

Channel Study

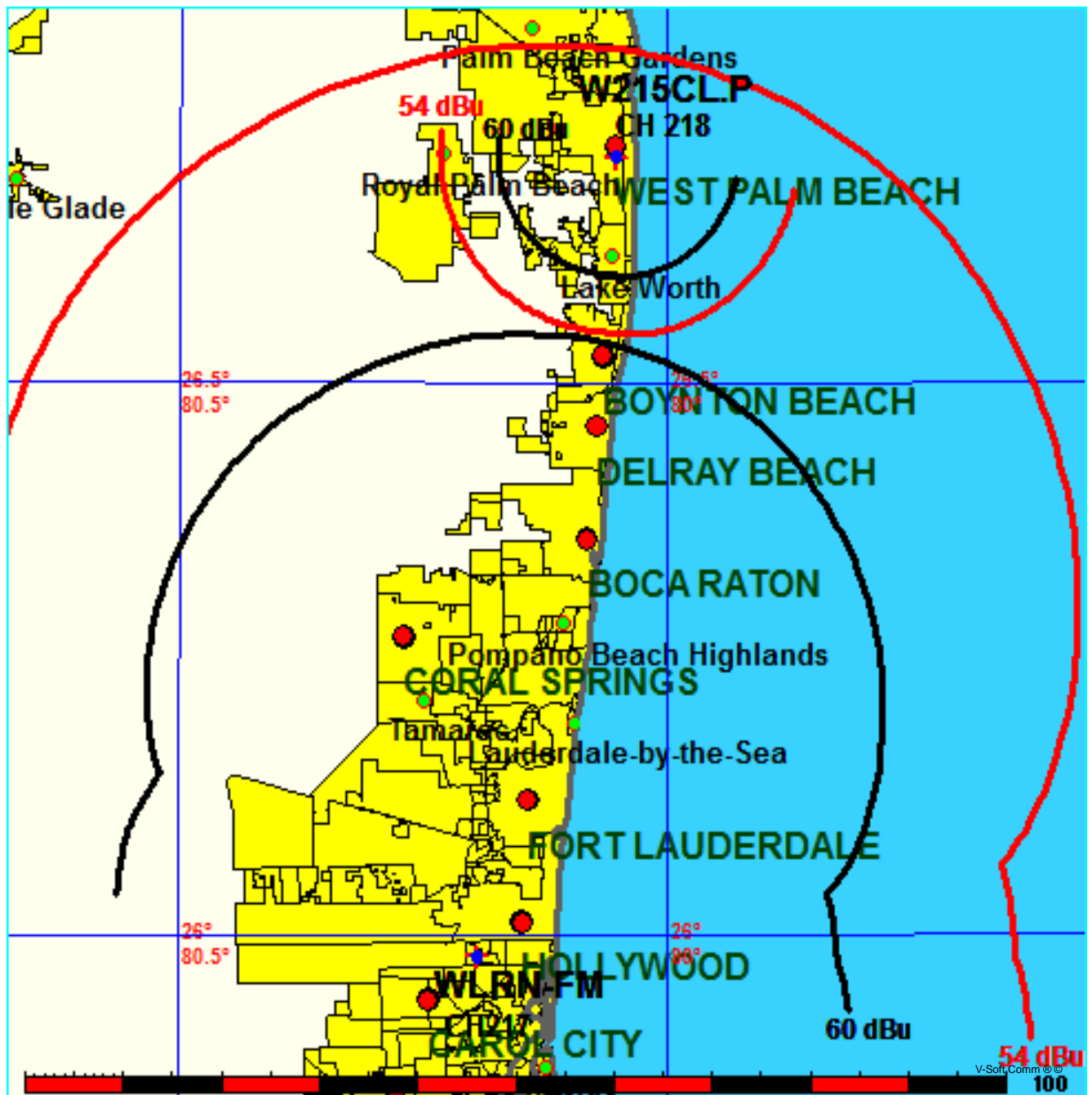
REFERENCE		CH# 218D - 91.5 MHz, Pwr= 0.16 kW, HAAT= 113.4 M, COR= 116 M								DISPLAY DATES	
26 42 26.0 N.		Average Protected F(50-50)= 12.3 km								DATA 05-23-17	
80 03 06.0 W.		Omni-directional								SEARCH 05-25-17	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
221C3 West Palm Beach	WRLX	LIC	NCN FL	346.8	10.49 BLH19931104KB	26 47 58.0 80 04 33.0	7.200 152	3.4 154	35.4 Capstar Tx, Llc	-5.0*<	-25.8*<
217C1 Miami	WLRN-FM	LIC	DCX FL	190.1 10.1	81.90 BLED20030411ABJ	25 58 46.0 80 11 46.0	47.000 285	92.9 287	63.5 The School Board Of Miami-	-23.1*<	0.5
218A Clewiston	WPSF	LIC	CX FL	270.4 90.0	84.41 BLED20150217ABR	26 42 34.8 80 54 00.0	1.200 161	72.9 165	24.4 American Educational Broad	-0.6<	18.4
215D West Palm	W215CL!	LIC	DH FL	258.7 78.6	14.39 BLFT20170515ABW	26 40 54.4 80 11 36.7	0.050	0.3 23	3.7 Educational Media Foundati	1.9	9.8
219A Stuart	WWFR	LIC	DCX FL	323.2 143.0	57.38 BMLED20131118ALW	27 07 14.0 80 23 59.0	2.650 152	42.4 157	28.0 Family Stations, Inc.	2.8	11.4
272C1 Jensen Beach	WMBX	LIC	CX FL	340.4 160.4	37.42 BMLH20120529ADE	27 01 31.0 80 10 43.0	100.000 297	78.0 299	65.0 Alpha Media Licensee Llc	22.0R	15.4M
219D West Deerfield Beac	W219DP	LIC	C FL	202.6 22.5	44.97 BLFT20160112AAD	26 19 57.0 80 13 31.0	0.250	12.8 53	9.2 Edgewater Broadcasting, In	20.0	17.8
216C1 Fort Pierce	WJFP	APP	DCX FL	339.3 159.2	86.32 BMPED20170421AAI	27 26 07.0 80 21 41.0	85.000 140	6.6 142	55.4 Black Media Works, Inc.	67.6	30.0
216C1 Fort Pierce	WJFP	CP	DCX FL	339.3 159.2	86.32 BPED20140311ACF	27 26 07.0 80 21 41.0	100.000 125	6.5 128	54.9 Black Media Works, Inc.	67.7	30.6
218D Okeechobee	W218BB	LIC	CN FL	305.2 124.8	99.37 BLFT19980317TC	27 13 12.0 80 52 22.0	0.055 61	23.3 66	6.9 The Moody Bible Institute	63.9	50.8
216A Fort Pierce	WJFP	LIC	CX FL	339.3 159.2	86.32 BLED20140722AEC	27 26 07.0 80 21 41.0	0.750 119	1.5 121	18.8 Black Media Works, Inc.	72.7	66.7
06+T Miami	WEYS-LP	LI	N FL	190.9 10.8	83.07 BLTVL20090910AAQ	25 58 15.0 80 12 32.0	3.000 247	2.7 247	6.1 8.8R	8.8R	74.3M

Terrain database is GLOBE 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone= East 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 restricted contour.
 < = Station meets FCC minimum distance spacing for its class.
 < = Contour Overlap

FMCommander Single Allocation Study - 05-25-2017 - GLOBE 30 Sec
W215CL.P's Overlaps (In= -23.1 km, Out= 0.46 km)

W215CL.P CH 218 D
Lat= 26 42 26.0, Lng= 80 03 06.0
0.16 kW 113.4 m HAAT, 116 m COR
Prot.= 60 dBu, Intef.= 54 dBu

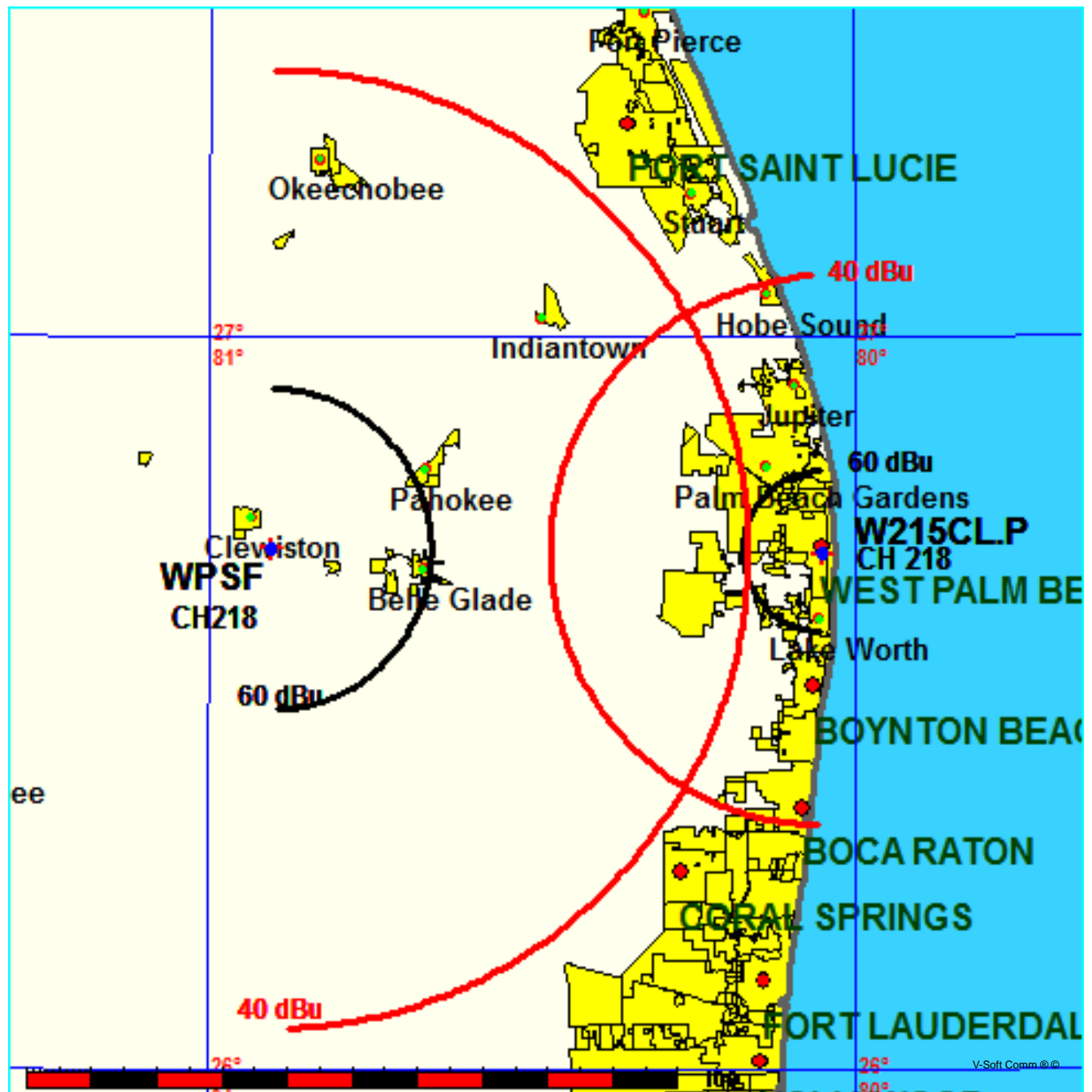
WLRN-FM CH 217 C1 DA BLED20030411ABJ
Lat= 25 58 46.0, Lng= 80 11 46.0
47.0 kW 285 m HAAT, 286.7 m COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 05-25-2017 - GLOBE 30 Sec
W215CL.P's Overlaps (In= -0.62 km, Out= 18.4 km)

W215CL.P CH 218 D
Lat= 26 42 26.0, Lng= 80 03 06.0
0.16 kW 113.4 m HAAT, 116 m COR
Prot.= 60 dBu, Intef.= 40 dBu

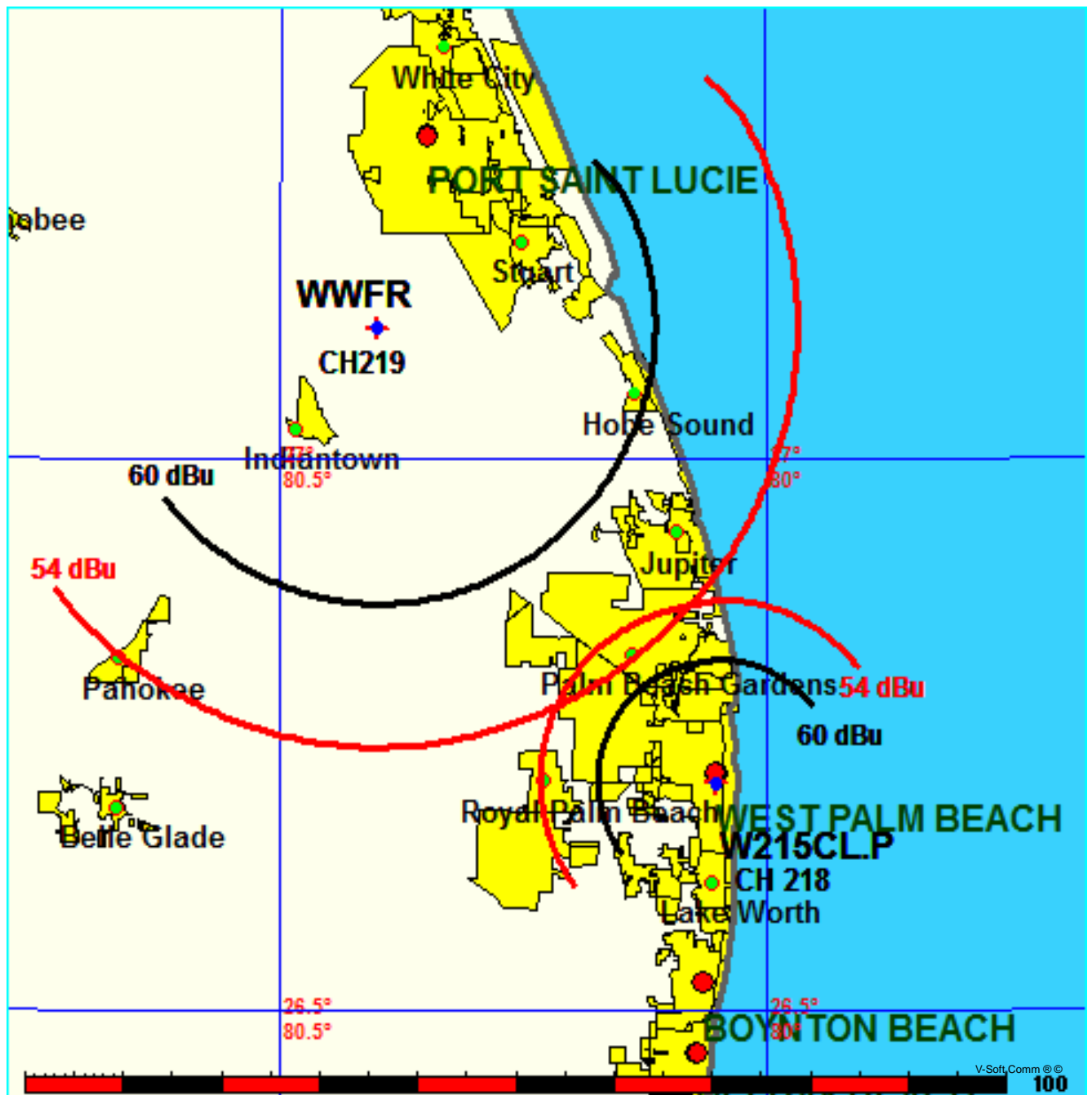
WPSF CH 218 A BLED20150217ABR
Lat= 26 42 34.8, Lng= 80 54 00.0
1.2 kW 161 m HAAT, 165 m COR
Prot.= 60 dBu, Intef.= 40 dBu



FMCommander Single Allocation Study - 05-25-2017 - GLOBE 30 Sec
W215CL.P's Overlaps (In= 2.8 km, Out= 11.37 km)

W215CL.P CH 218 D
Lat= 26 42 26.0, Lng= 80 03 06.0
0.16 kW 113.4 m HAAT, 116 m COR
Prot.= 60 dBu, Intef.= 54 dBu

WWFR CH 219 A DA BMLED20131118ALW
Lat= 27 07 14.0, Lng= 80 23 59.0
2.65 kW 152 m HAAT, 157 m COR
Prot.= 60 dBu, Intef.= 54 dBu



Educational Media Foundation

5700 W Oaks Blvd
Rocklin, CA 95765

Exhibit 13-A
West Palm beach, FL

Compliance with C.F.R. 74.1204

The proposed FM Translator to operate on proposed channel 218 is located within the protected 60dBu contour of third adjacent channel station WRLX, channel 221C3, West Palm Beach, FL. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for W215CL.P:	160 watts
The proposed COR for W215CL.P:	114 meters
WRLX F(50/50) contour at proposed site:	81.7dBu
The F(50/10) contour of proposed W215CL.P:	121.7dBu

The predicted distance to the 121.7dbu interfering contour is 72.9 meters. Taking into account the vertical elevation pattern of the Nicom BKG77 three bay halfwaved spaced antenna and the height above ground of 114M, it has been determined that the interfering contour of 121.7dbu does not reach the ground. As seen in Exhibit 13-A1, the lowest elevation for this interfering contour is 98.8M above ground at a distance of 44m from the antenna. Note the distances above ground toward any potential population are much higher than the lowest elevation figure. The proposed antenna will be mounted on a building rooftop.

Taking into account the penthouse elevation and the antenna mast rising above the penthouse and the mechanical floor levels below the penthouse, there is ample headroom for the interfering distances to assure no population will be affected by this proposal.

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

EXHIBIT 13 - A1
74.1204(d) Showing
W215CL
West Palm, FL

ERP (kw): 0.16
Height of Antenna above Ground (m): 114
Translator's IX Contour: 121.7
Antenna Type: Nicom BKG77-3HW

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.1600	72.9558	114.000
5	0.974	0.1518	71.0590	107.807
10	0.896	0.1285	65.3684	102.649
15	0.766	0.0939	55.8842	99.536
20	0.609	0.0593	44.4301	98.804
25	0.424	0.0288	30.9333	100.927
30	0.282	0.0127	20.5735	103.713
35	0.142	0.0032	10.3597	108.058
40	0.032	0.0002	2.3346	112.499
45	0.045	0.0003	3.2830	111.679
50	0.092	0.0014	6.7119	108.858
55	0.113	0.0020	8.2440	107.247
60	0.114	0.0021	8.3170	106.797
65	0.104	0.0017	7.5874	107.123
70	0.087	0.0012	6.3472	108.036
75	0.069	0.0008	5.0340	109.138
80	0.053	0.0004	3.8667	110.192
85	0.042	0.0003	3.0641	110.948
90	0.040	0.0003	2.9182	111.082