

Broadcast Engineering Services of Bonny Doon, Inc.

Donald E. Mussell Jr. NCE-CBT
Consulting Engineer
740 Front Street Suite 305
Santa Cruz, Ca 95060

(831) 420-1571 Office
(831) 588-9463 Cell
dmsml@well.com
www.well.com/user/dmsml

**Engineering Statement
in support of a new translator
at Kihei, Hawaii
BNPFT 20030317AAD**

The applicant is requesting a construction permit for a new translator for Kihei, Hawaii on Channel 238 (95.5 mhz). This will be a fill-in translator for KAOI-FM. The proposed 100dbu F50/10 contour does overlap the 60 dbu contour of KAOI-FM, but there is no population inside the overlap contour. To the extent required, the applicant requests a waiver with regard to FCC 74.1204(d) because of the lack of population in this overlap area. There are no other conflicts and no other prohibited overlap will result.

This proposal is not located within 39 kilometers of any spectrum limited market grid, nor within a top-50 market. Because of this, no LPFM preclusion study is required.

An allocation study, along with detail maps, is attached to this statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'D. Mussell Jr.', with a stylized flourish at the end.

Donald E. Mussell Jr. NCE-CBT
Consulting Engineer
August 22, 2013

Broadcast Engineering Services of Bonny Doon, Inc.
Don Mussell NCE-CBT

Kihei Translator
Visionary Related Entertainment.inc
Average Protected F(50-50)= 3.07 km
Standard Directional

REFERENCE
20 38 13.3 N.
156 23 23.9 W.

CH# 238D - 95.5 MHz, Pwr= 0.009 kw DA, HAAT= 0.0 M, COR= 833 M

DISPLAY DATES
DATA 08-17-13
SEARCH 08-20-13

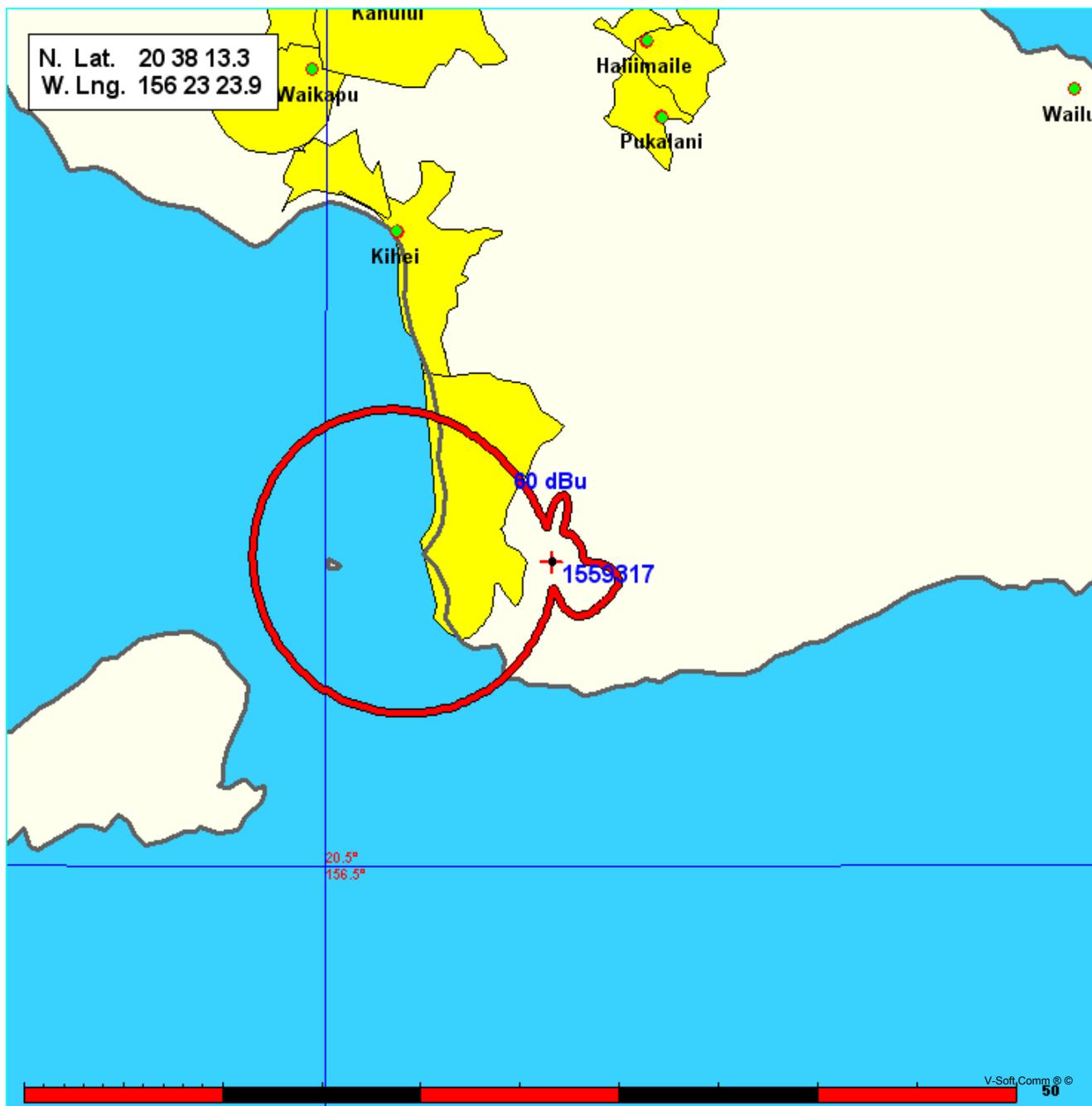
CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
238D Kihei	1559317	APP _V_ HI	0.0 0.0	0.00 BNPFT20030317AAD	20 38 13.3 156 23 23.9	0.010	39.1 833	11.4 Visionary Related Entertai	-41.7*	-24.6*
236C1 Wailuku	KAOI-FM	LIC _HX HI	44.0 224.1	21.35 BLH20090410ARC	20 46 31.0 156 14 49.0	3.500 933	3.7 2104	47.8 Visionary Related Entertai	14.8	-26.5*
238C Honolulu	KAIM-FM	LIC DC_ HI	295.7 115.1	196.57 BLH19990430KB	21 23 45.0 158 05 58.0	100.000 565	196.7 734	92.3 Salem Media Of Hawaii, Inc	-14.5*	51.0
241D Kihei	1559842	APP _C_ HI	34.3 214.3	14.11 BNPFT20030313AMC	20 44 32.0 156 18 48.0	0.010	0.2 1228	8.6 George Hochman	10.9	2.8
239D Lahaina	1559840	APP _C_ HI	318.0 137.9	47.05 BNPFT20030313AMQ	20 57 06.0 156 41 38.0	0.250	10.1 50	7.1 George Hochman	24.4	20.7

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= West Zone, Co to 3rd adjacent.
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.

Kihei Translator
Visionary Related Entertainment.inc

Coverage Study - FCC NGDC 30 Sec
08-22-2013

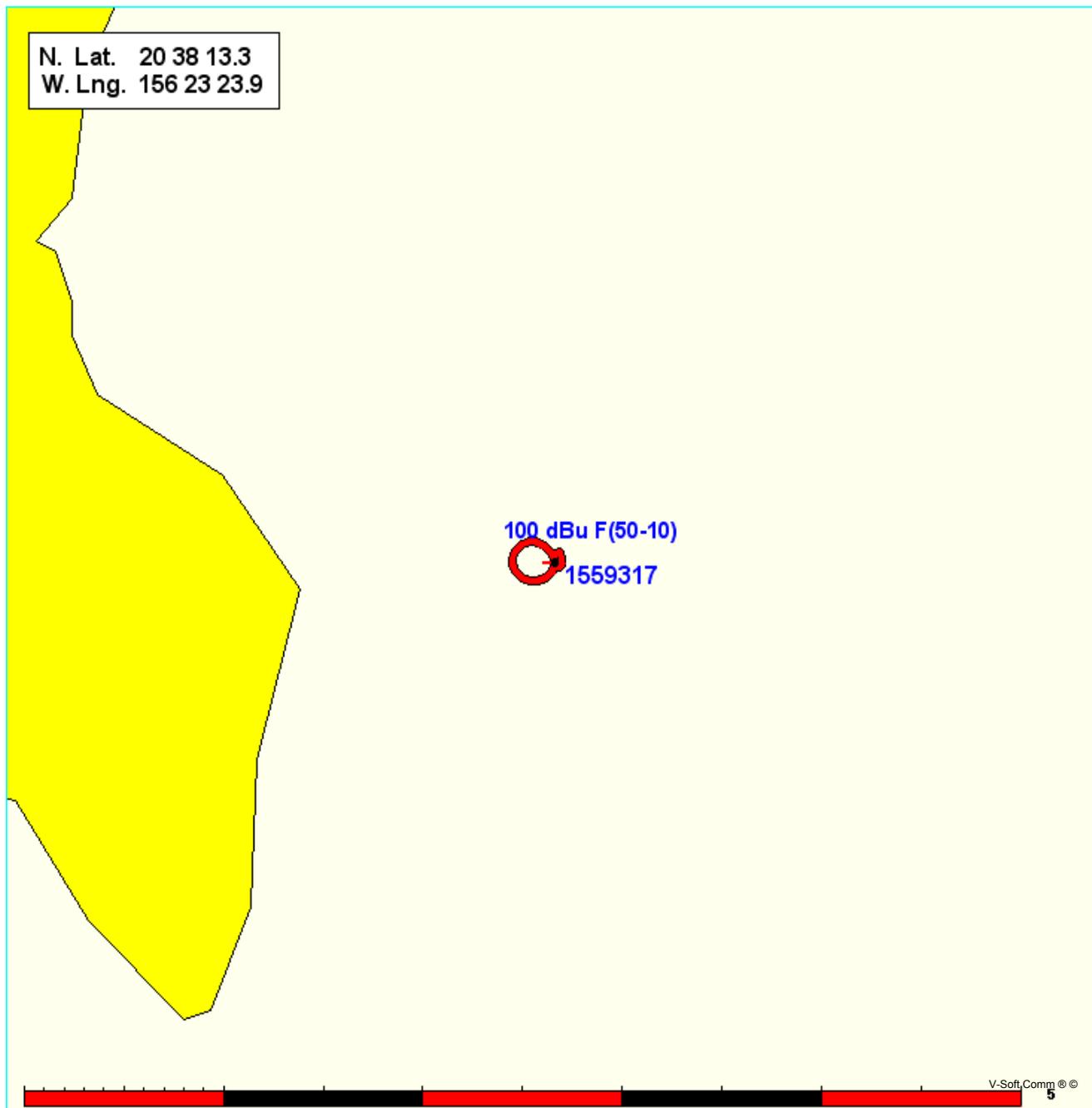
1559317 CH238 D , 0.009 kW, 0.0M HAAT, 833.0M COR AMSL
Service Contour = 60 dBu. Population = 732

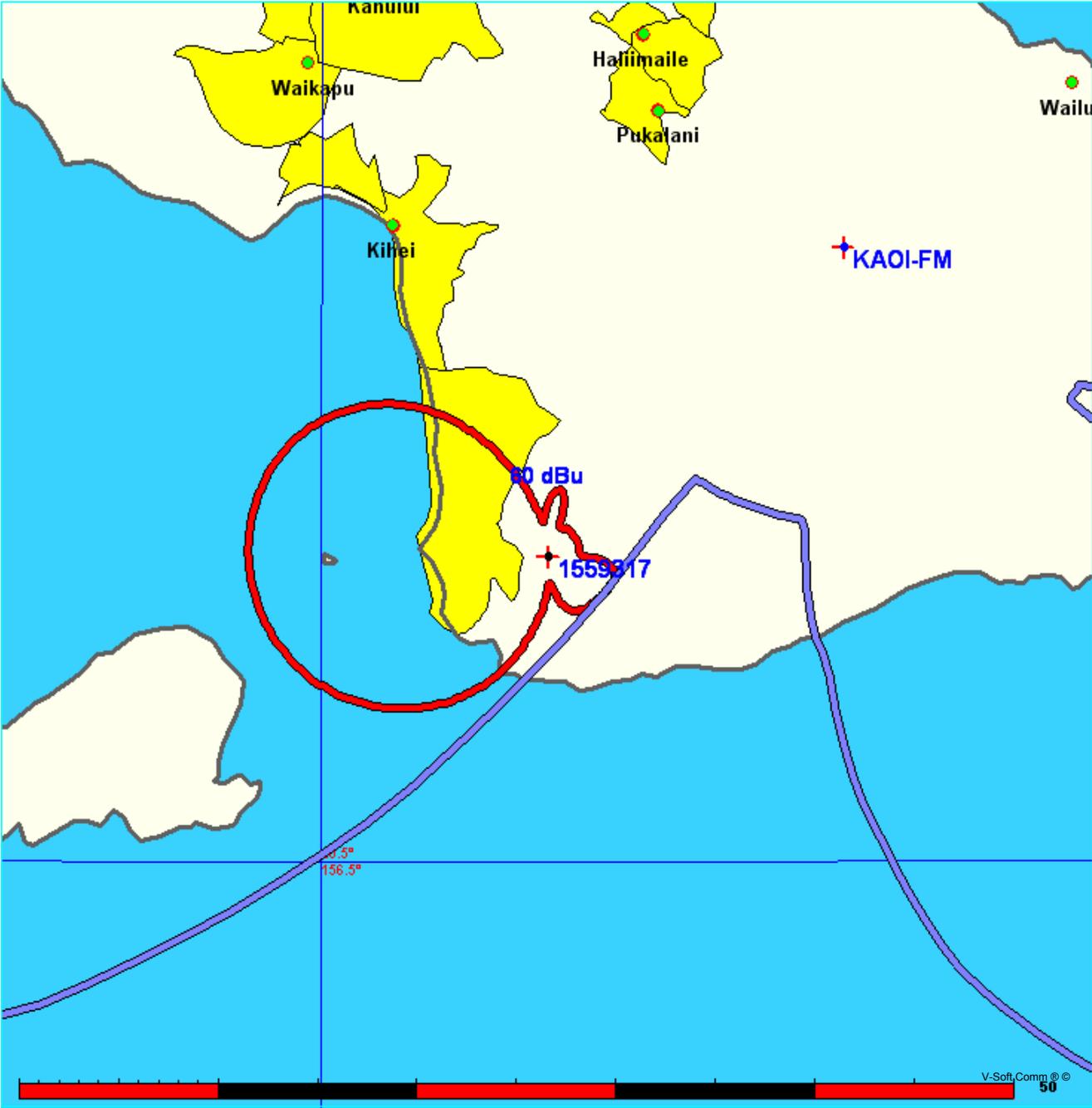


Kihei Translator
Visionary Related Entertainment.inc

Coverage Study - FCC NGDC 30 Sec
08-22-2013

1559317 CH238 D , 0.009 kW, 0.0M HAAT, 833.0M COR AMSL
Service Contour = 100 dBu. Population =

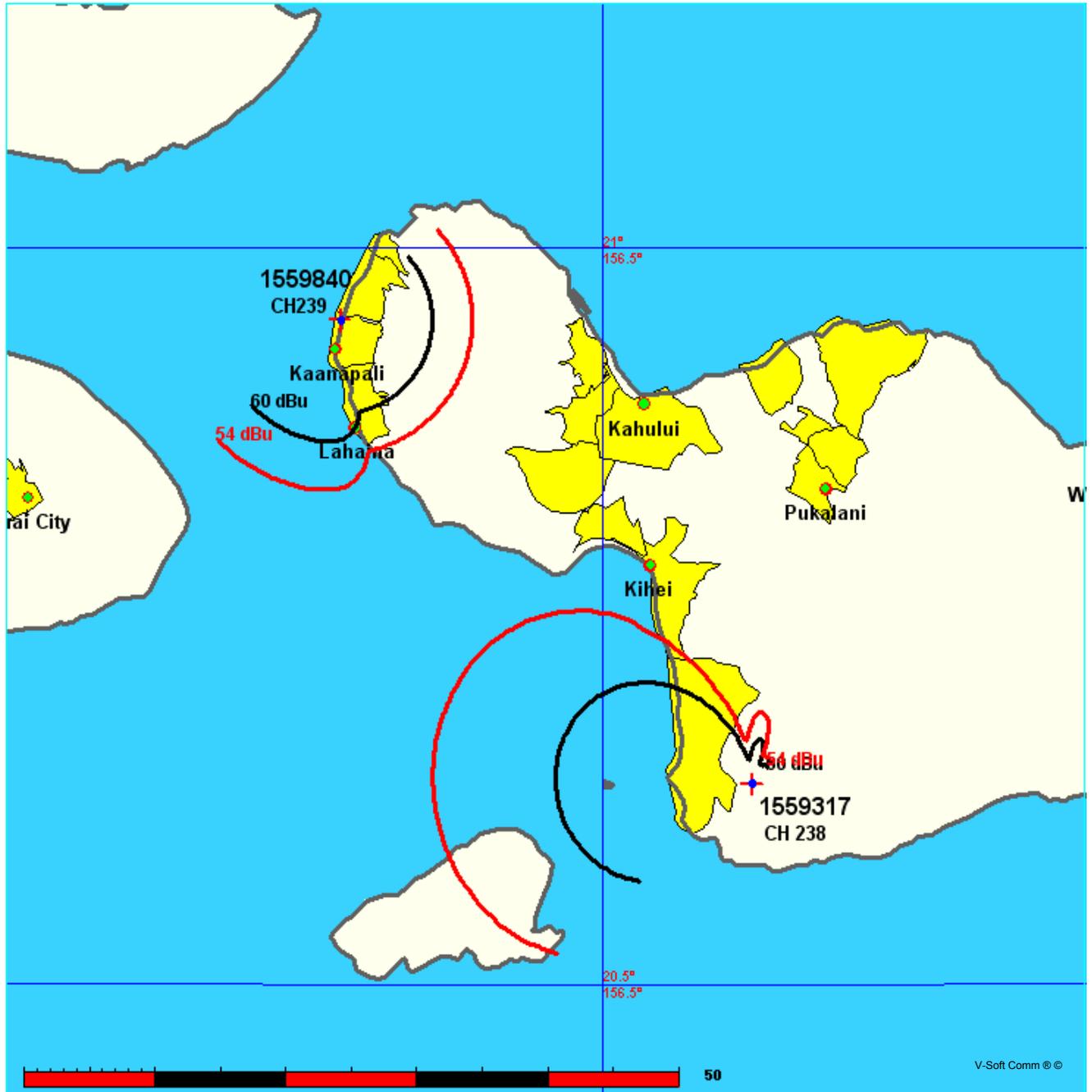




FMCommander Single Allocation Study - 08-22-2013 - FCC NGDC 30 Sec
1559317's Overlaps (In= 24.43 km, Out= 20.68 km)

1559317 CH 238 D DA
Lat= 20 38 13.3, Lng= 156 23 23.9
0.009 kW 0 M HAAT, 833 M COR
Prot.= 60 dBu, Intef.= 54 dBu

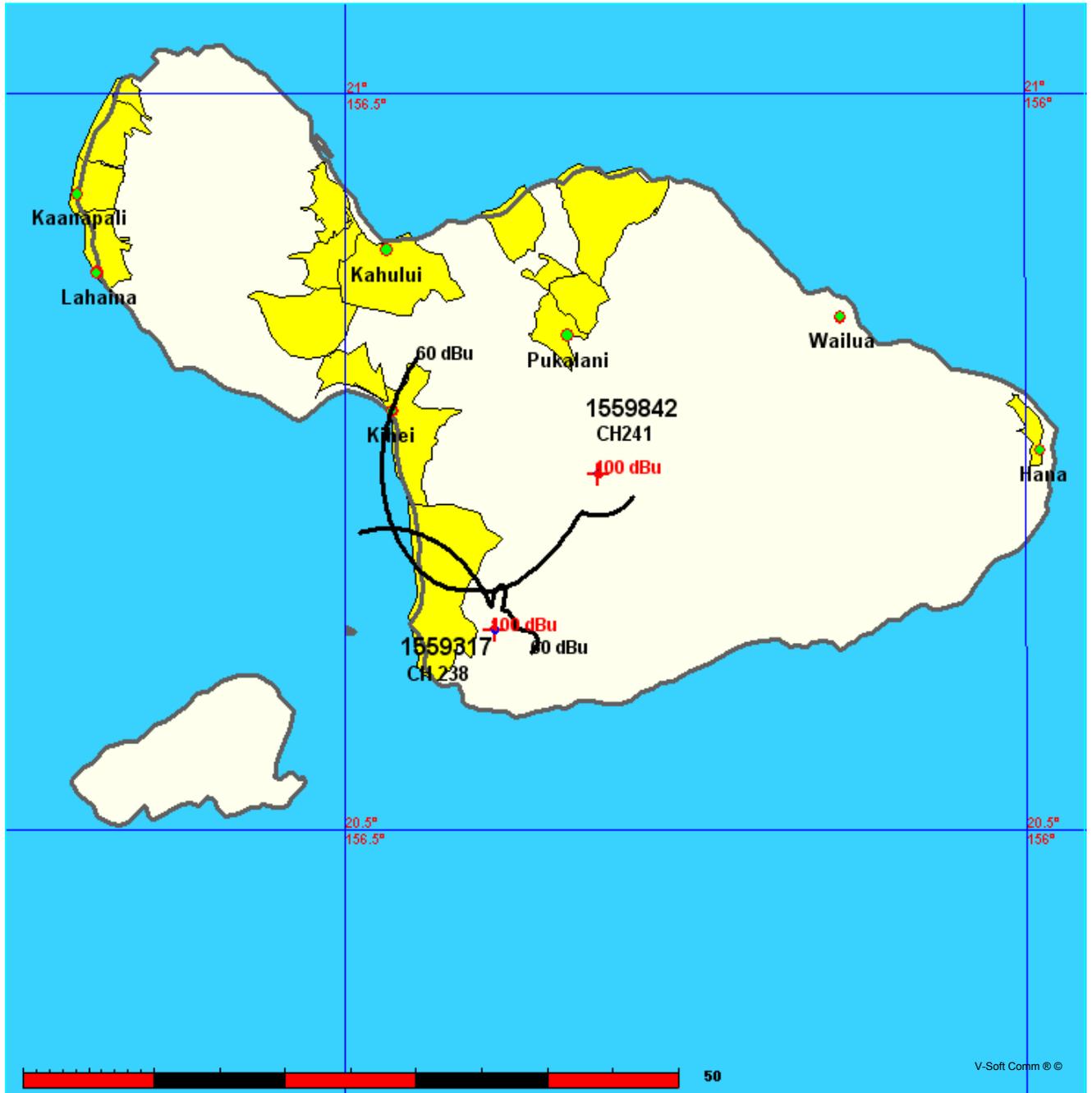
1559840 CH 239 D BNPFT20030313AMQ
Lat= 20 57 06.0, Lng= 156 41 38.0
0.25 kW 0 M HAAT, 50 M COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 08-22-2013 - FCC NGDC 30 Sec
1559317's Overlaps (In= 10.93 km, Out= 2.82 km)

1559317 CH 238 D DA
Lat= 20 38 13.3, Lng= 156 23 23.9
0.009 kW 0 M HAAT, 833 M COR
Prot.= 60 dBu, Intef.= 100 dBu

1559842 CH 241 D BNPFT20030313AMC
Lat= 20 44 32.0, Lng= 156 18 48.0
0.01 kW 0 M HAAT, 1228 M COR
Prot.= 60 dBu, Intef.= 100 dBu



1559317

08-22-2013

RMS(V)= .495

Graph is Relative Field

Azi	Field	dBk	kw
000	0.139	-37.585	0.000
010	0.207	-34.142	0.000
020	0.241	-32.824	0.001
030	0.240	-32.857	0.001
040	0.220	-33.597	0.000
050	0.200	-34.450	0.000
060	0.189	-34.933	0.000
070	0.186	-35.049	0.000
080	0.188	-34.993	0.000
090	0.192	-34.810	0.000
100	0.189	-34.919	0.000
110	0.187	-35.021	0.000
120	0.178	-35.464	0.000
130	0.169	-35.879	0.000
140	0.165	-36.113	0.000
150	0.160	-36.386	0.000
160	0.138	-37.660	0.000
170	0.090	-41.421	0.000
180	0.075	-42.922	0.000
190	0.170	-35.854	0.000
200	0.299	-30.953	0.001
210	0.438	-27.638	0.002
220	0.576	-25.246	0.003
230	0.705	-23.497	0.004
240	0.821	-22.172	0.006
250	0.911	-21.271	0.007
260	0.972	-20.701	0.009
270	0.998	-20.472	0.009
280	0.989	-20.550	0.009
290	0.939	-21.002	0.008
300	0.851	-21.862	0.007
310	0.719	-23.328	0.005
320	0.557	-25.544	0.003
330	0.371	-29.065	0.001
340	0.197	-34.577	0.000
350	0.088	-41.558	0.000

