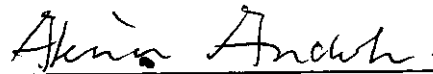


3. Certification{2.909}

Certification of Measurement Data of Transceiver

Type MT-254XF0R6A Handheld Cellular Personal Radio System

I certify that the data contained in this technical data was collected under my supervision and at my request. To the best of my knowledge and belief, the facts set forth herein are true and correct.



Akira Andoh

Manager

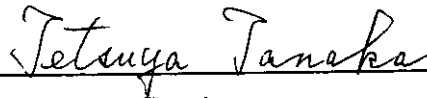
Radio Terminal Engineering Department

North America Radio Terminal Business Department

Mobile Communication Business Division

Mitsubishi Electric Corporation

I certify that the data contained in this technical data was measured and listed by me. To the best of my knowledge and belief, the facts set forth herein are true and correct.



Tetsuya Tanaka

Radio Terminal Engineering Department

North America Radio Terminal Business Department

Mobile Communication Business Division

Mitsubishi Electric Corporation

4. Statement of Qualification

Name: Akira Andoh
Born: June 19, 1955
Education: Bachelor of Engineering
Experience: 20 years

Name: Tetsuya Tanaka
Born: March 30, 1967
Education: Bachelor of Engineering
Experience: 10 years

5. Measurement Data For Transmitter {2.983(e)}

5.1 Radio Frequency Power Output Measurement Data {2.985(a)}
(800MHz Analog, 800MHz Digital, 1900MHz Digital)

5.1.1 Radio Frequency Power Output Measurement Data

5.1.2 Radio Frequency Power Output with Voltage Variation Measurement Data

5.2 Modulation Characteristics {2.987(a)(d)}

5.2.1 Transmitter Audio Frequency Response (800MHz Analog)

5.2.2 Post Limiter Filter Attenuation (800MHz Analog)

5.2.3 Modulation Limiting (800MHz Analog)

5.3 Occupied Bandwidth Measurement Data {2.989 (c) (h)}
(800MHz Analog, 800MHz Digital, 1900MHz Digital)

5.4 Spurious Emissions at Antenna Terminal Measurement Data {2.991}
(800MHz Analog, 800MHz Digital, 1900MHz Digital)

5.5 Field Strength of Spurious Emissions Measurement Data {2.993}
(800MHz Analog, 800MHz Digital, 1900MHz Digital)

5.6 Frequency Stability Measurement Data {2.995}
(800MHz Analog, 800MHz Digital, 1900MHz Digital)

5.6.1 Frequency Stability with Voltage Variation Measurement Data

5.6.2 Frequency Stability with Temperature Variation Measurement Data

5.7 Measurement Data for Transmitter {SAR}

5. Measurement Data For Transmitter {2.983(e)}

5.1 Radio Frequency Power Output Measurement Data {2.985(a)} (800MHz Analog, 800MHz Digital, 1900MHz Digital)

5.1.1 Radio Frequency Power Output Measurement Data

Power Level	Limit		Measured Peak Output Power [dBm]		
	Nominal Peak Output Power [dBm]	Tolerance [dB]	991ch	384ch	799ch
			824.04MHz	836.52MHz	848.97MHz
0	26.0	+3.8 / -2.2	26.0	26.2	25.9
1	26.0	+3.8 / -2.2	26.0	26.2	26.0
2	26.0	+3.8 / -2.2	26.0	26.4	26.0
3	23.8	+2 / -4	22.7	22.8	22.2
4	19.8	+2 / -4	19.5	19.0	18.5
5	15.8	+2 / -4	16.0	15.1	14.6
6	11.8	+2 / -4	11.8	11.2	10.9
7	7.8	+2 / -4	8.4	7.6	7.1

Table 5.1.1.1 Radio Frequency Power Output Measurement Data (800MHz Analog)

Power Level	Limit		Measured Peak Output Power [dBm]		
	Nominal Peak Output Power [dBm]	Tolerance [dB]	991ch	384ch	799ch
			824.04MHz	836.52MHz	848.97MHz
0	26.8	+3 / -3	26.8	26.9	26.2
1	26.8	+3 / -3	26.8	26.9	26.2
2	26.8	+3 / -3	26.9	27.0	26.3
3	23.8	+2 / -4	23.5	23.5	23.1
4	19.8	+2 / -4	19.6	19.7	19.2
5	15.8	+2 / -4	15.7	15.9	15.3
6	11.8	+2 / -4	11.3	11.5	11.1
7	7.8	+2 / -4	7.0	7.2	7.0
8	+5.8~-0.2	+2 / -6	3.5	3.7	3.2
9	+1.8~-6.2	+2 / -6	-1.0	-0.8	-1.5
10	-2.2~-12.2	+2 / -6	-4.4	-5.4	-4.5

Table 5.1.1.2 Radio Frequency Power Output Measurement Data (800MHz Digital)

Power Level	Limit		Measured Peak Output Power [dBm]		
	Nominal Peak Output Power [dBm]	Tolerance [dB]	2ch	1001ch	1998ch
			1850.04MHz	1880.01MHz	1909.92MHz
0	25.8	+4 / -2	25.2	25.6	25.8
1	25.8	+4 / -2	25.2	25.8	25.8
2	25.8	+4 / -2	25.4	25.8	25.8
3	23.8	+2 / -4	23.3	23.6	24.0
4	19.8	+2 / -4	19.2	19.6	20.2
5	15.8	+2 / -4	15.2	15.8	16.7
6	11.8	+2 / -4	11.0	11.8	13.1
7	7.8	+2 / -4	6.7	7.9	8.8
8	+5.8~-2.2	+2 / -6	3.5	4.3	4.8
9	+1.8~-8.2	+2 / -6	-0.2	0.2	0.3
10	-2.2~-14.2	+2 / -6	-3.0	-2.7	-2.5

Table 5.1.1.3 Radio Frequency Power Output Measurement Data (1900MHz Digital Mode)

5.1.2 Radio Frequency Power Output with Voltage Variation Measurement Data

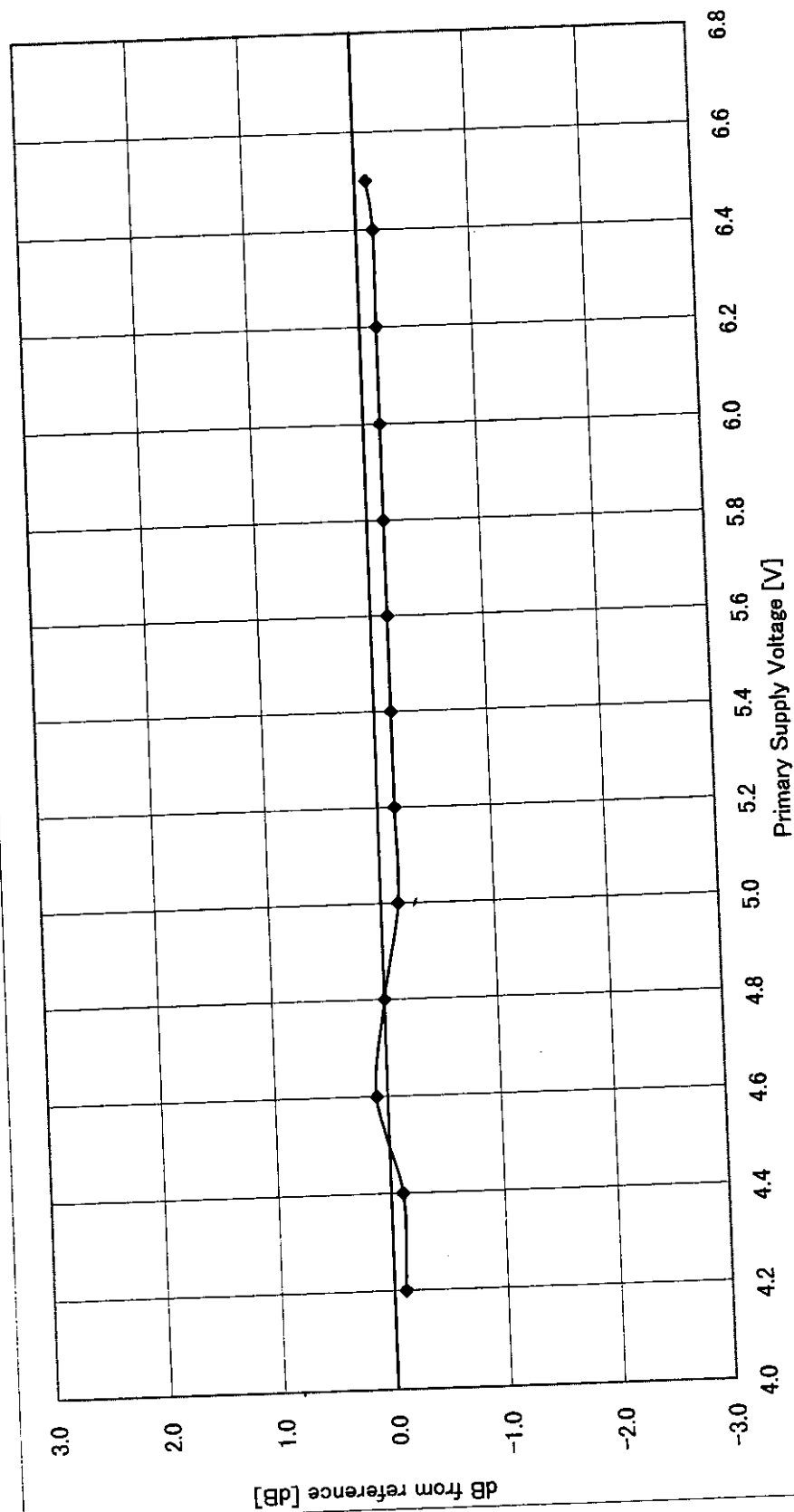


Figure 5.1.2.1 Radio Frequency Power Output with Voltage Variation (800MHz Analog)
Power Level 2, 384ch

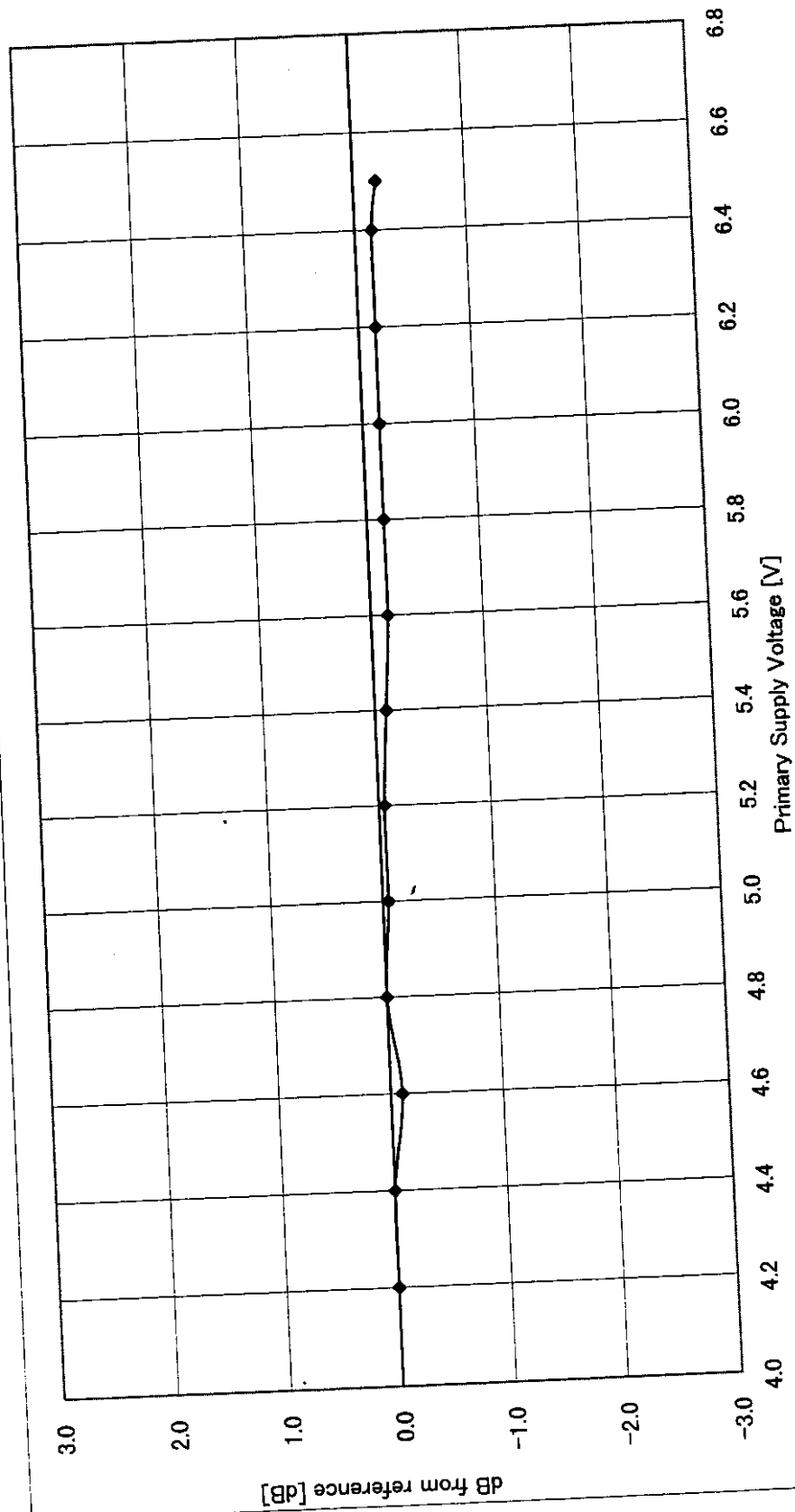


Figure 5.1.2.2 Radio Frequency Power Output with Voltage Variation (800MHz Digital)
Power Level 2, 384ch

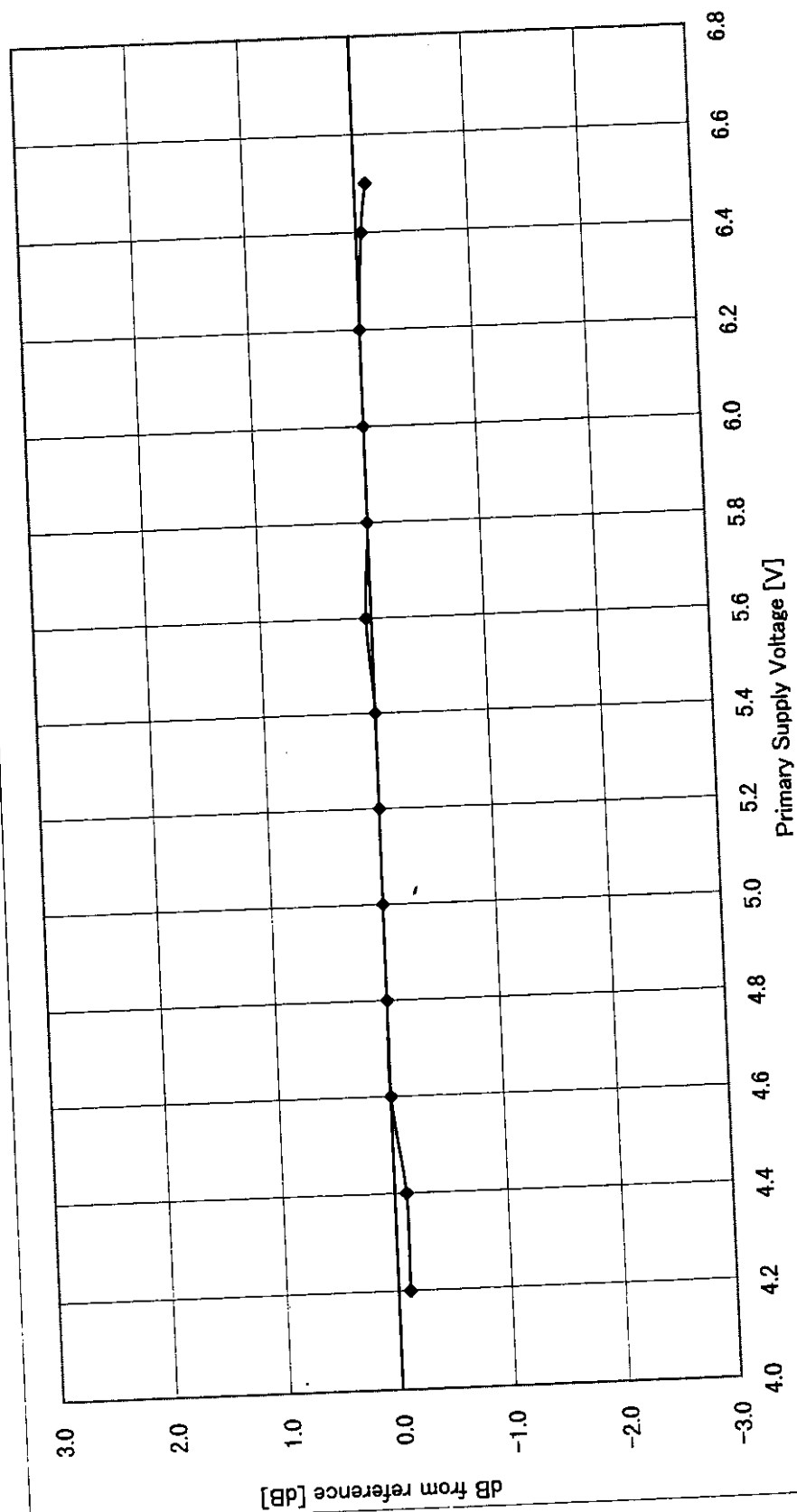


Figure 5.1.2.3 Radio Frequency Power Output with Voltage Variation (1900MHz Digital)
Power Level 2, 1001ch

5.2 Modulation Characteristics {2.987(a)(d)}

5.2.1 Transmitter Audio Frequency Response (800MHz Analog)

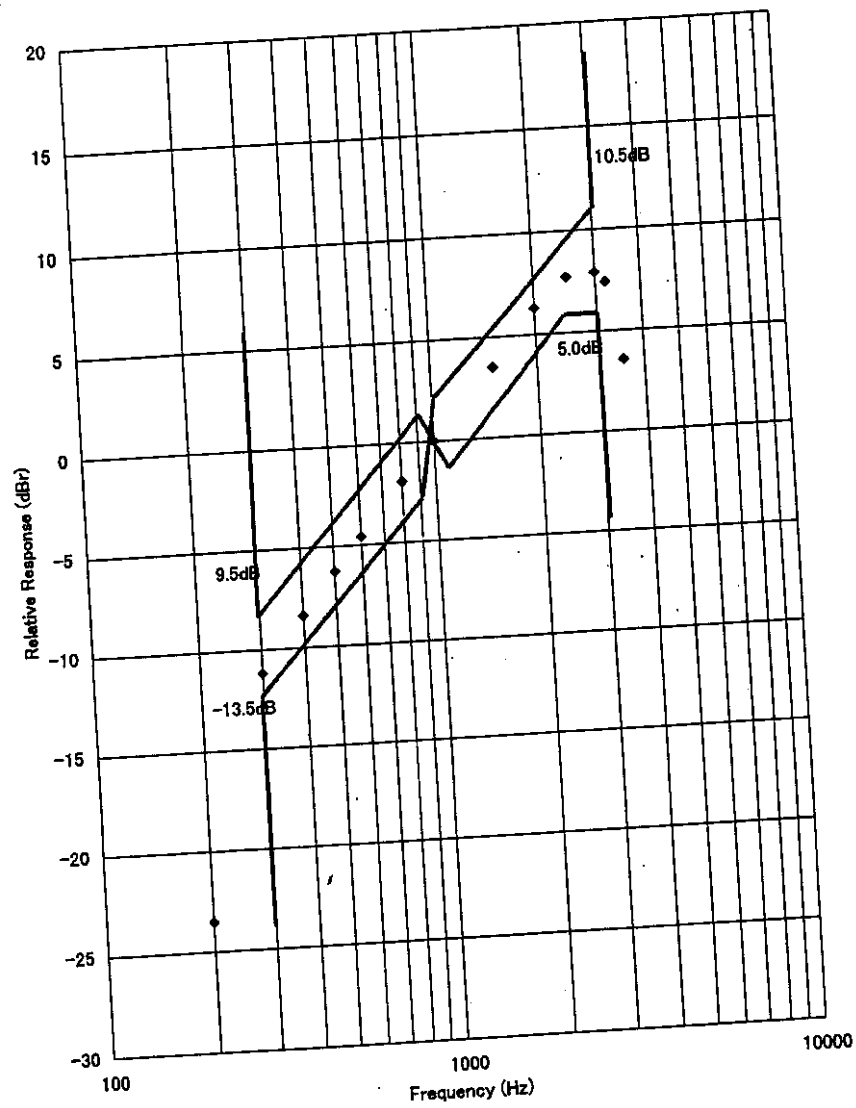


Figure 5.2.1.1 Transmitter Frequency Response of Audio Modulation Circuits
Measurement Data (800MHz Analog Mode)

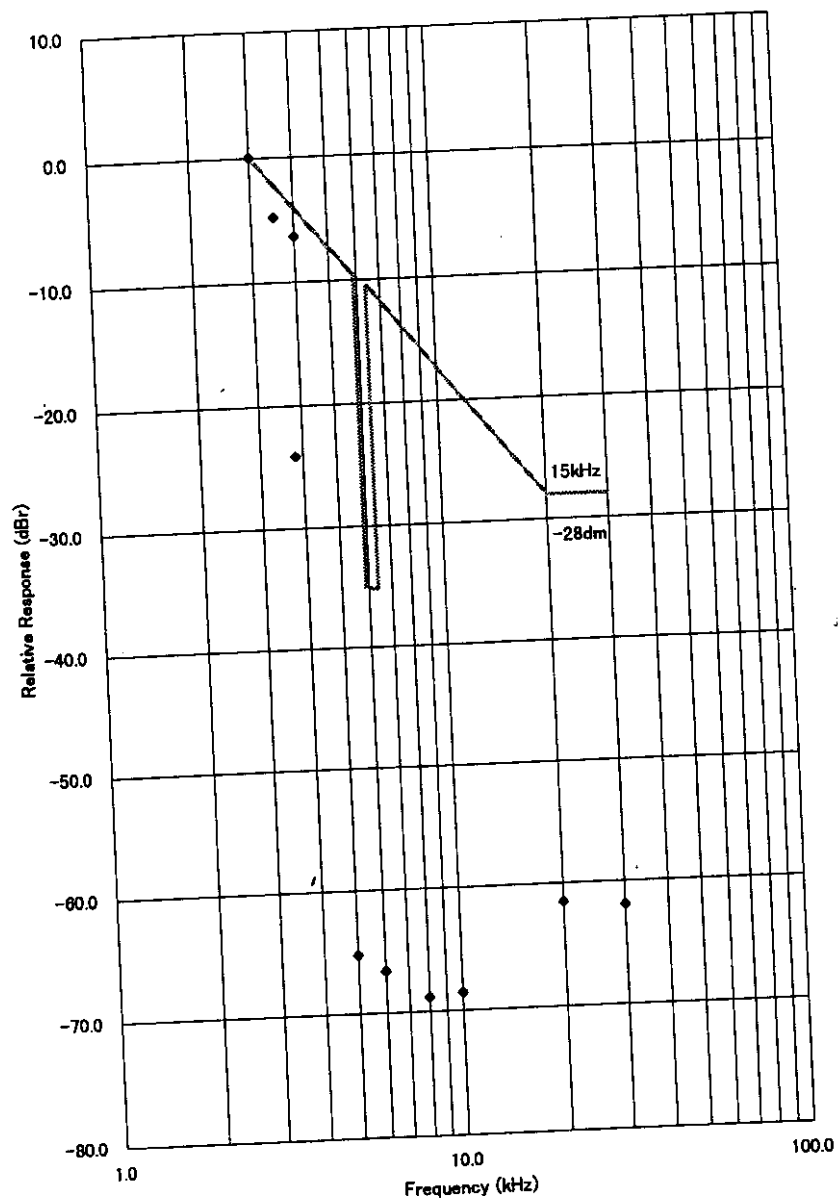


Figure 5.2.1.2 Transmitter Frequency Response of Audio Low Pass Filter
Measurement Data (800MHz Analog Mode)

5.2.3 Modulation Limiting (800MHz Analog)

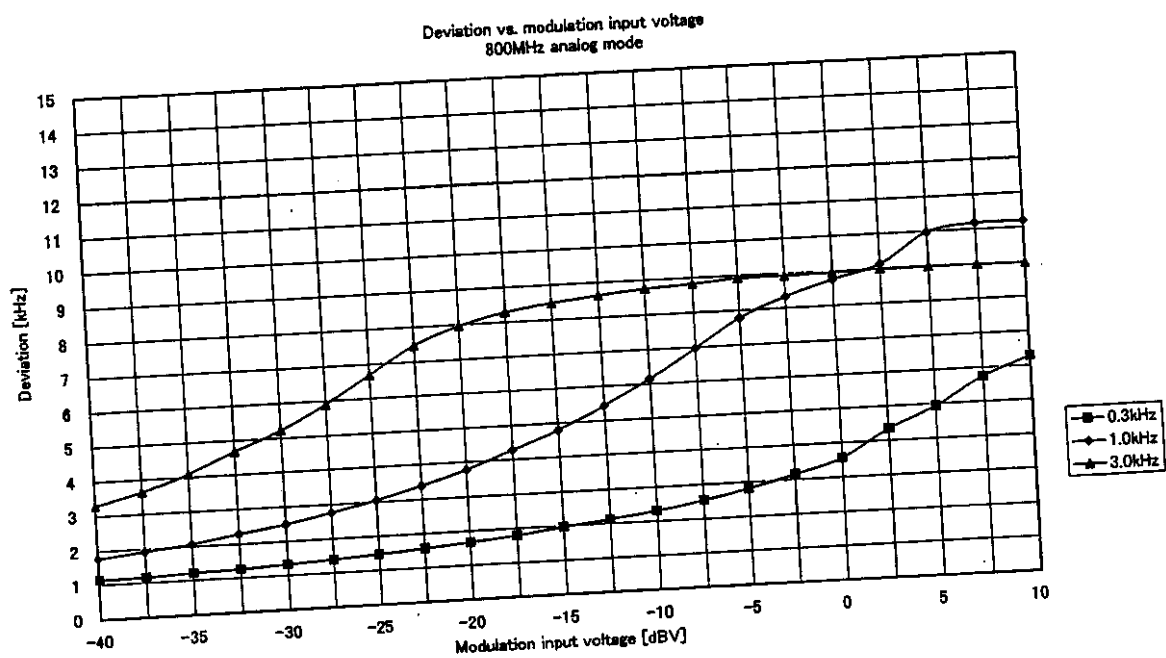


Figure 5.2.3 Modulation Limiting (800MHz Analog)

5.2.2 Post Limiter Filter Attenuation (800MHz Analog)

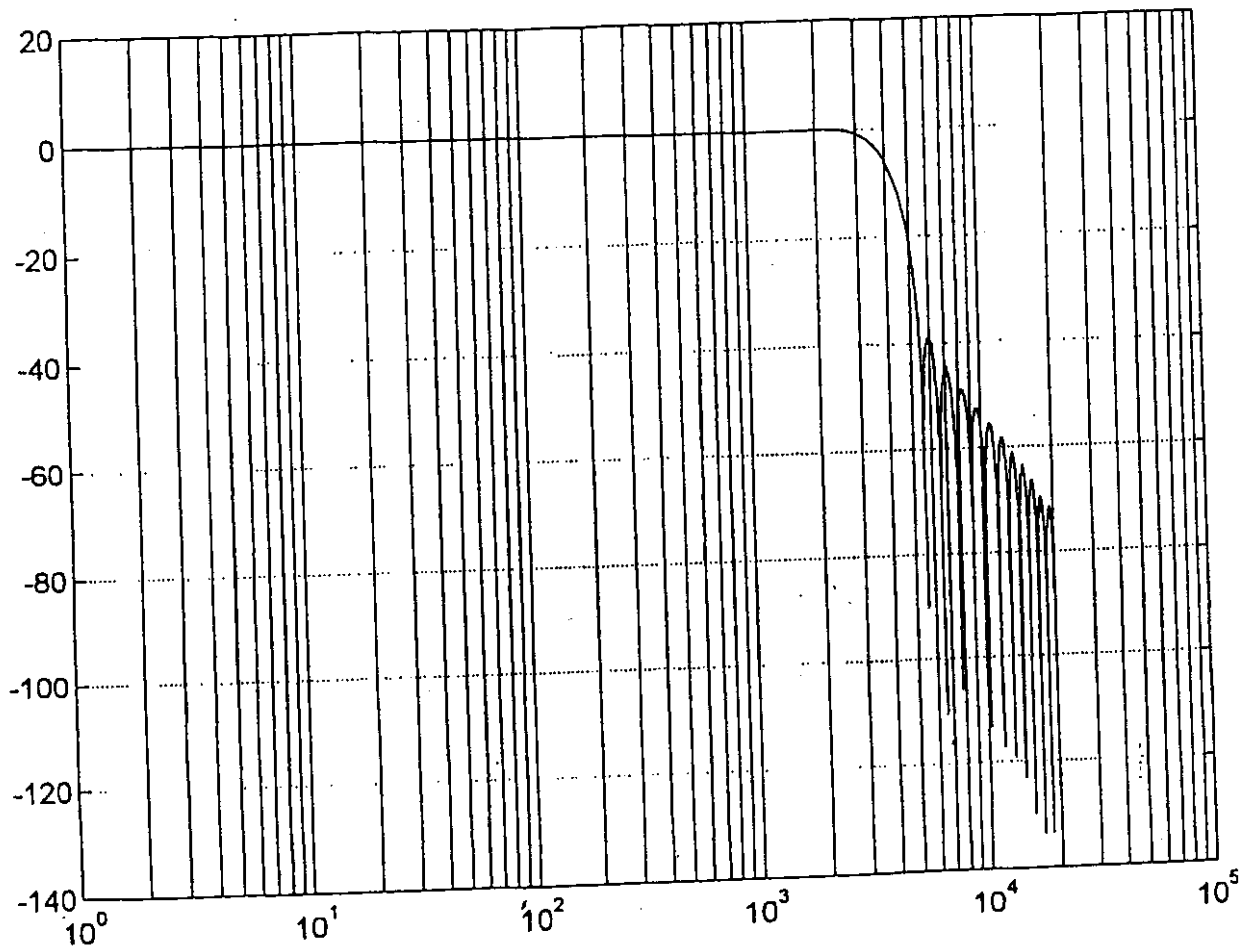


Figure 5.2.2.1 Frequency Response of Post Limiter Filter

5.3 Occupied Bandwidth Measurement Data {2.989 (c) (h)}
(800MHz Analog, 800MHz Digital, 1900MHz Digital)

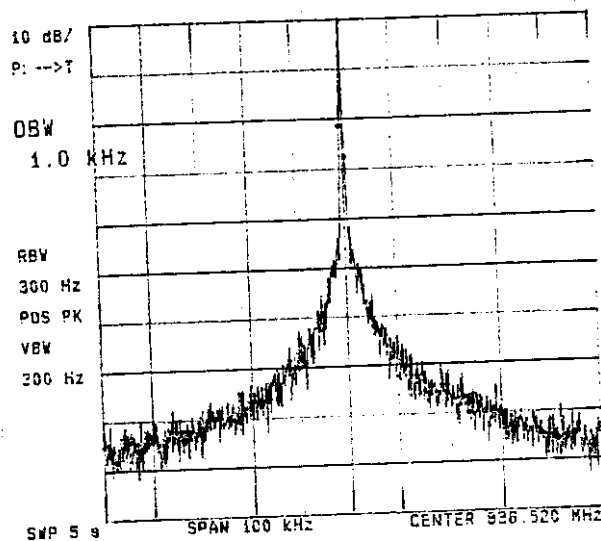


Figure 5.3.1 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
Unmodulated Carrier (384ch, Power Level 2)

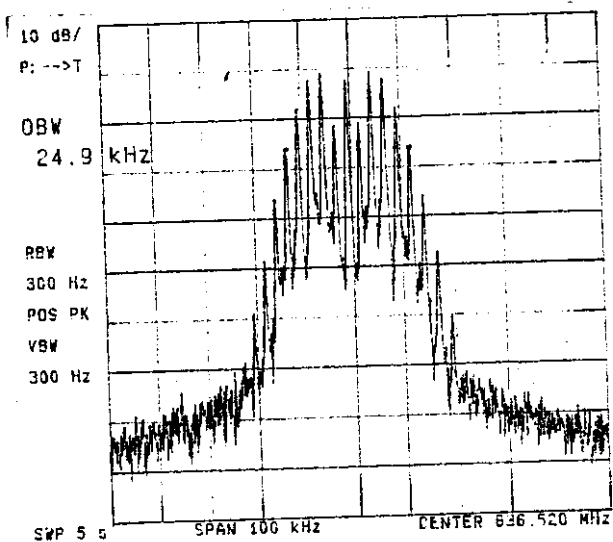


Figure 5.3.2 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
Audio Frequency 16dB greater than 50% Modulation (384ch, Power Level 2)

BAB MT254X FOR 6A

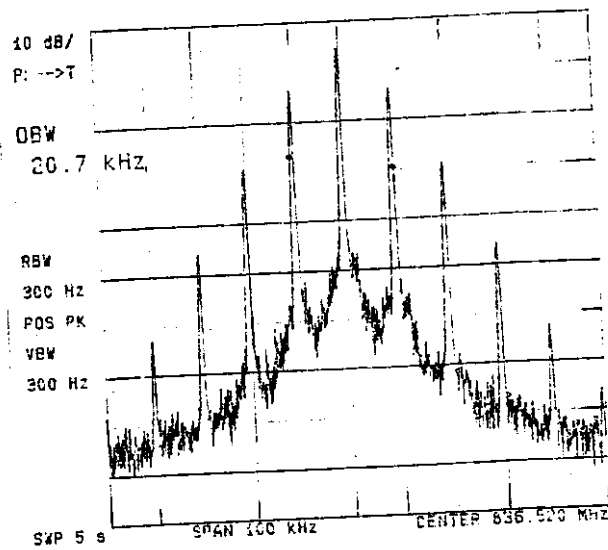


Figure 5.3.3 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
Signaling Tone with +7.66kHz/-7.51kHz Deviation (384ch, Power Level 2)

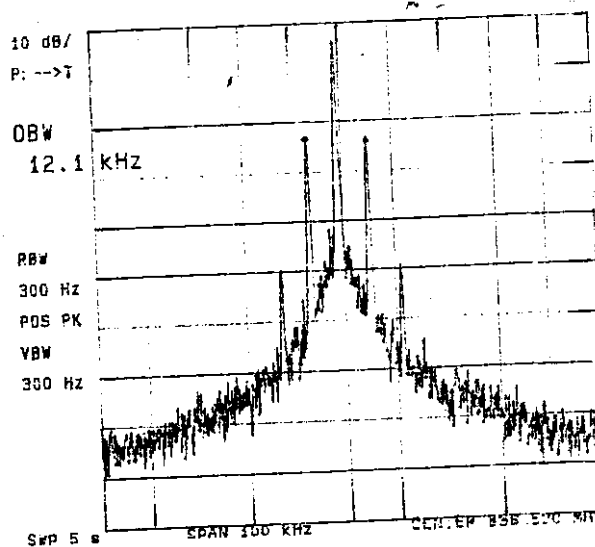


Figure 5.3.4 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
SAT 6000Hz with +1.86kHz/-1.86kHz Deviation (384ch, Power Level 2)

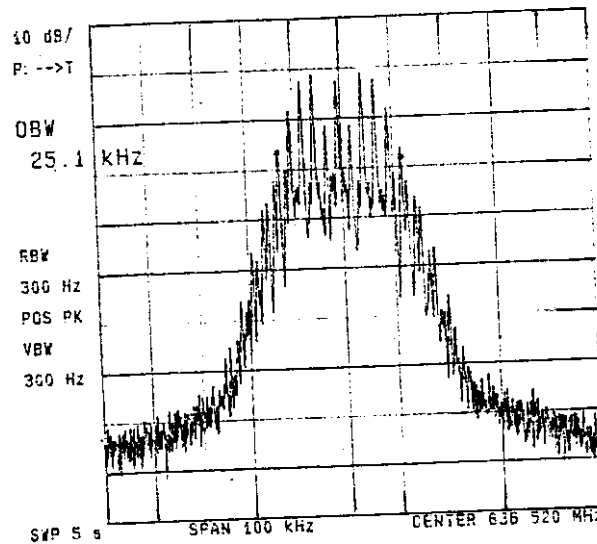


Figure 5.3.5 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
Audio Frequency 16dB greater than 50% Modulation
+ SAT 6000Hz with +1.86kHz/-1.86kHz Deviation (384ch, Power Level 2)

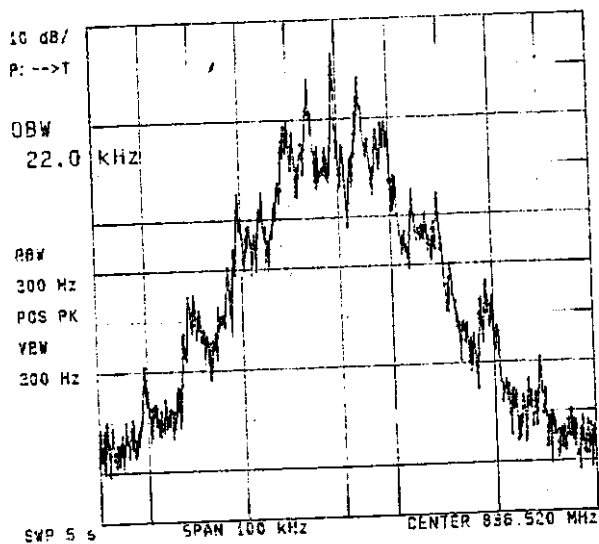


Figure 5.3.6 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
Wideband Data with +7.34kHz/-7.30kHz Deviation (384ch, Power Level 2)

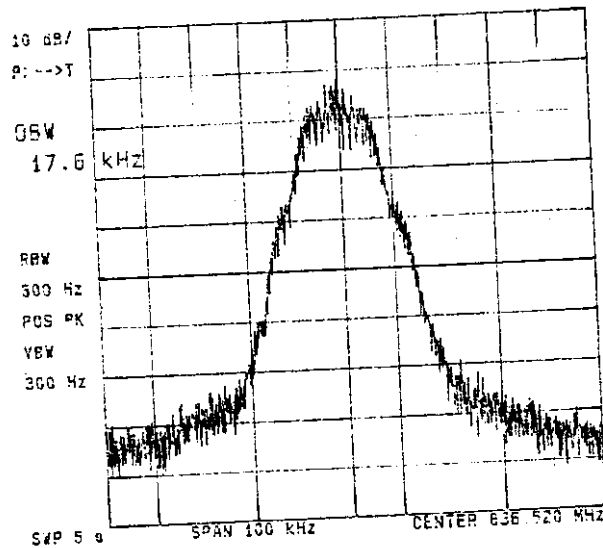


Figure 5.3.7 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
DTMF (Key5) + SAT 6000Hz with +1.86kHz/-1.86kHz Deviation (384ch, Power Level 2)

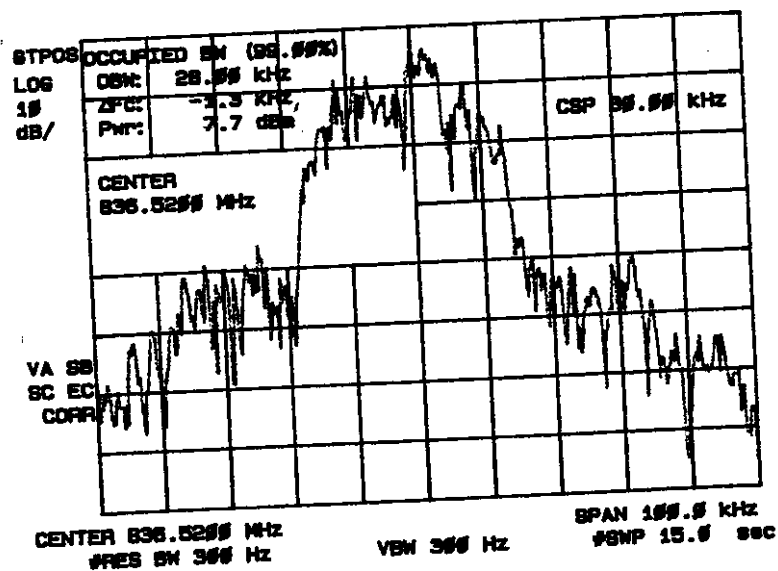


Figure 5.3.8 Occupied Bandwidth Measurement Data (800MHz Digital Mode)
Modulated with a 48.6kbps Pseudo-random Data sequence (384ch, Power Level 2)

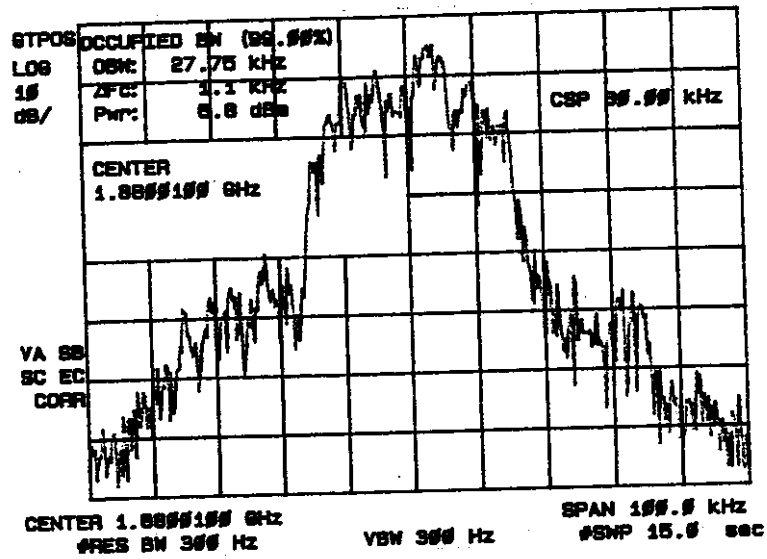


Figure 5.3.9 Occupied Bandwidth Measurement Data (1900MHz Digital Mode)
Modulated with a 48.6kbps Pseudo-random Data sequence (1001ch, Power Level 2)

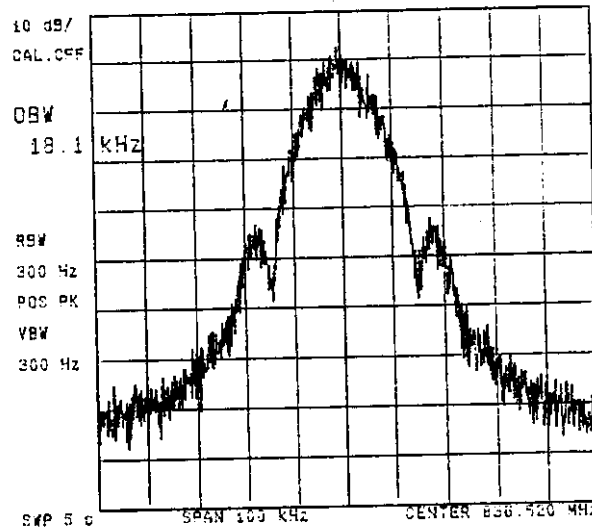


Figure 5.3.10 Occupied Bandwidth Measurement Data (800MHz Analog Mode)
CDPD with +4.89kHz/-4.73kHz Deviation (384ch, Power Level 2)

5.4 Spurious Emissions at Antenna Terminal Measurement Data {2.991}
(800MHz Analog,800MHz Digital,1900MHz Digital)

B6BMT254XF0R6A

FCC Spurious Emission at Antenna Terminal

800A(WBD)	Freq. [MHz]	Reading [dBm]	Attenuator+Filter +Cable Loss [dB]	Net [dBm]	Limit [dBm]	Margin [dB]
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991ch(824.04MHz)

Tx		824.04	-5.40	31.20	25.80		
Harmonics	2nd	1648.08	-62.60	2.80	-59.80	-15.00	44.80
	3rd	2472.12	-59.91	3.60	-56.31	-15.00	41.31
	4th	3296.16	-62.12	5.30	-56.82	-15.00	41.82
	5th	4120.20	-68.15	6.50	-61.65	-15.00	46.65
	6th	4944.24	-68.55	10.80	-57.75	-15.00	42.75
	7th	5768.28	-80.84	5.00	-75.84	-15.00	60.84
	8th	6592.32	-80.76	6.90	-73.86	-15.00	58.86
	9th	7416.36	-80.12	20.80	-59.32	-15.00	44.32
	10th	8240.40	-79.88	13.40	-66.48	-15.00	51.48
Others		3021.57	-61.87	5.30	-56.57	-15.00	41.57
		5035.95	-65.00	10.30	-54.70	-15.00	39.70
		5556.56	-51.55	6.70	-44.85	-15.00	29.85

384ch(836.52MHz)

Tx		836.52	-5.1	31.2	26.1		
Harmonics	2nd	1673.04	-58.34	2.8	-55.54	-14.7	40.84
	3rd	2509.56	-59.51	3.6	-55.91	-14.7	41.21
	4th	3346.08	-60.59	5.3	-55.29	-14.7	40.59
	5th	4182.6	-80.28	6.5	-73.78	-14.7	59.08
	6th	5019.12	-82.53	10.8	-71.73	-14.7	57.03
	7th	5855.64	-81.84	5	-76.84	-14.7	62.14
	8th	6692.16	-80.76	6.9	-73.86	-14.7	59.16
	9th	7528.68	-80.12	20.8	-59.32	-14.7	44.82
	10th	8365.2	-79.88	13.4	-66.48	-14.7	51.78
Others		3059.01	-61.55	5.3	-56.25	-14.7	41.55
		4078.68	-59.38	6.5	-52.88	-14.7	38.18
		6568.87	-57.9	6.9	-51	-14.7	36.30

799ch(848.97MHz)

Tx		848.97	-5	31.2	26.2		
Harmonics	2nd	1697.94	-60.05	2.8	-57.25	-14.6	42.65
	3rd	2546.91	-60.15	3.6	-56.55	-14.6	41.95
	4th	3395.88	-85.2	5.3	-79.9	-14.6	65.30
	5th	4244.85	-59.02	6.5	-52.52	-14.6	37.92
	6th	5093.82	-75.55	10.8	-64.75	-14.6	50.15
	7th	5942.79	-76.15	5	-71.15	-14.6	56.55
	8th	6791.76	-84.65	6.9	-77.75	-14.6	63.15
	9th	7640.73	-76.82	20.8	-56.02	-14.6	41.42
	10th	8489.7	-75.89	13.4	-62.49	-14.6	47.89
Others		3096.36	-62.11	5.3	-56.81	-14.6	42.21
		4128.48	-62.55	6.5	-56.05	-14.6	41.45
		6578.94	-58.21	6.9	-51.31	-14.6	36.71

* : Measuring equipment noise-floor measurements at these frequencies.

Table 5.4.1 Spurious Emissions at Antenna Terminal Measurement Data
(800MHz Analog Mode)
Modulated with Wideband Data, Power Level 2

FCC Spurious Emission at Antenna Terminal

800D

Freq.	Reading	Attenuator+Filter +Cable Loss	Net	Limit	Margin
[MHz]	[dBm]	[dB]	[dBm]	[dBm]	[dB]

991ch(824.04MHz)

Tx		824.04	-4.50	31.20	26.70		
Harmonics	2nd	1648.08	-70.09	2.80	-67.29	-18.30	48.99
	3rd	2472.12	-55.92	3.60	-52.32	-18.30	34.02
	4th	3296.16	-69.67	5.30	-64.37	-18.30	46.07
	5th	4120.20	-60.11	6.50	-53.61	-18.30	35.31
	6th	4944.24	-80.45	10.80	-69.65	-18.30	51.35
	7th	5768.28	-81.21	5.00	-76.21	-18.30	57.91
	8th	6592.32	-80.47	6.90	-73.57	-18.30	55.27
	9th	7416.36	-79.84	20.80	-59.04	-18.30	40.74
	10th	8240.40	-77.78	13.40	-64.38	-18.30	46.08
		3036.57	-59.77	5.30	-54.47	-18.30	36.17
Others		5060.95	-64.32	10.30	-54.02	-18.30	35.72
		5568.30	-50.51	5.00	-45.51	-18.30	27.21

384ch(836.52MHz)

Tx		836.52	-4.30	31.20	26.90		
Harmonics	2nd	1673.04	-54.75	2.80	-51.95	-18.10	33.85
	3rd	2509.56	-59.58	3.60	-55.98	-18.10	37.88
	4th	3346.08	-60.82	5.30	-55.52	-18.10	37.42
	5th	4182.60	-64.04	6.50	-57.54	-18.10	39.44
	6th	5019.12	-78.63	10.80	-67.83	-18.10	49.73
	7th	5855.64	-76.88	5.00	-71.88	-18.10	53.78
	8th	6692.16	-66.48	6.90	-59.58	-18.10	41.48
	9th	7528.68	-78.87	20.80	-58.07	-18.10	39.97
	10th	8365.20	-76.86	13.40	-63.46	-18.10	45.36
		4078.68	-61.92	6.50	-55.42	-18.10	37.32
Others		5568.80	-50.25	5.00	-45.25	-18.10	27.15
		6352.97	-60.21	6.90	-53.31	-18.10	35.21
		6587.35	-58.45	6.90	-51.55	-18.10	33.45

799ch(848.97MHz)

Tx		848.97	-5.20	31.20	26.00		
Harmonics	2nd	1697.94	-60.84	2.80	-58.04	-19.00	39.04
	3rd	2546.91	-47.69	3.60	-44.09	-19.00	25.09
	4th	3395.88	-58.15	5.30	-52.85	-19.00	33.85
	5th	4244.85	-55.53	6.50	-49.03	-19.00	30.03
	6th	5093.82	-81.62	10.80	-70.82	-19.00	51.82
	7th	5942.79	-71.57	5.00	-66.57	-19.00	47.57
	8th	6791.76	-80.55	6.90	-73.65	-19.00	54.65
	9th	7640.73	-79.61	20.80	-58.81	-19.00	39.81
	10th	8489.70	-77.21	13.40	-63.81	-19.00	44.81
		3096.36	-60.28	5.30	-54.98	-19.00	35.98
Others		4128.48	-61.85	6.50	-55.35	-19.00	36.35
		5566.36	-50.36	5.00	-45.36	-19.00	26.36
		6341.53	-60.99	6.90	-54.09	-19.00	35.09
		6473.37	-56.64	6.90	-49.74	-19.00	30.74
		6602.63	-57.96	6.90	-51.06	-19.00	32.06

* : Measuring equipment noise-floor measurements at these frequencies.

Table 5.4.2 Spurious Emissions at Antenna Terminal Measurement Data
(800MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

FCG Spurious Emission at Antenna Terminal

1.9D		Freq. [MHz]	Reading [dBm]	Attenuator+Filter +Cable Loss [dB]	Net [dBm]	Limit [dBm]	Margin [dB]
2ch(1850.04MHz)							
Tx		1850.04	-6.5		31.8	25.3	
Harmonics	2nd	3700.08	-81.1		33	-48.1	-19.7 28.4*
	3rd	5550.12	-76.75		33	-43.75	-19.7 24.05
	4th	7400.16	-78.38		33.2	-45.18	-19.7 25.48*
	5th	9250.2	-79.27		33.7	-45.57	-19.7 25.87*
	6th	11100.24	-79.75		33.2	-46.55	-19.7 26.85*
	7th	12950.28	-79.09		34.2	-44.89	-19.7 25.19*
	8th	14800.32	-79.49		34.7	-44.79	-19.7 25.09*
	9th	16650.36	-79.29		34.9	-44.39	-19.7 24.69*
	10th	18500.4	-79.86		34.8	-45.06	-19.7 25.36*
	Others	2064.42	-75.75		31.7	-44.05	-19.7 24.35
1001ch(1880.01MHz)							
Tx		1880.01	-6.1		31.8	25.7	
Harmonics	2nd	3760.02	-80.66		33	-47.66	-19.3 28.36*
	3rd	5640.03	-78.7		33	-45.7	-19.3 26.4
	4th	7520.04	-75.92		33.2	-42.72	-19.3 23.42
	5th	9400.05	-80.08		33.7	-46.38	-19.3 27.08*
	6th	11280.06	-80.56		33.2	-47.36	-19.3 28.06*
	7th	13160.07	-80.96		34.2	-46.76	-19.3 27.46*
	8th	15040.08	-79.16		34.7	-44.46	-19.3 25.16*
	9th	16920.09	-79.1		34.9	-44.2	-19.3 24.9*
	10th	18800.1	-78.64		34.8	-43.84	-19.3 24.54*
	Others	1920.35	-60.78		2.2	-58.58	-19.3 39.28
		2094.39	-75.77		31.7	-44.07	-19.3 24.77
1998ch(1909.92MHz)							
Tx		1909.92	-6.1		31.8	25.7	
Harmonics	2nd	3819.84	-79.47		33	-46.47	-19.3 27.17
	3rd	5729.76	-82.91		33	-49.91	-19.3 30.61*
	4th	7639.68	-81.08		33.2	-47.88	-19.3 28.58*
	5th	9549.6	-81.78		33.7	-48.08	-19.3 28.78*
	6th	11459.52	-81.92		33.2	-48.72	-19.3 29.42*
	7th	13369.44	-80.81		34.2	-46.61	-19.3 27.31*
	8th	15279.36	-80.37		34.7	-45.67	-19.3 26.37*
	9th	17189.28	-79.68		34.9	-44.78	-19.3 25.48*
	10th	19099.2	-78.76		34.8	-43.96	-19.3 24.66*
	Others	2124.3	-75.2		31.7	-43.5	-19.3 24.2
		4248.6	-81.36		33.9	-47.46	-19.3 28.16
		6372.9	-81.52		33.2	-48.32	-19.3 29.02
		8497.2	-80.55		33.1	-47.45	-19.3 28.15

* : Measuring equipment noise-floor measurements at these frequencies.

Table 5.4.3 Spurious Emissions at Antenna Terminal Measurement Data
(1900MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

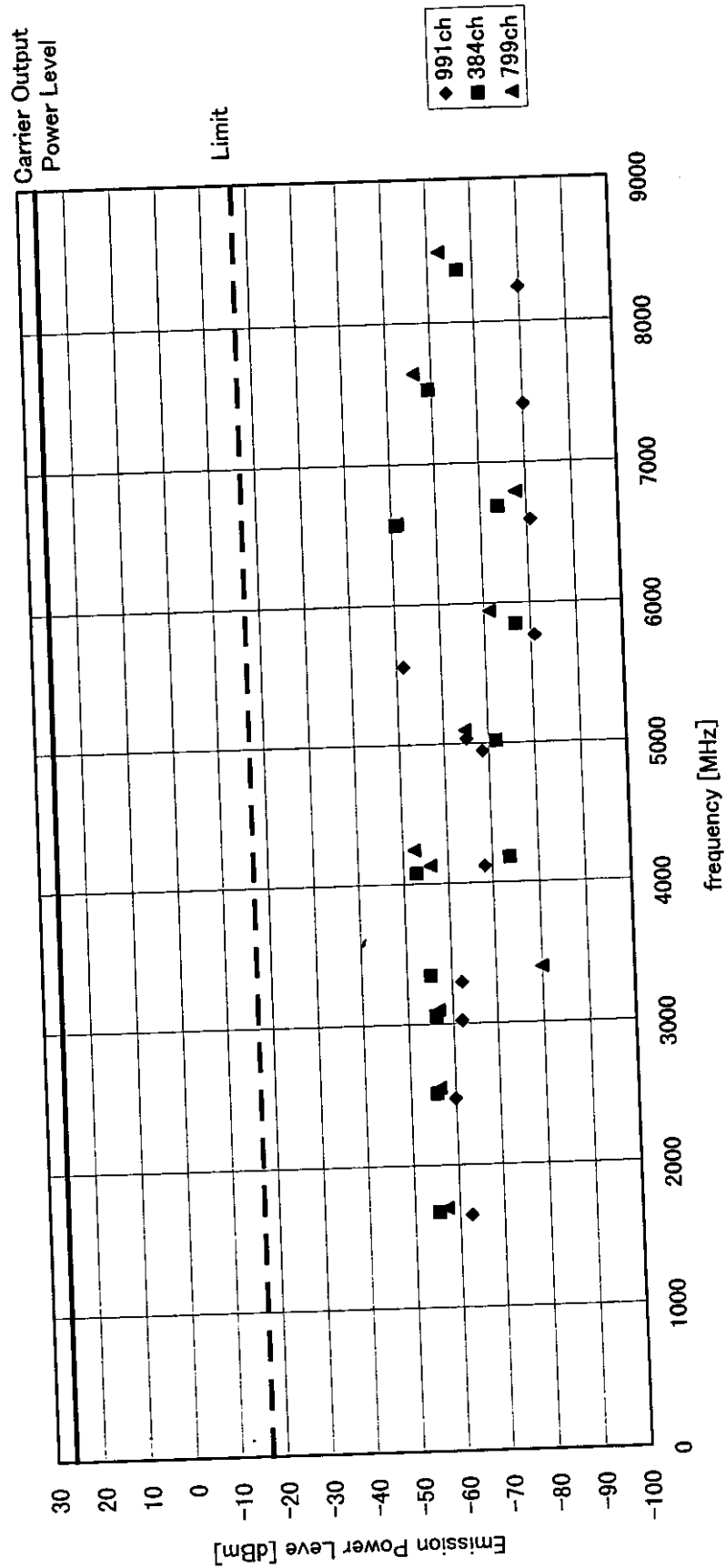


Figure 5.4.1 Spurious Emission at Antenna Terminal (800MHz Analog Mode)
Modulated with Wideband Data, Power Level 2

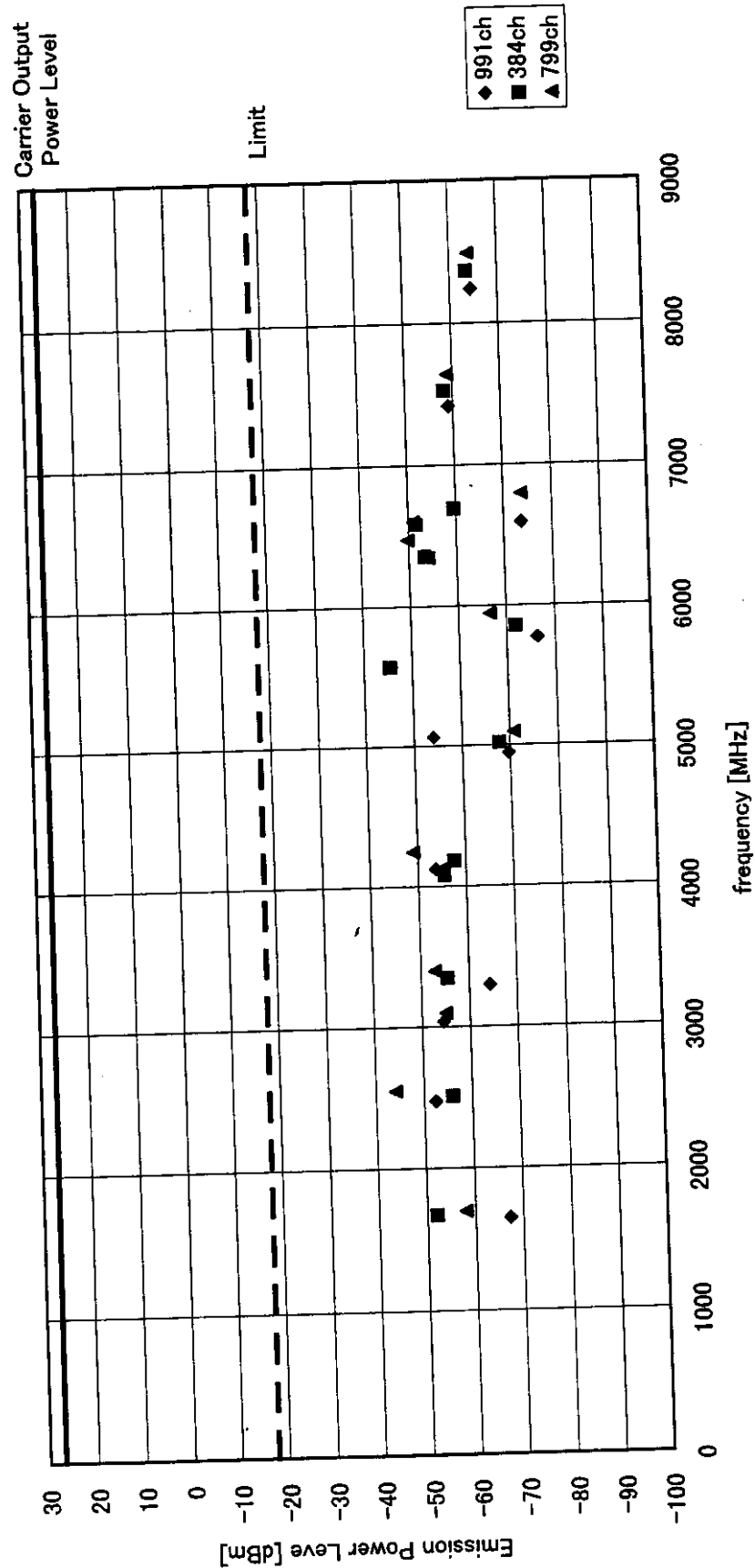


Figure 5.4.2 Spurious Emission at Antenna Terminal (800MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

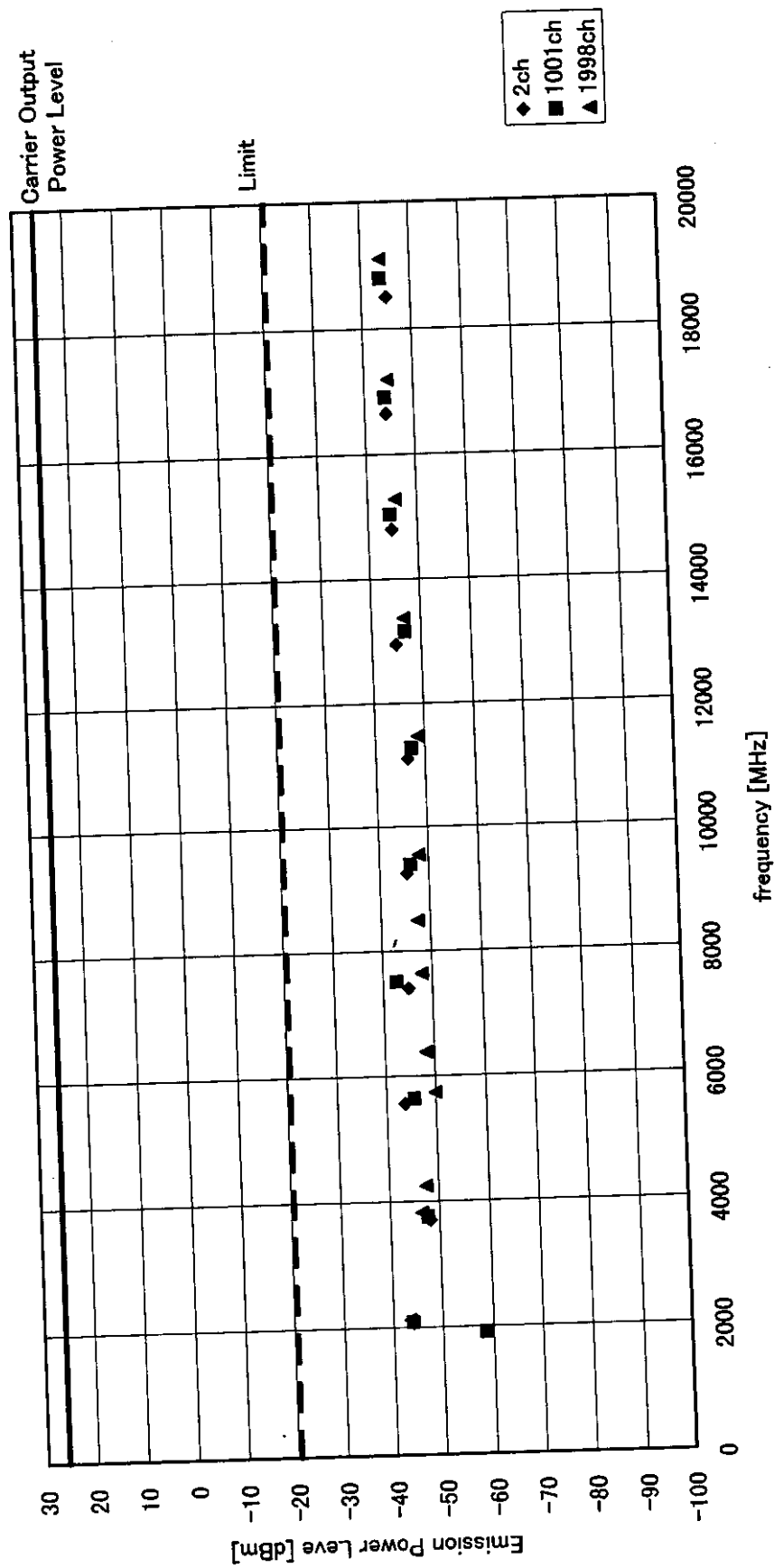


Figure 5.4.3 Spurious Emission at Antenna Terminal (1900MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

FCC Field Strength of Spurious Emission

800A	Freq. [MHz]	Relative radiated power with reference to rated power [dB]
------	----------------	--

799ch(824.04MHz)		
Harmonics	2nd	1648.08
	3rd	2472.12
	4th	3296.16
	5th	4120.20
	6th	4944.24
	7th	5768.28
	8th	6592.32
	9th	7416.36
	10th	8240.40
	Others	3021.57

384ch(836.52MHz)		
Harmonics	2nd	1673.04
	3rd	2509.56
	4th	3346.08
	5th	4182.60
	6th	5019.12
	7th	5855.64
	8th	6692.16
	9th	7528.68
	10th	8365.20
	Others	3059.01

991ch(848.97MHz)		
Harmonics	2nd	1697.94
	3rd	2546.91
	4th	3395.88
	5th	4244.85
	6th	5093.82
	7th	5942.79
	8th	6791.76
	9th	7640.73
	10th	8489.70
	Others	3096.36

(Limit:-40.8dB)

* : Rated Power :Power Level 2

Table 5.5.1 Field Strength of Spurious Emissions Measurement Data
(800MHz Analog Mode)
Modulated with Wideband Data, Power Level 2

FCC Field Strength of Spurious Emission

800D	Freq [MHz]	Relative radiated power with reference to rated power [dB]
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991ch(824.04MHz)

Harmonics	2nd	1648.08	-60.2
	3rd	2472.12	-52.5
	4th	3296.16	-56.8
	5th	4120.20	below -61.2
	6th	4944.24	below -58.2
	7th	5768.28	below -56.7
	8th	6592.32	below -53.2
	9th	7416.36	below -51.0
	10th	8240.40	below -52.0
	Others	3021.57	-57.2

384ch(836.52MHz)

Harmonics	2nd	1673.04	-60.5
	3rd	2509.56	-51.0
	4th	3346.08	-57.8
	5th	4182.60	below -61.4
	6th	5019.12	below -58.6
	7th	5855.64	below -57.4
	8th	6692.16	below -53.9
	9th	7528.68	below -52.2
	10th	8365.20	below -51.7
	Others	3059.01	-54.2

799ch(848.97MHz)

Harmonics	2nd	1697.94	-58.8
	3rd	2546.91	-51.0
	4th	3395.88	-57.3
	5th	4244.85	below -61.1
	6th	5093.82	below -58.1
	7th	5942.79	below -57.4
	8th	6791.76	below -53.8
	9th	7640.73	below -53.5
	10th	8489.70	below -53.2
	Others	3096.36	-55.3

(Limit:-40.8dB)

* : Rated Power :Power Level 2 ,

Table 5.5.2 Field Strength of Spurious Emissions Measurement Data
(800MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

FCC Field Strength of Spurious Emission

1.9D

Freq. [MHz]	Relative radiated power with reference to rated power [dB]
----------------	--

2ch(1850.04MHz)

Harmonics			
2nd	3700.08		-58.1
3rd	5550.12		-47.8
4th	7400.16	below	-50.8
5th	9250.20	below	-51.3
6th	11100.24	below	-60.5
7th	12950.28	below	-57.2
8th	14800.32	below	-56.4
9th	16650.36	below	-52.8
10th	18500.40	below	-54.1

1001ch(1880.01MHz)

Harmonics			
2nd	3760.02		-57.8
3rd	5640.03		-46.3
4th	7520.04	below	-50.8
5th	9400.05	below	-51.9
6th	11280.06	below	-50.0
7th	13160.07	below	-58.0
8th	15040.08	below	-55.4
9th	16920.09	below	-50.3
10th	18800.10	below	-53.1

1998ch(1909.92MHz)

Harmonics			
2nd	3819.84		-57.6
3rd	5729.76		-46.8
4th	7639.68	below	-50.7
5th	9549.60	below	-51.9
6th	11459.52	below	-59.3
7th	13369.44	below	-54.7
8th	15279.36	below	-54.3
9th	17189.28	below	-51.0
10th	19099.20	below	-52.7

(Limit:-40.8dB)

* : Rated Power :Power Level 2

Table 5.5.3 Field Strength of Spurious Emissions Measurement Data
(1900MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

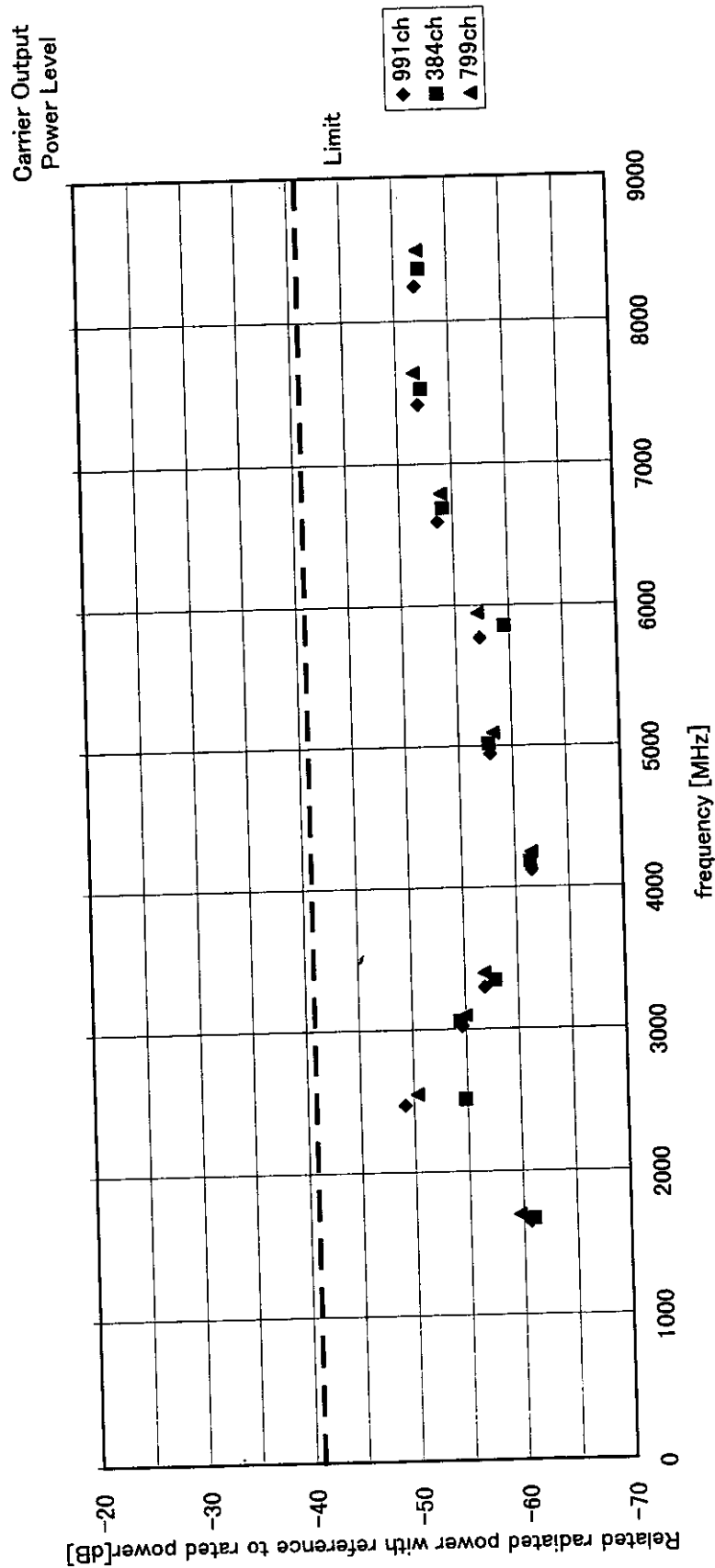


Figure 5.5.1 Field Strength of Spurious Emissions (800MHz Analog Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

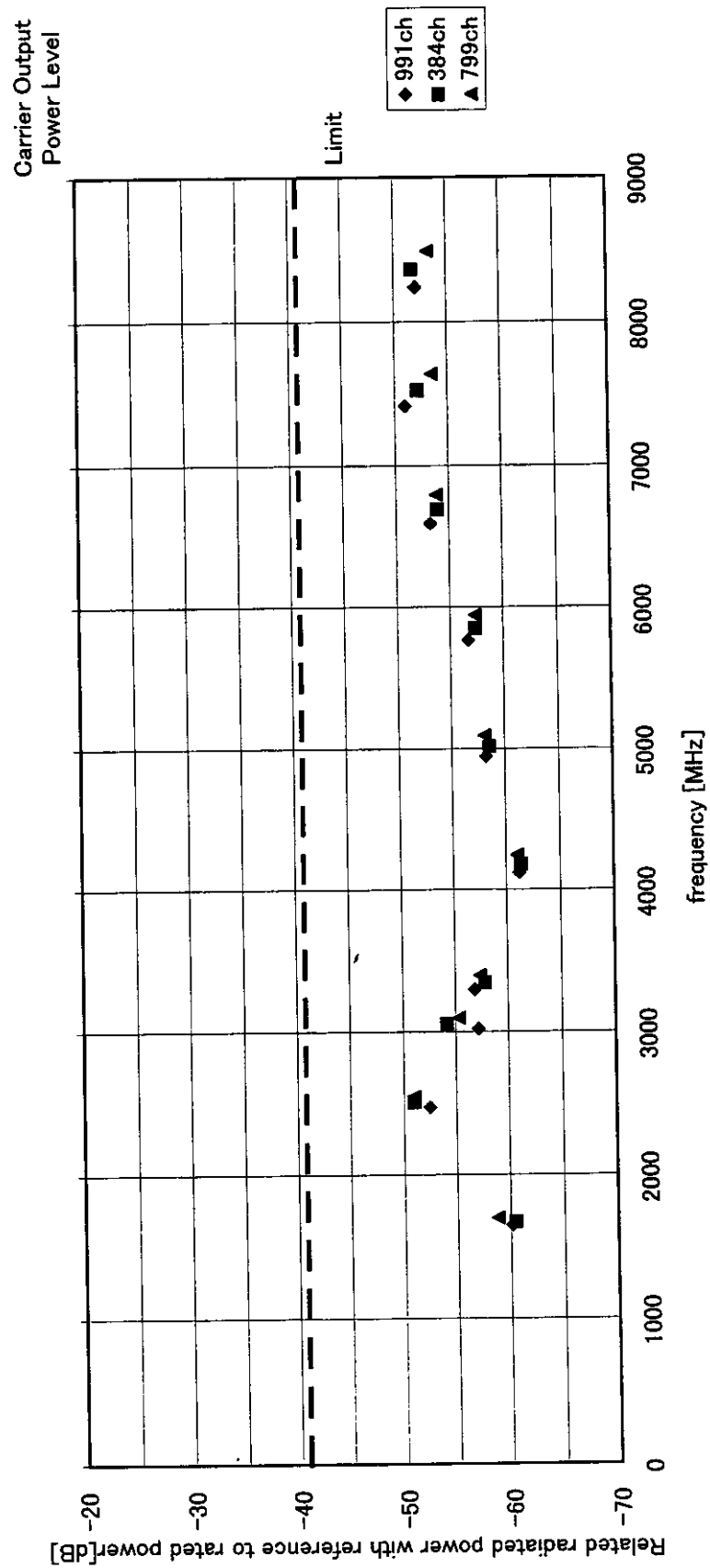


Figure 5.5.2 Field Strength of Spurious Emissions (800MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

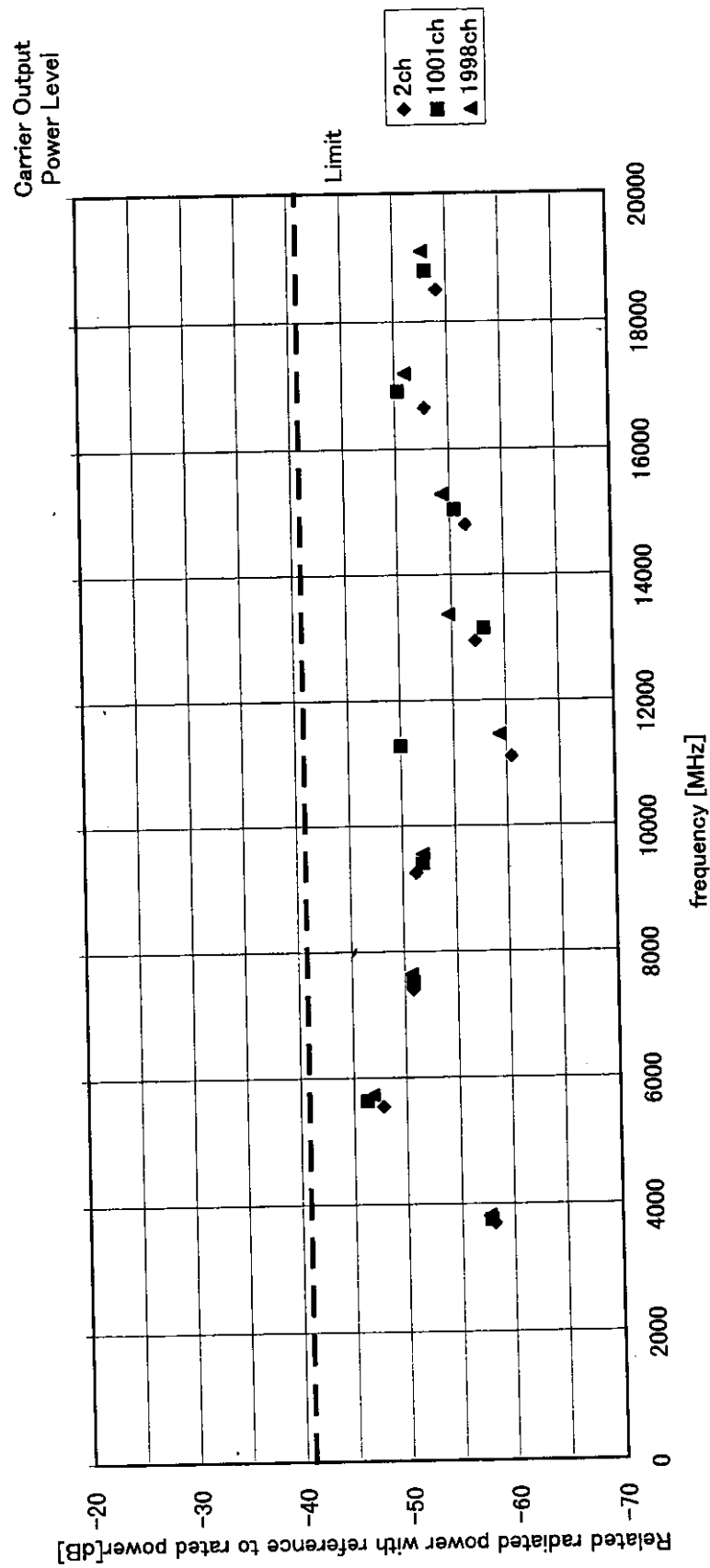


Figure 5.5.3 Field Strength of Spurious Emissions (1900MHz Digital Mode)
Modulated with 48.6kbps Pseudo-random Data Sequence, Power Level 2

5.6 Frequency Stability Measurement Data {2.995}
(800MHz Analog,800MHz Digital,1900MHz Digital)

5.6.1 Frequency Stability with Voltage Variation Measurement Data

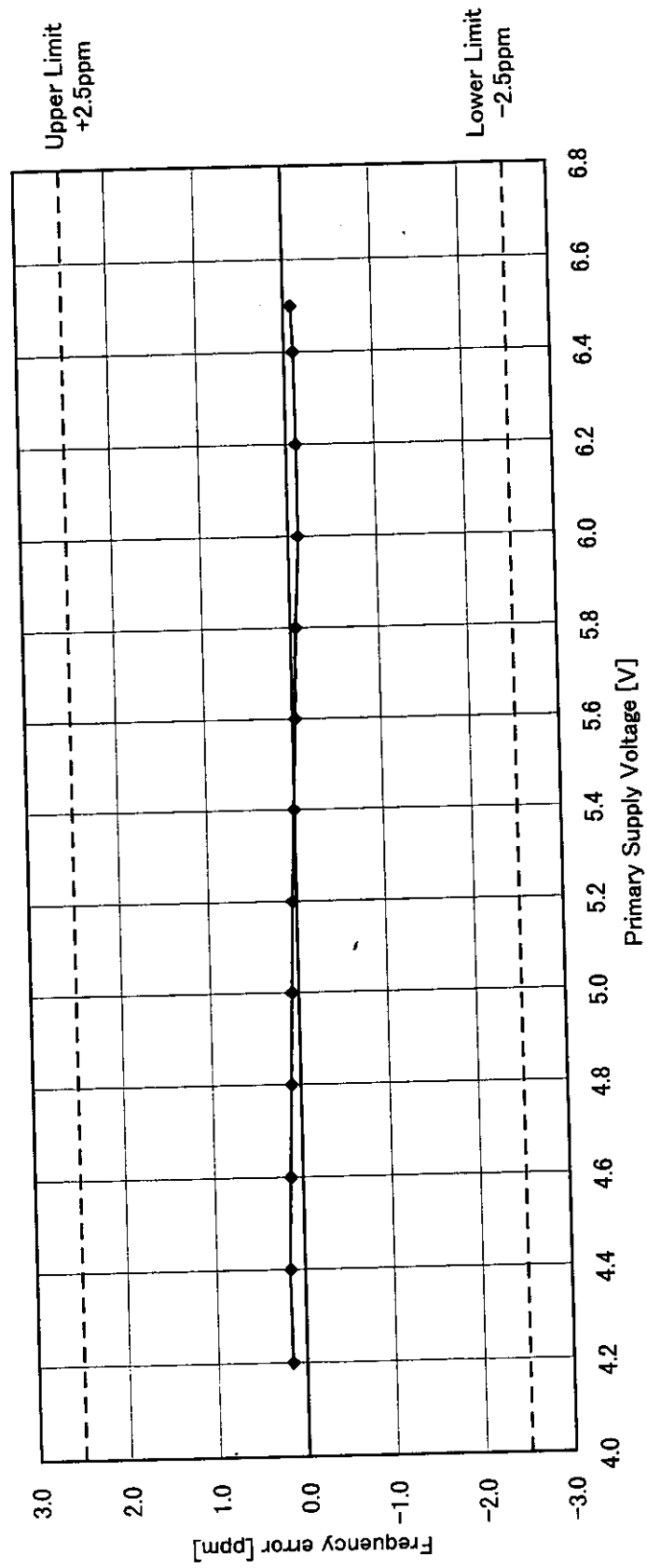


Figure 5.6.1.1 Frequency Stability with Voltage Variation (800MHz Analog Mode)

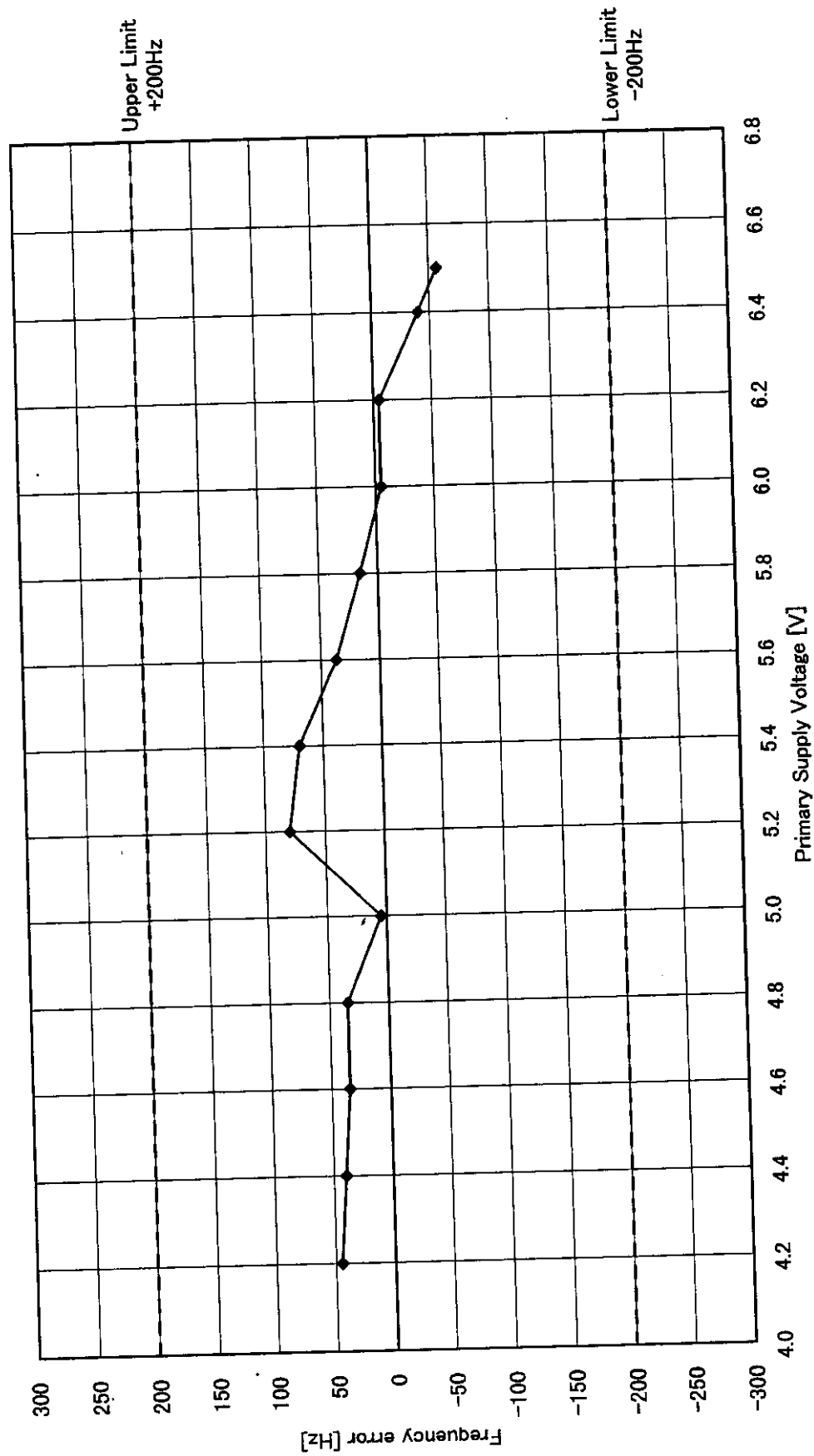


Figure 5.6.1.2 Frequency Stability with Voltage Variation (800MHz Digital Mode)

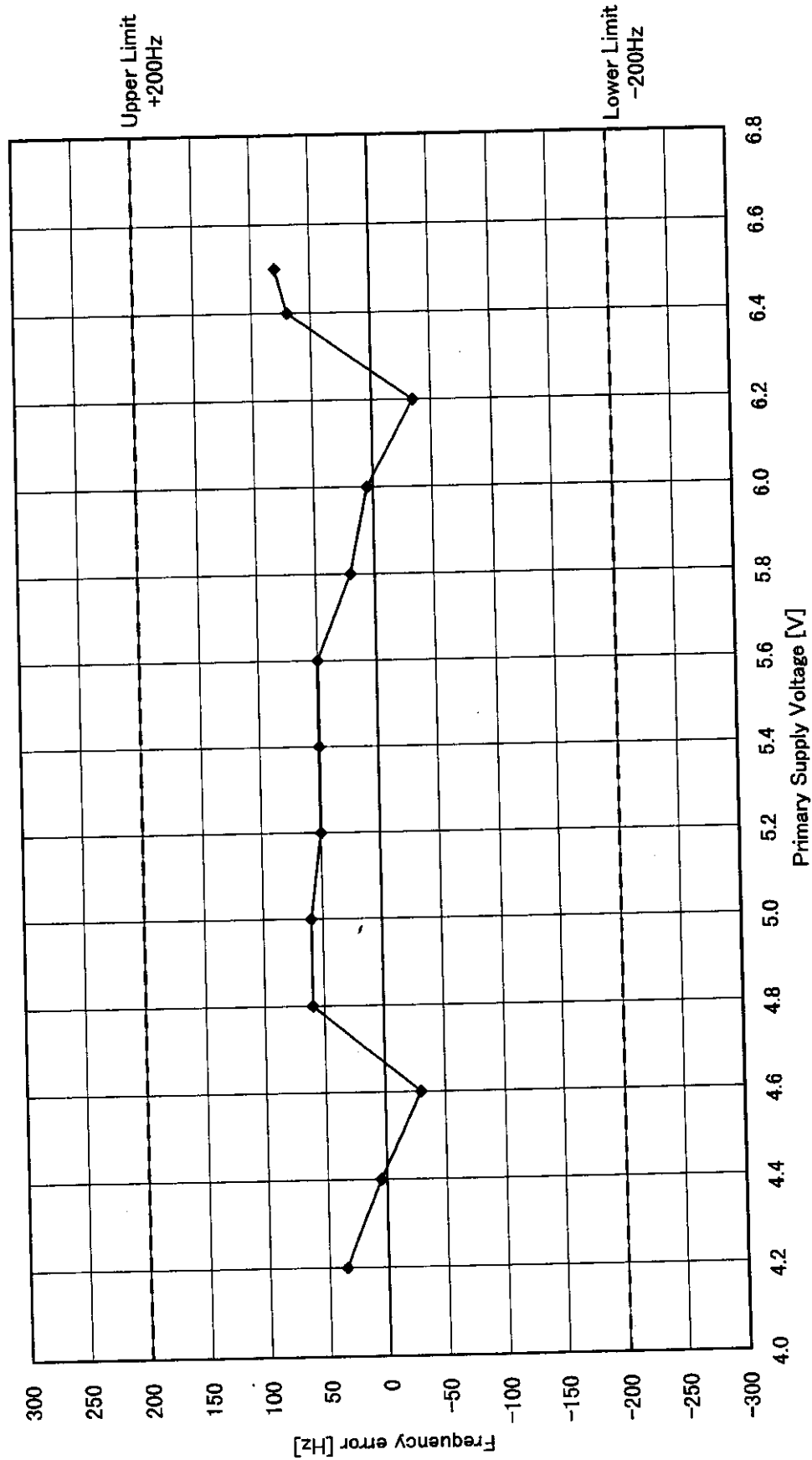


Figure 5.6.1.3 Frequency Stability with Voltage Variation (1900MHz Digital Mode)

5.6.2 Frequency Stability with Temperature Variation Measurement Data

BGBMT254XFOR6A

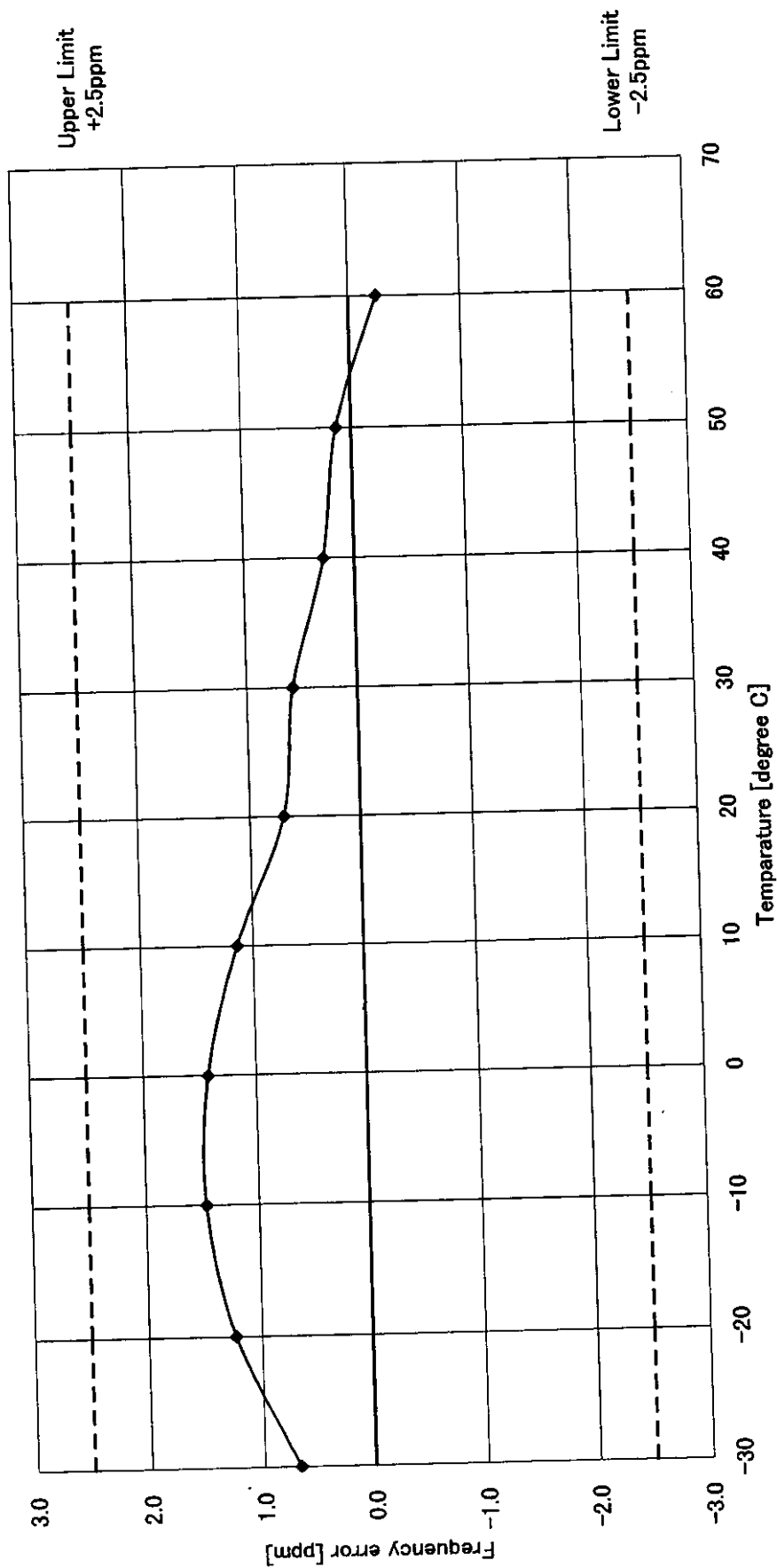


Figure 5.6.2.1 Frequency Stability with Temperature Variation
(800MHz Analog Mode)

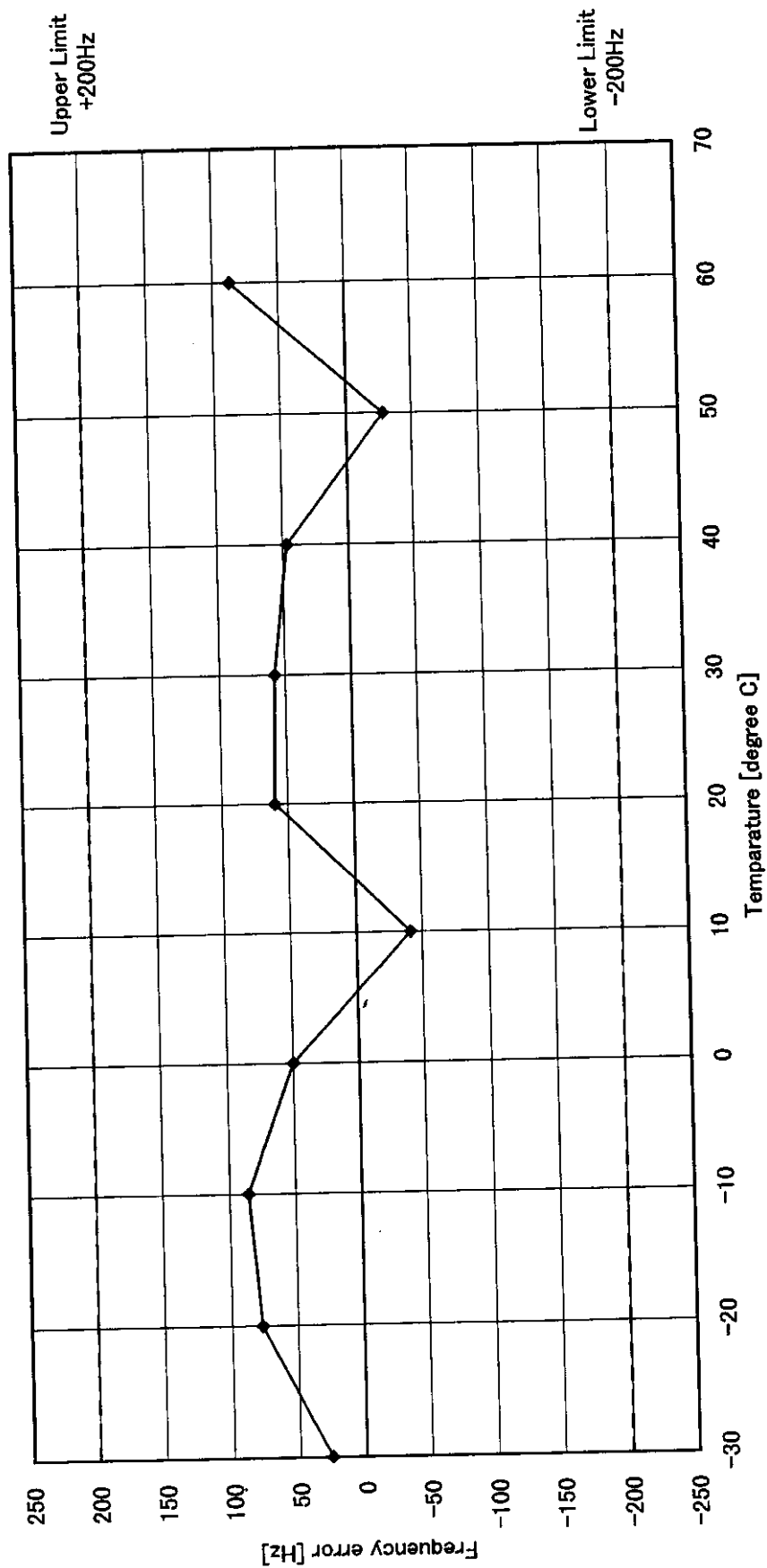


Figure 5.6.2.2 Frequency Stability with Temperature Variation
(800MHz Digital Mode)

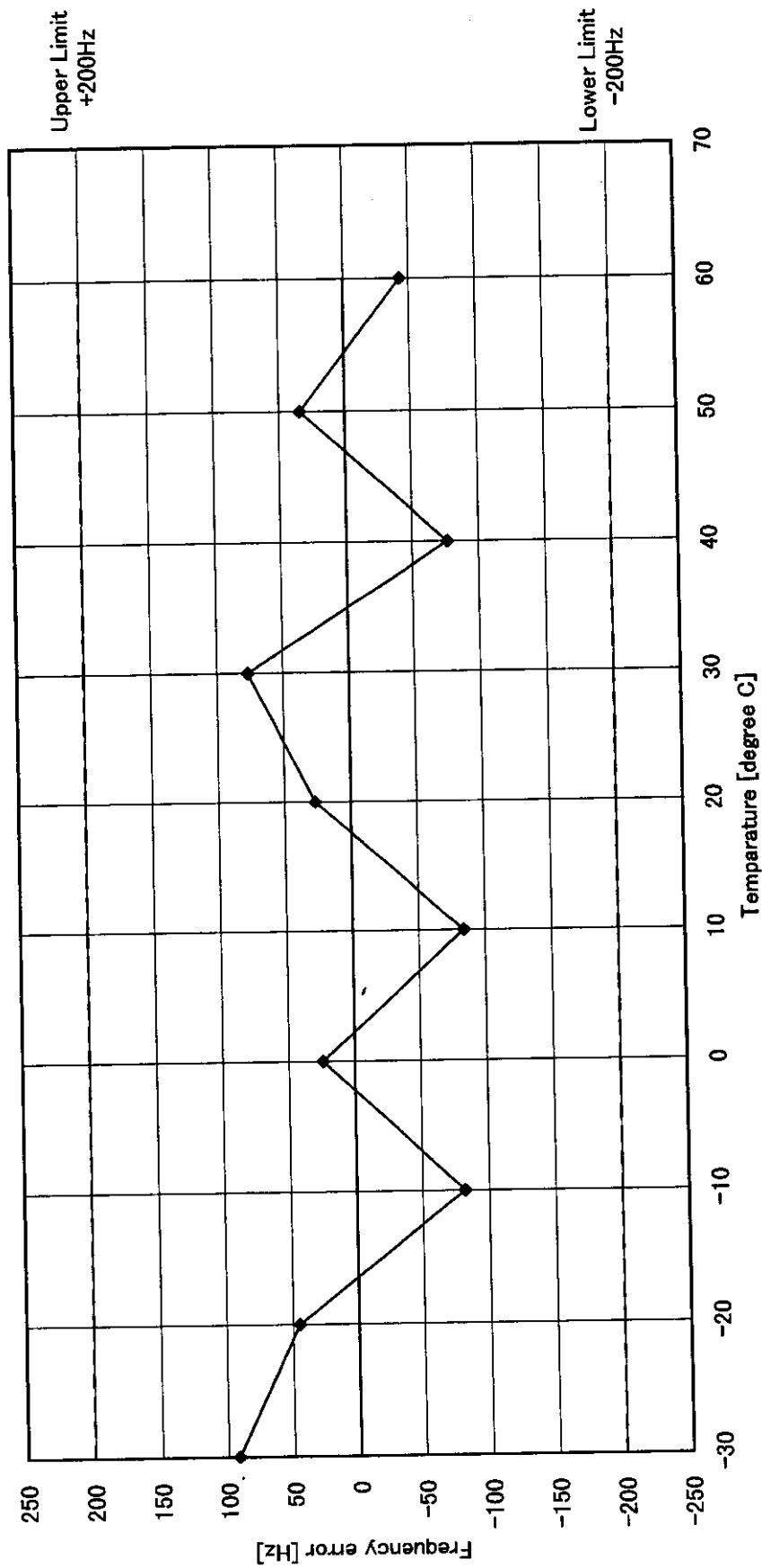


Figure 5.6.2.3 Frequency Stability with Temperature Variation
(1900MHz Digital Mode)

9. ESN Protection Description

The following measures have been taken to protect against fraud due to modification of the ESN or telephone software, in compliance with CFR47, 22.919.

- (1) The stored ESN data in the EEPROM device (which contains information other than the ESN data) is encrypted with a Mitsubishi original algorithm. This ESN data is divided into four groups and interleaved with other data in the EEPROM. The EEPROM contains information other than the ESN data.
- (2) The ESN is never transferred in a readable format across wires on the printed circuit board, nor can the ESN be read by probing the pins of any device.
- (3) In the case that the program software is modified, the software becomes permanently inoperative, and the transmitter cannot be activated.
- (4) The EEPROM device containing encrypted ESN data, and the device containing the main program software, are permanently attached to the circuit board by soldering.
- (5) The ESN write and change must be carried out at one of our manufacturing sites using a dedicated interface tool using special software, an interface box, and a PC. This interface tool will not be supplied to any dealer/distributor.
- (6) To prevent fraudulent cloning and ensure that uniqueness of each ESN is protected, this product uses the Industry Standard Authentication Algorithm (TIA IS-91A). This algorithm incorporates random challenges using shared secret data calculations to prevent cellular system fraud.