

Special Displacement Window Application

LPTV or Translator Facility: KCWL-LD Facility ID 184070 Monroe, LA
Licensed Ch. 40 File# 0000029847

Nature of Displacement: Within 600 MHz wireless spectrum

Proposed Facility: Ch. 24 15 kW ERP nondirectional

Modification Compliance: 0.0 km from licensed site
Contour comparison in Figure 1
TVStudy Analysis report in Table 1

Contingent Application Rule: No waiver required, not dependent on spectrum to be vacated

RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 4.7 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate worst-case 100 percent relative field at downward angles. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E. May 8, 2018
207 Old Dominion Road Yorktown, VA 23692 703-650-9600



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 1
KCWL-LD Monroe, LA
Facility ID 184070
Ch. 24 (digital) 15 kW

prepared for
Gray Television Licensee, LLC

May, 2018

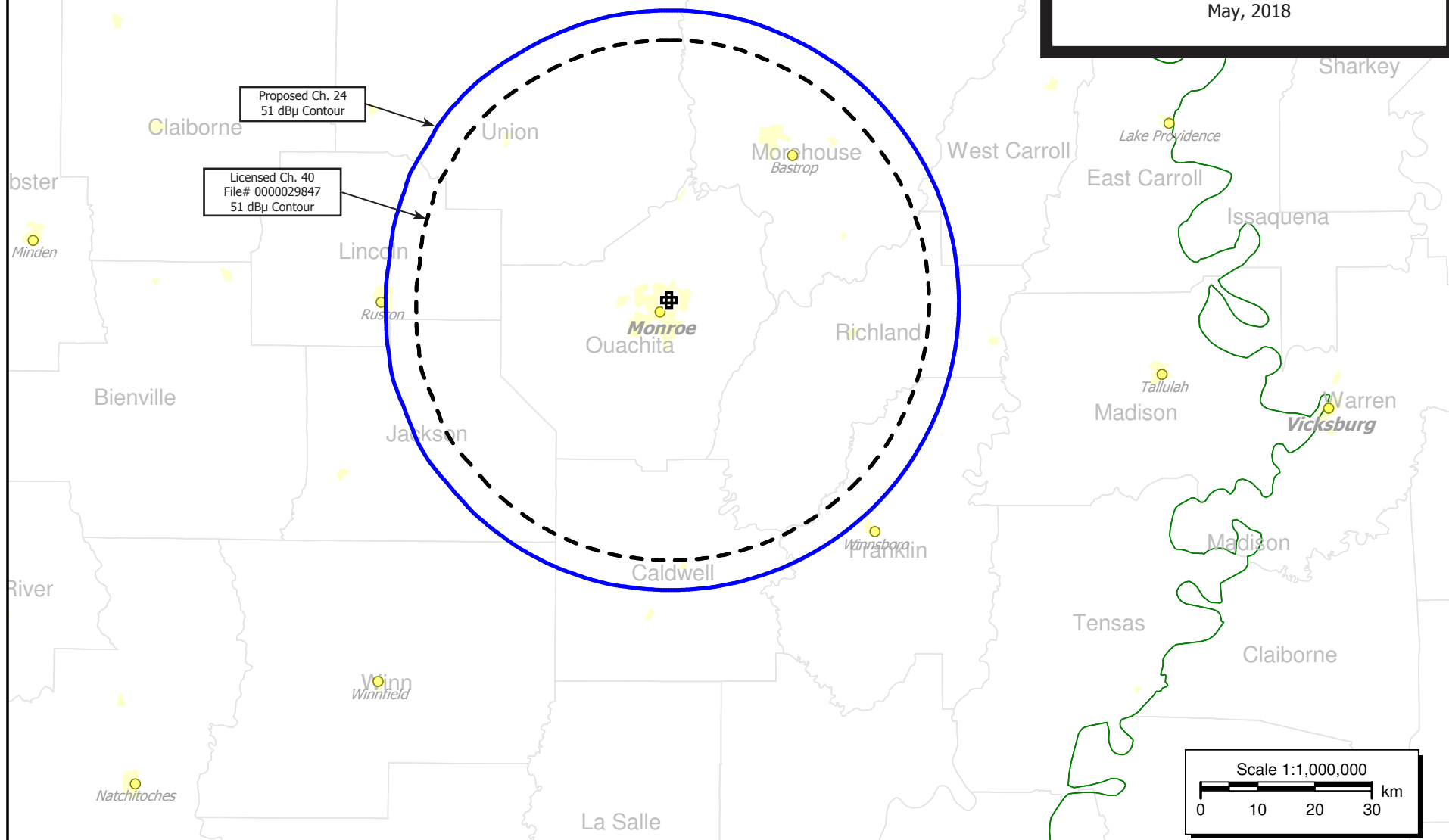


Table 1 KCWL-LD TVStudy Analysis of Proposal (page 1 of 4)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KCWL-LD Ch-24 all #6743, Model: Longley-Rice
Start: 2018.05.08 09:06:26

Study created: 2018.05.08 09:06:25

Study build station data: LMS TV 2018-05-08

Proposal: KCWL-LD D24 LD APP MONROE, LA
File number: KCWL-LD Ch-24
Facility ID: 184070
Station data: User record
Record ID: 2004
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KWMS-LP	N17z	TX	LIC	WEST MONROE, LA	BLTTL20100708HIZ	3.6 km
No	KLMB-CD	D23z	DC	LIC	EL DORADO, AR	BLANK0000004909	91.3
No	K23MM-D	D23	LD	LIC	ALEXANDRIA, LA	BLANK0000014074	139.3
No	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	245.7
No	KSLA	D23	DT	CP	SHREVEPORT, LA	BLANK0000034150	172.2
No	WWJX	D23	DT	LIC	JACKSON, MS	BLCDT20110824ABD	173.8
No	KFSM-TV	D24	LD	LIC	FORT SMITH, AR	BLCDT20110517AEQ	382.6
No	K30MF-D	D24	LD	APP	JONESBORO, AR	BLANK0000053060	406.6
No	KPMF-LD	D24	LD	APP	PARAGOUL, AR	BLANK0000051654	373.2
Yes	KVTN-DT	D24	DT	LIC	PINE BLUFF, AR	BLCDT20071231AFB	222.8
No	KLIA-LD	D24	LD	APP	TEXARKANA, AR	BLANK0000052927	171.8
No	WSRE	D24	DT	CP	PENSACOLA, FL	BLANK0000027900	475.9
No	K24LJ-D	D24	LD	CP	ALEXANDRIA, LA	BNPDTL20100511ABM	147.4
Yes	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	256.9
No	W24DX-D	D24	LD	CP	IOWA, LA	BNPDTL20100407ABU	265.2
No	KFAM-CD	D24	DC	CP	LAKE CHARLES, LA	BLANK0000028592	280.9
Yes	KLTS-TV	D24	DT	LIC	SHREVEPORT, LA	BLEDT20100216ABQ	171.5
No	WUPL	D24	DT	LIC	SLIDELL, LA	BLCDT20040812AAA	350.7
No	W39CA-D	D24	DC	CP	FULTON, MS	BLANK0000028855	395.5
No	W24EJ-D	D24	LD	CP	GREENVILLE, MS	BNPDTL20101018ACW	141.2
No	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	320.7
No	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	320.7
No	K24KQ-D	D24	LD	CP	BEAUMONT, TX	BNPDTT20090825BRG	319.6
No	KXAS-TV	D24	DT	CP	FORT WORTH, TX	BLANK0000034936	455.9
No	KETH-TV	D24	DT	LIC	HOUSTON, TX	BLEDT20101019ABX	461.8
No	KIBN-LD	D24	LD	APP	LUFKIN, TX	BLANK0000051785	282.5
No	KXIP-LD	D24	LD	LIC	PARIS, TX	BLDTL20130924AGN	349.0
No	K46KW-D	D24	LD	APP	TYLER, TX	BLANK0000051815	297.9
No	K25NT-D	D25	LD	CP	EL DORADO, AR	BNPDTL20101020AAN	99.9
No	WLPB-TV	D25	DT	APP	BATON ROUGE, LA	BLANK0000035855	254.2
No	WLPB-TV	D25	DT	LIC	BATON ROUGE, LA	BLEDT20101201ALR	254.2
Yes	K25MH-D	D25	LD	CP	MONROE, LA	BNPDTL20100510AED	8.7
No	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	173.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24
Mask: Full Service
Latitude: 32 31 40.00 N (NAD83)
Longitude: 92 6 8.70 W
Height AMSL: 236.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic

Table 1 KCWL-LD TVStudy Analysis of Proposal
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Elec Tilt: 1.50

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	214.9 m	52.1 km
45.0	15.0	211.3	51.9
90.0	15.0	214.4	52.1
135.0	15.0	217.0	52.2
180.0	15.0	214.4	52.1
225.0	15.0	209.9	51.8
270.0	15.0	195.4	51.0
315.0	15.0	217.5	52.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 212 m

Distance to Canadian border: 1308.5 km

Distance to Mexican border: 865.2 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 75.8 degrees Distance: 702.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 309.4 degrees Distance: 1444.1 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLCDT20071231AFB LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVTN-DT	D24	DT	LIC	PINE BLUFF, AR	BLCDT20071231AFB	
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	222.8 km
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	24908.9	937,055	24433.9	926,886	24433.9	926,886	24427.0 926,396 0.03 0.05
Undesired				Total IX	Unique IX, before	Unique IX, after	
KCWL-LD D24 LD APP			6.9	490		6.9 490	

Interference to BLANK0000027707 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	256.9 km
	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	96.6
	WLAE-TV	D23	DT	CP	NEW ORLEANS, LA	BLANK0000027977	132.9
	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	331.2
	WLPB-TV	D25	DT	APP	BATON ROUGE, LA	BLANK0000035855	8.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	30389.9	1,747,863	30329.9	1,747,790	30273.9	1,747,279	30260.7 1,747,252 0.04 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KCWL-LD D24 LD APP			22.4	91		13.2 27	
KLPB-TV D23 DT LIC			3.0	0	3.0	0	3.0 0
WLAE-TV D23 DT CP			1.0	0	1.0	0	1.0 0
WMDN D24 DT APP			28.5	110	28.5	110	19.3 46
WLPB-TV D25 DT APP			23.4	401	23.4	401	23.4 401

Table 1 KCWL-LD TVStudy Analysis of Proposal
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Interference to BLANK0000027707 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	256.9 km
	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	96.6
	WLAE-TV	D23	DT	CP	NEW ORLEANS, LA	BLANK0000027977	132.9
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	331.2
	WLPB-TV	D25	DT	APP	BATON ROUGE, LA	BLANK0000035855	8.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
30389.9 1,747,863		30329.9 1,747,790		30288.1 1,747,382		30272.9 1,747,291	0.05 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
KCWL-LD D24 LD APP		22.4 91				15.3 91	
KLPB-TV D23 DT LIC		3.0 0		3.0 0		3.0 0	
WLAE-TV D23 DT CP		1.0 0		1.0 0		1.0 0	
WMDN D24 DT LIC		14.2 7		14.2 7		7.1 7	
WLPB-TV D25 DT APP		23.4 401		23.4 401		23.4 401	

Interference to BLANK0000027707 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	256.9 km
	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	96.6
	WLAE-TV	D23	DT	CP	NEW ORLEANS, LA	BLANK0000027977	132.9
	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	331.2
	WLPB-TV	D25	DT	LIC	BATON ROUGE, LA	BLEDT20101201ALR	8.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
30389.9 1,747,863		30329.9 1,747,790		30289.2 1,747,670		30275.9 1,747,643	0.04 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KCWL-LD D24 LD APP		22.4 91				13.2 27	
KLPB-TV D23 DT LIC		3.0 0		3.0 0		3.0 0	
WLAE-TV D23 DT CP		1.0 0		1.0 0		1.0 0	
WMDN D24 DT APP		28.5 110		28.5 110		19.3 46	
WLPB-TV D25 DT LIC		8.2 10		8.2 10		8.2 10	

Interference to BLANK0000027707 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGMB-TV	D24	DT	CP	BATON ROUGE, LA	BLANK0000027707	
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	256.9 km
	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	96.6
	WLAE-TV	D23	DT	CP	NEW ORLEANS, LA	BLANK0000027977	132.9
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	331.2
	WLPB-TV	D25	DT	LIC	BATON ROUGE, LA	BLEDT20101201ALR	8.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
30389.9 1,747,863		30329.9 1,747,790		30303.4 1,747,773		30288.2 1,747,682	0.05 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
KCWL-LD D24 LD APP		22.4 91				15.3 91	
KLPB-TV D23 DT LIC		3.0 0		3.0 0		3.0 0	
WLAE-TV D23 DT CP		1.0 0		1.0 0		1.0 0	
WMDN D24 DT LIC		14.2 7		14.2 7		7.1 7	
WLPB-TV D25 DT LIC		8.2 10		8.2 10		8.2 10	

Interference to BLEDT20100216ABQ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLTS-TV	D24	DT	LIC	SHREVEPORT, LA	BLEDT20100216ABQ	
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	171.5 km
	KVTN-DT	D24	DT	LIC	PINE BLUFF, AR	BLCDT20071231AFB	269.8

Table 1 KCWL-LD TVStudy Analysis of Proposal
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KETH-TV	D24	DT	LIC	HOUSTON, TX		BLEDT20101019ABX		376.8	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27327.1	881,625	27208.0	880,467	27119.1	880,222	26951.9	877,258	0.62	0.34
Undesired			Total IX	Unique IX, before		Unique IX, after			
KCWL-LD	D24	LD APP	220.1	3,103		167.1	2,964		
KVTN-DT	D24	DT LIC	85.9	245	85.9	245	33.9	106	
KETH-TV	D24	DT LIC	3.0	0	3.0	0	2.0	0	

Interference to BNPDTL20100510AED CP scenario 1

Desired:	Call K25MH-D	Chan D25	Svc LD	Status CP	City, State MONROE, LA	File Number BNPDTL20100510AED	Distance		
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	8.7 km		
	WLPB-TV	D25	DT	APP	BATON ROUGE, LA	BLANK0000035855	253.6		
	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	182.0		
	W26BB	N26+	TX	LIC	VICKSBURG, MS	BLTTL19940527JF	127.6		
Service area 2250.5 154,123		Terrain-limited 2250.5 154,123		IX-free, before 2244.5 154,123		IX-free, after 2202.5 154,070		Percent New IX 1.87 0.03	
Undesired				Total IX	Unique IX, before		Unique IX, after		
KCWL-LD	D24	LD	APP	46.0	53	42.0		53	
WLPB-TV	D25	DT	APP	1.0	0	0.0	0	0.0	0
WMAO-TV	D25	DT	LIC	6.0	0	5.0	0	1.0	0

Interference to BNPDTL20100510AED CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	K25MH-D	D25	LD	CP	MONROE, LA	BNPDTL20100510AED		
Undesireds:	KCWL-LD	D24	LD	APP	MONROE, LA	KCWL-LD Ch-24	8.7 km	
	WLPB-TV	D25	DT	LIC	BATON ROUGE, LA	BLEDT20101201ALR	253.6	
	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	182.0	
	W26BB	N26+	TX	LIC	VICKSBURG, MS	BLTTL19940527JF	127.6	
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX	
2250.5	154,123	2250.5	154,123	2244.5	154,123	2202.5	154,070	1.87 0.03
Undesired				Total IX	Unique IX, before		Unique IX, after	
KCWL-LD	D24	LD	APP	46.0	53	42.0	53	
WLPB-TV	D25	DT	LIC	1.0	0 0.0 0	0.0	0	
WMAO-TV	D25	DT	LIC	6.0	0 5.0 0	1.0	0	

Interference to proposal scenario 1

Desired:	Call KCWL-LD	Chan D24	Svc LD	Status APP	City, State MONROE, LA	File Number KCWL-LD Ch-24	Distance	
Undesireds:	KVTN-DT WMDN	D24 D24	DT DT	LIC APP	PINE BLUFF, AR MERIDIAN, MS	BLCDT20071231AFB BLANK0000035927	222.8 km 320.7	
Service area		Terrain-limited			IX-free	Percent IX		
8460.1	249,019	8459.1	249,019		8456.1	249,019	0.04 0.00	
Undesired				Total IX	Unique IX	Prcnt Unique IX		
KVTN-DT	D24	DT	LIC	3.0	0	3.0	0	0.04 0.00