

K275AV
Wellsville, UT
Proposed Minor Modification
of Licensed Translator Facility

Application Overview:

The Applicant proposes to modify BLFT-20051115ABQ using the following parameters:

Tech Box:

Channel:	275
Antenna Coordinates:	N41-33-04, W111-56-07 (NAD 27)
ASRN:	N/A
Tower Site Base AMSL:	2176 m
Overall Tower Height AGL:	12 m
COR AGL:	9 m
ERP:	Vertically Polarized 0.25 kW
Directional Antenna:	Yes - Scala CLFM – 0 deg (see Exhibit 4)

Primary Station and Booster Protected Contour Relationship:

Exhibit 1 demonstrates that the proposed booster facility's protected contour is completely encompassed by the protected contour of the primary station being rebroadcast – KBLQ-FM 225C1 Logan, UT.

Interference Study:

Exhibit 2 is a contour overlap study demonstrating that the proposed antenna site provides requisite contour protection towards all applications, authorizations, and permits pursuant to Section 74.1204.

Proposed Booster to Combine into a Shared Antenna:

The signal of the proposed booster is to be combined into an antenna currently authorized for use by the following station(s):

- K267AU Wellsville, UT (see BLFT-20051115ABR)
- New TX 271D Wellsville, UT (see Contemporaneously Proposed Application)

Therefore, the applicant agrees to make sufficient measurements to establish that the operation of the booster is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements will be made with all stations simultaneously into the combined antenna and will be submitted to the Commission along with the FCC Form 350 application for license.

Since the proposed booster antenna is to be combined into the directional antenna of another previously authorized facility on the tower, it will have no effect on the antenna pattern of the other previously authorized facilities on the tower.

Downward Radiation Study (FM Model):

The proposed FM Facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (OET Bulletin 65, Second Edition 97-01, August, 1997). The Commission's FM Model Power Density Prediction program was employed to determine the Field. Using the Phelps-Dodge "Ring Stub" Worst Case antenna with 1 sections and 1 wavelength spacing, and the AGL height and ERP (250 watts vertical) proposed for the instant facility in this application summed with the licensed ERP for K267AU (250 watts vertical) and the contemporaneously proposed ERP of New Tx 271D (210 watts vertical) using the shared antenna, the highest predicted power density 2 meters above ground is less than 46.1% of the Controlled Standard with a Power Density of 461.4 microwatts per square centimeter 1.6 meters from the base of the tower. The antenna site is located on a remote mountain top and the only access road to the site is fenced with a lock gate. Inadvertent visitation from the general public at the site is extremely unlikely.

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

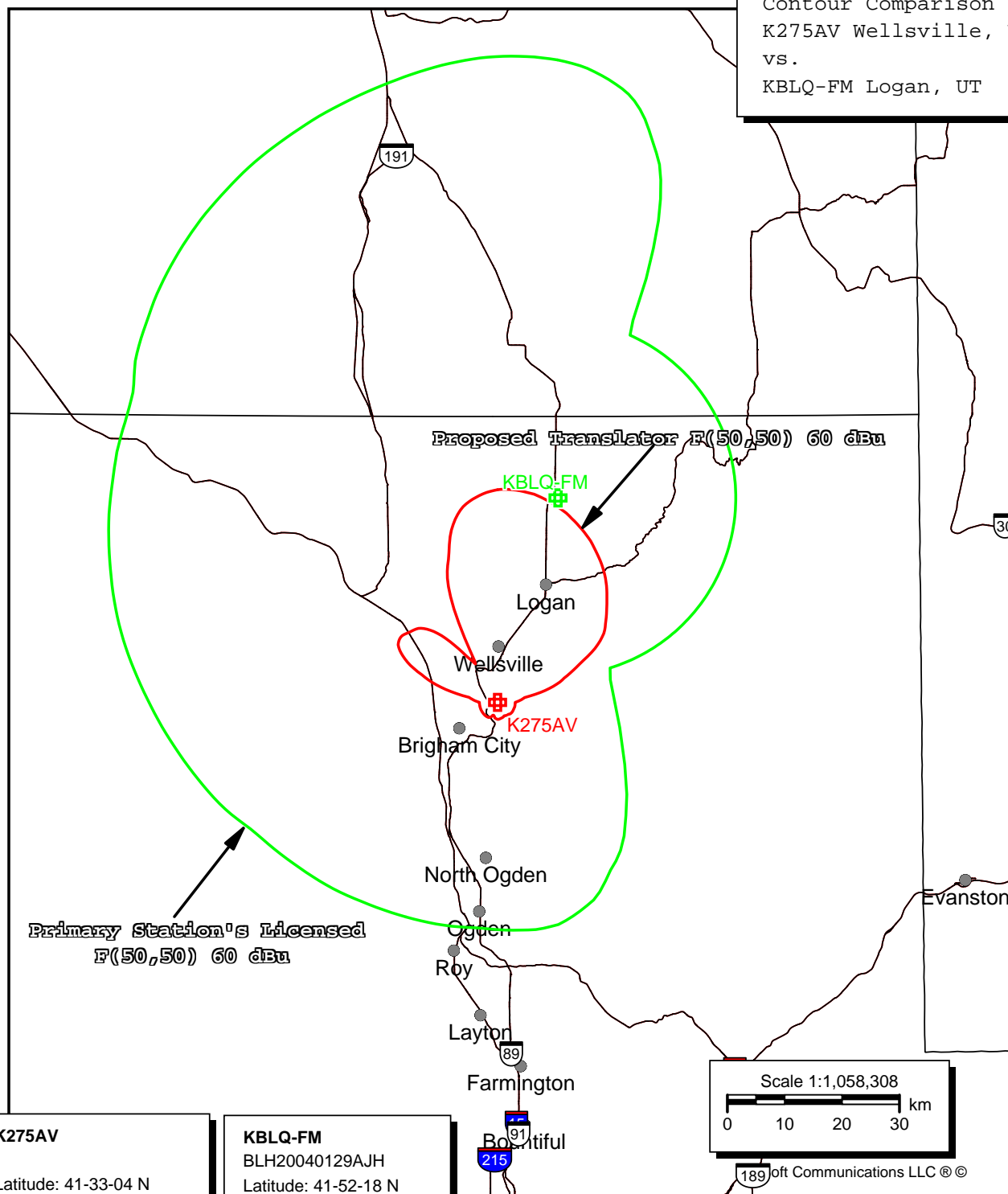
Existing Tower:

The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

Exhibit 1

**Primary Station Protected Contour
vs.
Proposed Booster Protected Contour**

Contour Comparison
K275AV Wellsville, UT
vs.
KBLQ-FM Logan, UT



K275AV

Latitude: 41-33-04 N
Longitude: 111-56-07 W
ERP: 0.25 kW
HAAT: 0.0 m
Channel: 275 D
Frequency: 102.9 MHz
AMSL Height: 2185.0 m
Elevation: 2176.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KBLQ-FM

BLH20040129AJH
Latitude: 41-52-18 N
Longitude: 111-48-31 W
ERP: 100.00 kW
HAAT: 63.0 m
Channel: 225 C1
Frequency: 92.9 MHz
AMSL Height: 1746.0 m
Elevation: 1716.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 2

Section 74.1204 Interference Tabulations And Overlap Maps

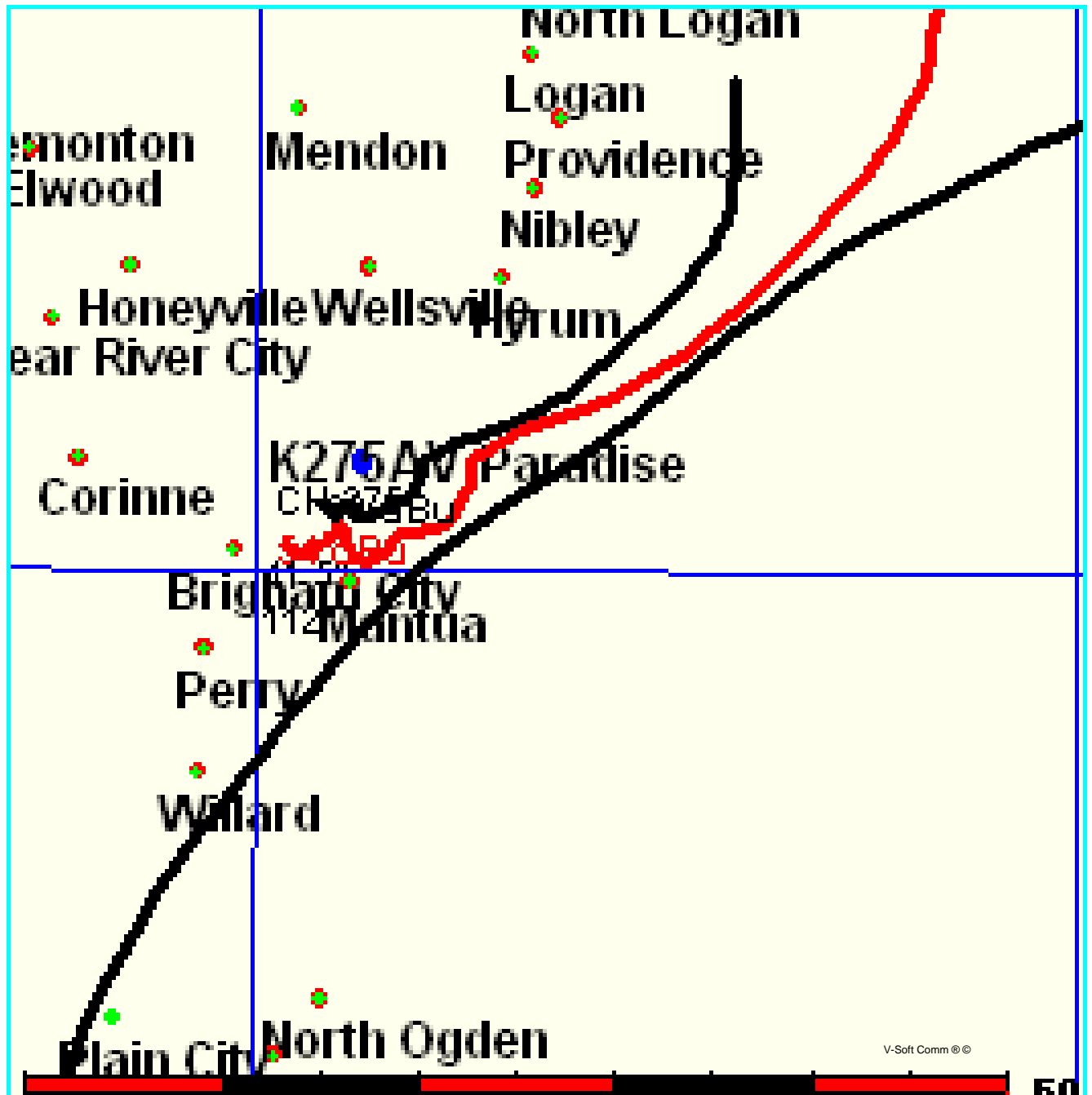
K275AV Wellsville, UT											
Section 74.1204 Overlap Study											
REFERENCE		CH# 275D		- 102.9 MHz, Pwr= 0.25 kW, HAAT= 0.0 M, COR= 2185 M				DISPLAY DATES			
41 33 04.0 N.				Average Protected F(50-50)= 7.09 km				DATA 06-04-08			
111 56 07.0 W.								SEARCH 06-18-08			
CH CITY	CALL	TYPE STATE	ANT STATE	AZI ---	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
275D Wellsville	K275AV	LIC DV_	UT	0.0 0.0	0.00 BLFT20051115ABQ	41 33 04.0 111 56 07.0	0.130 2185	91.3 2185	31.1 Sun Valley Radio, Inc.	-128.32*	-131.84*
276C Coalville	KJQN	LIC _HX	UT	133.6 314.2	109.17 BLH20040324AFH	40 52 16.0 110 59 43.0	89.000 647	149.2 3330	102.9 Simmons-slc, Ls, Lic	-42.99*	1.16
274C Midvale	KSL-FM	LIC _CX	UT	192.8 12.6	101.52 BLH20021113AAL	40 39 34.0 112 12 05.0	25.000 1140	139.9 2803	95.8 Bonnevillie Holding Company	-40.85*	1.86
276D Park City	KJQN-FM3	LIC DC_	UT	153.6 333.9	86.24 BLFTB20041122AHY	40 51 18.0 111 28 47.0	3.000 2855	90.4 2855	61.0 Simmons-slc, Ls, Lic	-6.74*	21.09
277D Weston	K277BD	APP _C_	ID	16.4 196.5	37.13 BPFT20080528ADD	41 52 18.0 111 48 31.0	0.250 1725	1.1 1725	24.1 Frandsen Media Company, LI	0.26	11.98
277D Weston	K277BD	LIC DC_	ID	16.4 196.5	37.13 BLFT20070830ADX	41 52 18.0 111 48 31.0	0.250 1725	1.1 1725	24.1 Frandsen Media Company, LI	0.26	11.98
276D Bountiful	KJQN-FM5	LIC DC_	UT	175.9 355.9	79.76 BLFTB20041105AFB	40 50 05.0 111 52 03.0	2.500 1828	71.6 1828	47.2 Simmons-slc, Ls, Lic	5.20	27.49
278C Salt Lake City	KRSP-FM	LIC _CX	UT	192.8 12.6	101.52 BLH20021113AAM	40 39 34.0 112 12 05.0	25.000 1140	10.1 2803	95.8 Bonnevillie Holding Company	89.00	5.69
272C Randolph	KDUT	LIC _HX	UT	133.6 314.2	109.17 BLH20030729AEW	40 52 16.0 110 59 43.0	89.000 647	16.7 3330	102.9 Bustos Media Of Utah Licen	89.51	6.20
276D Ogden	KJQN-FM1	LIC DC_	UT	194.7 14.7	23.99 BLFTB20041222GDQ	41 20 32.0 112 00 30.0	0.500 1596	12.0 1596	8.5 Simmons-slc, Ls, Lic	9.57	11.71
272D Ogden	KDUT-FM3	LIC DV_	UT	188.8 8.7	43.30 BLFTB20001108ABW	41 09 57.0 112 00 52.0	5.600 1419	2.7 1419	27.5 Bustos Media Of Utah Licen	37.86	15.73
276D Salt Lake City	KJQN-FM2	LIC DC_	UT	177.4 357.4	82.67 BLFTB20041105AES	40 48 27.0 111 53 26.0	0.560 1835	55.2 1835	35.6 Simmons-slc, Ls, Lic	24.53	41.91
272D Preston, Etc.	K272AB	LIC _CN	ID	11.7 191.8	65.12 BLFT16	42 07 30.0 111 46 30.0	0.008 205	0.2 1878	11.4 Franklin County Tv Distric	28.37	52.68
276D Millcreek	DK276DP	LIC _CN	UT	177.3 357.4	82.61 BLFT19970113TG	40 48 29.0 111 53 22.0	0.160 305	41.0 1844	26.4 First National B/cing Corp	38.64	51.04
272D Laketown-garden Cit	K272AX	LIC DHN	UT	56.1 236.5	66.54 BLFT19870601TC	41 52 57.0 111 16 09.0	0.030 333	0.4 2314	16.3 Rich County	43.67	49.78
275C1 Jerome	RDEL	DEL _	ID	303.5 121.8	243.54	42 43 54.0 114 25 04.0	100.000 299	169.5 1471	70.2 College Creek Broadcasting	53.72	106.08
276D No. Salt Lake	KJQN-FM7	LIC DV_	UT	179.0 359.0	79.36 BLFTB20061109AAK	40 50 12.0 111 55 05.0	0.500 1371	20.6 1371	13.8 Simmons-slc, Ls, Lic	55.76	60.41
272D Bountiful	KDUT-FM1	LIC DC_	UT	175.9 355.9	79.76 BLFTB20031103ACC	40 50 05.0 111 52 03.0	0.099 1828	0.7 1828	22.4 Bustos Media Of Utah Licen	76.12	57.30
272D Salt Lake City	KDUT-FM2	LIC DC_	UT	177.4 357.4	82.67 BLFTB20030729AEY	40 48 27.0 111 53 26.0	0.099 1829	0.7 1829	23.2 Bustos Media Of Utah Licen	79.02	59.46
275C1 Jerome	KMVX	LIC _CX	ID	303.5 121.8	243.54 BMLH20040817AAL	42 43 54.0 114 25 04.0	100.000 232	163.6 1413	65.3 Kart Broadcasting Co., Inc	59.59	111.04

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
ERP and HAAT are on direct line to and from reference station.
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.

K275AV vs KJQN(FM) 276C Coalville, UT
 Section 74.1204 Overlap Study

FMCommander Single Allocation Study
 06-18-2008

K275AV	CH 275 D	KJQN	CH 276 C	BLH20040324AFH
0.25 kW	2185 M COR DA	89.0 kW,	3330 M COR	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 54 dBu		Intef. = 54 dBu		

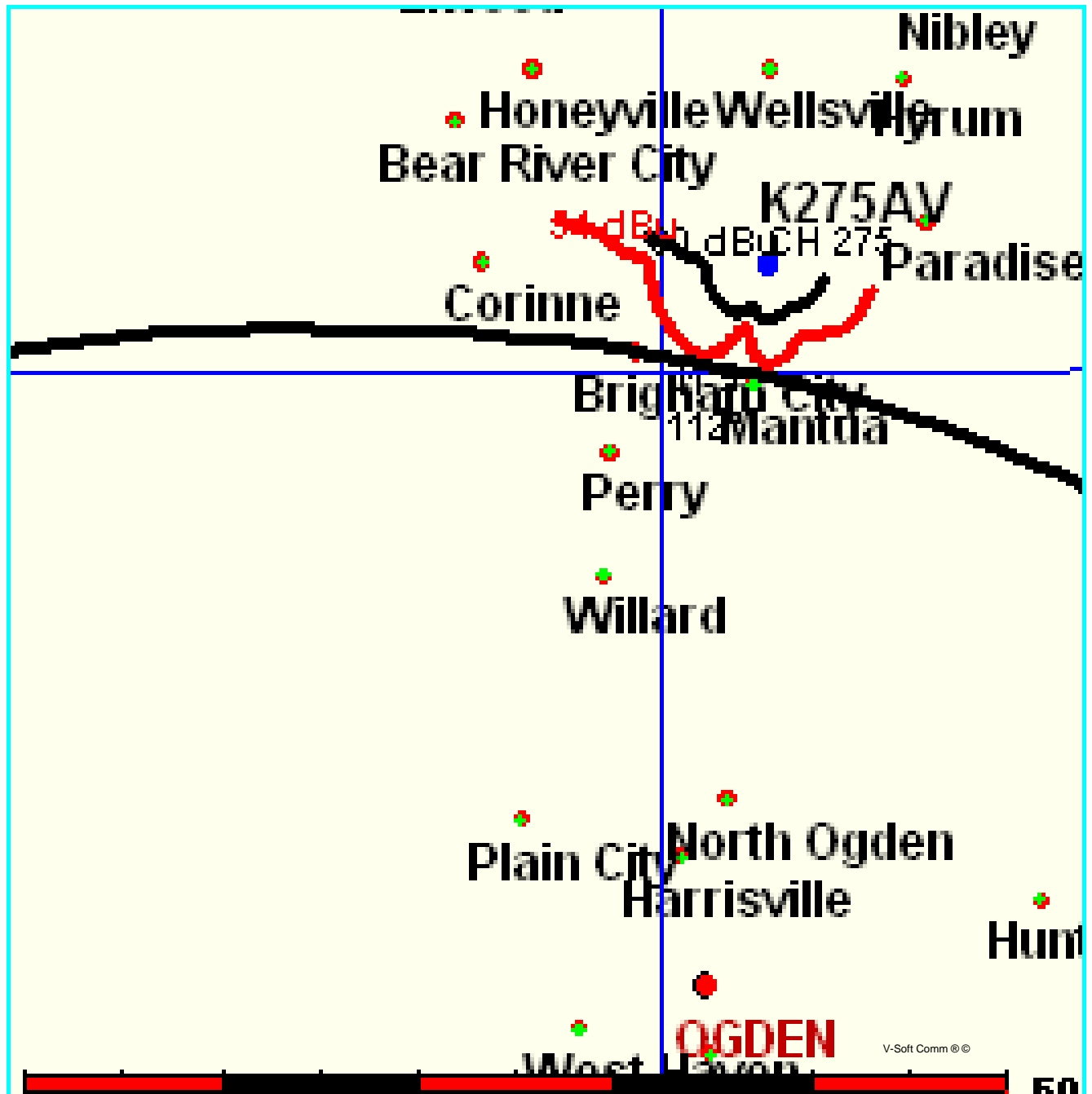


K275AV vs KSL-FM 274C Midvale, UT
 Section 74.1204 Overlap Study

FMCommander Single Allocation Study
 06-18-2008

K275AV CH 275 D
 0.25 kW 2185 M COR DA
 Prot. = 60 dBu
 Intef. = 54 dBu

KSL-FM CH 274 C BLH20021113AAL
 25.0 kW, 2803 M COR
 Prot. = 60 dBu
 Intef. = 54 dBu

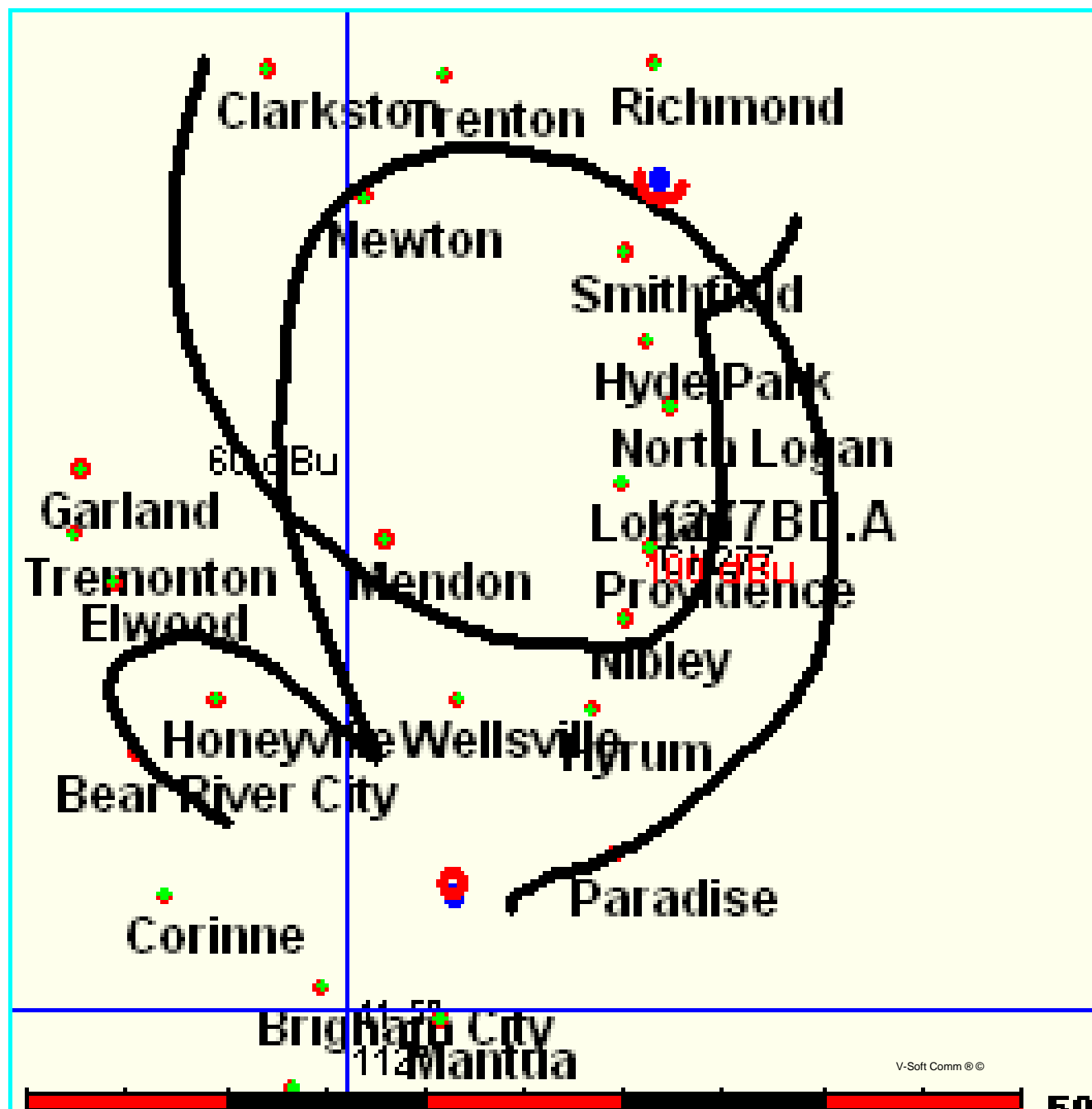


K275AV vs K277BD
Section 74.1204 Overlap Study

FMCommander Single Allocation Study
06-18-2008

K275AV CH 275 D
0.25 kW 2185 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu

K277BD.A CH 277 D BPFT20080528ADD
0.25 kW, 1725 M COR
Prot. = 60 dBu
Intef. = 100 dBu

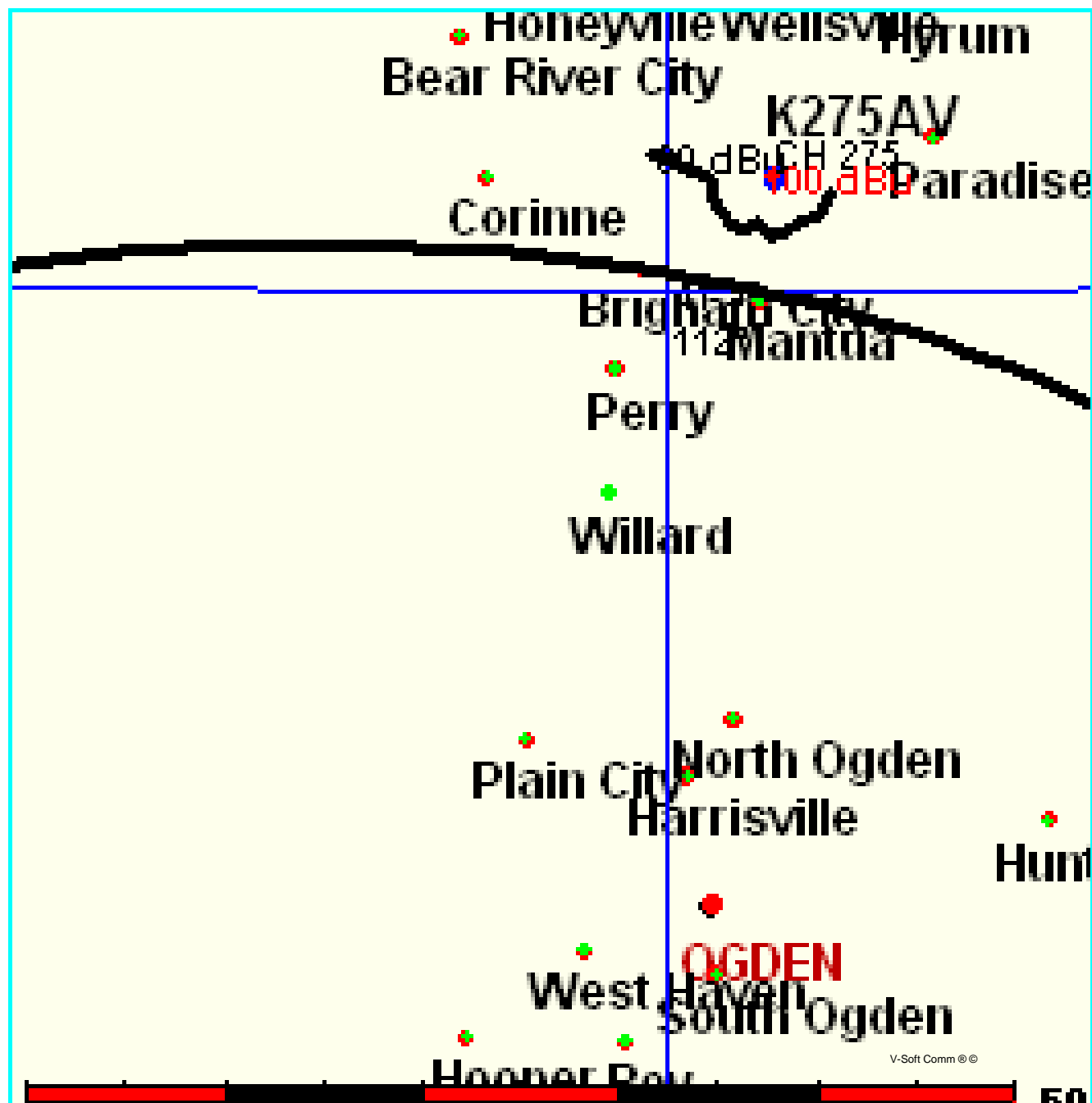


K275AV vs KRSP(FM) 278C Salt Lake City
Section 74.1204 Overlap Study

FMCommander Single Allocation Study
06-18-2008

K275AV CH 275 D
0.25 kW 2185 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu

KRSP-FM CH 278 C BLH20021113AAM
25.0 kW, 2803 M COR
Prot. = 60 dBu
Intef. = 100 dBu



K275AV vs KDUT(FM) 272C Randolph
Section 74.1204 Overlap Study

FMCommander Single Allocation Study
06-18-2008

K275AV	CH 275 D	KDUT	CH 272 C	BLH20030729AEW
0.25 kW	2185 M COR DA	89.0 kW,	3330 M COR	
Prot. =	60 dBu	Prot. =	60 dBu	
Intef. =	100 dBu	Intef. =	100 dBu	

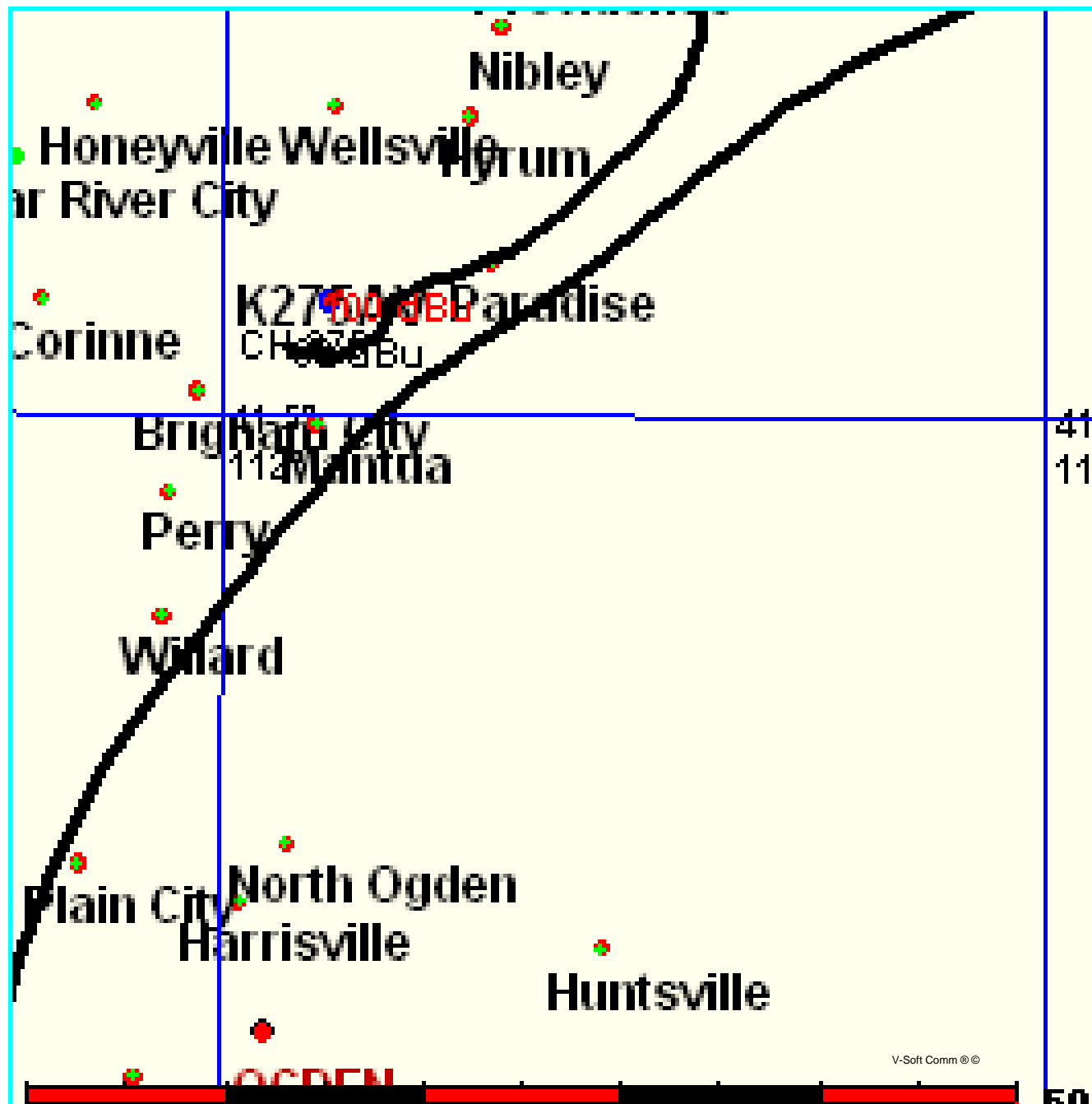


Exhibit 4

Proposed Directional Pattern Azimuth Tabulations

Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Effective Field
0.0	1.000
10.0	0.980
20.0	0.916
30.0	0.817
40.0	0.690
50.0	0.544
60.0	0.390
70.0	0.190
80.0	0.050
90.0	0.030
100.0	0.030
110.0	0.030
120.0	0.030
130.0	0.030
140.0	0.030
150.0	0.030
160.0	0.030
170.0	0.030
180.0	0.030
190.0	0.030
200.0	0.030
210.0	0.030
220.0	0.030
230.0	0.030
240.0	0.030
250.0	0.030
260.0	0.030
270.0	0.030
280.0	0.050
290.0	0.190
300.0	0.390
310.0	0.544
320.0	0.690
330.0	0.817
340.0	0.916
350.0	0.980

