



## CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China  
Tel: +86-755- 27521059 Fax: +86-755- 27521011 Http://www.sz-ctc.org.cn

# TEST REPORT

Report No. ....: CTC20210085E11  
FCC ID.....: 2APPZ- A32I  
Applicant.....: **Fanvil Technology Co., Ltd**  
Address.....: 10/F Block A, Dualshine Global Science Innovation Center,  
Honglang North 2nd Road, Bao'an District, Shenzhen, China  
Manufacturer.....: Fanvil Technology Co., Ltd  
Address.....: 10/F Block A, Dualshine Global Science Innovation Center,  
Honglang North 2nd Road, Bao'an District, Shenzhen, China  
Product Name.....: IP Phone  
Trade Mark.....: Fanvil **Fanvil**  
Model/Type reference.....: A32i  
Listed Model(s) .....: A32, A32V  
Standard.....: **FCC CFR Title 47 Part 15 Subpart C Section 15.247**  
Date of receipt of test sample....: Feb. 1, 2021  
Date of testing.....: Feb. 3, 2021 to Mar. 22, 2021  
Date of issue.....: Mar. 23, 2021  
Result.....: **PASS**

Compiled by:  
(Printed name+signature) Lucy Lan   
Supervised by:  
(Printed name+signature) Miller Ma   
Approved by:  
(Printed name+signature) Walter Chen 

Testing Laboratory Name..... **CTC Laboratories, Inc.**

Address .....: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,  
Longhua District, Shenzhen, Guangdong, China

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# 1. TEST SUMMARY

## 1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

## 1.2. Report version

Revised No.	Date of issue	Description
01	Mar. 23, 2021	Original



### 1.3. Test Description

FCC Part 15 Subpart C (15.247)			
Test Item	Standard Section	Result	Test Engineer
	FCC		
Antenna Requirement	15.203	Pass	Lucy Lan
Conducted Emission	15.207	Pass	Jon Huang
Restricted Bands	15.205	Pass	Lucy Lan
Hopping Channel Separation	15.247(a)(1)	Pass	Lucy Lan
Dwell Time	15.247(a)(iii)	Pass	Lucy Lan
Peak Output Power	15.247(b)(1)	Pass	Lucy Lan
Number of Hopping Frequency	15.247(a)(iii)	Pass	Lucy Lan
Band Edge Emissions	15.247(d)	Pass	Lucy Lan
Radiated Spurious Emission	15.247(d)&15.209	Pass	Lucy Lan
99% Occupied Bandwidth & 20dB Bandwidth	15.247(a)	Pass	Lucy Lan

Note: The measurement uncertainty is not included in the test result.



## 1.4. Test Facility

### CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

### Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

#### FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

## 1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

**Note (1):** This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa



## 2. GENERAL INFORMATION

### 2.1. Client Information

Applicant:	Fanvil Technology Co., Ltd
Address:	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Manufacturer:	Fanvil Technology Co., Ltd
Address:	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China

### 2.2. General Description of EUT

Product Name:	IP Phone
Trade Mark:	Fanvil
Model/Type reference:	A32i
Listed Model(s):	A32, A32V
Model Difference:	A32i has one more gooseneck MIC than A32, and A32V has one more built-in camera than A32. A32i and A32V were selected to test, the test results covered other models.
Power supply:	5Vdc, 2A or 48Vdc, 0.3A (POE)
Hardware version:	V1.0
Software version:	0.0.1.57
<b>Bluetooth 5.0+EDR</b>	
Modulation:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	FPC Antenna
Antenna gain:	3.7dBi



## 2.3. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

Channel	Frequency (MHz)
<b>00</b>	<b>2402</b>
01	2403
:	:
38	2440
<b>39</b>	<b>2441</b>
40	2442
:	:
77	2479
<b>78</b>	<b>2480</b>

Note: The display in grey were the channel selected for testing.

Test mode

For RF test items:  The engineering test program was provided and enabled to make EUT continuous transmit
For AC power line conducted emissions:  The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.
For Radiated spurious emissions test item:  The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



## 2.4. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021
11	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
12	300328 v2.2.2 test system	TONSCEND	v2.6	/	/

Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX102	DA1580	Dec. 25, 2021
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021

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16	RF Connection Cable	Chengdu E-Microwave	---	---	Dec. 25, 2021
17	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 25, 2021
18	Attenuator	Chengdu E-Microwave	EMCAAX-10R NZ-3	---	Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	Rohde & Schwarz	ENV216	101112	Dec. 25, 2021
2	LISN	Rohde & Schwarz	ENV216	101113	Dec. 25, 2021
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021

Note:1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

### 3. TEST ITEM AND RESULTS

#### 3.1. Conducted Emission

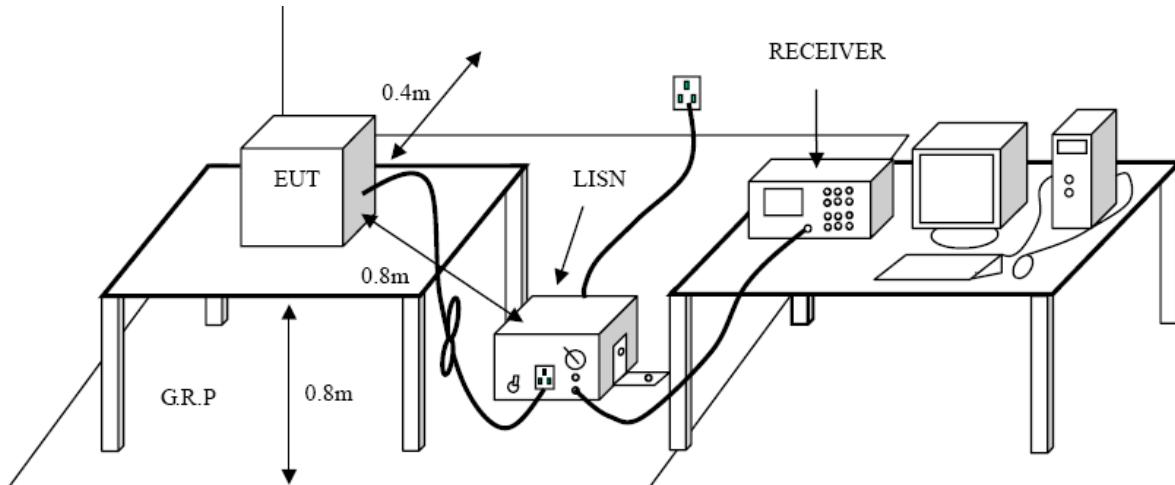
##### Limit

##### FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

##### Test Configuration

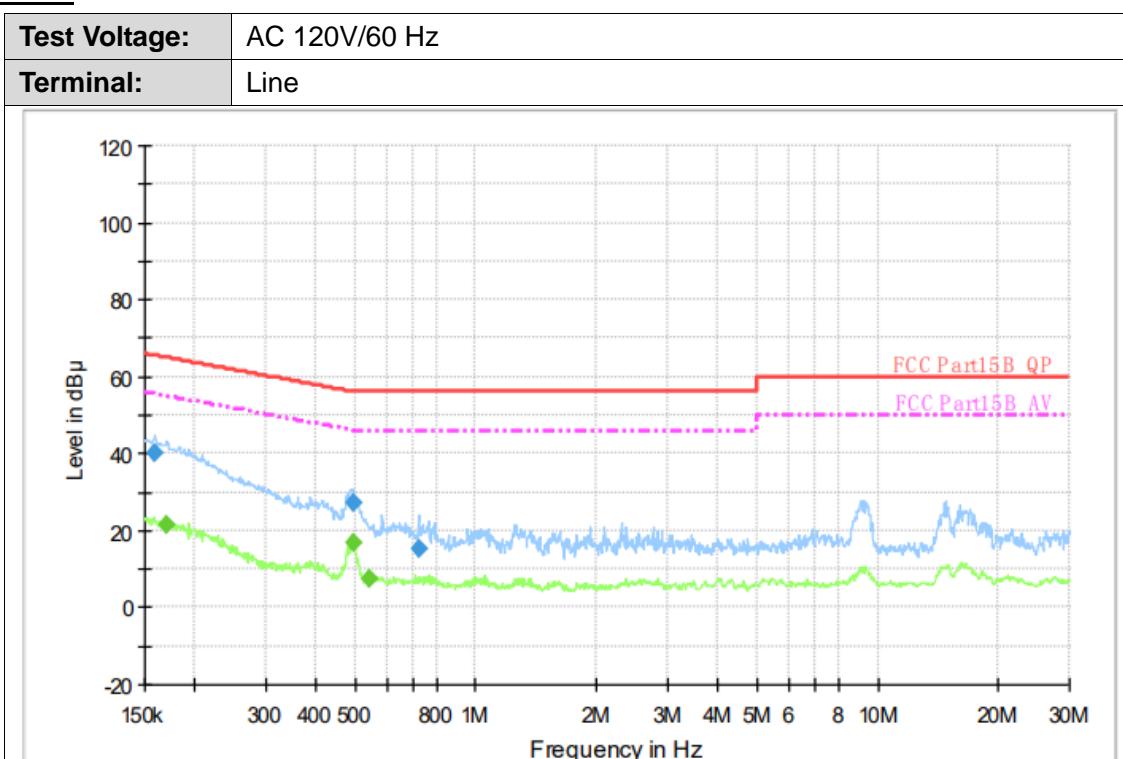


##### Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

##### Test Mode

Please refer to the clause 2.3.

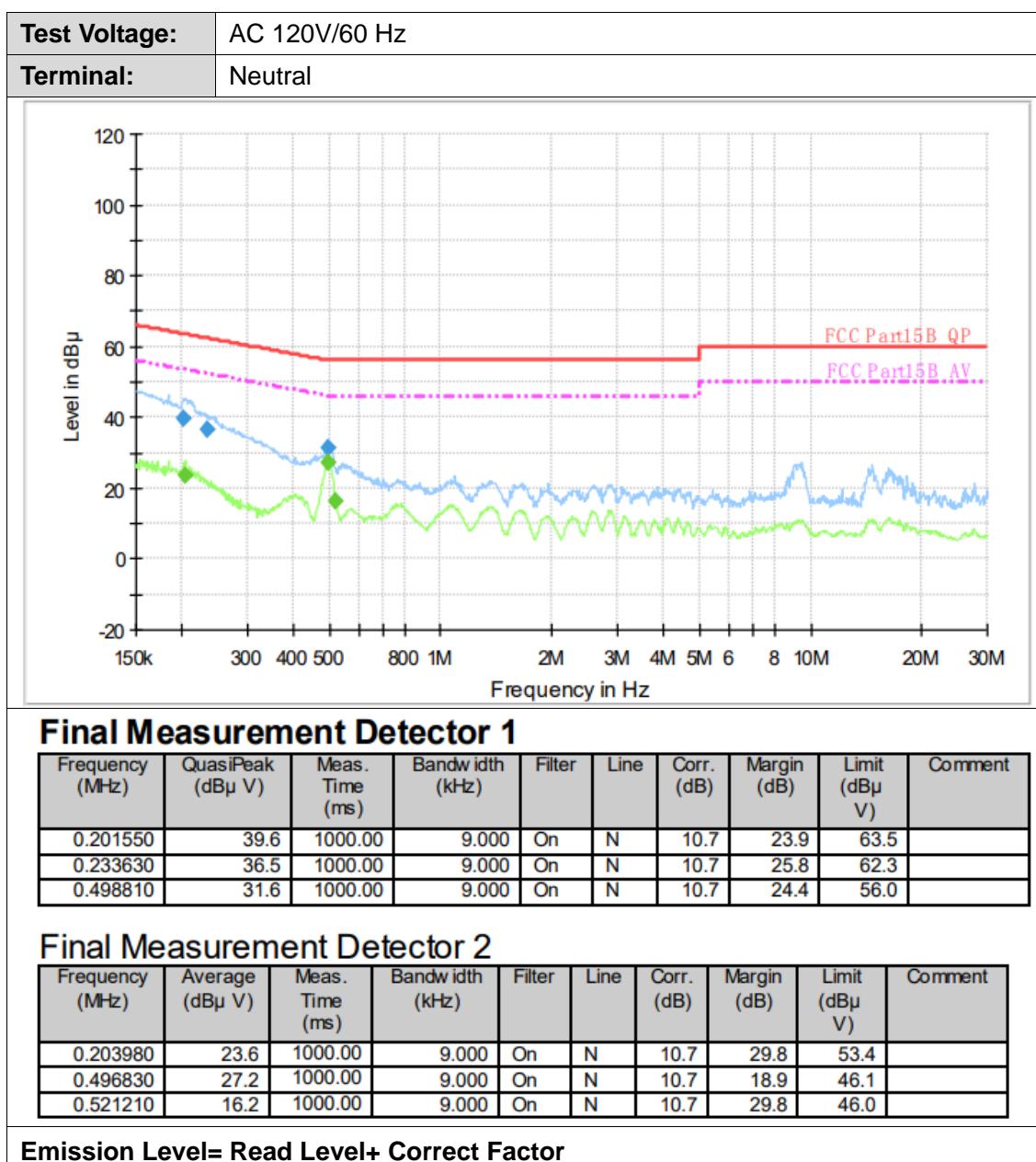
**Test Results****Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.158620	40.2	1000.00	9.000	On	L1	10.4	25.3	65.5	
0.494850	27.4	1000.00	9.000	On	L1	10.4	28.7	56.1	
0.720180	15.0	1000.00	9.000	On	L1	10.4	41.0	56.0	

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
0.170440	21.3	1000.00	9.000	On	L1	10.4	33.6	54.9	
0.496830	16.7	1000.00	9.000	On	L1	10.4	29.4	46.1	
0.544600	7.5	1000.00	9.000	On	L1	10.4	38.5	46.0	

**Emission Level= Read Level+ Correct Factor**



## 3.2. Radiated Emission

### Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.209

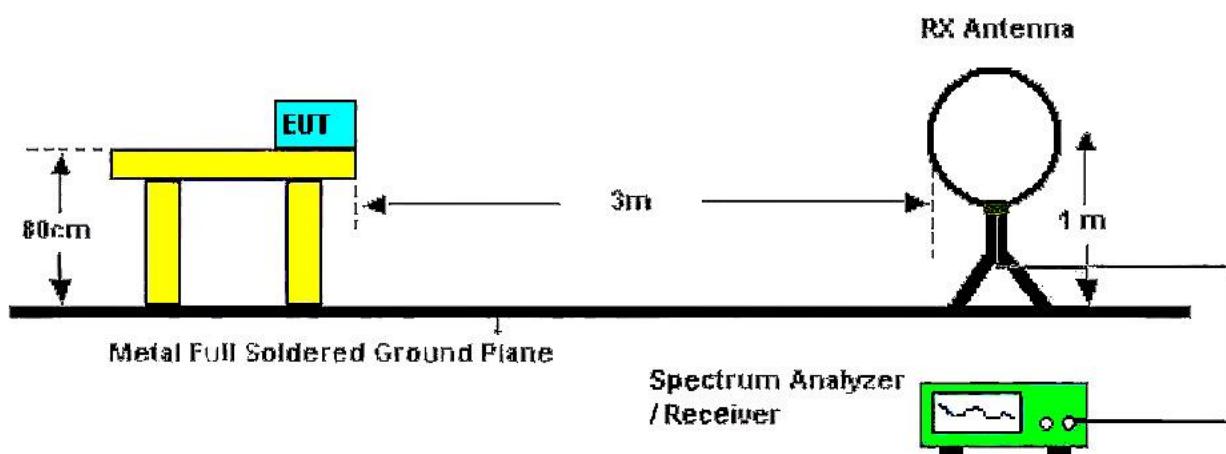
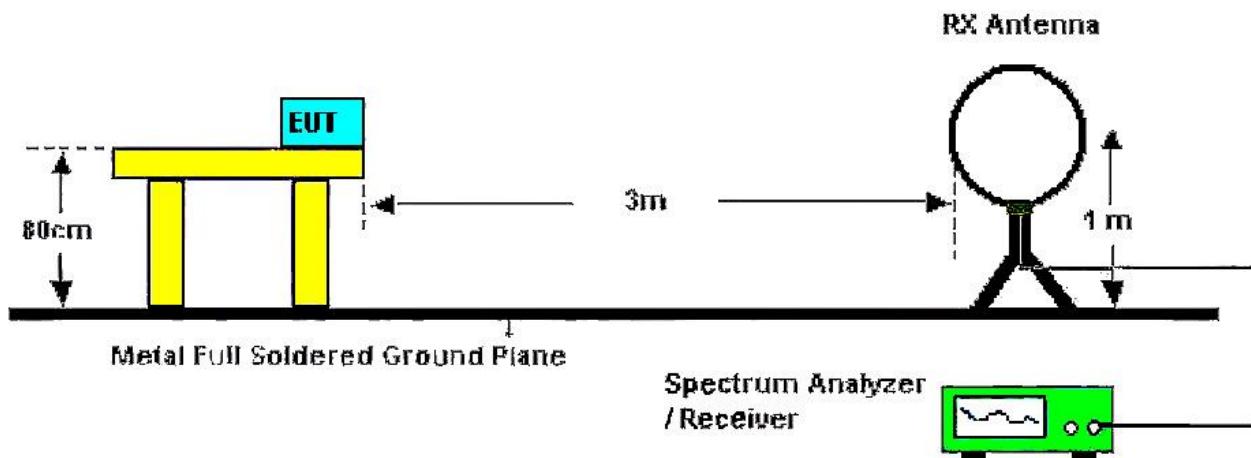
Frequency	Limit (dBuV/m @ 3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

**Conducted Emission limit:** The highest point of the operating frequency waveform down 20dB

### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

### Test Configuration



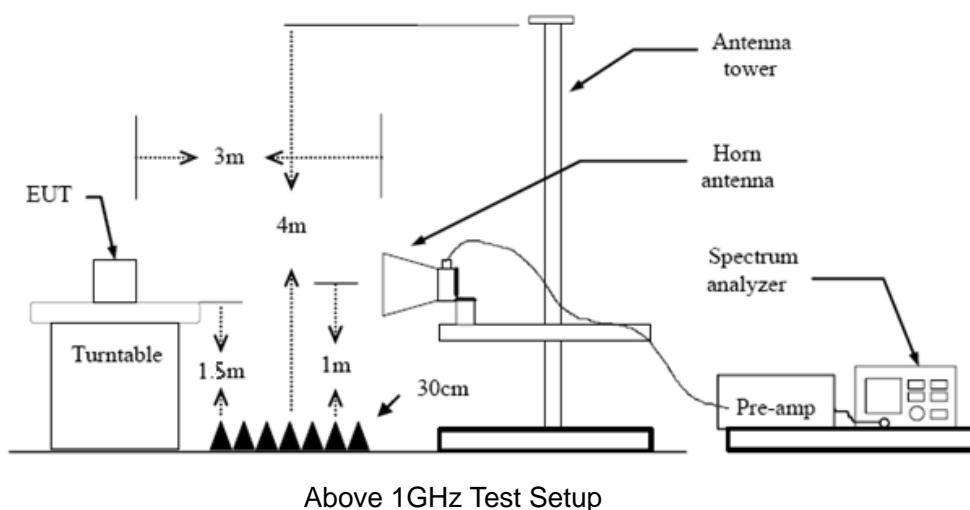
Below 30MHz Test Setup

Below 1000MHz Test Setup

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### Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz:  
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;  
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) From 1 GHz to 10<sup>th</sup> harmonic:  
RBW=1MHz, VBW=3MHz Peak detector for Peak value.  
RBW=1MHz, VBW=3MHz RMS detector for Average value.

### Test Mode

Please refer to the clause 2.3.

### Test Result

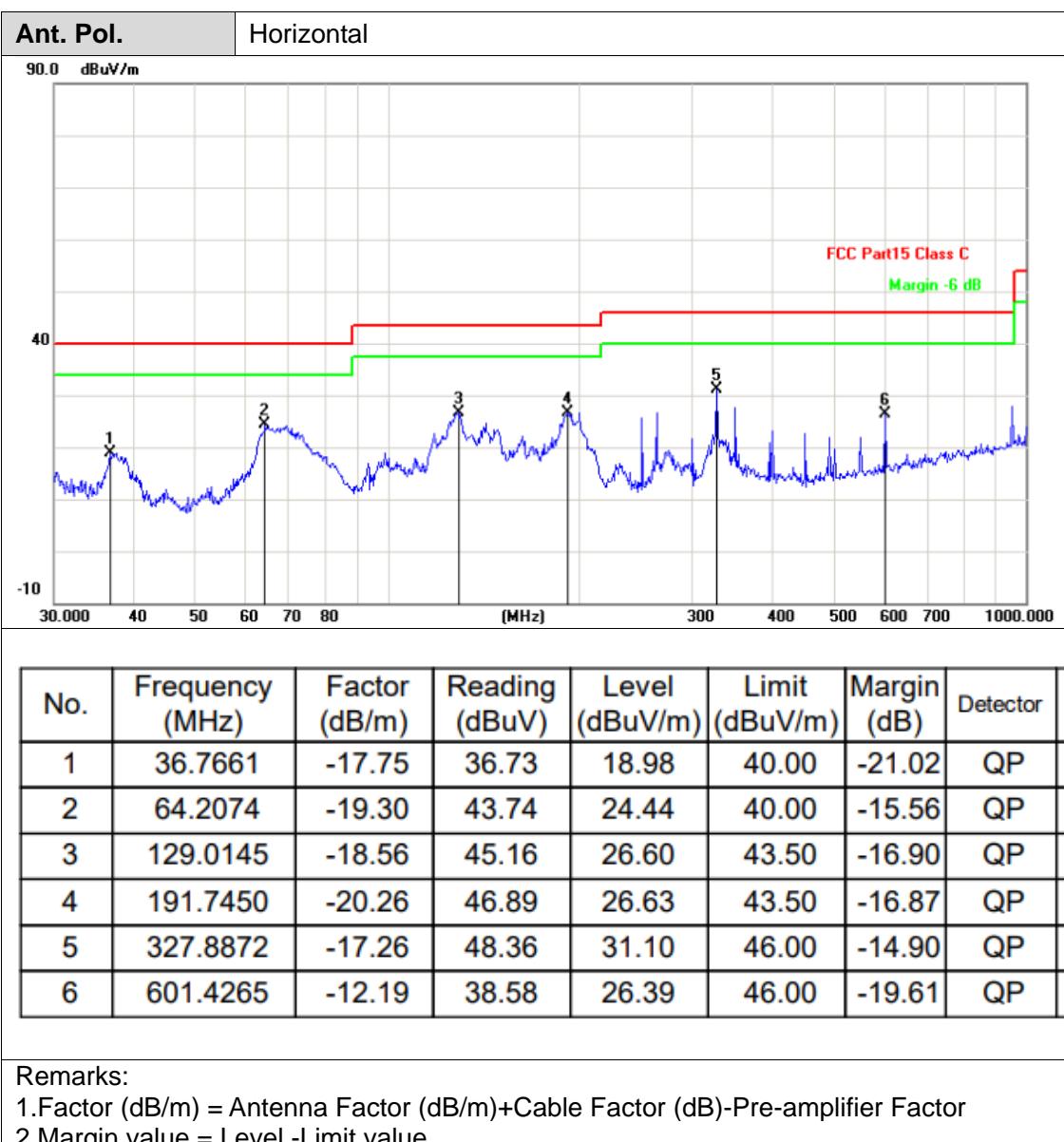
#### **9 KHz~30 MHz**

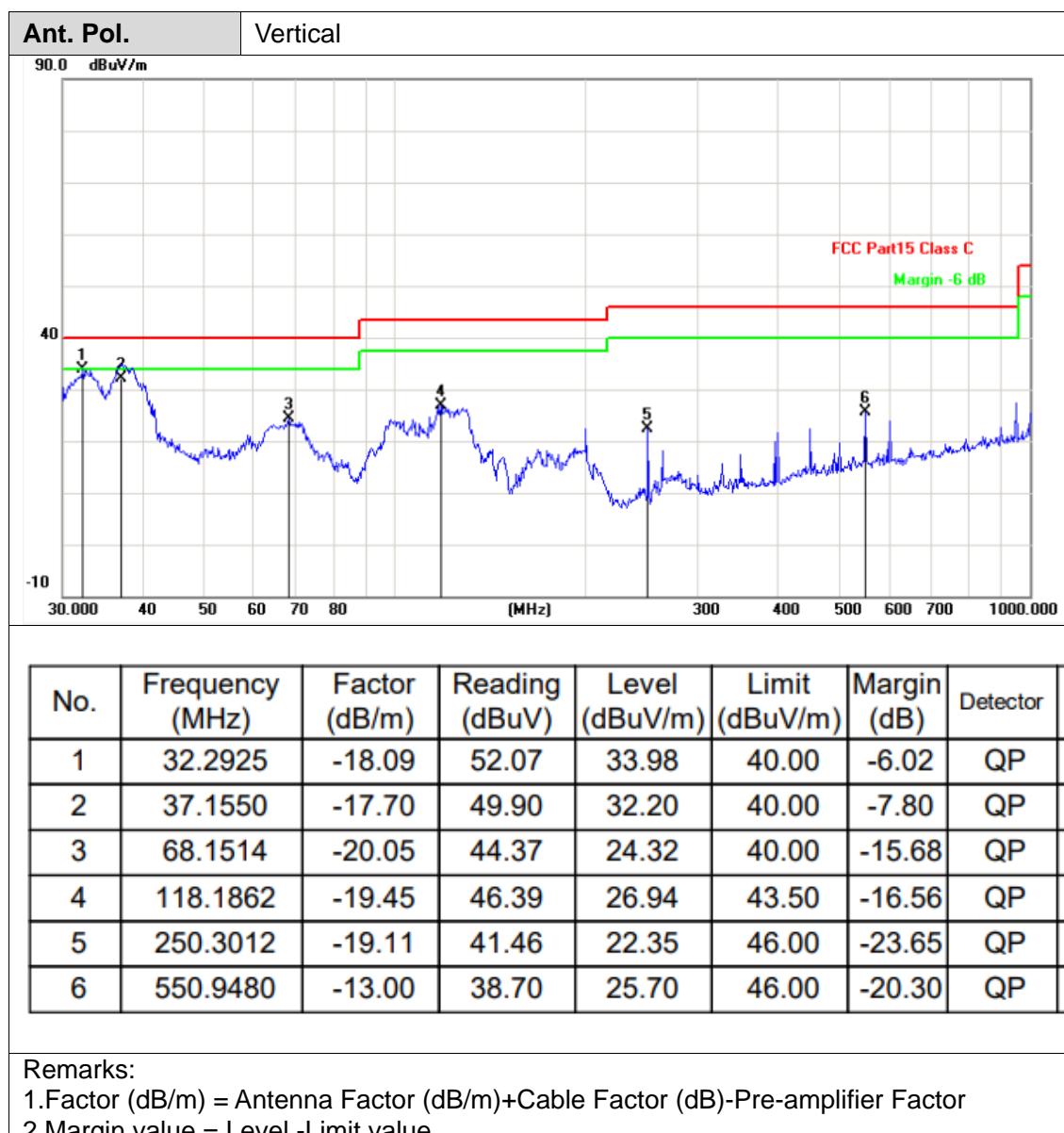
From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



30MHz-1GHz



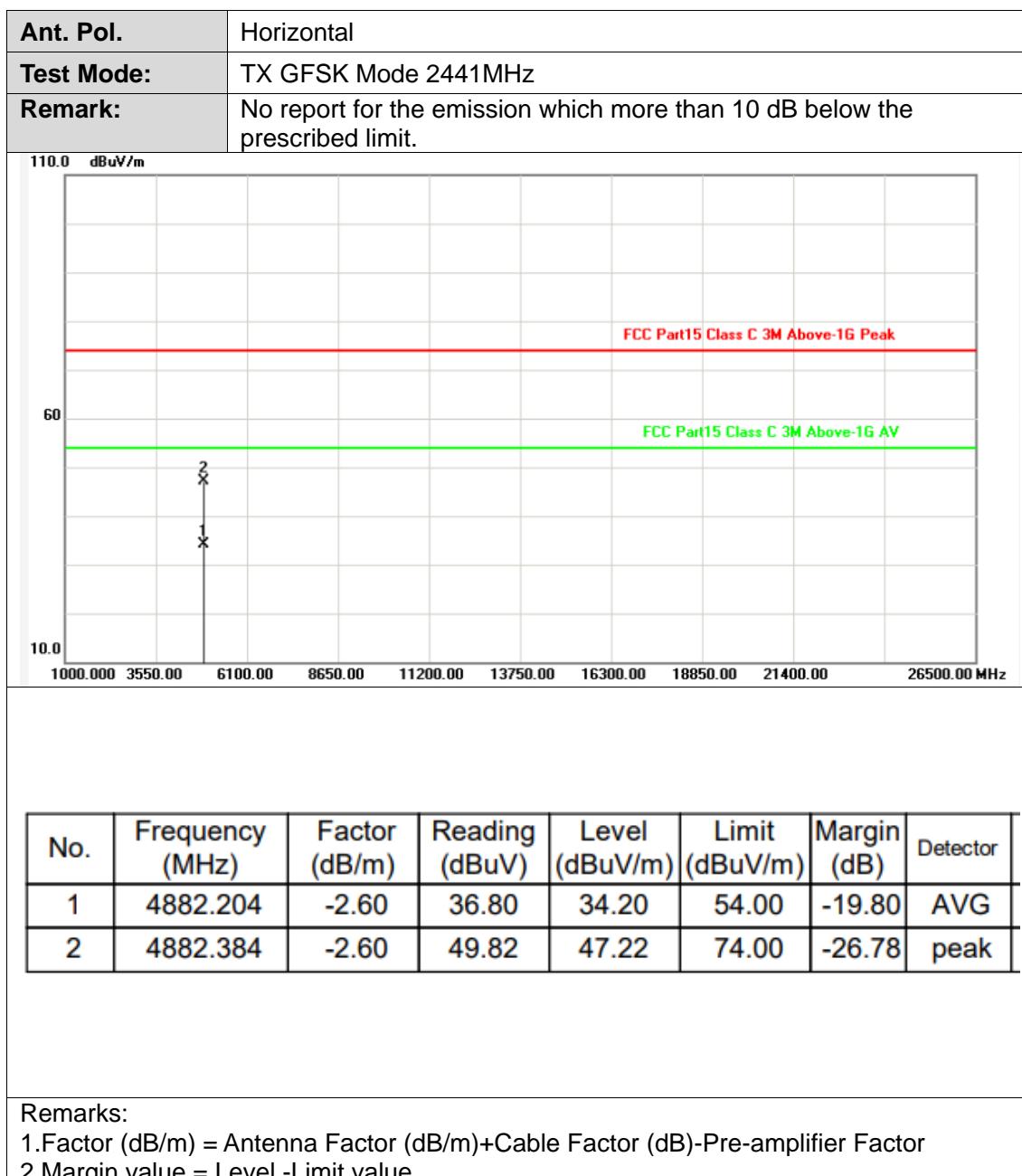


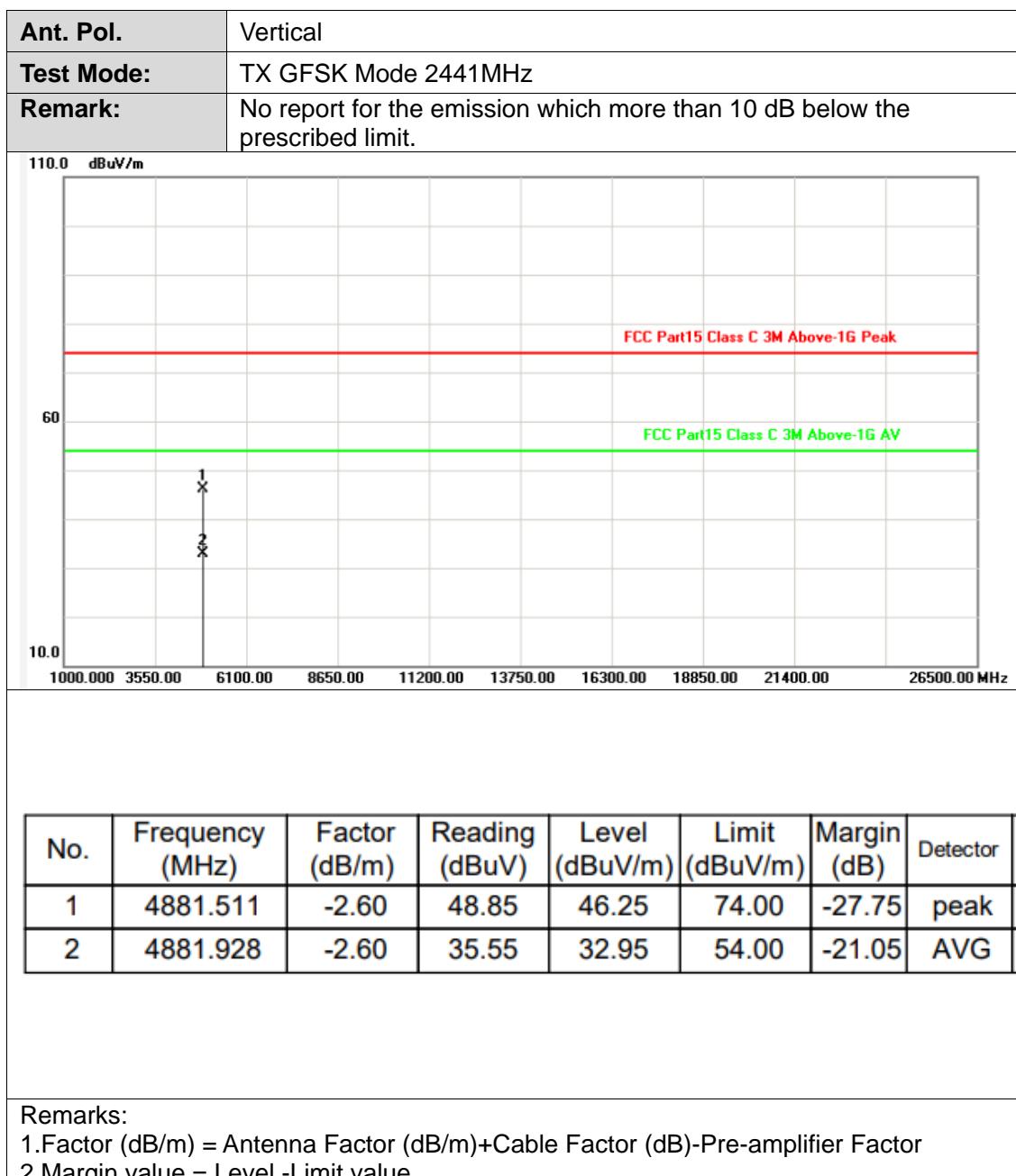


Above 1GHz

Ant. Pol.	Horizontal																														
Test Mode:	TX GFSK Mode 2402MHz																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>4803.937</td><td>-2.82</td><td>37.42</td><td>34.60</td><td>54.00</td><td>-19.40</td><td>AVG</td></tr><tr><td>2</td><td>4804.135</td><td>-2.82</td><td>50.24</td><td>47.42</td><td>74.00</td><td>-26.58</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	4803.937	-2.82	37.42	34.60	54.00	-19.40	AVG	2	4804.135	-2.82	50.24	47.42	74.00	-26.58	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4803.937	-2.82	37.42	34.60	54.00	-19.40	AVG																								
2	4804.135	-2.82	50.24	47.42	74.00	-26.58	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value</p>																															

<b>Ant. Pol.</b>	Vertical																														
<b>Test Mode:</b>	TX GFSK Mode 2402MHz																														
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>The plot shows a graph of dBuV/m versus MHz. The Y-axis ranges from 10.0 to 110.0 dBuV/m with major grid lines every 10 units. The X-axis ranges from 1000.000 to 26500.00 MHz with major grid lines every 3550.00 MHz. A red horizontal line at approximately 70 dBuV/m is labeled "FCC Part15 Class C 3M Above-1G Peak". A green horizontal line at approximately 54 dBuV/m is labeled "FCC Part15 Class C 3M Above-1G AV". A vertical double-headed arrow on the left side of the plot is labeled "2" above "1" below, indicating a 10 dB margin between the peak and average limits.</p>																															
<table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Factor (dB/m)</th> <th>Reading (dBuV)</th> <th>Level (dBuV/m)</th> <th>Limit (dBuV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4804.120</td> <td>-2.82</td> <td>36.08</td> <td>33.26</td> <td>54.00</td> <td>-20.74</td> <td>AVG</td> </tr> <tr> <td>2</td> <td>4804.819</td> <td>-2.82</td> <td>49.88</td> <td>47.06</td> <td>74.00</td> <td>-26.94</td> <td>peak</td> </tr> </tbody> </table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	4804.120	-2.82	36.08	33.26	54.00	-20.74	AVG	2	4804.819	-2.82	49.88	47.06	74.00	-26.94	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4804.120	-2.82	36.08	33.26	54.00	-20.74	AVG																								
2	4804.819	-2.82	49.88	47.06	74.00	-26.94	peak																								
<b>Remarks:</b> 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2. Margin value = Level -Limit value																															







Ant. Pol.	Horizontal																														
Test Mode:	TX GFSK Mode 2480MHz																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>110.0 dBuV/m</p> <p>FCC Part15 Class C 3M Above-1G Peak</p> <p>FCC Part15 Class C 3M Above-1G AV</p> <p>10.0</p> <p>20.0</p> <p>30.0</p> <p>1000.000 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 MHz</p>																															
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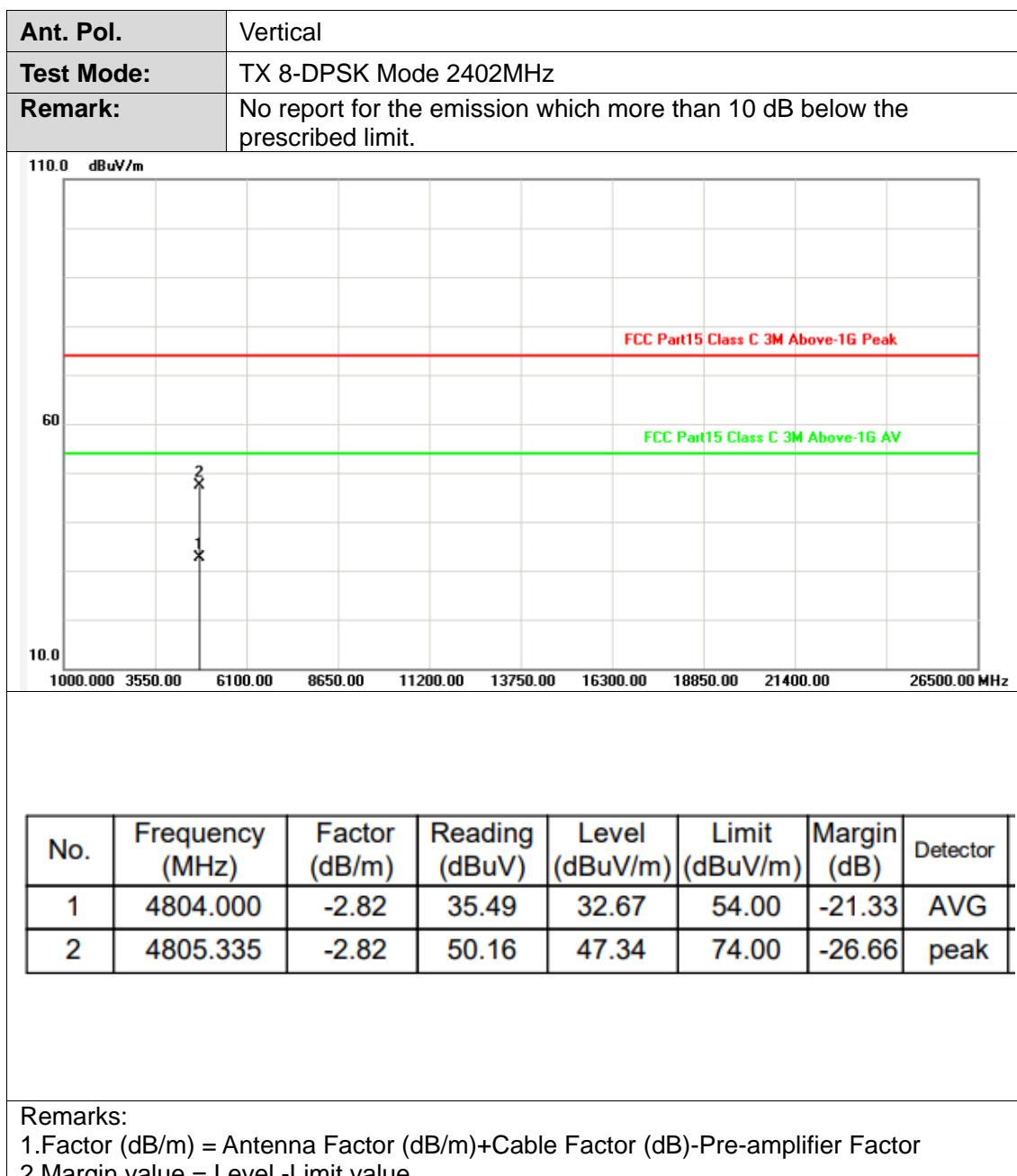
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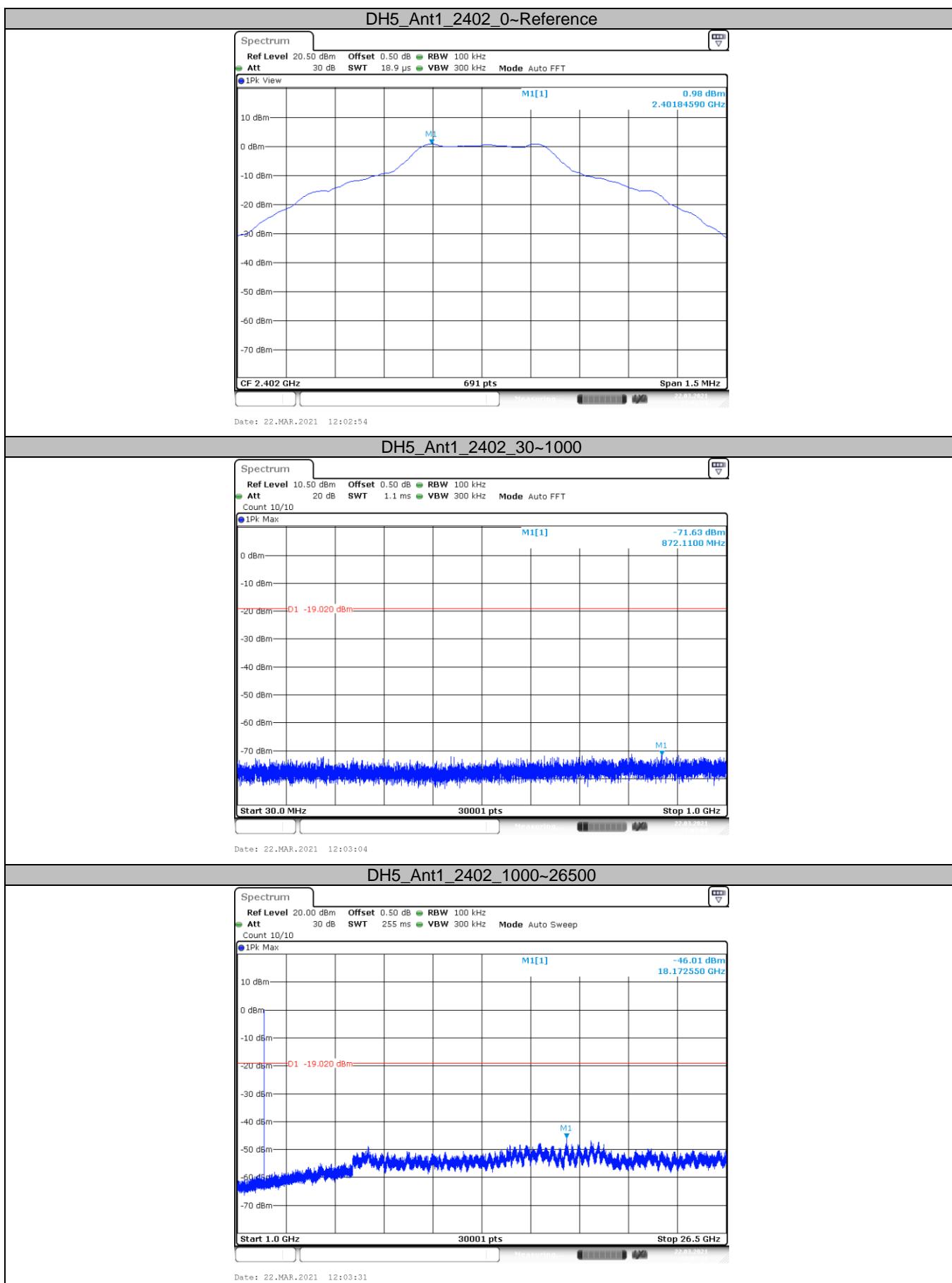
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2	4960.330	-2.38	47.99	45.61	74.00	-28.39	peak																									

<b>Ant. Pol.</b>	Vertical																															
<b>Test Mode:</b>	TX 8-DPSK Mode 2480MHz																															
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.																															
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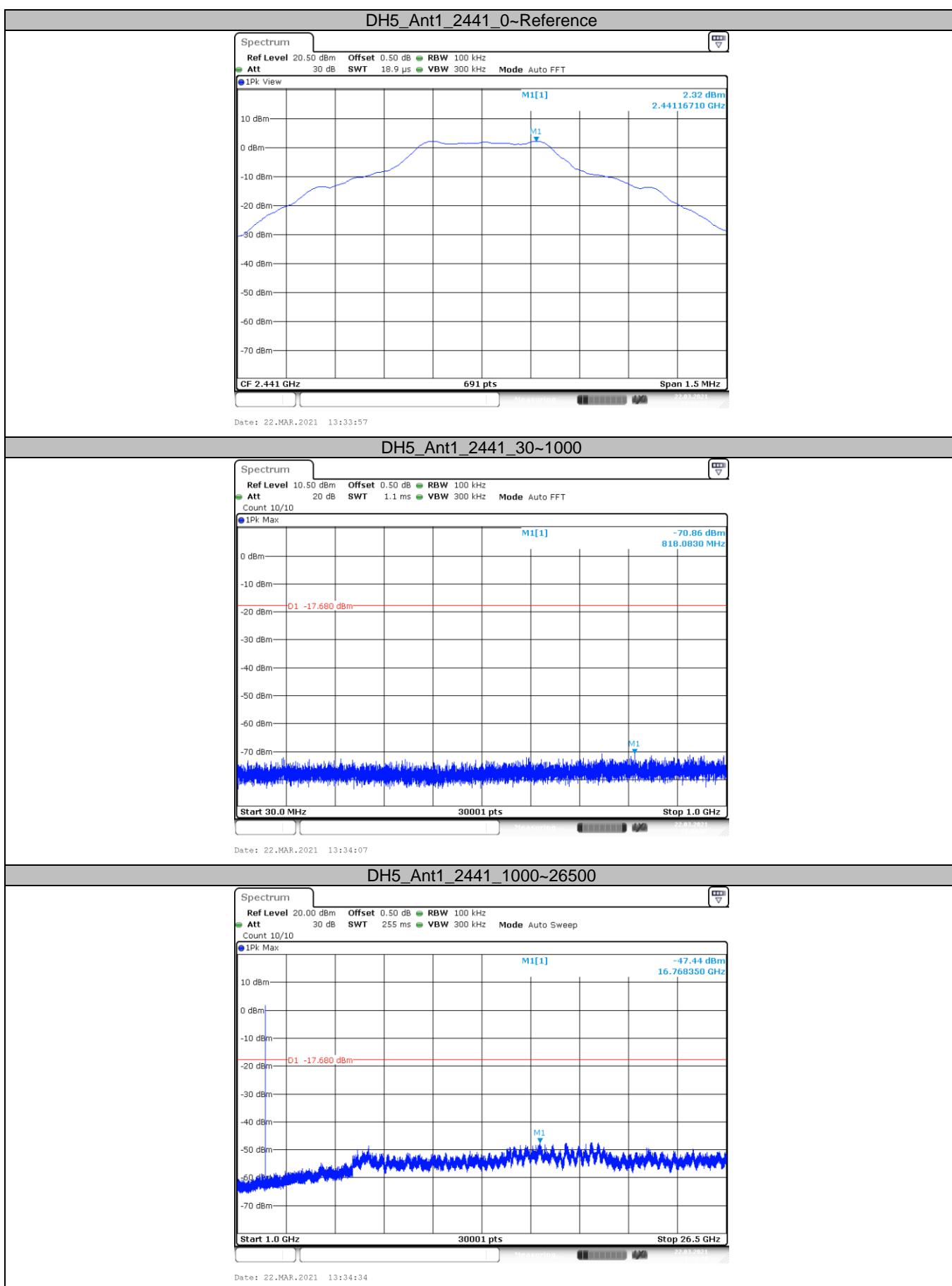


## Conducted Emission data:



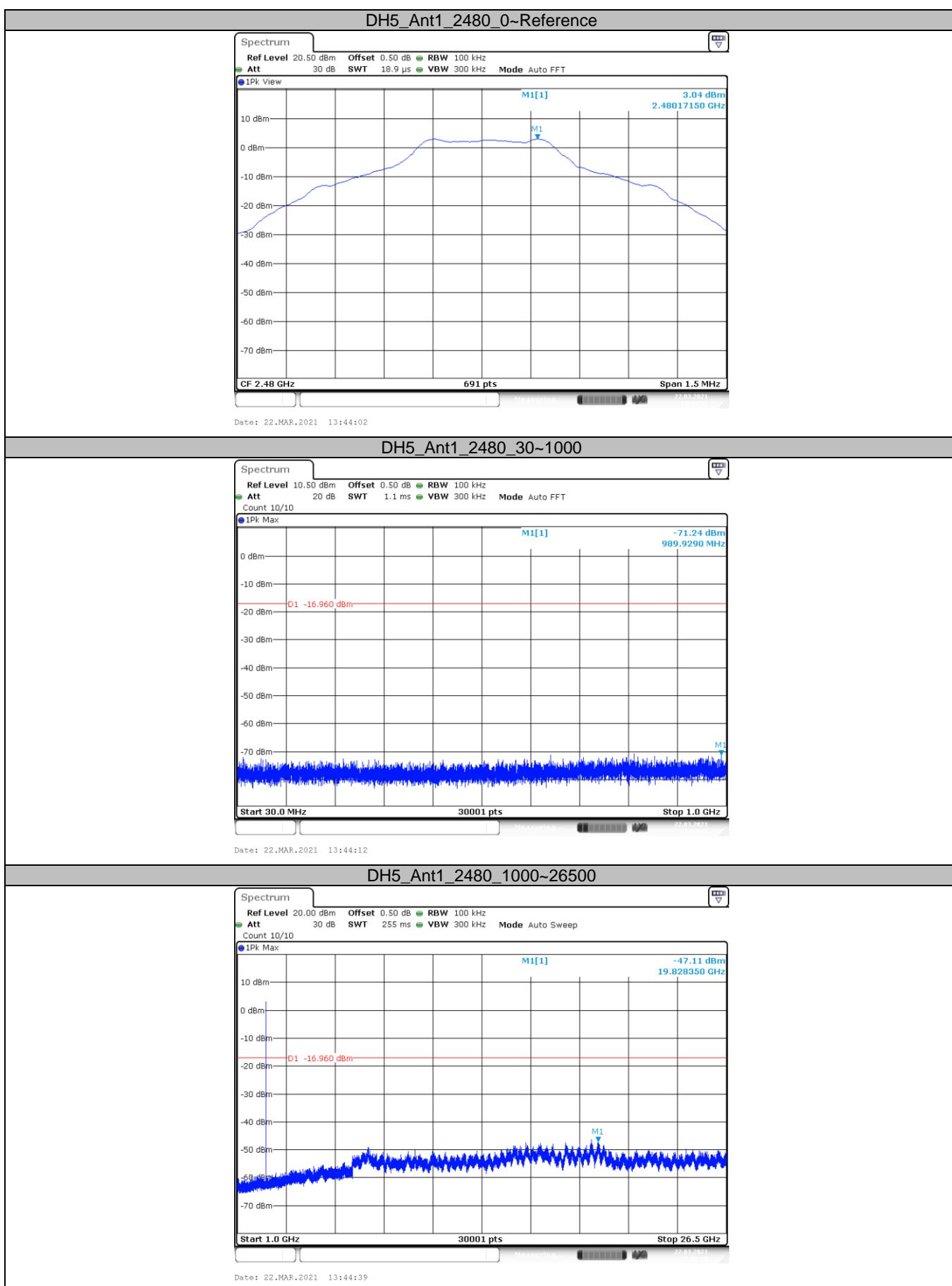
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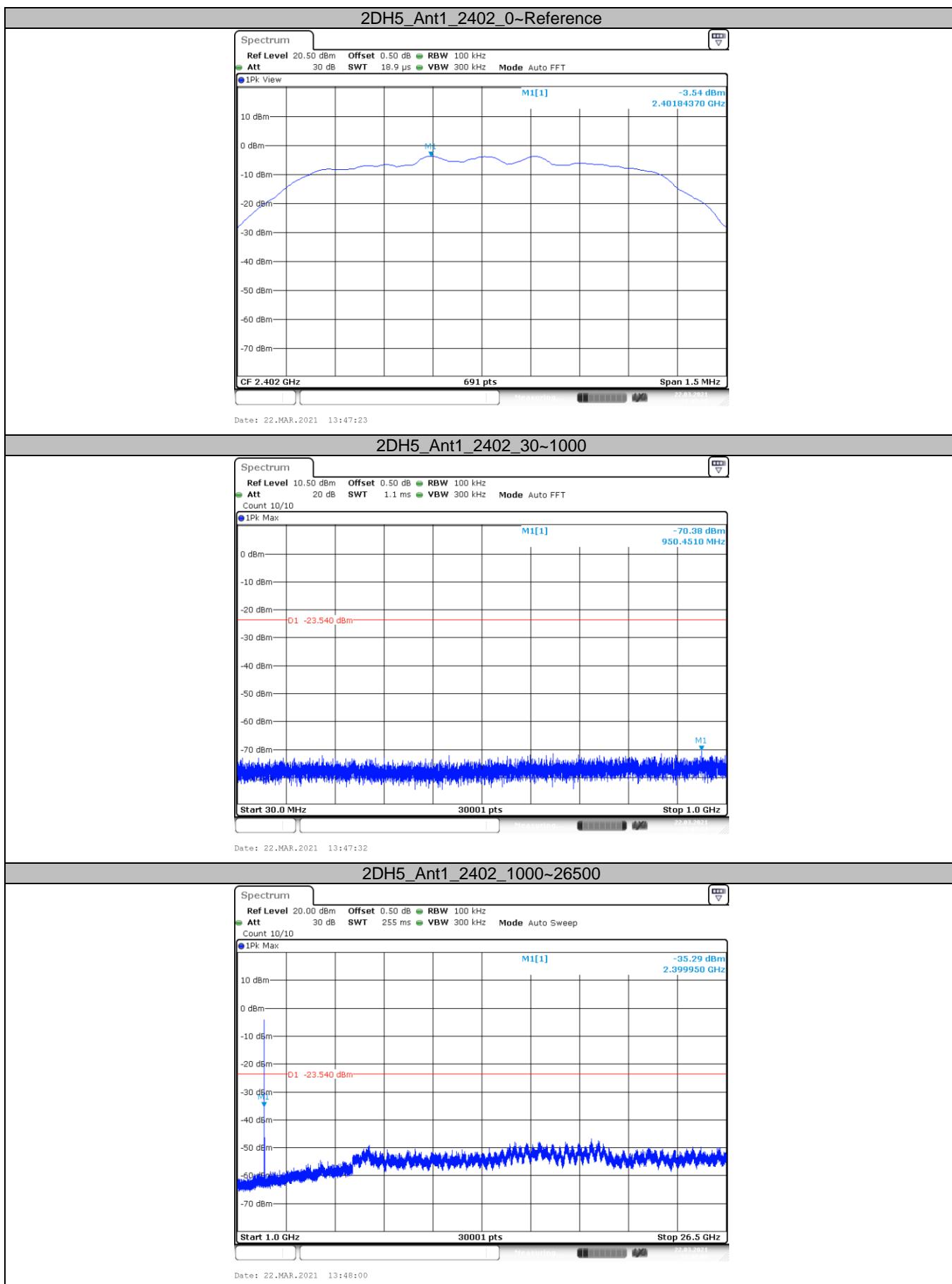
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China  
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cnFor anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : [yz.cnca.cn](http://yz.cnca.cn)



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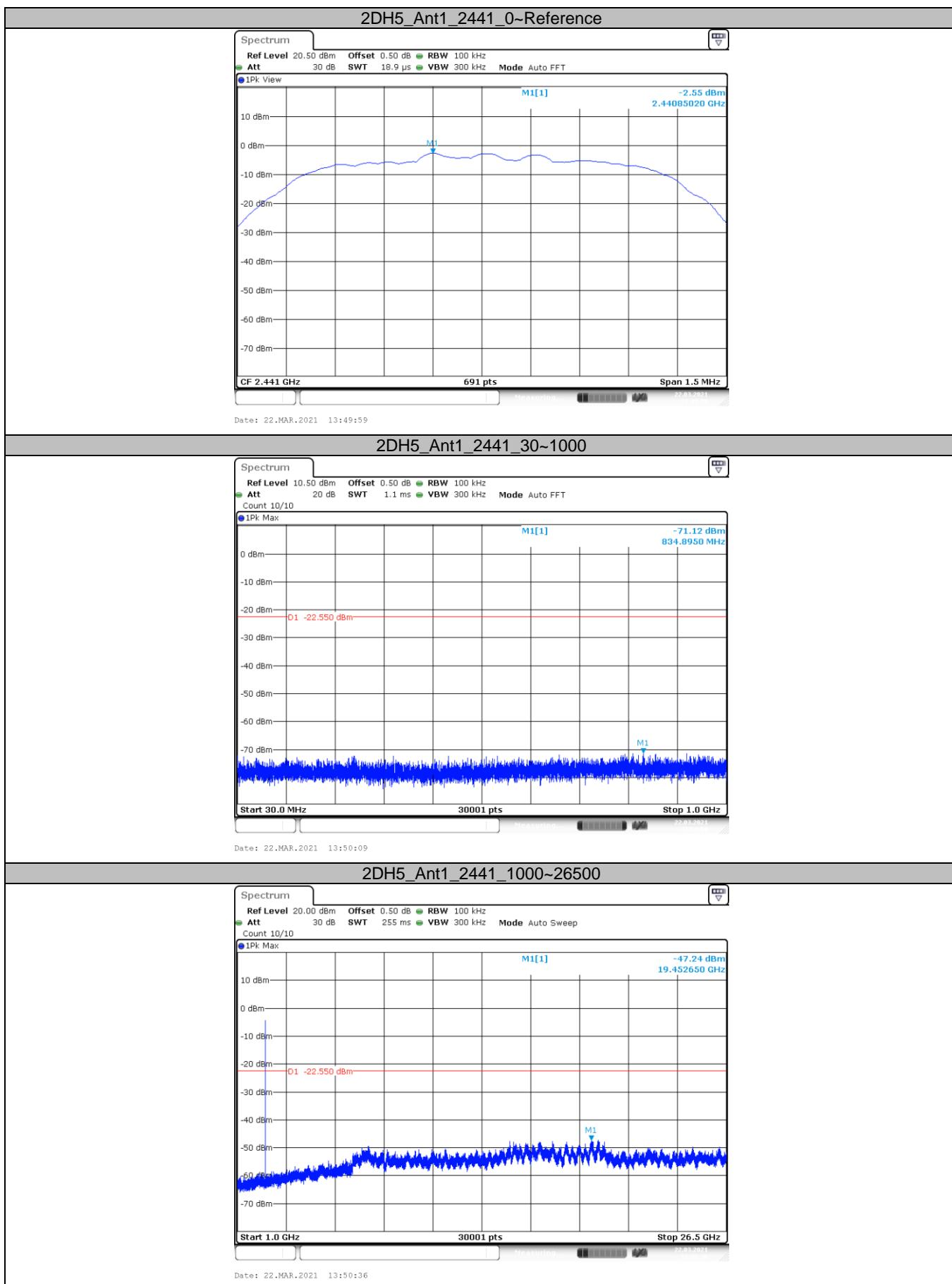
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China  
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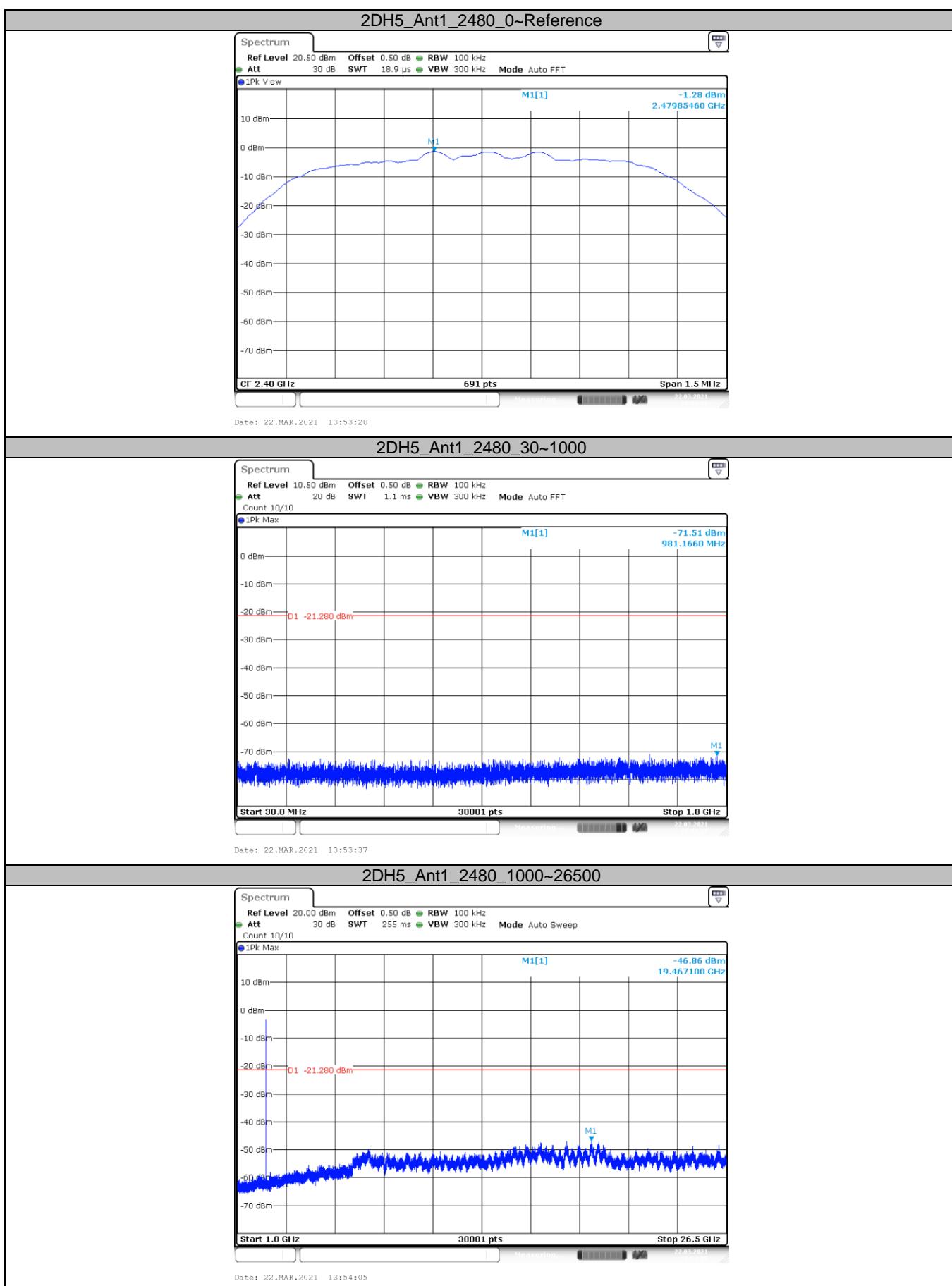


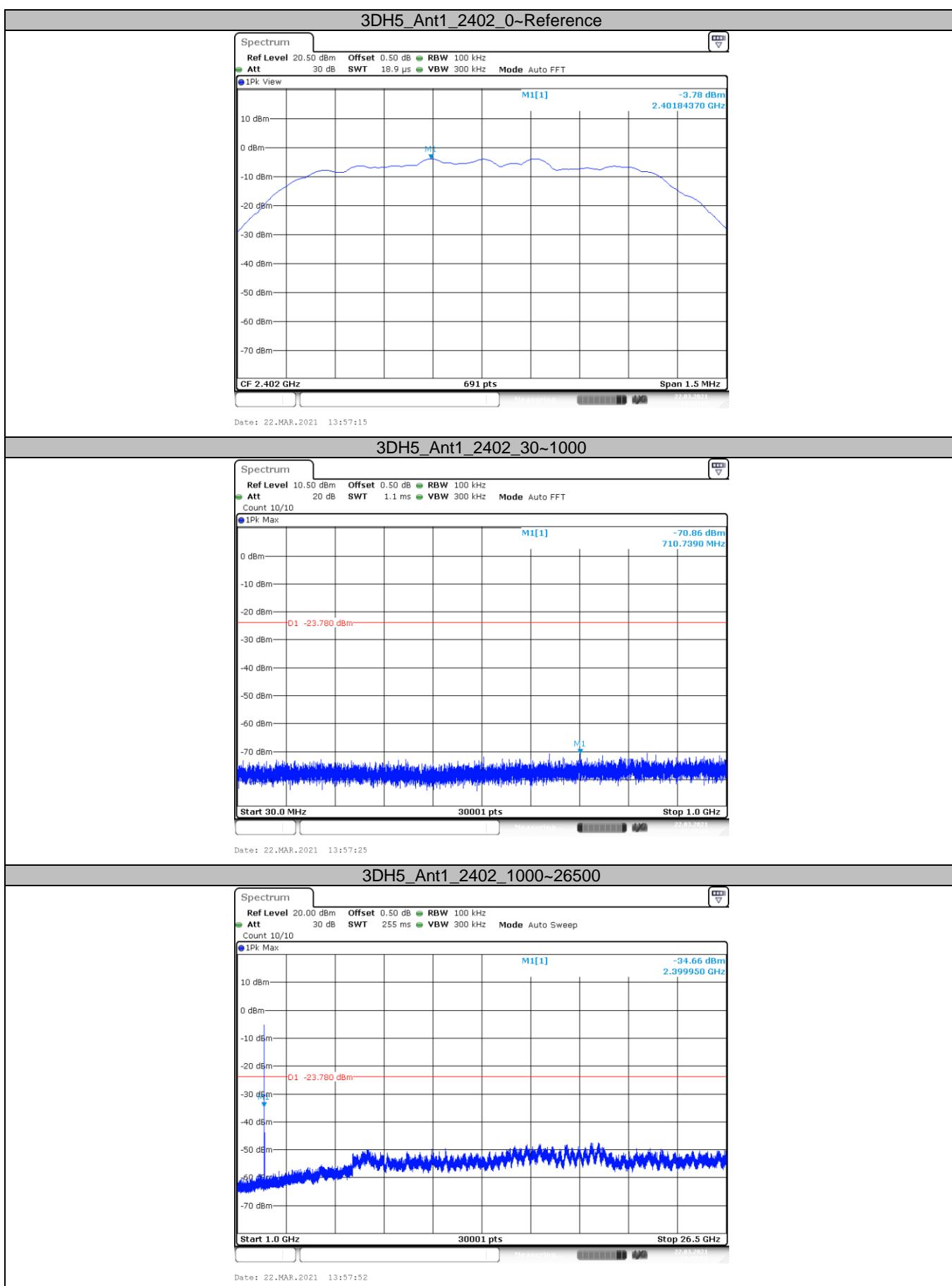


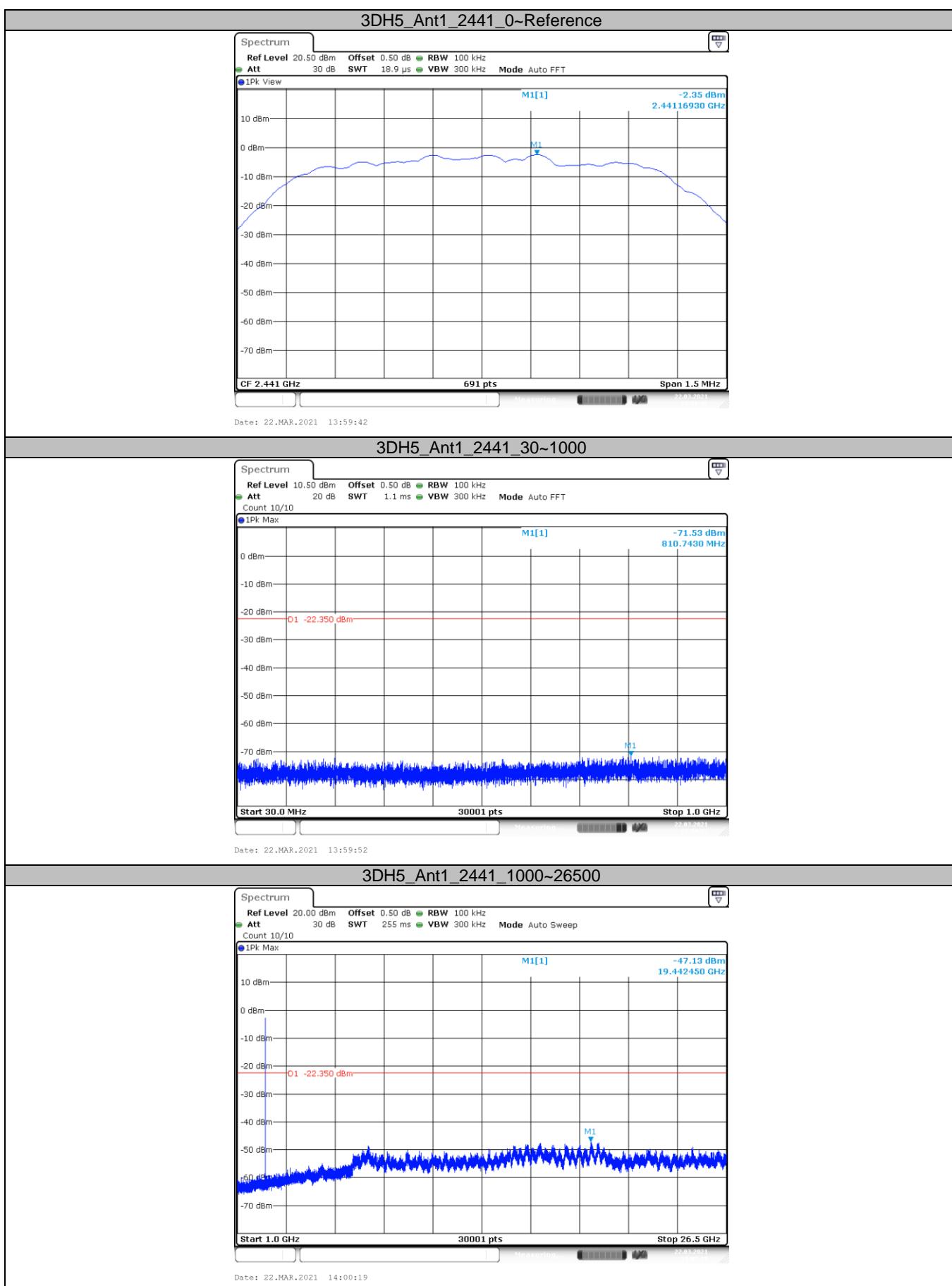
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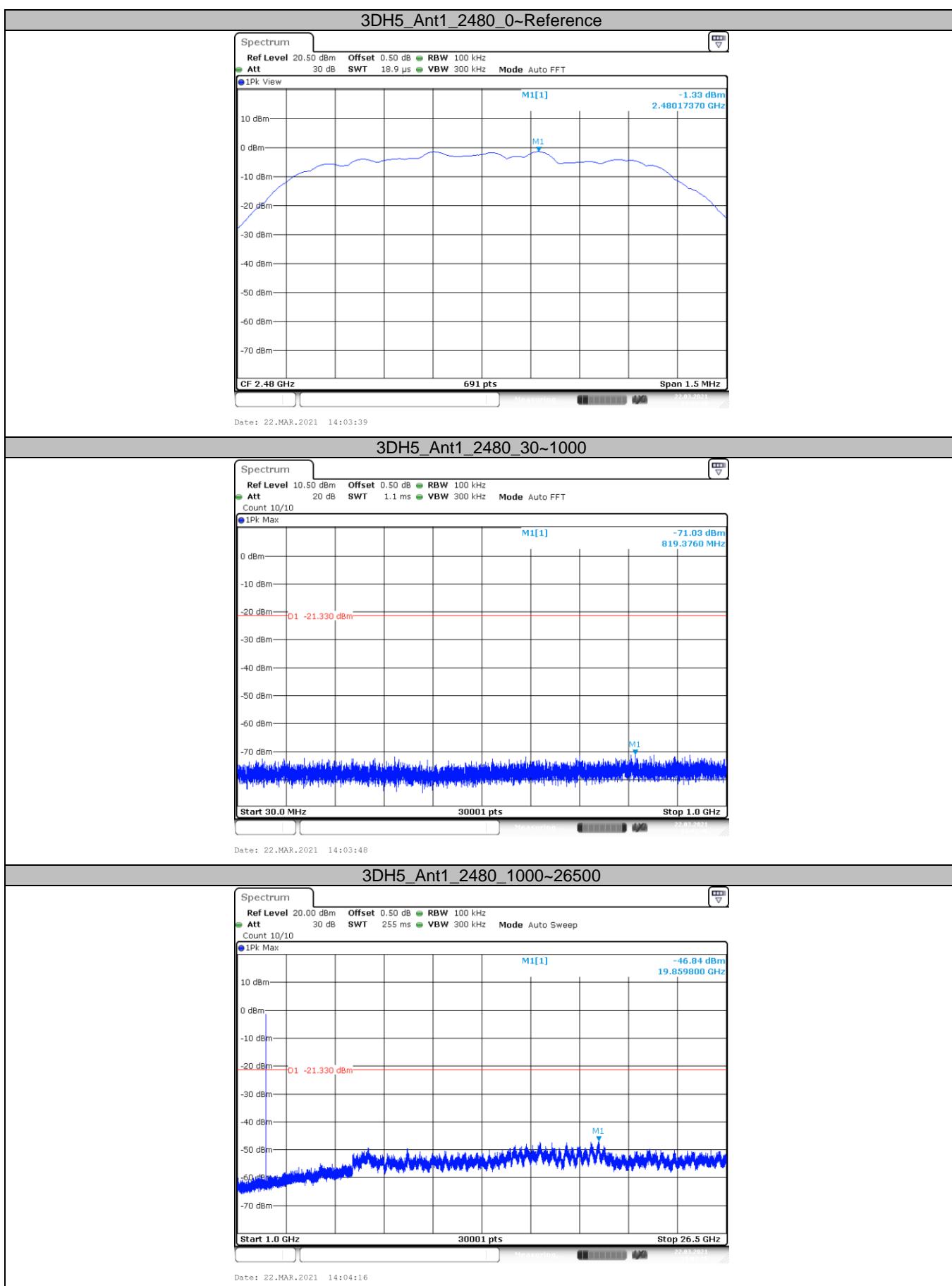






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### 3.3. Band Edge Emissions

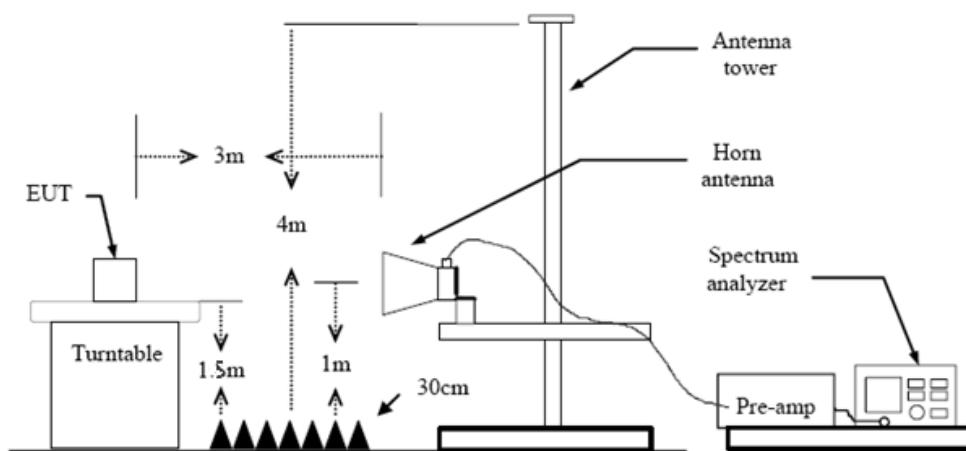
#### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

**Conducted band edge limit:** The highest point of the operating frequency waveform down 20dB

#### Test Configuration



#### Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:  
RBW=1MHz, VBW=3MHz PEAK detector for Peak value.  
RBW=1MHz, VBW=10Hz with PEAK Detector for Average Value.

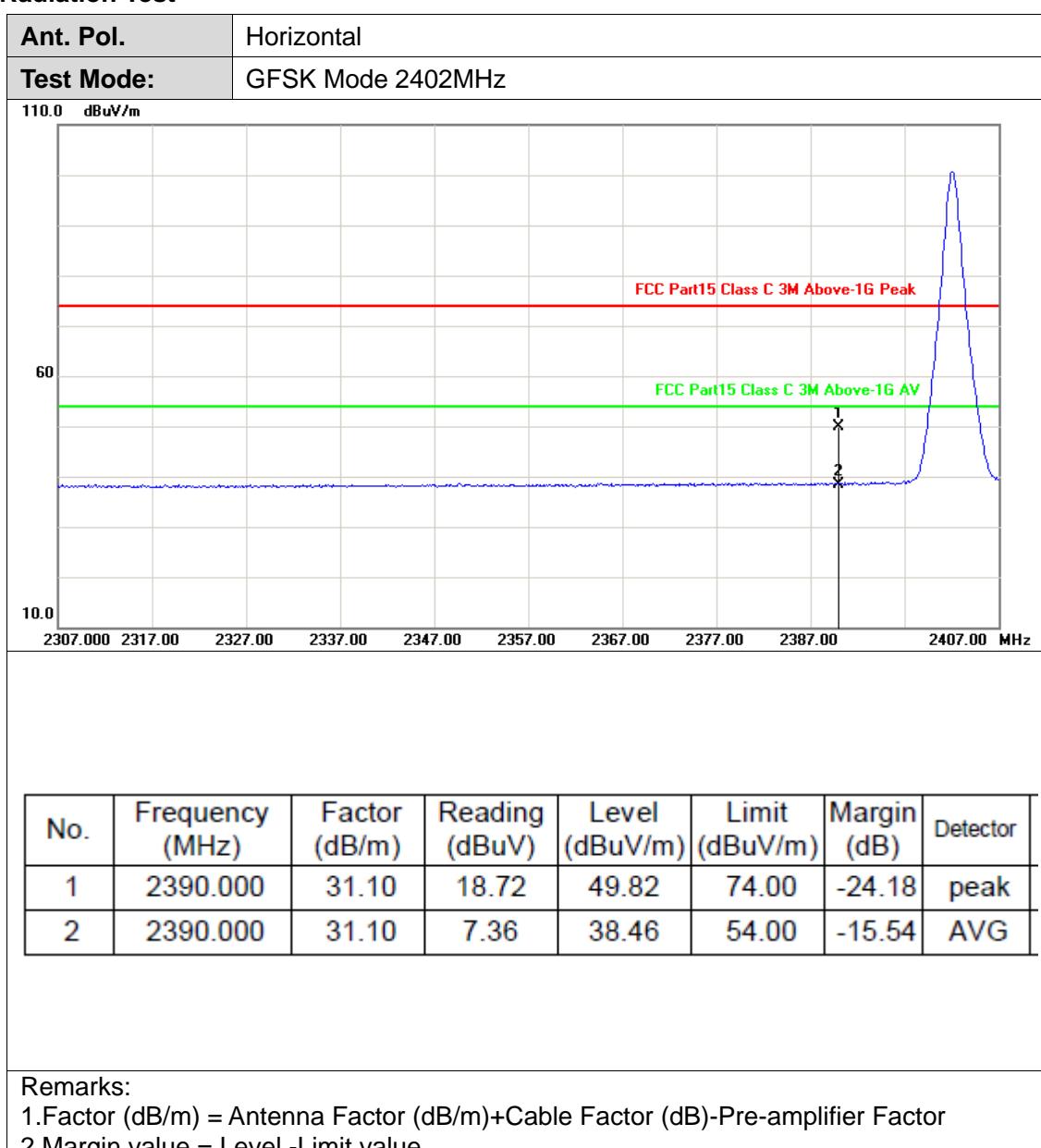
#### Test Mode

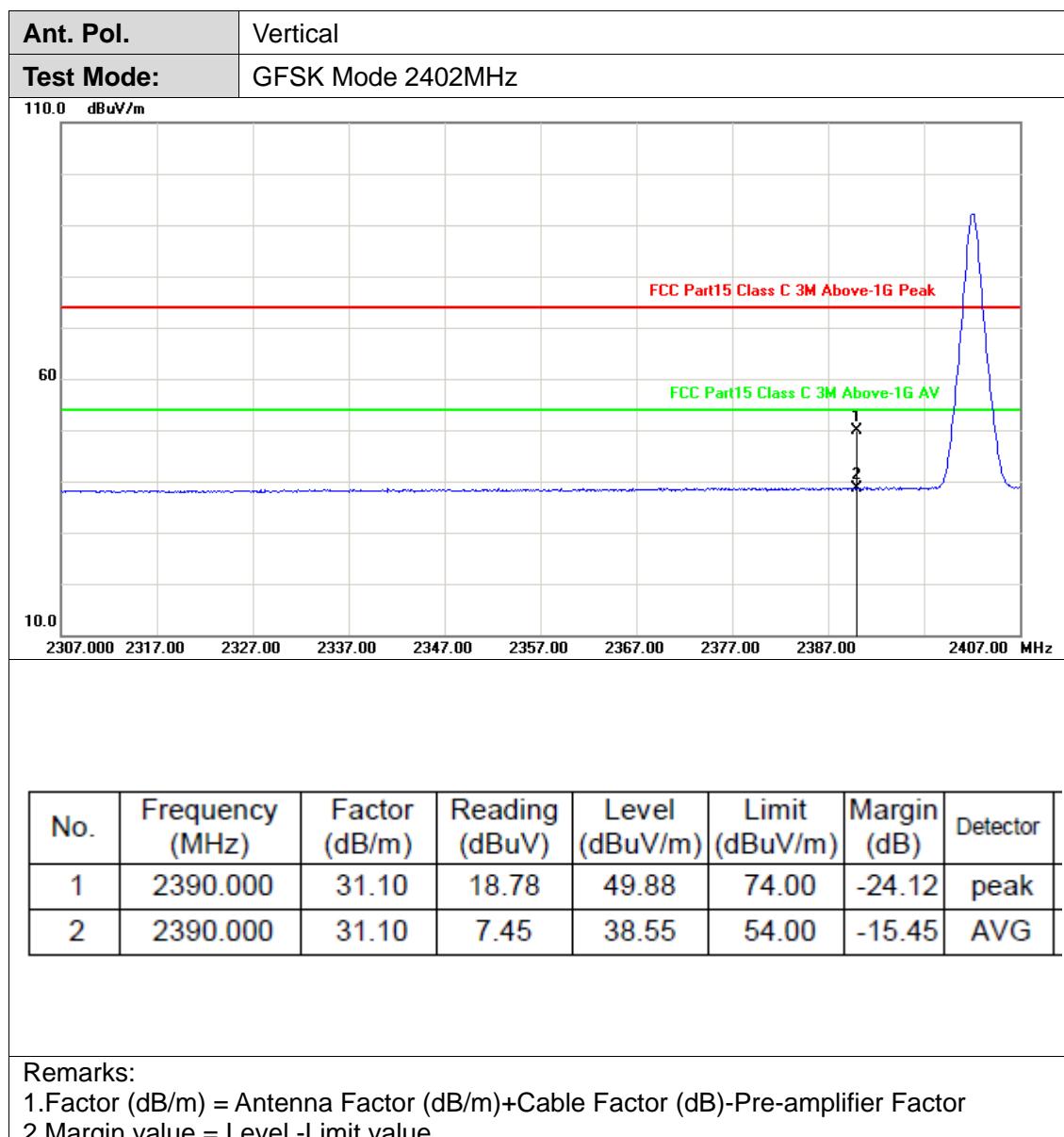
Please refer to the clause 2.3.

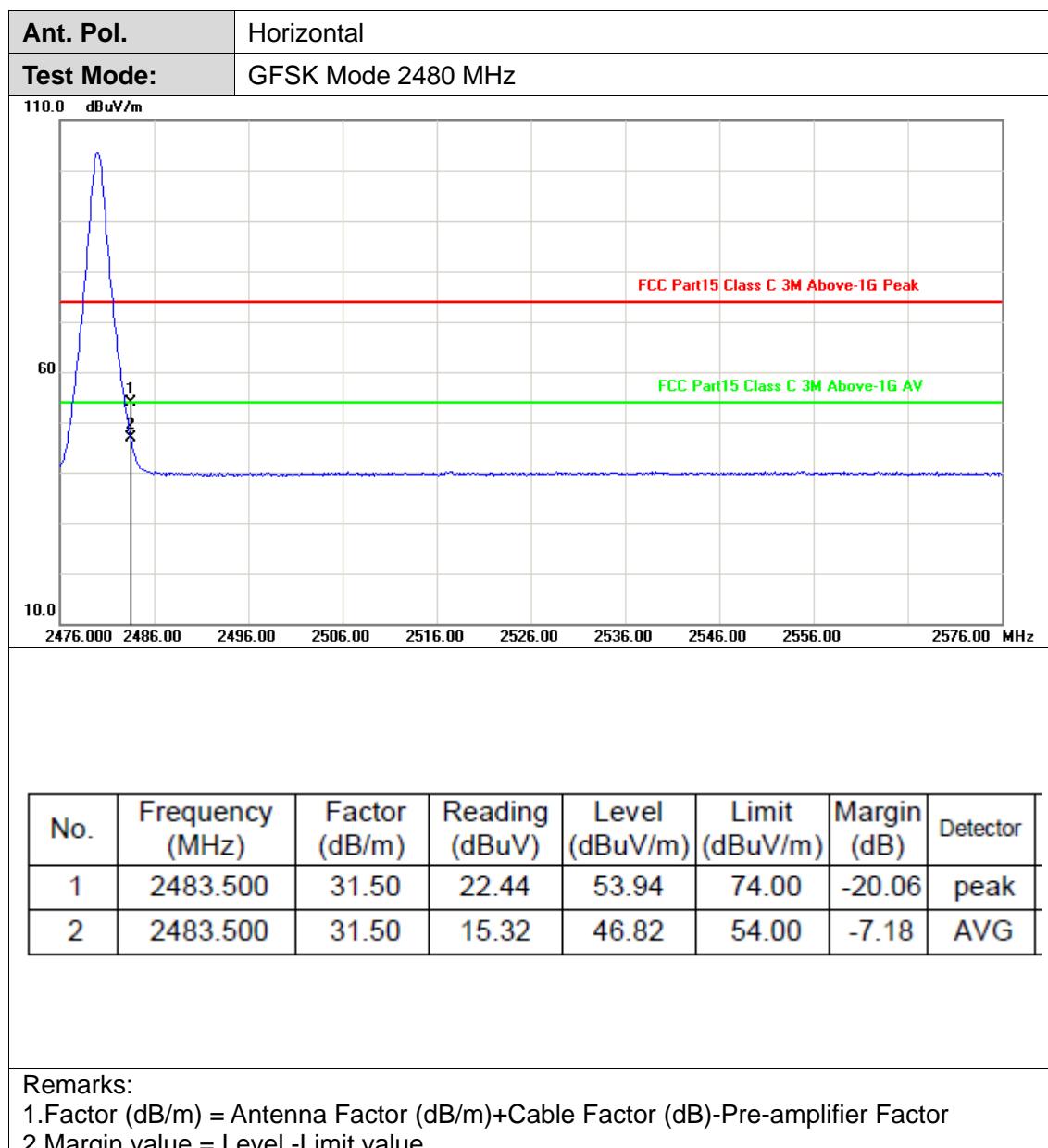


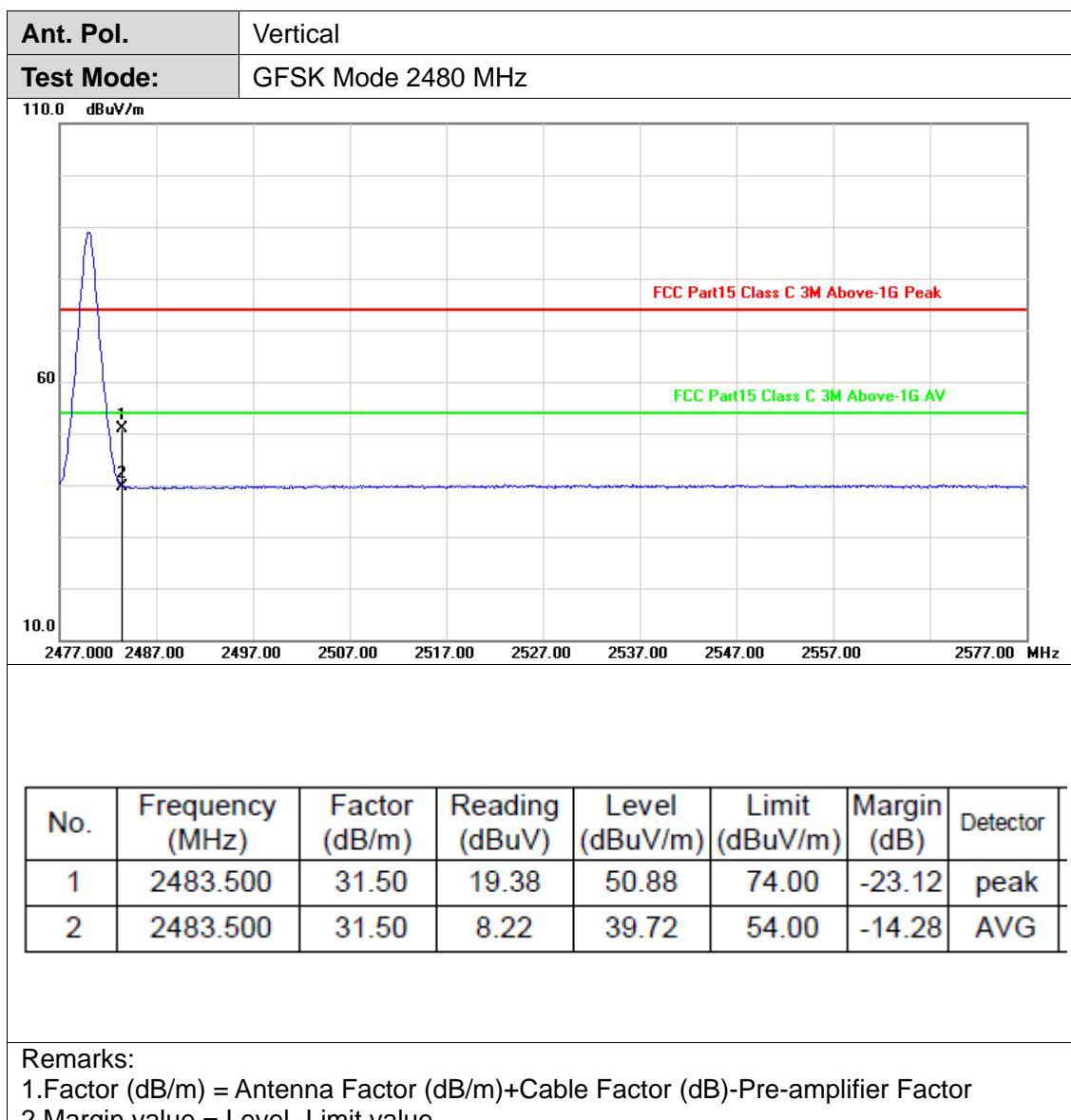
## Test Results

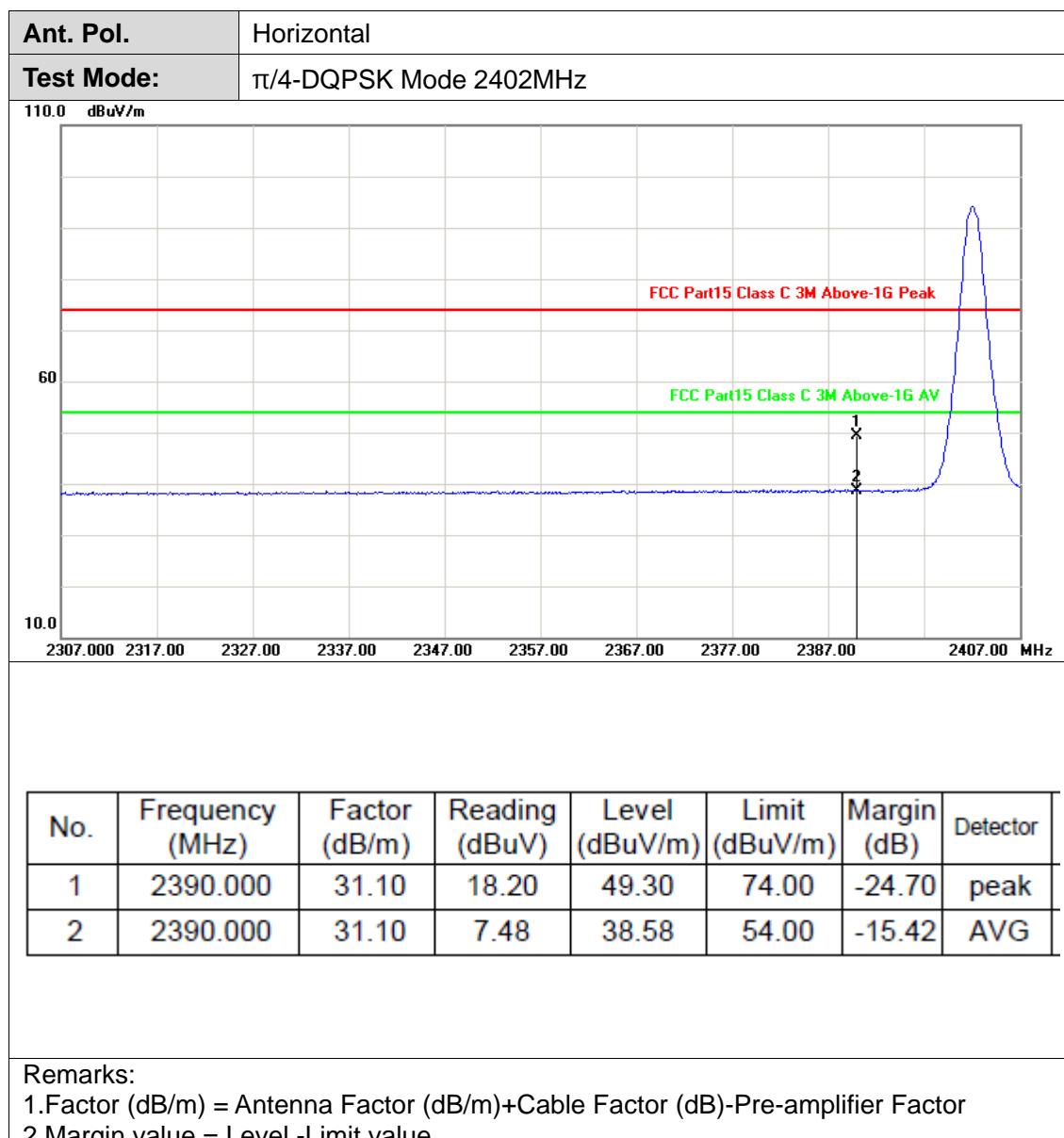
### (1) Radiation Test

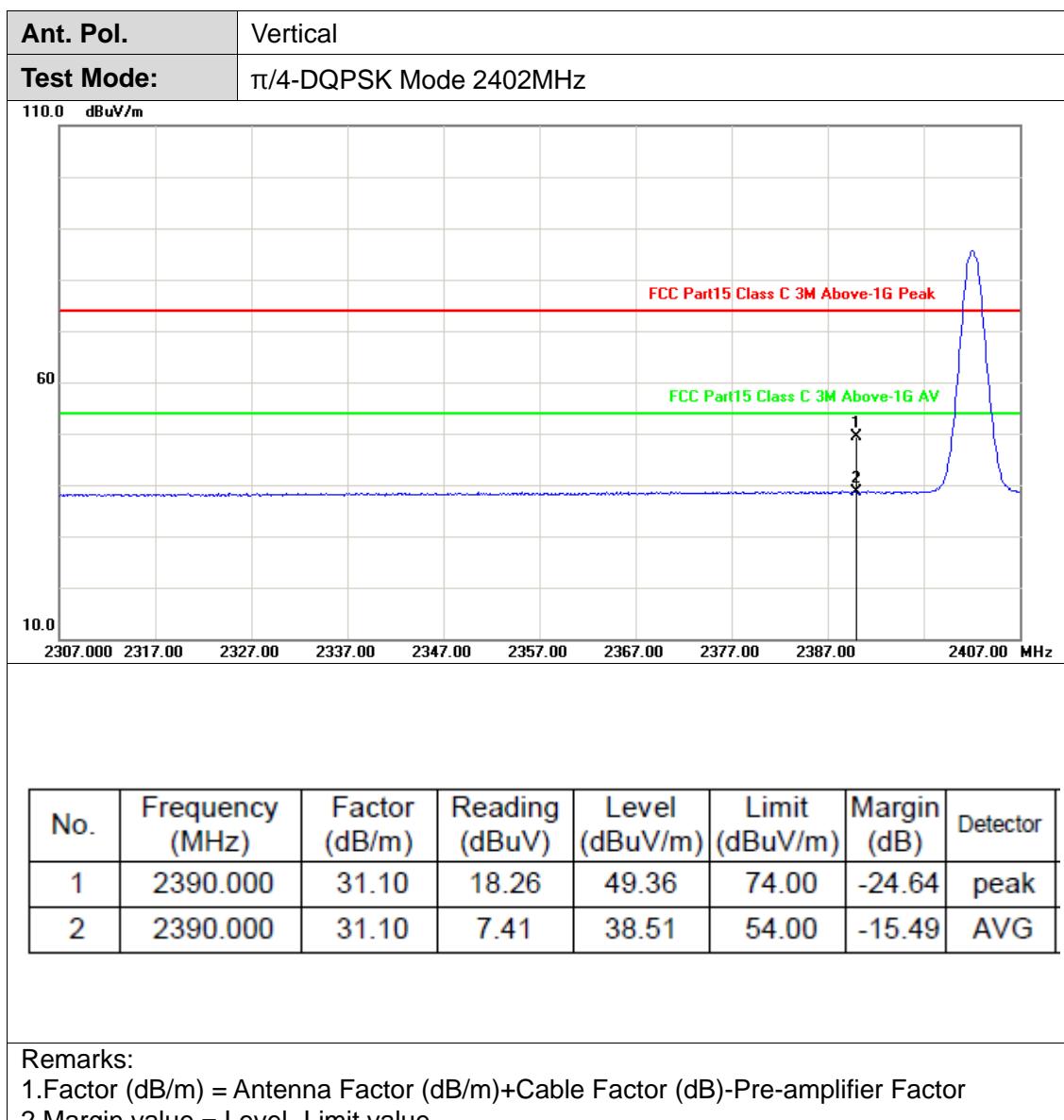


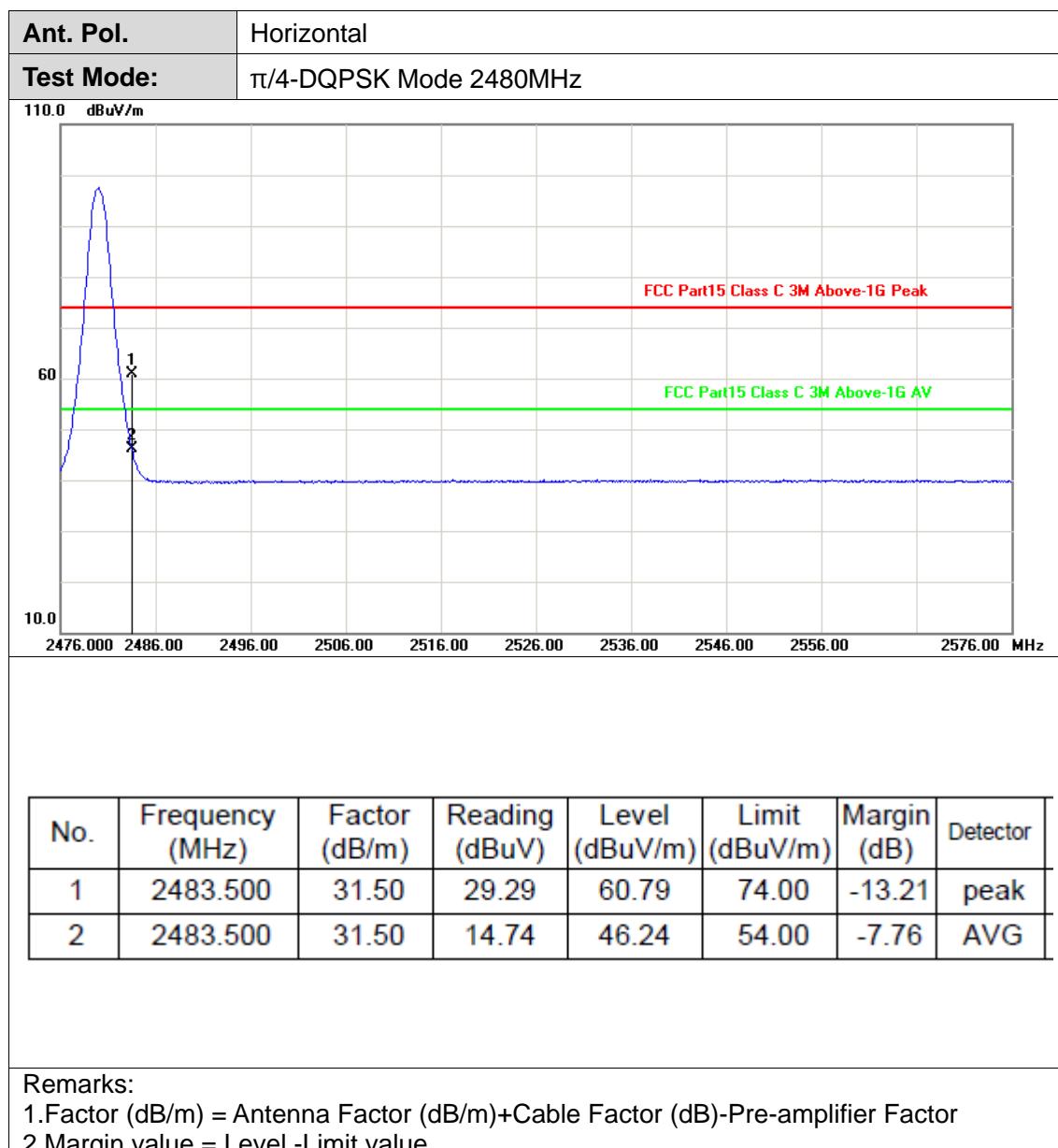


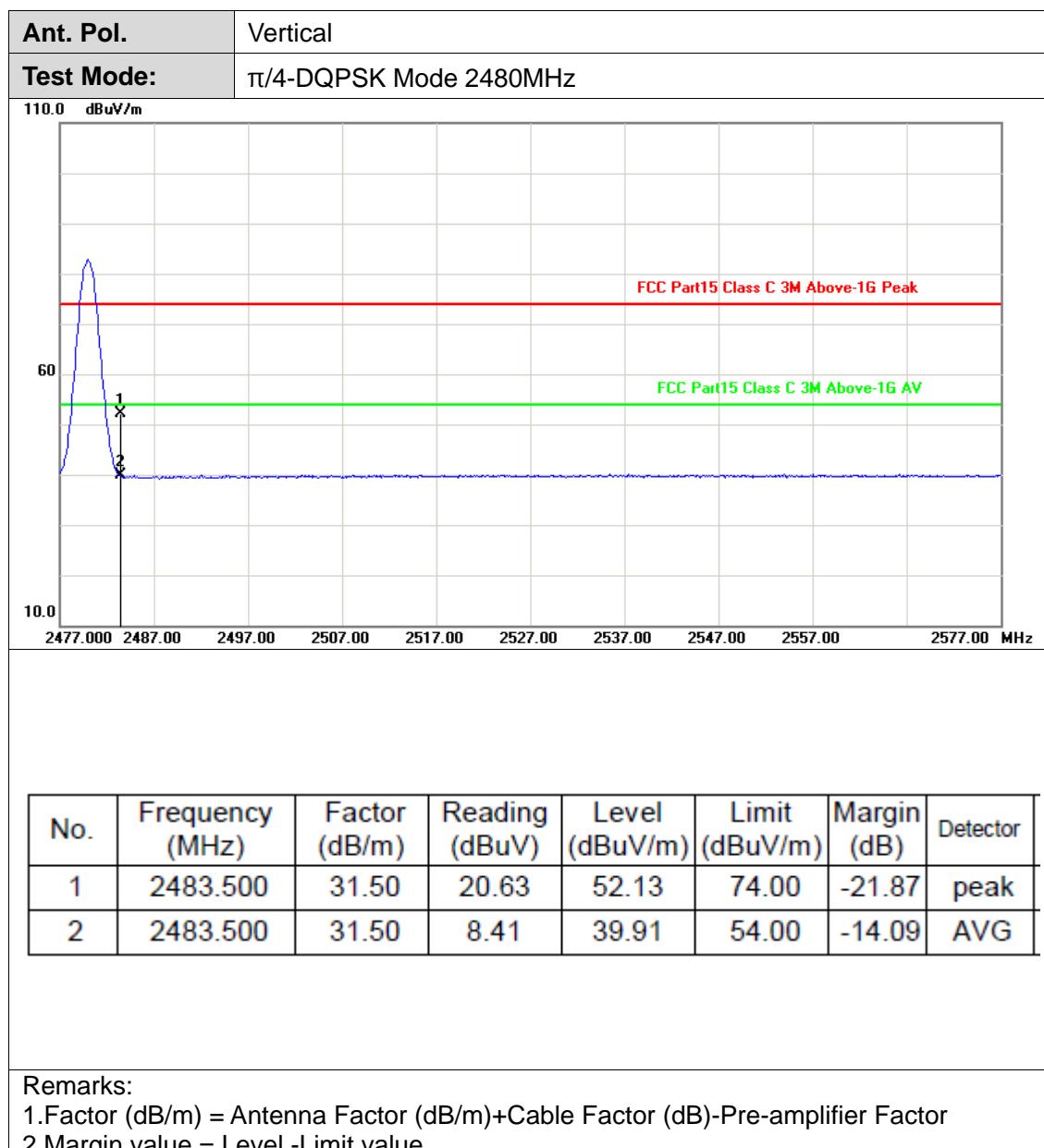


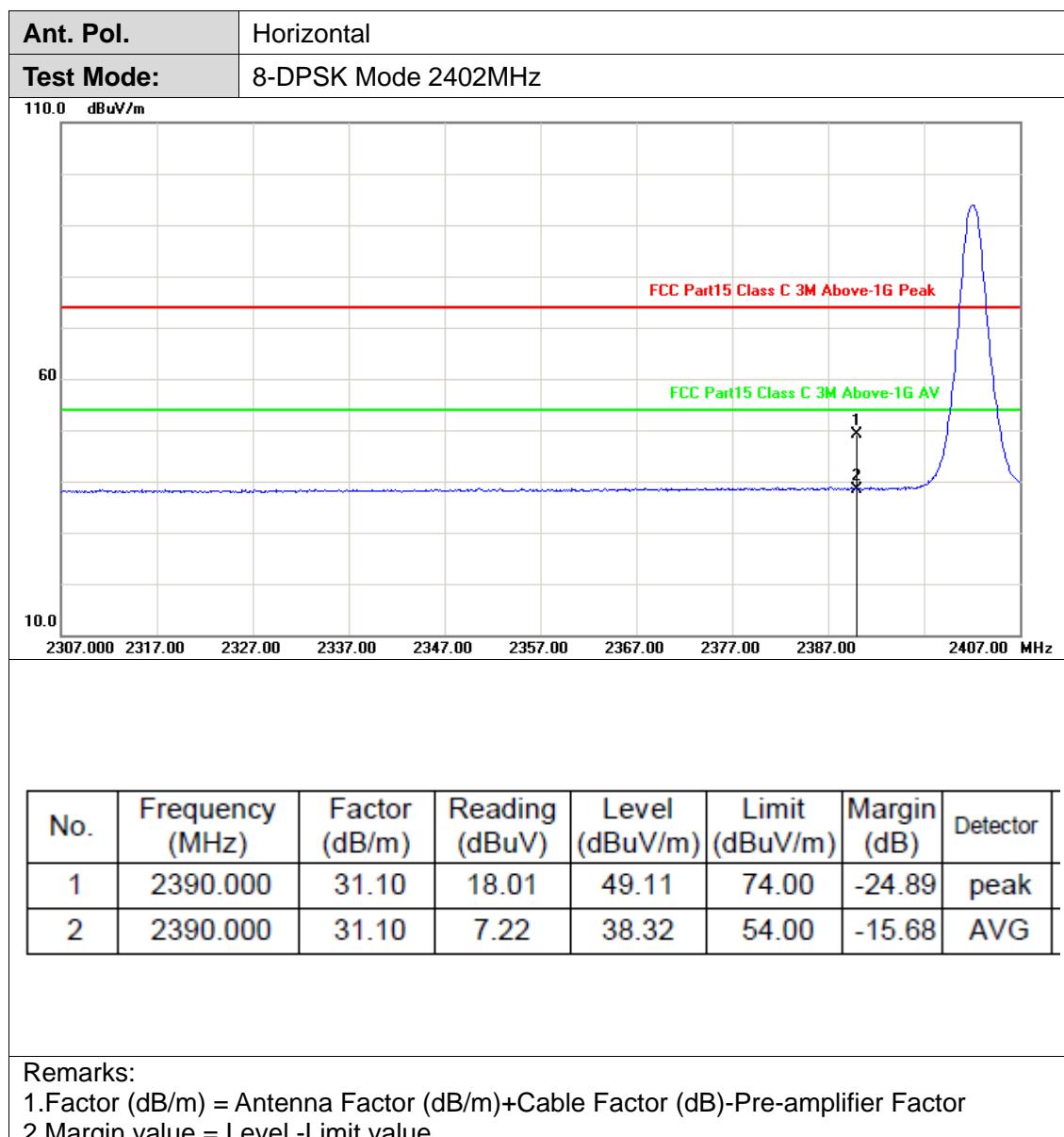












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