

Kcbx, Inc.

CH# 236D - 95.1 MHz, Pwr= 0.01 kW, HAAT= 330.4 M, COR= 478 M
Average Protected F(50-50)= 10.6 km
Omni-directional

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DISPLAY DATES
DATA      04-27-13
SEARCH    04-28-13

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CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
236D Lompoc	K236AF	LIC _C_ CA	14.1 194.2	15.79 BLFT20061124AAX	34 44 29.0 120 26 45.0	0.009 227	32.8 384	9.5 Kcbx, Inc.	-28.2*	-33.2
239B1 Orcutt	KPAT	LIC _CX CA	14.1 194.1	15.82 BLH20070814AAE	34 44 30.0 120 26 45.0	3.300 274	3.3 425	47.5 Agm California, Inc.	1.2	-32.0*<--
233B Ellwood	KFYZ	LIC _CY CA	100.0 280.3	49.31 BLH19890214KC	34 31 32.0 119 57 28.0	0.880 899	2.0 1252	57.1 Rincon Broadcasting	36.7	-8.2*<--
236B Ventura	KBBY-FM	LIC _CN CA	112.2 293.0	142.00 BLH19911023KB	34 06 47.0 119 03 34.0	12.500 267	138.9 411	73.1 Cumulus Licensing Llc	-6.7	24.5
237A Pismo Beach	KXTZ	LIC _CN CA	347.6 167.5	62.95 BMLH19911114KA	35 09 24.0 120 38 11.0	4.200 119	57.5 258	38.7 Mapleton License Of	-6.1	7.4 San Lu
235B1 Cayucos	KPYG	LIC _CX CA	333.2 152.8	114.83 BLH20070712ABZ	35 31 26.0 121 03 40.0	25.000 100	84.5 287	64.4 Mapleton License Of	18.7	29.9 San Lu
235D San Luis Obispo	KPYG-FM1	LIC DV_ CA	347.6 167.5	75.18 BLFTB20060522ABQ	35 15 50.0 120 39 59.0	0.900	17.5 159	11.6 Mapleton License Of	46.4	46.1 San Lu
235A Maricopa	KXTT	LIC _CX CA	59.5 240.1	108.41 BLH20090318AAG	35 05 39.0 119 27 40.0	6.000 95	23.5 584	15.8 Lazer Licenses, Llc	73.9	77.6
236A Avenal	KAAX	CP _CN CA	13.4 193.6	160.93 BMPED19960826IA	36 00 40.0 120 04 26.0	0.920 200	68.1 413	22.4 Avenal Educational Service	81.5	98.2
237B1 Oildale	KLLY	LIC _CN CA	54.1 235.0	164.01 BLH19911108KA	35 27 33.0 119 01 13.0	12.500 141	67.9 339	52.1 Buckley Broadcasting Of	84.9	92.8 Ca
236A Gonzales	KMLY	APP ZCX CA	340.7 160.2	218.97 BPH20130411AAK	36 27 34.2 121 17 54.8	6.000 100	119.2 428	48.8 Lazer Licenses, Llc	88.2	130.5

Terrain database is USGS 03 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= East Zone 2A, 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.
<-- These stations are protected using U/D, no population in interference areas.

HOW TO READ THE FM COMPUTER PRINT-OUT

Translator Reference Station

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. The 60 dBu protected contour is predicted from the Commission's F(50-50) table. 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.

All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90. The column labeled "* OUT *" shows the greatest distance in kilometers of overlap (or smallest distance 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. Since translators are able to receive interference there is no "In" or incoming column in this report.

Listed antenna heights and power are the specific antenna heights and power from the FCC database.

Under the "AZI" column, the first row of numbers indicate the True North azimuths 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. Bearings are calculated using spherical trigonometry.

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 the minimum spacings the "OUT" columns change its significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column displays the **available clear space** separation 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".

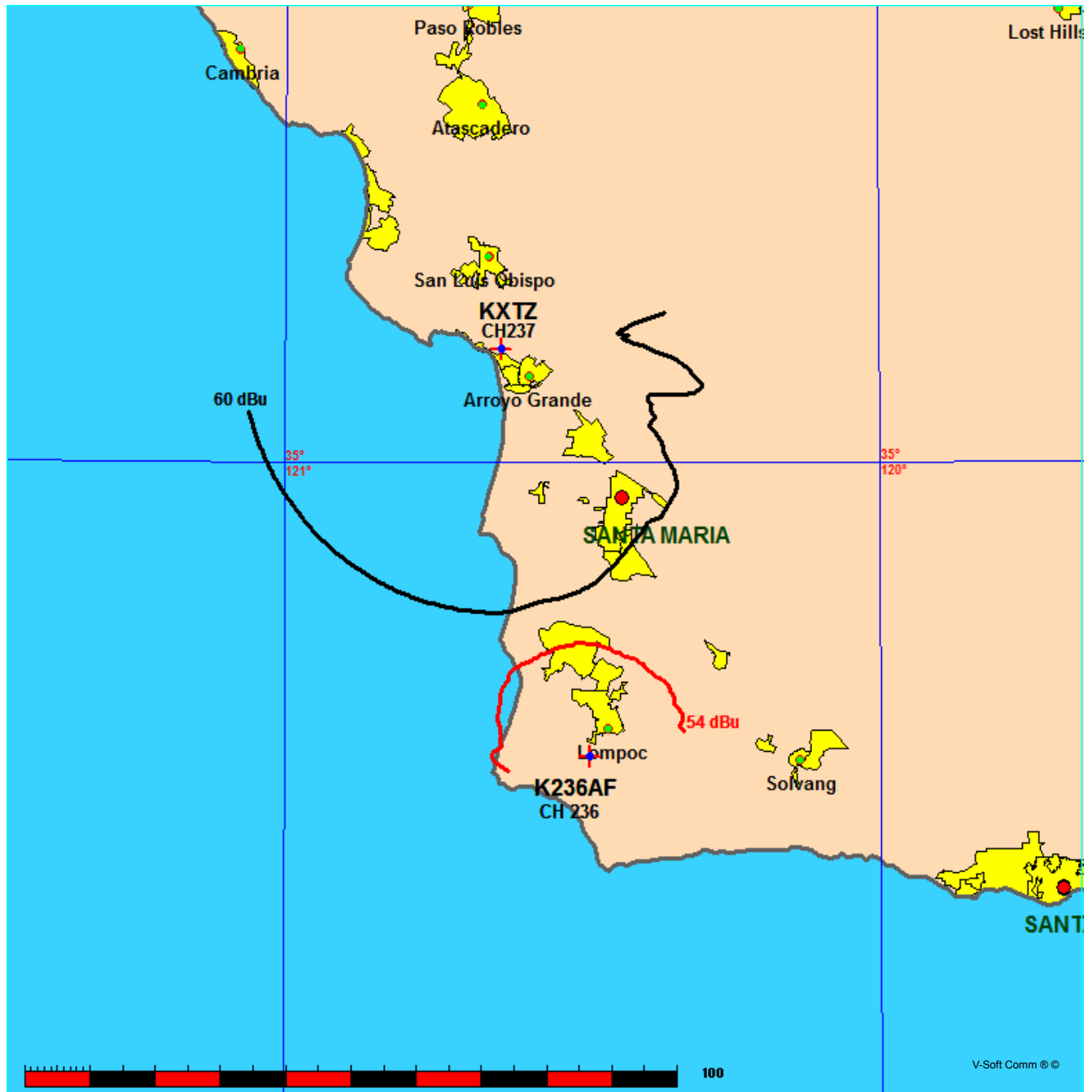
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will 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.

Contour-to-Contour Channel Study - Outgoing Only
Kcbx, Inc.

FMCommander Single Allocation Study - 04-28-2013 - USGS 03 SEC
K236AF's Overlaps (In= -6.13 km, Out= 7.36 km)

K236AF CH 236 D
Lat= 34 36 13.0, Lng= 120 29 17.0
0.01 kW 330.4 M HAAT, 478 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KXTZ CH 237 A BMLH19911114KA
Lat= 35 09 24.0, Lng= 120 38 11.0
4.2 kW 119 M HAAT, 258 M COR
Prot.= 60 dBu, Intef.= 54 dBu



04-28-2013

Terrain Data: USGS 03 SEC

FMOver Analysis

KXTZ BMLH19911114KA

K236AF

Channel = 237A

Max ERP = 4.2 kW

RCAMSL = 258 M

N. Lat. 35 09 24.0

W. Lng. 120 38 11.0

Protected

60 dBu

Channel = 236D

Max ERP = 0.01 kW

RCAMSL = 478 M

N. Lat. 34 36 13.0

W. Lng. 120 29 17.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
108.0	004.2000	0080.6	023.6	009.3	000.0100	0381.5	054.9	33.50	
109.0	004.2000	0082.9	023.9	009.5	000.0100	0380.8	054.4	33.66	
110.0	004.2000	0087.9	024.6	010.1	000.0100	0379.4	053.9	33.82	
111.0	004.2000	0087.4	024.5	010.0	000.0100	0379.9	053.5	33.99	
112.0	004.2000	0088.7	024.7	010.1	000.0100	0379.6	053.0	34.16	
113.0	004.2000	0092.3	025.2	010.5	000.0100	0378.7	052.5	34.33	
114.0	004.2000	0096.8	025.7	011.0	000.0100	0378.2	052.0	34.53	
115.0	004.2000	0097.1	025.8	010.9	000.0100	0378.3	051.5	34.70	
116.0	004.2000	0094.8	025.5	010.4	000.0100	0378.8	051.2	34.85	
117.0	004.2000	0095.1	025.5	010.4	000.0100	0378.9	050.7	35.02	
118.0	004.2000	0104.7	026.7	011.5	000.0100	0377.7	049.9	35.28	
119.0	004.2000	0114.9	027.8	012.6	000.0100	0375.6	049.2	35.52	
120.0	004.2000	0120.6	028.4	013.0	000.0100	0374.1	048.5	35.71	
121.0	004.2000	0126.5	028.9	013.5	000.0100	0372.1	047.9	35.90	
122.0	004.2000	0130.4	029.3	013.7	000.0100	0370.9	047.3	36.10	
123.0	004.2000	0139.2	030.2	014.5	000.0100	0367.6	046.5	36.30	
124.0	004.2000	0151.0	031.3	015.7	000.0100	0372.2	045.6	36.78	
125.0	004.2000	0161.0	032.4	016.7	000.0100	0372.3	044.8	37.13	
126.0	004.2000	0169.0	033.2	017.5	000.0100	0372.1	044.0	37.46	
127.0	004.2000	0175.6	033.9	018.1	000.0100	0372.2	043.2	37.78	
128.0	004.2000	0179.8	034.2	018.3	000.0100	0371.9	042.5	38.06	
129.0	004.2000	0182.1	034.5	018.3	000.0100	0372.0	041.9	38.33	
130.0	004.2000	0183.7	034.6	018.1	000.0100	0372.2	041.3	38.60	
131.0	004.2000	0185.6	034.7	018.0	000.0100	0372.2	040.7	38.87	
132.0	004.2000	0187.4	034.9	017.9	000.0100	0372.3	040.0	39.14	
133.0	004.2000	0188.2	035.0	017.6	000.0100	0372.1	039.4	39.39	
134.0	004.2000	0189.0	035.0	017.3	000.0100	0372.3	038.9	39.65	
135.0	004.2000	0191.1	035.2	017.1	000.0100	0372.3	038.2	39.93	
136.0	004.2000	0193.0	035.4	016.9	000.0100	0372.3	037.6	40.21	
137.0	004.2000	0190.2	035.1	016.1	000.0100	0372.8	037.2	40.42	
138.0	004.2000	0186.7	034.8	015.2	000.0100	0370.0	036.8	40.51	
139.0	004.2000	0184.9	034.7	014.5	000.0100	0367.6	036.4	40.63	
140.0	004.2000	0185.5	034.7	014.0	000.0100	0369.2	035.9	40.92	
141.0	004.2000	0187.7	034.9	013.7	000.0100	0371.0	035.3	41.25	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
142.0	004.2000	0190.0	035.1	013.3	000.0100	0372.9	034.7	41.59
143.0	004.2000	0192.0	035.3	012.9	000.0100	0374.3	034.1	41.90
144.0	004.2000	0193.2	035.4	012.3	000.0100	0376.2	033.6	42.20
145.0	004.2000	0194.1	035.5	011.7	000.0100	0377.1	033.1	42.47
146.0	004.2000	0196.3	035.6	011.2	000.0100	0377.9	032.5	42.77
147.0	004.2000	0199.9	035.9	010.8	000.0100	0378.4	031.9	43.10
148.0	004.2000	0203.2	036.2	010.3	000.0100	0379.0	031.2	43.43
149.0	004.2000	0205.7	036.4	009.6	000.0100	0380.5	030.7	43.77
150.0	004.2000	0208.6	036.6	009.0	000.0100	0381.8	030.1	44.12
151.0	004.2000	0211.1	036.8	008.3	000.0100	0382.2	029.5	44.44
152.0	004.2000	0213.6	037.0	007.5	000.0100	0383.8	029.0	44.79
153.0	004.2000	0215.8	037.2	006.6	000.0100	0388.0	028.5	45.20
154.0	004.2000	0218.7	037.4	005.7	000.0100	0390.0	028.0	45.58
155.0	004.2000	0221.7	037.6	004.8	000.0100	0391.5	027.4	45.95
156.0	004.2000	0225.0	037.8	003.8	000.0100	0393.5	026.9	46.33
157.0	004.2000	0227.8	038.0	002.7	000.0100	0394.3	026.4	46.66
158.0	004.2000	0230.2	038.2	001.6	000.0100	0394.5	026.0	46.95
159.0	004.2000	0232.2	038.3	000.3	000.0100	0393.7	025.6	47.19
160.0	004.2000	0234.2	038.5	359.0	000.0100	0394.7	025.3	47.46
161.0	004.2000	0235.6	038.6	357.6	000.0100	0396.6	025.0	47.71
162.0	004.2000	0236.7	038.6	356.2	000.0100	0400.0	024.7	47.98
163.0	004.2000	0237.3	038.7	354.7	000.0100	0400.9	024.5	48.13
164.0	004.2000	0237.8	038.7	353.1	000.0100	0402.1	024.4	48.27
165.0	004.2000	0238.2	038.7	351.6	000.0100	0398.0	024.3	48.25
166.0	004.2000	0238.4	038.7	350.0	000.0100	0395.7	024.2	48.25
167.0	004.2000	0238.6	038.7	348.4	000.0100	0396.5	024.1	48.30
168.0	004.2000	0238.7	038.8	346.8	000.0100	0396.2	024.1	48.30
169.0	004.2000	0238.5	038.7	345.2	000.0100	0397.1	024.2	48.29
170.0	004.2000	0238.2	038.7	343.6	000.0100	0399.3	024.3	48.29
171.0	004.2000	0238.2	038.7	342.0	000.0100	0399.2	024.4	48.22
172.0	004.2000	0239.2	038.8	340.5	000.0100	0398.0	024.4	48.15
173.0	004.2000	0241.1	038.9	338.9	000.0100	0393.2	024.4	48.01
174.0	004.2000	0243.2	039.0	337.2	000.0100	0391.5	024.5	47.93
175.0	004.2000	0245.9	039.2	335.6	000.0100	0392.5	024.5	47.91
176.0	004.2000	0249.4	039.4	333.9	000.0100	0397.7	024.6	48.02
177.0	004.2000	0253.0	039.6	332.3	000.0100	0396.8	024.7	47.95
178.0	004.2000	0255.1	039.8	330.7	000.0100	0395.5	024.8	47.79
179.0	004.2000	0256.6	039.9	329.2	000.0100	0395.7	025.1	47.61
180.0	004.2000	0257.7	039.9	327.8	000.0100	0396.5	025.4	47.43
181.0	004.2000	0258.0	040.0	326.4	000.0100	0399.2	025.8	47.25
182.0	004.2000	0258.0	040.0	325.2	000.0100	0402.2	026.2	47.05
183.0	004.2000	0258.0	040.0	324.0	000.0100	0405.7	026.6	46.85
184.0	004.2000	0258.0	040.0	322.9	000.0100	0406.5	027.0	46.58
185.0	004.2000	0258.0	040.0	321.8	000.0100	0407.9	027.5	46.32
186.0	004.2000	0258.0	040.0	320.8	000.0100	0409.5	028.0	46.05
187.0	004.2000	0258.0	040.0	319.8	000.0100	0411.7	028.5	45.80
188.0	004.2000	0258.0	040.0	318.9	000.0100	0414.5	029.0	45.56
189.0	004.2000	0258.0	040.0	318.0	000.0100	0417.1	029.5	45.32
190.0	004.2000	0258.0	040.0	317.2	000.0100	0418.4	030.1	45.04
191.0	004.2000	0258.0	040.0	316.4	000.0100	0419.3	030.7	44.76
192.0	004.2000	0258.0	040.0	315.7	000.0100	0418.0	031.2	44.42

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
193.0	004.2000	0258.0	040.0	315.0	000.0100	0415.6	031.8	44.07
194.0	004.2000	0258.0	040.0	314.4	000.0100	0412.5	032.4	43.70
195.0	004.2000	0258.0	040.0	313.8	000.0100	0409.5	033.0	43.33
196.0	004.2000	0258.0	040.0	313.2	000.0100	0406.4	033.6	42.96
197.0	004.2000	0258.0	040.0	312.7	000.0100	0404.0	034.3	42.61
198.0	004.2000	0258.0	040.0	312.2	000.0100	0401.8	034.9	42.25
199.0	004.2000	0258.0	040.0	311.8	000.0100	0399.8	035.5	41.90
200.0	004.2000	0258.0	040.0	311.4	000.0100	0398.3	036.2	41.56
201.0	004.2000	0258.0	040.0	311.0	000.0100	0397.5	036.8	41.24
202.0	004.2000	0258.0	040.0	310.6	000.0100	0396.7	037.5	40.92
203.0	004.2000	0258.0	040.0	310.3	000.0100	0396.1	038.1	40.61
204.0	004.2000	0258.0	040.0	310.0	000.0100	0395.6	038.8	40.30
205.0	004.2000	0258.0	040.0	309.7	000.0100	0395.2	039.5	39.99
206.0	004.2000	0258.0	040.0	309.5	000.0100	0394.9	040.2	39.68
207.0	004.2000	0258.0	040.0	309.3	000.0100	0394.7	040.8	39.38
208.0	004.2000	0258.0	040.0	309.1	000.0100	0394.6	041.5	39.09
209.0	004.2000	0258.0	040.0	308.9	000.0100	0394.5	042.2	38.79
210.0	004.2000	0258.0	040.0	308.8	000.0100	0394.4	042.9	38.50
211.0	004.2000	0258.0	040.0	308.7	000.0100	0394.4	043.6	38.22
212.0	004.2000	0258.0	040.0	308.6	000.0100	0394.4	044.3	37.93
213.0	004.2000	0258.0	040.0	308.5	000.0100	0394.4	045.0	37.65
214.0	004.2000	0258.0	040.0	308.4	000.0100	0394.3	045.7	37.37
215.0	004.2000	0258.0	040.0	308.3	000.0100	0394.3	046.4	37.10
216.0	004.2000	0258.0	040.0	308.3	000.0100	0394.3	047.1	36.83
217.0	004.2000	0258.0	040.0	308.3	000.0100	0394.3	047.7	36.56
218.0	004.2000	0258.0	040.0	308.3	000.0100	0394.3	048.4	36.30
219.0	004.2000	0258.0	040.0	308.3	000.0100	0394.3	049.1	36.03
220.0	004.2000	0258.0	040.0	308.3	000.0100	0394.3	049.8	35.77
221.0	004.2000	0258.0	040.0	308.3	000.0100	0394.3	050.5	35.50
222.0	004.2000	0258.0	040.0	308.4	000.0100	0394.3	051.2	35.24
223.0	004.2000	0258.0	040.0	308.5	000.0100	0394.4	051.9	34.98
224.0	004.2000	0258.0	040.0	308.5	000.0100	0394.4	052.6	34.71
225.0	004.2000	0258.0	040.0	308.6	000.0100	0394.4	053.3	34.45
226.0	004.2000	0258.0	040.0	308.7	000.0100	0394.4	054.0	34.19
227.0	004.2000	0258.0	040.0	308.8	000.0100	0394.4	054.7	33.92