

#### 9.4. Test Results

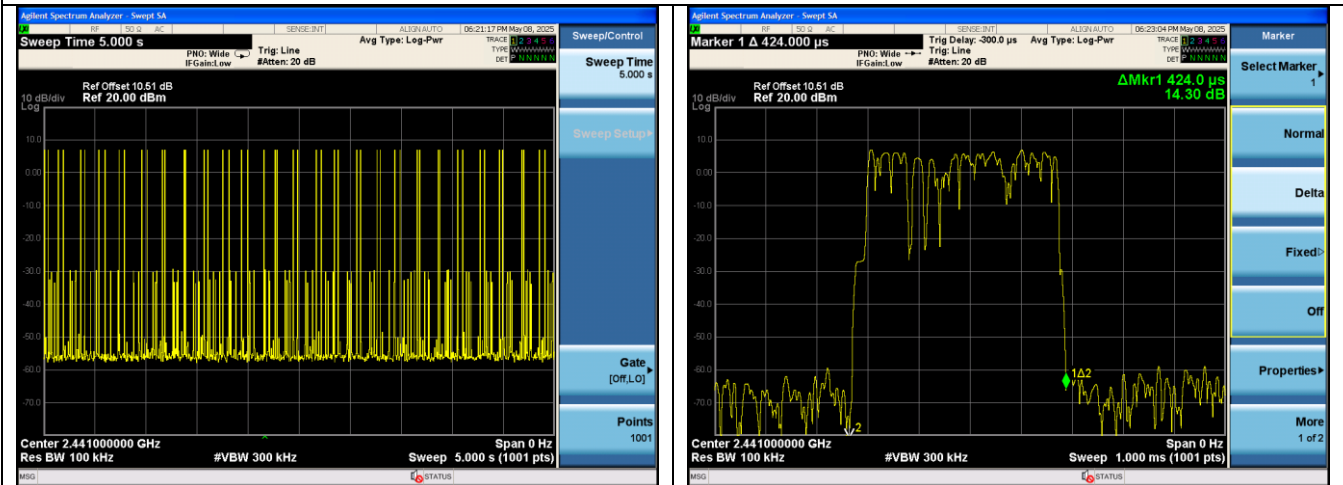
EUT: Pocket TrapMan		
M/N: PT3		
Test date: 2025-05-08	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Epoch	Test site: RF site	Temperature: 22.4±0.6°C

Mode		dwell time				Limit	Conclusion
GFSK	DH1	50	hops/5s*0.4s*79chanel*	0.424	ms =133.984ms	≦ 400ms	PASS
	DH3	20	hops/5s*0.4s*79chanel*	1.695	ms =214.248ms	≦ 400ms	PASS
	DH5	16	hops/5s*0.4s*79chanel*	2.935	ms =296.787ms	≦ 400ms	PASS
8-DPSK	3-DH1	50	hops/5s*0.4s*79chanel*	0.433	ms =136.828ms	≦ 400ms	PASS
	3-DH3	20	hops/5s*0.4s*79chanel*	1.692	ms =213.869ms	≦ 400ms	PASS
	3-DH5	14	hops/5s*0.4s*79chanel*	2.950	ms =261.016ms	≦ 400ms	PASS

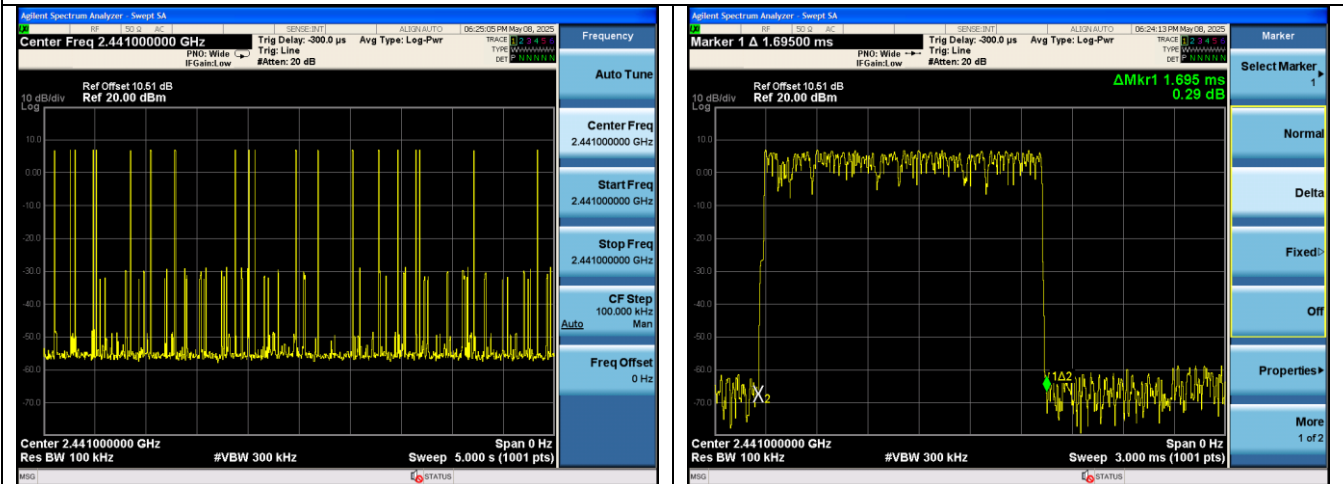
Note: All the lower levels were signaled from receiver and should not be considered in here.

## GFSK

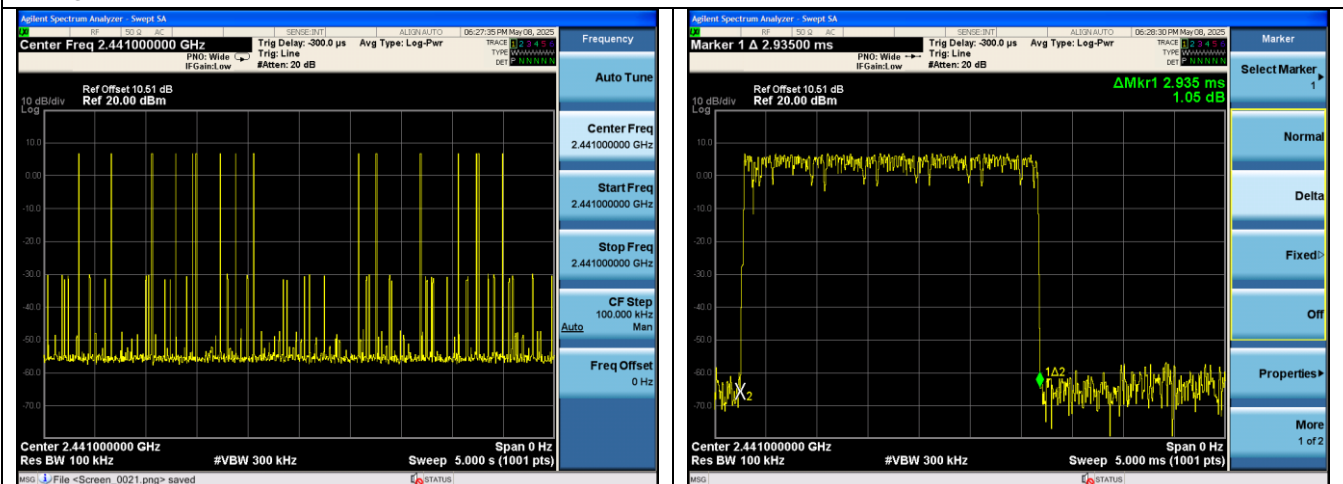
### DH 1



### DH 3

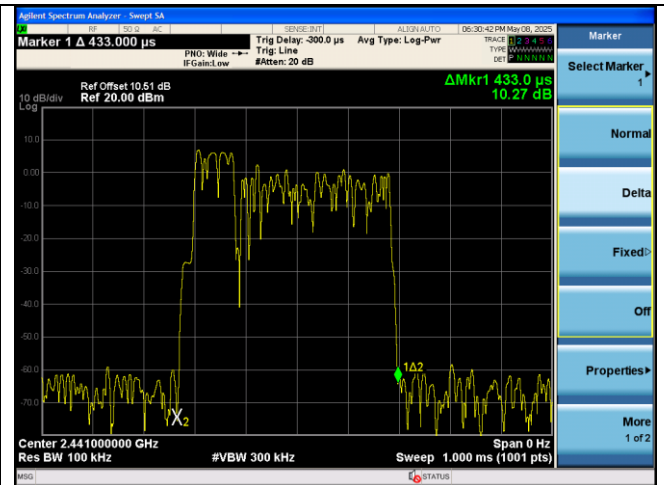
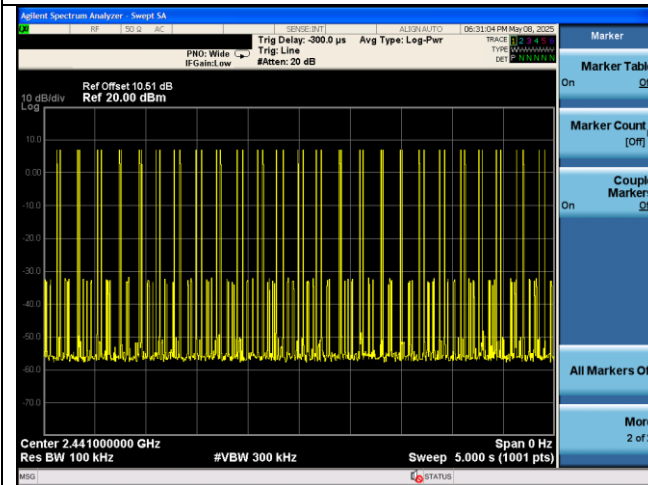


### DH 5

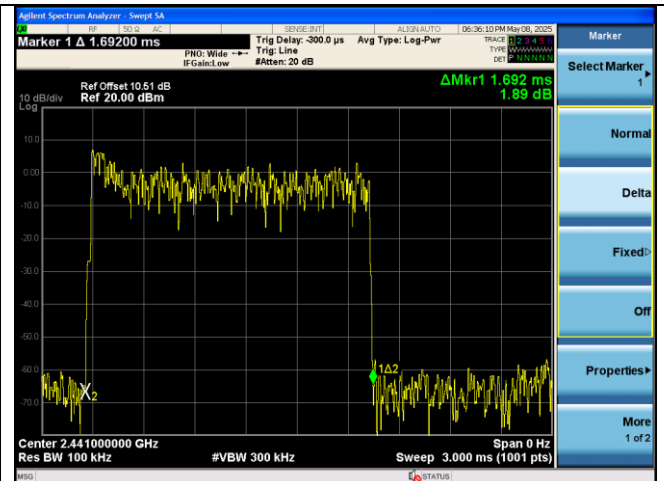
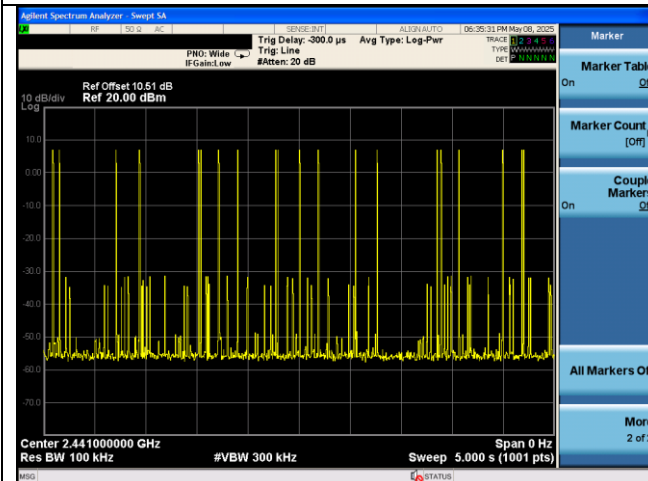


## 8-DPSK

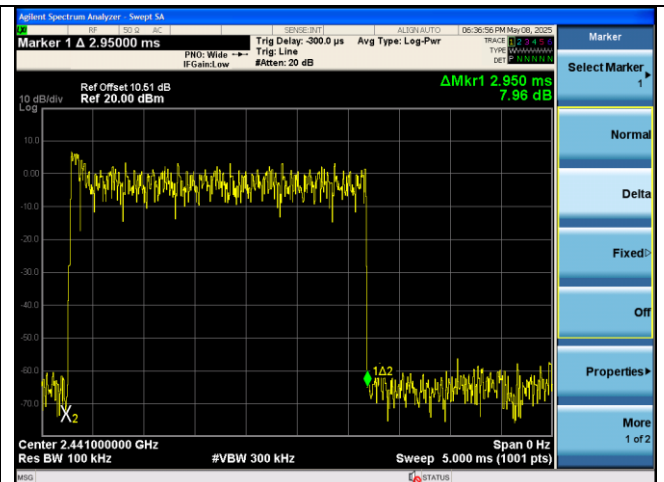
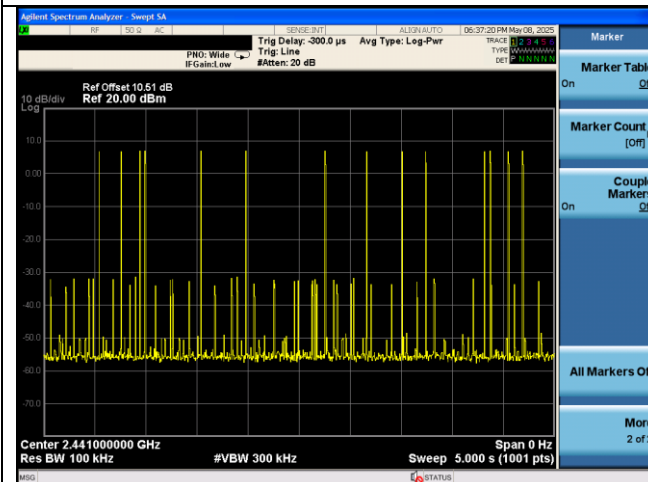
### 3DH 1



### 3DH 3



### 3DH 5



## 10. MAXIMUM PEAK OUTPUT POWER TEST

### 10.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Mar.10,25	1 Year
2.	Power Meter	Anritsu	ML2487A	6K00003262	Jun.19,24	1 Year
3.	Power Sensor	Anritsu	MA2491A	032516	Jun.19,24	1 Year
4.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3+190411	Sep.13,24	1 Year
5.	Attenuator(10dB)	eastsheep	2W-SMA-JK-6G-10dB	No. 4	Sep.15,24	1 Year

### 10.2. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts

### 10.3. Test Procedure

Use the test method described in ANSI C63.10 clause 7.8.5:

For Peak output power: Connected the EUT's Antenna port to PXA signal analyzer;

For Average power: Connected the EUT's Antenna port to Power sensor and power meter;

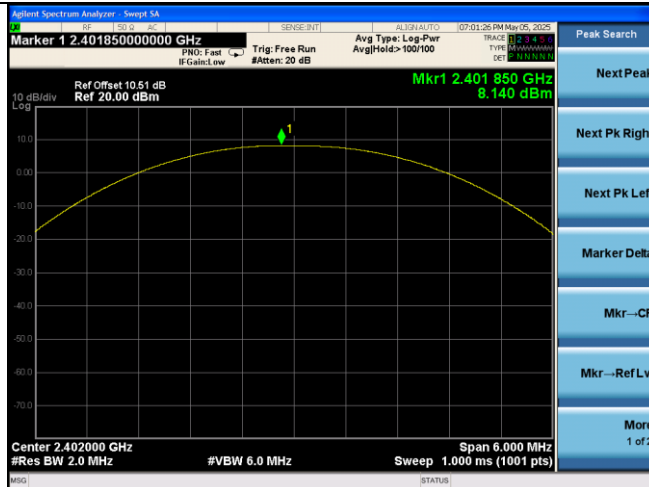
### 10.4. Test Results

EUT: Pocket TrapMan		
M/N: PT3		
Test date: 2025-05-05	Pressure: $102.4 \pm 1.0$ kpa	Humidity: $54.7 \pm 3.0\%$
Tested by: Epoch	Test Site: RF site	Temperature: $23.6 \pm 0.6^\circ\text{C}$

Test Mode	CH	Power Setting	Peak Output Power (dBm)	Limit (dBm)
GFSK	CH0	Default	8.140	21
	CH39	Default	7.549	
	CH78	Default	6.825	
8-DPSK	CH0	Default	9.399	21
	CH39	Default	8.861	
	CH78	Default	8.118	

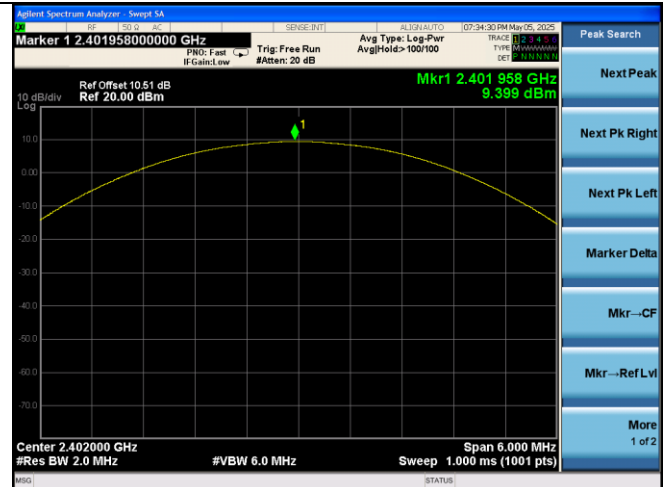
## GFSK

2402MHz

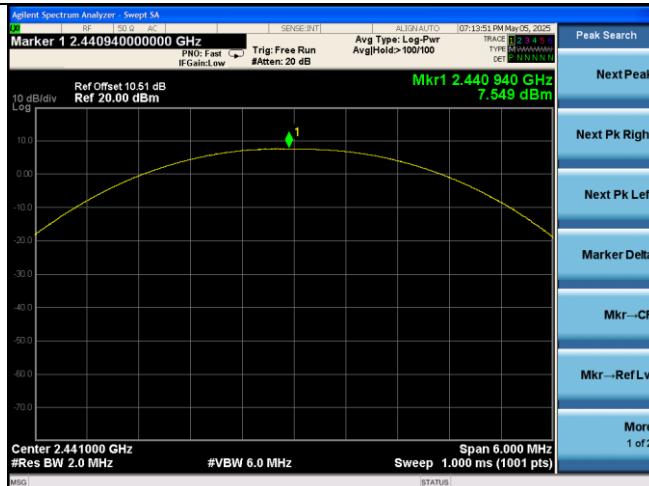


## 8-DPSK

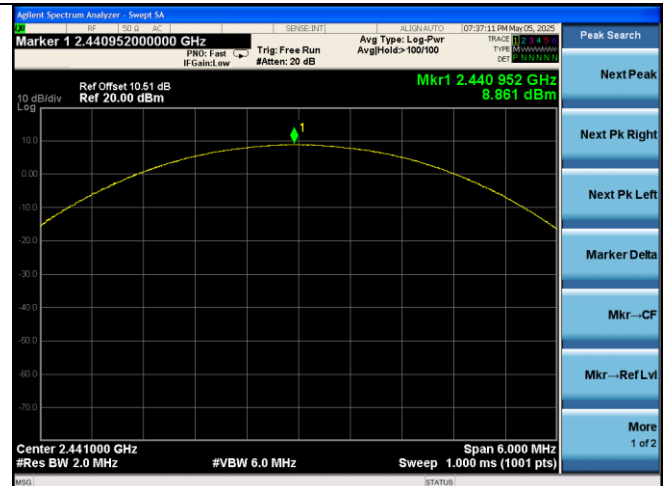
2402MHz



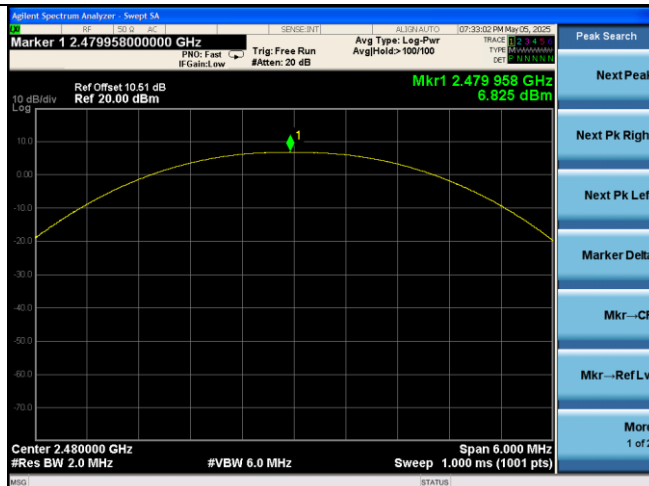
2441MHz



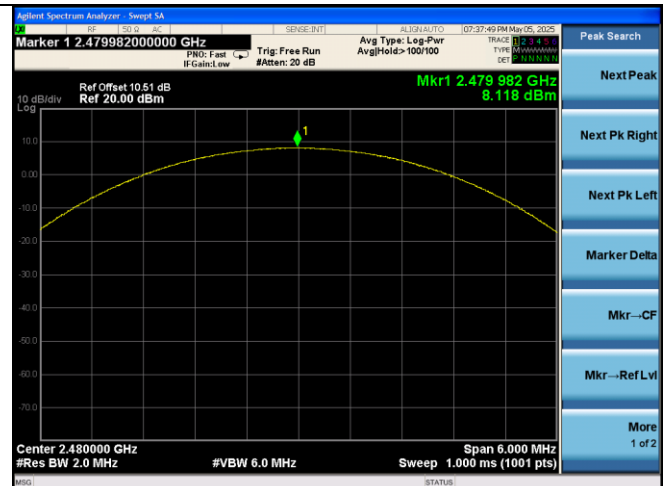
2441MHz



2480MHz



2480MHz



## 11.BAND EDGE COMPLIANCE TEST

### 11.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3m Chamber(NSA)	AUDIX	N/A	N/A	Aug.11,22	3Year
2.	3m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.07,24	1 Year
4.	Amplifier	HP	8447D	2944A11159	Mar.10,25	1 Year
5.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3+190411	Sep.13,24	1 Year
6.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
7.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Sep.08,24	1 Year

Note: N/A means Not applicable.

### 11.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

### 11.3.Test Produce

Use the test method descried in ANSI C63.10 clause 7.8.6:

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

For emissions above two bandwidths away from the band-edge use below produce:

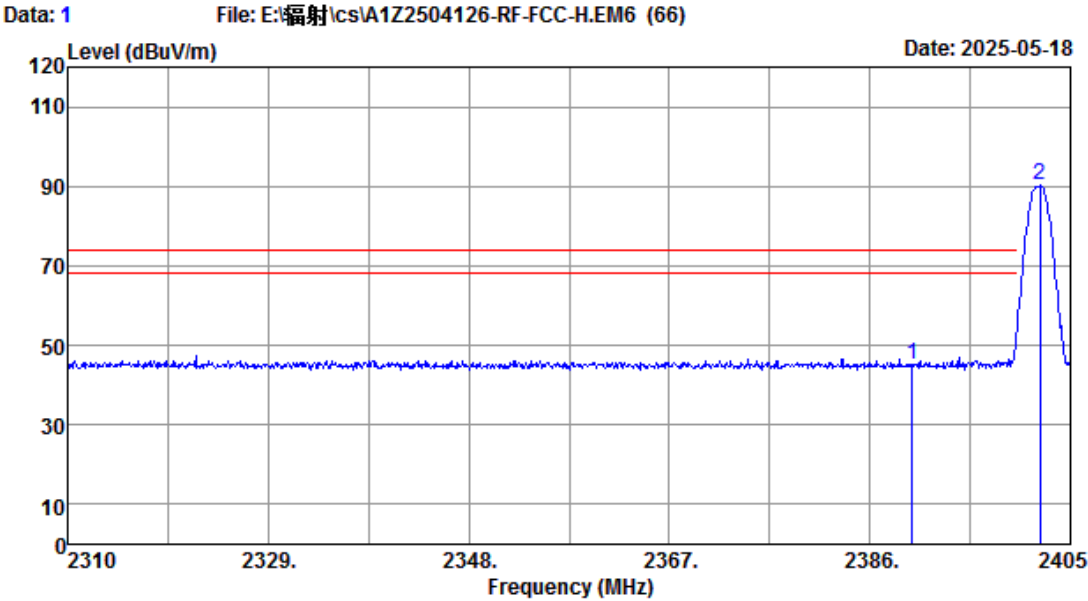
1. The EUT is placed on a insulating material (up to 12mm thick) worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
  - (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

#### 11.4.Test Results

Pass (The testing data was attached in the next pages.)

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



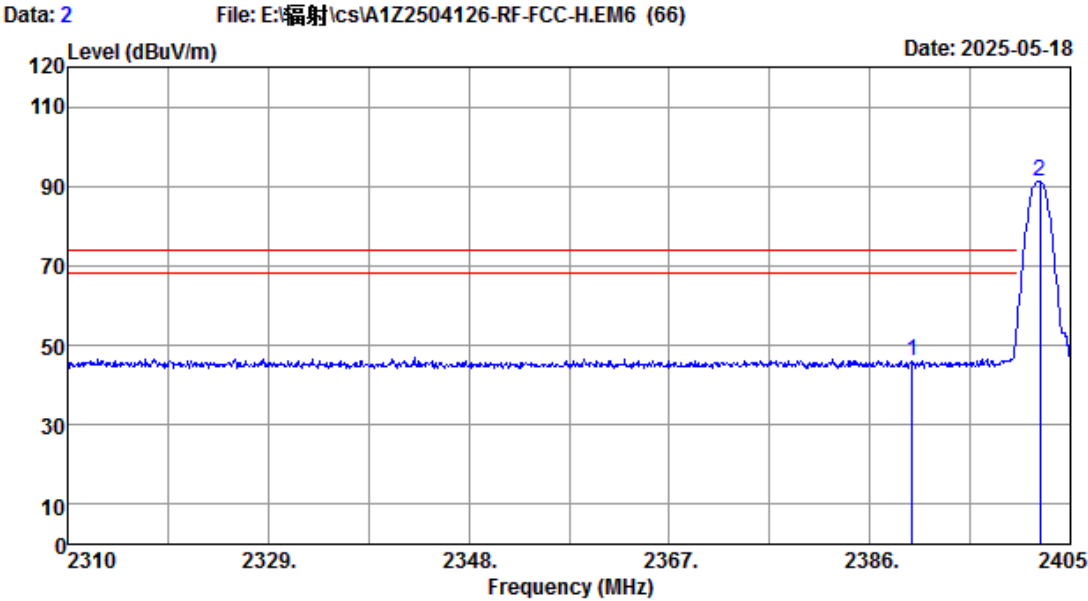
Site no.	: RF Chamber	Data no.	: 1
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 22.3°C/50%		
Test Mode	: GFSK 2402MHz TX Mode		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	62.57	45.06	74.00	28.94	Peak
2	2402.150	27.60	4.58	49.64	107.60	90.14	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
-Amp Factor

2. The emission levels that are 20dB below the official  
limit are not reported.



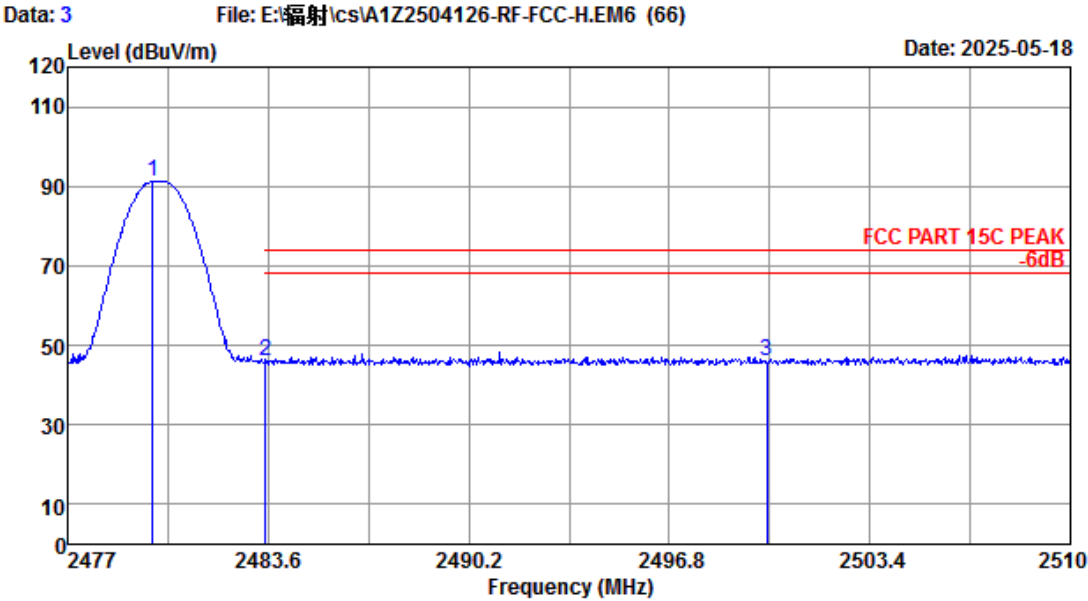


Site no.	: RF Chamber	Data no.	: 2
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 22.3°C/50%		
Test Mode	: GFSK 2402MHz TX Mode		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	63.68	46.17	74.00	27.83	Peak
2	2402.150	27.60	4.58	49.64	108.54	91.08	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
-Amp Factor

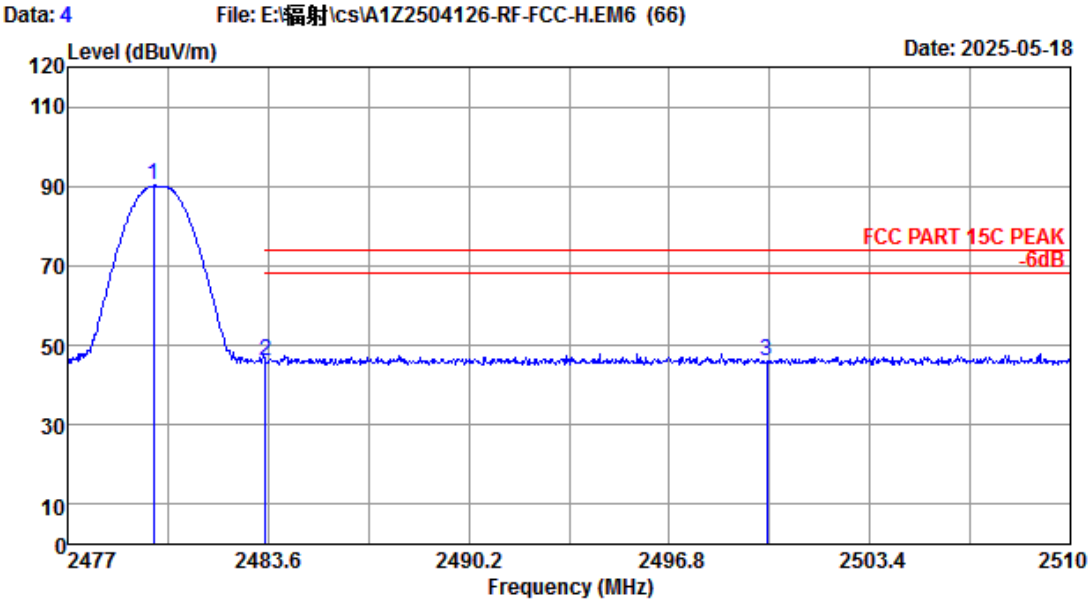
2. The emission levels that are 20dB below the official  
limit are not reported.



Site no. : RF Chamber Data no. : 3  
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK Engineer : Epoch  
 Env. / Ins. : 22.3°C/50%  
 Test Mode : GFSK 2480MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.805	27.84	4.68	49.57	108.37	91.32	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	62.96	45.95	74.00	28.05	Peak
3	2500.000	28.00	4.70	49.55	62.93	46.08	74.00	27.92	Peak

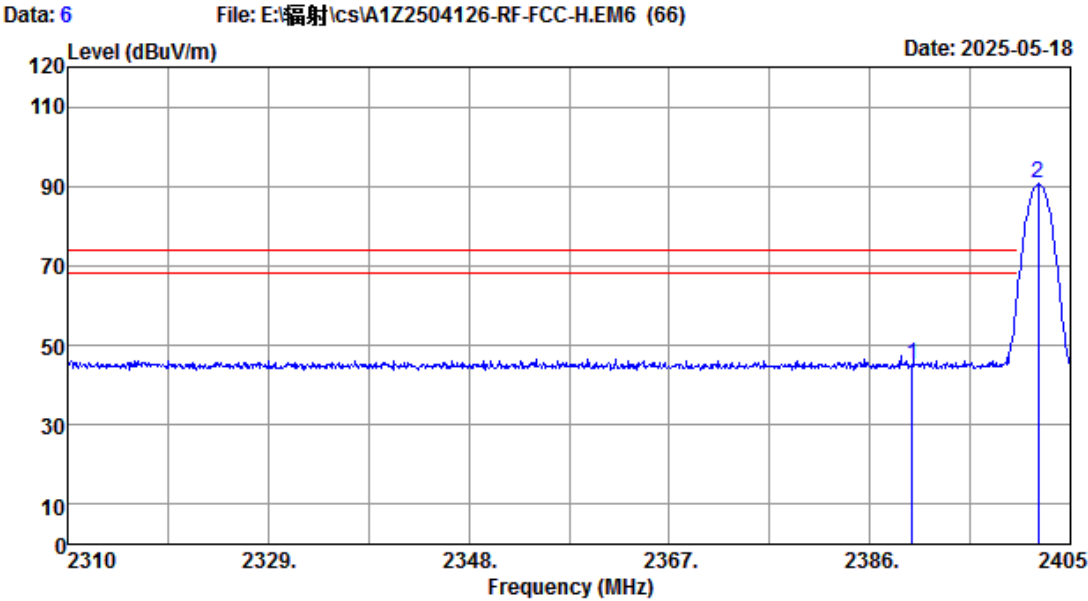
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : RF Chamber Data no. : 4  
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK Engineer : Epoch  
 Env. / Ins. : 22.3°C/50%  
 Test Mode : GFSK 2480MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.838	27.84	4.68	49.57	107.19	90.14	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	63.03	46.02	74.00	27.98	Peak
3	2500.000	28.00	4.70	49.55	62.77	45.92	74.00	28.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.

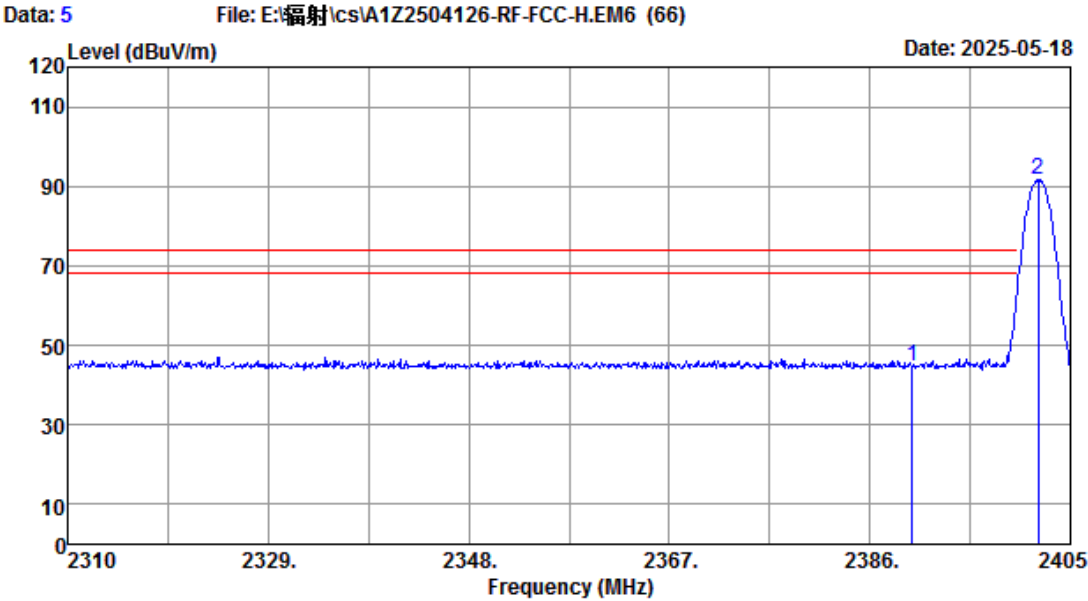


Site no.	: RF Chamber	Data no.	: 6
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 22.3°C/50%		
Test Mode	: 8-DPSK 2402MHz TX Mode		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	62.85	45.34	74.00	28.66	Peak
2	2401.960	27.60	4.58	49.64	108.16	90.70	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
-Amp Factor

2. The emission levels that are 20dB below the official  
limit are not reported.

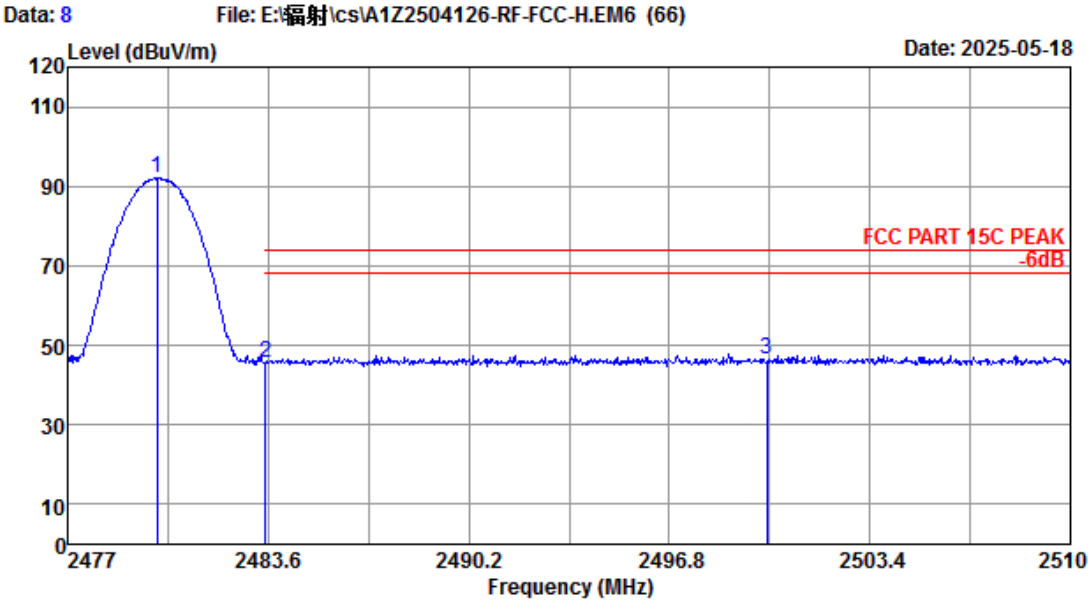


Site no.	: RF Chamber	Data no.	: 5
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 22.3°C/50%		
Test Mode	: 8-DPSK 2402MHz TX Mode		

No.	Freq. (MHz)	Ant. Cable AMP			Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	62.31	44.80	74.00	29.20	Peak
2	2401.960	27.60	4.58	49.64	109.31	91.85	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
-Amp Factor

2. The emission levels that are 20dB below the official  
limit are not reported.

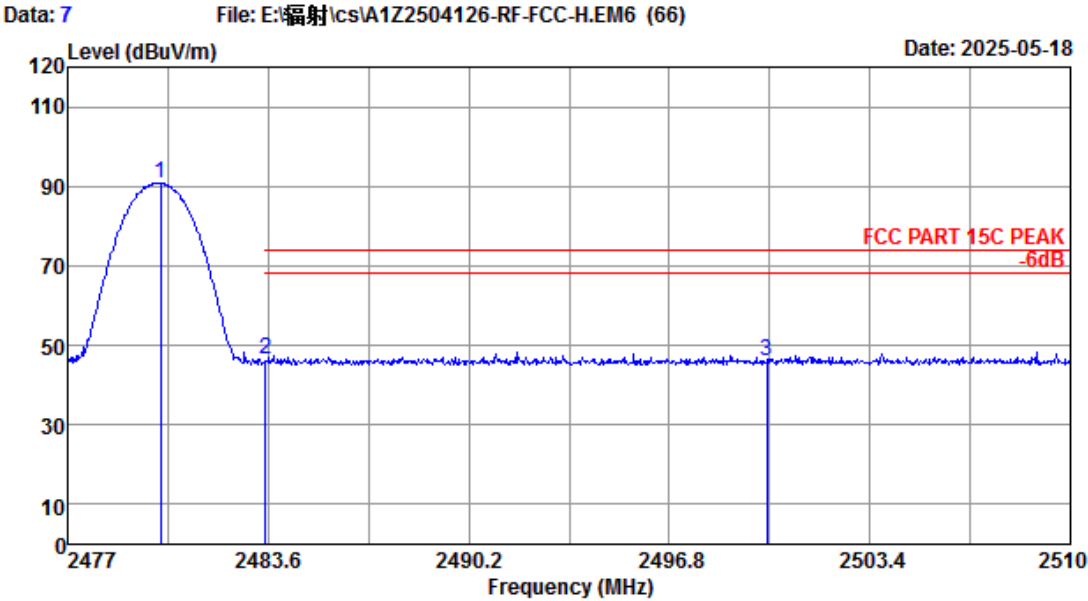


Site no.	: RF Chamber	Data no.	: 8
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 22.3°C/50%		
Test Mode	: 8-DPSK 2480MHz TX Mode		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.937	27.84	4.68	49.57	109.28	92.23	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	62.55	45.54	74.00	28.46	Peak
3	2500.000	28.00	4.70	49.55	63.55	46.70	74.00	27.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
-Amp Factor

2. The emission levels that are 20dB below the official  
limit are not reported.



Site no. : RF Chamber Data no. : 7  
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK Engineer : Epoch  
 Env. / Ins. : 22.3°C/50%  
 Test Mode : 8-DPSK 2480MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.069	27.84	4.68	49.57	108.02	90.97	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	63.32	46.31	74.00	27.69	Peak
3	2500.000	28.00	4.70	49.55	62.85	46.00	74.00	28.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading  
 -Amp Factor  
 2. The emission levels that are 20dB below the official  
 limit are not reported.

## 12. ANTENNA REQUIREMENT

### 12.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 12.2. Antenna Connected Construction

The antennas used for this product are PCB antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3.5dBi max.



### **13.DEVIATION TO TEST SPECIFICATIONS**

[NONE]

..... **THE END** .....