

# TEST REPORT

**Application No.:** GZCR2110021196AT  
**Applicant:** Shantou Helicute Model Aircraft Industrial Co.,Ltd  
**Address of Applicant:** Jiangbei Road, Longtian, Guangyi Street, Chenghai District, Chenghai, Shantou City, Guangdong, Shantou, China  
**Manufacturer:** Shantou Helicute Model Aircraft Industrial Co.,Ltd  
**Address of Manufacturer:** Jiangbei Road, Longtian, Guangyi Street, Chenghai District, Chenghai, Shantou City, Guangdong, Shantou, China  
**Factory:** Shantou Helicute Model Aircraft Industrial Co.,Ltd  
**Factory of Manufacturer:** Jiangbei Road, Longtian, Guangyi Street, Chenghai District, Chenghai, Shantou City, Guangdong, Shantou, China

**Equipment Under Test (EUT):**

**EUT Name:** R/C DRONE

**Model No.:** DRCLS16-NOC, DRC-445, DRC-447, DRC-250, DRC-251, NH525, NH530, H01C, H037, H05NCL, H07NCL, H09NL, H09NCL, M801R, M803R, H805W, H806, H806W, H809HW, H809SW, H811C, H811W, H812R, S812, H815HW, H816HW, H817HW, H181HW, H818HPW, H819, H819HW, H820HW, H821HW, H822HW, H823, H823W, H823H, H823HW, H802G, H802W, H02G, H825G, H825W, H826H, H827S, H827SC, H827SW, H828HW, H829, H830, H831, H832, H833, H835, H836, H837, H838, H839, H850, H851, H851SW, H851SWP, H852, H853, H855, H856, H857, H858, H859, H860, H860HW, H860SW, H860SPW, H861, H861G, H862, H863 ♣

♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

**Standard(s) :** 47 CFR Part 15, Subpart E 15.407


**Date of Receipt:** 2021-08-17

**Date of Test:** 2021-08-25 to 2021-10-12

**Date of Issue:** 2021-10-13

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian  
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-10-13		Original

<b>Authorized for issue by</b>			
<b>Tested By</b>		 <hr/> <b>Curry Wu/Project Engineer</b>	
<b>Reviewed By</b>		 <hr/> <b>Ricky Liu/Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass
Frequency Stability		KDB 789033 II A 3	47 CFR Part 15, Subpart C 15.407 (g)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.



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**✦ Declaration of EUT Family Grouping:**

Model No.: DRCLS16-NOC, DRC-445, DRC-447, DRC-250, DRC-251, NH525, NH530, H01C, H037, H05NCL, H07NCL, H09NL, H09NCL, M801R, M803R, H805W, H806, H806W, H809HW, H809SW, H811C, H811W, H812R, S812, H815HW, H816HW, H817HW, H181HW, H818HPW, H819, H819HW, H820HW, H821HW, H822HW, H823, H823W, H823H, H823HW, H802G, H802W, H02G, H825G, H825W, H826H, H827S, H827SC, H827SW, H828HW, H829, H830, H831, H832, H833, H835, H836, H837, H838, H839, H850, H851, H851SW, H851SWP, H852, H853, H855, H856, H857, H858, H859, H860, H860HW, H860SW, H860SPW, H861, H861G, H862, H863

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on Model No., packing and color. Therefore, only the model DRCLS16-NOC was tested.



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### 3 Contents

	Page
<b>1 Cover Page</b> .....	<b>1</b>
<b>2 Test Summary</b> .....	<b>3</b>
<b>3 Contents</b> .....	<b>5</b>
<b>4 General Information</b> .....	<b>7</b>
4.1 Details of E.U.T. ....	7
4.2 Description of Support Units .....	7
4.3 Measurement Uncertainty .....	7
4.4 Test Location .....	8
4.5 Test Facility .....	8
4.6 Deviation from Standards .....	9
4.7 Abnormalities from Standard Conditions .....	9
<b>5 Equipment List</b> .....	<b>10</b>
<b>6 Radio Spectrum Technical Requirement</b> .....	<b>13</b>
6.1 Antenna Requirement .....	13
6.1.1 Test Requirement: .....	13
6.1.2 Conclusion .....	13
6.2 Transmission in the Absence of Data .....	14
6.2.1 Test Requirement: .....	14
6.2.2 Conclusion .....	14
6.3 Frequency Stability .....	15
6.3.1 Test Requirement: .....	15
6.3.2 E.U.T. Operation .....	<b>Error! Bookmark not defined.</b>
6.3.3 Test Mode Description .....	<b>Error! Bookmark not defined.</b>
6.3.4 Test Setup Diagram .....	<b>Error! Bookmark not defined.</b>
6.3.5 Measurement Procedure and Data .....	<b>Error! Bookmark not defined.</b>
<b>7 Radio Spectrum Matter Test Results</b> .....	<b>16</b>
7.1 Duty Cycle .....	16
7.1.1 E.U.T. Operation .....	16
7.1.2 Test Mode Description .....	16
7.1.3 Test Setup Diagram .....	16
7.1.4 Measurement Procedure and Data .....	16
7.2 99% Bandwidth .....	17
7.2.1 E.U.T. Operation .....	17
7.2.2 Test Mode Description .....	17
7.2.3 Test Setup Diagram .....	17
7.2.4 Measurement Procedure and Data .....	17
7.3 Minimum 6 dB bandwidth (5.725-5.85 GHz band) .....	18
7.3.1 E.U.T. Operation .....	18
7.3.2 Test Mode Description .....	18
7.3.3 Test Setup Diagram .....	18
7.3.4 Measurement Procedure and Data .....	18
7.4 Maximum Conducted output power .....	19



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7.4.1	E.U.T. Operation .....	19
7.4.2	Test Mode Description .....	19
7.4.3	Test Setup Diagram .....	19
7.4.4	Measurement Procedure and Data.....	19
7.5	Peak Power spectrum density.....	20
7.5.1	E.U.T. Operation .....	20
7.5.2	Test Mode Description .....	20
7.5.3	Test Setup Diagram .....	20
7.5.4	Measurement Procedure and Data.....	20
7.6	Radiated Emissions .....	21
7.6.1	E.U.T. Operation .....	21
7.6.2	Test Mode Description .....	21
7.6.3	Test Setup Diagram .....	22
7.6.4	Measurement Procedure and Data.....	23
7.7	Radiated Emissions which fall in the restricted bands .....	32
7.7.1	E.U.T. Operation .....	32
7.7.2	Test Mode Description .....	32
7.7.3	Test Setup Diagram .....	33
7.7.4	Measurement Procedure and Data.....	34
<b>8</b>	<b>Test Setup Photo .....</b>	<b>39</b>
<b>9</b>	<b>EUT Constructional Details (EUT Photos) .....</b>	<b>40</b>
<b>10</b>	<b>Appendix.....</b>	<b>41</b>



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: Input 7.6Vdc, 1950mAh via rechargeable battery  
 battery charger: Input 5Vdc, 2A, Output 8.8Vdc, 1.8A

Cable(s): USB cable: 30cm, unshielded

Operation Frequency 5765MHz, 5785MHz, 5805MHz

Modulation Type: OFDM

Antenna Type: Integral Antenna

Antenna Gain(Max): Antenna 1: 2dBi and Antenna 2: 2dBi declared by applicant.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	3.12dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions	5.06dB (30MHz-1GHz ; 3m) 4.46dB (30MHz-1GHz ; 10m) 5.08dB (1GHz-6GHz) 5.14dB (above 6GHz)
Radiated Emissions which fall in the restricted bands	5.06dB (30MHz-1GHz ; 3m) 4.46dB (30MHz-1GHz ; 10m) 5.08dB (1GHz-6GHz) 5.14dB (above 6GHz)
Frequency Stability	± 7.25 x 10 <sup>-8</sup>



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#### 4.4 Test Location

All tests were performed at:

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 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

#### 4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17 2021-09-16	2021-09-16 2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17 2021-09-16	2021-09-16 2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17 2021-09-16	2021-09-16 2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17 2021-09-16	2021-09-16 2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01



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<b>Radiated Emissions</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020/9/9	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17 2021-09-16	2021-09-16 2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-28	2022-07-27
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-09-08	2022-09-07

<b>Radiated Emissions which fall in the restricted bands</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17 2021-09-16	2021-09-16 2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-28	2022-07-27



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Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-09-08	2022-09-07

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

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.

The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna 1: 2 dBi; Antenna 2: 2 dBi.

EUT not support 2x2 MIMO for any transmit signals are uncorrelated with each other.



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## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

The chip (RTC6705) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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### 6.3 Frequency Stability

#### 6.3.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (g)

#### 6.3.2 Conclusion

The fundamental emissions of the EUT was kept within at least the central 80% of its permitted operating frequency band as applicant's declaration, In addition, its occupied bandwidth was entirely outside the restricted bands, it comply the frequency stability requirement.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Duty Cycle

Test Requirement KDB 789033 D02 II B 1  
 Test Method: KDB 789033 D02 II B 2

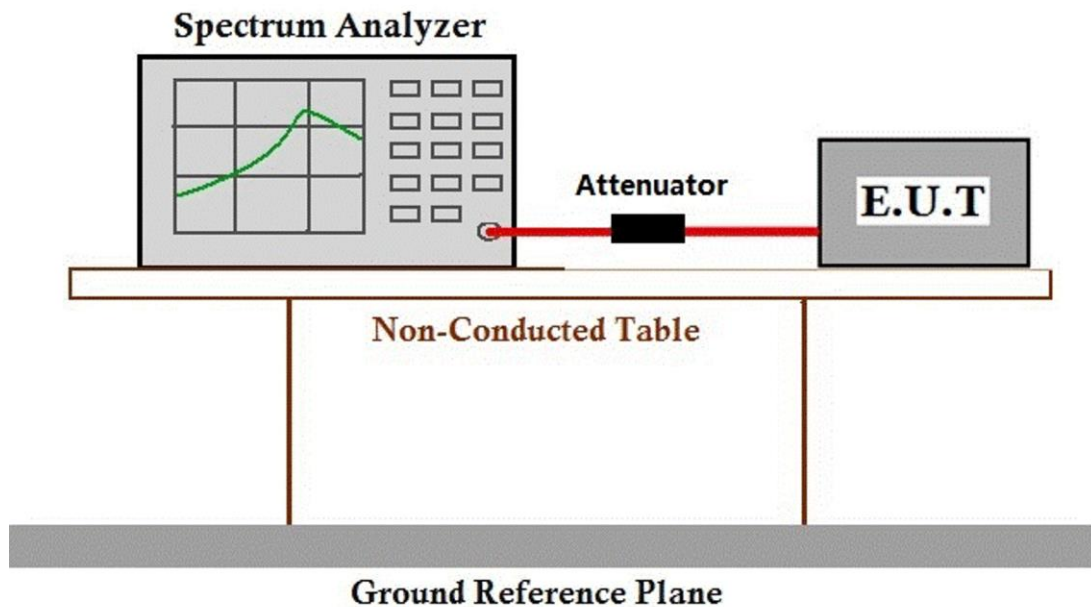
#### 7.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 29.6 °C Humidity: 53.3 % RH Atmospheric Pressure: 1005 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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### 7.2 99% Bandwidth

Test Requirement N/A  
Test Method: KDB 789033 II D

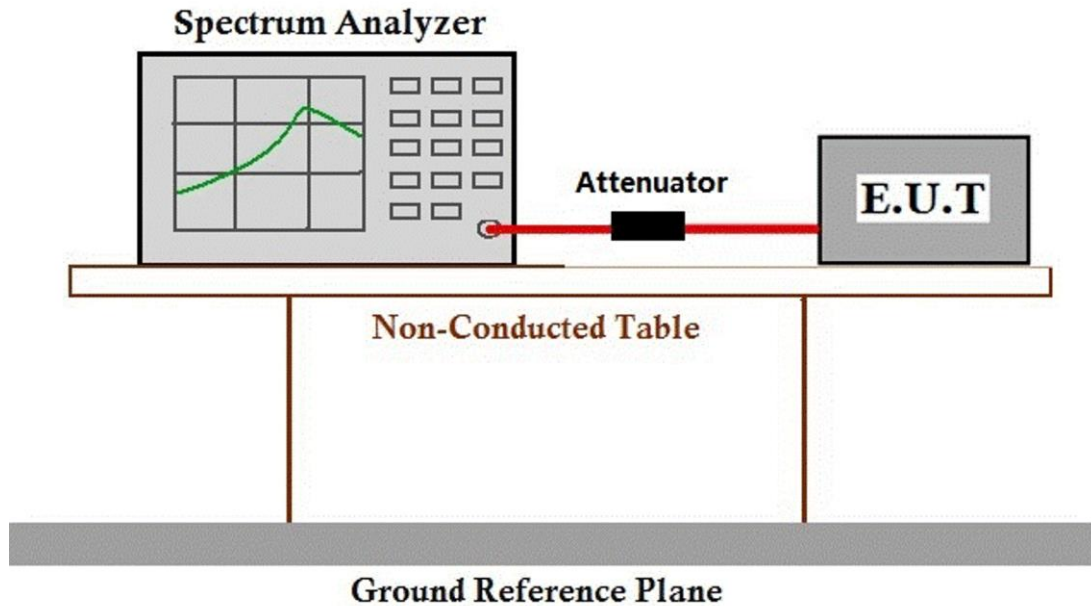
#### 7.2.1 E.U.T. Operation

Operating Environment:  
Temperature: 29.6 °C Humidity: 53.3 % RH Atmospheric Pressure: 1005 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



**7.3 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

**7.3.1 E.U.T. Operation**

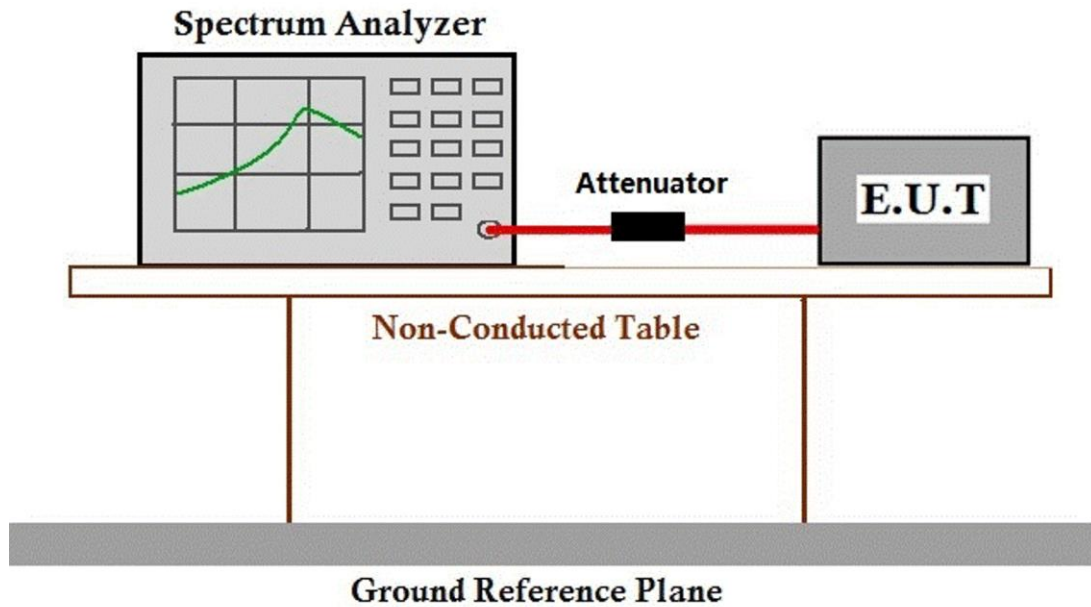
Operating Environment:

Temperature: 29.6 °C Humidity: 53.3 % RH Atmospheric Pressure: 1005 mbar

**7.3.2 Test Mode Description**

Pre-scan / Mode	Final test Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

**7.3.3 Test Setup Diagram**



**7.3.4 Measurement Procedure and Data**

Please Refer To Appendix For Details



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### 7.4 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5725-5850	≤1W(30dBm)

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 29.6 °C

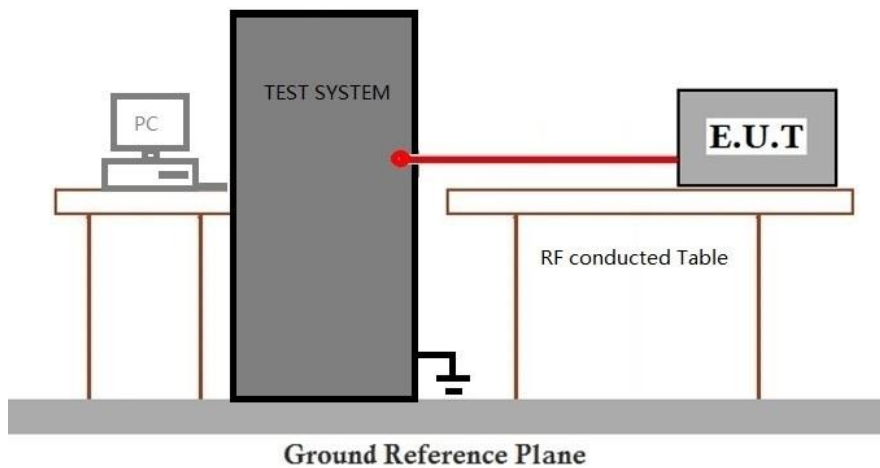
Humidity: 53.3 % RH

Atmospheric Pressure: 1005 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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### 7.5 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

#### 7.5.1 E.U.T. Operation

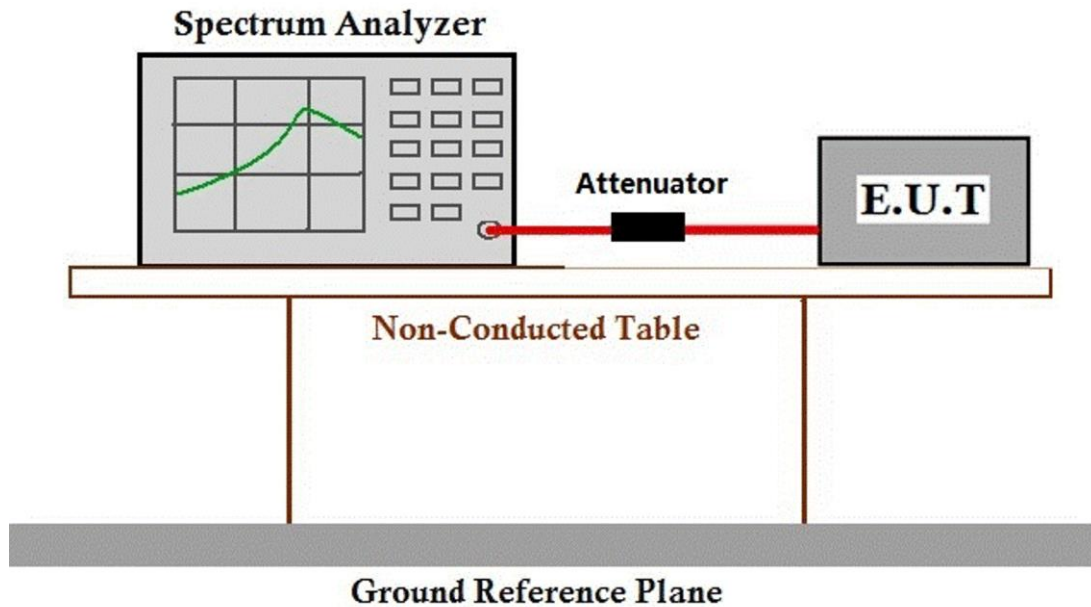
Operating Environment:

Temperature: 29.6 °C Humidity: 53.3 % RH Atmospheric Pressure: 1005 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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**7.6 Radiated Emissions**

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.6.1 E.U.T. Operation**

Operating Environment:

Temperature: 26.2 °C Humidity: 62.5 % RH Atmospheric Pressure: 1010 mbar

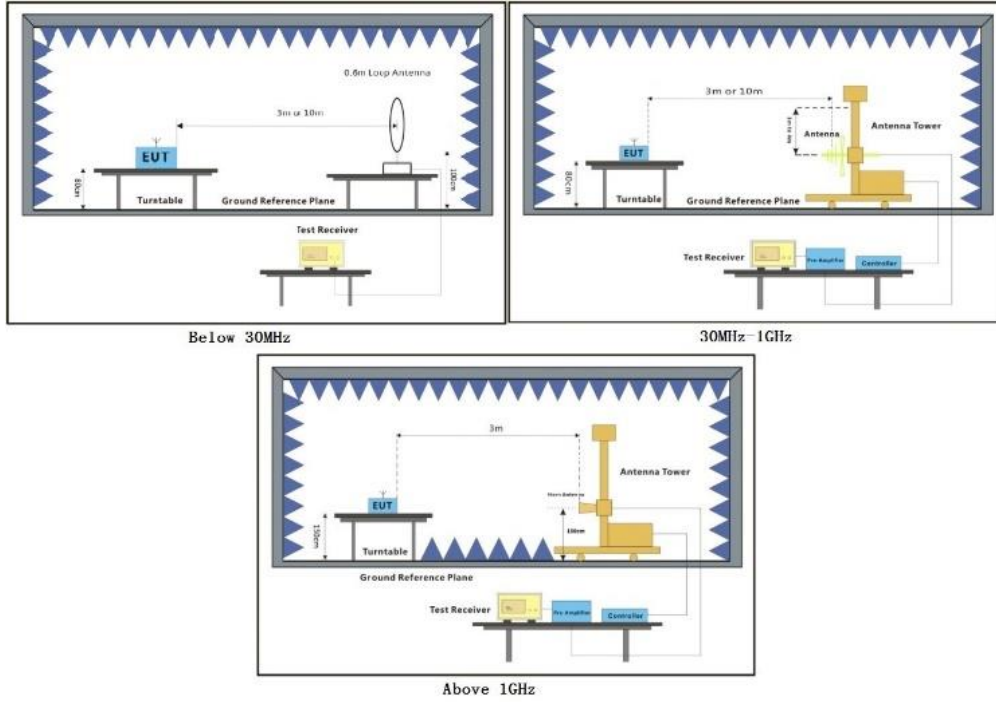
**7.6.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.



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### 7.6.3 Test Setup Diagram



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#### 7.6.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark1:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11ac. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark2:

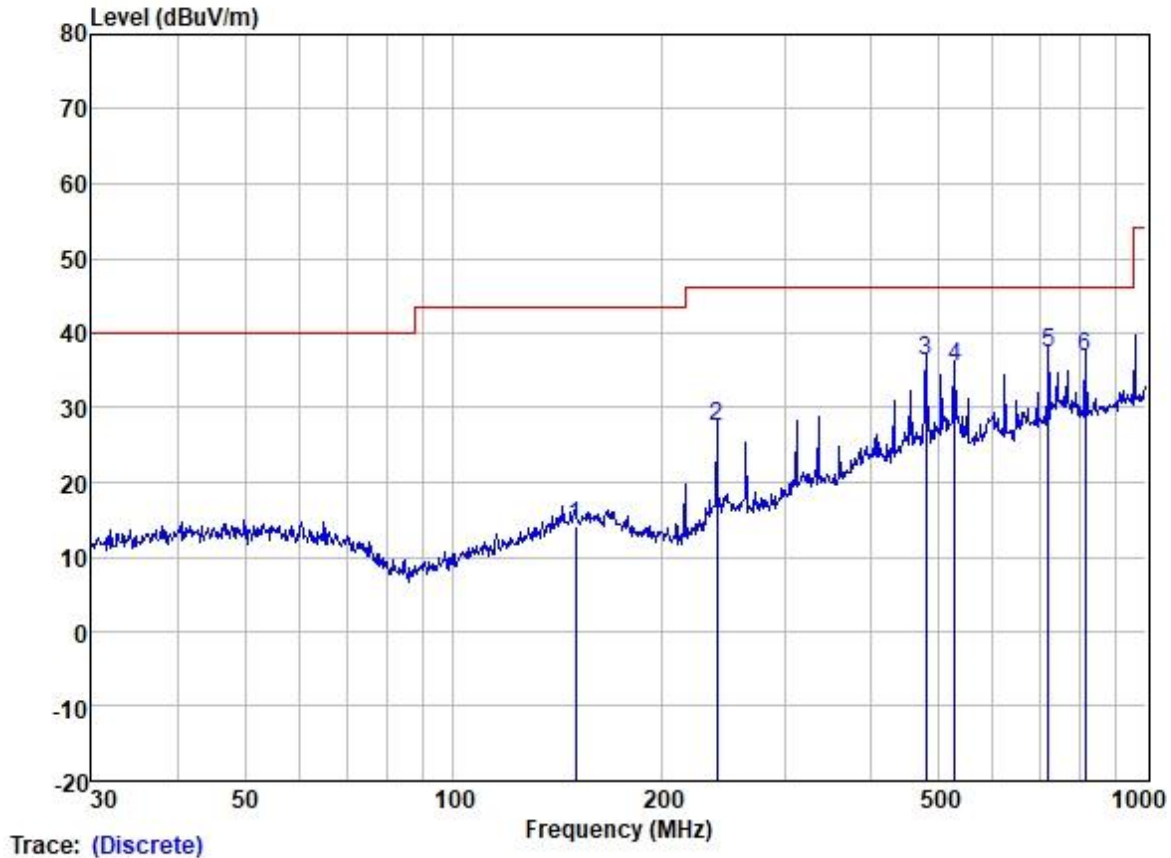
1. The disturbance below 30MHz and above 18GHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2. Pretest the EUT at antenna 1 and antenna 2 find the worst case is antenna 1 mode.
3. For the emission 30MHz to 1Ghz, lowest, middle, highest channel test performed, find the worst case is lowest channel, only record the worst case.



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Test Mode: 02; Polarity: Horizontal; Modulation:OFDM; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

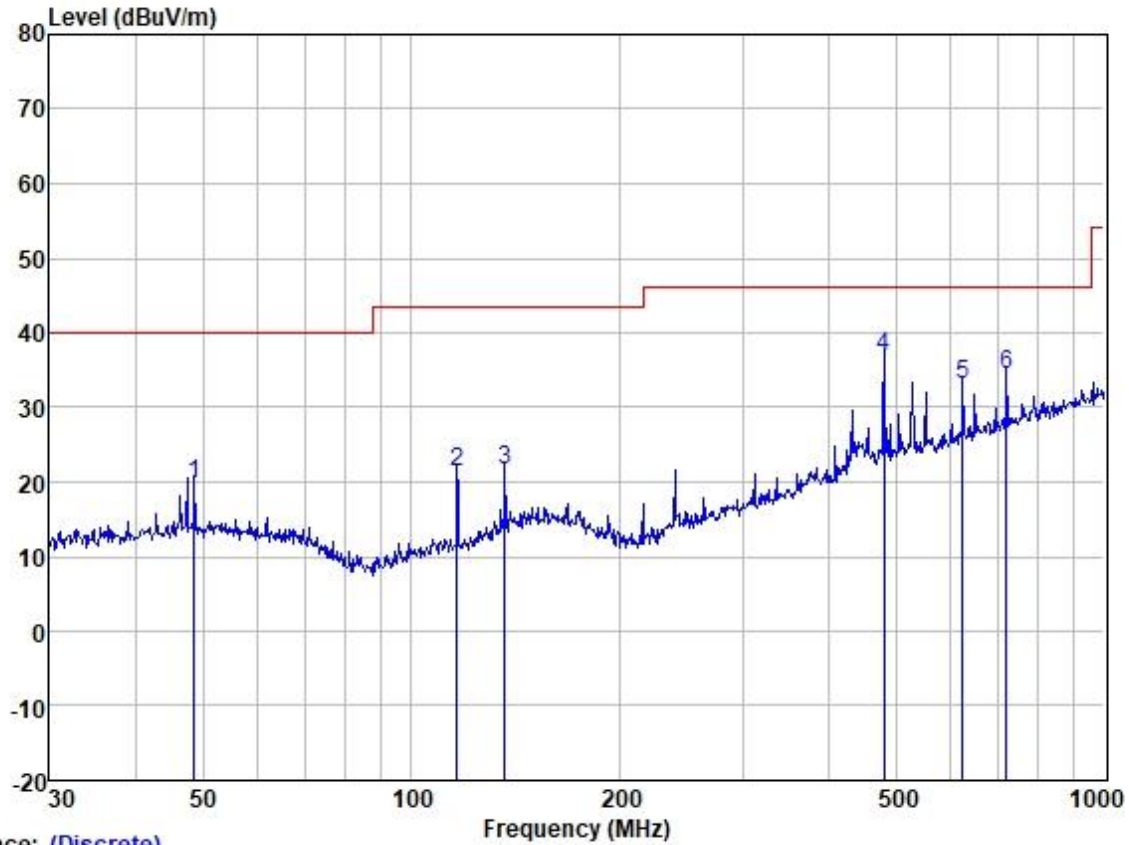
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	150.01	24.81	13.80	2.24	26.84	14.01	43.50	-29.49	HORIZONTAL	QP
2	239.99	39.39	11.90	2.81	26.66	27.44	46.00	-18.56	HORIZONTAL	QP
3	480.53	42.18	17.60	4.34	27.91	36.21	46.00	-9.79	HORIZONTAL	QP
4	528.25	40.52	18.28	4.60	28.03	35.37	46.00	-10.63	HORIZONTAL	QP
5	721.73	38.14	21.57	5.86	28.14	37.43	46.00	-8.57	HORIZONTAL	QP
6	815.97	35.81	22.77	6.23	28.01	36.80	46.00	-9.20	HORIZONTAL	QP



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Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Bandwidth: 20MHz; Channel: Low



Trace: (Discrete)

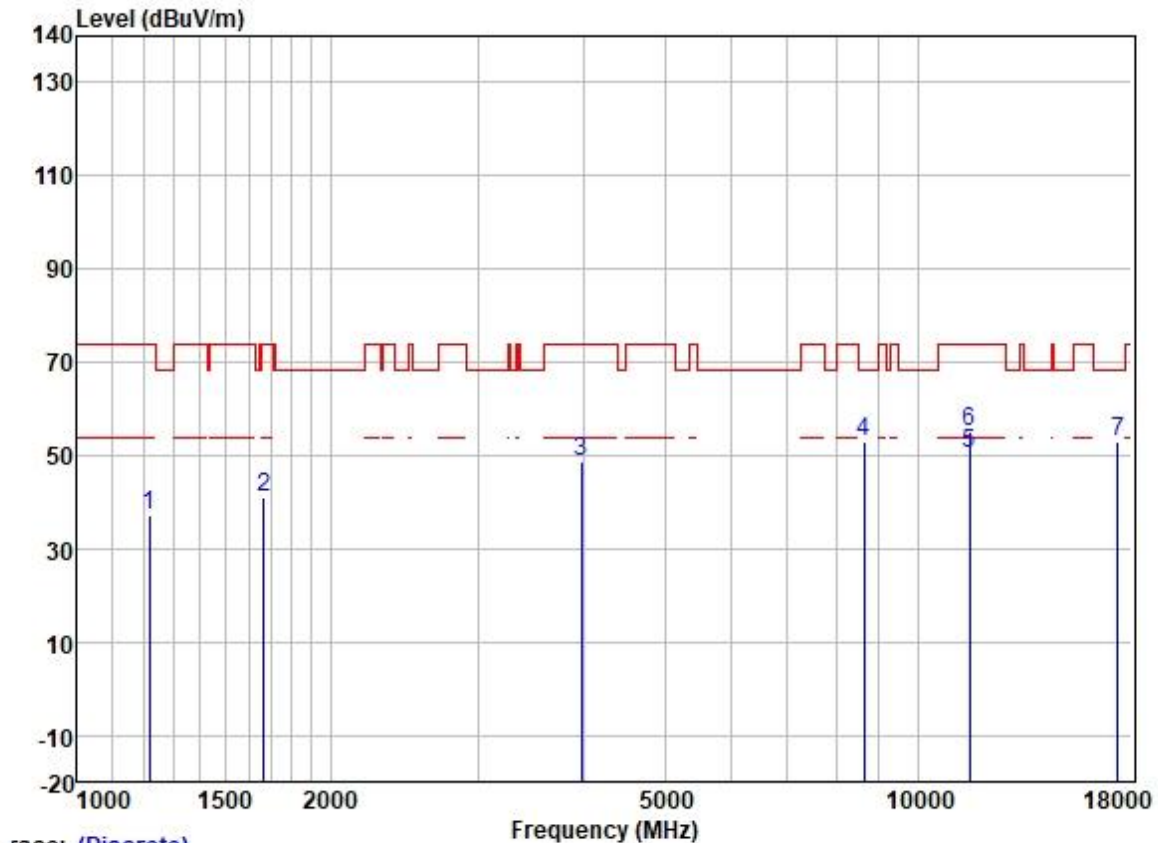
Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	48.50	31.76	13.98	1.14	27.17	19.71	40.00	-20.29	VERTICAL	QP
2	116.13	35.94	10.70	1.84	27.04	21.44	43.50	-22.06	VERTICAL	QP
3	136.46	33.56	12.85	2.05	26.95	21.51	43.50	-21.99	VERTICAL	QP
4	480.53	42.81	17.60	4.34	27.91	36.84	46.00	-9.16	VERTICAL	QP
5	625.08	35.45	20.40	5.33	28.20	32.98	46.00	-13.02	VERTICAL	QP
6	721.73	35.24	21.57	5.86	28.14	34.53	46.00	-11.47	VERTICAL	QP



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Test Mode: 02; Polarity: Horizontal; Modulation:OFDM; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1217.190	48.49	24.79	2.32	38.37	37.23	74.00	-36.77	HORIZONTAL	Peak
2	1667.951	50.30	25.66	2.80	37.91	40.85	74.00	-33.15	HORIZONTAL	Peak
3	3981.257	51.26	29.78	4.60	36.81	48.83	74.00	-25.17	HORIZONTAL	Peak
4	8638.399	46.25	37.26	6.92	37.55	52.88	68.20	-15.32	HORIZONTAL	Peak
5	11530.000	39.17	39.84	8.40	37.14	50.27	54.00	-3.73	HORIZONTAL	Average
6	11530.000	44.20	39.84	8.40	37.14	55.30	74.00	-18.70	HORIZONTAL	Peak
7	17295.000	34.93	43.21	10.24	35.33	53.05	68.20	-15.15	HORIZONTAL	Peak

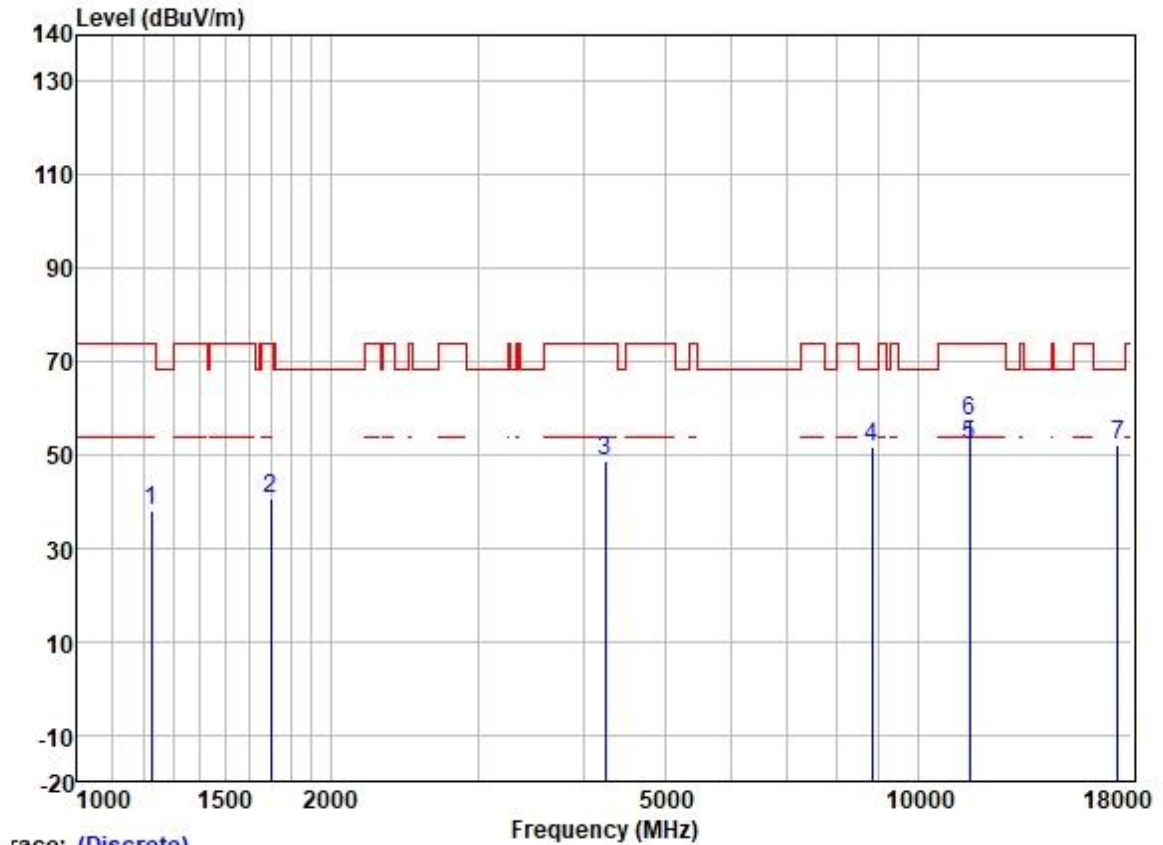


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Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Bandwidth: 20MHz; Channel: Low



Trace: (Discrete)

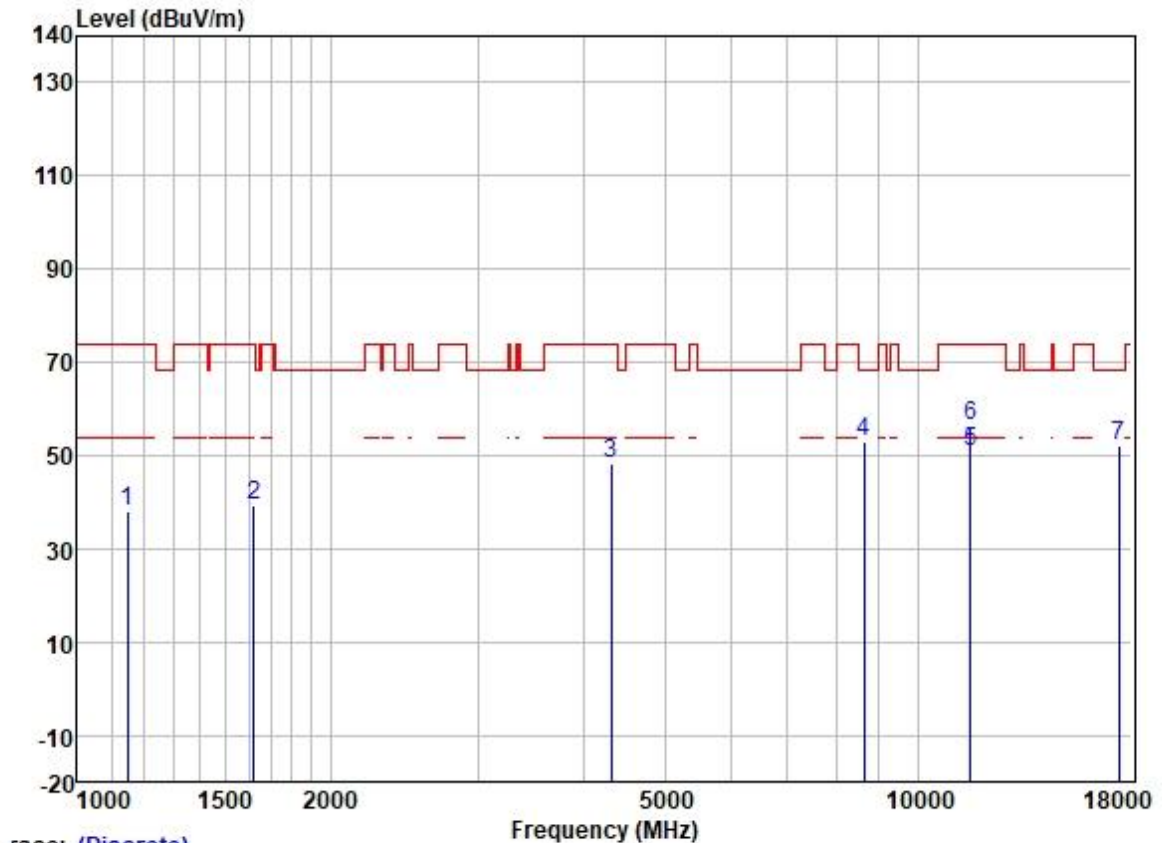
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1224.247	49.17	24.85	2.31	38.37	37.96	74.00	-36.04	VERTICAL	Peak
2	1697.129	49.95	25.71	2.80	37.89	40.57	74.00	-33.43	VERTICAL	Peak
3	4242.641	50.53	30.30	4.62	36.81	48.64	74.00	-25.36	VERTICAL	Peak
4	8814.957	44.69	37.34	7.29	37.53	51.79	68.20	-16.41	VERTICAL	Peak
5	11530.000	41.02	39.84	8.40	37.14	52.12	54.00	-1.88	VERTICAL	Average
6	11530.000	46.16	39.84	8.40	37.14	57.26	74.00	-16.74	VERTICAL	Peak
7	17295.000	33.84	43.21	10.24	35.33	51.96	68.20	-16.24	VERTICAL	Peak



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Test Mode: 02; Polarity: Horizontal; Modulation:OFDM; Bandwidth:20MHz; Channel:Middle



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1148.823	49.70	24.49	2.34	38.42	38.11	74.00	-35.89	HORIZONTAL	Peak
2	1620.431	48.90	25.60	2.80	37.95	39.35	74.00	-34.65	HORIZONTAL	Peak
3	4316.859	50.07	30.51	4.66	36.81	48.43	74.00	-25.57	HORIZONTAL	Peak
4	8638.399	46.18	37.26	6.92	37.55	52.81	68.20	-15.39	HORIZONTAL	Peak
5	11570.000	39.76	39.78	8.38	37.14	50.78	54.00	-3.22	HORIZONTAL	Average
6	11570.000	45.41	39.78	8.38	37.14	56.43	74.00	-17.57	HORIZONTAL	Peak
7	17355.000	33.59	43.40	10.39	35.32	52.06	68.20	-16.14	HORIZONTAL	Peak

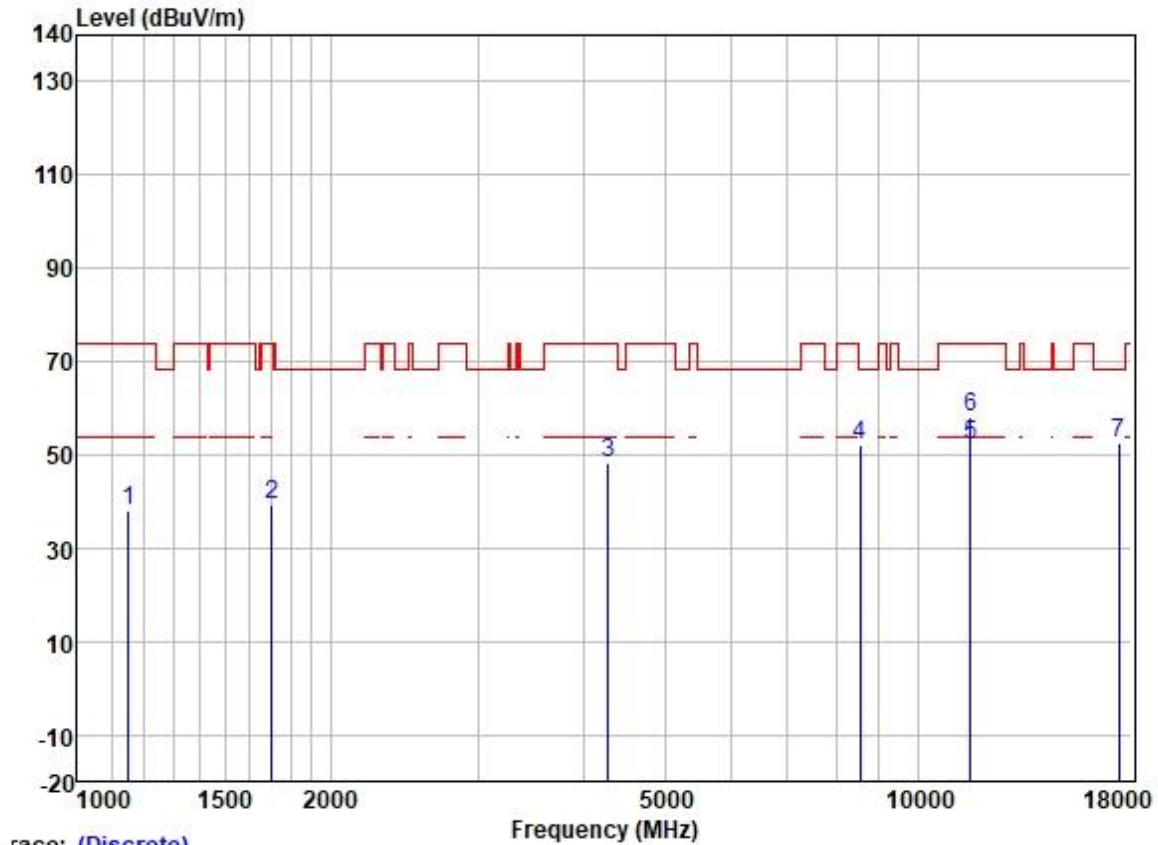


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Test Mode: 02; Polarity: Vertical; Modulation:OFDM; Bandwidth:20MHz; Channel:Middle



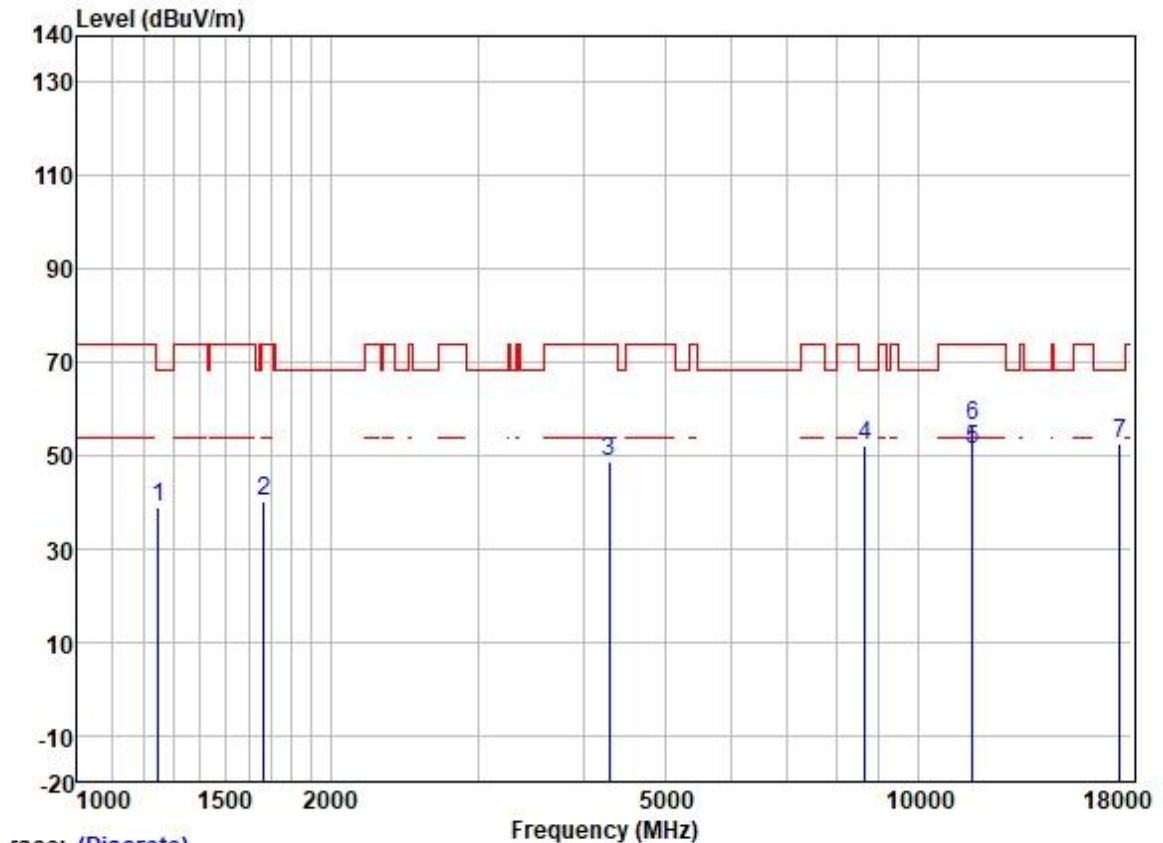
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1152.148	49.51	24.50	2.36	38.42	37.95	74.00 -36.05	VERTICAL	Peak
2	1702.042	48.87	25.72	2.80	37.89	39.50	74.00 -34.50	VERTICAL	Peak
3	4279.589	50.18	30.42	4.63	36.81	48.42	74.00 -25.58	VERTICAL	Peak
4	8539.102	45.89	37.19	6.77	37.56	52.29	68.20 -15.91	VERTICAL	Peak
5	11570.000	41.27	39.78	8.38	37.14	52.29	54.00 -1.71	VERTICAL	Average
6	11570.000	47.03	39.78	8.38	37.14	58.05	74.00 -15.95	VERTICAL	Peak
7	17355.000	34.10	43.40	10.39	35.32	52.57	68.20 -15.63	VERTICAL	Peak



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Test Mode: 02; Polarity: Horizontal; Modulation:OFDM; Bandwidth:20MHz; Channel:High



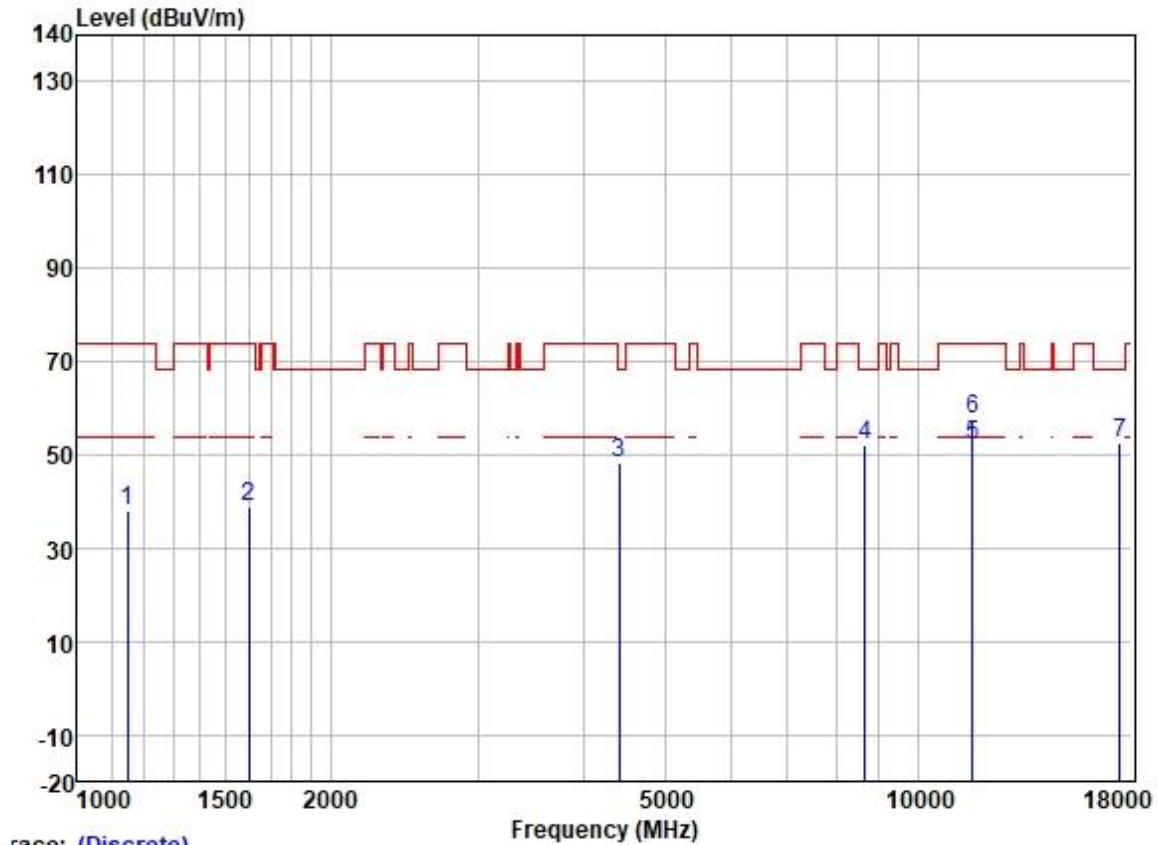
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1249.269	49.78	25.02	2.34	38.35	38.79	68.20	-29.41	HORIZONTAL Peak
2	1667.951	49.78	25.66	2.80	37.91	40.33	74.00	-33.67	HORIZONTAL Peak
3	4291.977	50.51	30.45	4.64	36.81	48.79	74.00	-25.21	HORIZONTAL Peak
4	8663.404	45.62	37.27	6.97	37.55	52.31	68.20	-15.89	HORIZONTAL Peak
5	11610.000	40.20	39.72	8.37	37.14	51.15	54.00	-2.85	HORIZONTAL Average
6	11610.000	45.48	39.72	8.37	37.14	56.43	74.00	-17.57	HORIZONTAL Peak
7	17415.000	33.47	43.74	10.65	35.32	52.54	68.20	-15.66	HORIZONTAL Peak



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Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1148.823	49.43	24.49	2.34	38.42	37.84	74.00	-36.16	VERTICAL Peak
2	1601.804	48.59	25.58	2.80	37.98	38.99	74.00	-35.01	VERTICAL Peak
3	4417.841	49.78	30.70	4.74	36.81	48.41	68.20	-19.79	VERTICAL Peak
4	8663.404	45.60	37.27	6.97	37.55	52.29	68.20	-15.91	VERTICAL Peak
5	11610.000	41.37	39.72	8.37	37.14	52.32	54.00	-1.68	VERTICAL Average
6	11610.000	46.84	39.72	8.37	37.14	57.79	74.00	-16.21	VERTICAL Peak
7	17415.000	33.56	43.74	10.65	35.32	52.63	68.20	-15.57	VERTICAL Peak



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**7.7 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.7.1 E.U.T. Operation**

Operating Environment:

Temperature: 26.2 °C Humidity: 62.5 % RH Atmospheric Pressure: 1010 mbar

**7.7.2 Test Mode Description**

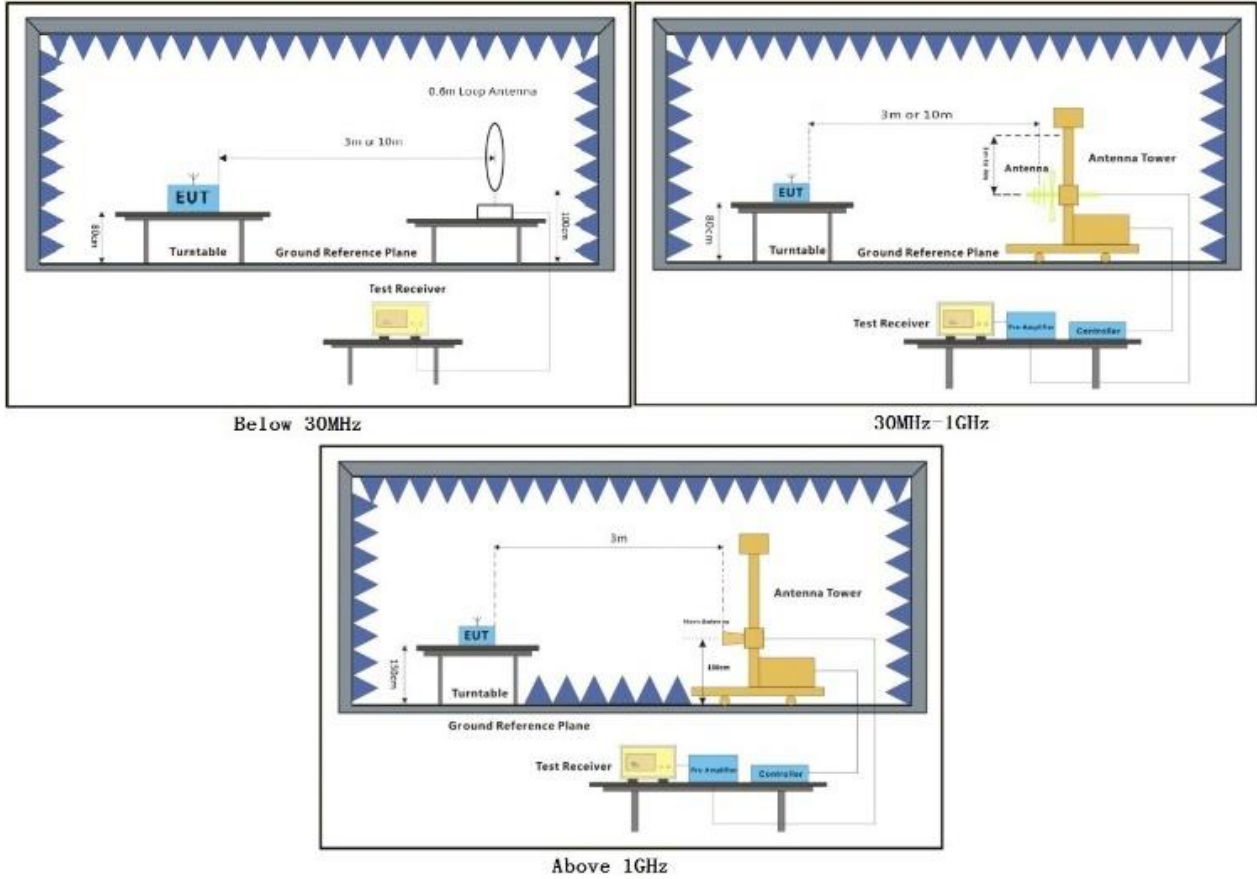
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.



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### 7.7.3 Test Setup Diagram



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**7.7.4 Measurement Procedure and Data**

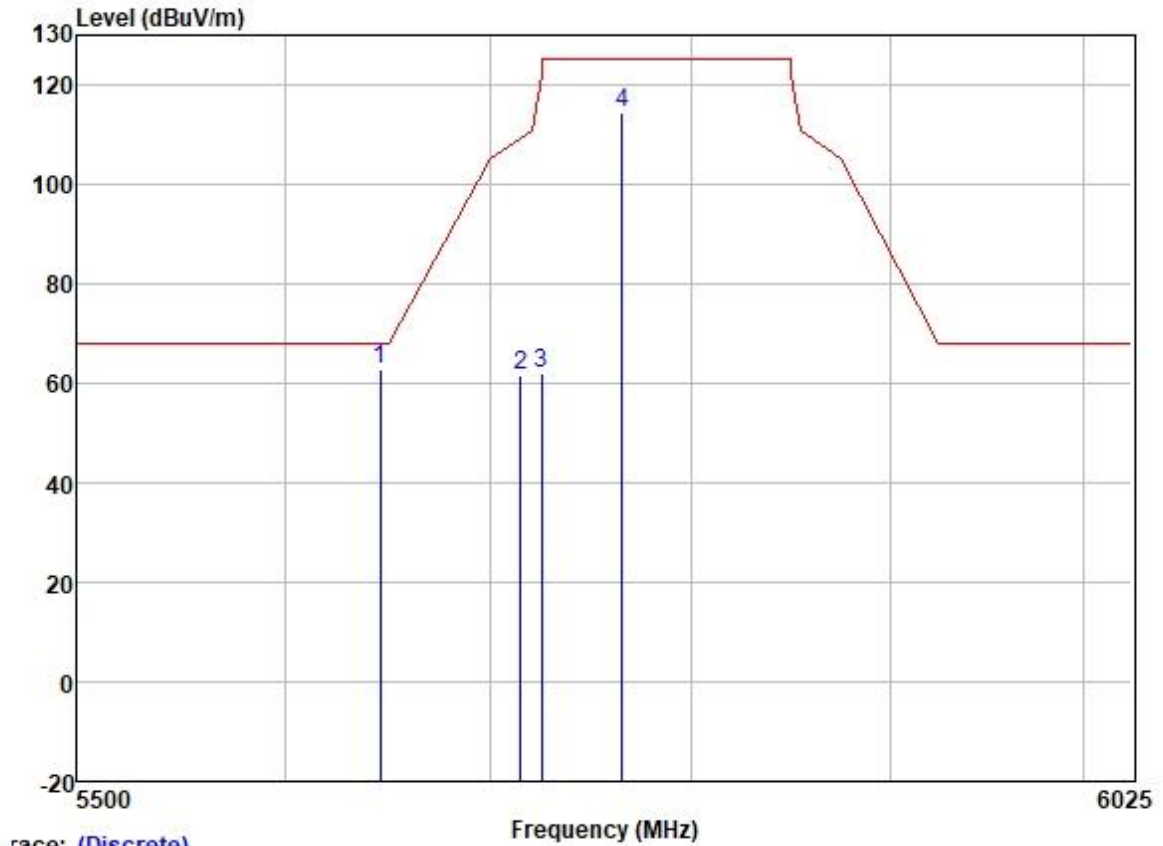
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2: Pretest the EUT at antenna 1 and antenna 2 find the worst case is antenna 1 mode.



Test Mode: 02; Polarity: Horizontal; Modulation:OFDM; Bandwidth:20MHz; Channel:Low



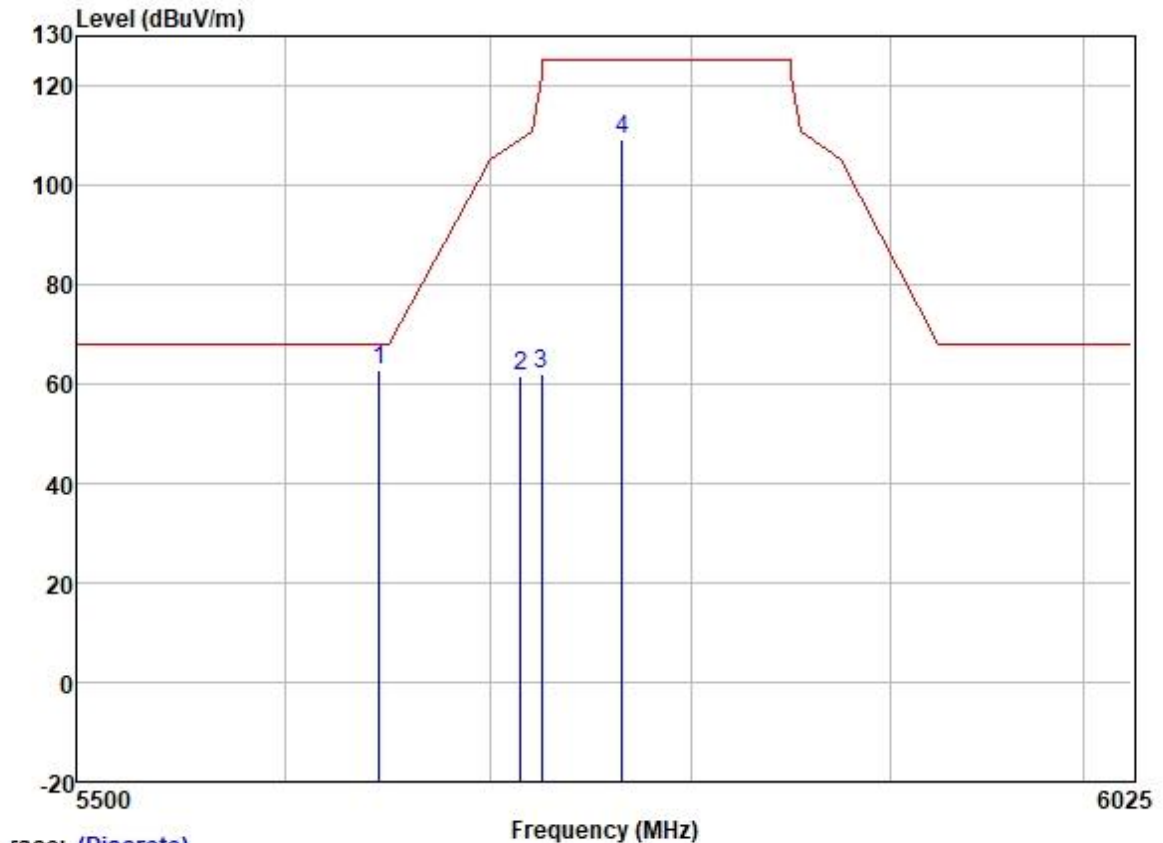
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5645.811	61.25	31.95	6.35	36.89	62.66	68.20	-5.54	HORIZONTAL Peak
2	5715.000	60.13	32.04	6.33	36.89	61.61	109.40	-47.79	HORIZONTAL Peak
3	5725.000	60.71	32.07	6.25	36.89	62.14	122.20	-60.06	HORIZONTAL Peak
4	5765.000	113.20	32.13	6.15	36.89	114.59	125.20	-10.61	HORIZONTAL Peak



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Test Mode: 02; Polarity: Vertical; Modulation:OFDM; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

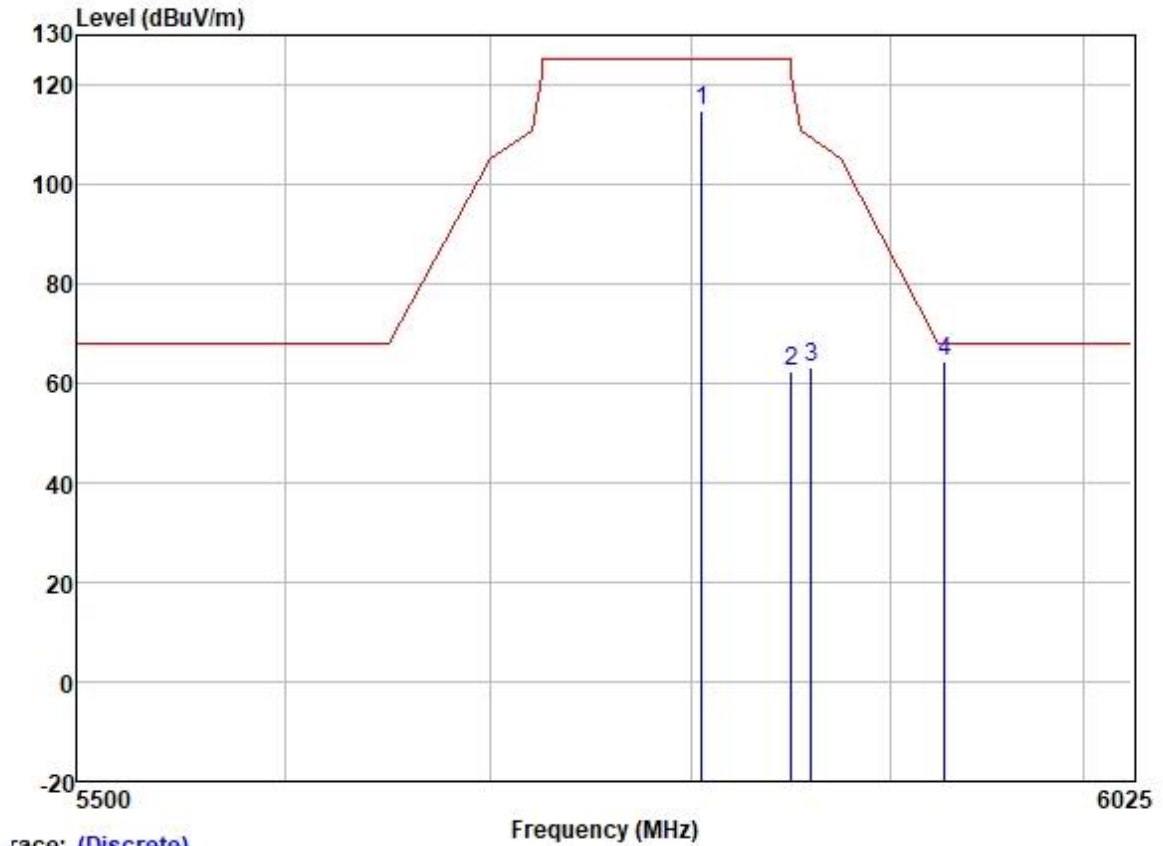
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5645.534	61.26	31.95	6.35	36.89	62.67	68.20	-5.53	VERTICAL Peak
2	5715.000	60.31	32.04	6.33	36.89	61.79	109.40	-47.61	VERTICAL Peak
3	5725.000	60.75	32.07	6.25	36.89	62.18	122.20	-60.02	VERTICAL Peak
4	5765.000	107.63	32.13	6.15	36.89	109.02	125.20	-16.18	VERTICAL Peak



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Test Mode: 02; Polarity: Horizontal; Modulation:OFDM; Bandwidth:20MHz; Channel:High



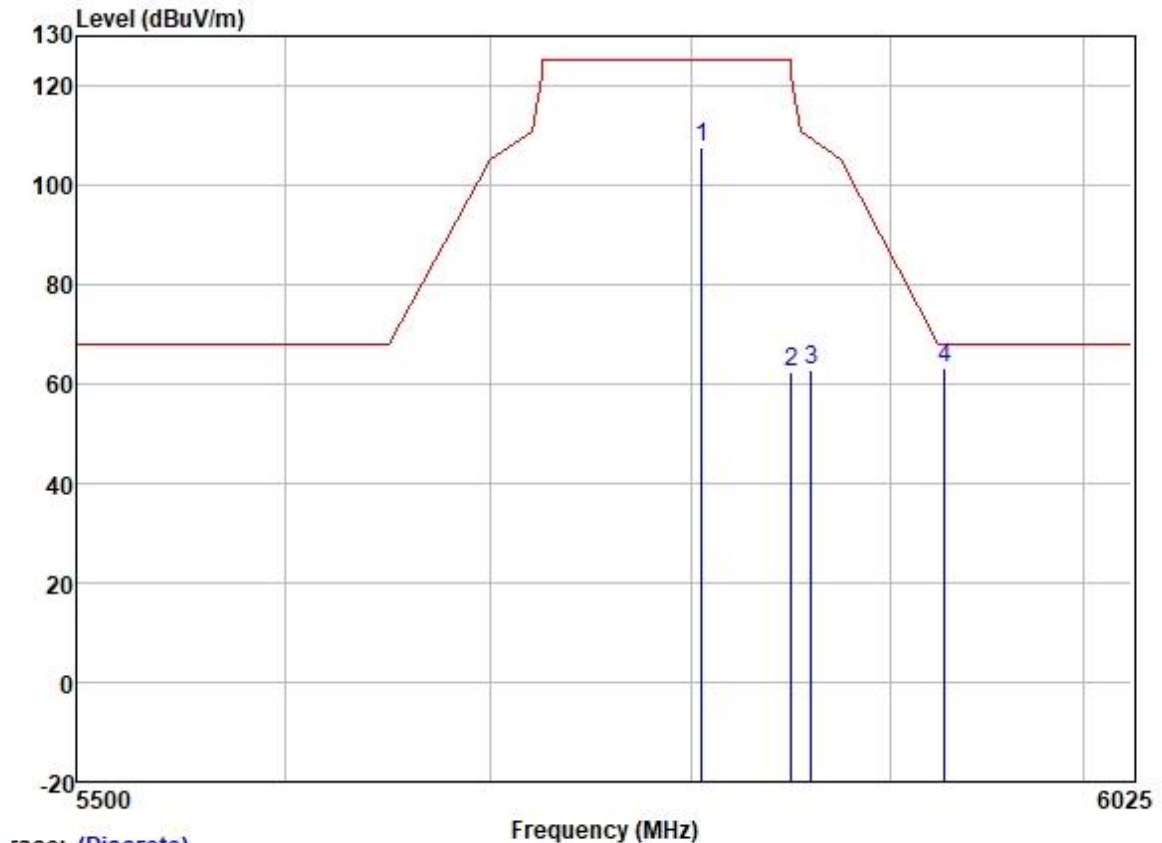
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5805.000	113.43	32.19	6.10	36.89	114.83	125.20	-10.37	HORIZONTAL Peak
2	5850.000	61.18	32.25	6.00	36.90	62.53	122.20	-59.67	HORIZONTAL Peak
3	5860.000	62.02	32.27	5.96	36.90	63.35	109.40	-46.05	HORIZONTAL Peak
4	5928.219	62.89	32.34	6.00	36.90	64.33	68.20	-3.87	HORIZONTAL Peak



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Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5805.000	106.28	32.19	6.10	36.89	107.68	125.20	-17.52	VERTICAL Peak
2	5850.000	60.94	32.25	6.00	36.90	62.29	122.20	-59.91	VERTICAL Peak
3	5860.000	61.46	32.27	5.96	36.90	62.79	109.40	-46.61	VERTICAL Peak
4	5928.062	61.89	32.34	6.00	36.90	63.33	68.20	-4.87	VERTICAL Peak



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## 8 Test Setup Photo

Refer to Appendix \_Setup Photo for GZCR2110021196AT.



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix \_ Photographs of EUT Constructional Details for GZCR2110021196AT.



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## 10 Appendix

### ANT: ANT1

#### 1. Duty Cycle

##### 1.1 Test Result

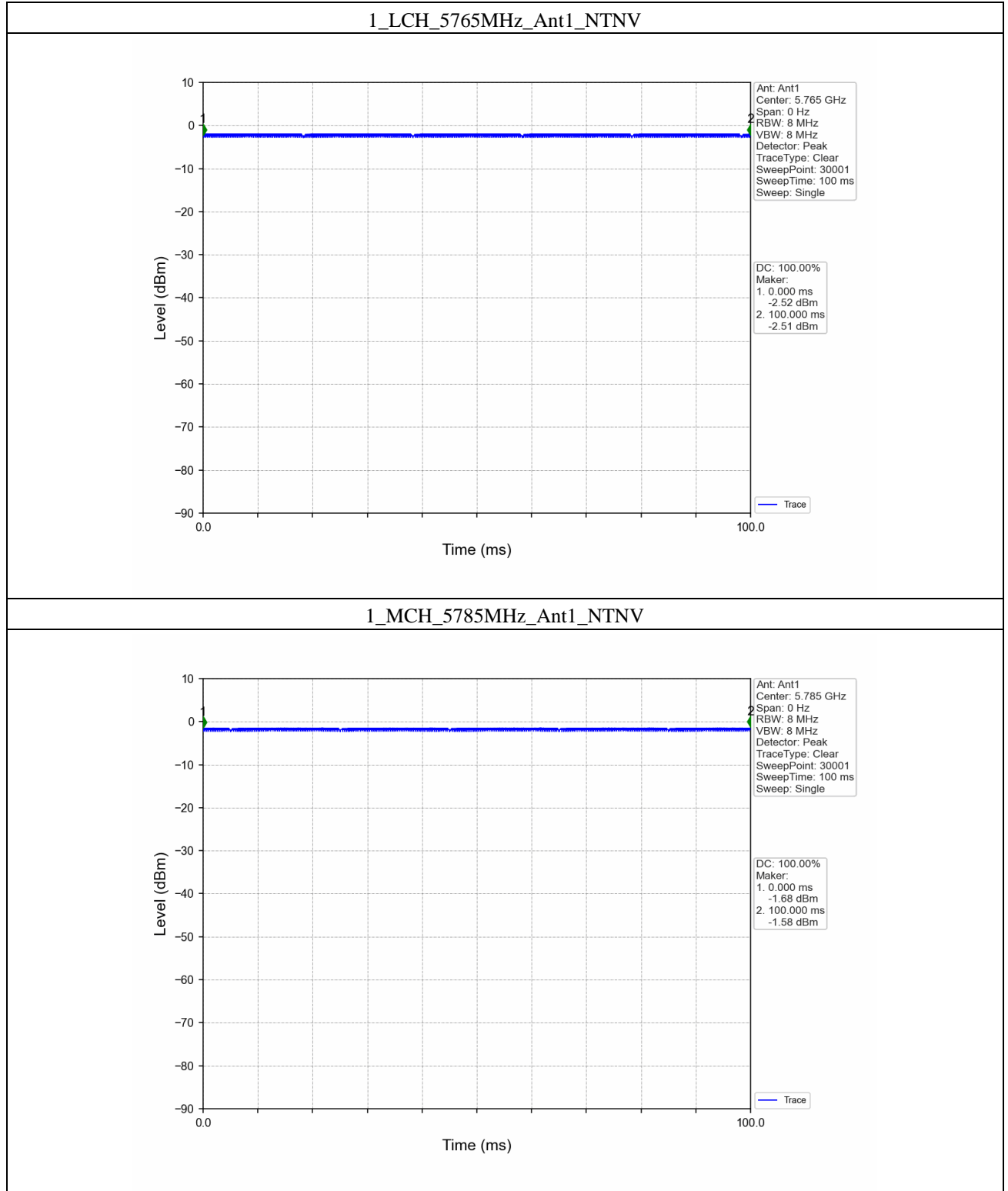
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1	SISO	5765	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5805	100.000	100.000	100.00	0.00	0.00



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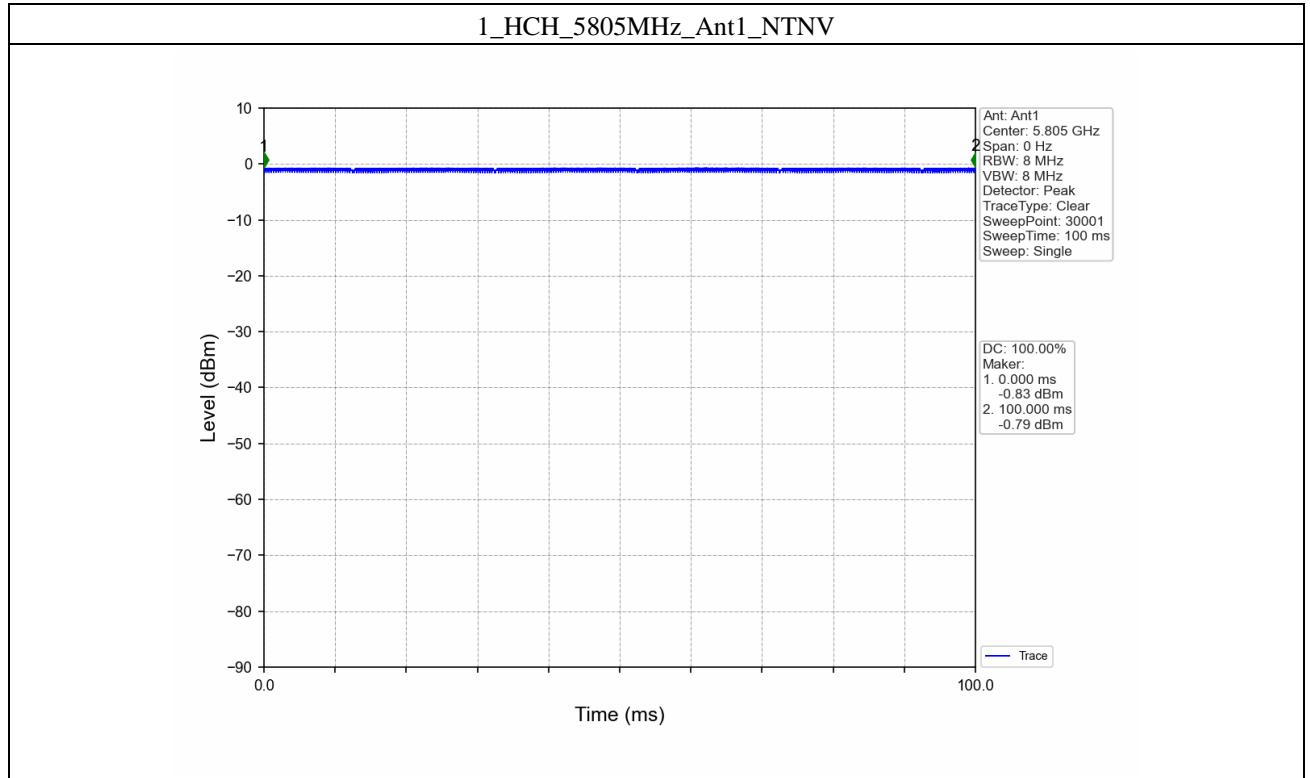
### 1.2 Test Graph



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1	SISO	5765	1	3.158	Pass
		5785	1	3.234	Pass
		5805	1	3.257	Pass

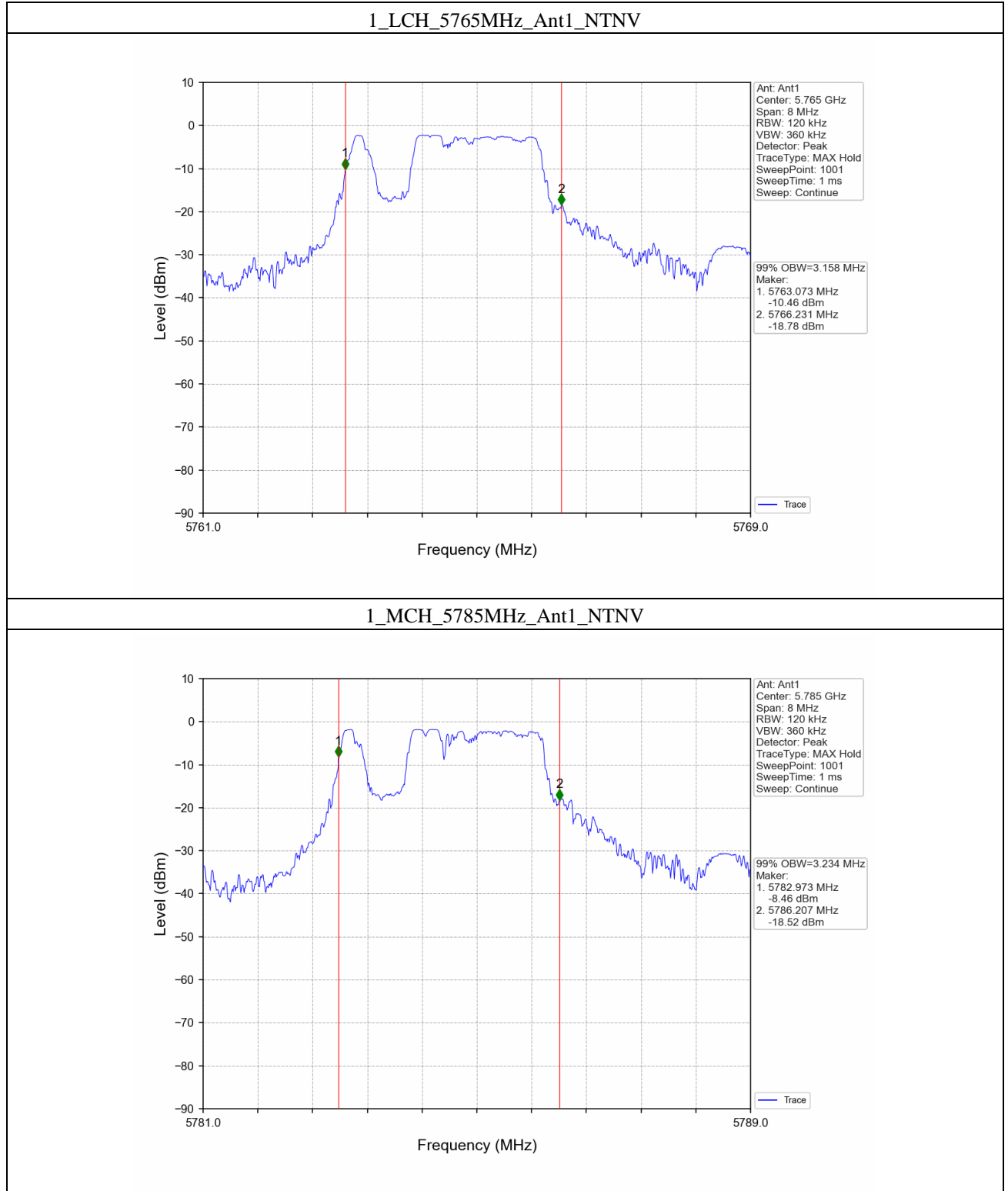


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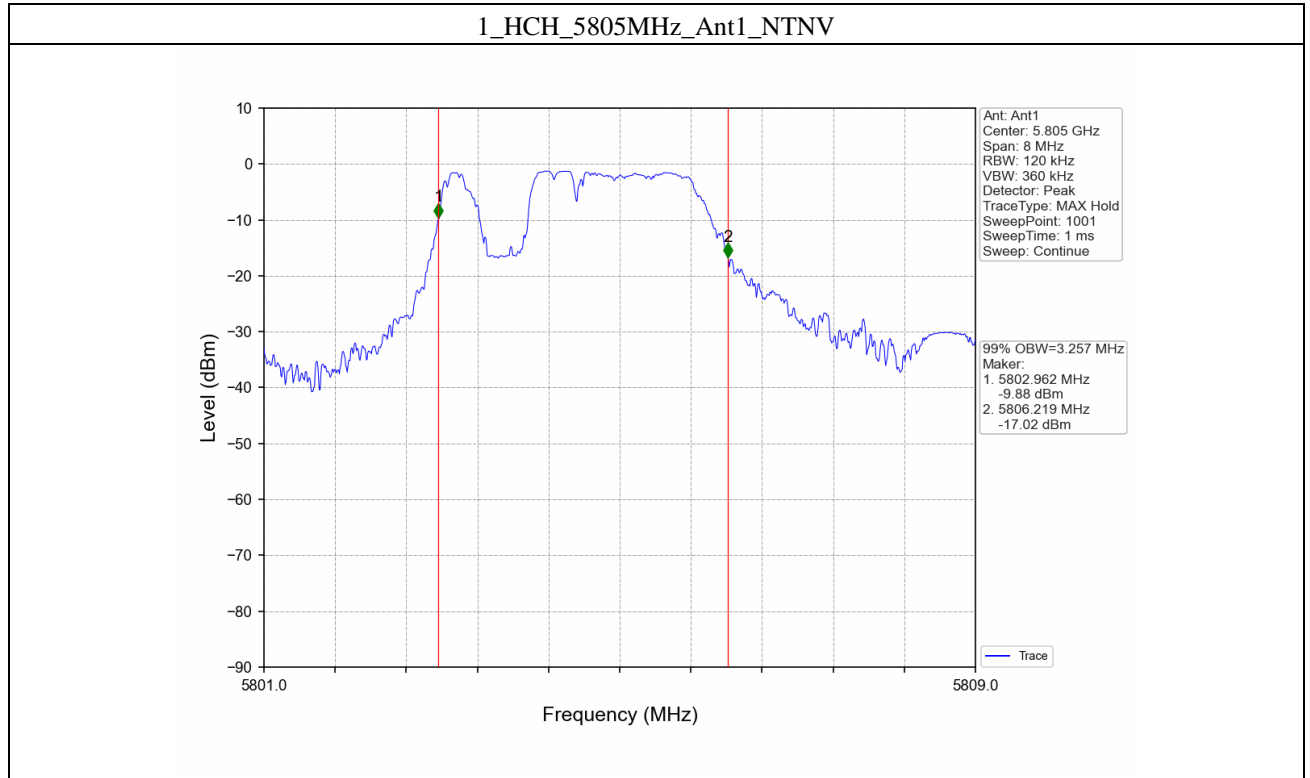
### 2.1.2 Test Graph



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## 2.2 6dB BW

### 2.2.1 Test Result

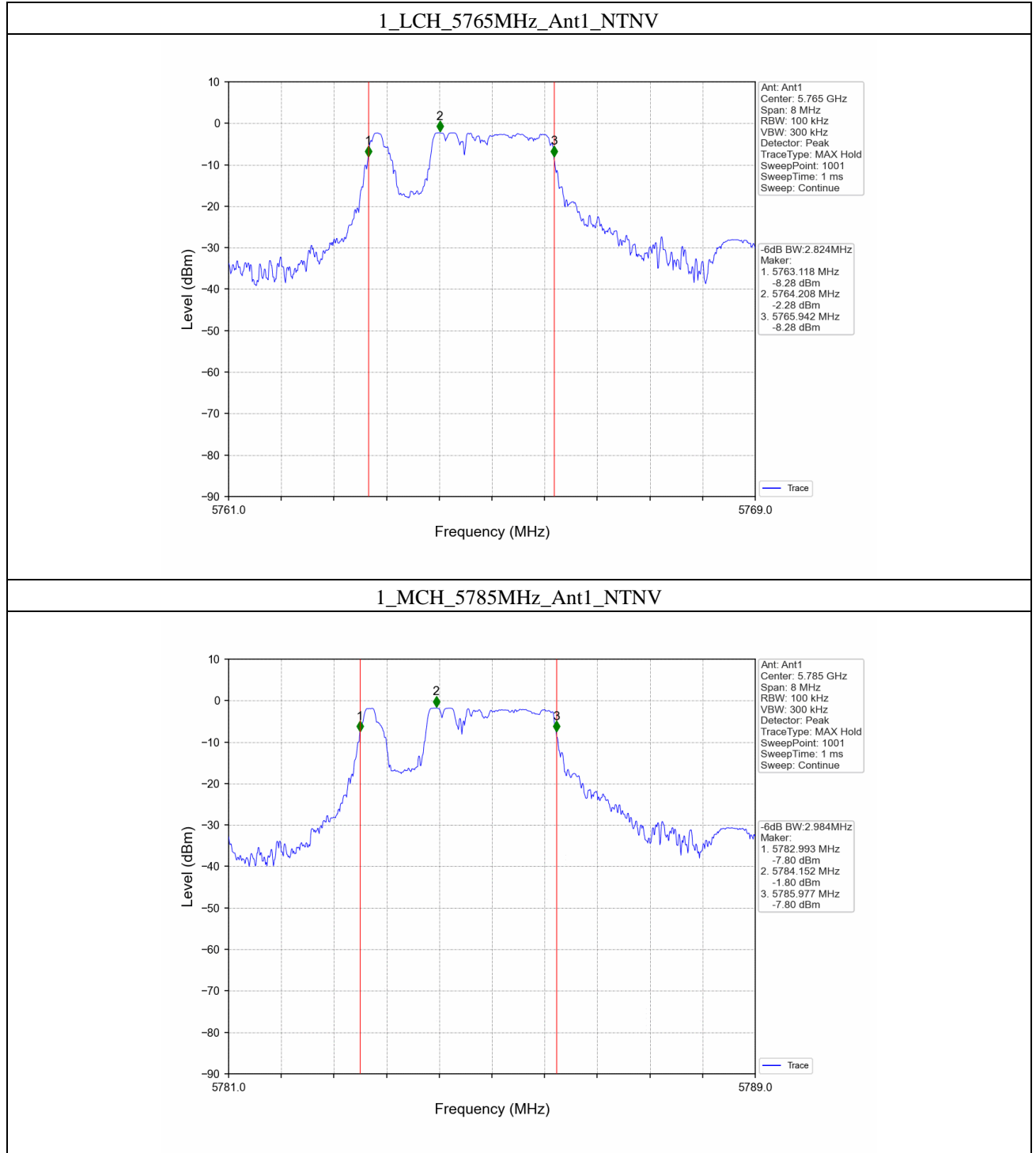
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1	SISO	5765	1	2.824	$\geq 0.5$	Pass
		5785	1	2.984	$\geq 0.5$	Pass
		5805	1	2.937	$\geq 0.5$	Pass



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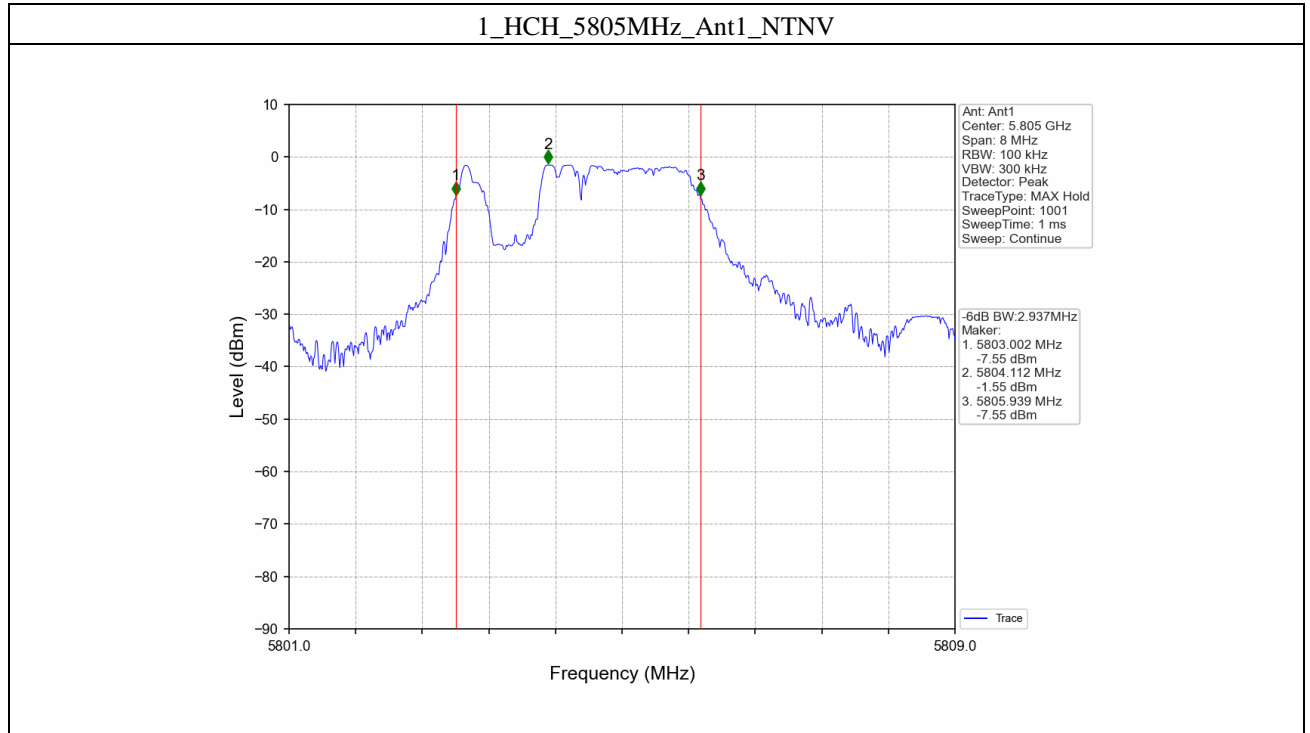
### 2.2.2 Test Graph



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1	SISO	5765	-2.34	<=30	Pass
		5785	-3.36	<=30	Pass
		5805	-1.98	<=30	Pass



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## 4. Maximum Power Spectral Density

### 4.1 PSD-Band3

#### 4.1.1 Test Result

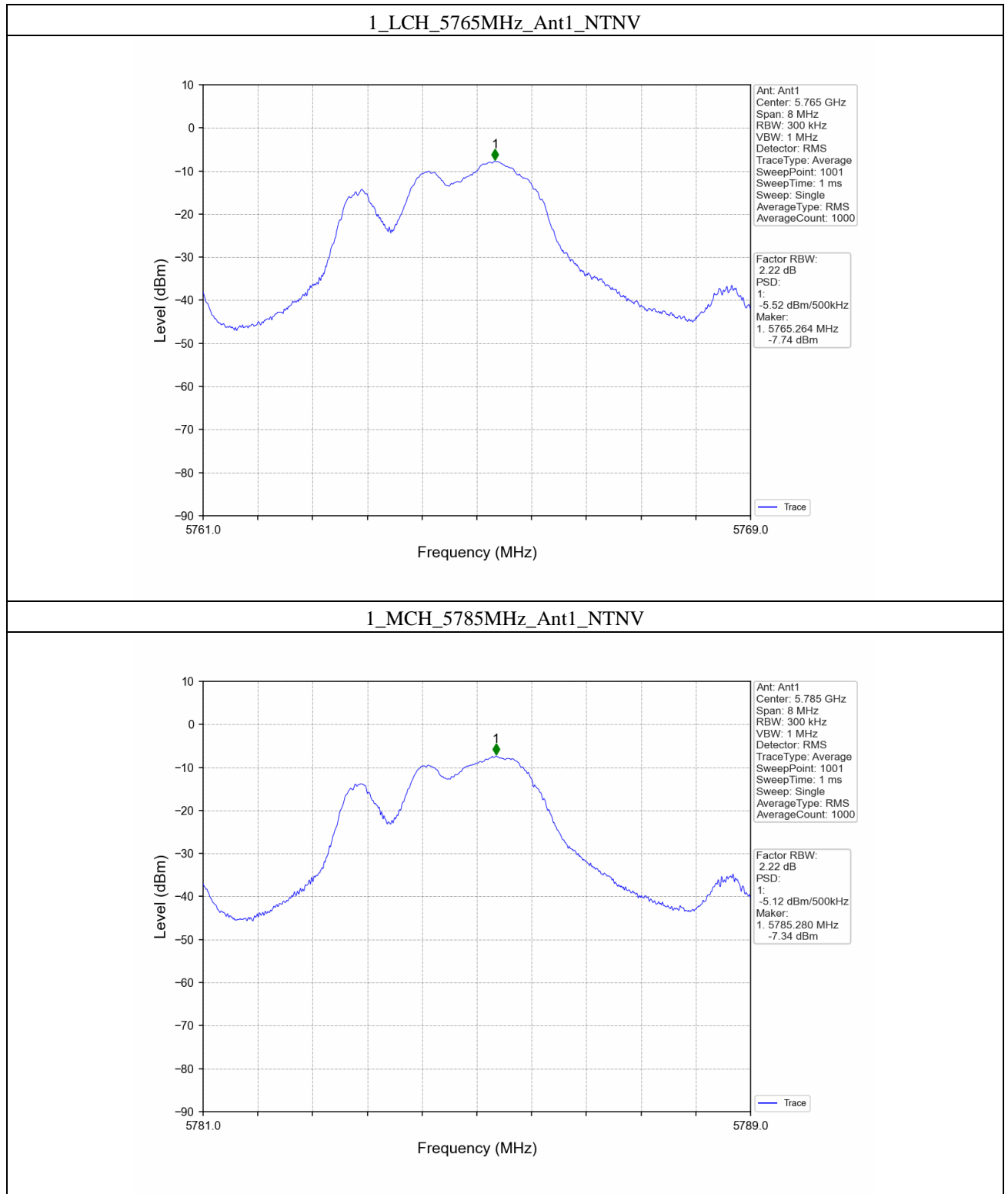
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
1	SISO	5765	-5.52	<=30	Pass
		5785	-5.12	<=30	Pass
		5805	-5.80	<=30	Pass



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### 4.1.2 Test Graph

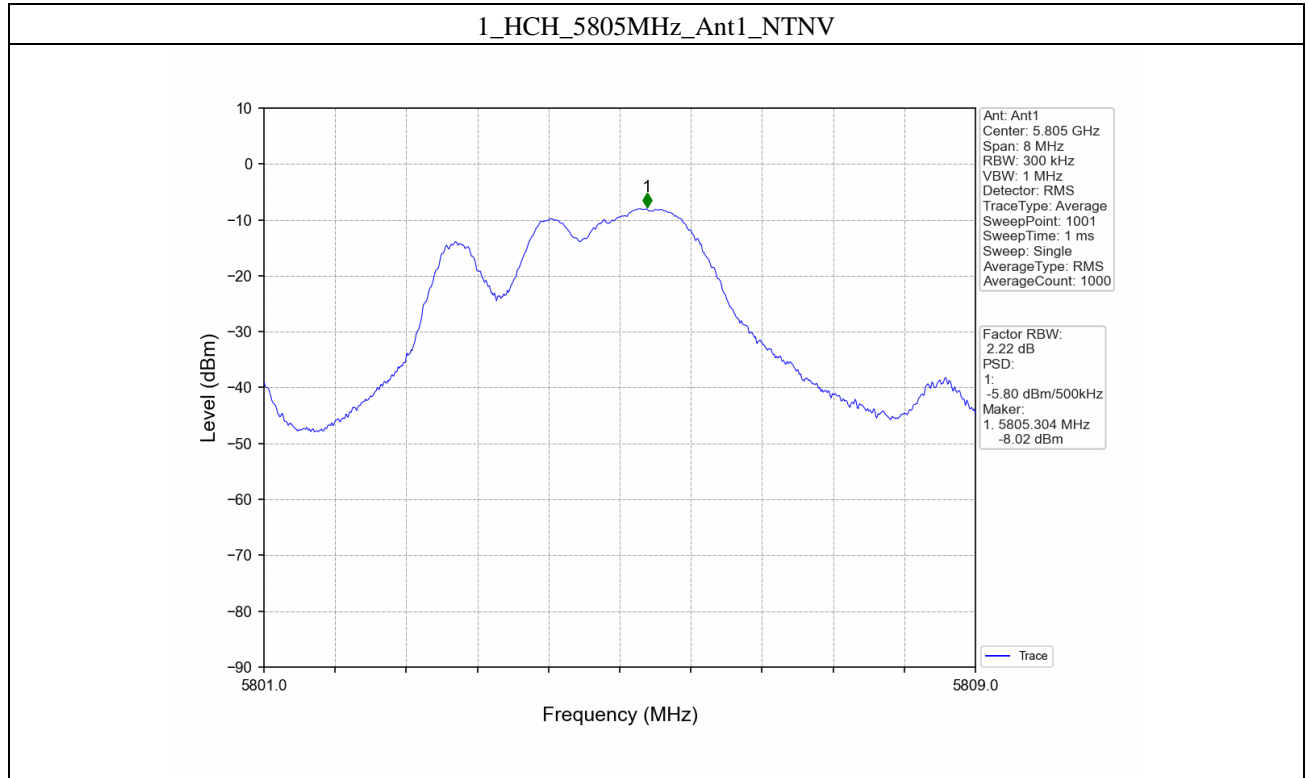


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## ANT: ANT2

### 1. Duty Cycle

#### 1.1 Ant 2

##### 1.1.1 Test Result

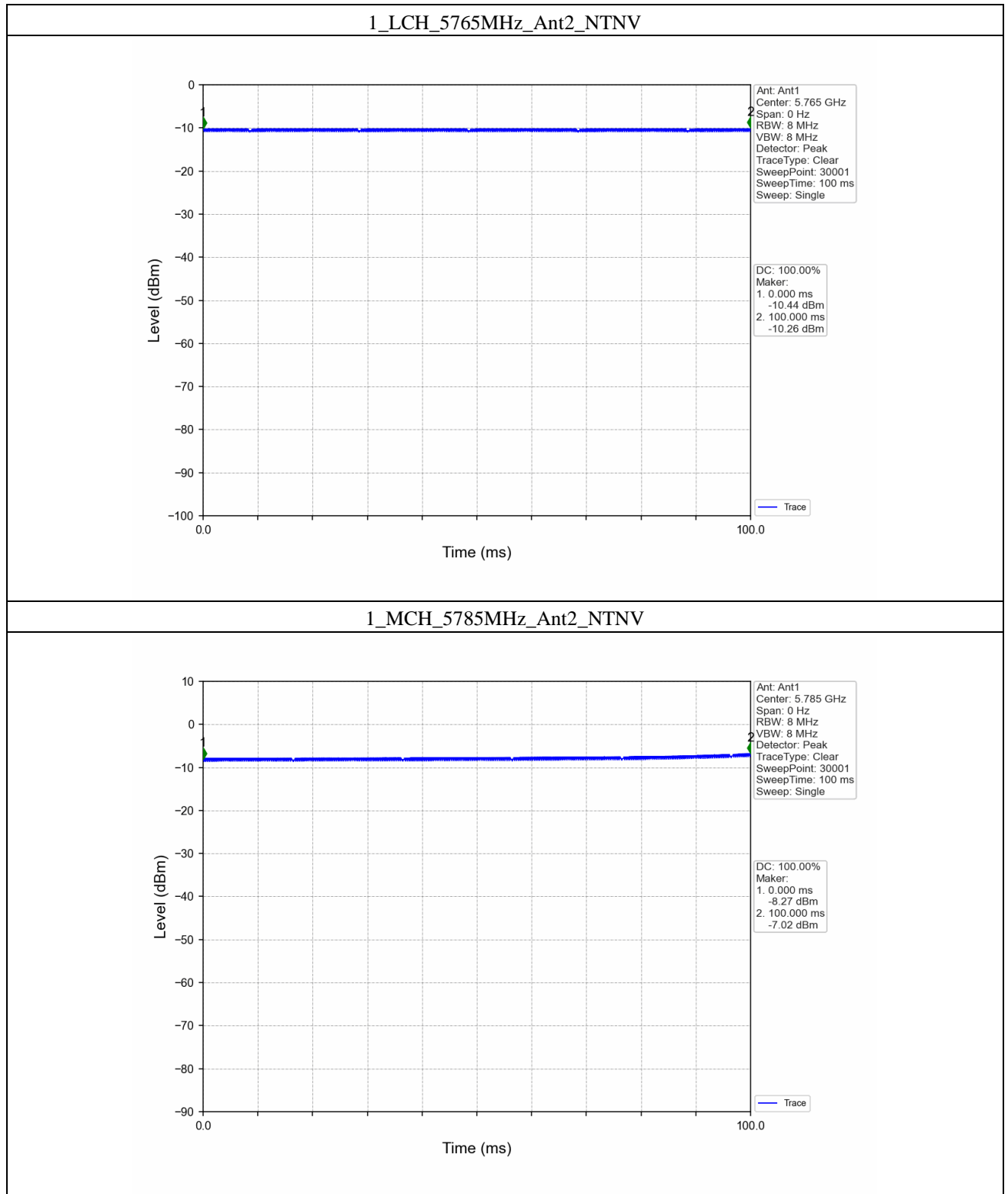
Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1	SISO	5765	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5805	100.000	100.000	100.00	0.00	0.00



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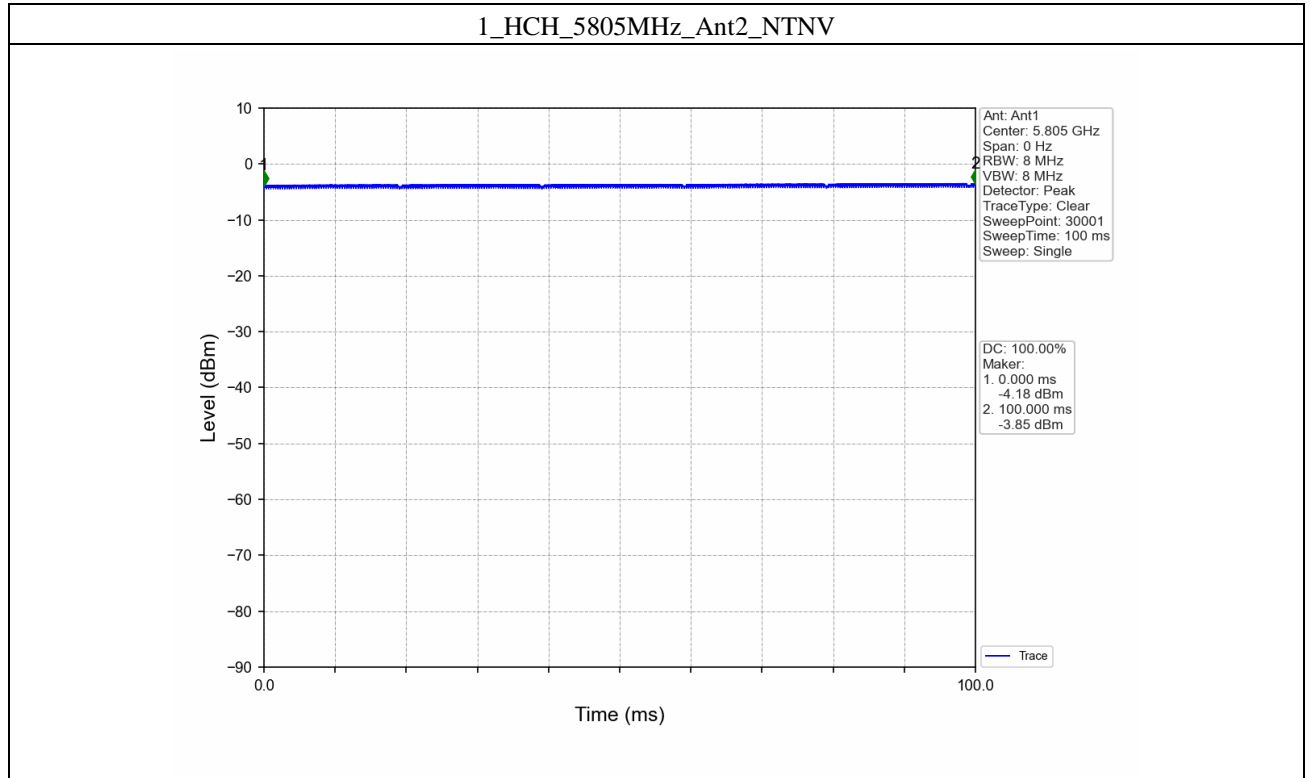
### 1.1.2 Test Graph



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

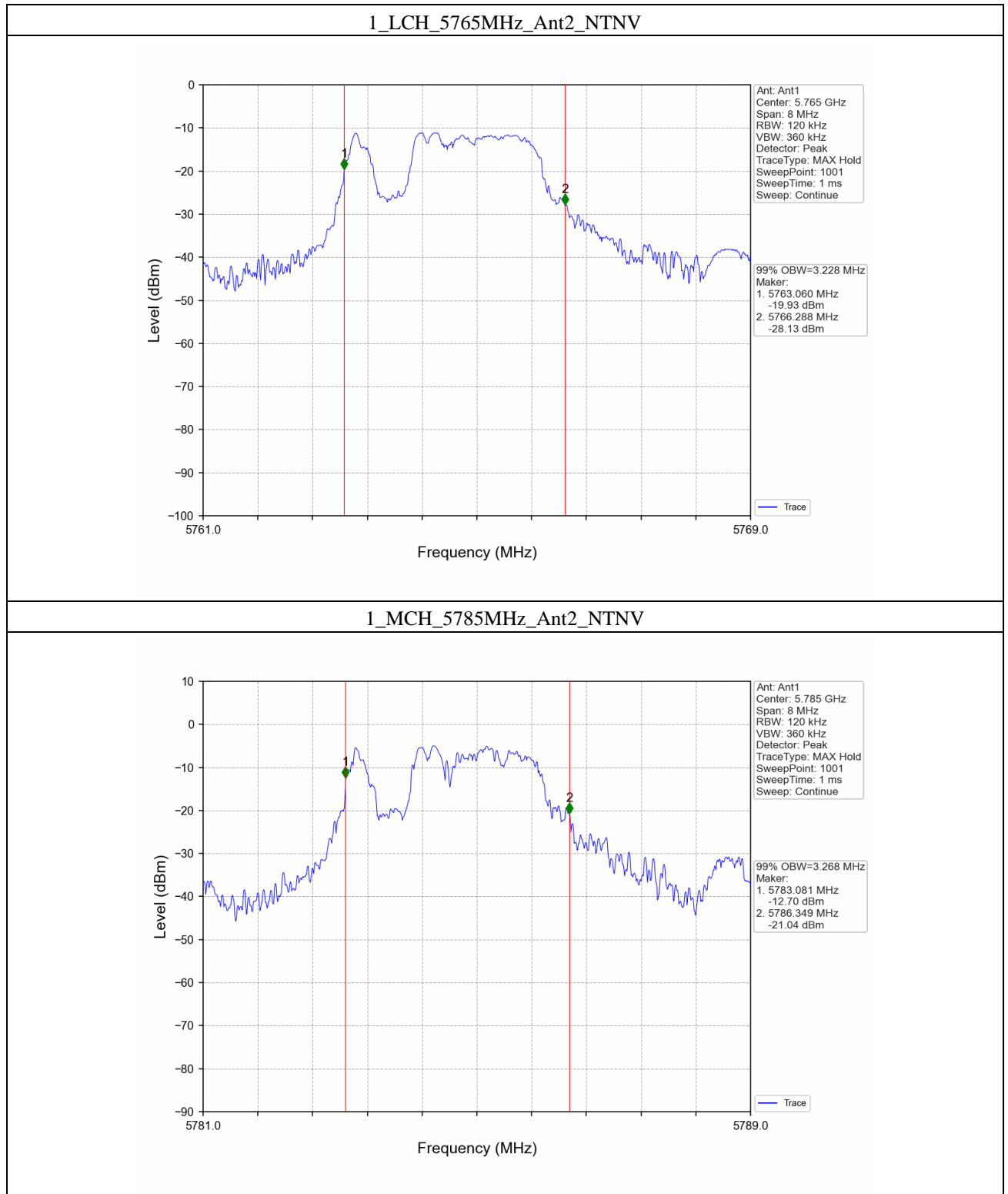
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1	SISO	5765	2	3.228	Pass
		5785	2	3.268	Pass
		5805	2	3.093	Pass



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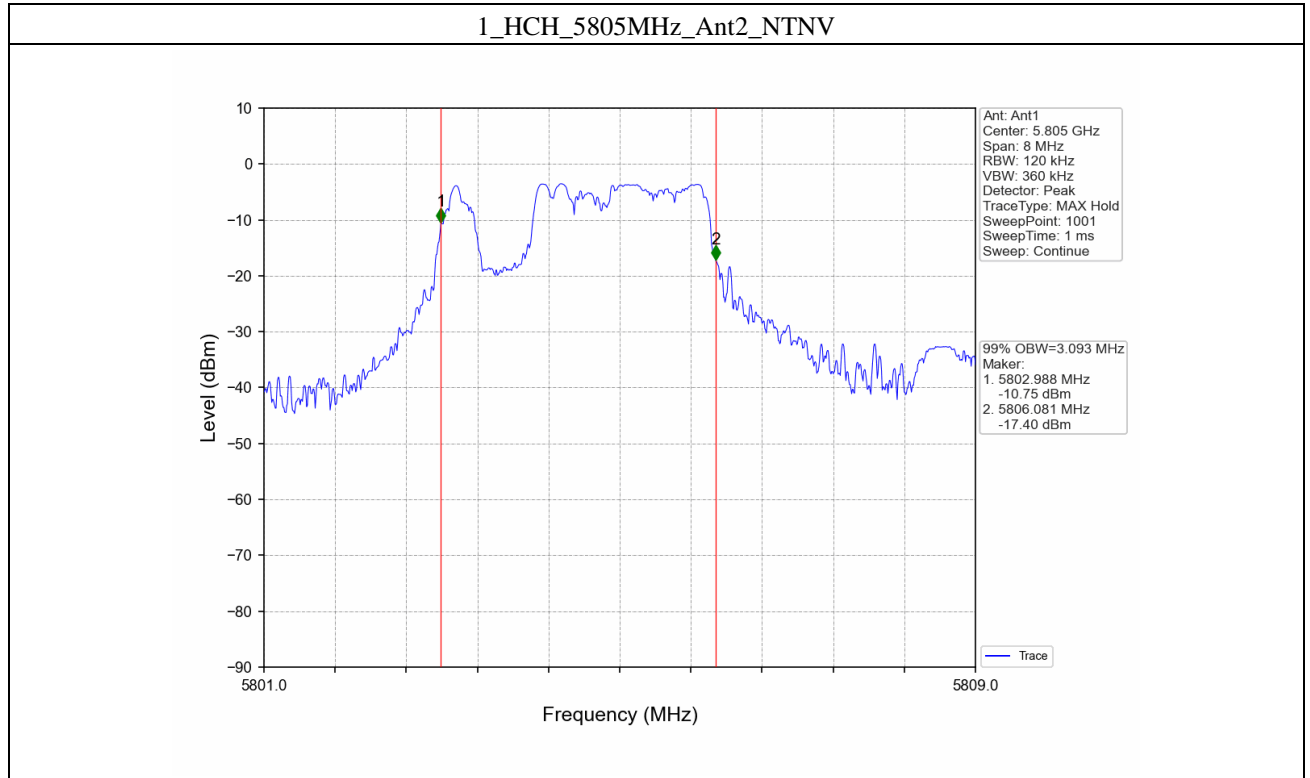
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### 2.1.2 Test Graph



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1	SISO	5765	2	2.816	$\geq 0.5$	Pass
		5785	2	2.804	$\geq 0.5$	Pass
		5805	2	2.976	$\geq 0.5$	Pass

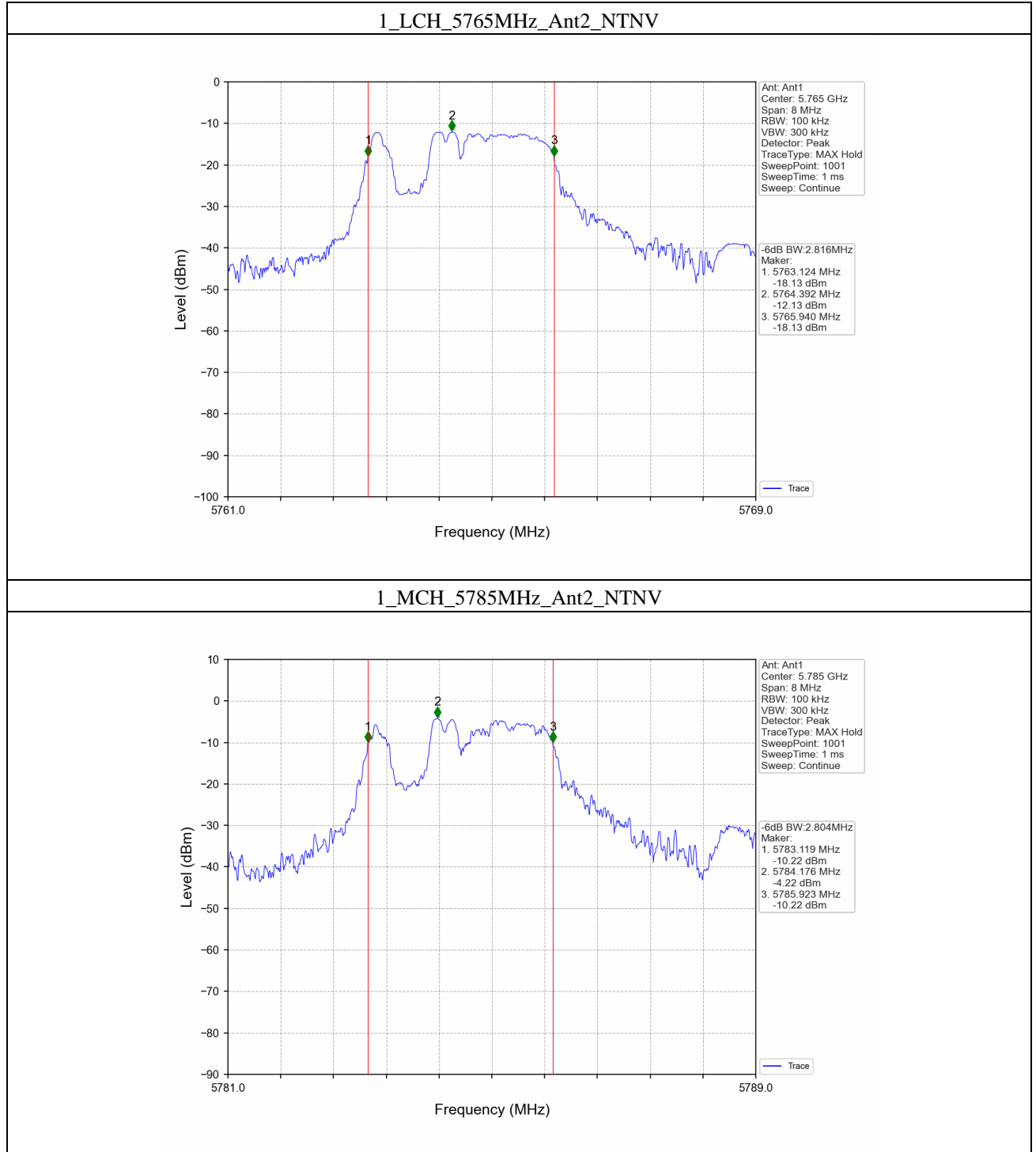


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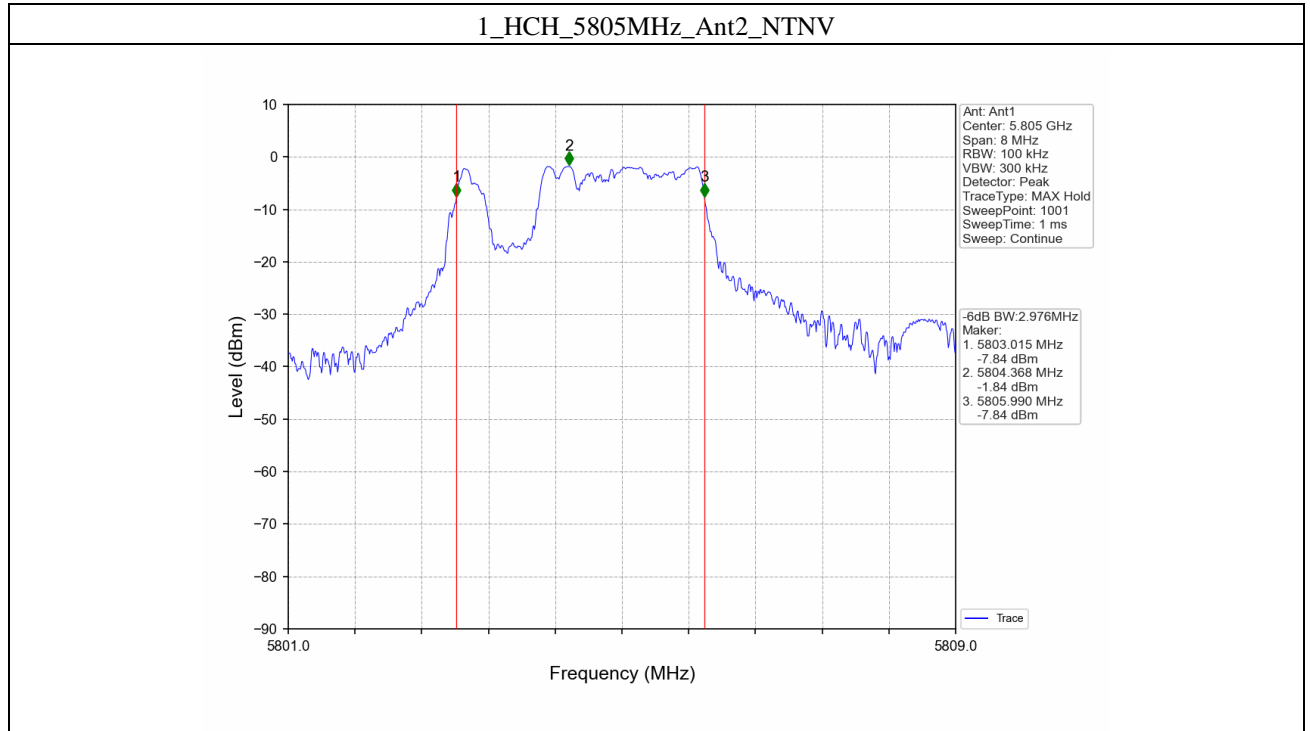
### 2.2.2 Test Graph



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1	SISO	5765	-3.09	<=30	Pass
		5785	-5.14	<=30	Pass
		5805	-6.70	<=30	Pass



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## 4. Maximum Power Spectral Density

### 4.1 PSD-Band3

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
1	SISO	5765	-7.35	<=30	Pass
		5785	-15.92	<=30	Pass
		5805	-7.79	<=30	Pass

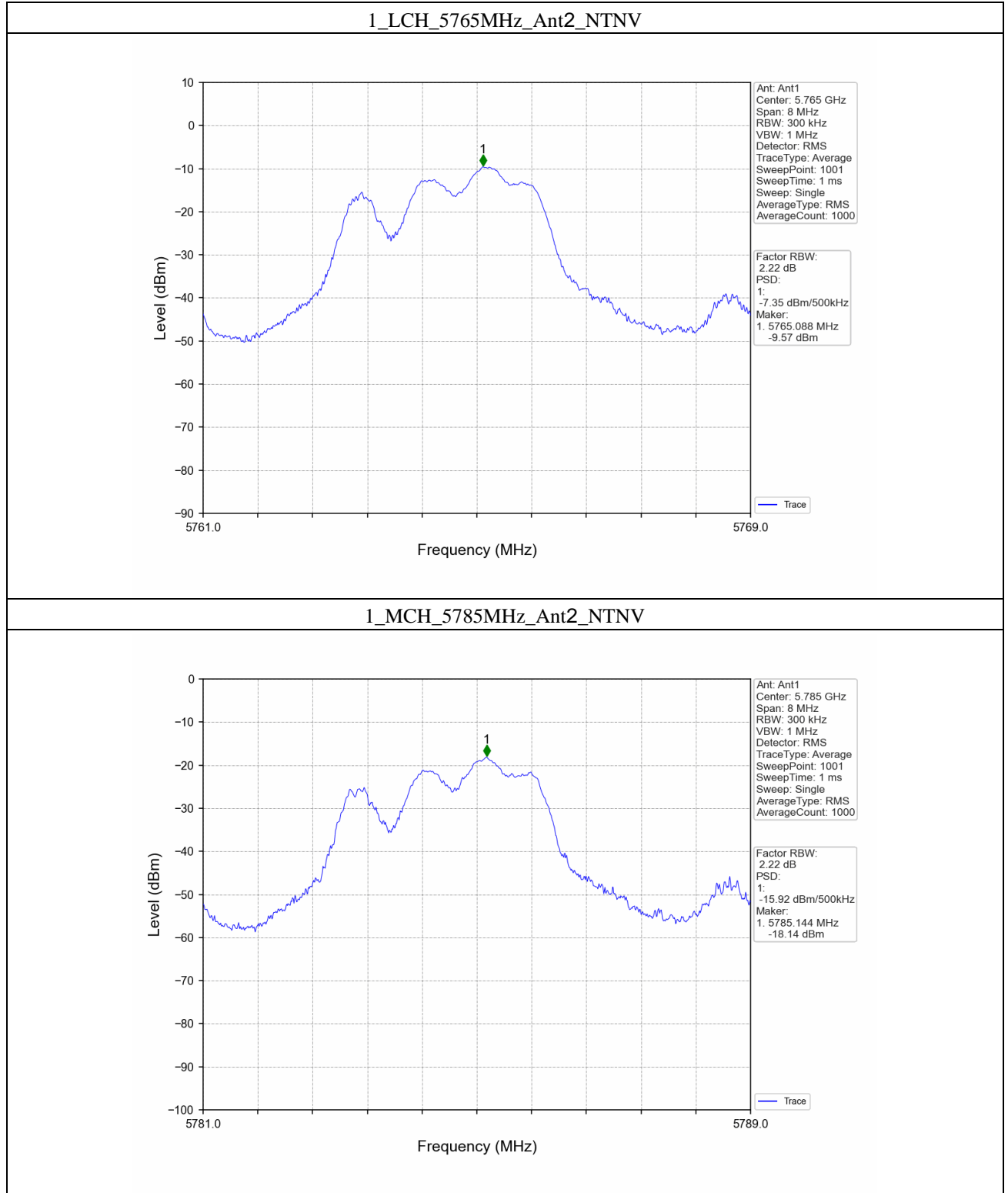


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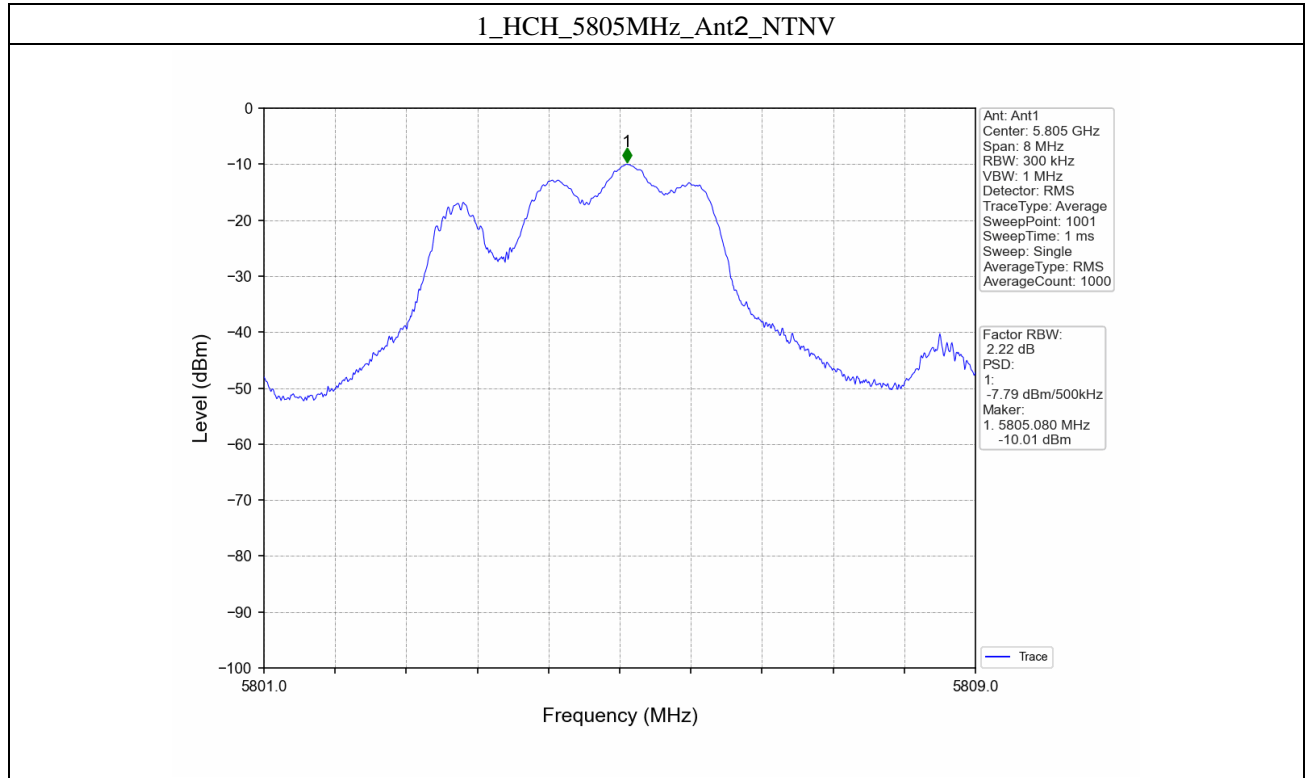
### 4.1.2 Test Graph



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