TEST DATA

Model Name			: VX-180U/160U	
FCC ID			: K66VX-160U	
Serial Number			: 1D010191	
Specification is Referenced			: EIA/TIA-603 RSS119	
Type			: D	
Emission Type			: 16K0F3E/11K0F3E	
Channel Spacing			: 25 / 12.5	[kHz]
Description			: Portable	
Mode			: FM	
Test Voltage	Nominal		: 7.2	[V]
	Extrem	*.85	: 6.1	[V]
		*1.15	: 8.3	[V]
Temperature	Nominal		: 25	[℃]
	Extrem		: -30 - +60	[℃]
Test Frequency	1	TX	: 490.0100	[MHz]
		RX	: 490.0100	[MHz]
				[MHz]
				[MHz]
				[MHz]
				[MHz]
				[MHz]
				[MHz]
				[MHz]
1st IF Frequency				
		RX	: 44.25	[MHz]
2nd IF Frequency				
		RX	: 0.45	[kHz]
Microphone Impedance			: 2000	[Ω]
Speaker Impedance			: 4	[Ω]
Manufacturer			: VERTEX STANDARD CO., LTD.	
Test Operator			: M.Kurihara	
Test Date		Start	: 2001/7/2	
		Finish	: 2001/7/5	

VX-180U/160U Channel Settings

CH No.	Shown on LCD	Transmit Frequency [MHz]	Receive Frequency [MHz]	CH Spacing	Power	
					High (default)	Low (press ACC)
1	49001WH	490.01	490.01	25k	5W	
2	49001WL	490.01	490.01	25k	1W	
3	49001NH	490.01	490.01	12.5k	5W	
4	49001NL	490.01	490.01	12.5k	1W	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Model Name	:VX-180U/160U
FCC ID	:K66VX-160U
Serial Number	:1D010191

Emission Type	:16K0F3E/11K0F3E
Channel Spacing	:25 / 12.5 [kHz]
Band Type	:D

Carrier Power Output Rating (PARAGRAPH 2.2.1)

Carrier Frequency [MHz]	RF Power HIGH [W]	RF Power LOW 1 [W]	RF Power LOW 2 [W]	RF Power LOW 3 [W]
490.010	4.98	1.15		
0.000				
0.000				

Model Name	:VX-180U/160U	Emission Type	:16K0F3E/11K0F3E
FCC ID	:K66VX-160U	Channel Spacing	:25 / 12.5 [kHz]
Serial Number	:1D010191	Band Type	:D

Conducted Spurious Emission (PARAGRAPH 2.2.13) POWER: HIGH

	Carrier Freq							
	490.010 MHz							
	Emission Frequency [MHz]	Spurious Attenuation [dBm]						
2nd	980.02	-38.00						
3rd	1470.03	Noise Floor						
4th	1960.04	Noise Floor						
5th	2450.05	Noise Floor						
6th	2940.06	Noise Floor						
7th	3430.07	Noise Floor						
8th	3920.08	Noise Floor						
9th	4410.09	Noise Floor						
10th	4900.10	Noise Floor						

POWER: LOW

	Carrier Freq							
	490.010 MHz							
	Emission Frequency [MHz]	Spurious Attenuation [dBm]						
2nd	980.02	Noise Floor						
3rd	1470.03	Noise Floor						
4th	1960.04	Noise Floor						
5th	2450.05	Noise Floor						
6th	2940.06	Noise Floor						
7th	3430.07	Noise Floor						
8th	3920.08	Noise Floor						
9th	4410.09	Noise Floor						
10th	4900.10	Noise Floor						

Field Strength of Spurious Radiation (PARAGRAPH 2.2.12) POWER: HIGH

490.010 MHz						
Emission Frequency [MHz]	ERP S/G level [dBm]	Cable Loss [dB]	Correction Factor (ref. to 1/2 dipole) [dB]	Emission level [dBm]	Limit Mask D [dBm]	Margin [dB]
980.02	-71.44	2.97	32.37	-36.10	-20.00	16.10
1470.03	-35.17	3.56	1.01	-30.60	-20.00	10.60
1960.04	-35.80	4.39	3.11	-28.30	-20.00	8.30
2450.05	-35.17	4.94	9.13	-21.10	-20.00	1.10
2940.06	-41.50	5.78	6.22	-29.50	-20.00	9.50
3430.07	-47.16	6.66	11.80	-28.70	-20.00	8.70
3920.08	-51.34	6.67	6.67	-38.00	-20.00	18.00
4410.09	Noise floor			<-40		
4900.10	Noise floor			<-40		

POWER: LOW

490.010 MHz						
Emission Frequency [MHz]	ERP S/G level [dBm]	Cable Loss [dB]	Correction Factor (ref. to 1/2 dipole) [dB]	Emission level [dBm]	Limit Mask D [dBm]	Margin [dB]
980.02	-70.44	2.97	32.37	-35.10	-20.00	15.10
1470.03	-44.77	3.56	1.01	-40.20	-20.00	20.20
1960.04	-45.50	4.39	3.11	-38.00	-20.00	18.00
2450.05	-41.07	4.94	9.13	-27.00	-20.00	7.00
2940.06	Noise floor			<-40		
3430.07	Noise floor			<-40		
3920.08	Noise floor			<-40		
4410.09	Noise floor			<-40		
4900.10	Noise floor			<-40		

Model Name	:VX-180U/160U	Emission Type	:16K0F3E/11K0F3E
FCC ID	:K66VX-160U	Channel Spacing	:25 / 12.5 [kHz]
Serial Number	:1D010191	Band Type	:D

Conducted Spurious Emission
(PARAGRAPH 2.1.2)

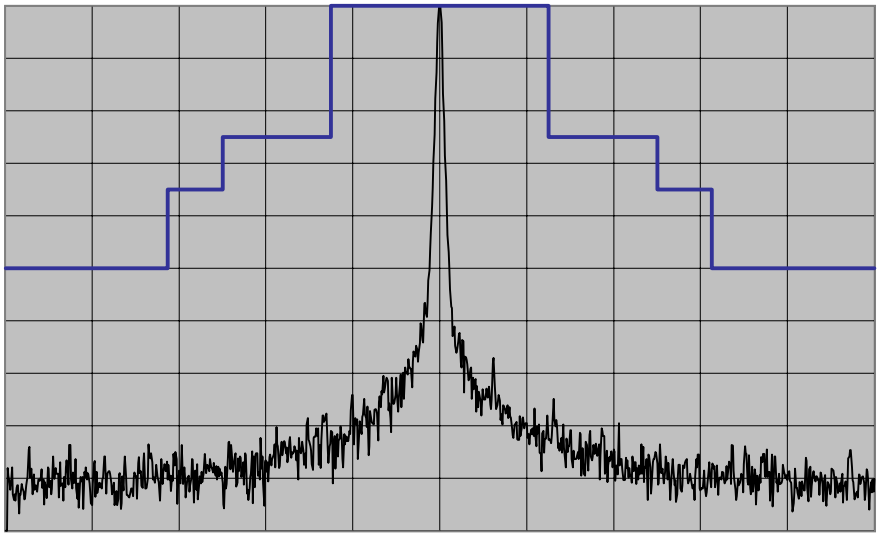
Frequency Tuned [MHz]	Frequency Emission [MHz]	Level [nW]
490.0100	445.7000	0.0200

Field Strength of Spurious Radiation From Internal Radiators (PARAGRAPH 2.1.1)

	490.010	MHz							
Frequency Tuned [MHz]	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth [deg]	Antenna Hight [m]	Analyzer Reading [dBuV]	Correction Factor [dB/m]	Emission level [dBuV/m]	Limit [dBuV/m]	Margin [dB]
442.3740	QP	V	20.00	1.00	45.60	-4.20	41.40	46.00	4.60

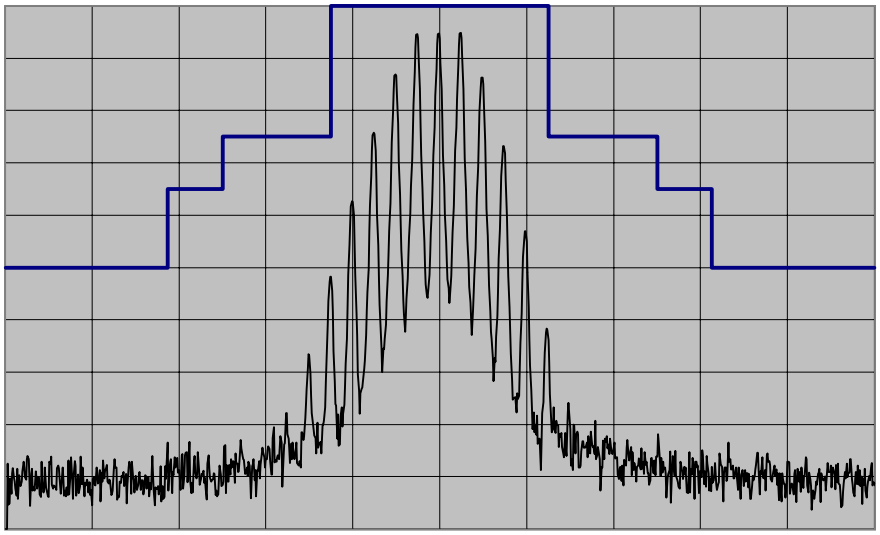
Occupied Bandwidth

CENTER FREQ	490.009 MHz
SPAN	100 KHz
REF LEVEL	36.4 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	300 Hz
VIDEO BW	300 Hz
SWEEP TIME	5 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	High	Modulation	None

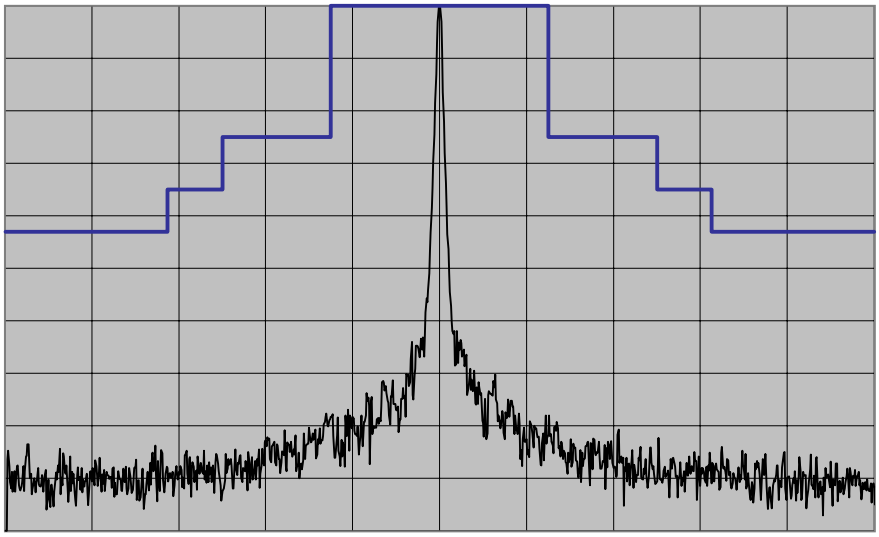
CENTER FREQ	490.009 MHz
SPAN	100 KHz
REF LEVEL	36.4 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	300 Hz
VIDEO BW	300 Hz
SWEEP TIME	5 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	High	Modulation	Voice

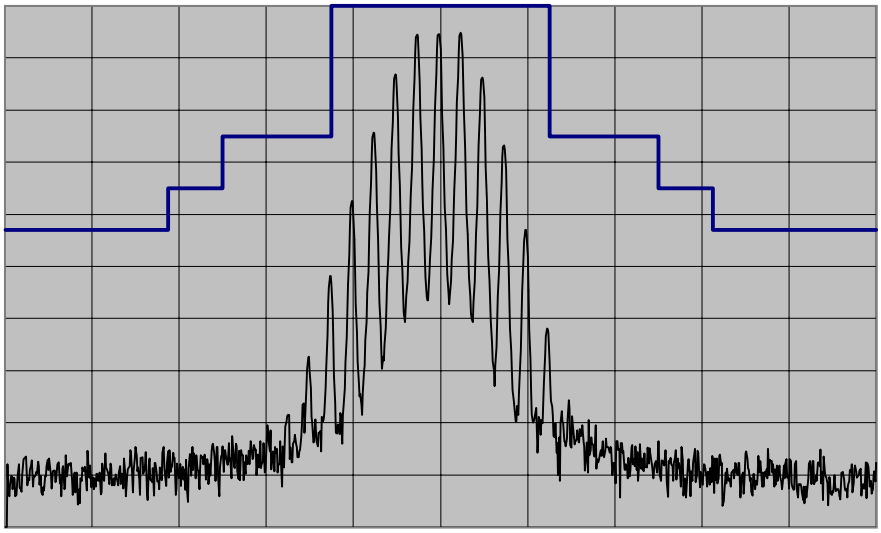
Occupied Bandwidth

CENTER FREQ	490.009 MHz
SPAN	100 KHz
REF LEVEL	30.5 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	300 Hz
VIDEO BW	300 Hz
SWEEP TIME	5 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	Low	Modulation	None

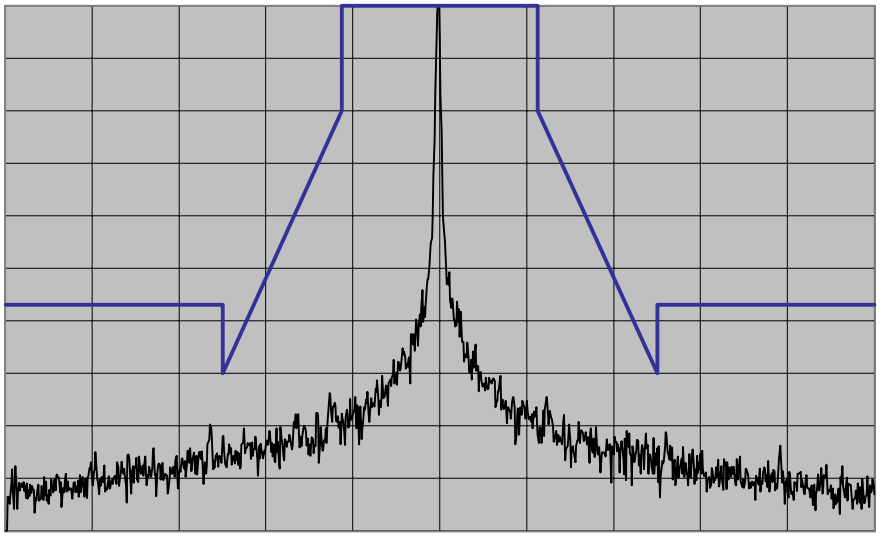
CENTER FREQ	490.009 MHz
SPAN	100 KHz
REF LEVEL	30.5 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	300 Hz
VIDEO BW	300 Hz
SWEEP TIME	5 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	25 kHz
Power Setting	Low	Modulation	Voice

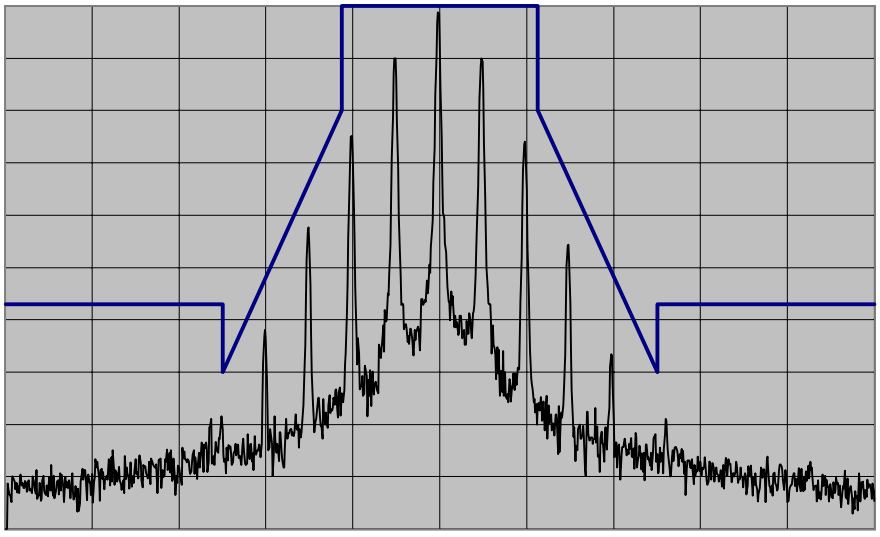
Occupied Bandwidth

CENTER FREQ	490.0094 MHz
SPAN	50 KHz
REF LEVEL	36.3 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	100 Hz
VIDEO BW	100 Hz
SWEEP TIME	30 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	High	Modulation	None

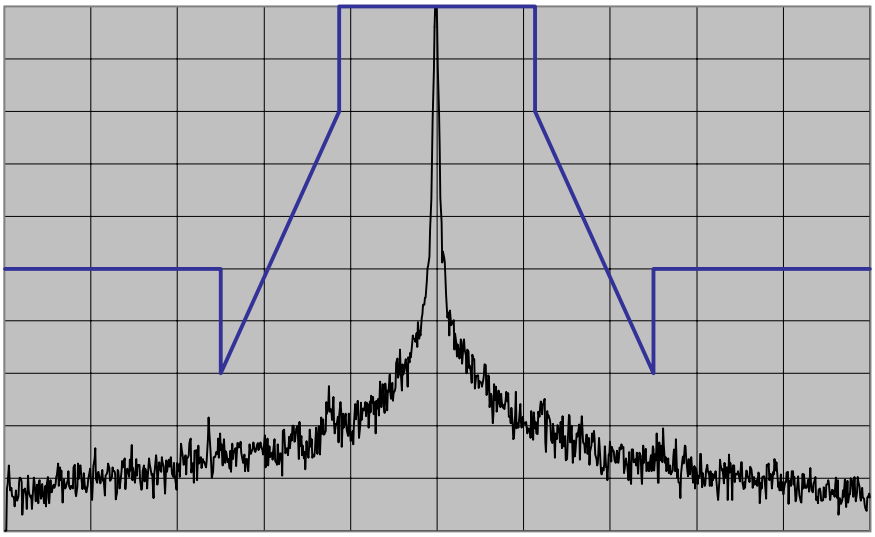
CENTER FREQ	490.0093 MHz
SPAN	50 KHz
REF LEVEL	36.3 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	100 Hz
VIDEO BW	100 Hz
SWEEP TIME	30 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	High	Modulation	Voice

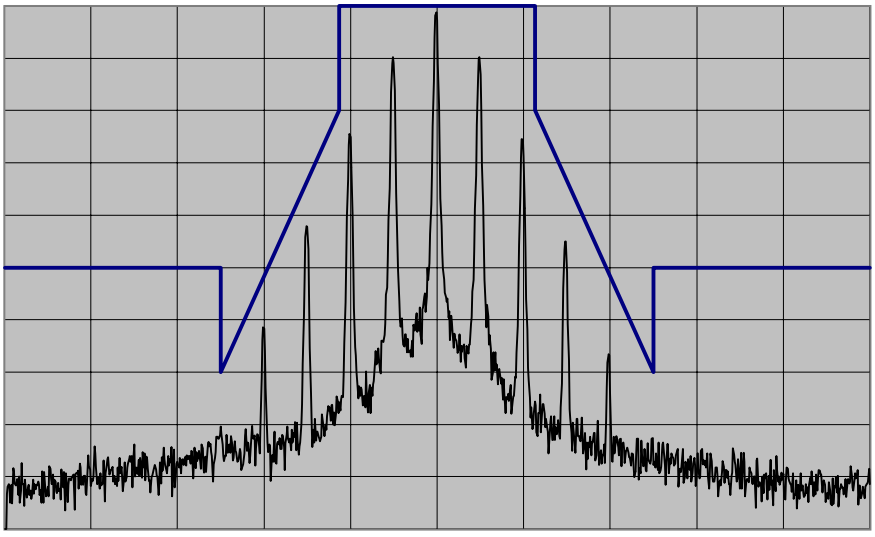
Occupied Bandwidth

CENTER FREQ	490.0094 MHz
SPAN	50 KHz
REF LEVEL	30.4 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	100 Hz
VIDEO BW	100 Hz
SWEEP TIME	30 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	Low	Modulation	None

CENTER FREQ	490.0094 MHz
SPAN	50 KHz
REF LEVEL	30.4 dBm
/DIV	10 dB/
ATT	20 dB
OFFSET	36.8 dB
RES BW	100 Hz
VIDEO BW	100 Hz
SWEEP TIME	30 s
AVG	



Model Name	VX-180U	Transmit Frequency	490.01 MHz
Serial Number	1D010191	Channel Spacing	12.5 kHz
Power Setting	Low	Modulation	Voice