

試験報告書

TEST REPORT

Report number 報告書番号 : KR0140-JMIC-2022-0001

Issue date 発行日 : 2022-03-17

申請者 : InterSolutionMarketing, Inc.
Applicant 150-0013 東京都渋谷区恵比寿 1-24-14 EXOS 恵比寿ビル 5F

型式又は名称 : SP98

Model name

製造番号 : N/A

Serial number

測定規格 : 証明規則第2条第19号の規定する特定無線設備の2.4GHz帯高度化小電力データ通信システム
Test procedure

測定方法 : 総務省告示第88号別表第43

Test method

測定日 : 2022-03-07 ~ 2022-03-08

Date of test

試験設備名 : EMC Labs Co., Ltd.

Name of facility

試験結果 : 適合

Test Result

この試験報告書における測定結果は試験された装置にのみ該当します。

また、完全な複製を除き、当試験所の文書による承認なしに、報告書の一部だけを複製することを禁止します。

測定者;

Tested by;

Dae Seong, Choi

承認者;

Approved by;

Yong Min, Won

1. Summary of Test

1. Purpose of test

Ordinance on Technical Standards Conformity Certification of Specified Radio Equipment
2.4GHz Band wide band low power data communication System

2. Standards

Certification Ordinance Article 2 Clause 1 Item19

1) Test Methods

Ministry of Internal Affairs and Communications Notification Article 88 Appendix 43

2) Deviation from standards

None

3. List of applied test to the EUT

Classification of EUT	Condition	Result
Frequency Tolerance	Conducted	PASS
Occupied Bandwidth	Conducted	PASS
Spread Bandwidth	Conducted	PASS
Spurious Emission Intensity	Conducted	PASS
RF Output Power Tolerance	Conducted	PASS
Secondary Emitted Radiated Wave Strength	Conducted	PASS
Dwell Time	Conducted	PASS
Interference Prevention Function	Conducted	PASS

1) Test set up

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2) Modification to the EUT by laboratory

None

2. Test Information

1. Applicant

InterSolutionMarketing, Inc.

150-0013 東京都渋谷区恵比寿 1-24-14 EXOS 恵比寿ビル 5F

2. Equipment under test

50C

3. Model number

SP98

4. Serial number

-

5. Size

(W) 101.7 × (D) 60.9 × (H) 34 mm

6. Terminal limitation

-20°C to 60°C

7. RF Specification Frequency range

Bluetooth BDR, EDR : 2402-2480MHz 79 Channels

8. Number of RF Channels

Bluetooth BDR, EDR : 79 Channels

9. Modulation method

Bluetooth BDR, EDR : GFSK, $\pi/4$ DQPSK, 8DPSK

10. Data rate

-

10. Variation of the family model(s)

None

3. Configuration of equipment

1. Frequency Tolerance, Occupied Bandwidth, Spread Bandwidth, Time of occupancy hopping frequency, Unwanted(Spurious)Emission Strength, Secondary Emittted Radio Wave Strength



2. RF Output Power



4. 試驗結果

Test results

BDR

Environment of test room	Date of test	2022-03-07
	Temperature	26.1 °C
	Humidity	46.1 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	2	mW/MHz
Declaration Output Power	3.0103	dBm/MHz
E.I.R.P.	3.3103	dBm/MHz
Input Power Voltage	3.8	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.880	ms
	OFF TIME	0.864	ms
	Ratio	0.7692	
Packet Type (Mode)		DH5	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [GFSK])
The reason why the tests are performed only at rated voltage;	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Frequency	MHz	2402	2441	2480	Result	Limit	Note
Channel Number	Ch.	0	39	78	---	---	
Frequency Measurements	MHz	2401.994355	2440.993254	2479.993859	---	---	
Frequency Tolerance	ppm	-2.34993	-2.76369	-2.47636	PASS	$\pm 50 \times 10^{-6}$ (50ppm)	
Occupied Bandwidth	MHz	---	77.4105	---	PASS	83.5MHz or below	
Spread Bandwidth	MHz	---	69.9229	---	PASS	500kHz or more	
RF Output Power	mW/MHz	0.536196	0.533733	0.582538	PASS	3mW/MHz or below	
RF Output Power Tolerance	%	-73.190178	-73.313358	-70.873123	PASS	+20 to -80%	
Unwanted (Spurious) Emission Strength	30 to 2387MHz	μ W/MHz	---	0.000153	---	PASS	2.5 μ W/MHz or below
		MHz	---	2293.000	---	---	
	2387 to 2400MHz	μ W/MHz	---	0.013930	---	PASS	25 μ W/MHz or below
		MHz	---	2398.960	---	---	
	2483.5 to 2496.5MHz	μ W/MHz	---	0.018880	---	PASS	25 μ W/MHz or below
		MHz	---	2494.040	---	---	
	2496.5 to 12500MHz	μ W/MHz	---	0.132680	---	PASS	2.5 μ W/MHz or below
		MHz	---	2590.000	---	---	
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	0.007834	---	PASS	4nW or below
		MHz	---	838.000	---	---	
	1000 to 10000MHz	nW	---	0.168267	---	PASS	20nW or below
		MHz	---	8803.000	---	---	
	10000 to 12500MHz	nW	---	0.154525	---	PASS	20nW or below
		MHz	---	12010.000	---	---	
Time of occupancy hopping frequency	sec	---	0.002888	---	PASS	0.4sec or below	
	sec	---	0.274360	---	PASS	0.4sec or below	0.4sec $\times$ Spread rate
Spreading Factor	---		69.922900		PASS	5 or more	
Interference Prevention Function	Good				PASS		

4. 試驗結果

Test results

BDR AFH

Environment of test room	Date of test	2022-03-07
	Temperature	26.1 °C
	Humidity	46.1 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	3	mW/MHz
Declaration Output Power	4.7712	dBm/MHz
E.I.R.P.	5.0712	dBm/MHz
Input Power Voltage	3.8	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.880	ms
	OFF TIME	0.864	ms
	Ratio	0.769	
Packet Type (Mode)		---	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [GFSK])
The reason why the tests are performed only at rated voltage;	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Frequency		MHz	Low	Middle	High	Result	Limit	Note
Channel Number		Ch.	---	---	---	---	---	
Frequency Measurements		MHz	---	---	---	---	---	
Frequency Tolerance		ppm	---	---	---	---	---	
Occupied Bandwidth		MHz	19.4887	19.5613	19.5688	PASS	83.5MHz or below	
Spread Bandwidth		MHz	17.651	17.9964	17.9409	PASS	500kHz or more	
RF Output Power		mW/MHz	2.163585	2.122060	1.950290	PASS	3mW/MHz or below	
RF Output Power Tolerance		%	-27.880487	-29.264658	-34.990343	PASS	+20 to -80%	
Unwanted (Spurious) Emission Strength	30 to 2387MHz	uW/MHz	0.137820	0.157650	0.140990	PASS	2.5uW/MHz or below	
		MHz	2262.000	2283.000	2319.000	----		
	2387 to 2400MHz	uW/MHz	1.750000	0.018520	0.140990	PASS	25uW/MHz or below	
		MHz	2399.990	2399.050	2398.740	----		
	2483.5 to 2496.5MHz	uW/MHz	0.038750	0.021140	0.023610	PASS	25uW/MHz or below	
		MHz	2495.950	2487.630	2483.800	----		
	2496.5 to 12500MHz	uW/MHz	0.322030	0.143220	1.370000	PASS	2.5uW/MHz or below	
		MHz	2560.000	2590.000	2620.000	----		
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	1000 to 10000MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	10000 to 12500MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
Time of occupancy hopping frequency		sec	0.003	0.003	0.003	PASS	0.4sec or below	
		sec	0.192	0.276	0.276	PASS	0.4sec or below	0.4sec×Spread rate
Spreading Factor		---	17.651	17.996	17.941	PASS	5 or more	
Interference Prevention Function			Good			PASS		

*The low, middle, high in Measurement Frequency represents the range frequency.
(Low: 2402-2421 MHz, Middle: 2432-2451 MHz, High: 2461-2480 MHz)

4. 試驗結果

Test results

EDR

Environment of test room	Date of test	2022-03-08
	Temperature	26.3 °C
	Humidity	46.6 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	0.5	mW/MHz
Declaration Output Power	-3.0103	dBm/MHz
E.I.R.P.	-2.7103	dBm/MHz
Input Power Voltage	3.8	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.908	ms
	OFF TIME	0.843	ms
	Ratio	0.7753	
Packet Type (Mode)		3DH5	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [8DPSK])
The reason why the tests are performed only at rated voltage;	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Frequency	MHz	2402	2441	2480	Result	Limit	Note
Channel Number	Ch.	0	39	78	---	---	
Frequency Measurements	MHz	2401.981444	2440.979984	2479.980451	---	---	
Frequency Tolerance	ppm	-7.72533	-8.19993	-7.88258	PASS	$\pm 50 \times 10^{-6}$ (50ppm)	
Occupied Bandwidth	MHz	---	78.1389	---	PASS	83.5MHz or below	
Spread Bandwidth	MHz	---	71.182	---	PASS	500kHz or more	
RF Output Power	mW/MHz	0.150377	0.139696	0.118627	PASS	3mW/MHz or below	
RF Output Power Tolerance	%	-69.924527	-72.060896	-76.274659	PASS	+20 to -80%	
Unwanted (Spurious) Emission Strength	30 to 2387MHz	μ W/MHz	---	0.051860	---	PASS	2.5 μ W/MHz or below
		MHz	---	2293.000	---	---	
	2387 to 2400MHz	μ W/MHz	---	0.007840	---	PASS	25 μ W/MHz or below
		MHz	---	2399.350	---	---	
	2483.5 to 2496.5MHz	μ W/MHz	---	0.007790	---	PASS	25 μ W/MHz or below
		MHz	---	2487.060	---	---	
	2496.5 to 12500MHz	μ W/MHz	---	0.046070	---	PASS	2.5 μ W/MHz or below
		MHz	---	2590.000	---	---	
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	0.008222	---	PASS	4nW or below
		MHz	---	487.800	---	---	
	1000 to 10000MHz	nW	---	0.175792	---	PASS	20nW or below
		MHz	---	8983.000	---	---	
	10000 to 12500MHz	nW	---	0.175388	---	PASS	20nW or below
		MHz	---	11585.000	---	---	
Time of occupancy hopping frequency	sec	---	0.002908	---	PASS	0.4sec or below	
	sec	---	0.279168	---	PASS	0.4sec or below	0.4sec $\times$ Spread rate
Spreading Factor	---		71.182000		PASS	5 or more	
Interference Prevention Function		Good			PASS		

4. 試驗結果

Test results

EDR AFH

Environment of test room	Date of test	2022-03-08
	Temperature	26.3 °C
	Humidity	46.6 %

Peak Antenna Gain	0.30	dBi
Declaration Output Power	1	mW/MHz
Declaration Output Power	0.0000	dBm/MHz
E.I.R.P.	0.3000	dBm/MHz
Input Power Voltage	3.8	VDC

Frequency equal to the Transmission rate		1	MHz
Transmission Time	ON TIME	2.908	ms
	OFF TIME	0.864	ms
	Ratio	0.771	
Packet Type (Mode)		---	mode
Transmit Speed		1	MHz

Test category ;	2.4GHz Band Low-Power Data Communication System (Bluetooth [8DPSK])
The reason why the tests are performed only at rated voltage;	When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Measurement Frequency		MHz	Low	Middle	High	Result	Limit	Note
Channel Number		Ch.	---	---	---	---	---	
Frequency Measurements		MHz	---	---	---	---	---	
Frequency Tolerance		ppm	---	---	---	---	---	
Occupied Bandwidth		MHz	19.8269	19.9798	19.9244	PASS	83.5MHz or below	
Spread Bandwidth		MHz	17.836	18.0085	18.102	PASS	500kHz or more	
RF Output Power		mW/MHz	0.496226	0.460786	0.386590	PASS	3mW/MHz or below	
RF Output Power Tolerance		%	-50.377365	-53.921351	-61.340991	PASS	+20 to -80%	
Unwanted (Spurious) Emission Strength	30 to 2387MHz	uW/MHz	0.039240	0.045090	0.046250	PASS	2.5uW/MHz or below	
		MHz	2260.000	2276.000	2314.000	----		
	2387 to 2400MHz	uW/MHz	0.249750	0.008040	0.046250	PASS	25uW/MHz or below	
		MHz	2399.960	2398.700	2399.730	----		
	2483.5 to 2496.5MHz	uW/MHz	0.010700	0.006500	0.008960	PASS	25uW/MHz or below	
		MHz	2490.960	2487.760	2484.340	----		
	2496.5 to 12500MHz	uW/MHz	0.111920	0.057680	0.099270	PASS	2.5uW/MHz or below	
		MHz	2560.000	2590.000	2630.000	----		
Secondary Emitted Radio Wave Strength	30 to 1000MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	1000 to 10000MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
	10000 to 12500MHz	nW	---	---	---	---	---	
		MHz	---	---	---	---	---	
Time of occupancy hopping frequency		sec	0.003	0.003	0.003	PASS	0.4sec or below	
		sec	0.274	0.276	0.279	PASS	0.4sec or below	0.4sec×Spread rate
Spreading Factor		---	17.836	18.009	18.102	PASS	5 or more	
Interference Prevention Function			Good			PASS		

*The low, middle, high in Measurement Frequency represents the range frequency.
(Low: 2402-2421 MHz, Middle: 2432-2451 MHz, High: 2461-2480 MHz)

5. 試験機器リスト

Measurement equipment list

USE	Equipment	Company	Model No.	Serial No.	Calibrated by	Cal. Method	Cal. Due	Cal. Date
	EPM SERIES POWER METER	AGILENT	E4419B	MY41291980	HCT	ハ(c)	May. 2022	May. 14, 2021
	E-SERIES AVG POWER SENSOR	H.P	E9301A	US39210340	HCT	ハ(c)	May 2022	May 14, 2021
	E-SERIES AVG POWER SENSOR	AGILENT	E9301A	US39212396	HCT	ハ(c)	May 2022	May 14, 2021
	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101952	HCT	ハ(c)	Apr. 2022	Apr. 9, 2021
X	TEMP & HUMID CHAMBER	JFM Engineering	JFMA-001	20200929-01	HCT	ハ(c)	Dec. 2022	Dec. 17, 2021
X	CONTROLLER	SAMWON TECHNOLOGY	TEMI2500	S7800VK191 0707	HCT	ハ(c)	Dec. 2022	Dec. 17, 2021
X	PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	MY45304057	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	MXG ANALOG SIGNAL GENERATOR	AGILENT	N5183A	MY50141890	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	SYSTEM DC POWER SUPPLY	AGILENT	6674A	MY53000118	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	257524	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	BLUETOOTH TESTER	TESCOM	TC-3000A	3000A480088	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	DIRECTIONAL COUPLER	AGILENT	773D	2839A01855	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	ATTENUATOR	AGILENT	8493C	73193	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	TERMINATION	HEWLETT PACKARD	909D	7492	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	POWER DIVIDER	HEWLETT PACKARD	11636A	6916	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	SLIDE-AC	DAEKWANG T&M CO.,LTD.	SV-1023	-	HCT	ハ(c)	-	-
	DIGITAL MULTIMETER	humantechstore	15B+	50561541WS	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
	Temperature and Humidity Datalogger	GEM	DT-172	201000251	HCT	ハ(c)	Apr. 2022	Apr. 14, 2021
	DFS MASTER DEVICE	NETGEAR	RAX50	6AJ10B7RA007E	HCT	ハ(c)	-	-
	DFS SLAVE DEVICE	ipTIME	A1000U	A1000U 09BC02862	HCT	ハ(c)	-	-
	ATTENUATOR	ACE RF COM	ATT SMA 20W 20dB 8G	A-0820.SM20.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM SMA F 20W 8G	A-0008.SM20.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	ATTENUATOR	ACE RF COM	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ハ(c)	Apr 2022	Apr. 15, 2021
	ATTENUATOR	ACE RF COM	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ハ(c)	Apr 2022	Apr. 15, 2021
	ATTENUATOR	ACE RF COM	ATT 2.92 2W 20dB 40G	A-4020.2902.1	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
	TERMINATION	ACE RF COM	TERM 2.92 F 2W 40G	A-0040.2920.2	HCT	ハ(c)	Apr. 2022	Apr. 15, 2021
X	E-SERIES AVG POWER SENSOR	AGILENT	E9304A	MY41499030	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	E-SERIES AVG POWER SENSOR	AGILENT	E9304A	MY41499039	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	Power meter	AGILENT	E4419B	GB38410188	HCT	ハ(c)	Dec. 2022	Dec. 15, 2021
X	DC POWER SUPPLY	AGILENT	E3634A	NUBICOM	HCT	ハ(c)	Feb. 2023	Feb. 3, 2022

Note1: 測定機器の較正は、1年間有効です。

The calibration of measurement equipment is valid for one year period.

Note2: "X" は使用した測定機器です。

"X" used equipment.

Note3: 較正方法 ...

Cal.Method ...

イ): 独立行政法人情報通信研究機構(以下「機構」という。)又は第二百二条の十八第一項の指定較正機関が行う較正

a): Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)

ロ): 計量法(平成四年法律第五十一号)第百三十五条又は第百四十四条の規定に基づく校正

b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)

ハ): 外国において行う較正であつて、機構又は第二百二条の十八第一項の指定較正機関が行う較正に相当するもの

c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)

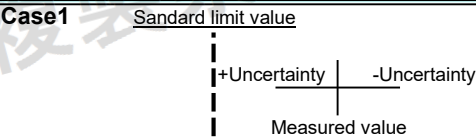
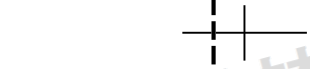
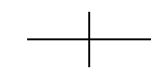
ニ): 別表第三の下欄に掲げる測定器その他の設備であつて、イからハまでのいずれかに掲げる較正等を受けたものをを用いて行う較正等

d): Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

6. 測定の不確かさ

About uncertainty of measured value

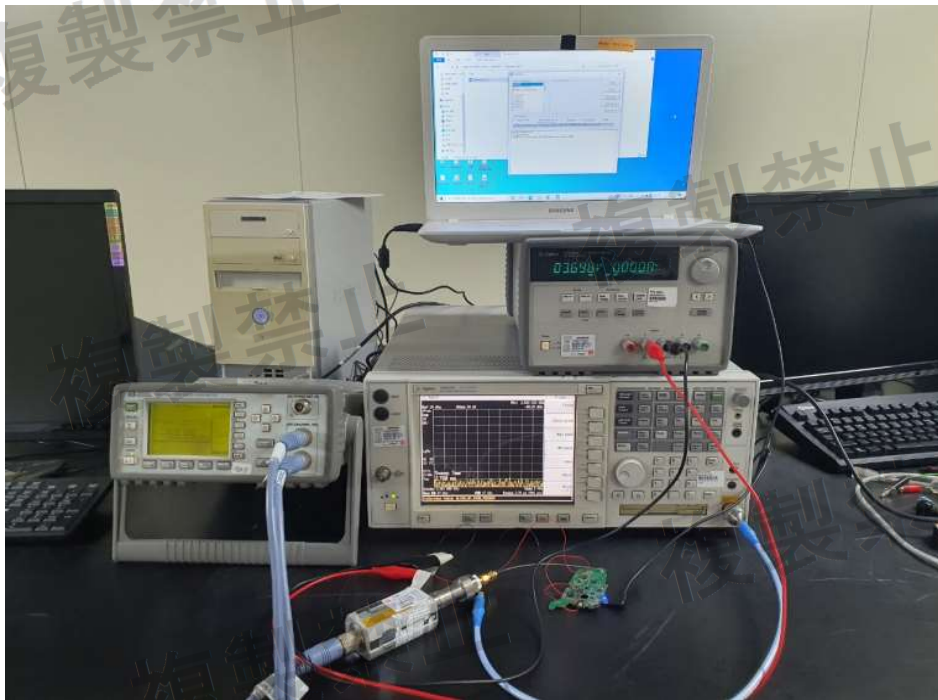
Parameter	Uncertainty
Total RF power conducted	± 0.292 dB
Spurious emissions conducted	± 0.40 dB
Temperature	$\pm 0.8^{\circ}\text{C}$
Humidity	$\pm 4.4\%$

判定	Measured value and standard limit value	
PASS	Case1 	Standard limit value +Uncertainty -Uncertainty Measured value Even if it takes uncertainty into consideration, a standard limit value is fulfilled.
	Case2 	Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.
FAIL	Case3 	Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.
	Case4 	Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.

7. 測定写真

Photographs

Conducted Measurement Photo



8. 測定チャート

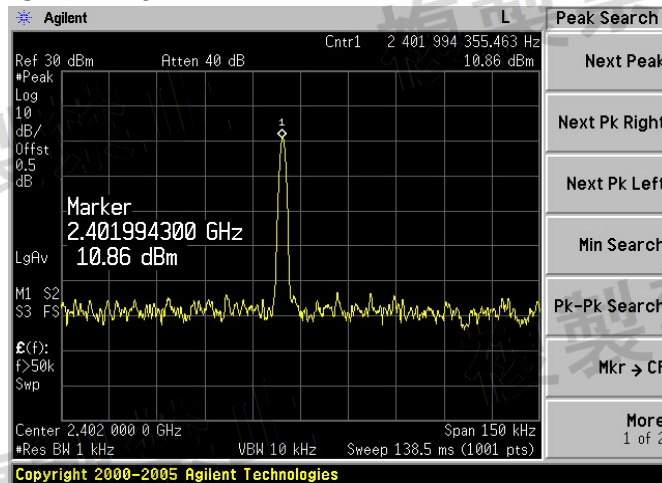
Test chart

8.1 周波数の偏差

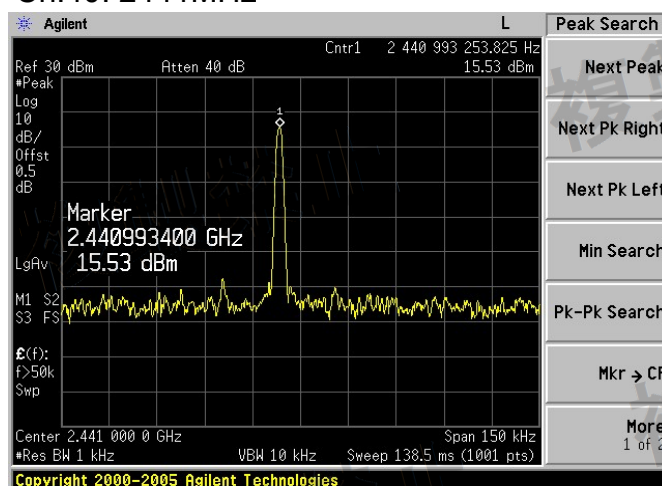
Frequency tolerance

BDR

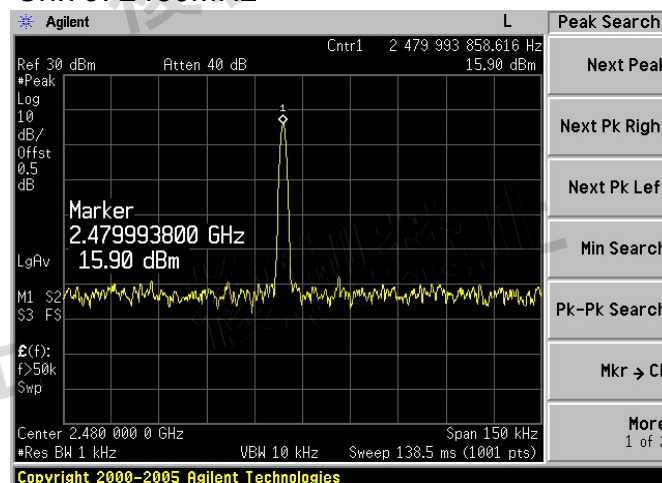
Ch.1: 2402MHz



Ch.40: 2441MHz



Ch.79: 2480MHz



8. 測定チャート

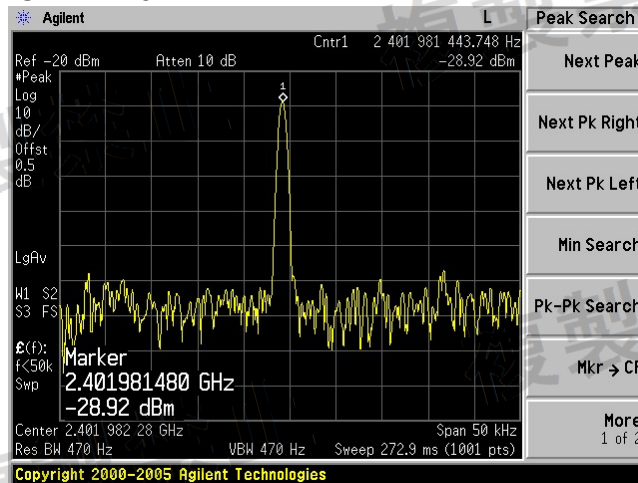
Test chart

8.1 周波数の偏差

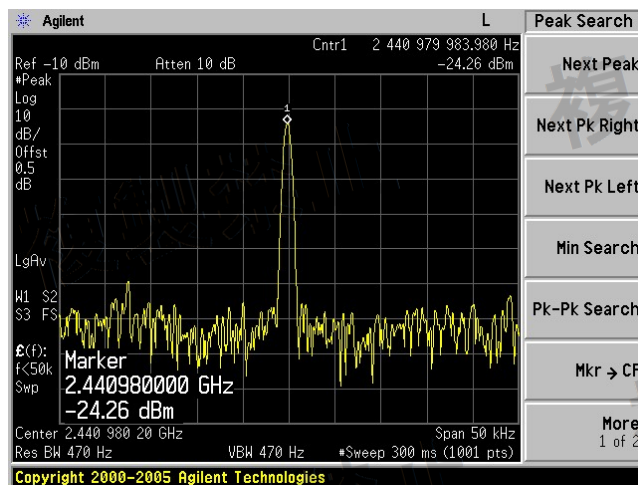
Frequency tolerance

EDR

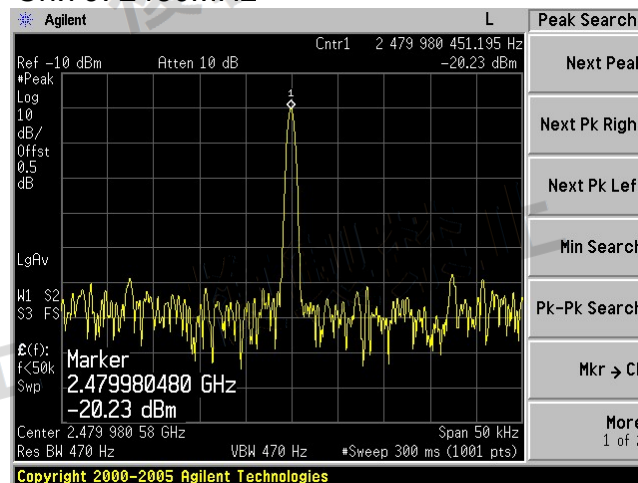
Ch.1: 2402MHz



Ch.40: 2441MHz



Ch.79: 2480MHz

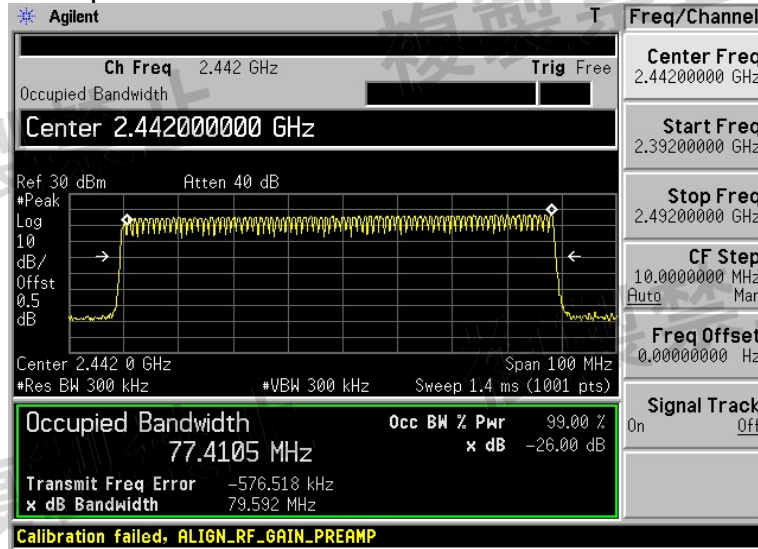


8.2 占有周波数帯幅及び拡散帯域幅

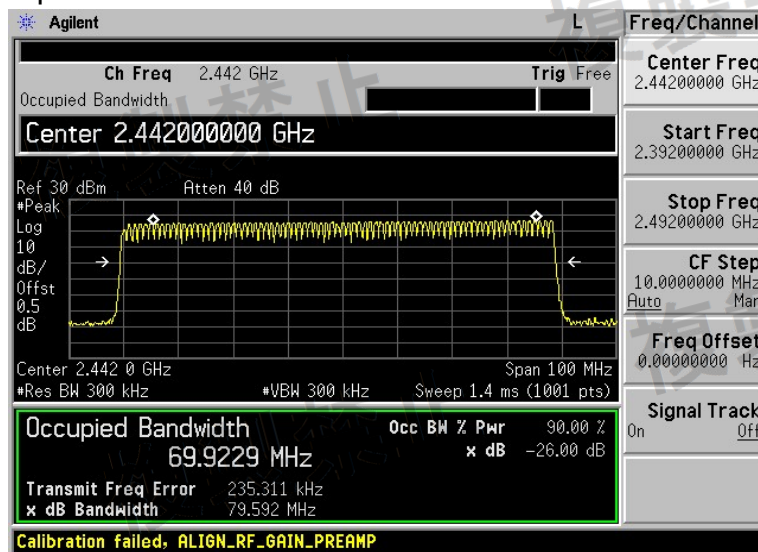
Occupied bandwidth / Spread bandwidth

BDR

Occupied bandwidth



Spread bandwidth

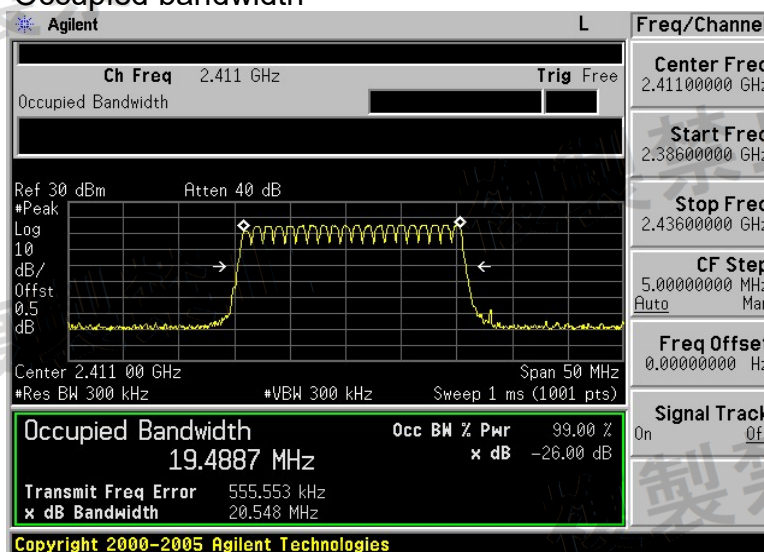


8.2 占有周波数帯幅及び拡散帯域幅

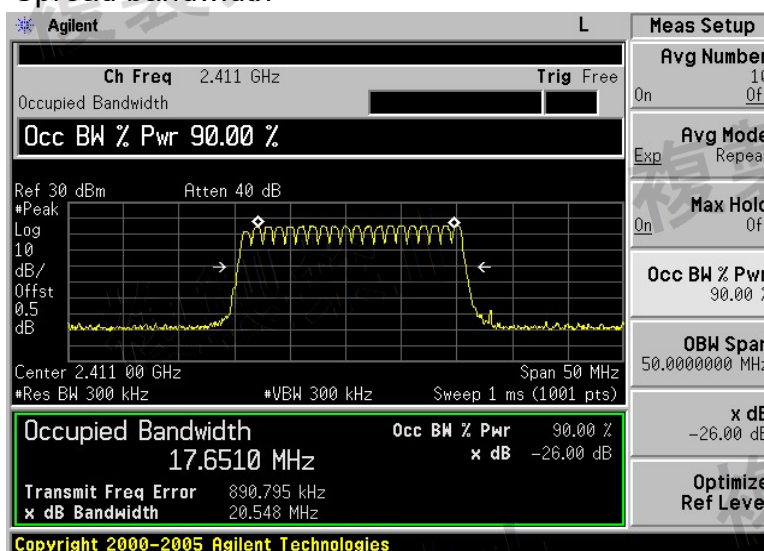
BDR AFH

Ch:Low

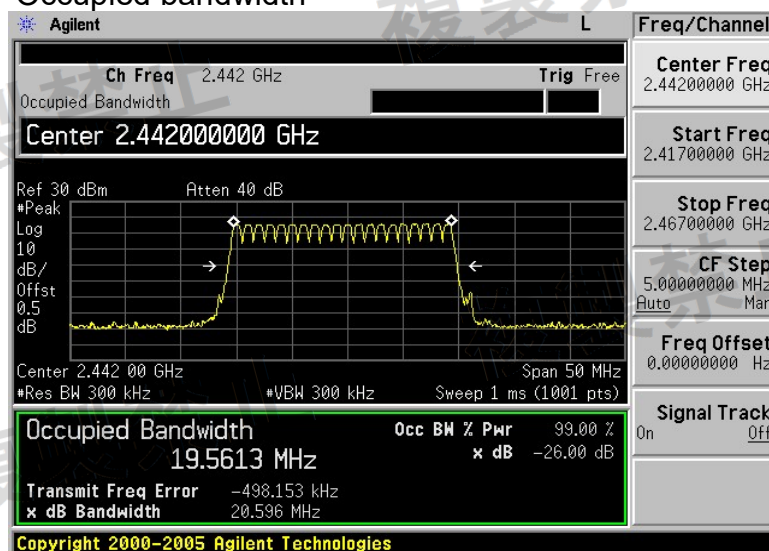
Occupied bandwidth



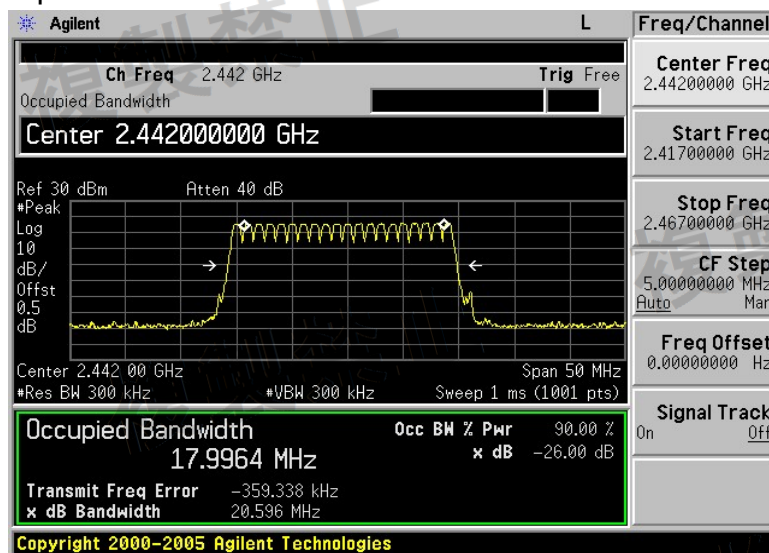
Spread bandwidth



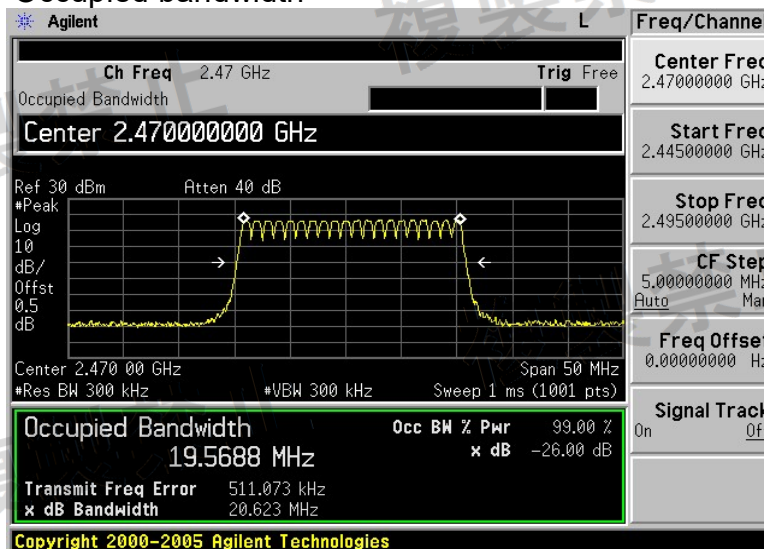
Ch:Middle
Occupied bandwidth



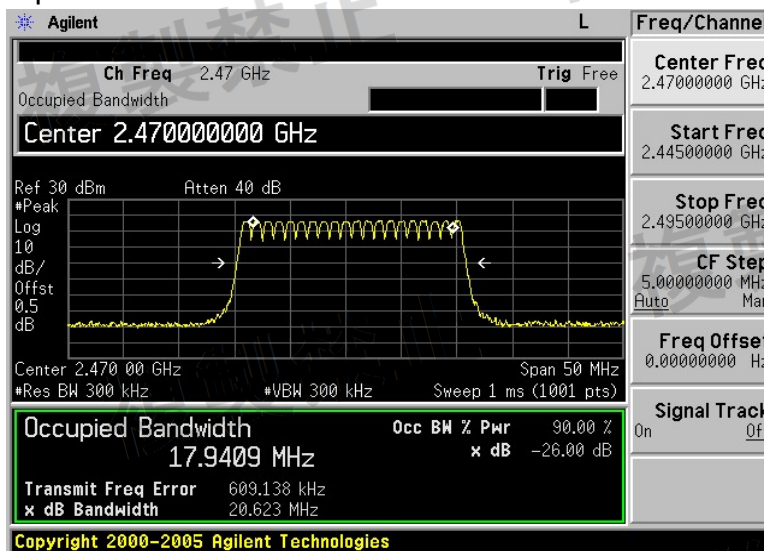
Spread bandwidth



Ch:High
Occupied bandwidth



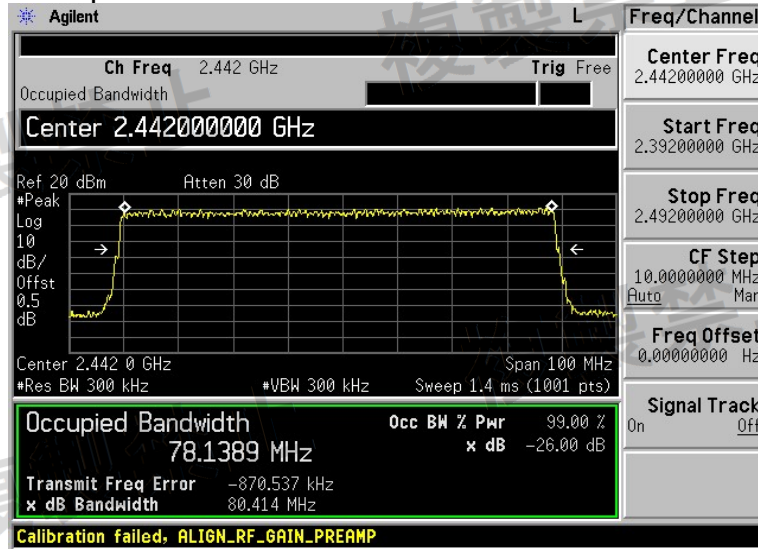
Spread bandwidth



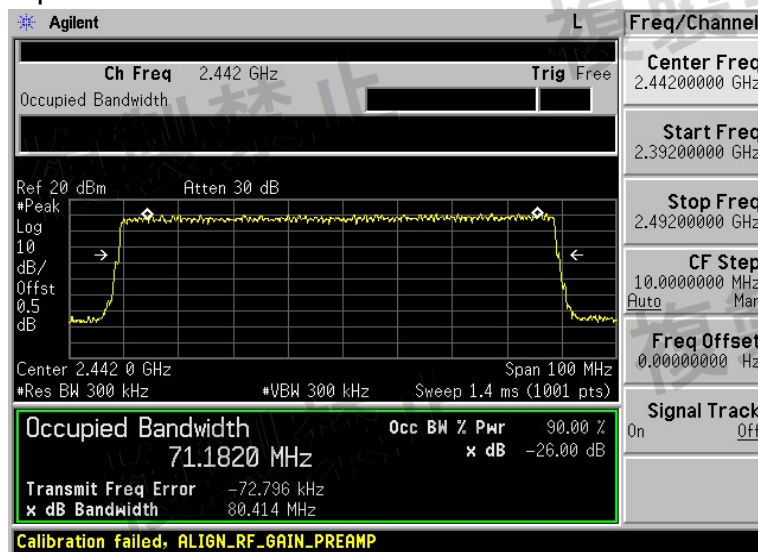
8.2 占有周波数帯幅及び拡散帯域幅 Occupied bandwidth / Spread bandwidth

EDR

Occupied bandwidth



Spread bandwidth

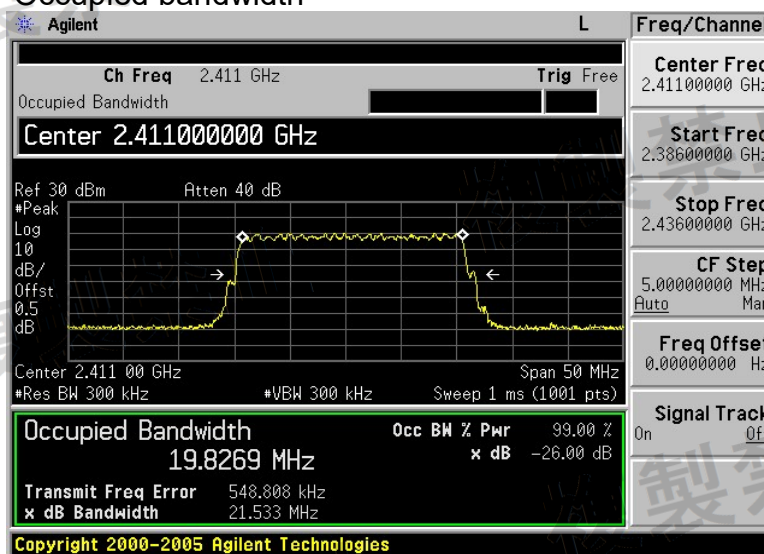


8.2 占有周波数帯幅及び拡散帯域幅

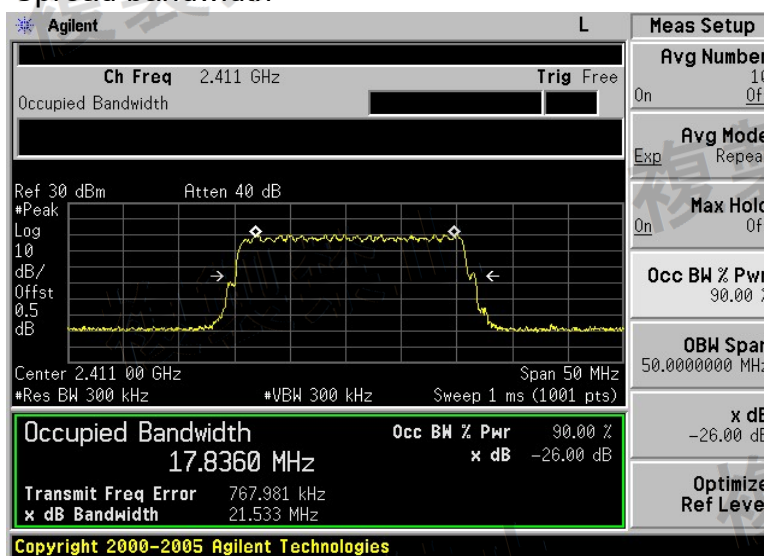
EDR AFH

Ch:Low

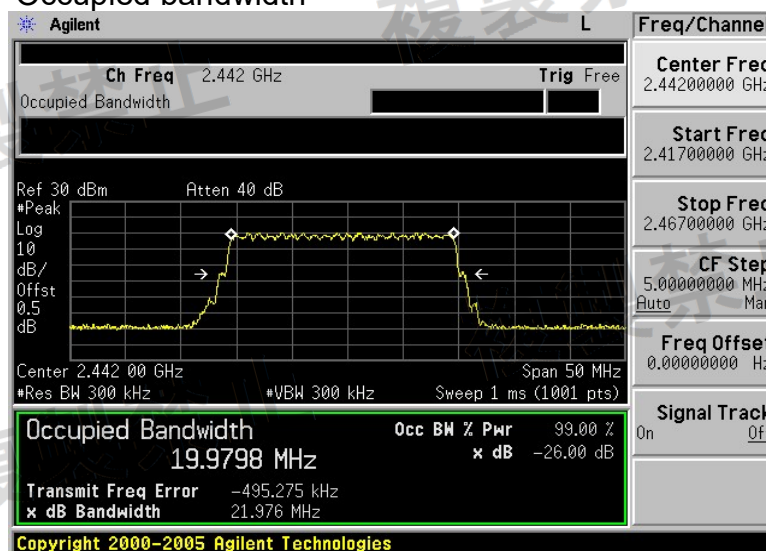
Occupied bandwidth



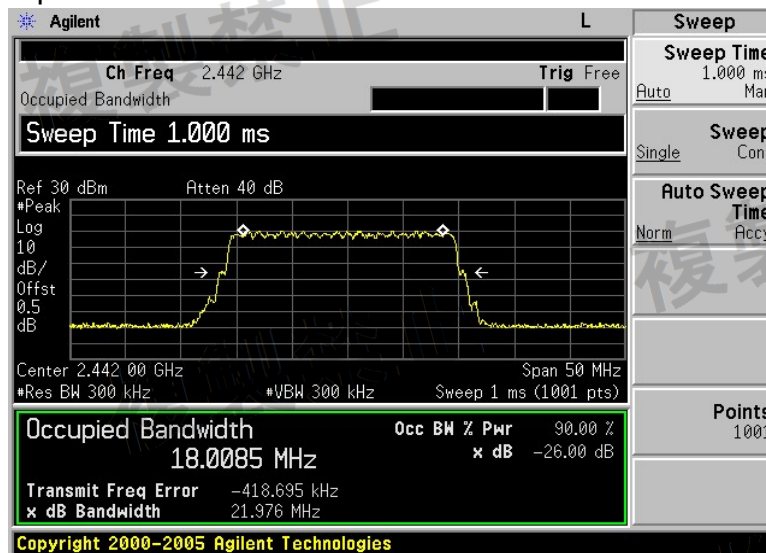
Spread bandwidth



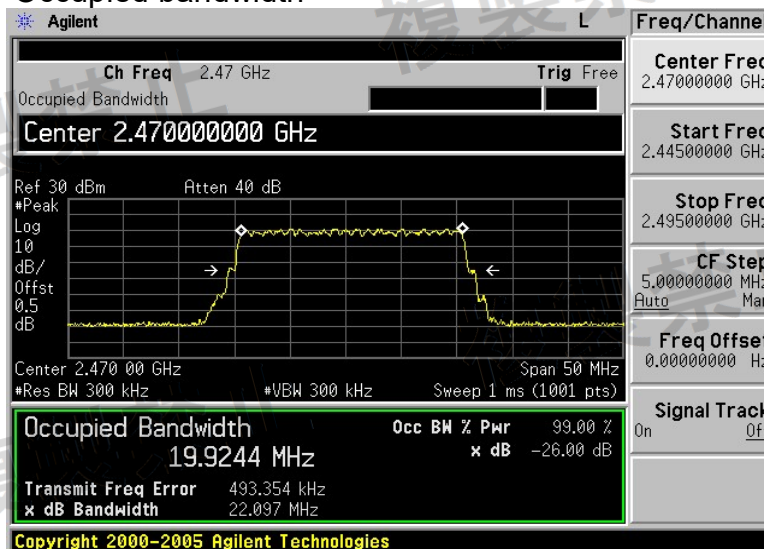
Ch:Middle
Occupied bandwidth



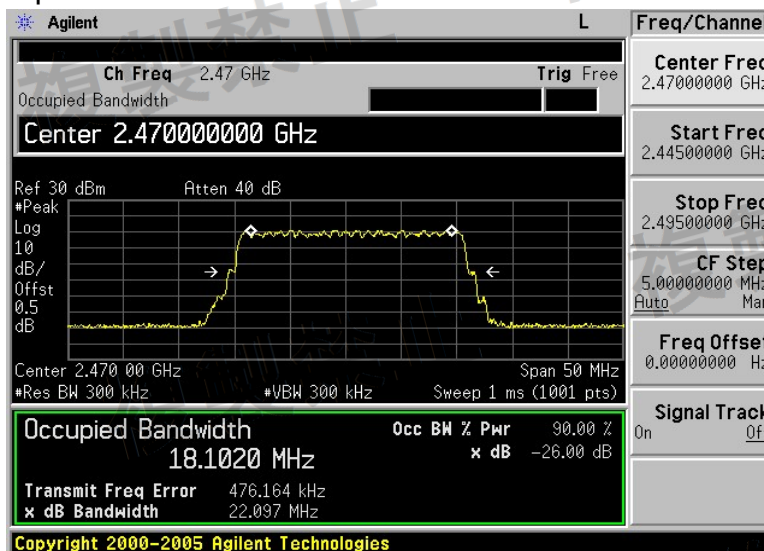
Spread bandwidth



Ch:High
Occupied bandwidth



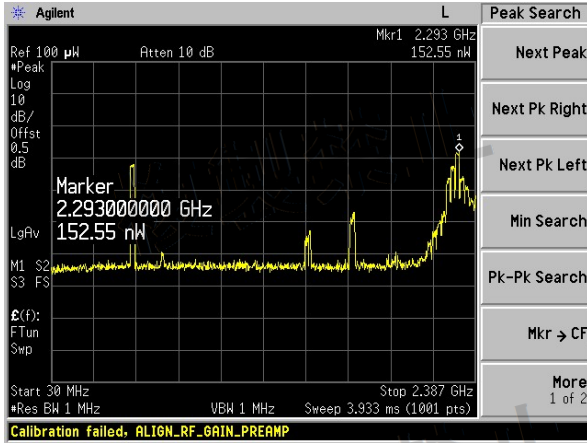
Spread bandwidth



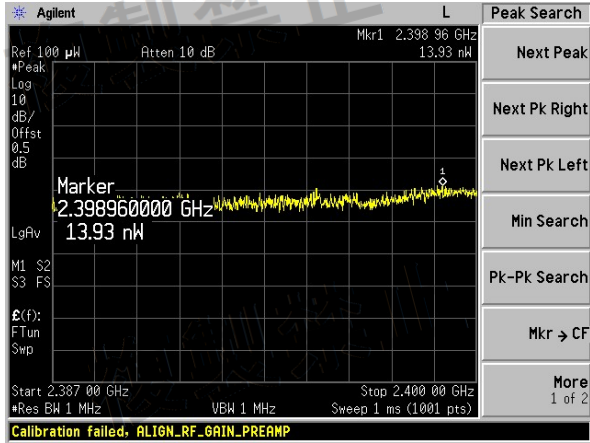
8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

BDR

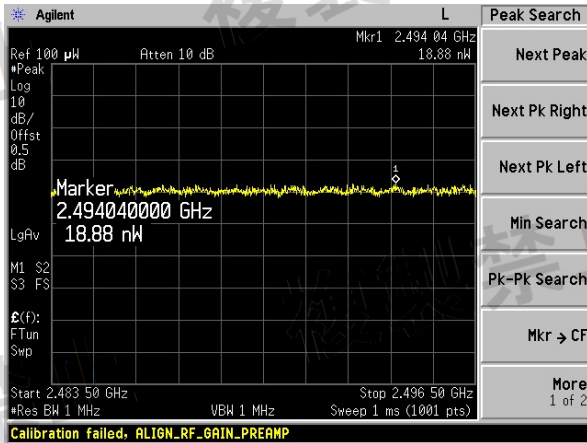
30-2387MHz



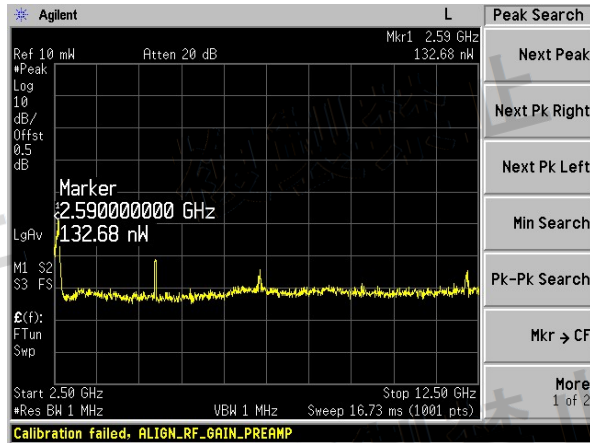
2387-2400MHz



2483.5-2496.5MHz



2496.5-12500MHz



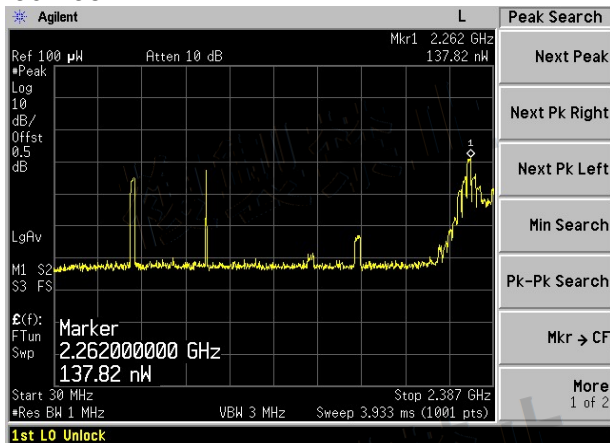
8.3スプリアスの発射又は不要発射の強度

Unwanted(Spurious) emission strength

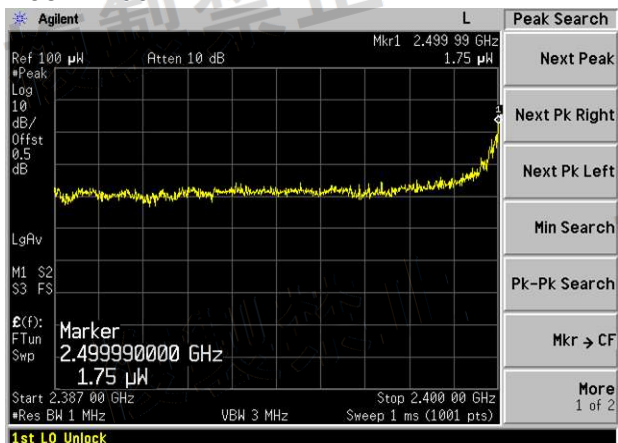
BDR AFH

Ch:Low

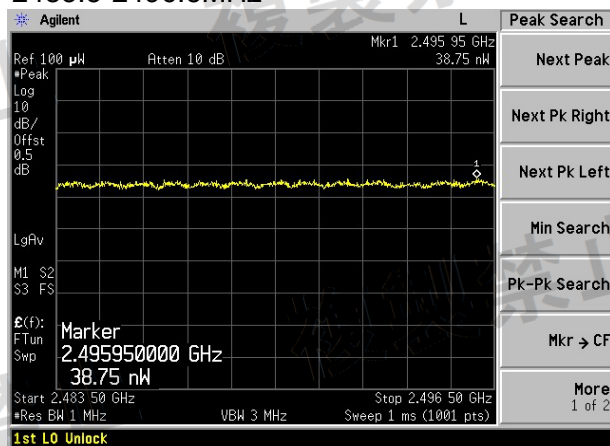
30-2387MHz



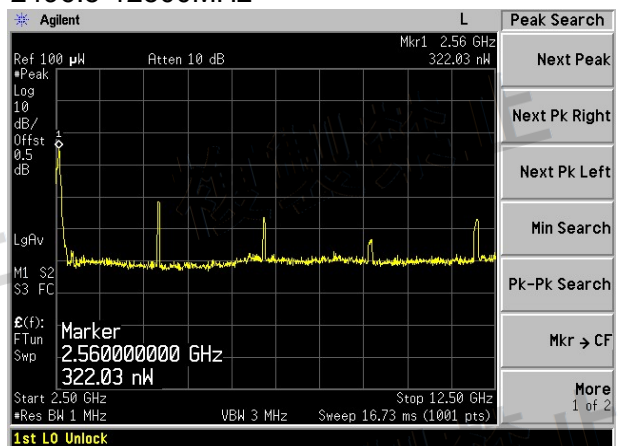
2387-2400MHz



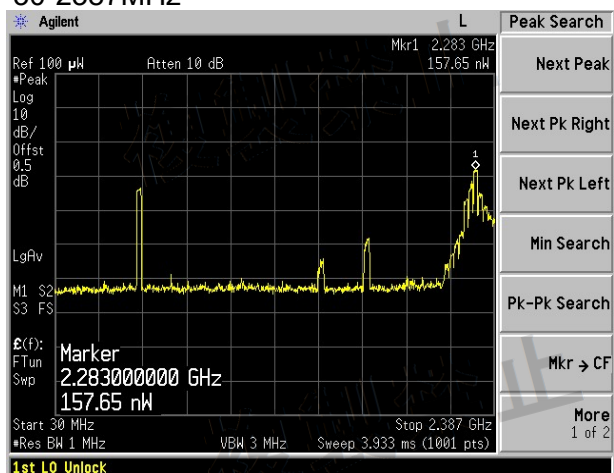
2483.5-2496.5MHz



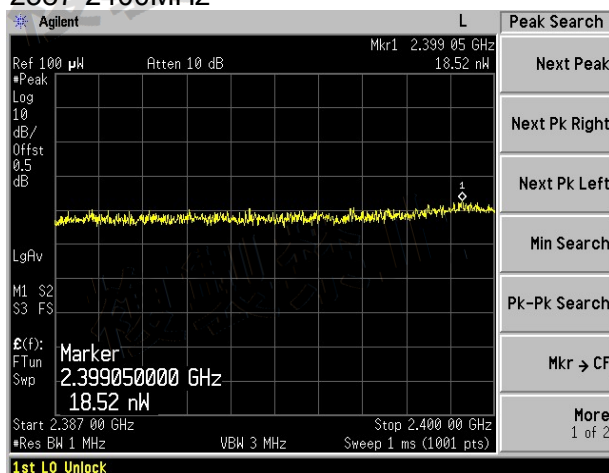
2496.5-12500MHz



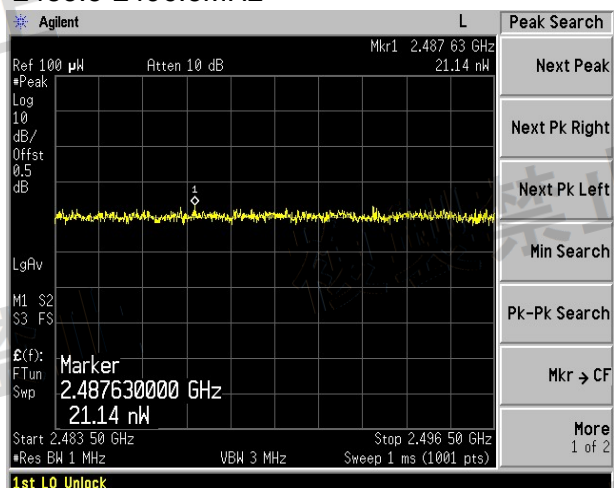
Ch:Middle
30-2387MHz



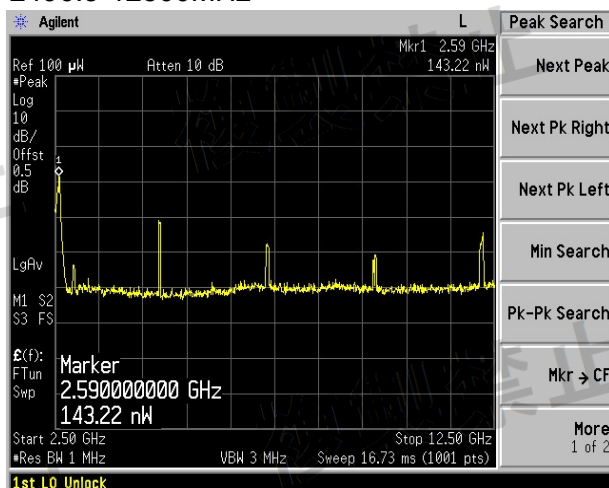
2387-2400MHz



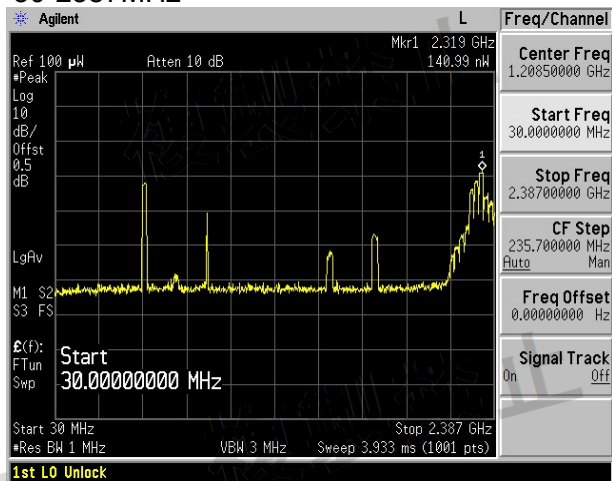
2483.5-2496.5MHz



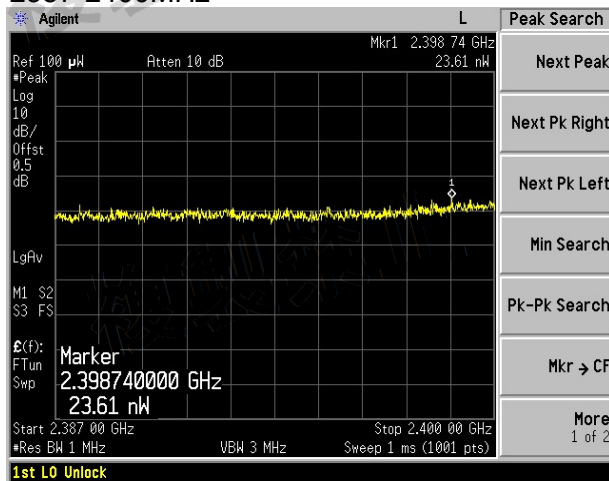
2496.5-12500MHz



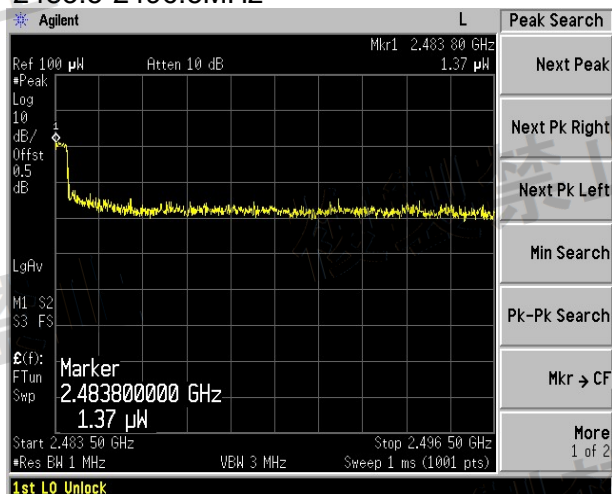
Ch:High
30-2387MHz



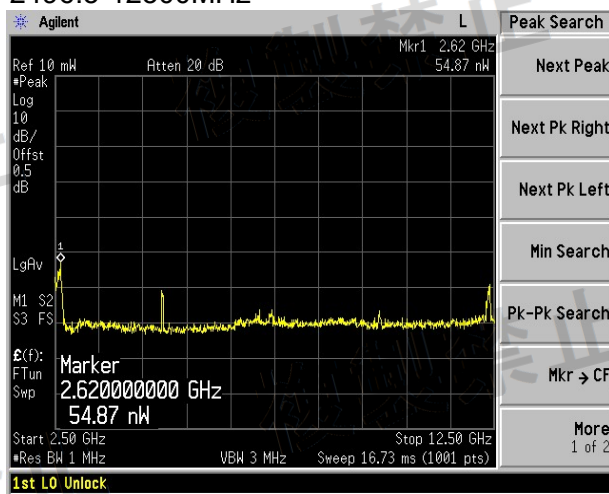
2387-2400MHz



2483.5-2496.5MHz



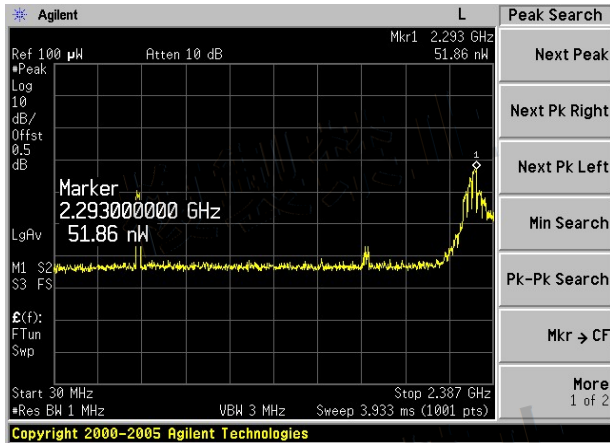
2496.5-12500MHz



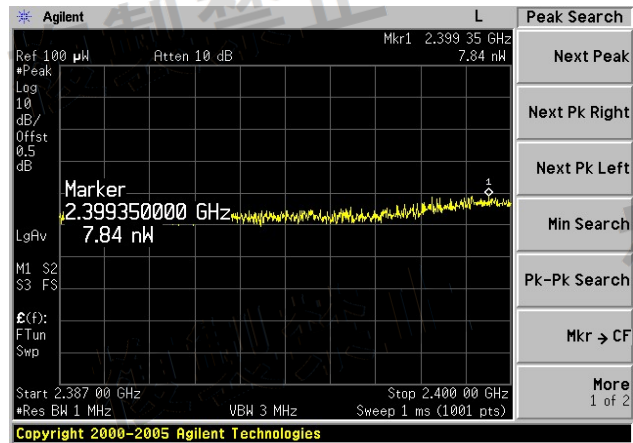
8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

EDR

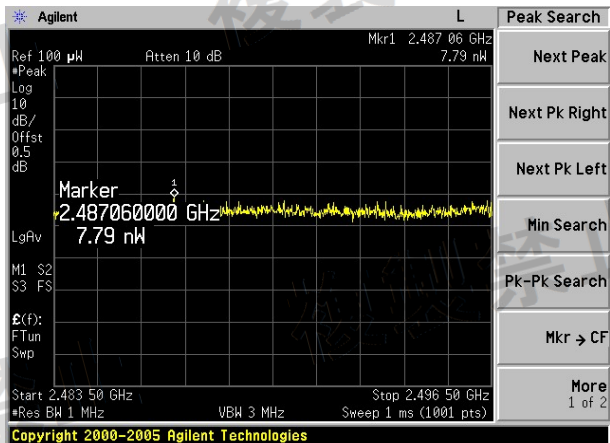
30-2387MHz



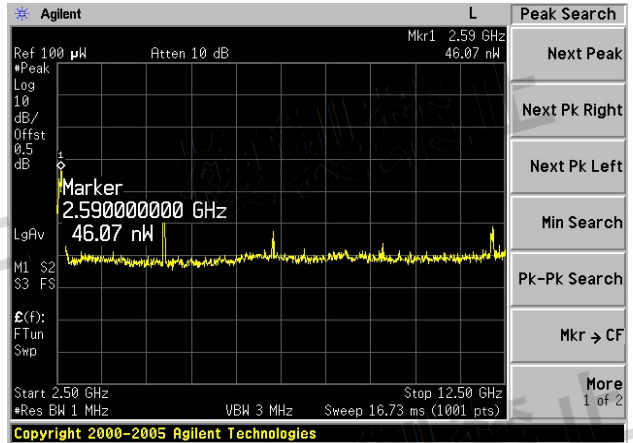
2387-2400MHz



2483.5-2496.5MHz



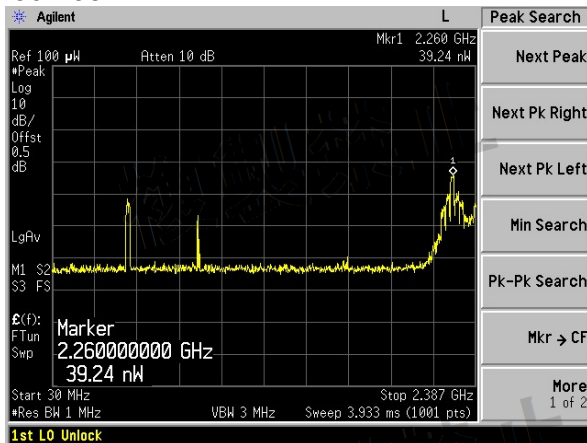
2496.5-12500MHz



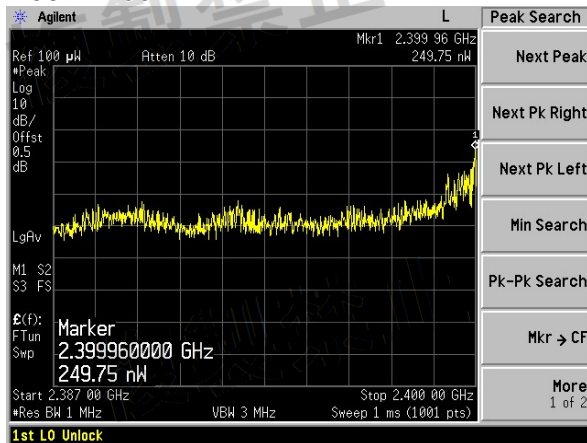
8.3スプリアスの発射又は不要発射の強度
Unwanted(Spurious) emission strength

EDR AFH

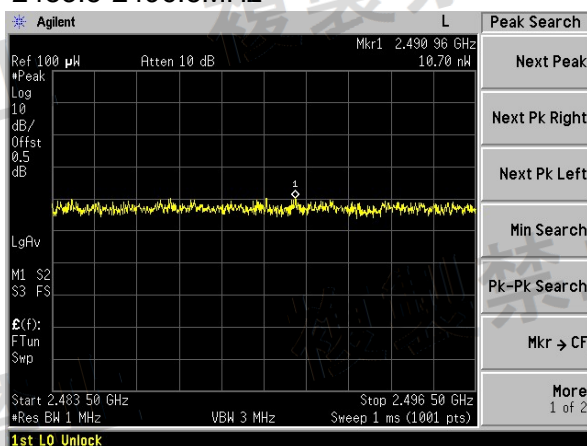
Ch:Low
30-2387MHz



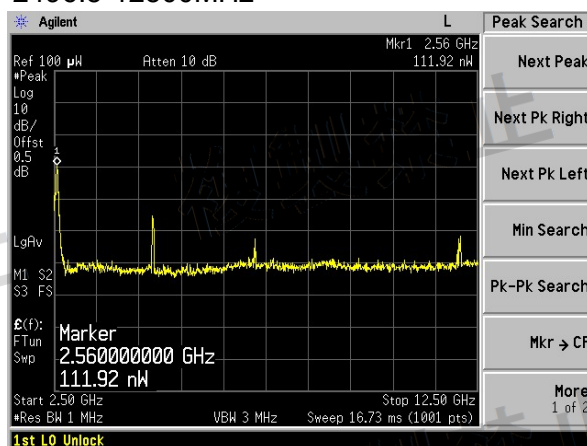
2387-2400MHz



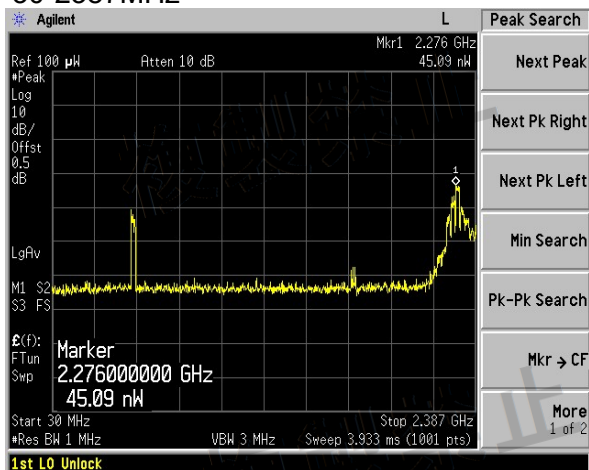
2483.5-2496.5MHz



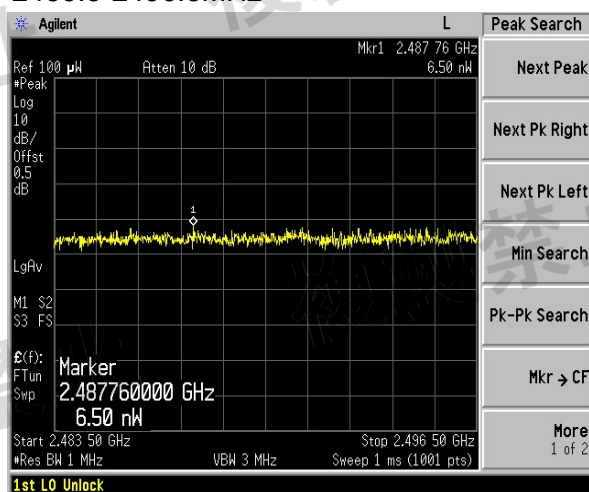
2496.5-12500MHz



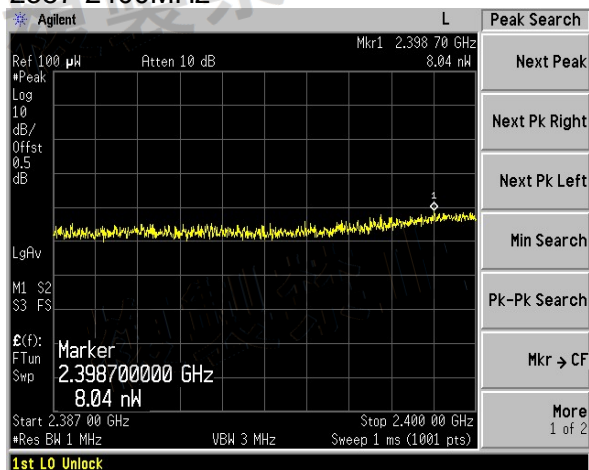
Ch:Middle
30-2387MHz



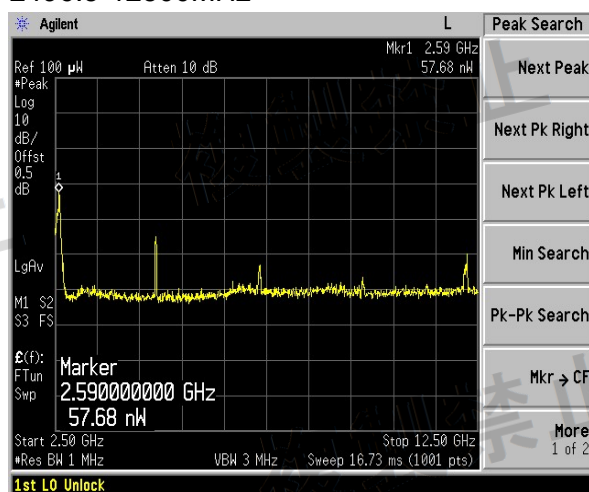
2483.5-2496.5MHz



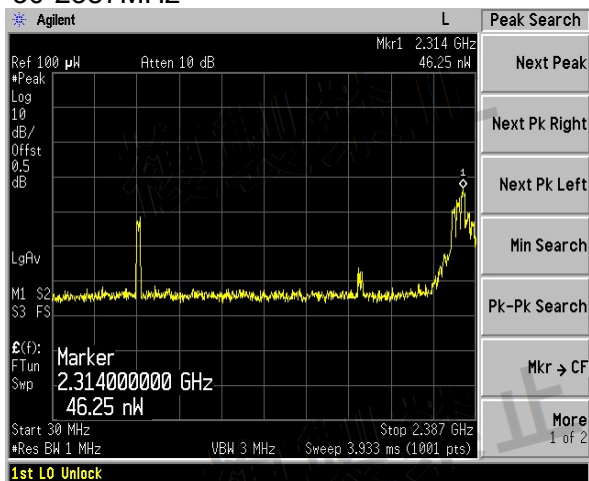
2387-2400MHz



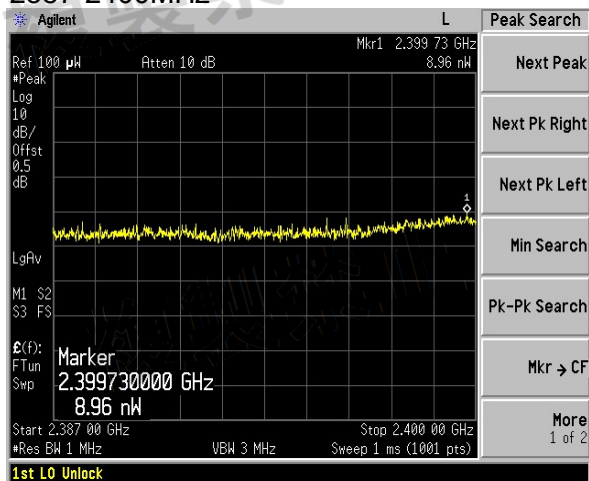
2496.5-12500MHz



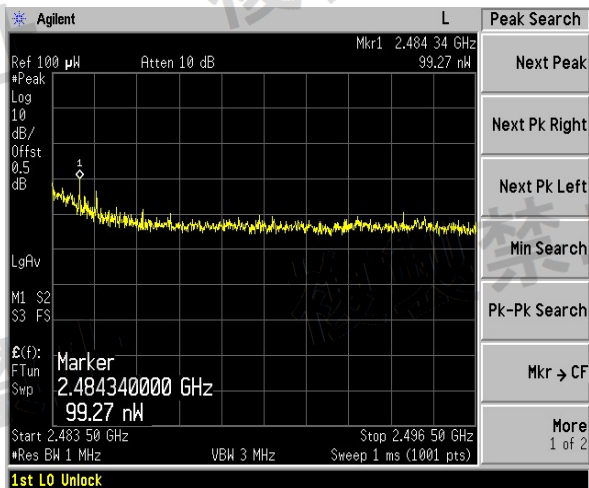
Ch:High
30-2387MHz



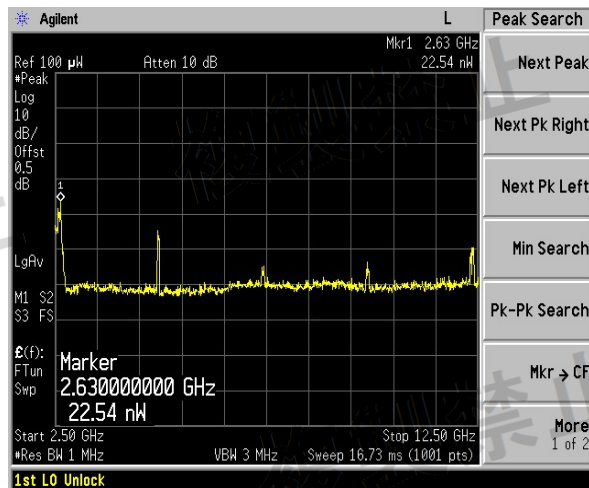
2387-2400MHz



2483.5-2496.5MHz



2496.5-12500MHz



8.4 空中線電力の偏差
RF output power tolerance

BDR

Ch.1: 2402MHz



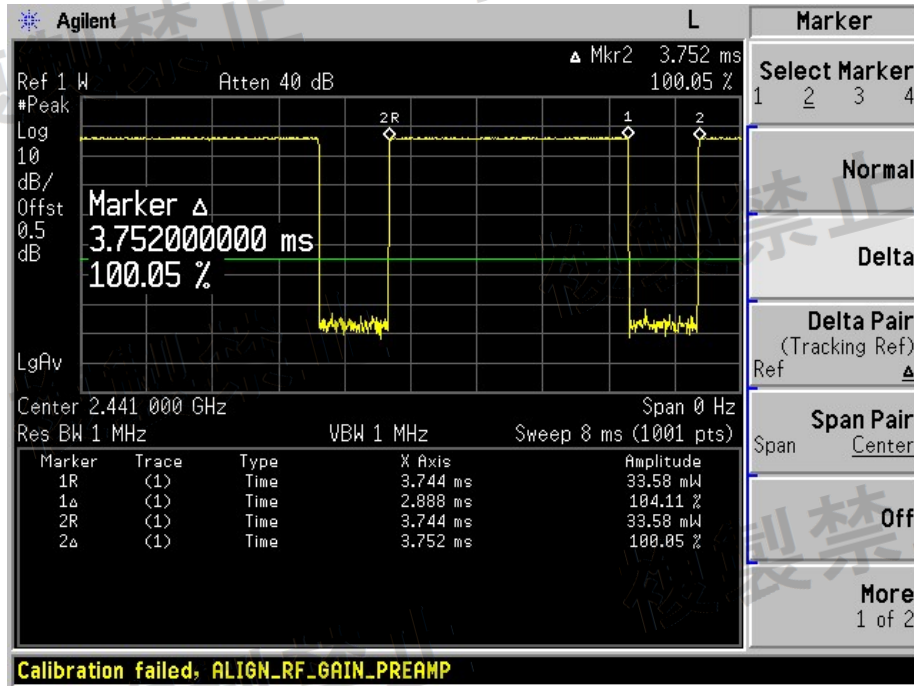
Ch.40: 2441MHz



Ch.79: 2480MHz



On Time / On + Off Time



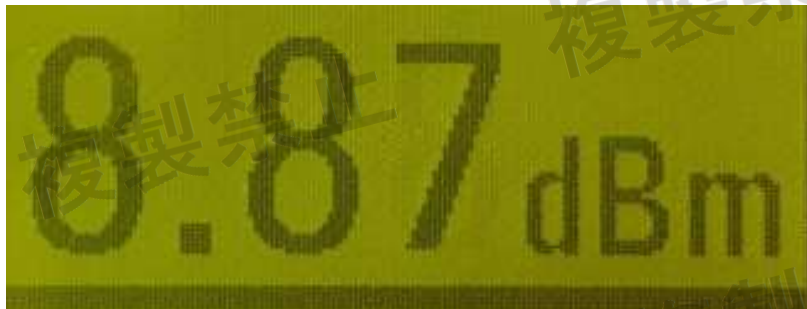
8.4 空中線電力の偏差
RF output power tolerance

EDR

Ch.1: 2402MHz



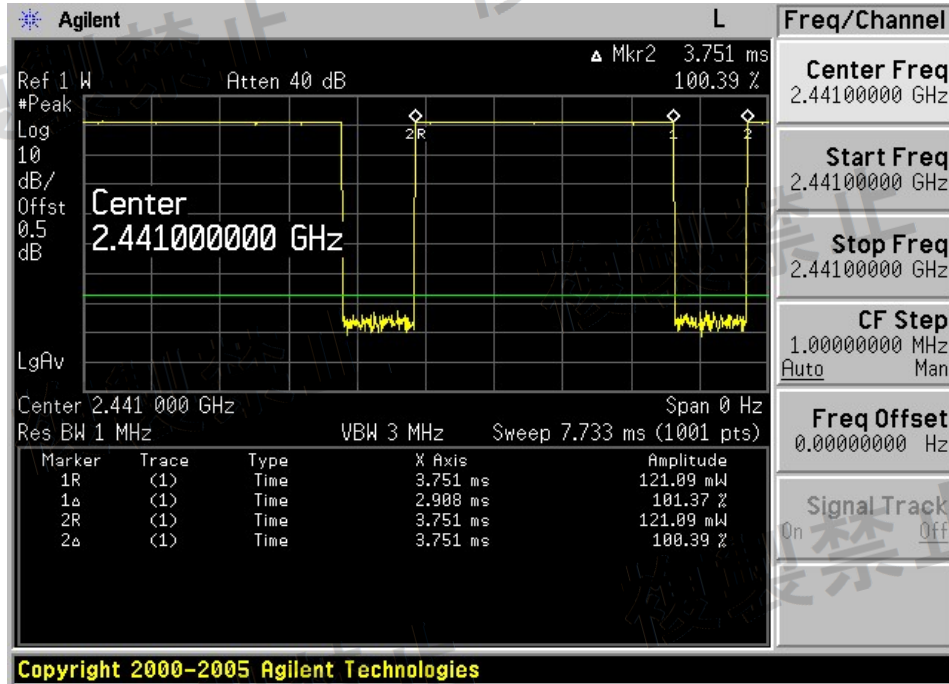
Ch.40: 2441MHz



Ch.79: 2480MHz



On Time / On + Off Time



8.4 空中線電力の偏差
RF output power tolerance

BDR AFH

Ch.1: 2402MHz



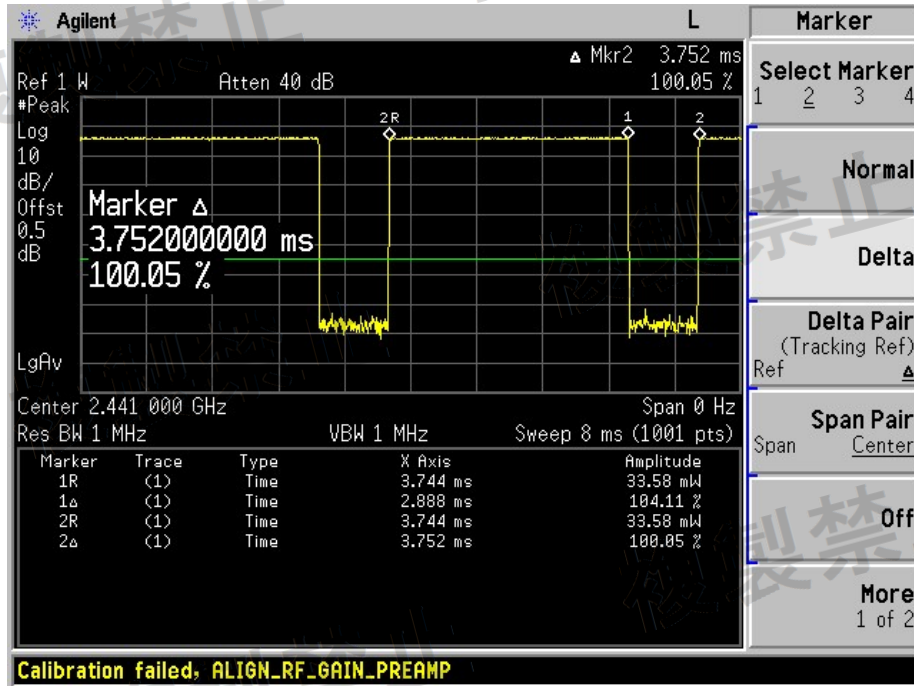
Ch.40: 2441MHz



Ch.79: 2480MHz



On Time / On + Off Time



8.4 空中線電力の偏差
RF output power tolerance

EDR AFH

Ch.1: 2402MHz

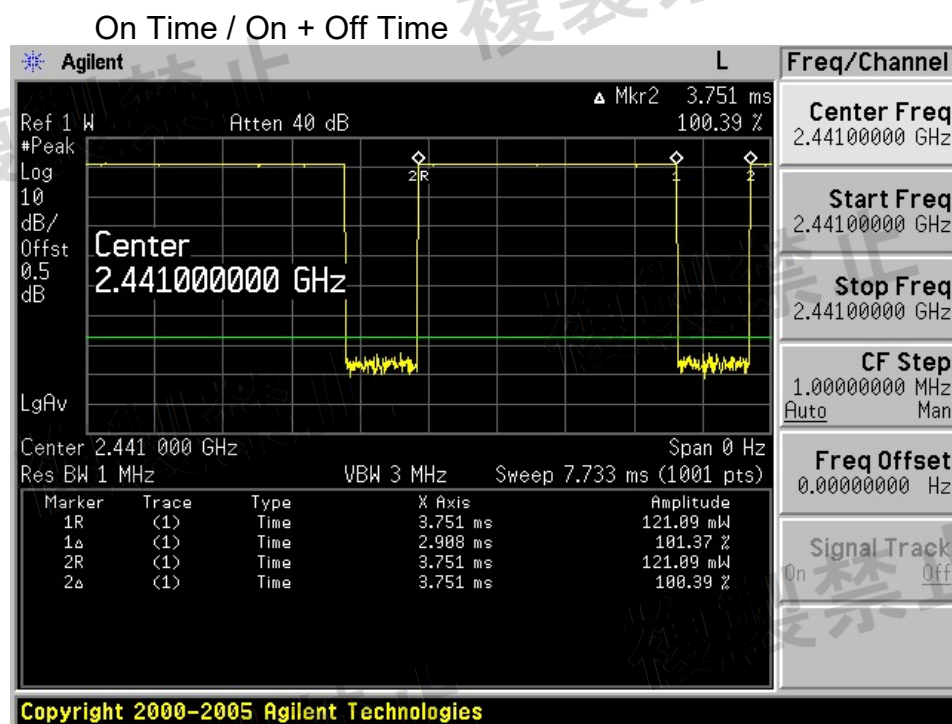


Ch.40: 2441MHz



Ch.79: 2480MHz

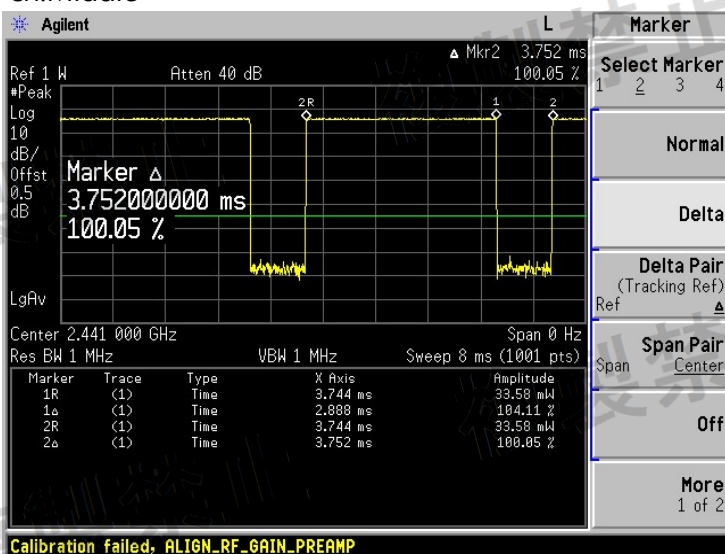




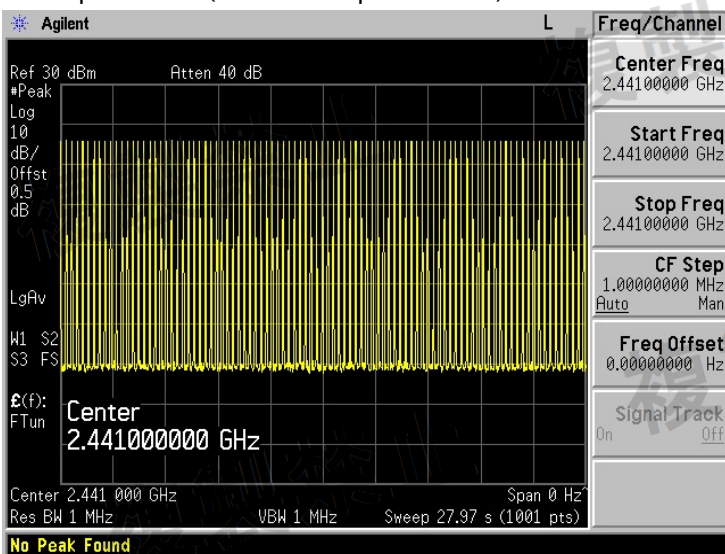
8.5 ホッピング周波数滞留時間 Time of occupancy hopping frequency

BDR

ch:Middle



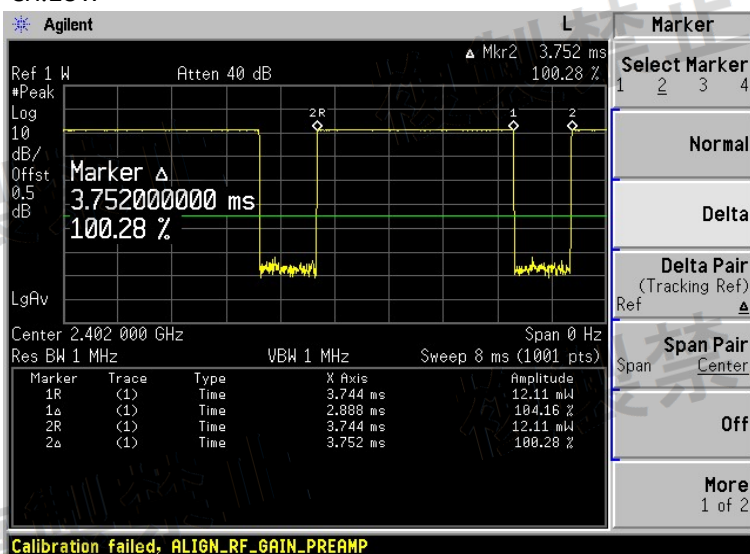
Sweep time = (0.4 sec x Spread rate)



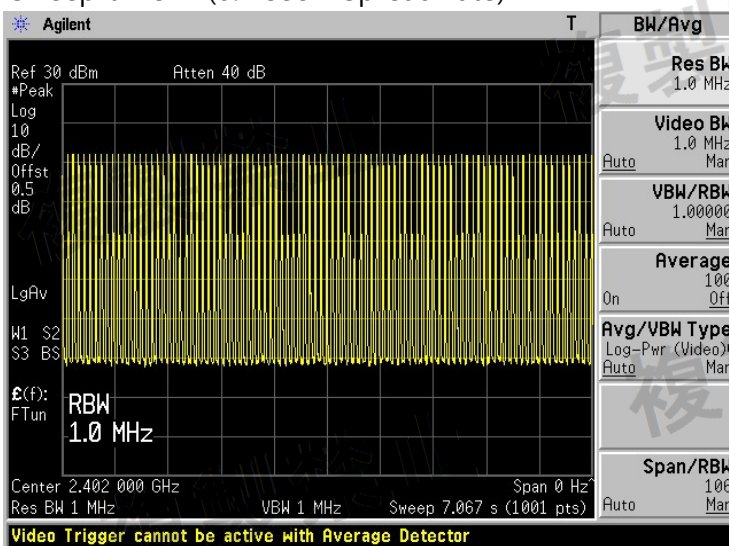
8.5 ホッピング周波数滞留時間 Time of occupancy hopping frequency

BDR AFH

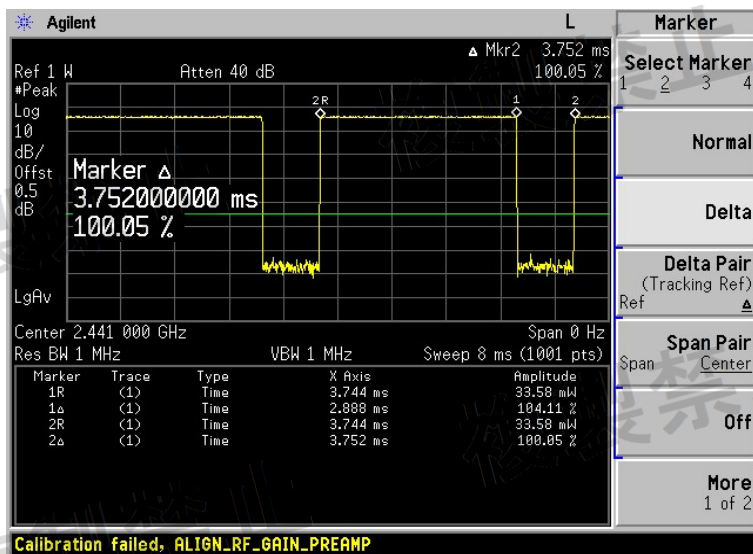
ch:Low



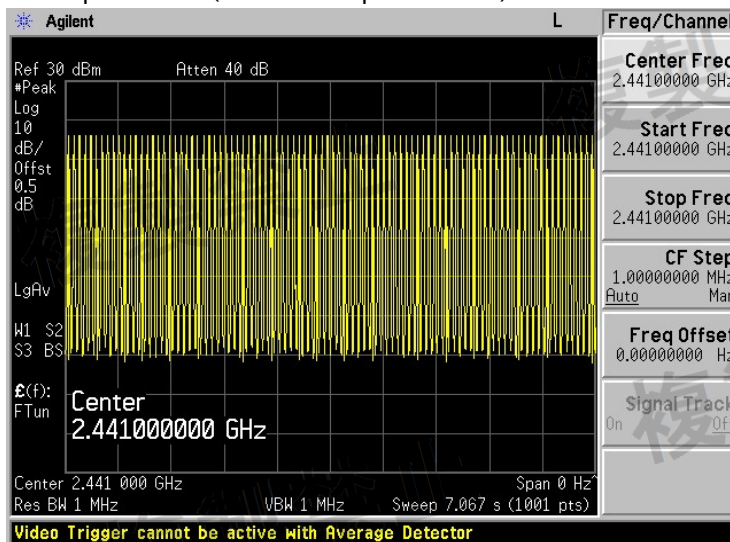
Sweep time = (0.4 sec x Spread rate)



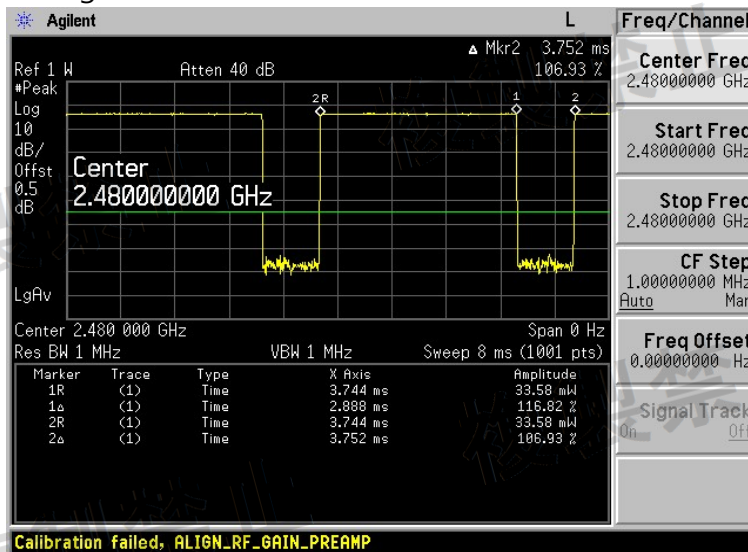
ch:Middle



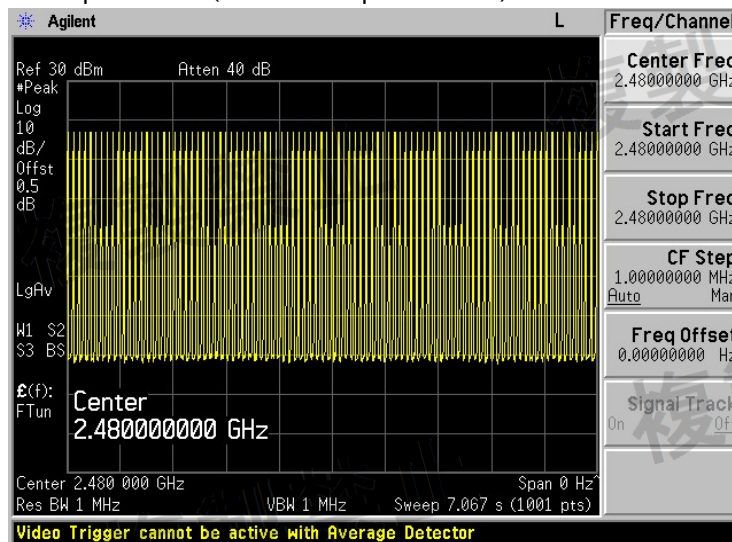
Sweep time = (0.4 sec x Spread rate)



ch:High



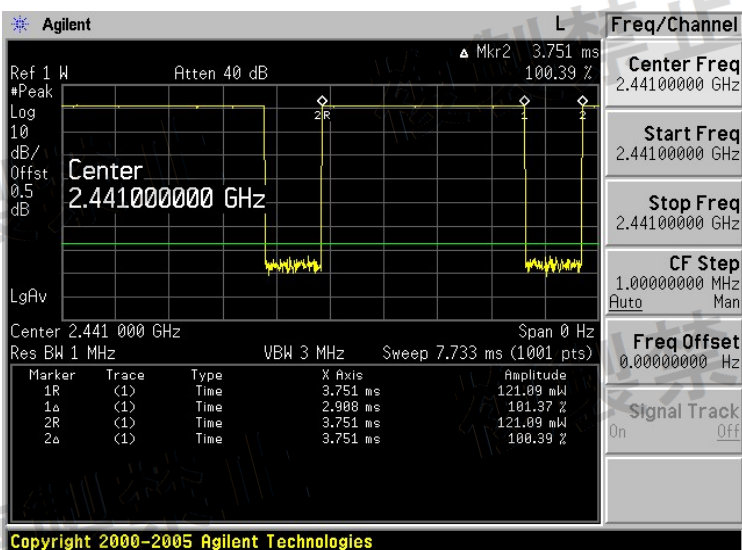
Sweep time = (0.4 sec x Spread rate)



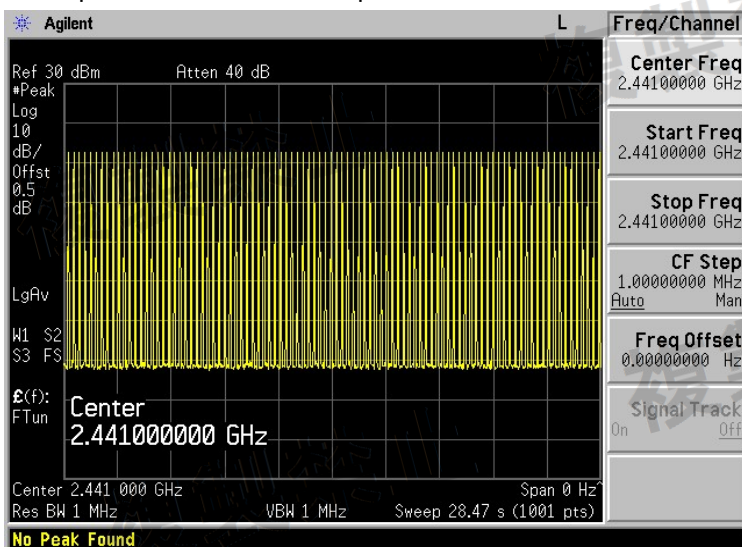
8.5 ホッピング周波数滞留時間 Time of occupancy hopping frequency

EDR

ch:Middle



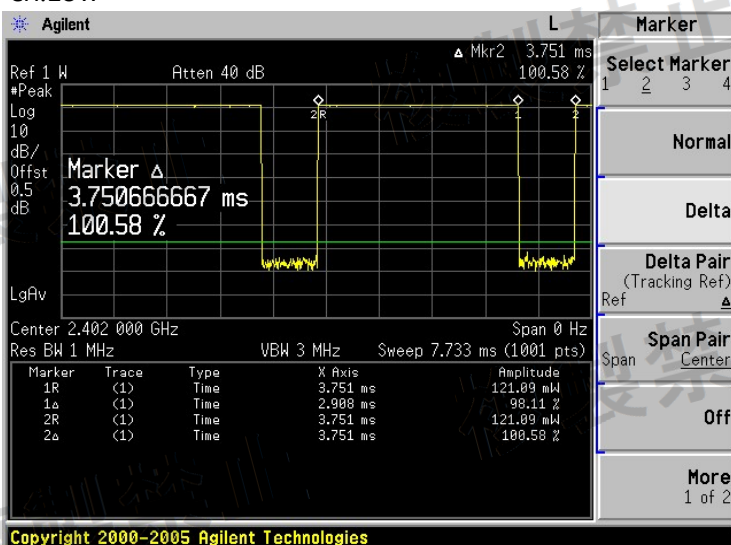
Sweep time = (0.4 sec x Spread rate)



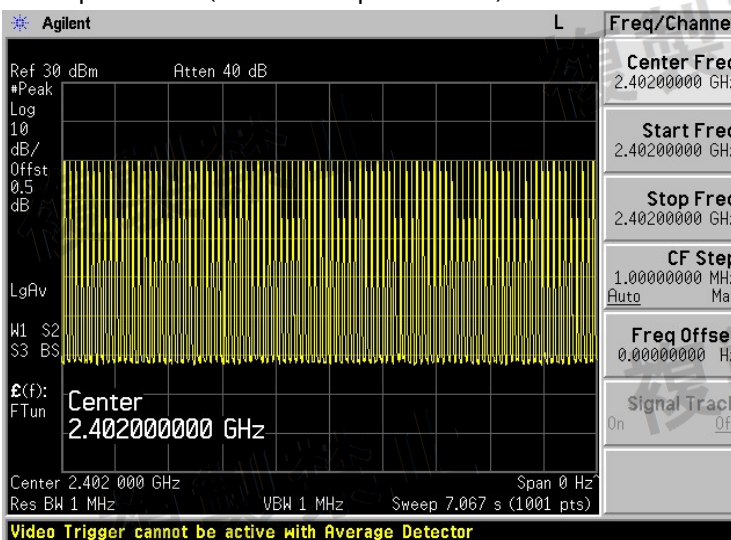
8.5 ホッピング周波数滞留時間 Time of occupancy hopping frequency

EDR AFH

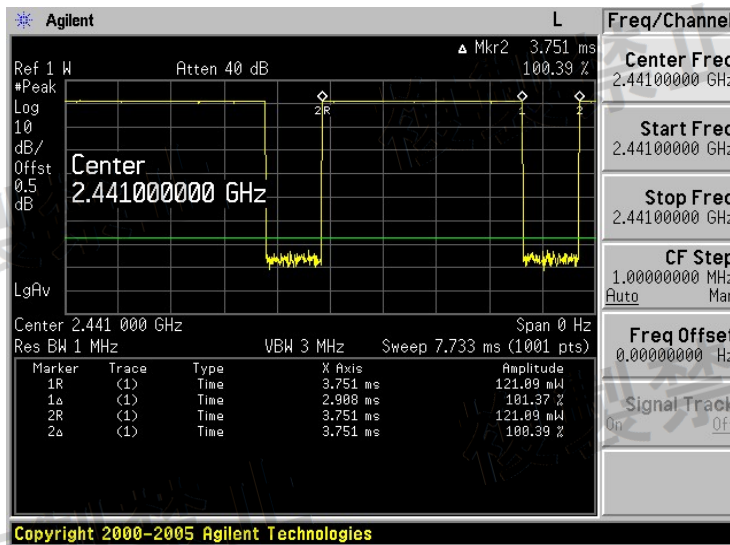
ch:Low



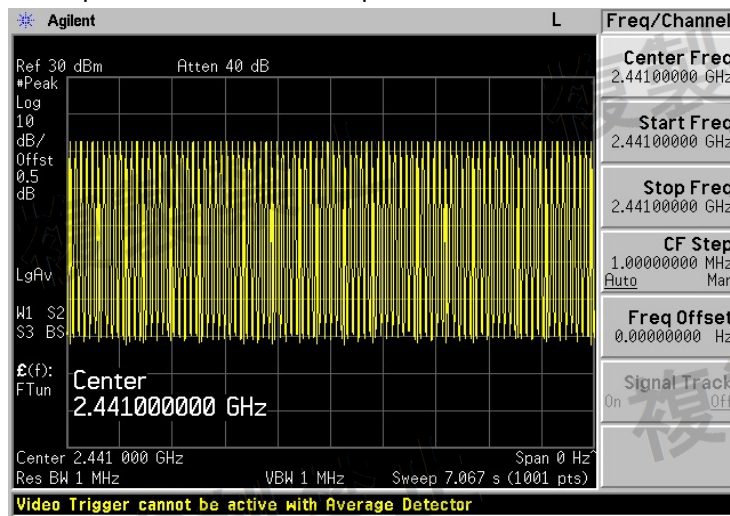
Sweep time = (0.4 sec x Spread rate)



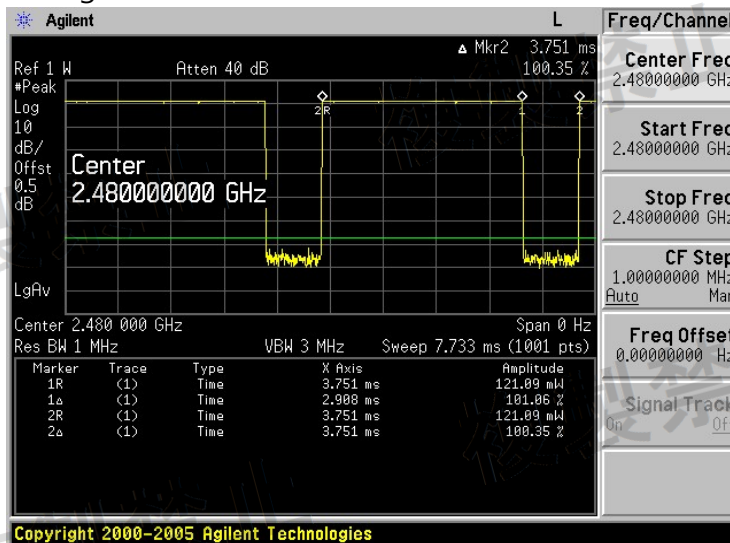
ch:Middle



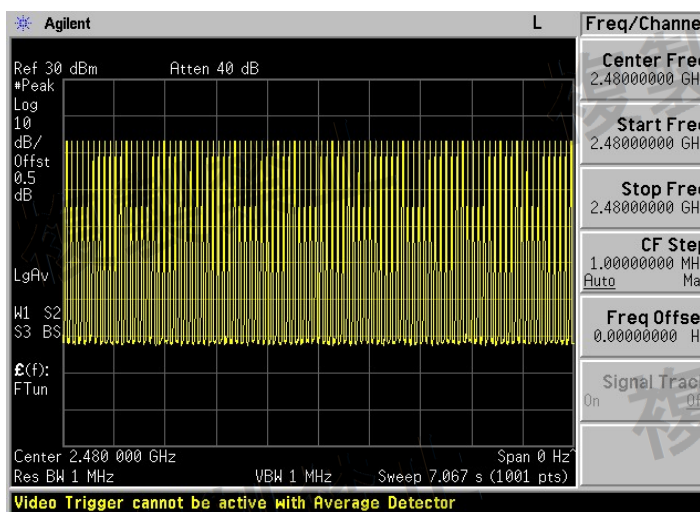
Sweep time = (0.4 sec x Spread rate)



ch:High



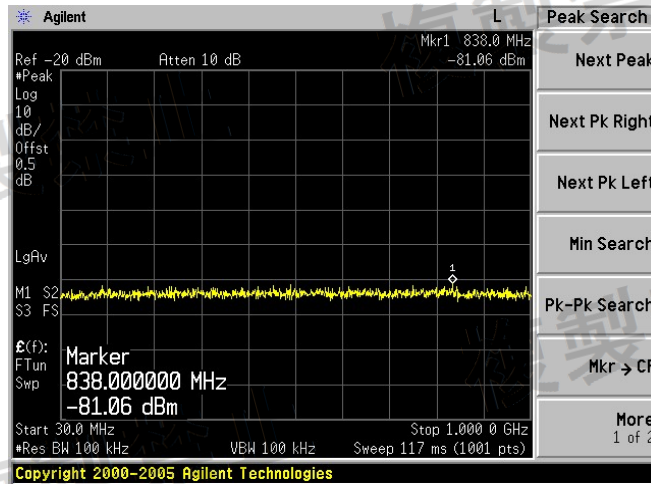
Sweep time = (0.4 sec x Spread rate)



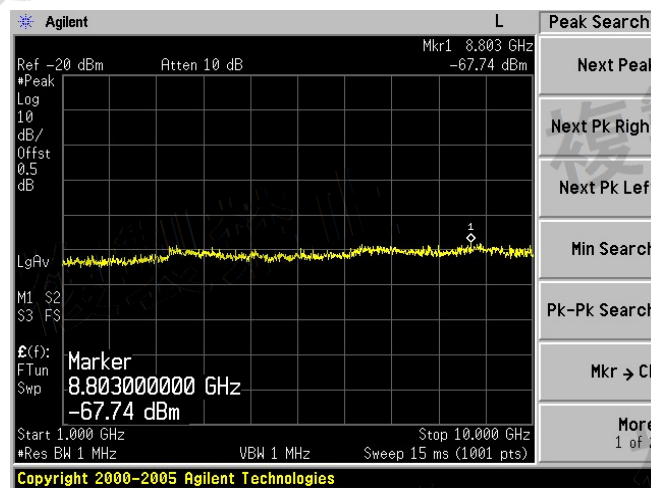
8.6 副次的に発する電波等の限度
Secondary emitted radio wave strength

BDR

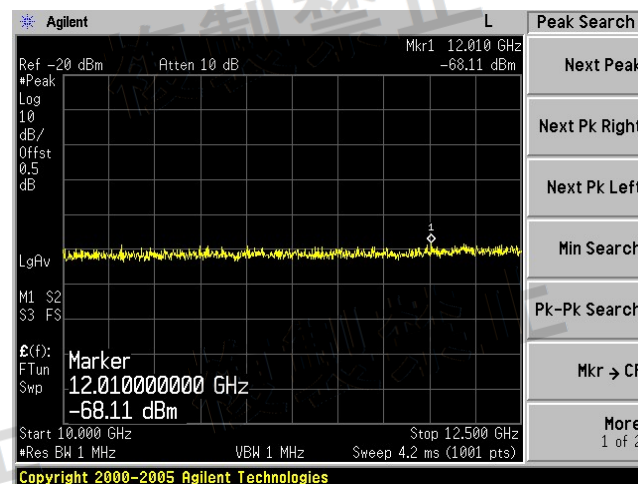
30MHz-1GHz



1-10GHz



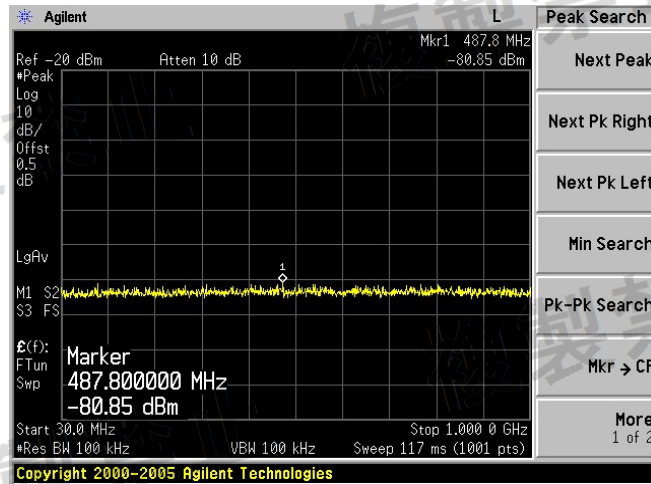
10-12.5GHz



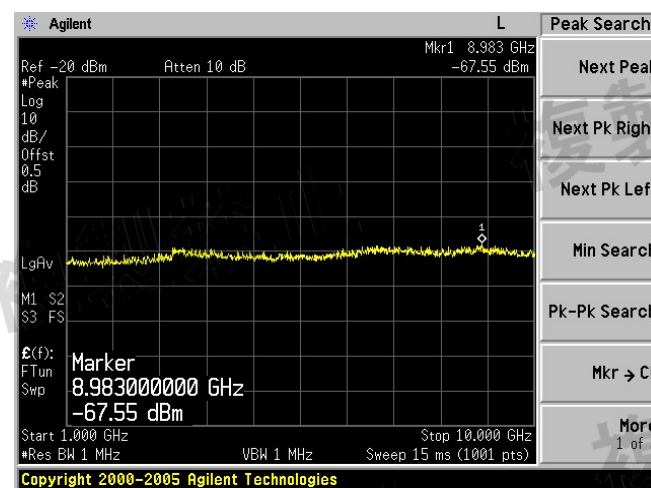
8.6 副次的に発する電波等の限度 Secondary emitted radio wave strength

EDR

30MHz-1GHz



1-10GHz



10-12.5GHz

