4842	0102.7	125.6	36.18	
328.0	000.0500	0006.6	004.7	189.8	016.4954	0102.7	125.6	36.19	
329.0	000.0500	0002.4	004.7	189.8	016.5067	0102.7	125.5	36.20	
330.0	000.0500	-0000.2	004.7	189.7	016.5183	0102.7	125.5	36.22	
331.0	000.0500	-0004.7	004.7	189.7	016.5300	0102.7	125.4	36.23	
332.0	000.0500	-0011.3	004.7	189.7	016.5419	0102.7	125.4	36.24	
333.0	000.0500	-0021.0	004.7	189.7	016.5540	0102.7	125.3	36.25	
334.0	000.0500	-0031.9	004.7	189.6	016.5662	0102.7	125.3	36.26	
335.0	000.0500	-0044.4	004.7	189.6	016.5786	0102.7	125.2	36.27	
336.0	000.0500	-0057.1	004.7	189.6	016.5912	0102.7	125.2	36.29	
337.0	000.0500	-0070.9	004.7	189.5	016.6039	0102.6	125.1	36.30	
338.0	000.0500	-0087.1	004.7	189.5	016.6168	0102.6	125.1	36.31	
339.0	000.0500	-0101.4	004.7	189.5	016.6299	0102.6	125.0	36.32	
340.0	000.0500	-0112.3	004.7	189.4	016.6431	0102.6	125.0	36.33	
341.0	000.0500	-0115.1	004.7	189.4	016.6564	0102.6	125.0	36.34	
342.0	000.0500	-0112.7	004.7	189.4	016.6699	0102.6	124.9	36.35	
343.0	000.0500	-0109.3	004.7	189.3	016.6835	0102.6	124.9	36.36	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
344.0	000.0500	-0108.8	004.7	189.3	016.6972	0102.6	124.9	36.37
345.0	000.0500	-0108.9	004.7	189.3	016.7111	0102.6	124.8	36.38
346.0	000.0500	-0104.9	004.7	189.2	016.7251	0102.6	124.8	36.39
347.0	000.0500	-0100.6	004.7	189.2	016.7392	0102.6	124.8	36.40
348.0	000.0500	-0094.3	004.7	189.2	016.7534	0102.6	124.7	36.41
349.0	000.0500	-0090.0	004.7	189.1	016.7677	0102.6	124.7	36.41
350.0	000.0500	-0085.5	004.7	189.1	016.7822	0102.6	124.7	36.42
351.0	000.0500	-0075.5	004.7	189.1	016.7967	0102.6	124.6	36.43
352.0	000.0500	-0060.3	004.7	189.0	016.8113	0102.6	124.6	36.44
353.0	000.0500	-0049.2	004.7	189.0	016.8261	0102.6	124.6	36.45
354.0	000.0500	-0042.4	004.7	188.9	016.8409	0102.5	124.6	36.45
355.0	000.0500	-0039.1	004.7	188.9	016.8558	0102.5	124.6	36.46
356.0	000.0500	-0033.1	004.7	188.9	016.8707	0102.5	124.5	36.47
357.0	000.0500	-0031.4	004.7	188.8	016.8857	0102.5	124.5	36.47
358.0	000.0500	-0027.0	004.7	188.8	016.9008	0102.5	124.5	36.48
359.0	000.0500	-0025.1	004.7	188.8	016.9160	0102.5	124.5	36.49
000.0	000.0500	-0023.2	004.7	188.7	016.9312	0102.5	124.5	36.49
001.0	000.0479	-0018.1	004.7	188.7	016.9478	0102.5	124.5	36.49
002.0	000.0460	0000.9	004.6	188.6	016.9640	0102.5	124.6	36.49
003.0	000.0440	0023.6	004.5	188.6	016.9800	0102.5	124.6	36.48
004.0	000.0421	0039.3	005.2	188.6	016.9856	0102.5	124.0	36.59
005.0	000.0403	0030.6	004.5	188.5	017.0104	0102.5	124.7	36.48
006.0	000.0385	0017.0	004.4	188.5	017.0258	0102.5	124.7	36.47
007.0	000.0367	0003.1	004.3	188.5	017.0404	0102.5	124.8	36.46
008.0	000.0349	-0014.2	004.3	188.4	017.0547	0102.5	124.8	36.46
009.0	000.0333	-0032.1	004.2	188.4	017.0686	0102.5	124.9	36.45
010.0	000.0316	-0041.3	004.2	188.4	017.0822	0102.4	124.9	36.45
011.0	000.0303	-0038.4	004.1	188.3	017.0955	0102.4	125.0	36.44
012.0	000.0290	-0028.5	004.1	188.3	017.1085	0102.4	125.0	36.44
013.0	000.0278	-0024.1	004.1	188.3	017.1211	0102.4	125.1	36.43
014.0	000.0266	-0026.9	004.0	188.2	017.1335	0102.4	125.1	36.42
015.0	000.0255	-0032.6	004.0	188.2	017.1456	0102.4	125.2	36.42
016.0	000.0243	-0035.6	003.9	188.2	017.1573	0102.4	125.2	36.41
017.0	000.0232	-0035.0	003.9	188.1	017.1687	0102.4	125.3	36.40
018.0	000.0221	-0030.8	003.8	188.1	017.1798	0102.4	125.4	36.40
019.0	000.0210	-0021.7	003.8	188.1	017.1905	0102.4	125.4	36.39
020.0	000.0200	-0006.0	003.7	188.1	017.2008	0102.4	125.5	36.38
021.0	000.0192	0010.7	003.7	188.0	017.2111	0102.4	125.5	36.37
022.0	000.0184	0025.9	003.7	188.0	017.2211	0102.4	125.6	36.37
023.0	000.0176	0038.7	004.1	187.9	017.2545	0102.4	125.2	36.45
024.0	000.0168	0048.1	004.6	187.8	017.2927	0102.4	124.7	36.54
025.0	000.0161	0051.8	004.7	187.8	017.3155	0102.3	124.6	36.56
026.0	000.0153	0049.8	004.6	187.8	017.3205	0102.3	124.8	36.53
027.0	000.0146	0042.3	004.1	187.8	017.3068	0102.4	125.2	36.45
028.0	000.0139	0033.5	003.6	187.9	017.2858	0102.4	125.7	36.35
029.0	000.0133	0024.9	003.4	187.9	017.2818	0102.4	126.0	36.31
030.0	000.0126	0016.0	003.3	187.9	017.2891	0102.4	126.0	36.30
031.0	000.0121	0007.7	003.3	187.8	017.2968	0102.4	126.1	36.29
032.0	000.0116	0001.1	003.3	187.8	017.3038	0102.4	126.1	36.29
033.0	000.0111	-0006.5	003.2	187.8	017.3108	0102.4	126.2	36.28
034.0	000.0106	-0016.5	003.2	187.8	017.3174	0102.3	126.3	36.27

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
035.0	000.0101	-0027.2	003.2	187.8	017.3234	0102.3	126.3	36.26
036.0	000.0097	-0037.0	003.1	187.8	017.3293	0102.3	126.4	36.25
037.0	000.0092	-0047.1	003.1	187.7	017.3348	0102.3	126.4	36.24
038.0	000.0088	-0058.5	003.1	187.7	017.3400	0102.3	126.5	36.23
039.0	000.0084	-0071.6	003.0	187.7	017.3443	0102.3	126.6	36.22
040.0	000.0080	-0080.1	003.0	187.7	017.3494	0102.3	126.6	36.21
041.0	000.0076	-0080.6	002.9	187.7	017.3549	0102.3	126.7	36.21
042.0	000.0073	-0077.2	002.9	187.7	017.3601	0102.3	126.7	36.20
043.0	000.0070	-0072.8	002.9	187.7	017.3646	0102.3	126.8	36.19
044.0	000.0067	-0067.0	002.9	187.7	017.3692	0102.3	126.8	36.18
045.0	000.0064	-0059.1	002.8	187.6	017.3735	0102.3	126.9	36.17
046.0	000.0061	-0049.5	002.8	187.6	017.3775	0102.3	126.9	36.16
047.0	000.0058	-0041.4	002.8	187.6	017.3811	0102.3	127.0	36.16
048.0	000.0055	-0035.2	002.7	187.6	017.3839	0102.3	127.0	36.15
049.0	000.0053	-0030.2	002.7	187.6	017.3869	0102.3	127.1	36.14
050.0	000.0050	-0024.7	002.7	187.6	017.3895	0102.3	127.1	36.13
051.0	000.0048	-0018.7	002.7	187.6	017.3922	0102.3	127.2	36.12
052.0	000.0046	-0014.0	002.6	187.6	017.3952	0102.3	127.2	36.11
053.0	000.0044	-0013.3	002.6	187.6	017.3973	0102.3	127.3	36.10
054.0	000.0042	-0018.1	002.6	187.6	017.3997	0102.3	127.3	36.09
055.0	000.0040	-0026.3	002.5	187.6	017.4012	0102.3	127.4	36.08
056.0	000.0038	-0034.8	002.5	187.6	017.4023	0102.3	127.5	36.07
057.0	000.0037	-0044.3	002.5	187.6	017.4041	0102.3	127.5	36.06
058.0	000.0035	-0057.2	002.5	187.6	017.4053	0102.3	127.6	36.06
059.0	000.0033	-0073.3	002.4	187.6	017.4067	0102.3	127.6	36.05
060.0	000.0032	-0088.8	002.4	187.6	017.4073	0102.3	127.7	36.04
061.0	000.0030	-0102.2	002.4	187.6	017.4088	0102.3	127.7	36.03
062.0	000.0029	-0112.3	002.4	187.6	017.4100	0102.3	127.7	36.02
063.0	000.0028	-0119.8	002.3	187.6	017.4110	0102.3	127.8	36.01
064.0	000.0027	-0126.9	002.3	187.6	017.4117	0102.3	127.8	36.00
065.0	000.0025	-0131.7	002.3	187.6	017.4114	0102.3	127.9	36.00
066.0	000.0024	-0132.8	002.3	187.6	017.4116	0102.3	127.9	35.99
067.0	000.0023	-0129.2	002.2	187.6	017.4114	0102.3	128.0	35.98

10-27-2014

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

KAIB BLED20061030AAY

KSBX

Channel = 208B

Max ERP = 50 kW

RCAMSL = 188 M

N. Lat. 35 36 53.0

W. Lng. 119 28 16.0

Protected

60 dBu

Channel = 208A

Max ERP = 0.05 kW

RCAMSL = 664 M

N. Lat. 34 27 56.1

W. Lng. 119 40 38.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
128.0	050.0000	0098.3	044.5	028.1	000.0139	0032.3	113.9	04.76	
129.0	050.0000	0098.6	044.5	028.1	000.0139	0032.7	113.2	04.94	
130.0	050.0000	0098.8	044.6	028.0	000.0139	0033.2	112.4	05.13	
131.0	050.0000	0099.1	044.6	028.0	000.0140	0033.7	111.6	05.32	
132.0	050.0000	0099.4	044.6	027.9	000.0140	0034.4	110.9	05.51	
133.0	050.0000	0099.6	044.7	027.8	000.0141	0035.1	110.1	05.72	
134.0	050.0000	0099.9	044.7	027.7	000.0141	0035.9	109.3	05.92	
135.0	050.0000	0100.1	044.8	027.6	000.0142	0036.8	108.6	06.13	
136.0	050.0000	0100.2	044.8	027.5	000.0143	0037.7	107.8	06.35	
137.0	050.0000	0100.3	044.8	027.4	000.0144	0038.8	107.1	06.57	
138.0	050.0000	0100.4	044.8	027.3	000.0145	0040.0	106.3	06.79	
139.0	050.0000	0100.6	044.9	027.1	000.0146	0041.3	105.6	07.02	
140.0	050.0000	0100.7	044.9	027.0	000.0147	0042.5	104.9	07.25	
141.0	049.9300	0100.9	044.9	026.8	000.0148	0043.9	104.1	07.48	
142.0	049.8601	0101.1	044.9	026.6	000.0149	0045.3	103.4	07.71	
143.0	049.7902	0101.3	044.9	026.5	000.0150	0046.8	102.7	07.94	
144.0	049.7204	0101.5	045.0	026.3	000.0152	0048.2	102.0	08.18	
145.0	049.6506	0101.6	045.0	026.1	000.0153	0049.4	101.3	08.41	
146.0	049.5809	0101.8	045.0	025.9	000.0154	0050.5	100.6	08.63	
147.0	049.5112	0102.0	045.0	025.6	000.0156	0051.2	099.9	08.83	
148.0	049.4416	0102.1	045.0	025.4	000.0158	0051.7	099.2	09.04	
149.0	049.3720	0102.2	045.0	025.2	000.0160	0051.9	098.6	09.23	
150.0	049.3024	0102.3	045.0	024.9	000.0161	0051.8	097.9	09.41	
151.0	048.5704	0102.3	044.9	024.6	000.0164	0050.9	097.4	09.56	
152.0	047.8438	0102.3	044.8	024.2	000.0166	0049.5	096.8	09.68	
153.0	047.1226	0102.3	044.6	023.9	000.0169	0047.3	096.3	09.76	
154.0	046.4070	0102.4	044.5	023.5	000.0172	0044.3	095.8	09.81	
155.0	045.6968	0102.5	044.4	023.2	000.0174	0040.6	095.2	09.83	
156.0	044.9921	0102.6	044.3	022.8	000.0177	0036.5	094.7	09.81	
157.0	044.2929	0102.7	044.2	022.4	000.0180	0031.8	094.3	09.78	
158.0	043.5991	0102.7	044.1	022.0	000.0183	0026.6	093.8	09.86	
159.0	042.9108	0102.6	043.9	021.6	000.0186	0020.9	093.4	10.02	
160.0	042.2281	0102.6	043.8	021.2	000.0190	0014.7	093.0	10.18	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
161.0	040.6081	0102.5	043.4	020.8	000.0194	0006.6	092.7	10.32
162.0	039.0198	0102.5	043.1	020.3	000.0198	-0001.6	092.5	10.45
163.0	037.4632	0102.5	042.8	019.8	000.0202	-0010.0	092.3	10.59
164.0	035.9382	0102.4	042.4	019.3	000.0207	-0018.1	092.2	10.73
165.0	034.4450	0102.4	042.1	018.8	000.0213	-0024.6	092.1	10.87
166.0	032.9834	0102.4	041.7	018.3	000.0218	-0029.2	092.0	11.00
167.0	031.5536	0102.3	041.3	017.7	000.0224	-0032.1	091.9	11.13
168.0	030.1554	0102.3	041.0	017.2	000.0229	-0034.3	091.9	11.24
169.0	028.7889	0102.3	040.6	016.7	000.0235	-0035.6	091.8	11.34
170.0	027.4540	0102.3	040.2	016.2	000.0240	-0035.8	091.9	11.44
171.0	026.7327	0102.2	040.0	015.8	000.0245	-0035.2	091.8	11.55
172.0	026.0209	0102.2	039.8	015.3	000.0251	-0034.0	091.7	11.67
173.0	025.3187	0102.2	039.5	014.9	000.0256	-0031.9	091.6	11.77
174.0	024.6262	0102.2	039.3	014.4	000.0261	-0029.4	091.6	11.87
175.0	023.9432	0102.2	039.1	014.0	000.0267	-0026.8	091.6	11.96
176.0	023.2698	0102.2	038.9	013.5	000.0272	-0024.9	091.6	12.04
177.0	022.6061	0102.2	038.6	013.1	000.0277	-0024.1	091.6	12.12
178.0	021.9519	0102.2	038.4	012.6	000.0283	-0024.6	091.6	12.19
179.0	021.3074	0102.2	038.2	012.2	000.0288	-0026.8	091.7	12.26
180.0	020.6725	0102.2	037.9	011.8	000.0293	-0030.9	091.8	12.32
181.0	020.2248	0102.2	037.8	011.3	000.0299	-0035.4	091.8	12.40
182.0	019.7821	0102.2	037.6	010.9	000.0304	-0039.0	091.9	12.46
183.0	019.3442	0102.2	037.4	010.5	000.0310	-0040.9	092.0	12.52
184.0	018.9113	0102.2	037.2	010.1	000.0315	-0041.4	092.1	12.58
185.0	018.4832	0102.2	037.0	009.7	000.0322	-0040.2	092.2	12.64
186.0	018.0601	0102.2	036.9	009.3	000.0329	-0036.2	092.3	12.71
187.0	017.6418	0102.2	036.7	008.9	000.0335	-0029.5	092.5	12.76
188.0	017.2285	0102.4	036.5	008.5	000.0342	-0022.4	092.6	12.82
189.0	016.8200	0102.6	036.4	008.1	000.0348	-0015.4	092.8	12.87
190.0	016.4165	0102.7	036.2	007.7	000.0355	-0008.1	093.0	12.91
191.0	016.1426	0103.0	036.1	007.3	000.0362	-0001.5	093.1	12.97
192.0	015.8710	0103.3	036.0	006.9	000.0369	0004.5	093.2	13.02
193.0	015.6017	0103.5	035.9	006.5	000.0375	0010.0	093.4	13.07
194.0	015.3347	0103.8	035.8	006.2	000.0382	0014.9	093.5	13.11
195.0	015.0701	0104.1	035.7	005.8	000.0388	0019.8	093.7	13.15
196.0	014.8077	0104.4	035.6	005.4	000.0395	0024.7	093.9	13.18
197.0	014.5476	0104.6	035.5	005.1	000.0402	0029.7	094.1	13.21
198.0	014.2899	0104.7	035.4	004.7	000.0408	0034.2	094.4	13.41
199.0	014.0344	0104.8	035.3	004.4	000.0415	0037.4	094.7	13.56
200.0	013.7812	0104.8	035.1	004.0	000.0421	0039.3	095.0	13.65
201.0	013.6503	0104.8	035.1	003.7	000.0427	0037.8	095.2	13.59
202.0	013.5200	0104.7	035.0	003.4	000.0433	0031.6	095.5	13.33
203.0	013.3903	0104.4	034.9	003.0	000.0439	0024.5	095.8	13.26
204.0	013.2612	0104.1	034.7	002.7	000.0445	0017.4	096.1	13.25
205.0	013.1328	0103.7	034.6	002.4	000.0451	0010.4	096.5	13.24
206.0	013.0050	0103.5	034.5	002.1	000.0457	0003.5	096.8	13.23
207.0	012.8778	0103.5	034.4	001.8	000.0463	-0003.1	097.1	13.22
208.0	012.7512	0103.4	034.3	001.5	000.0469	-0009.2	097.5	13.21
209.0	012.6253	0103.2	034.2	001.2	000.0475	-0014.1	097.9	13.18
210.0	012.5000	0102.7	034.0	001.0	000.0480	-0018.5	098.3	13.15
211.0	012.3853	0102.2	033.9	000.7	000.0485	-0021.7	098.7	13.11

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
212.0	012.2711	0101.7	033.7	000.5	000.0490	-0022.2	099.1	13.07
213.0	012.1574	0101.3	033.6	000.2	000.0495	-0022.7	099.6	13.03
214.0	012.0442	0101.0	033.5	360.0	000.0500	-0023.2	100.0	12.98
215.0	011.9316	0101.0	033.4	359.7	000.0500	-0023.7	100.4	12.90
216.0	011.8195	0101.1	033.3	359.5	000.0500	-0024.2	100.8	12.82
217.0	011.7080	0101.4	033.3	359.2	000.0500	-0024.7	101.1	12.75
218.0	011.5969	0101.8	033.3	359.0	000.0500	-0025.2	101.5	12.68
219.0	011.4864	0102.0	033.3	358.7	000.0500	-0025.6	101.9	12.60
220.0	011.3764	0101.9	033.2	358.5	000.0500	-0026.0	102.4	12.51
221.0	011.3336	0101.9	033.1	358.3	000.0500	-0026.5	102.8	12.42
222.0	011.2908	0102.0	033.1	358.1	000.0500	-0026.9	103.2	12.34
223.0	011.2480	0102.0	033.1	357.8	000.0500	-0027.3	103.6	12.26
224.0	011.2054	0101.9	033.1	357.6	000.0500	-0028.7	104.0	12.17
225.0	011.1628	0101.8	033.0	357.4	000.0500	-0030.5	104.5	12.08
226.0	011.1203	0101.8	033.0	357.2	000.0500	-0031.2	105.0	11.99
227.0	011.0779	0101.9	033.0	357.0	000.0500	-0031.4	105.4	11.90
228.0	011.0356	0102.0	033.0	356.9	000.0500	-0031.4	105.8	11.81
229.0	010.9934	0102.2	033.0	356.7	000.0500	-0031.5	106.3	11.72
230.0	010.9512	0102.3	032.9	356.5	000.0500	-0031.7	106.8	11.63
231.0	010.8485	0102.3	032.9	356.3	000.0500	-0032.0	107.3	11.53
232.0	010.7462	0102.3	032.8	356.2	000.0500	-0032.4	107.8	11.43
233.0	010.6445	0102.4	032.7	356.0	000.0500	-0032.9	108.3	11.33
234.0	010.5432	0102.8	032.7	355.9	000.0500	-0033.6	108.8	11.23
235.0	010.4425	0103.4	032.7	355.7	000.0500	-0034.4	109.3	11.13
236.0	010.3422	0104.1	032.8	355.6	000.0500	-0035.4	109.7	11.04
237.0	010.2423	0104.7	032.8	355.4	000.0500	-0036.3	110.2	10.94
238.0	010.1430	0105.1	032.8	355.3	000.0500	-0037.2	110.7	10.84
239.0	010.0442	0105.5	032.8	355.1	000.0500	-0038.1	111.3	10.74
240.0	009.9458	0105.8	032.7	355.0	000.0500	-0038.9	111.8	10.64
241.0	010.0531	0106.0	032.8	354.9	000.0500	-0040.0	112.3	10.54
242.0	010.1610	0106.3	033.0	354.7	000.0500	-0040.7	112.7	10.45
243.0	010.2695	0106.6	033.1	354.5	000.0500	-0041.1	113.2	10.35
244.0	010.3786	0106.8	033.2	354.4	000.0500	-0041.4	113.7	10.26
245.0	010.4882	0107.1	033.3	354.2	000.0500	-0041.7	114.2	10.16
246.0	010.5984	0107.3	033.5	354.0	000.0500	-0042.2	114.7	10.06
247.0	010.7092	0107.5	033.6	353.9	000.0500	-0042.9	115.3	09.96