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Report No.: GZEM190601347901  
Page: 1 of 100  
FCC ID: 2A05W-WOOFITGOX

## TEST REPORT

**Application No.:** GZEM1906013479CR  
**Applicant:** SACKit ApS  
**Address of Applicant:** Lyngvej 1, DK-9000 Aalborg  
**Manufacturer:** SACKit ApS  
**Address of Manufacturer:** Lyngvej 1, DK-9000 Aalborg  
**Factory:** Dongguan Xindianwei Electronics Co., Ltd.  
**Address of Factory:** 2nd floor, 2 buildings, Hua Kechengbochuang, Jinju Village, Dalingshan Town, Dongguan City, Guangdong Province

**Equipment Under Test (EUT):**

**FCC ID:** 2A05W-WOOFITGOX

**EUT Name:** Bluetooth Speaker

**Model No.:** BA11S, WOOFit Go, WOOFit Go X, WOOFit Go x(x=A-Z). ■

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

**Trade Mark:** CVTE, SACKit

**Standard(s) :** 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2019-06-10

**Date of Test:** 2019-06-19 to 2019-07-05

**Date of Issue:** 2019-07-10

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

Kobe Jian

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-07-10		Original

Authorized for issue by:			
Tested By	 Curry_Wu /Project Engineer		2019-06-19 to 2019-07-05
			Date
Checked By	 Ricky_Liu /Reviewer		2019-07-10
			Date



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



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**Declaration of EUT Family Grouping:**

**Model No.:** BA11S, WOOFit Go, WOOFit Go X, WOOFit Go x(x=A-Z)

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 the outer decoration, model name.

Therefore only one model **WOOFit Go X** was tested in this report.



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## 4 General Information

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

Power Supply:	DC 3.7V rechargeable battery for working DC 5V for charging
Test Voltage:	DC 3.7V & AC 120V 60Hz
Cable:	about 0.5m unscreened USB cable
Antenna Gain	-0.68dBi
Antenna Type	PCB antenna
Channel Spacing	1MHz
Modulation Type	GFSK, $\pi/4$ DQPSK
Number of Channels	79
Operation Frequency	2402MHz to 2480MHz
Spectrum Spread Technology	Frequency Hopping Spread Spectrum(FHSS)
Test software	FCC assist V2.4

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^\circ\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 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.



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#### 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 C-Tick mark as a result of our NVLAP accreditation.

● **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-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

● **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, Jul 13, 2017.

● **Industry Canada (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-10449 and T-11179)**

The 10m Semi-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-10449 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 17025:2005, 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

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Hopping Channel Number					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date



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EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

### Dwell Time

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

### Conducted Band Edges Measurement

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2019-02-24	2020-02-23
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

### Conducted Spurious Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

### Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19



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EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18



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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 & 15.247(c)

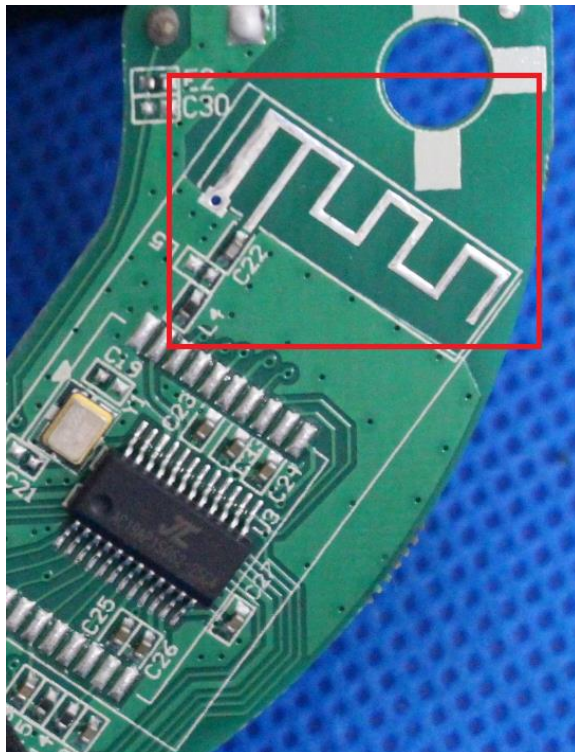
#### 6.1.2 Conclusion

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.68dBi.



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## 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum bands



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207  
 Test Method: ANSI C63.10 (2013) Section 6.2  
 Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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.



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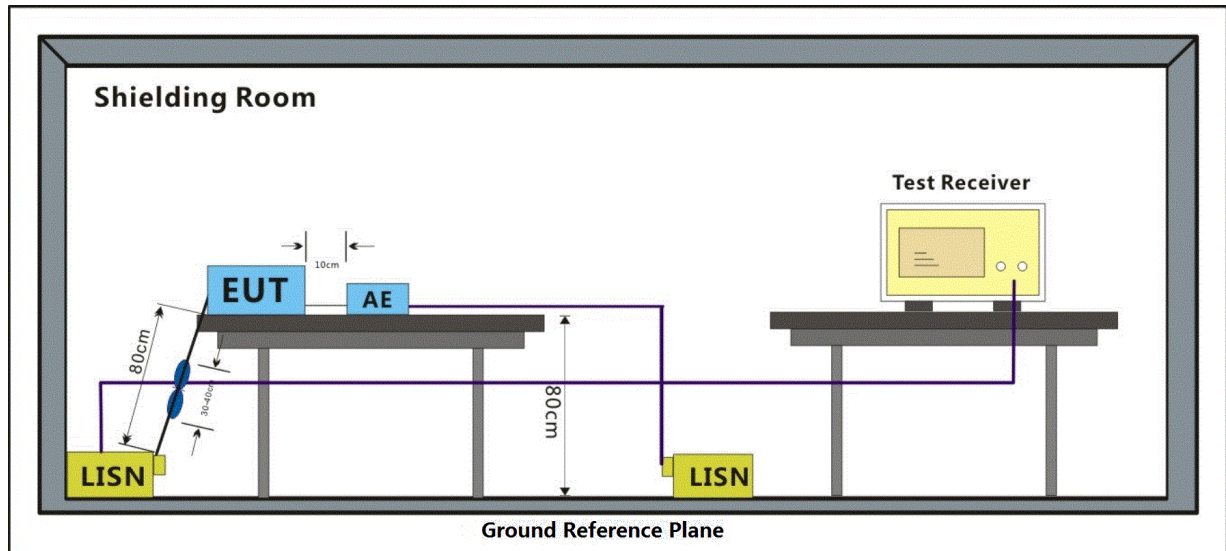
### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Humidity: 60 % RH Atmospheric Pressure: 1020 mbar

Test mode: c:Charge + TX\_non-Hop mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.1.2 Test Setup Diagram

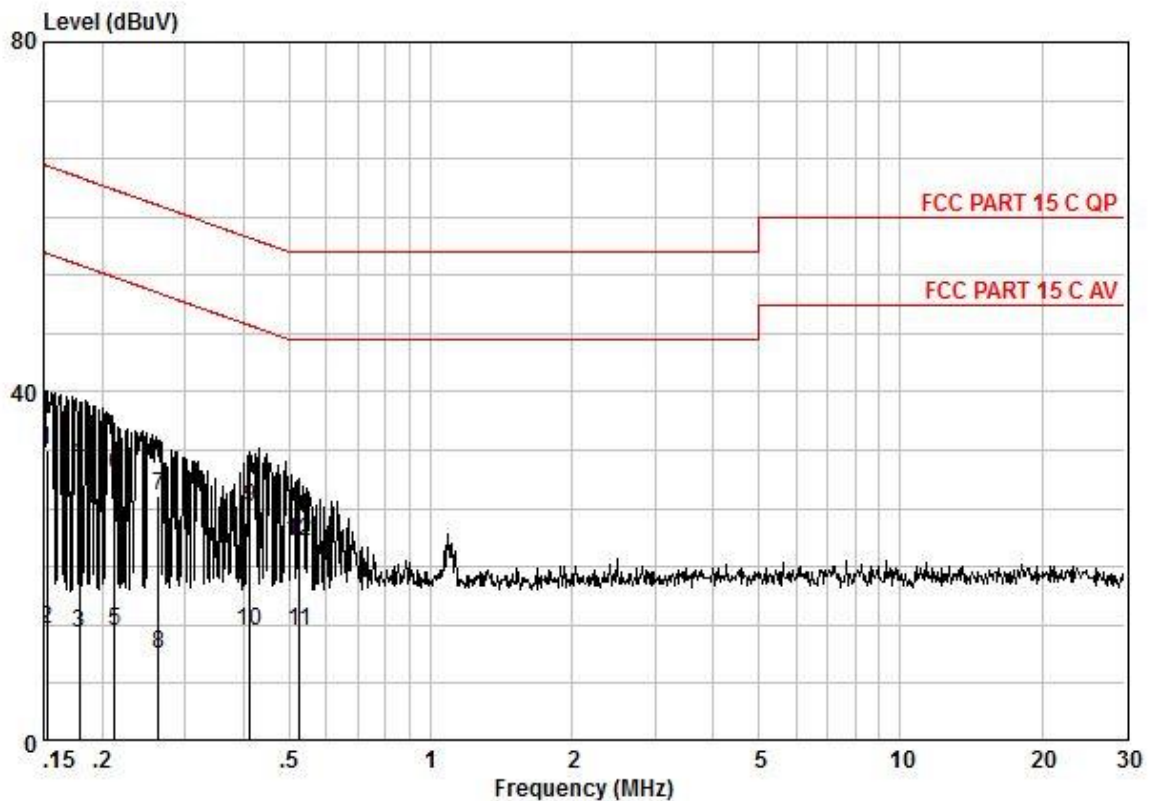


### 7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 $\mu$ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Mode:c; Line:Live Line



Pol	:LIVE							
No	:							
Model	:							
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark	
0,15	23,84	0,10	9,47	33,41	65,87	-32,46	QP	
0,15	3,40	0,10	9,47	12,97	55,87	-42,90	AVERAGE	
0,18	2,83	0,10	9,56	12,49	54,55	-42,06	AVERAGE	
0,18	22,46	0,10	9,56	32,12	64,55	-32,43	QP	
0,21	2,89	0,11	9,62	12,62	53,10	-40,48	AVERAGE	
0,21	20,72	0,11	9,62	30,45	63,10	-32,65	QP	
0,26	18,44	0,13	9,63	28,20	61,34	-33,14	QP	
0,26	0,37	0,13	9,63	10,13	51,34	-41,21	AVERAGE	
0,41	16,96	0,18	9,64	26,78	57,59	-30,81	QP	
0,41	2,89	0,18	9,64	12,71	47,59	-34,88	AVERAGE	
0,53	2,85	0,21	9,64	12,70	46,00	-33,30	AVERAGE	
0,53	13,08	0,21	9,64	22,93	56,00	-33,07	QP	

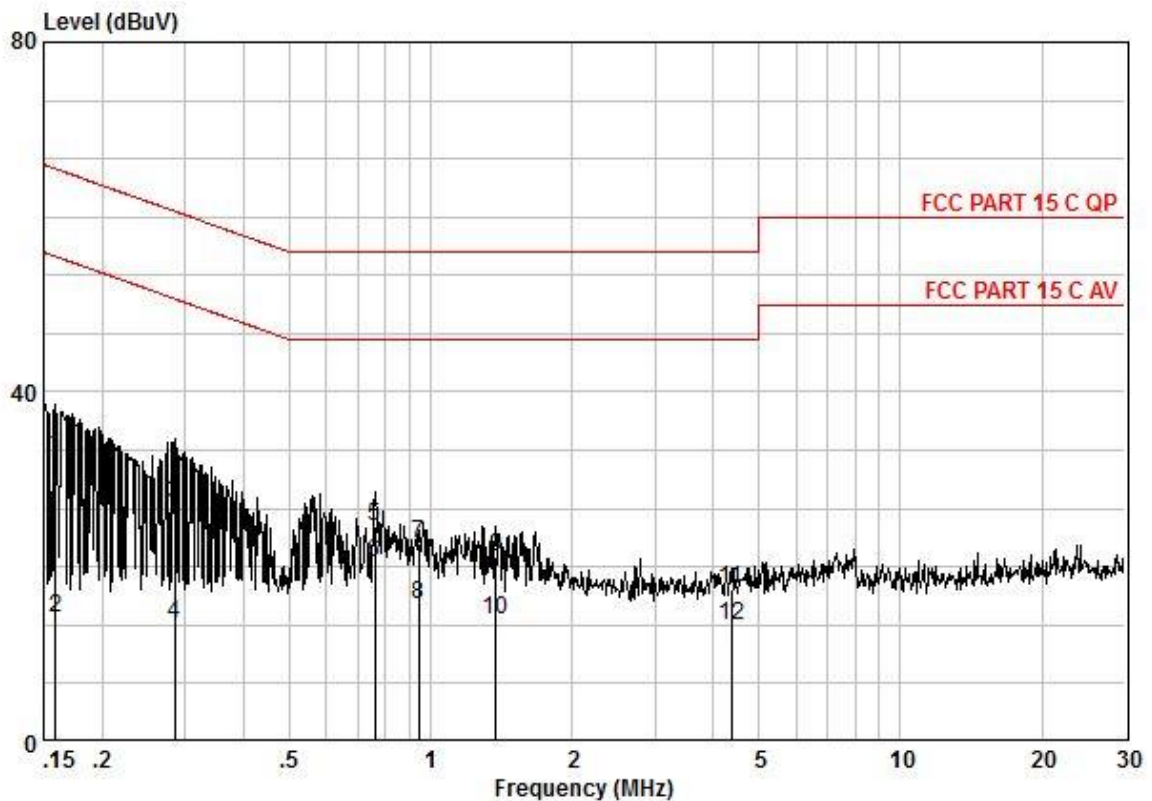


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Mode:c; Line:Neutral Line

Pol : NEUTRAL  
No :  
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.16	22.91	0.10	9.67	32.68	65.52	-32.84	QP
0.16	4.37	0.10	9.67	14.14	55.52	-41.38	AVERAGE
0.28	17.52	0.14	9.66	27.32	60.68	-33.36	QP
0.28	3.80	0.14	9.66	13.60	50.68	-37.08	AVERAGE
0.76	14.75	0.26	9.67	24.68	56.00	-31.32	QP
0.76	10.57	0.26	9.67	20.50	46.00	-25.50	AVERAGE
0.94	12.68	0.29	9.67	22.65	56.00	-33.35	QP
0.94	5.82	0.29	9.67	15.79	46.00	-30.21	AVERAGE
1.37	11.21	0.30	9.68	21.19	56.00	-34.81	QP
1.37	3.95	0.30	9.68	13.93	46.00	-32.07	AVERAGE
4.36	7.03	0.65	9.72	17.40	56.00	-38.60	QP
4.36	2.83	0.65	9.72	13.20	46.00	-32.80	AVERAGE



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## 7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



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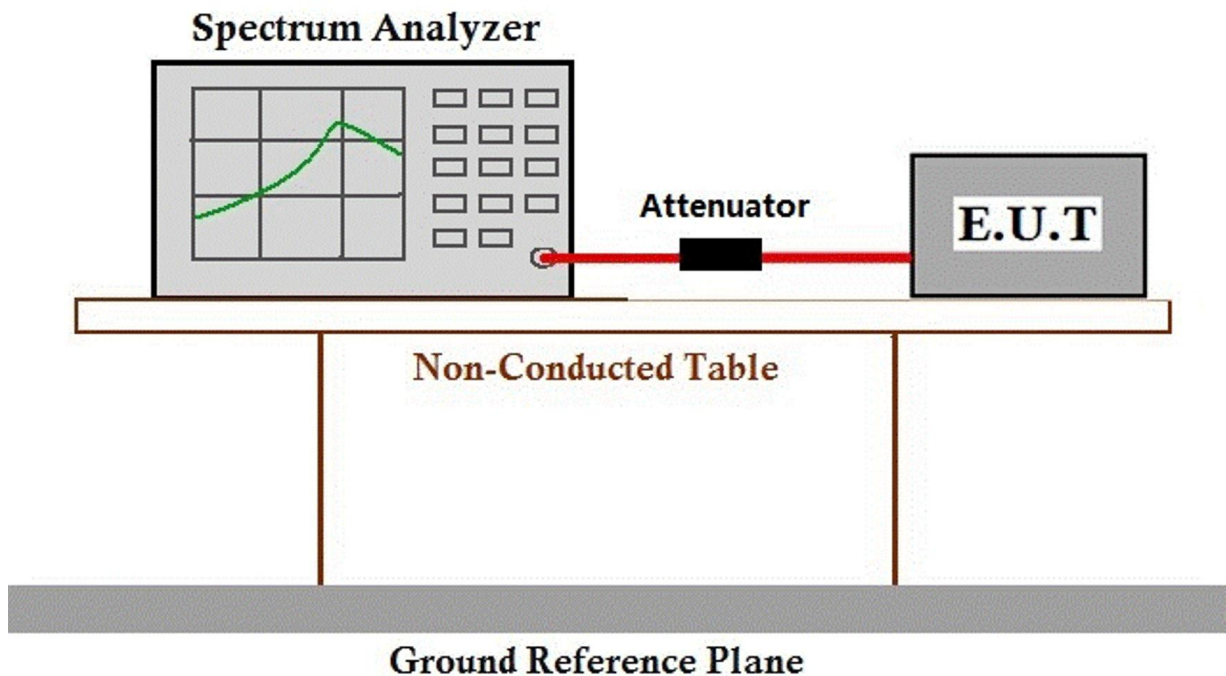
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 62.1 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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### 7.3 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.7

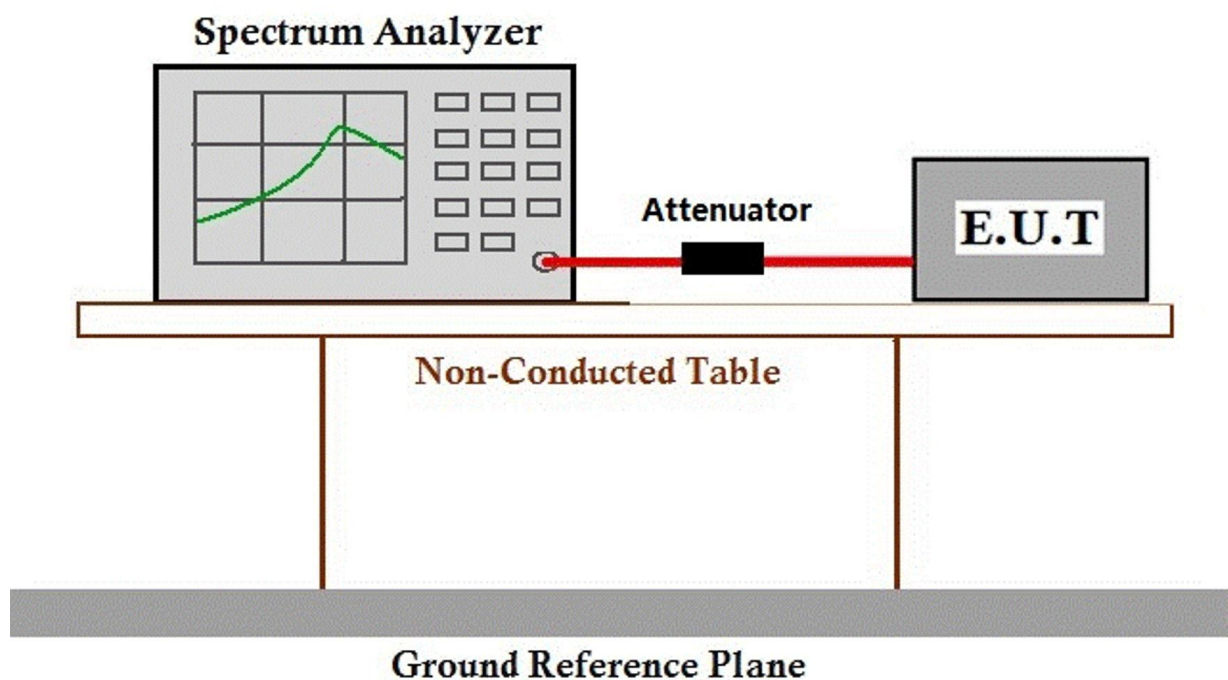
#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 62.1 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.4 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)  
 Test Method: ANSI C63.10 (2013) Section 7.8.2  
 Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

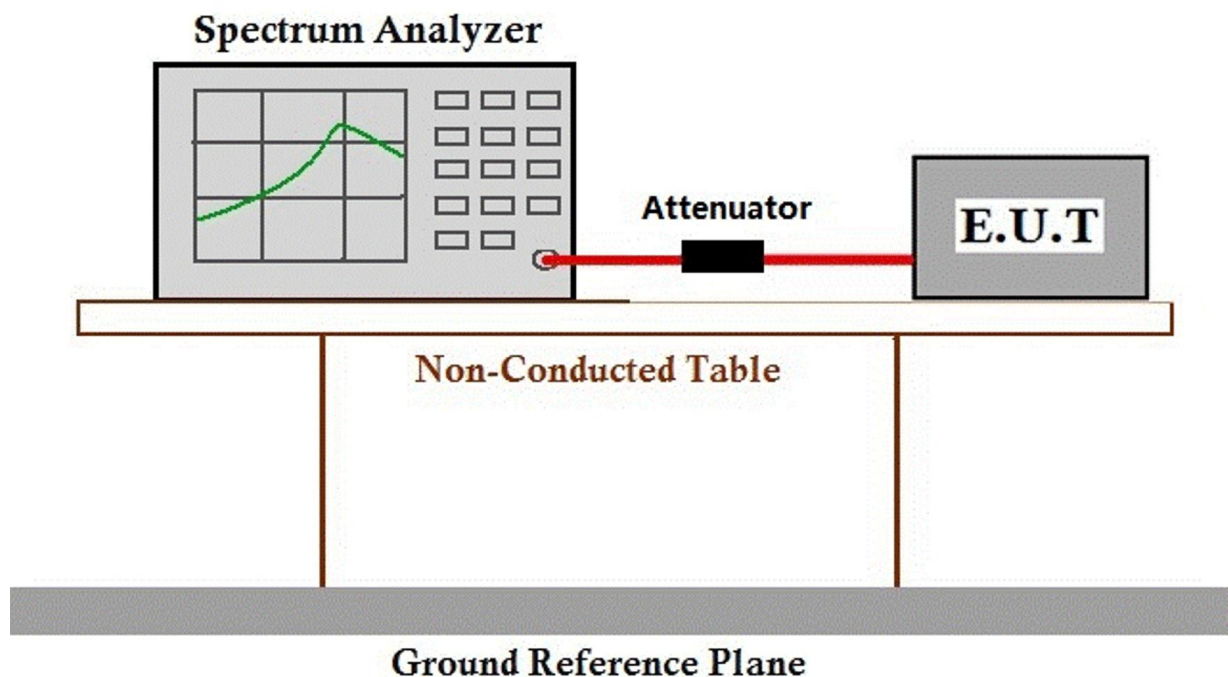
### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 62.1 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

### 7.4.2 Test Setup Diagram



### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.5 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

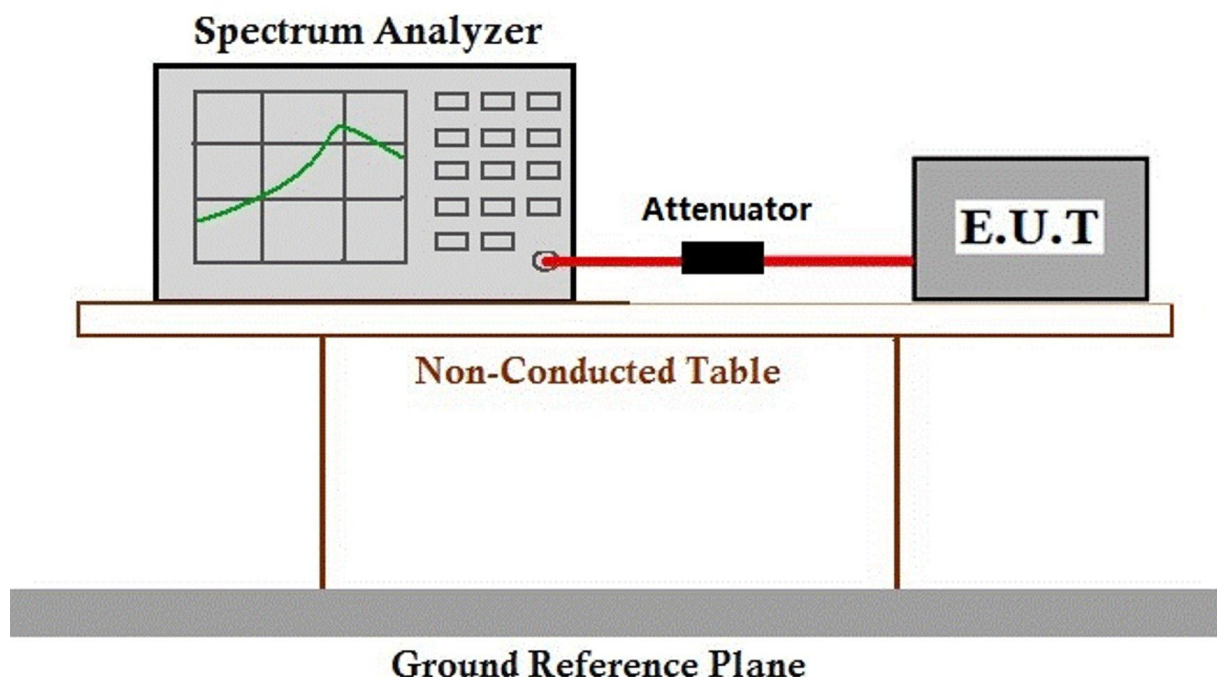
### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 61.9 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

### 7.5.2 Test Setup Diagram



### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.6 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

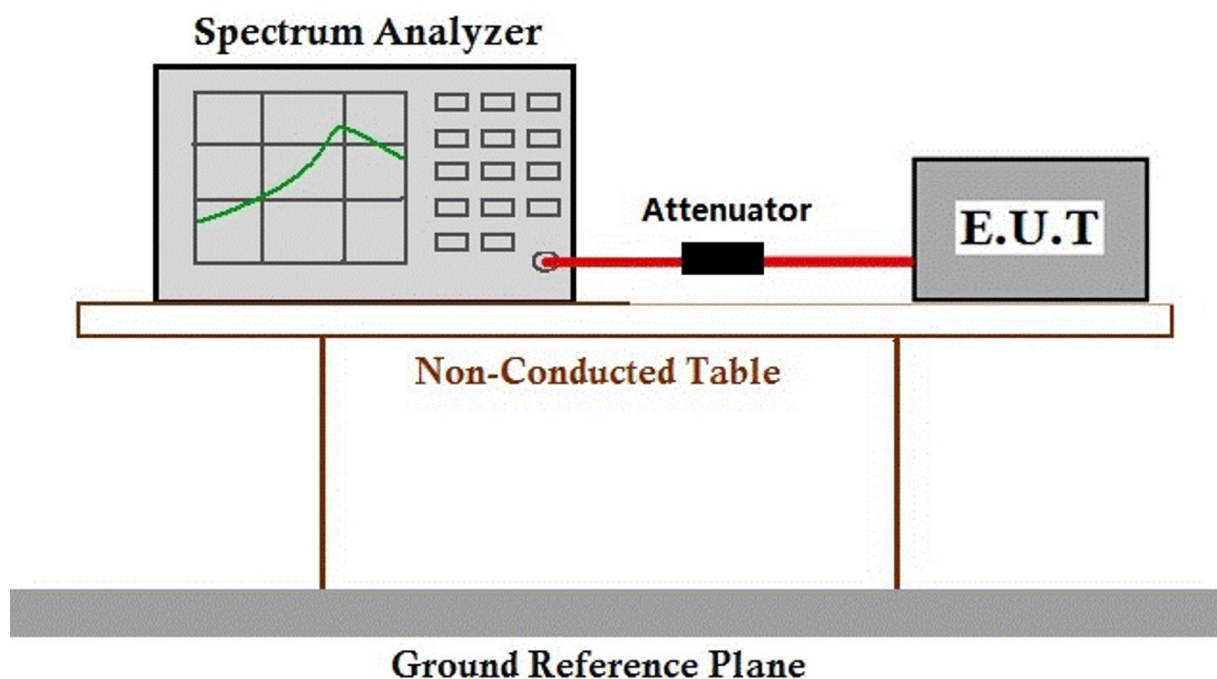
### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 61.8 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

### 7.6.2 Test Setup Diagram



### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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### 7.7.1 E.U.T. Operation

Operating Environment:

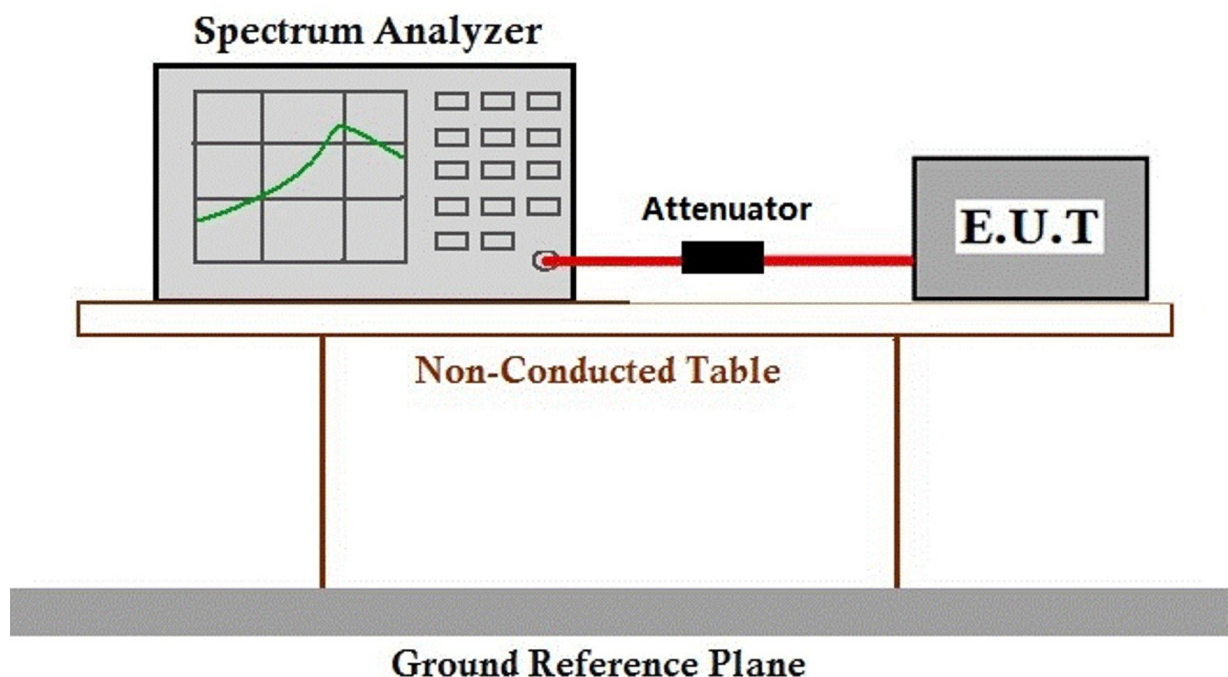
Temperature: 25.8 °C Humidity: 61.8 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

The worst case for final test: a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

### 7.7.2 Test Setup Diagram



### 7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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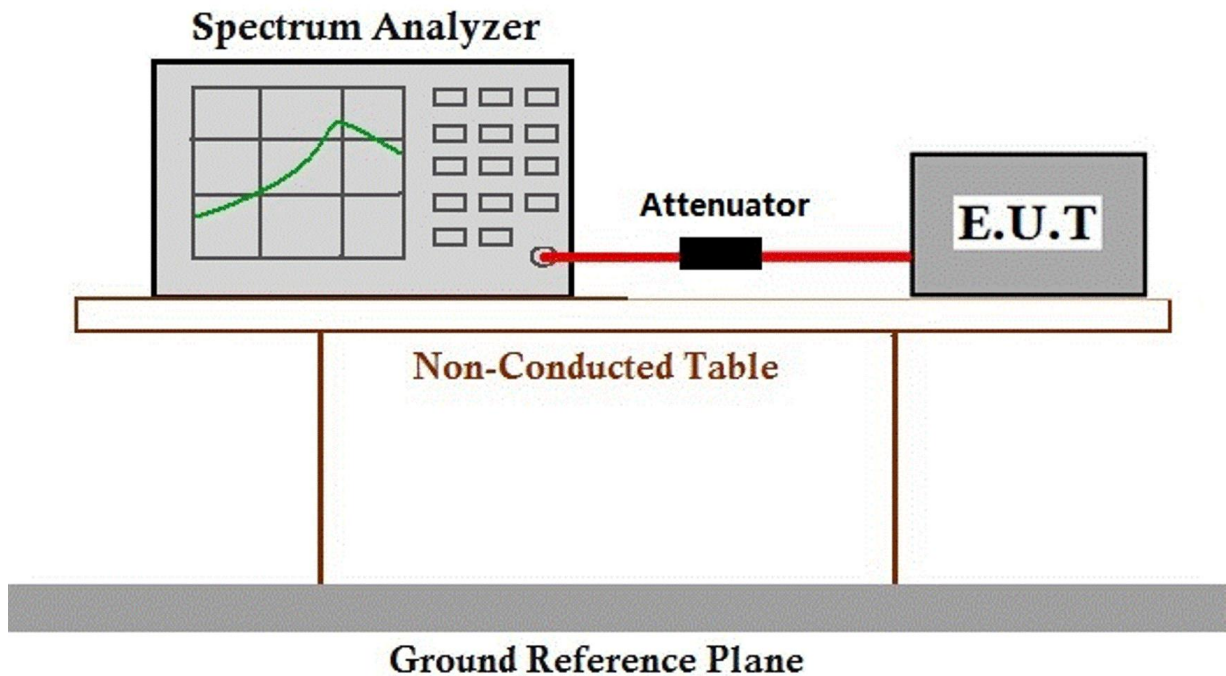
### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 61.8 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

### 7.8.2 Test Setup Diagram



### 7.8.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

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

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.



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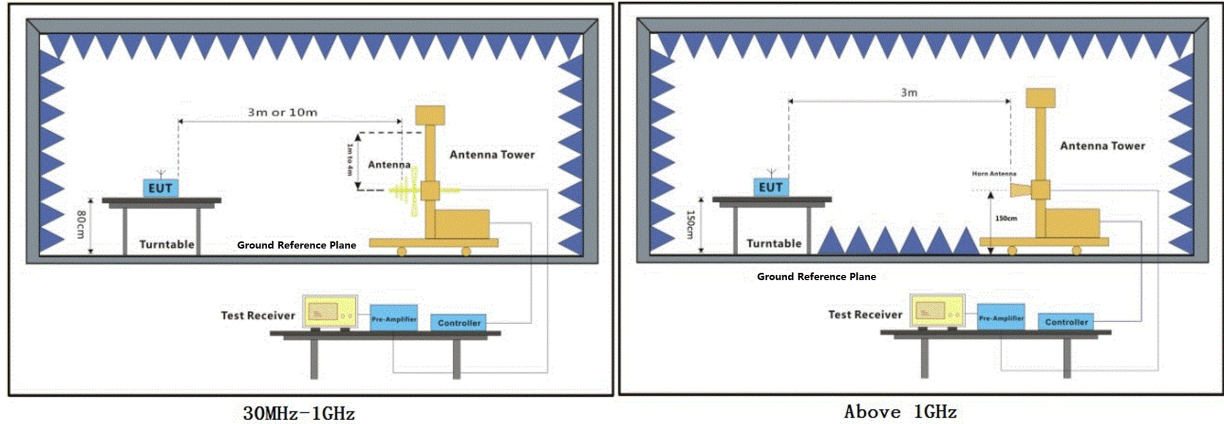
### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 58 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

### 7.9.2 Test Setup Diagram



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### 7.9.3 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.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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.

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



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	38.51	26.25	5.03	37.44	32.35	54.00	-21.65	HORIZONTAL Average
2	2310.000	46.04	26.25	5.03	37.44	39.88	74.00	-34.12	HORIZONTAL Peak
3	2390.000	38.94	26.43	4.88	37.42	32.83	54.00	-21.17	HORIZONTAL Average
4	2390.000	46.69	26.43	4.88	37.42	40.58	74.00	-33.42	HORIZONTAL Peak
5	2483.500	40.11	26.58	5.23	37.40	34.52	54.00	-19.48	HORIZONTAL Average
6	2483.500	47.10	26.58	5.23	37.40	41.51	74.00	-32.49	HORIZONTAL Peak
7	2500.000	39.55	26.60	4.95	37.39	33.71	54.00	-20.29	HORIZONTAL Average
8	2500.000	46.37	26.60	4.95	37.39	40.53	74.00	-33.47	HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	37.15	26.25	5.03	37.44	30.99	54.00	-23.01	VERTICAL Average
2	2310.000	46.83	26.25	5.03	37.44	40.67	74.00	-33.33	VERTICAL Peak
3	2390.000	38.48	26.43	4.88	37.42	32.37	54.00	-21.63	VERTICAL Average
4	2390.000	46.67	26.43	4.88	37.42	40.56	74.00	-33.44	VERTICAL Peak
5	2483.500	34.19	26.58	5.23	37.40	28.60	54.00	-25.40	VERTICAL Average
6	2483.500	46.39	26.58	5.23	37.40	40.80	74.00	-33.20	VERTICAL Peak
7	2500.000	38.71	26.60	4.95	37.39	32.87	54.00	-21.13	VERTICAL Average
8	2500.000	46.51	26.60	4.95	37.39	40.67	74.00	-33.33	VERTICAL Peak



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	39.54	26.25	5.03	37.44	33.38	54.00	-20.62	HORIZONTAL Average
2	2310.000	46.07	26.25	5.03	37.44	39.91	74.00	-34.09	HORIZONTAL Peak
3	2390.000	39.41	26.43	4.88	37.42	33.30	54.00	-20.70	HORIZONTAL Average
4	2390.000	46.33	26.43	4.88	37.42	40.22	74.00	-33.78	HORIZONTAL Peak
5	2483.500	50.21	26.58	5.23	37.40	44.62	54.00	-9.38	HORIZONTAL Average
6	2483.500	65.61	26.58	5.23	37.40	60.02	74.00	-13.98	HORIZONTAL Peak
7	2500.000	42.52	26.60	4.95	37.39	36.68	54.00	-17.32	HORIZONTAL Average
8	2500.000	47.00	26.60	4.95	37.39	41.16	74.00	-32.84	HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	40.21	26.25	5.03	37.44	34.05	54.00	-19.95	VERTICAL Average
2	2310.000	46.55	26.25	5.03	37.44	40.39	74.00	-33.61	VERTICAL Peak
3	2390.000	40.20	26.43	4.88	37.42	34.09	54.00	-19.91	VERTICAL Average
4	2390.000	46.59	26.43	4.88	37.42	40.48	74.00	-33.52	VERTICAL Peak
5	2483.500	51.26	26.58	5.23	37.40	45.67	54.00	-8.33	VERTICAL Average
6	2483.500	61.41	26.58	5.23	37.40	55.82	74.00	-18.18	VERTICAL Peak
7	2500.000	42.32	26.60	4.95	37.39	36.48	54.00	-17.52	VERTICAL Average
8	2500.000	47.38	26.60	4.95	37.39	41.54	74.00	-32.46	VERTICAL Peak



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## 7.10 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

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

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.



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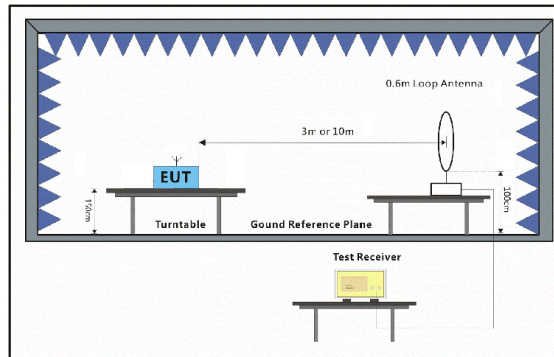
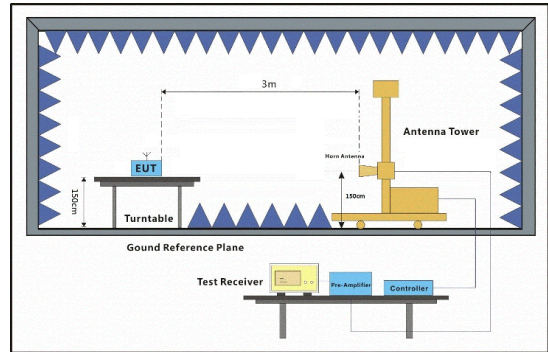
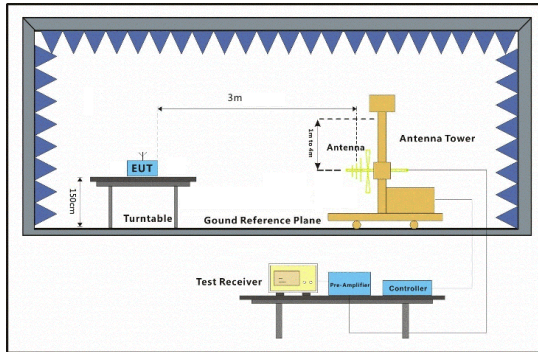
### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 58 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation.. All modes have been tested and only the data of worst case is recorded in the report.

### 7.10.2 Test Setup Diagram



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### 7.10.3 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.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, 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) 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



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	53.318	26.42	14.39	0.78	26.50	15.09	40.00	-24.91	HORIZONTAL	QP
2	69.600	29.10	12.74	0.90	26.46	16.28	40.00	-23.72	HORIZONTAL	QP
3	156.458	25.65	13.62	1.32	26.44	14.15	43.50	-29.35	HORIZONTAL	QP
4	343.180	27.74	14.91	1.92	27.19	17.38	46.00	-28.62	HORIZONTAL	QP
5	578.670	27.66	20.02	2.56	27.44	22.80	46.00	-23.20	HORIZONTAL	QP
6	932.272	28.25	23.73	3.20	26.94	28.24	46.00	-17.76	HORIZONTAL	QP

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4062.629	38.48	29.55	7.06	36.90	38.19	54.00	-15.81	HORIZONTAL	Average
2	4062.629	45.71	29.55	7.06	36.90	45.42	74.00	-28.58	HORIZONTAL	Peak
3	4804.007	35.81	30.79	5.87	36.94	35.53	54.00	-18.47	HORIZONTAL	Average
4	4804.007	46.83	30.79	5.87	36.94	46.55	74.00	-27.45	HORIZONTAL	Peak
5	7205.975	43.54	35.45	7.34	36.93	49.40	54.00	-4.60	HORIZONTAL	Average
6	7205.975	52.20	35.45	7.34	36.93	58.06	74.00	-15.94	HORIZONTAL	Peak
7	8082.804	38.71	36.44	8.32	36.90	46.57	54.00	-7.43	HORIZONTAL	Average
8	8082.804	45.58	36.44	8.32	36.90	53.44	74.00	-20.56	HORIZONTAL	Peak
9	9608.432	38.51	37.51	8.15	37.08	47.09	54.00	-6.91	HORIZONTAL	Average
10	9608.432	45.05	37.51	8.15	37.08	53.63	74.00	-20.37	HORIZONTAL	Peak
11	12010.350	35.41	39.50	10.67	37.20	48.38	54.00	-5.62	HORIZONTAL	Average
12	12010.350	44.44	39.50	10.67	37.20	57.41	74.00	-16.59	HORIZONTAL	Peak



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	52.945	36.96	14.41	0.76	26.50	25.63	40.00	-14.37	VERTICAL	QP
2	72.338	38.05	12.16	0.90	26.44	24.67	40.00	-15.33	VERTICAL	QP
3	130.379	28.23	12.16	1.23	26.41	15.21	43.50	-28.29	VERTICAL	QP
4	193.095	33.14	11.62	1.48	26.45	19.79	43.50	-23.71	VERTICAL	QP
5	348.027	27.43	15.17	1.93	27.21	17.32	46.00	-28.68	VERTICAL	QP
6	866.088	27.48	23.14	3.10	27.17	26.55	46.00	-19.45	VERTICAL	QP

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4804.629	36.52	30.79	5.87	36.94	36.24	54.00	-17.76	VERTICAL	Average
2	4804.629	45.40	30.79	5.87	36.94	45.12	74.00	-28.88	VERTICAL	Peak
3	5016.977	38.40	31.12	8.22	36.96	40.78	54.00	-13.22	VERTICAL	Average
4	5016.977	44.13	31.12	8.22	36.96	46.51	74.00	-27.49	VERTICAL	Peak
5	7206.309	42.60	35.45	7.34	36.93	48.46	54.00	-5.54	VERTICAL	Average
6	7206.309	50.35	35.45	7.34	36.93	56.21	74.00	-17.79	VERTICAL	Peak
7	7943.838	38.48	36.47	8.38	36.90	46.43	54.00	-7.57	VERTICAL	Average
8	7943.838	45.61	36.47	8.38	36.90	53.56	74.00	-20.44	VERTICAL	Peak
9	9608.916	39.85	37.51	8.15	37.08	48.43	54.00	-5.57	VERTICAL	Average
10	9608.916	45.32	37.51	8.15	37.08	53.90	74.00	-20.10	VERTICAL	Peak
11	12010.350	35.82	39.50	10.67	37.20	48.79	54.00	-5.21	VERTICAL	Average
12	12010.350	44.50	39.50	10.67	37.20	57.47	74.00	-16.53	VERTICAL	Peak



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4882.497	38.49	30.95	6.86	36.95	39.35	54.00	-14.65 HORIZONTAL Average
2	4882.497	45.64	30.95	6.86	36.95	46.50	74.00	-27.50 HORIZONTAL Peak
3	5967.033	37.55	32.28	7.20	37.00	40.03	54.00	-13.97 HORIZONTAL Average
4	5967.033	45.01	32.28	7.20	37.00	47.49	74.00	-26.51 HORIZONTAL Peak
5	7323.145	41.43	35.74	7.39	36.92	47.64	54.00	-6.36 HORIZONTAL Average
6	7323.145	48.90	35.74	7.39	36.92	55.11	74.00	-18.89 HORIZONTAL Peak
7	8059.475	35.41	36.46	8.33	36.90	43.30	54.00	-10.70 HORIZONTAL Average
8	8059.475	45.25	36.46	8.33	36.90	53.14	74.00	-20.86 HORIZONTAL Peak
9	9764.349	37.52	37.70	8.33	37.09	46.46	54.00	-7.54 HORIZONTAL Average
10	9764.349	45.95	37.70	8.33	37.09	54.89	74.00	-19.11 HORIZONTAL Peak
11	12205.390	34.81	39.21	10.98	37.06	47.94	54.00	-6.06 HORIZONTAL Average
12	12205.390	45.10	39.21	10.98	37.06	58.23	74.00	-15.77 HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4882.993	38.48	30.95	6.86	36.95	39.34	54.00	-14.66 VERTICAL Average
2	4882.993	46.24	30.95	6.86	36.95	47.10	74.00	-26.90 VERTICAL Peak
3	6322.136	38.95	33.68	6.97	36.99	42.61	54.00	-11.39 VERTICAL Average
4	6322.136	45.90	33.68	6.97	36.99	49.56	74.00	-24.44 VERTICAL Peak
5	7322.934	44.32	35.74	7.39	36.92	50.53	54.00	-3.47 VERTICAL Average
6	7322.934	51.68	35.74	7.39	36.92	57.89	74.00	-16.11 VERTICAL Peak
7	8013.020	36.59	36.49	8.35	36.90	44.53	54.00	-9.47 VERTICAL Average
8	8013.020	44.90	36.49	8.35	36.90	52.84	74.00	-21.16 VERTICAL Peak
9	9764.991	39.80	37.70	8.33	37.09	48.74	54.00	-5.26 VERTICAL Average
10	9764.991	45.77	37.70	8.33	37.09	54.71	74.00	-19.29 VERTICAL Peak
11	12205.270	35.55	39.21	10.98	37.06	48.68	54.00	-5.32 VERTICAL Average
12	12205.270	44.59	39.21	10.98	37.06	57.72	74.00	-16.28 VERTICAL Peak



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3790.361	37.42	28.97	7.83	36.92	37.30	54.00	-16.70 HORIZONTAL Average
2	3790.361	45.36	28.97	7.83	36.92	45.24	74.00	-28.76 HORIZONTAL Peak
3	4960.041	38.49	31.05	7.84	36.96	40.42	54.00	-13.58 HORIZONTAL Average
4	4960.041	46.03	31.05	7.84	36.96	47.96	74.00	-26.04 HORIZONTAL Peak
5	6545.263	32.51	34.35	7.10	36.98	36.98	54.00	-17.02 HORIZONTAL Average
6	6545.263	44.42	34.35	7.10	36.98	48.89	74.00	-25.11 HORIZONTAL Peak
7	7439.914	41.91	35.92	7.43	36.92	48.34	54.00	-5.66 HORIZONTAL Average
8	7439.914	49.22	35.92	7.43	36.92	55.65	74.00	-18.35 HORIZONTAL Peak
9	9920.916	32.52	37.92	8.63	37.10	41.97	54.00	-12.03 HORIZONTAL Average
10	9920.916	44.68	37.92	8.63	37.10	54.13	74.00	-19.87 HORIZONTAL Peak
11	12400.900	32.22	38.93	11.17	36.90	45.42	54.00	-8.58 HORIZONTAL Average
12	12400.900	44.84	38.93	11.17	36.90	58.04	74.00	-15.96 HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3890.255	35.09	29.27	7.61	36.91	35.06	54.00	-18.94 VERTICAL Average
2	3890.255	44.99	29.27	7.61	36.91	44.96	74.00	-29.04 VERTICAL Peak
3	4960.307	39.85	31.05	7.84	36.96	41.78	54.00	-12.22 VERTICAL Average
4	4960.307	44.12	31.05	7.84	36.96	46.05	74.00	-27.95 VERTICAL Peak
5	7440.914	41.50	35.92	7.43	36.92	47.93	54.00	-6.07 VERTICAL Average
6	7440.914	48.37	35.92	7.43	36.92	54.80	74.00	-19.20 VERTICAL Peak
7	8082.804	38.74	36.44	8.32	36.90	46.60	54.00	-7.40 VERTICAL Average
8	8082.804	45.15	36.44	8.32	36.90	53.01	74.00	-20.99 VERTICAL Peak
9	9920.789	35.50	37.92	8.63	37.10	44.95	54.00	-9.05 VERTICAL Average
10	9920.789	43.45	37.92	8.63	37.10	52.90	74.00	-21.10 VERTICAL Peak
11	12400.850	32.18	38.93	11.17	36.90	45.38	54.00	-8.62 VERTICAL Average
12	12400.850	43.00	38.93	11.17	36.90	56.20	74.00	-17.80 VERTICAL Peak



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## 8 Appendix

### 8.1 Appendix 15.247

#### 1.20 dB Bandwidth

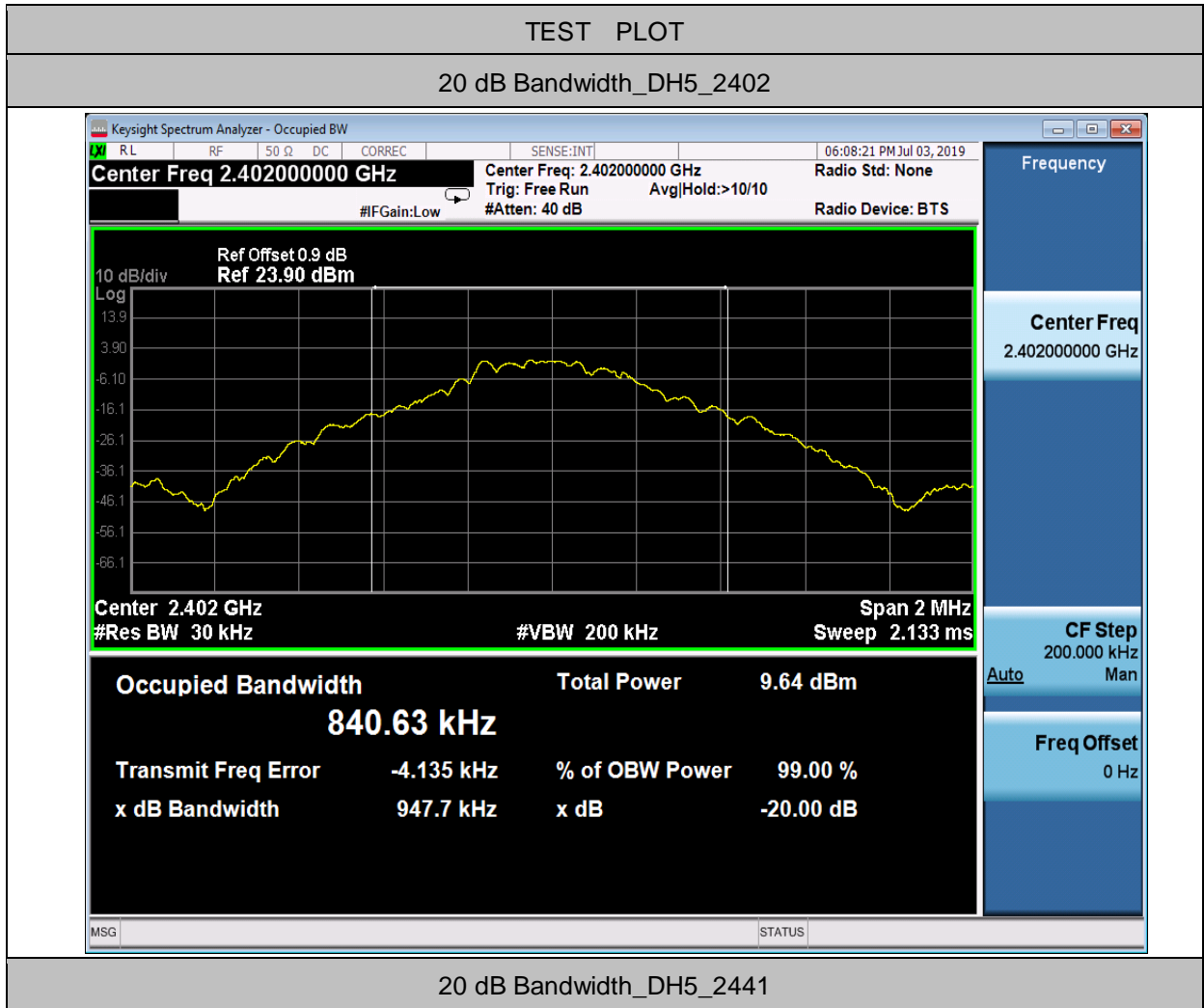
Test Mode	Test Channel	OBW[MHz]	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.84057	0.9477	---	PASS
DH5	2441	0.84146	0.9506	---	PASS
DH5	2480	0.84738	0.9499	---	PASS
2DH5	2402	1.1765	1.311	---	PASS
2DH5	2441	1.1765	1.314	---	PASS
2DH5	2480	1.1740	1.313	---	PASS



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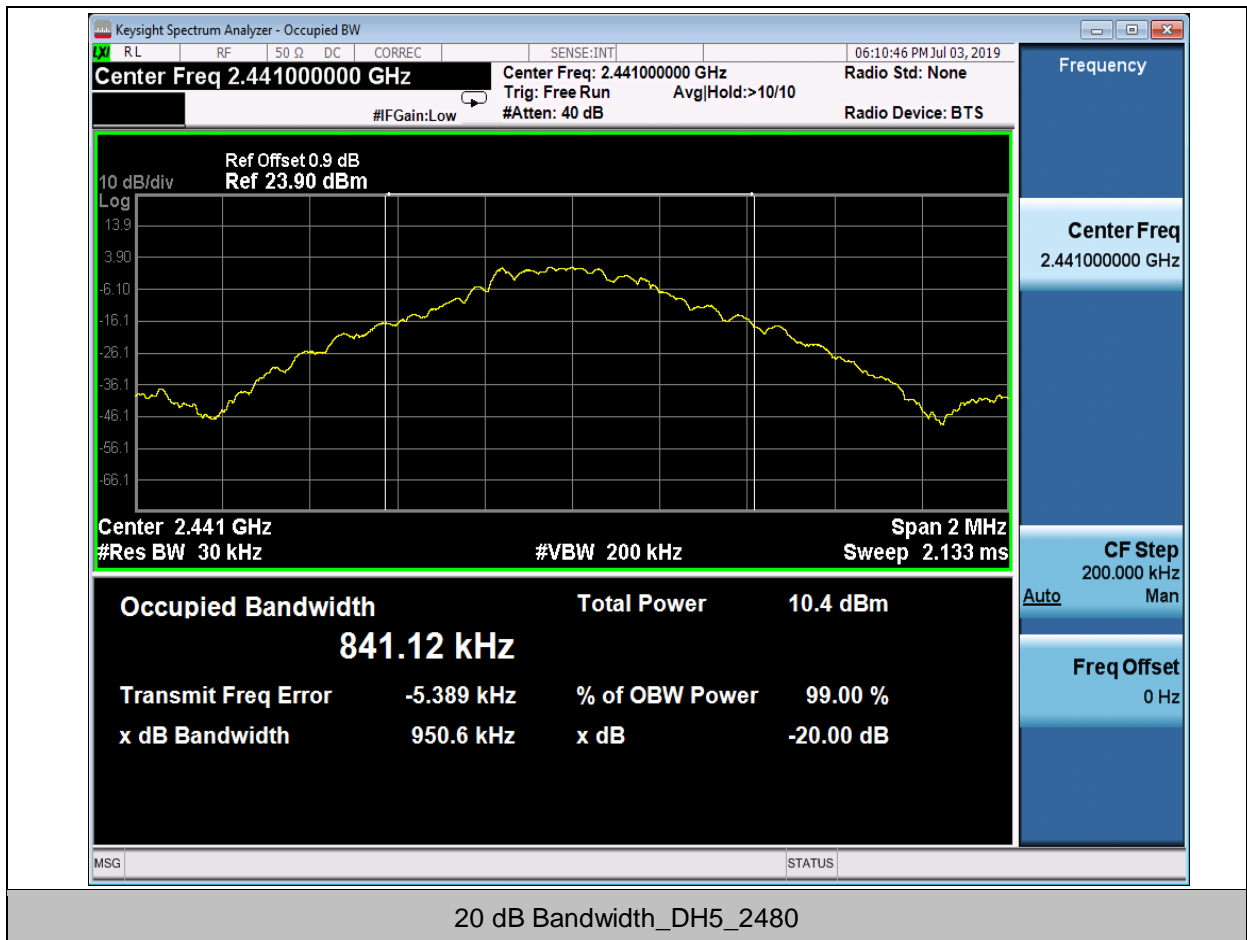
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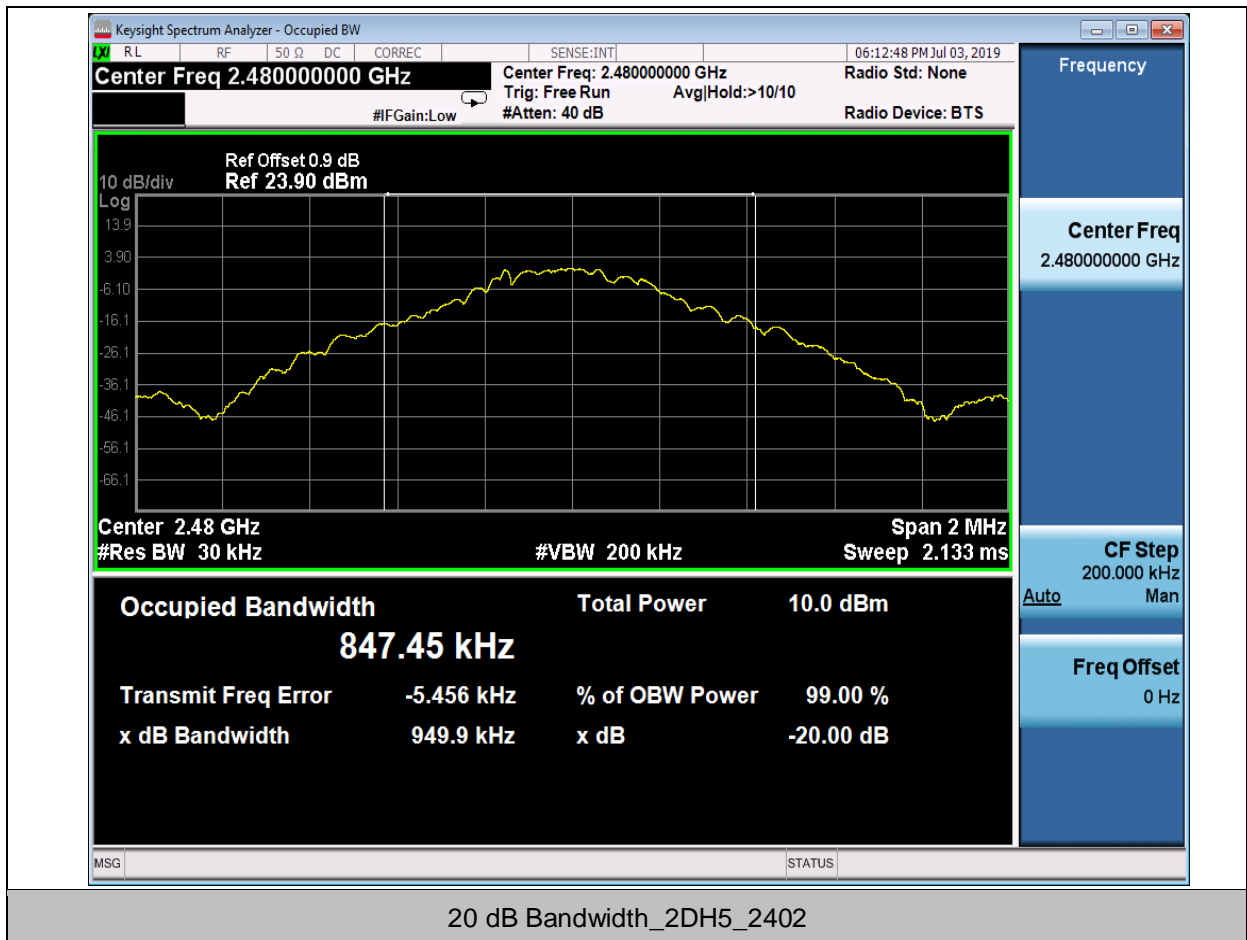
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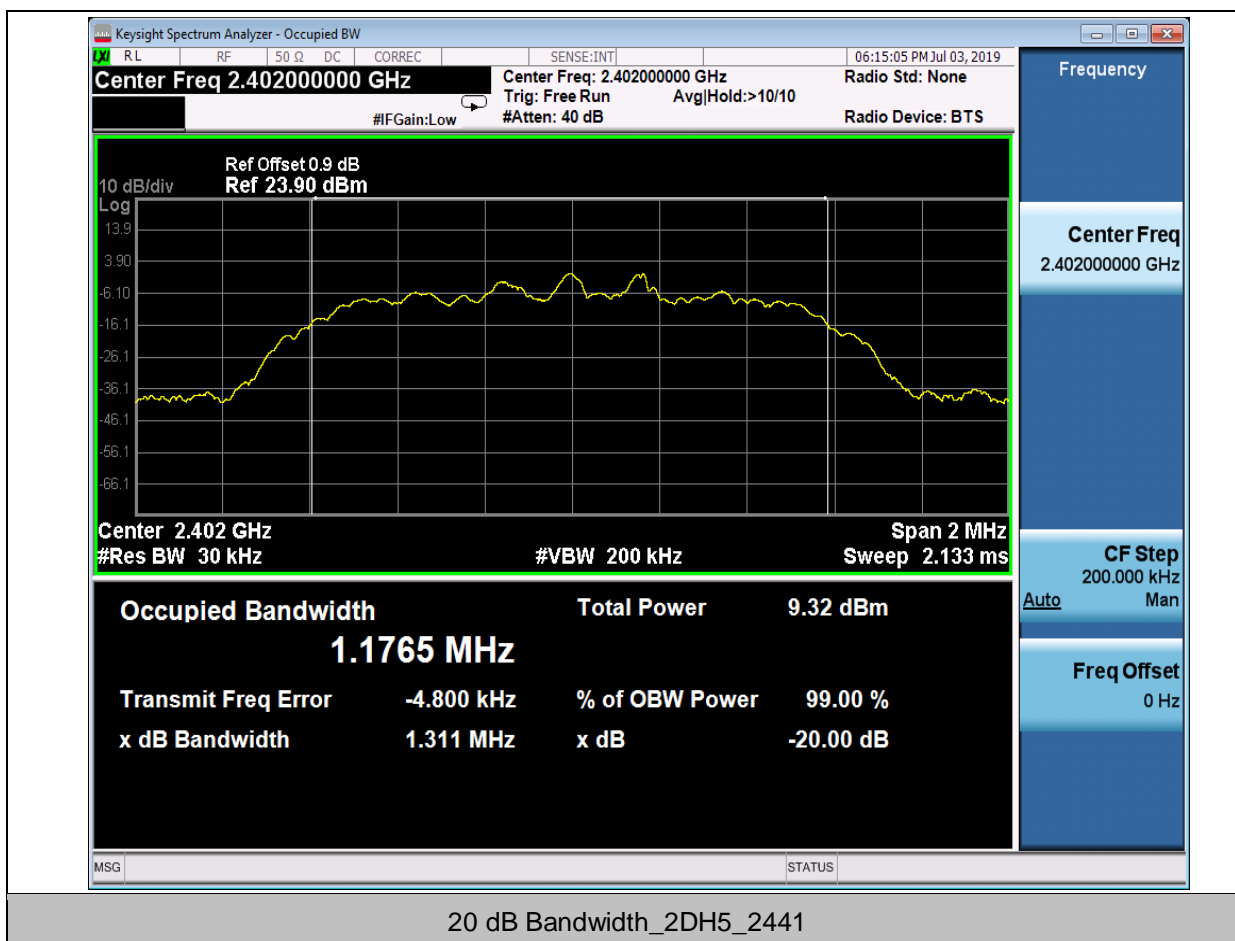
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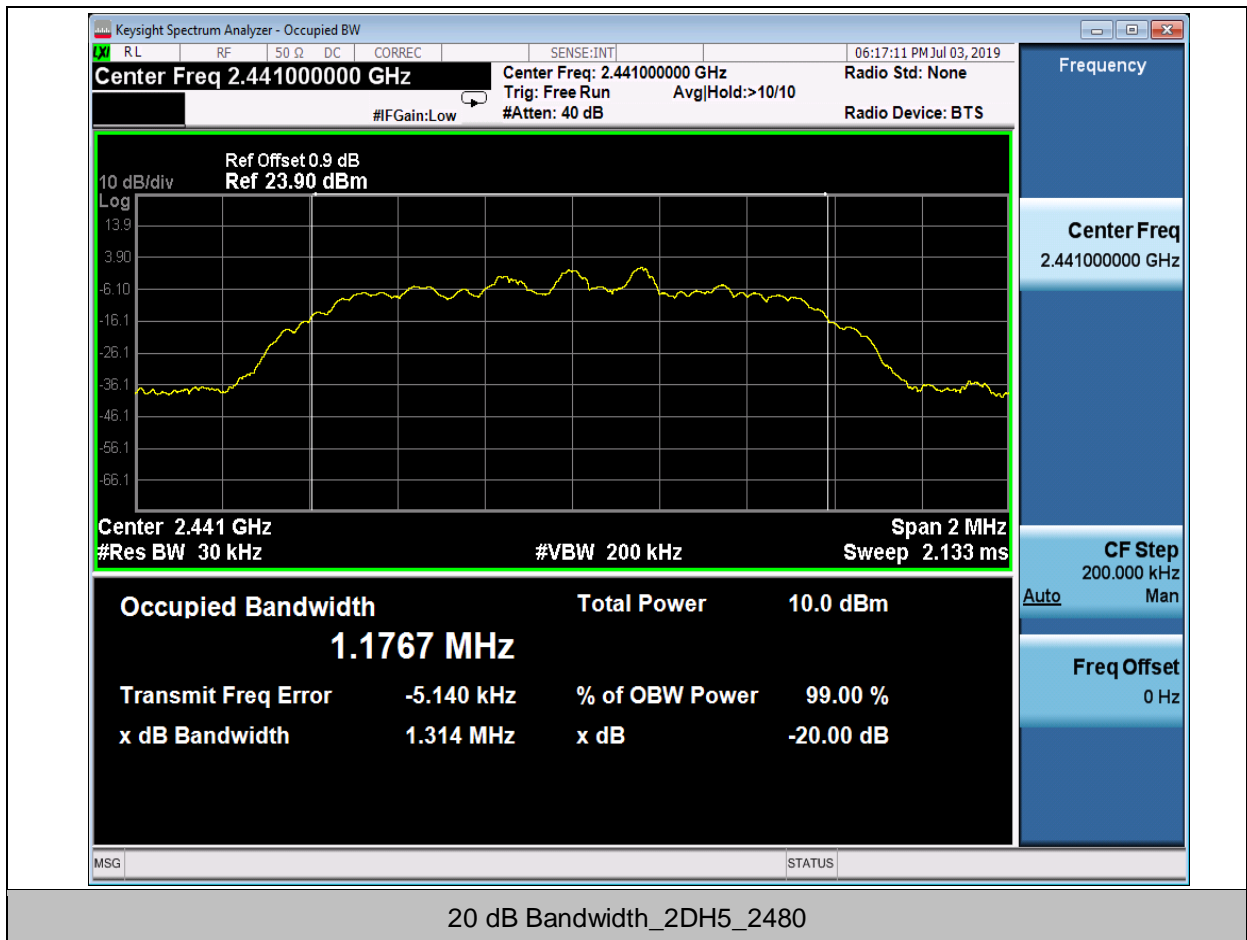
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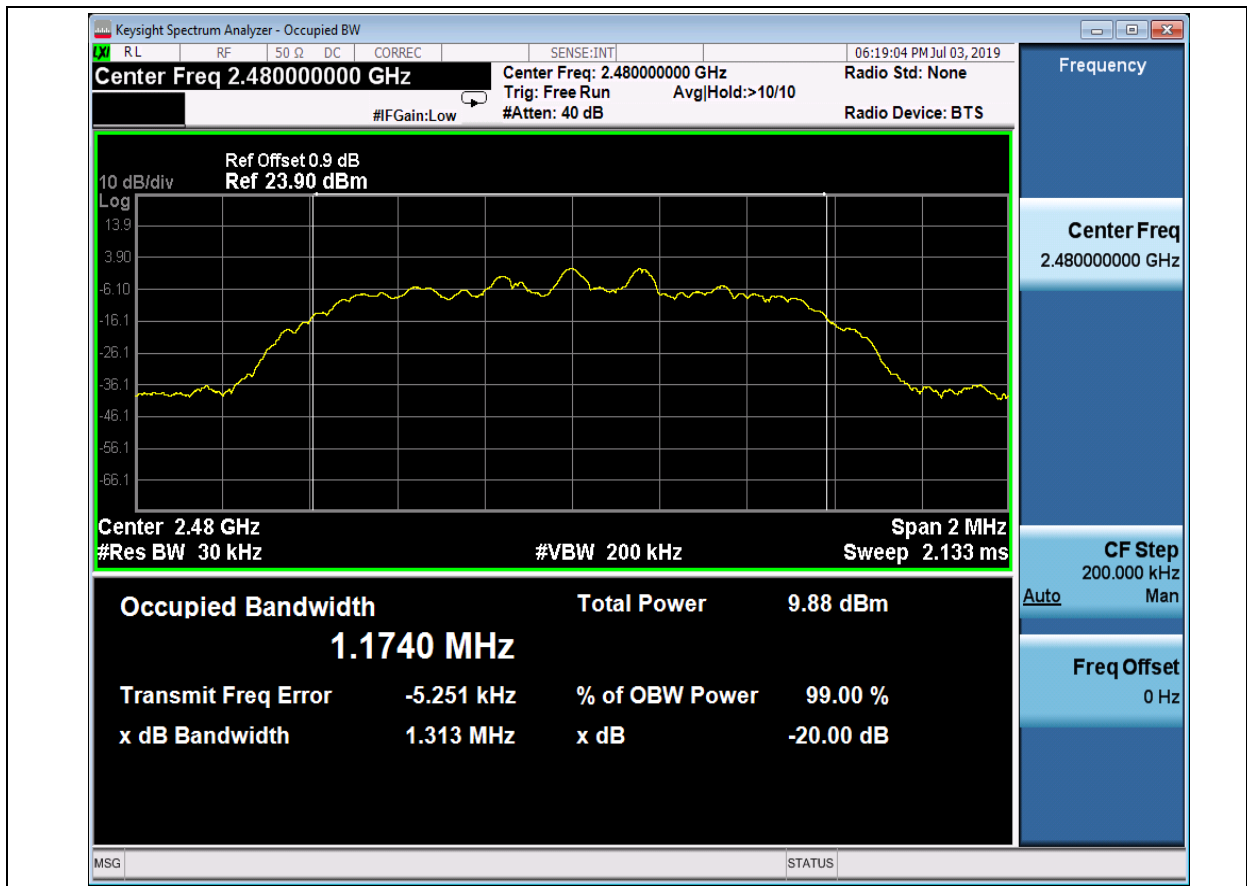
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## 2. Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	2.374	21	PASS
DH5	2441	3.109	21	PASS
DH5	2480	2.863	21	PASS
2DH5	2402	3.105	21	PASS
2DH5	2441	3.77	21	PASS
2DH5	2480	3.551	21	PASS



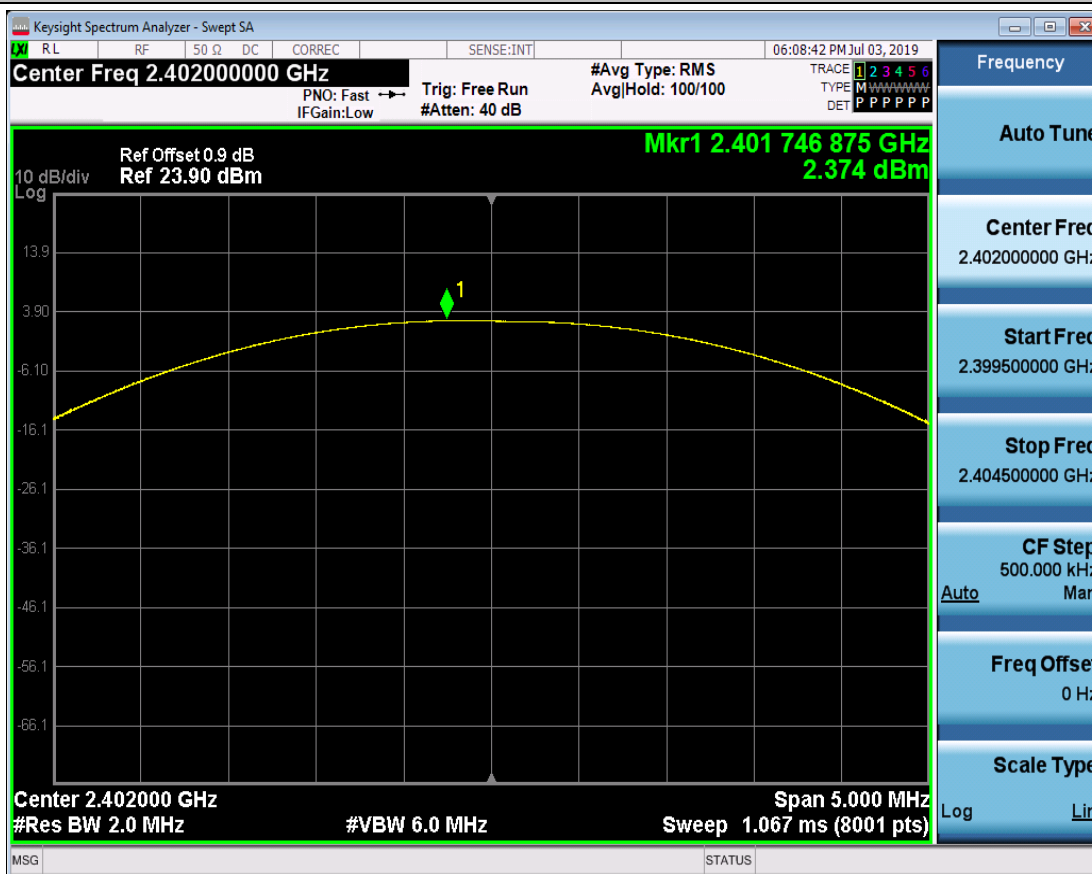
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## TEST PLOT

## Conducted Peak Output Power\_DH5\_2402



## Conducted Peak Output Power DH5 2441

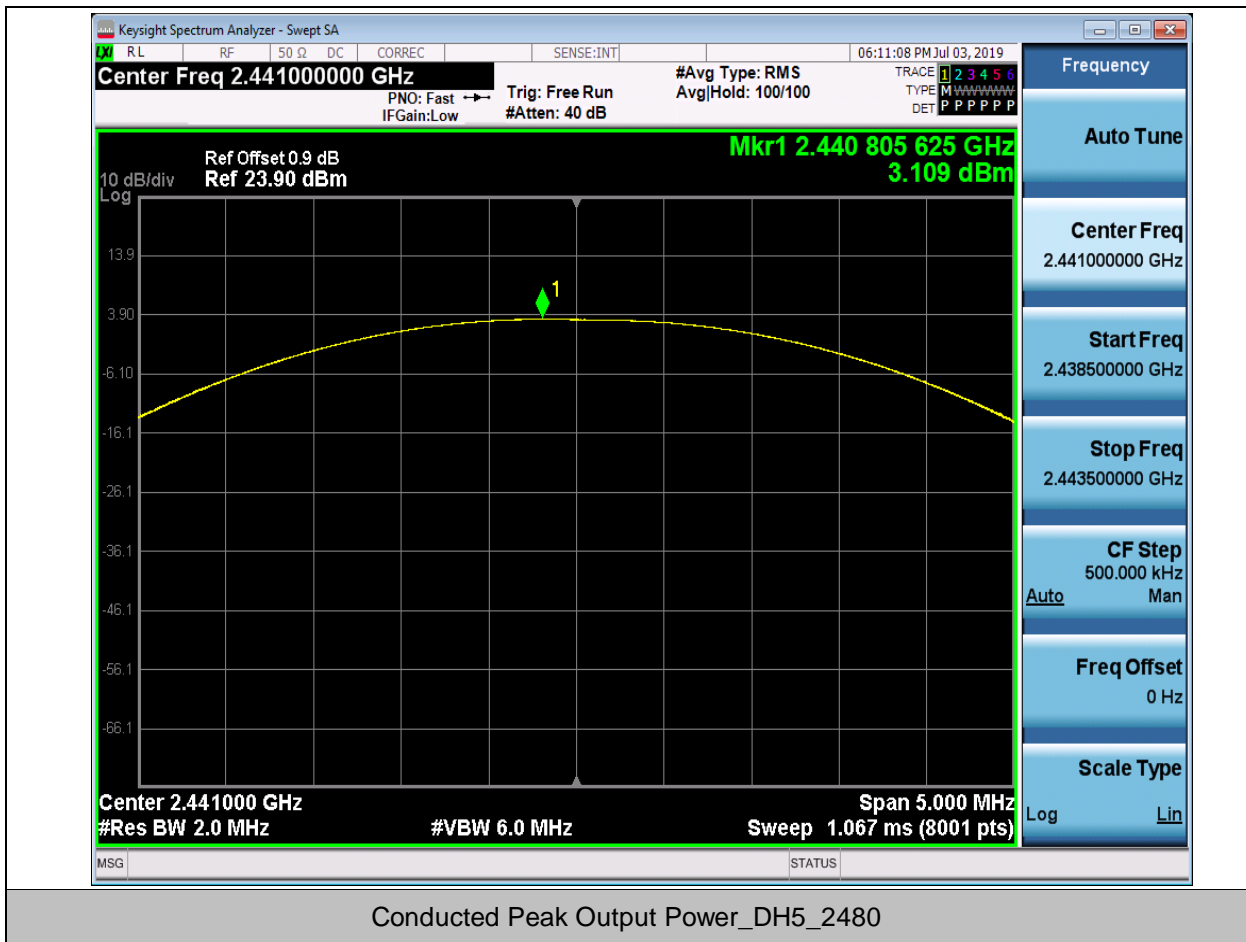


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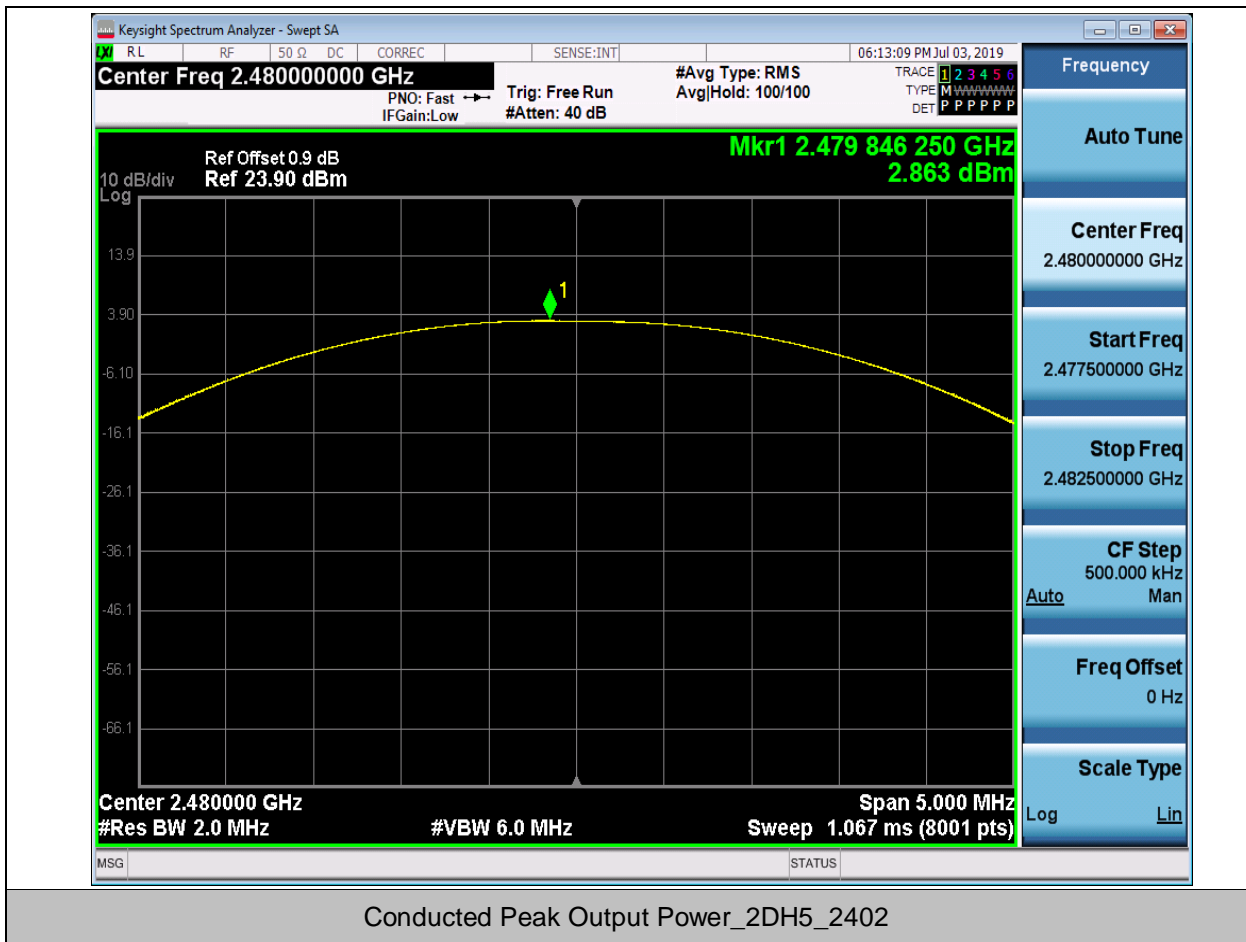
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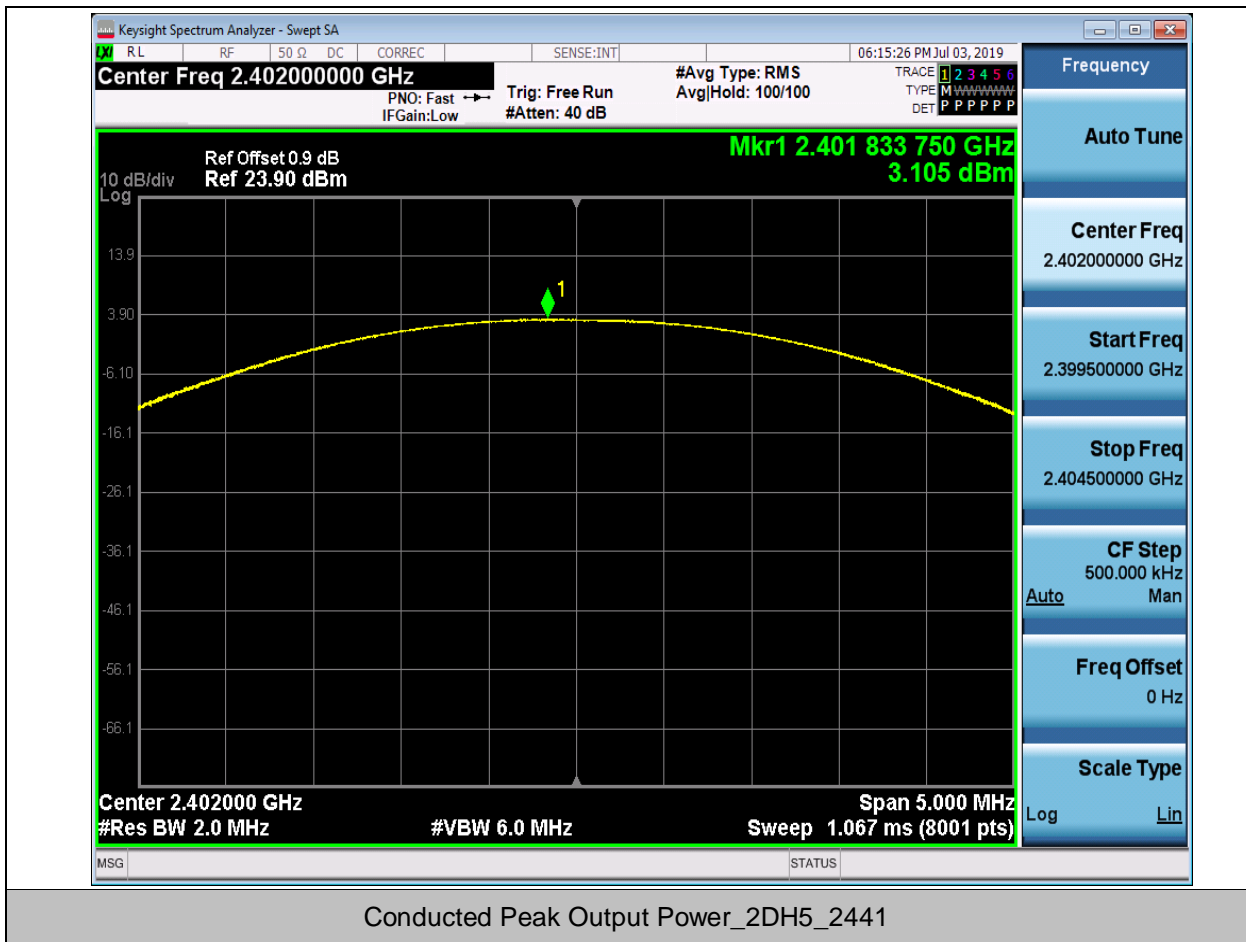
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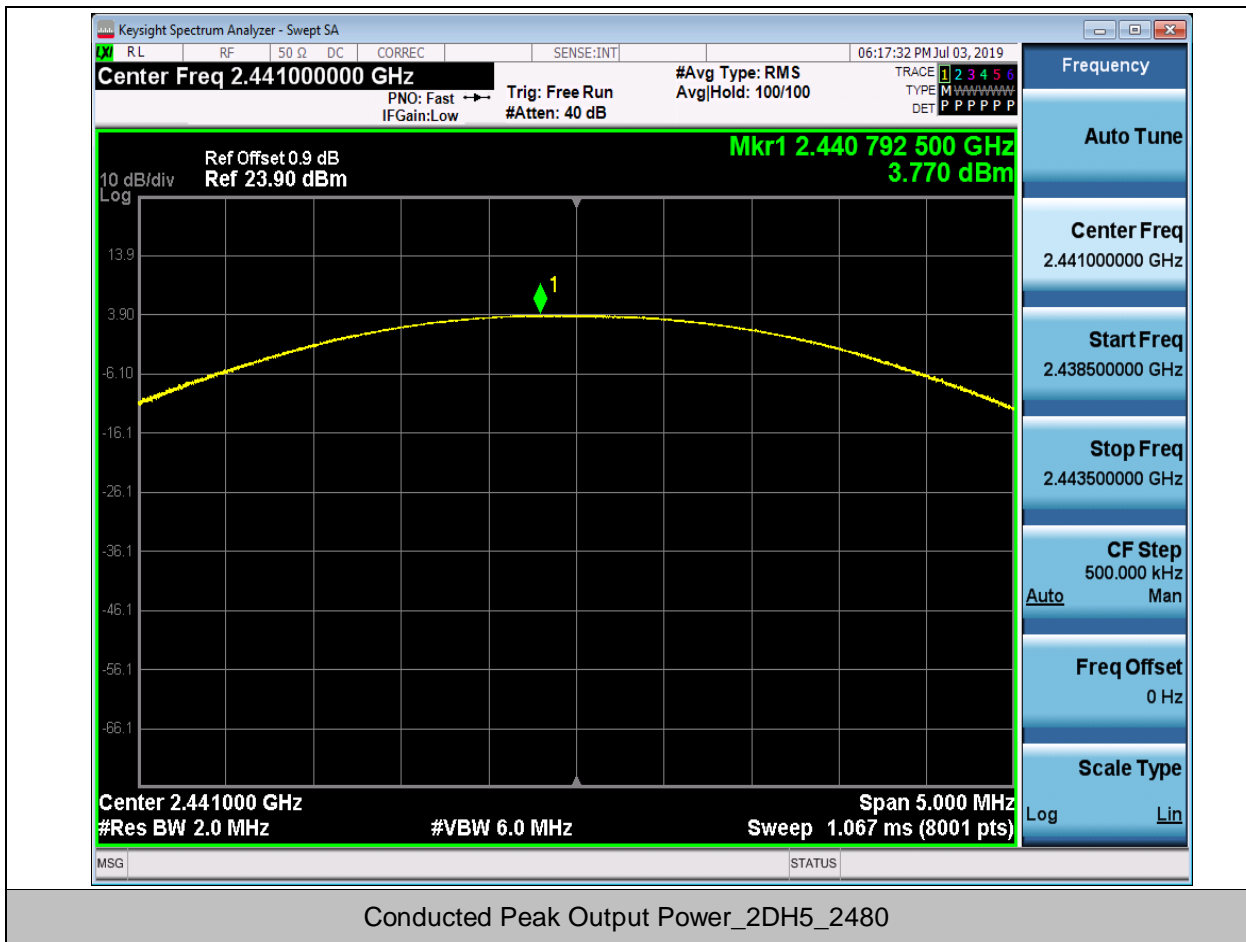
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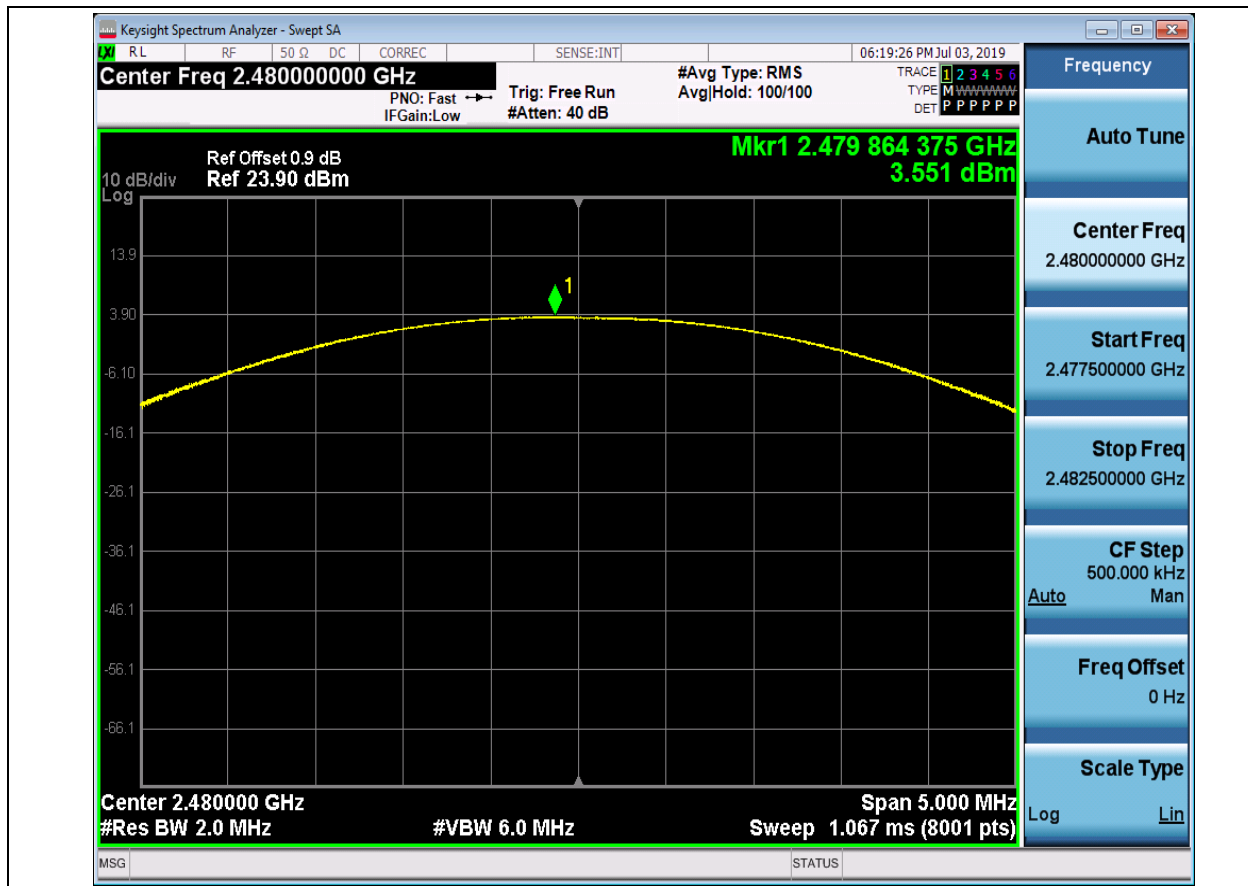
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### 3.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	1.104	0.6318	PASS
DH5	2441	1.02	0.6337	PASS
DH5	2480	0.86	0.6333	PASS



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## TEST PLOT

### Carrier Frequency Separation\_DH5\_2402



### Carrier Frequency Separation\_DH5\_2441

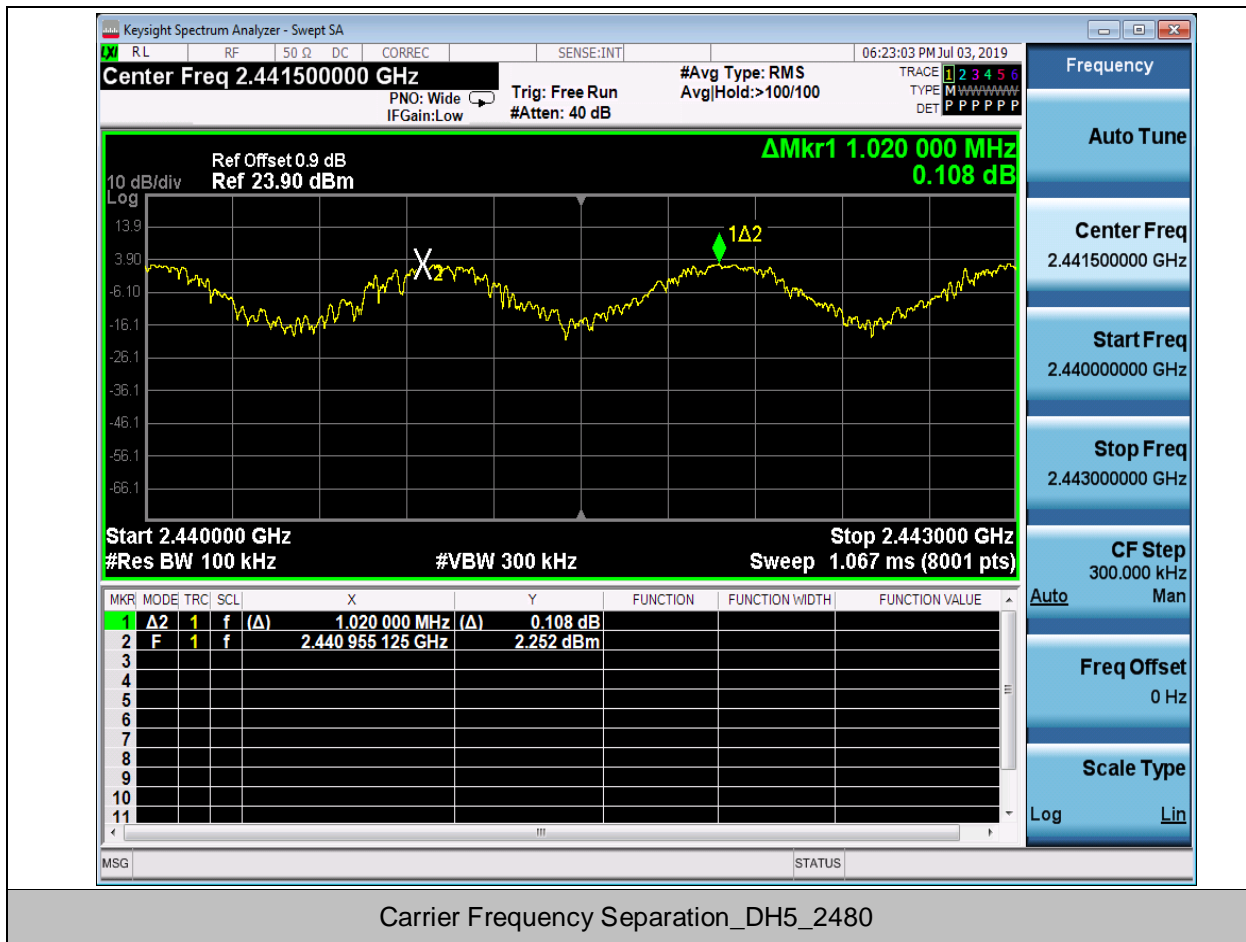


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## 4.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.88	70	0.20	0.4	PASS
DH5	2441	2.88	70	0.20	0.4	PASS
DH5	2480	2.88	40	0.12	0.4	PASS
2DH5	2402	2.88	40	0.12	0.4	PASS
2DH5	2441	2.88	60	0.17	0.4	PASS
2DH5	2480	2.88	100	0.28	0.4	PASS



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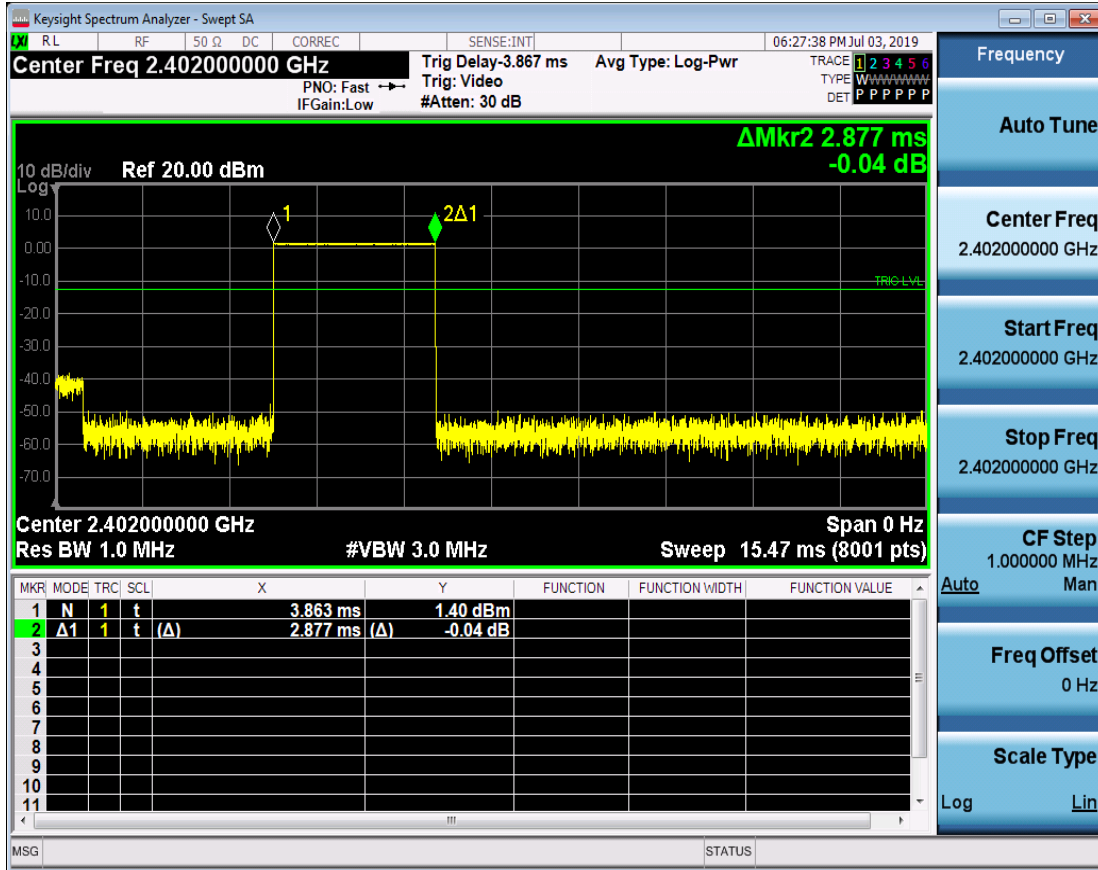
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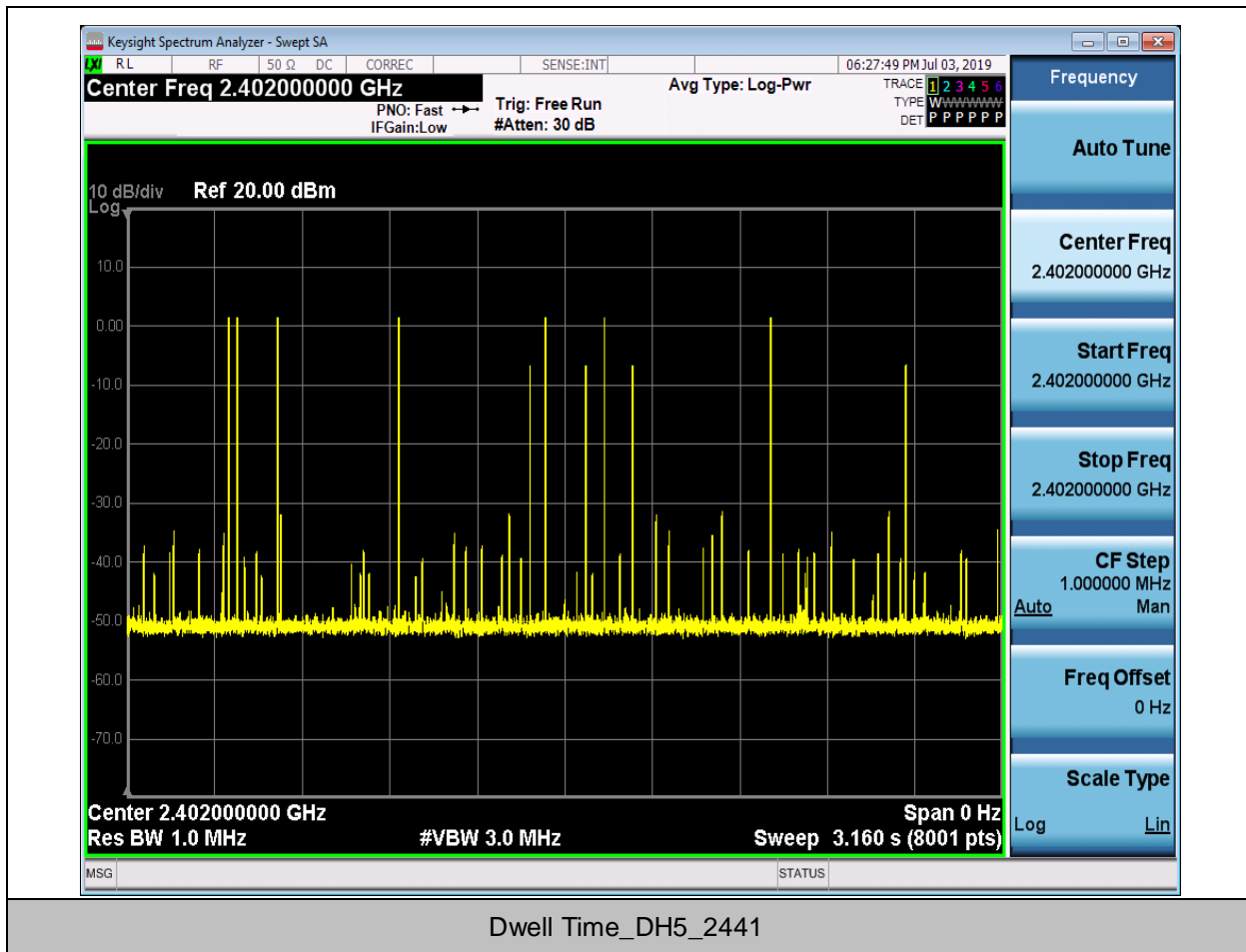
### TEST PLOT

Dwell Time\_DH5\_2402



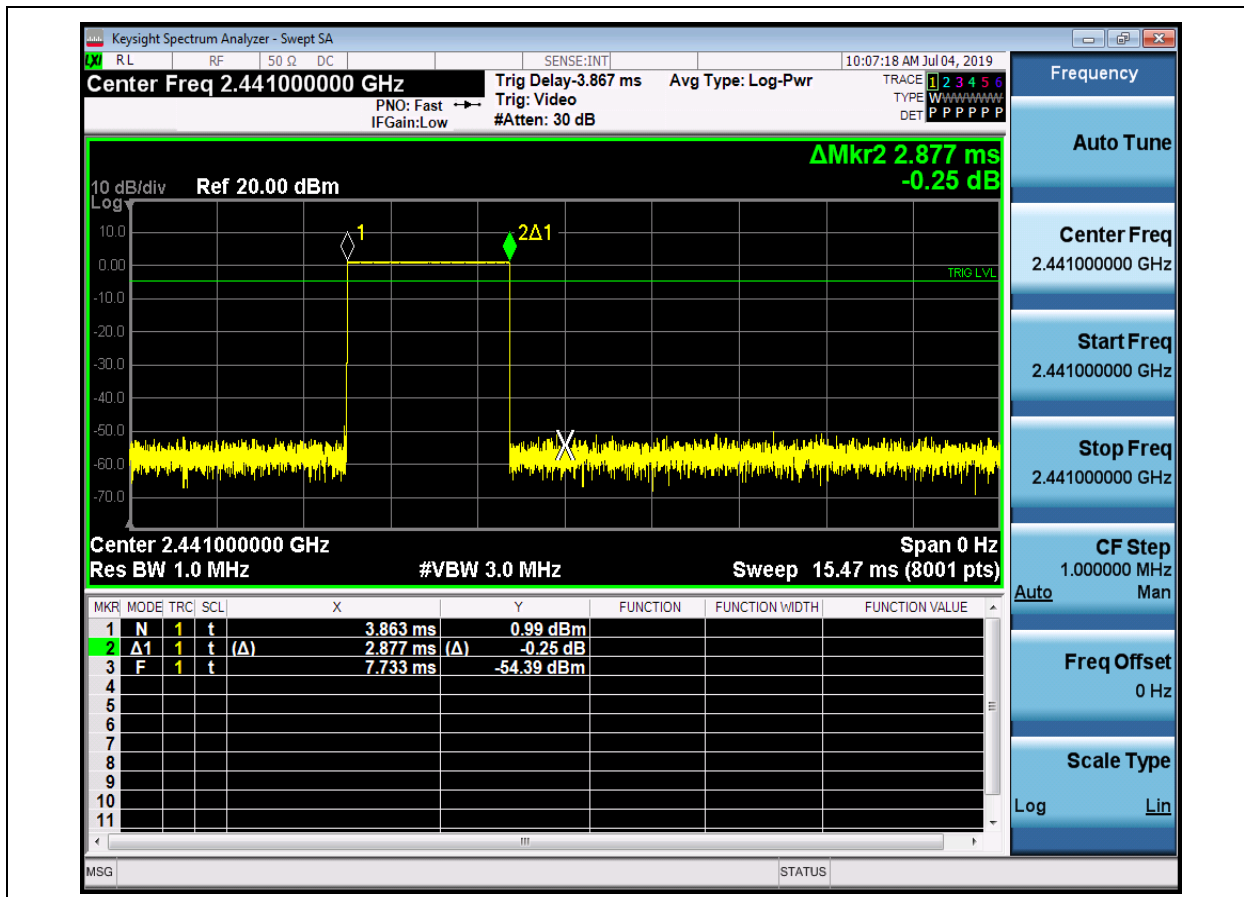
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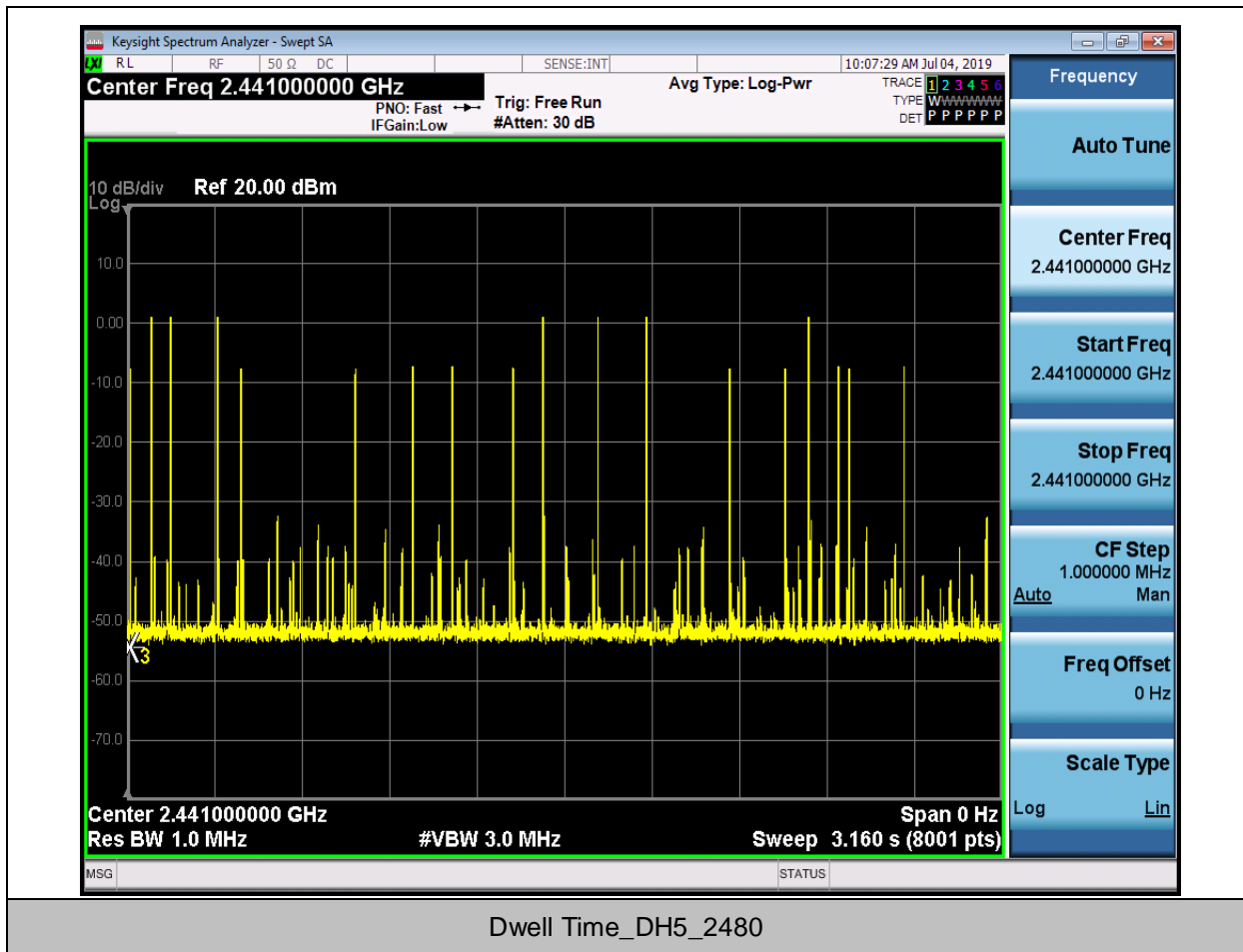
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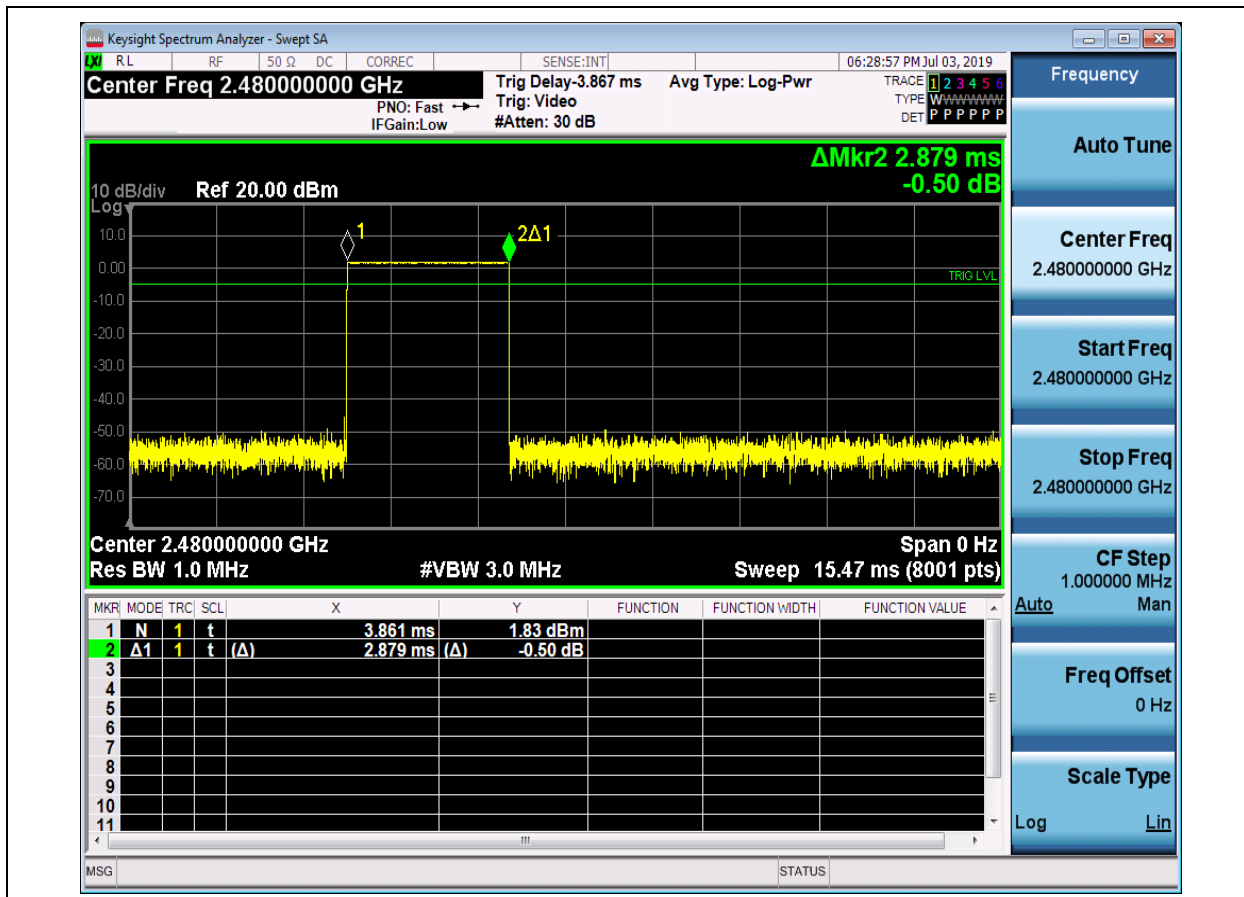
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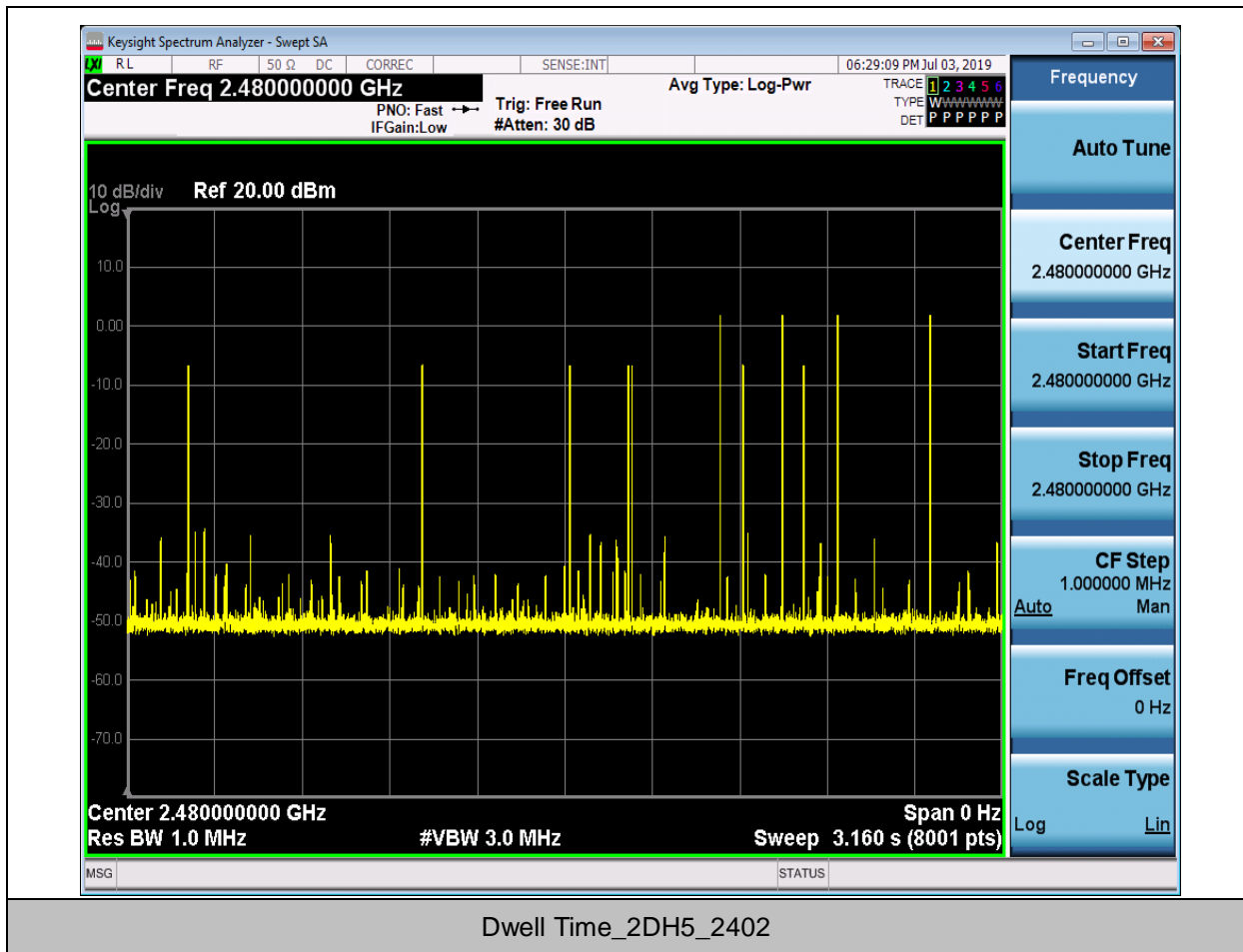
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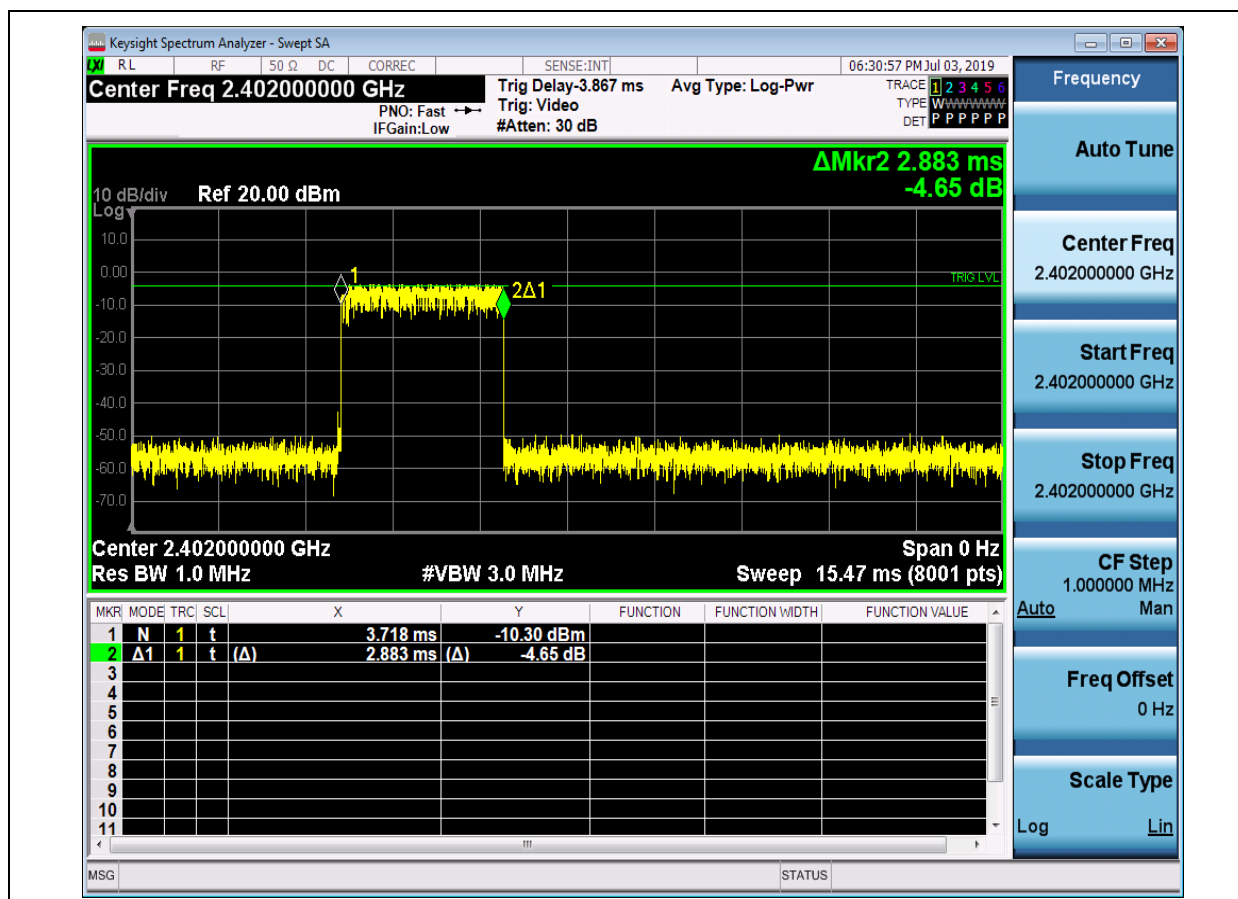
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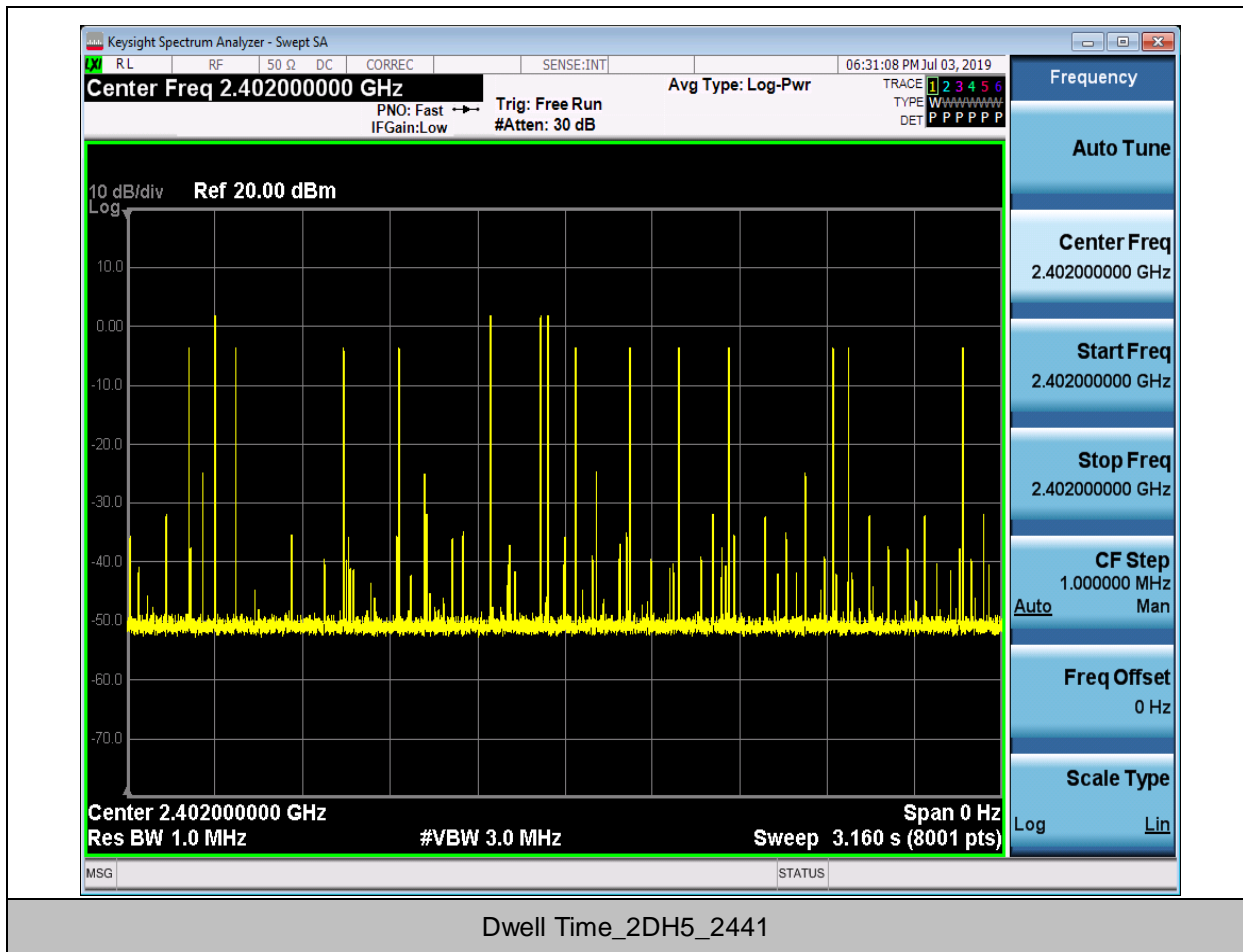


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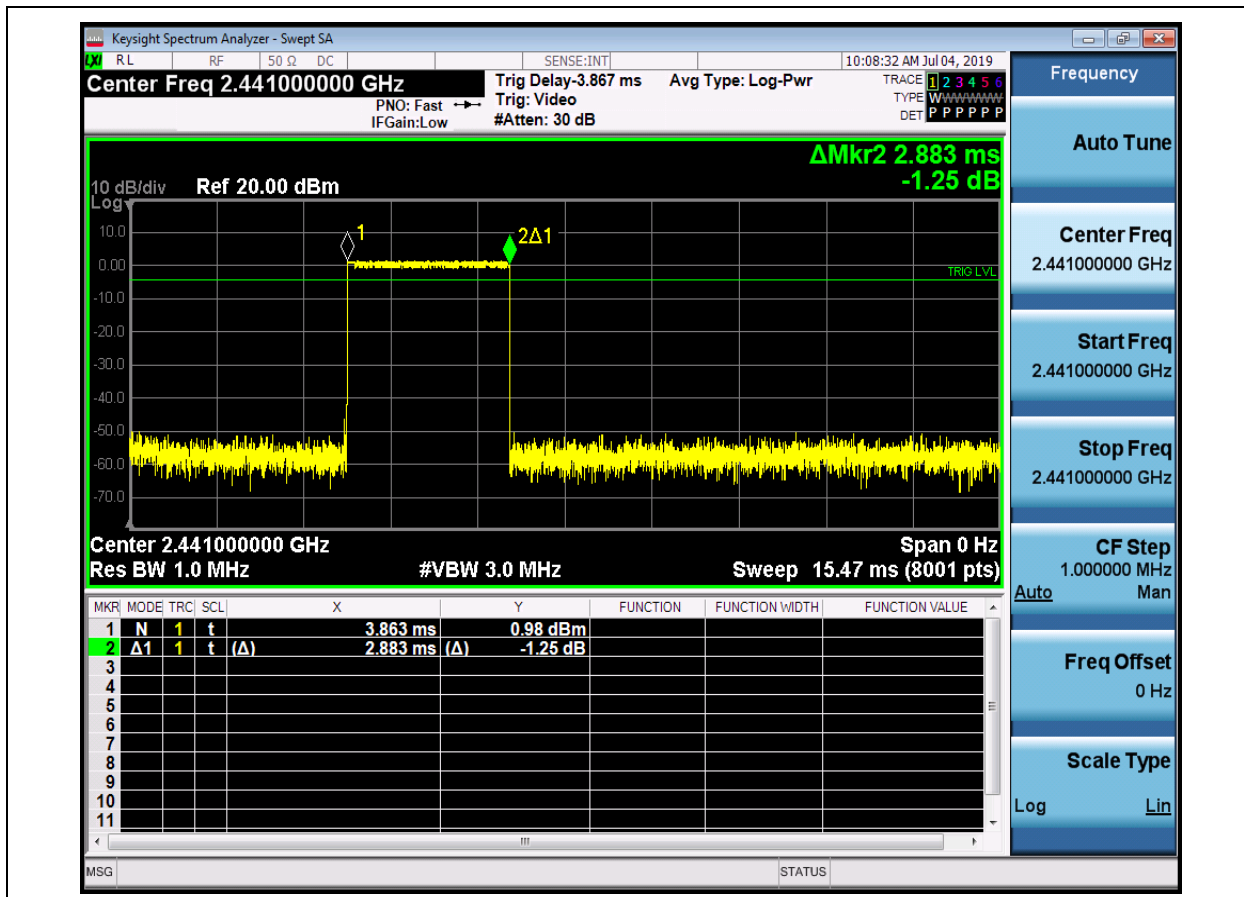
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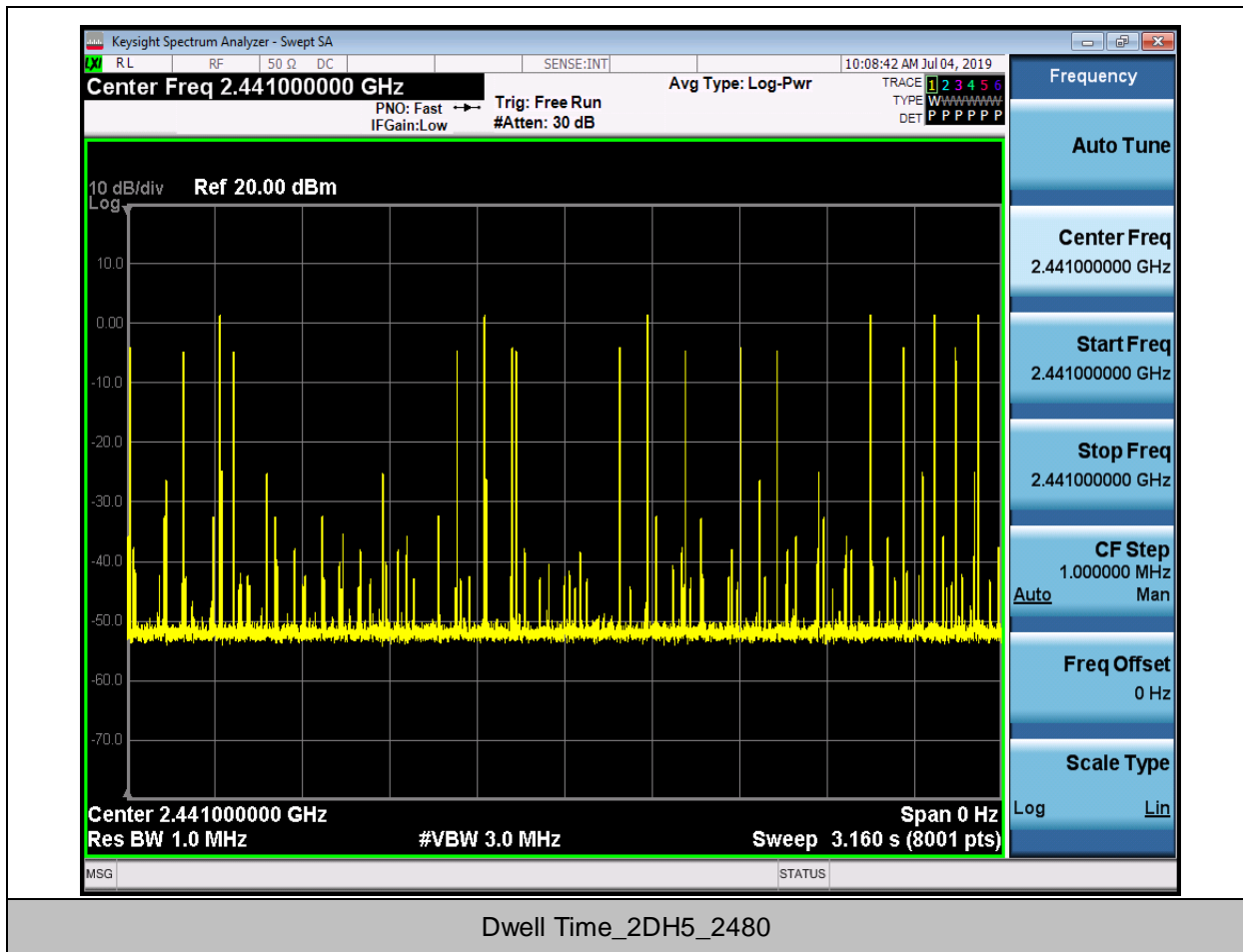
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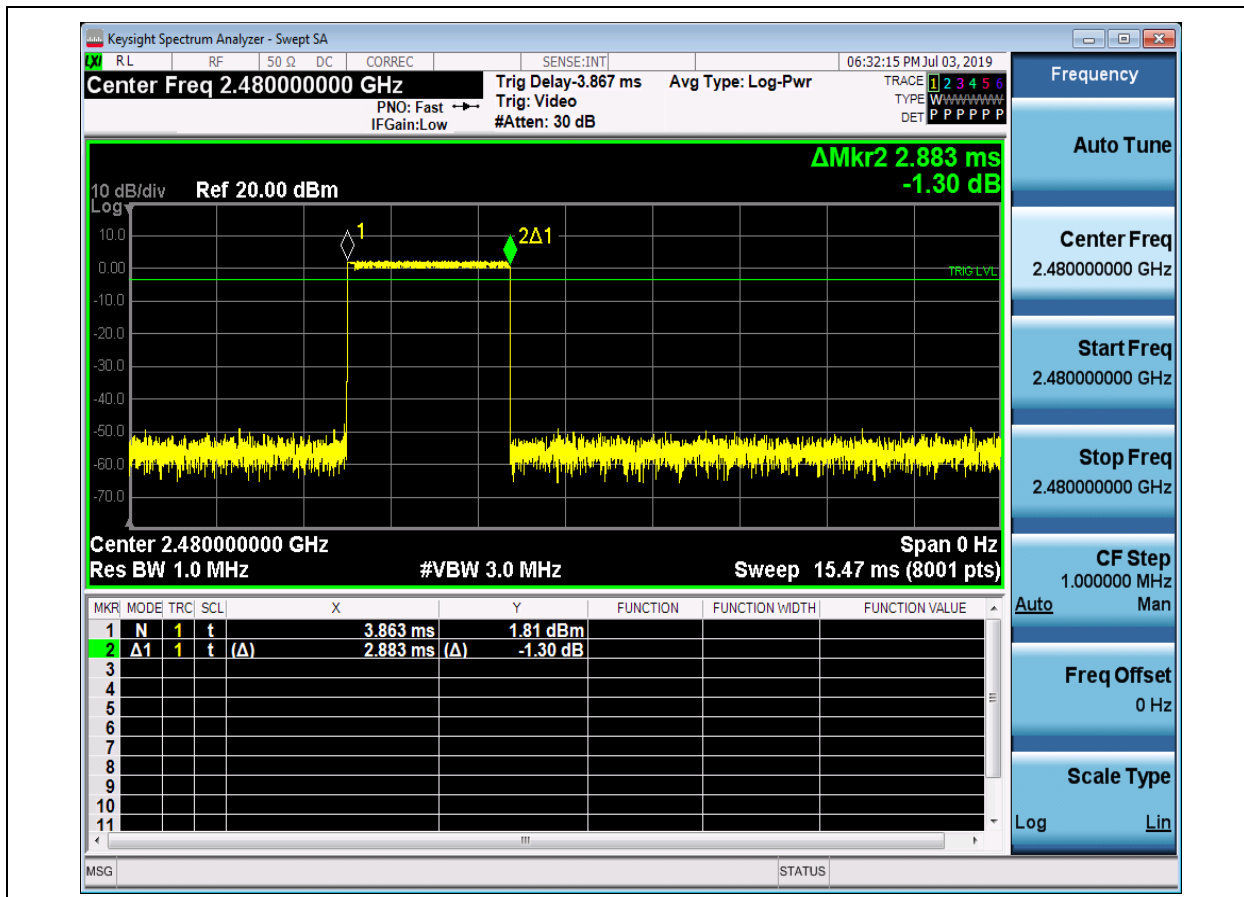
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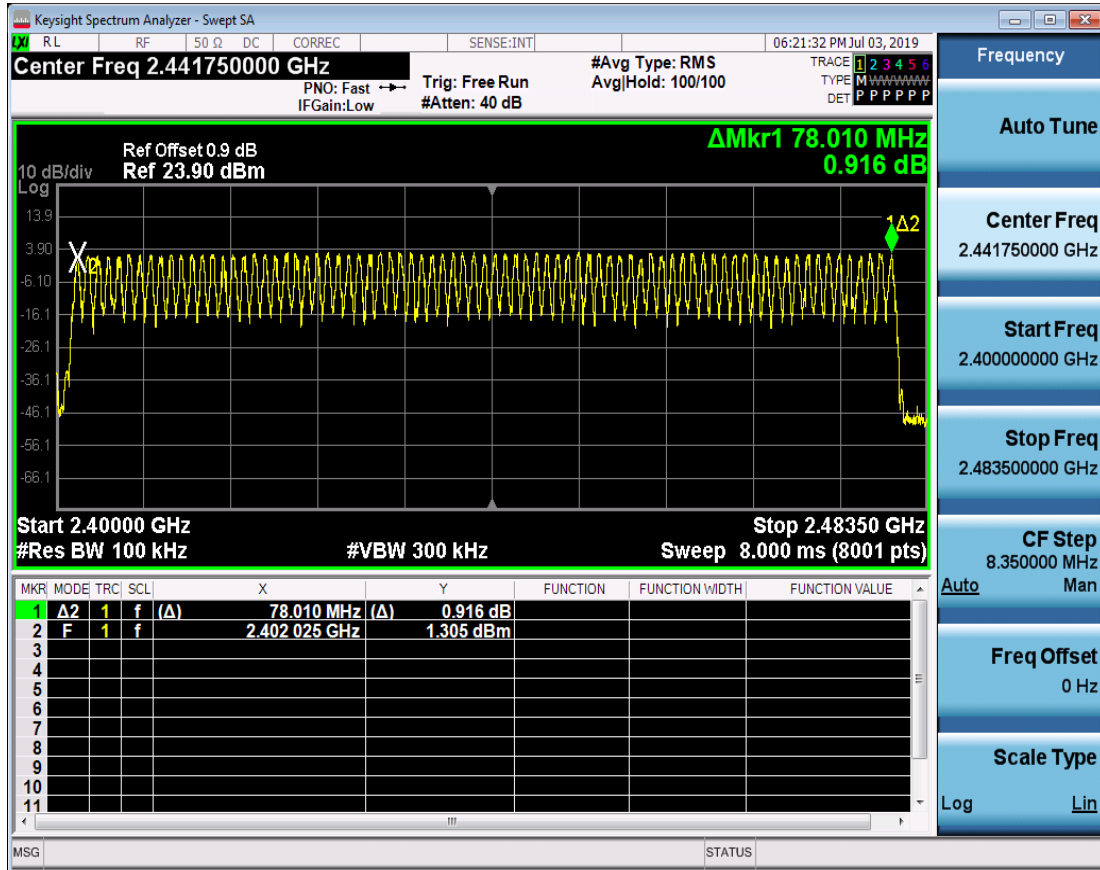
## 5.Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	All channel hopping	79	$\geq 15$	PASS
2DH5	All channel hopping	79	$\geq 15$	PASS



## TEST PLOT

Hopping Channel Number\_DH5\_2402



Hopping Channel Number\_2DH5\_2402

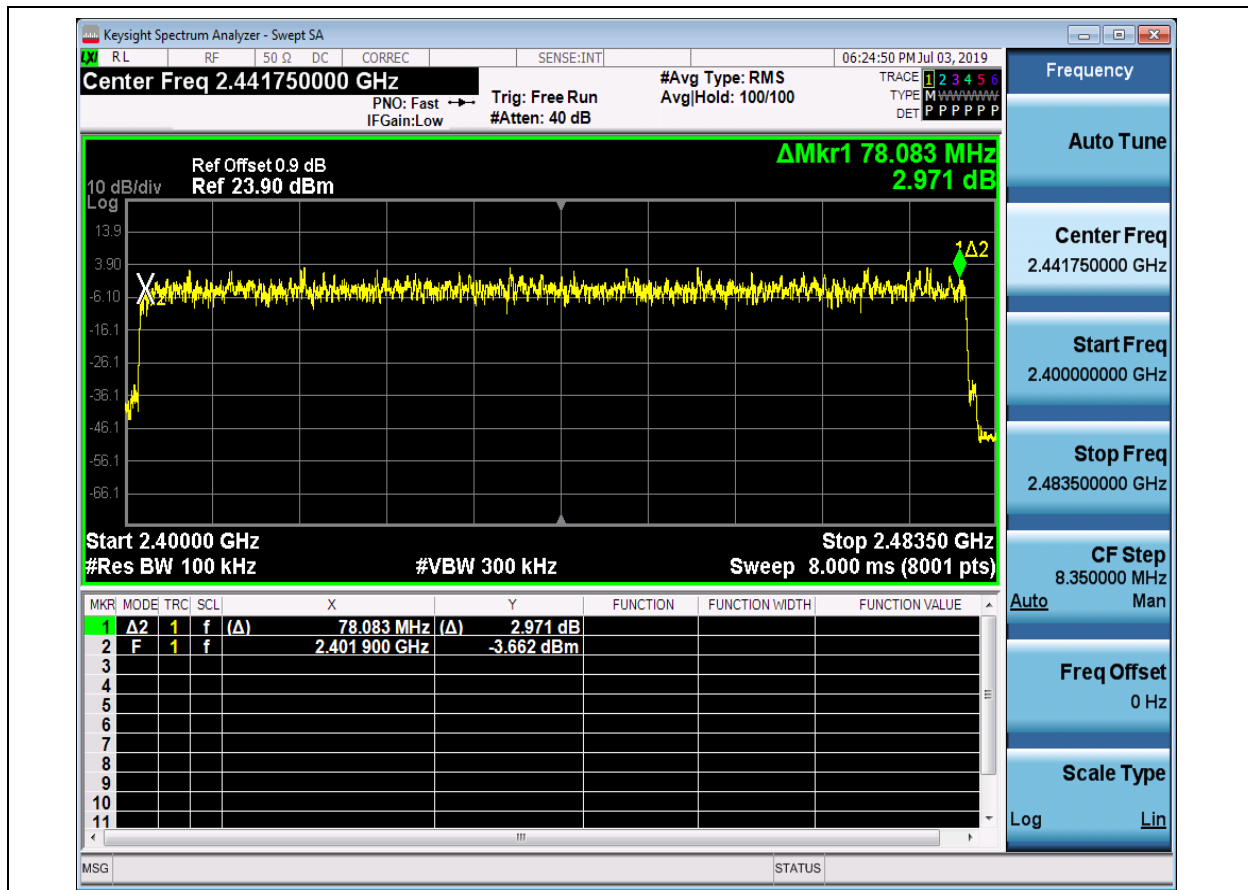


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## 6. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	2.671	-47.100	-17.33	PASS
DH5	2402	Off	2.250	-47.625	-17.75	PASS
DH5	2480	On	2.931	-41.268	-17.07	PASS
DH5	2480	Off	2.566	-44.322	-17.43	PASS
2DH5	2402	On	2.650	-46.214	-17.35	PASS
2DH5	2402	Off	2.223	-47.398	-17.78	PASS
2DH5	2480	On	3.165	-44.658	-16.84	PASS
2DH5	2480	Off	2.595	-44.710	-17.41	PASS



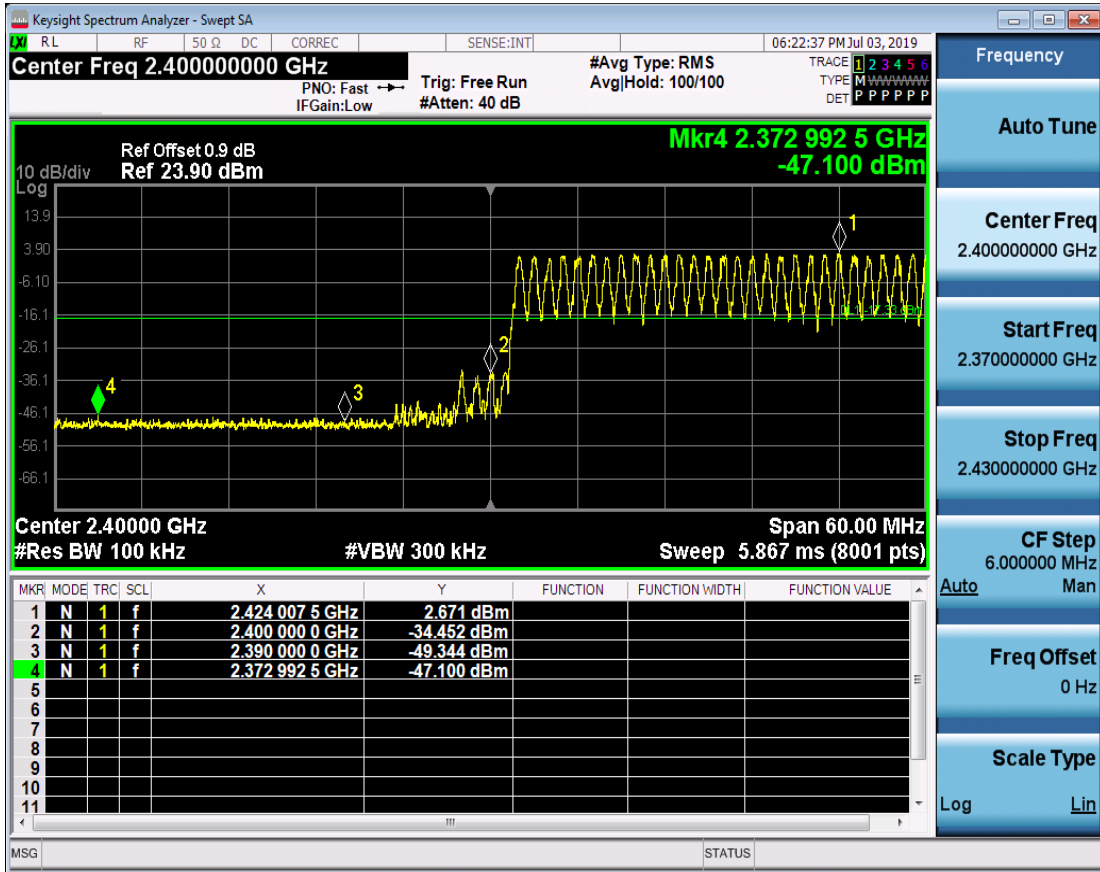
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## TEST PLOT

### Band-edge for RF Conducted Emissions\_DH5\_2402\_Hopping On



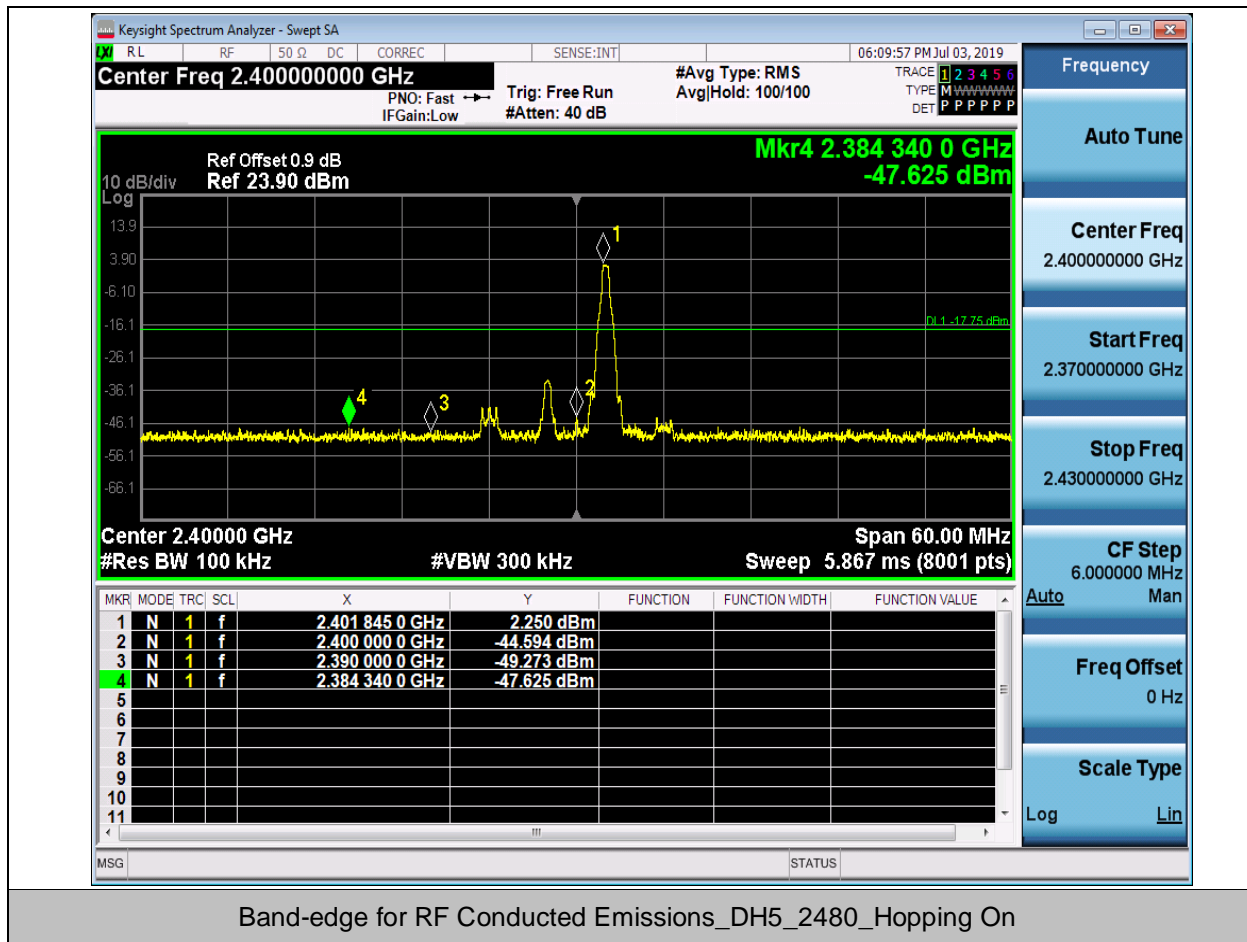
### Band-edge for RF Conducted Emissions\_DH5\_2402\_Hopping Off



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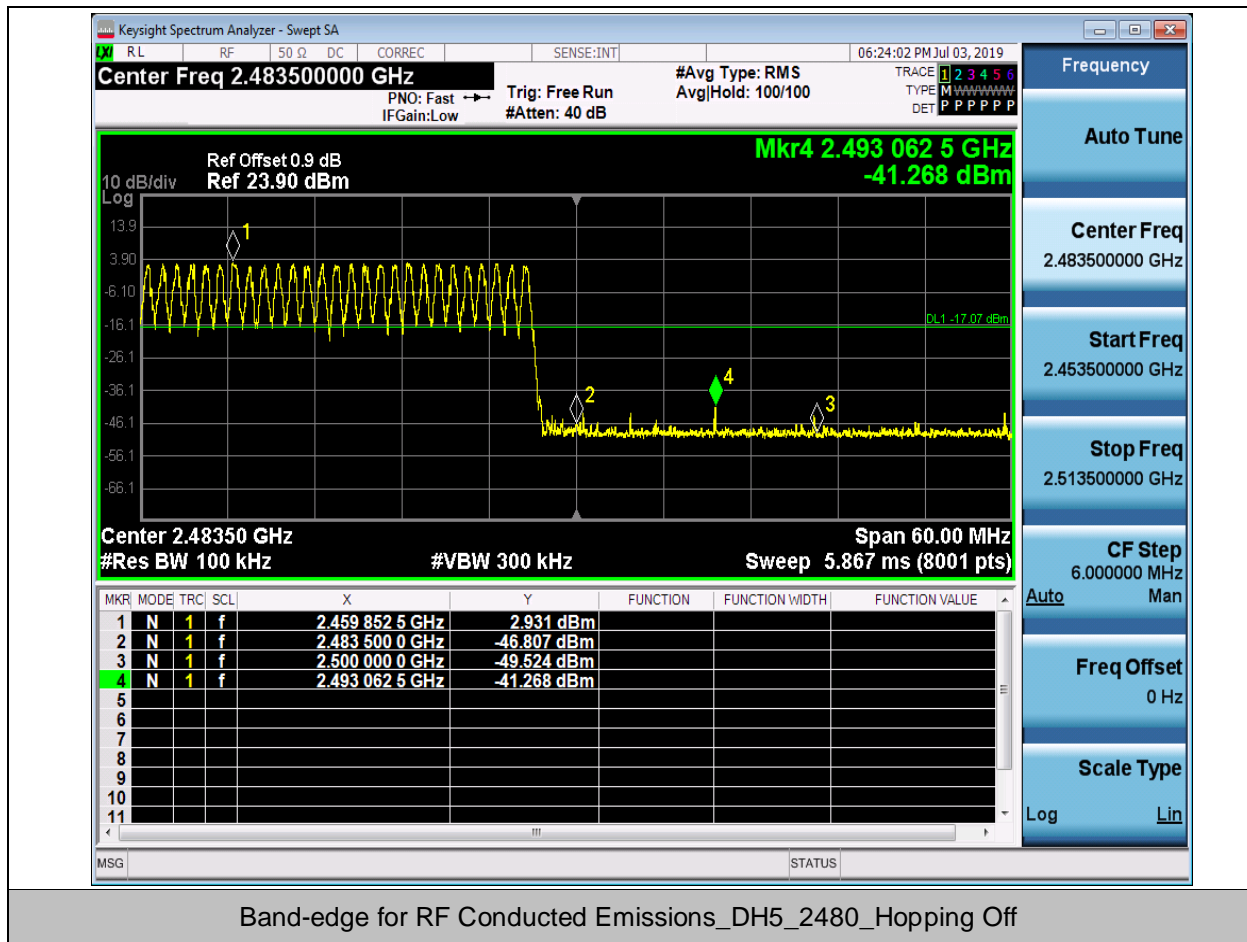
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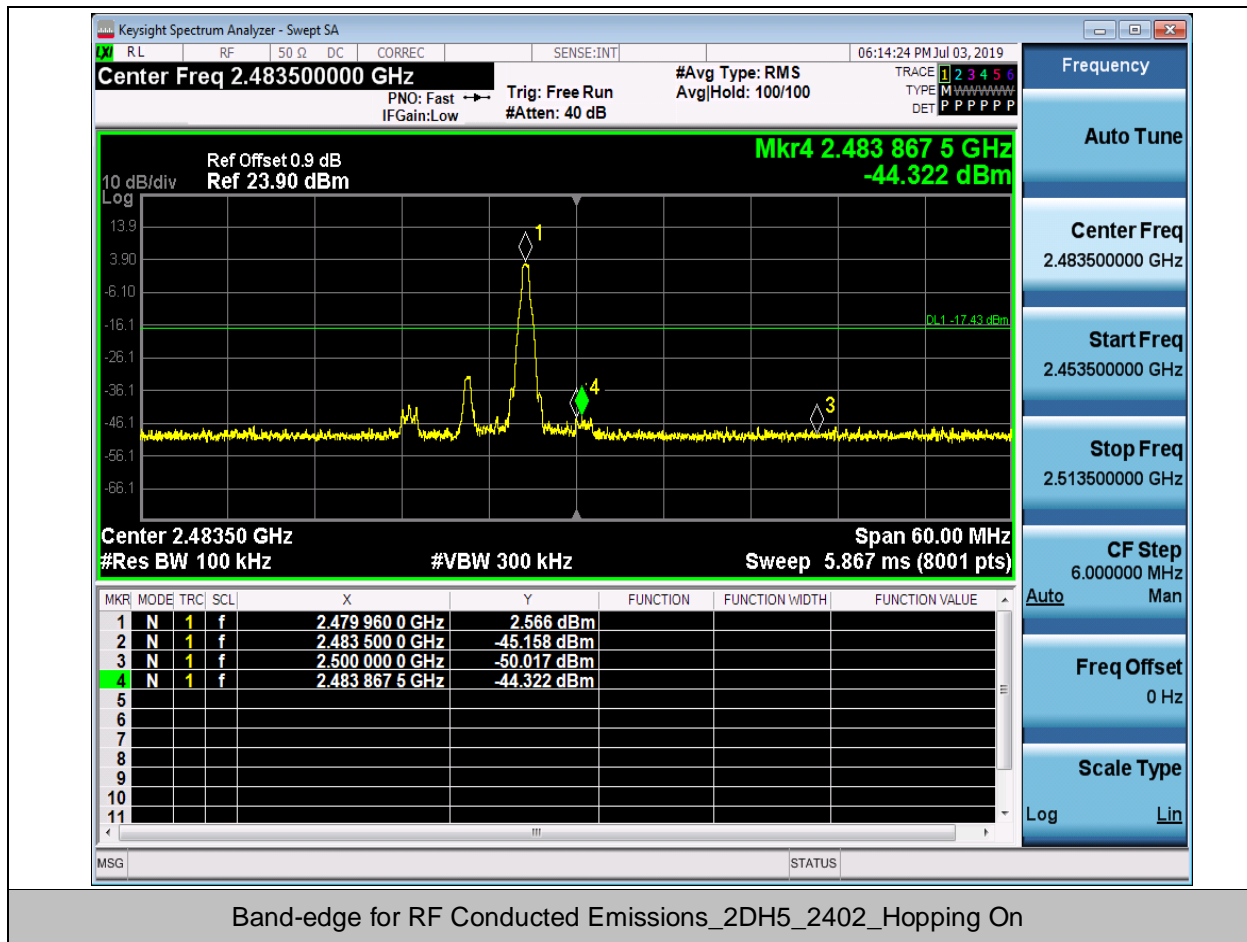
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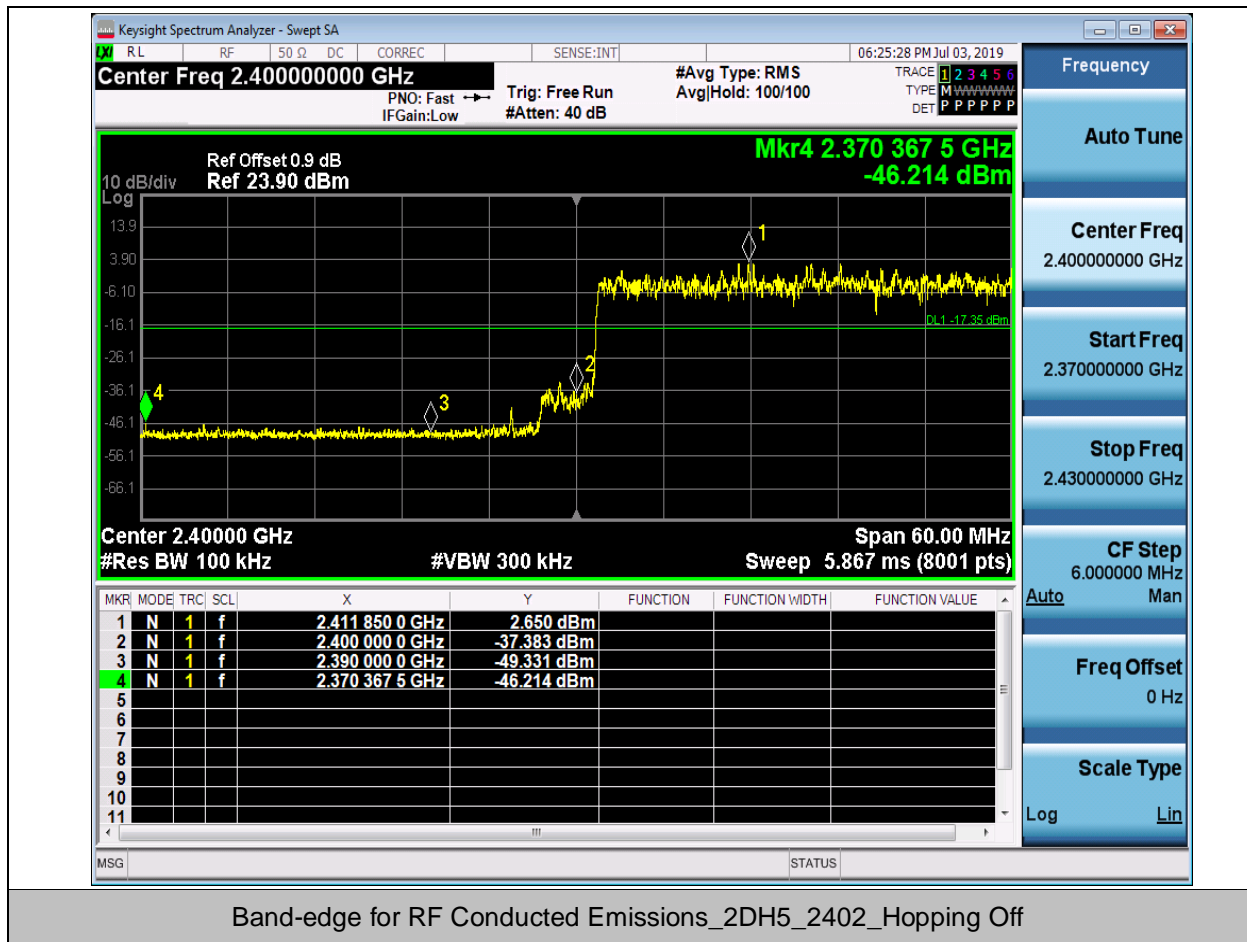
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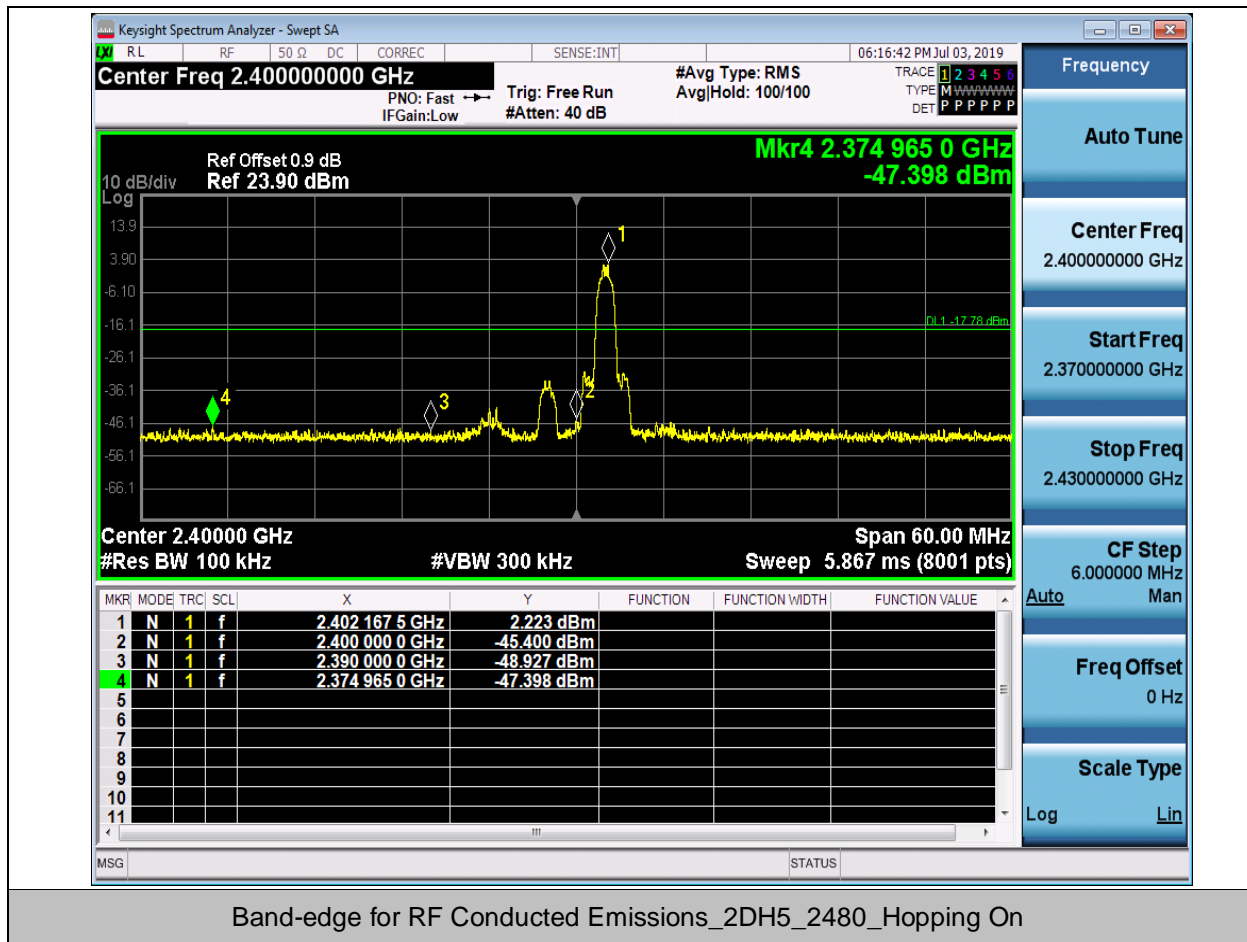
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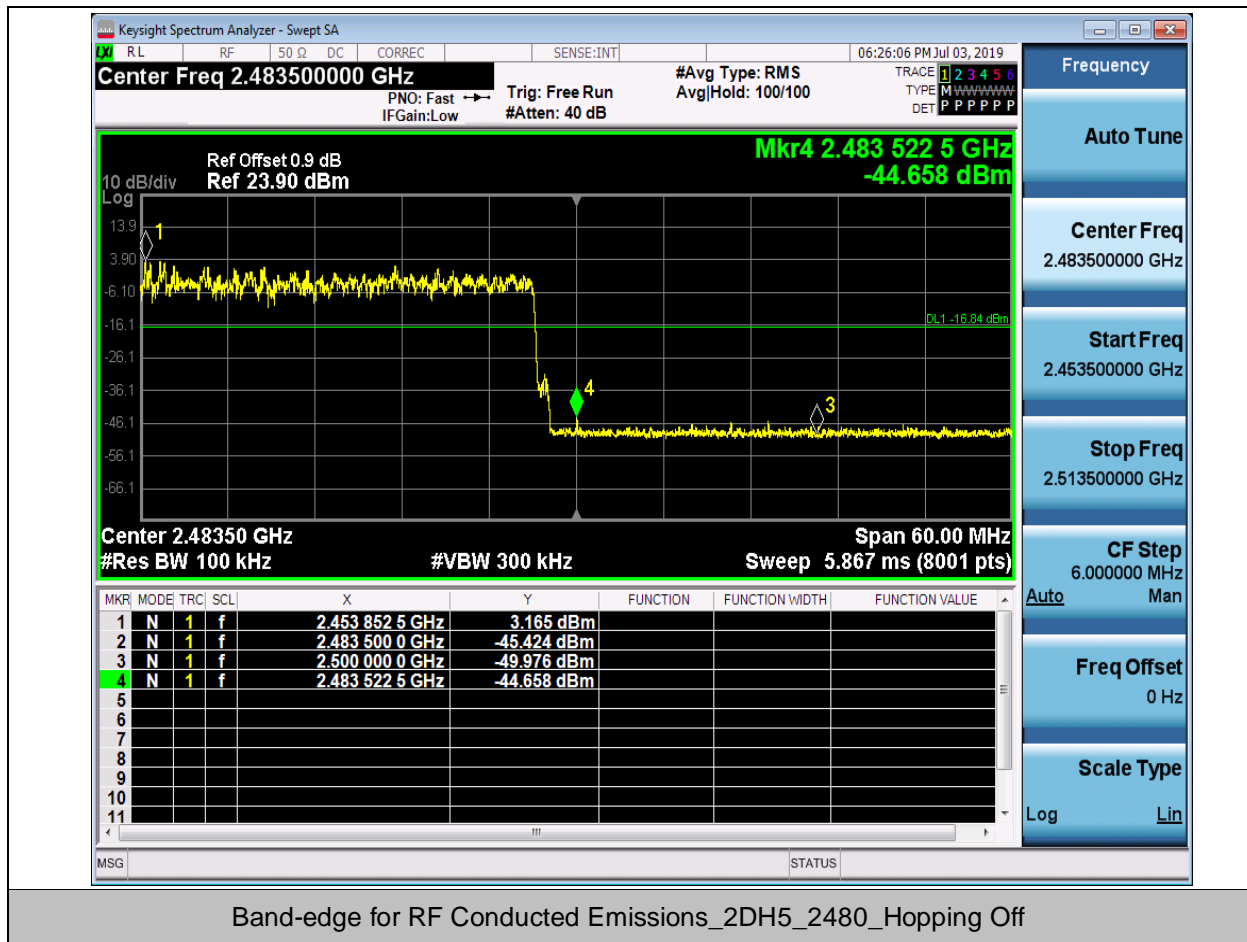
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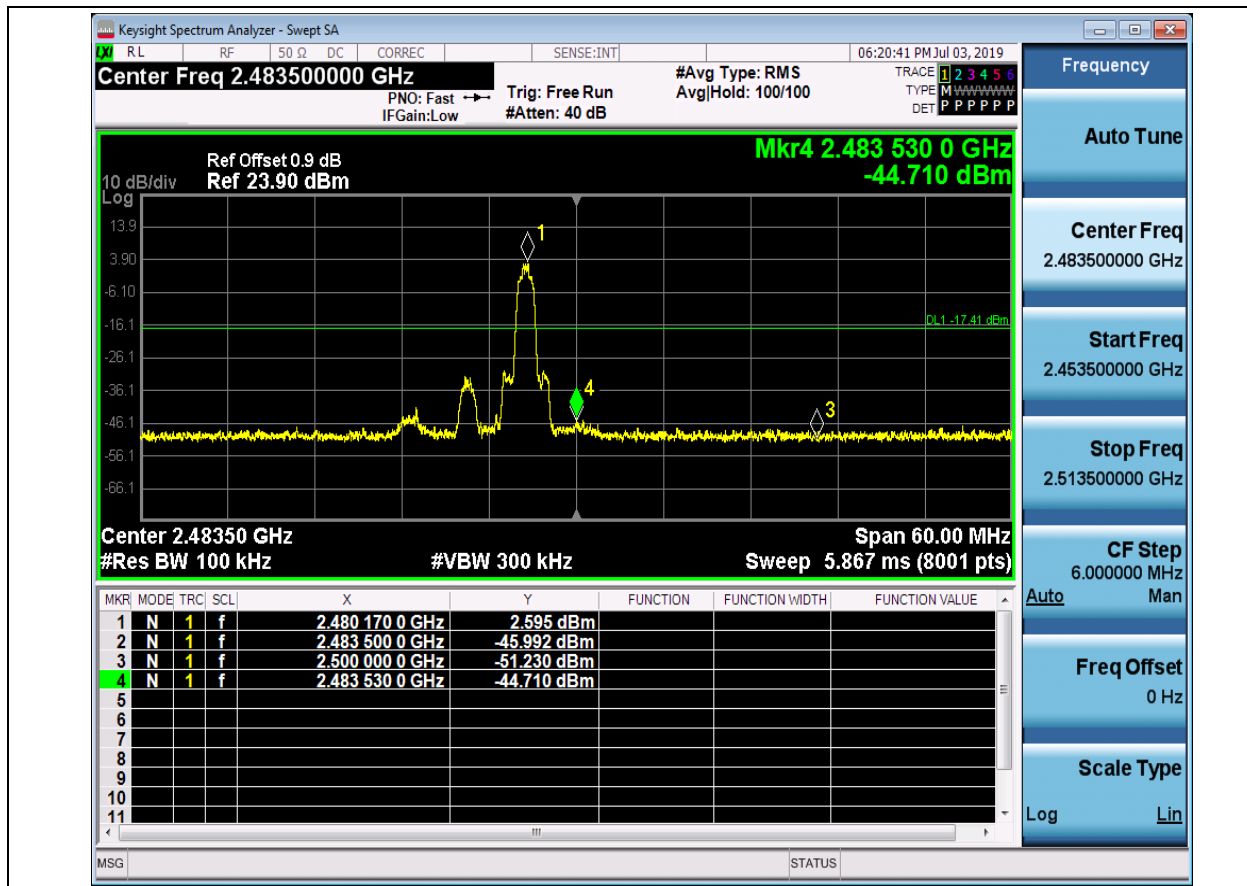
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## 7.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	100	300	2.27	-43.316	<-17.73	PASS
DH5	2402	10000	26000	100	300	2.27	-47.774	<-17.73	PASS
DH5	2441	30	10000	100	300	2.758	-41.585	<-17.242	PASS
DH5	2441	10000	26000	100	300	2.758	-48.182	<-17.242	PASS
DH5	2480	30	10000	100	300	2.438	-41.865	<-17.562	PASS
DH5	2480	10000	26000	100	300	2.438	-48.166	<-17.562	PASS
2DH5	2402	30	10000	100	300	2.183	-43.268	<-17.817	PASS
2DH5	2402	10000	26000	100	300	2.183	-47.902	<-17.817	PASS
2DH5	2441	30	10000	100	300	2.902	-44.927	<-17.098	PASS
2DH5	2441	10000	26000	100	300	2.902	-46.051	<-17.098	PASS
2DH5	2480	30	10000	100	300	2.624	-45.195	<-17.376	PASS



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2DH5	2480	10000	26000	100	300	2.624	-47.933	<-17.376	PASS
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### TEST PLOT

#### RF Conducted Spurious Emissions\_DH5\_2402

Pref

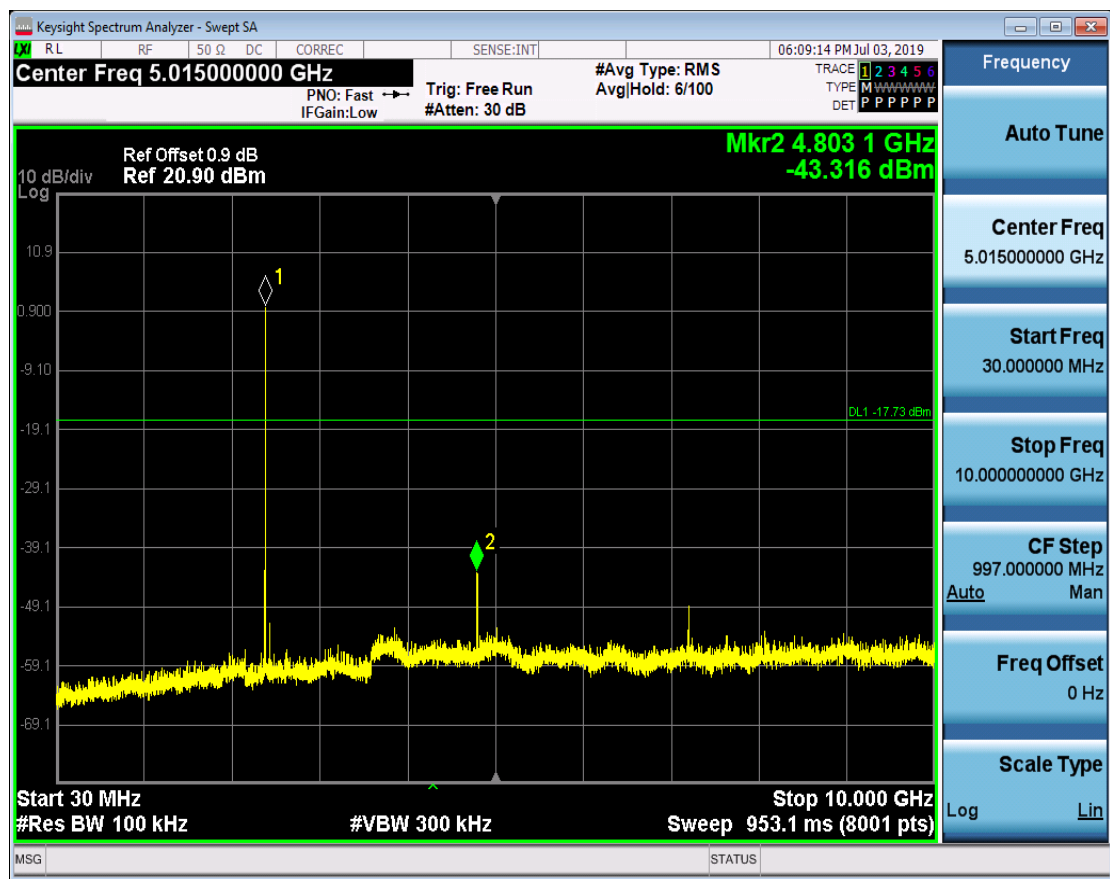


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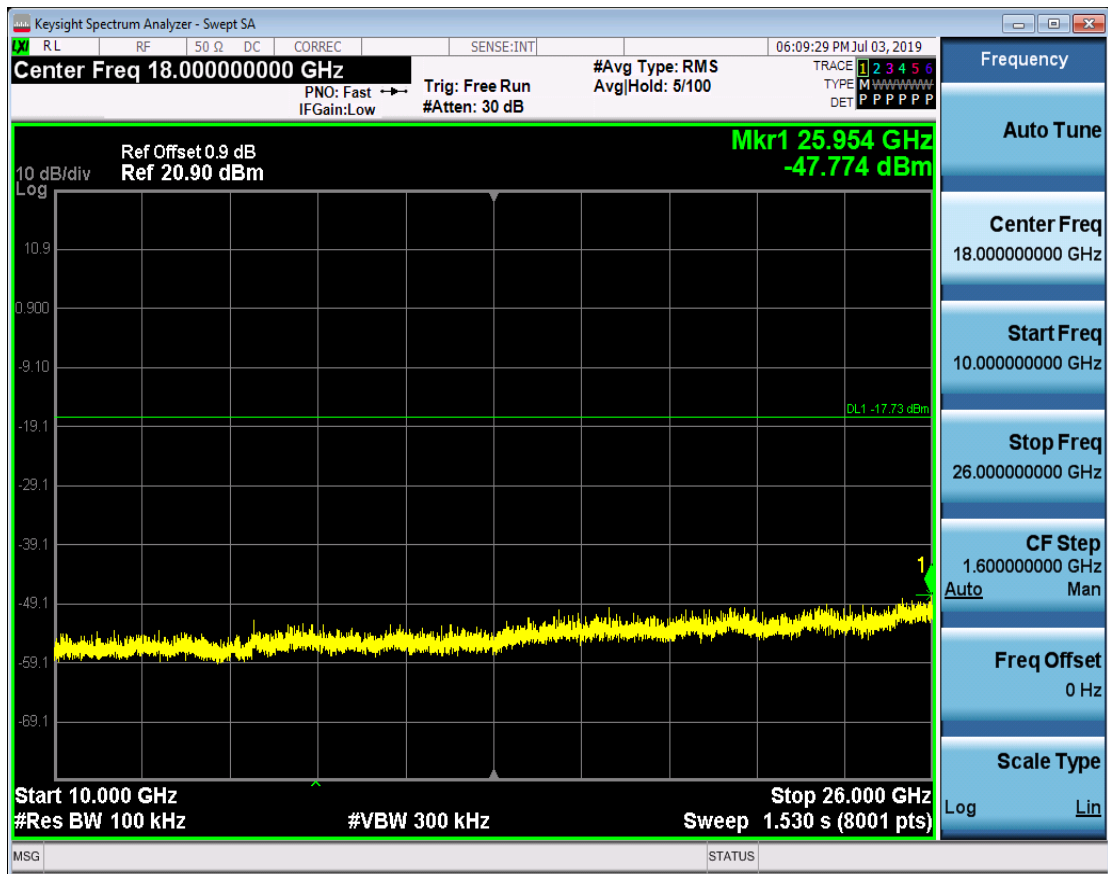
CSE\_1



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CSE\_2



RF Conducted Spurious Emissions\_DH5\_2441



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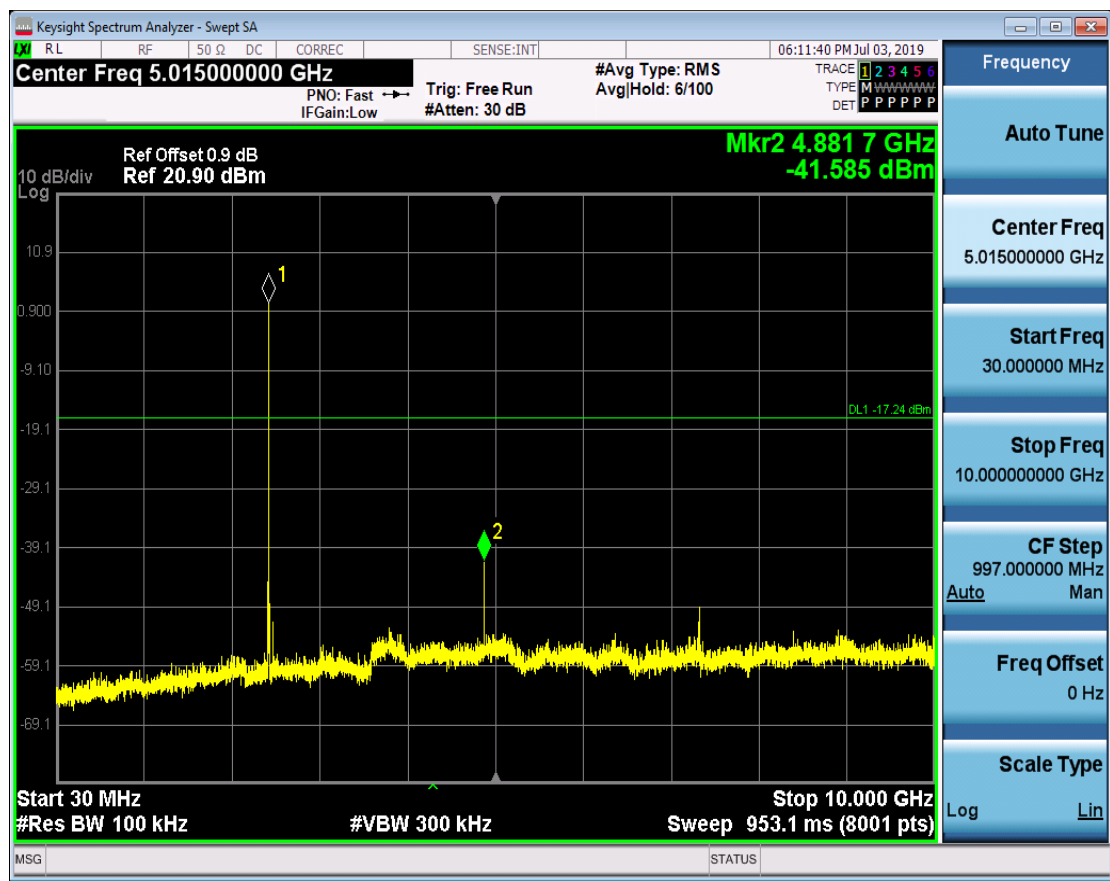


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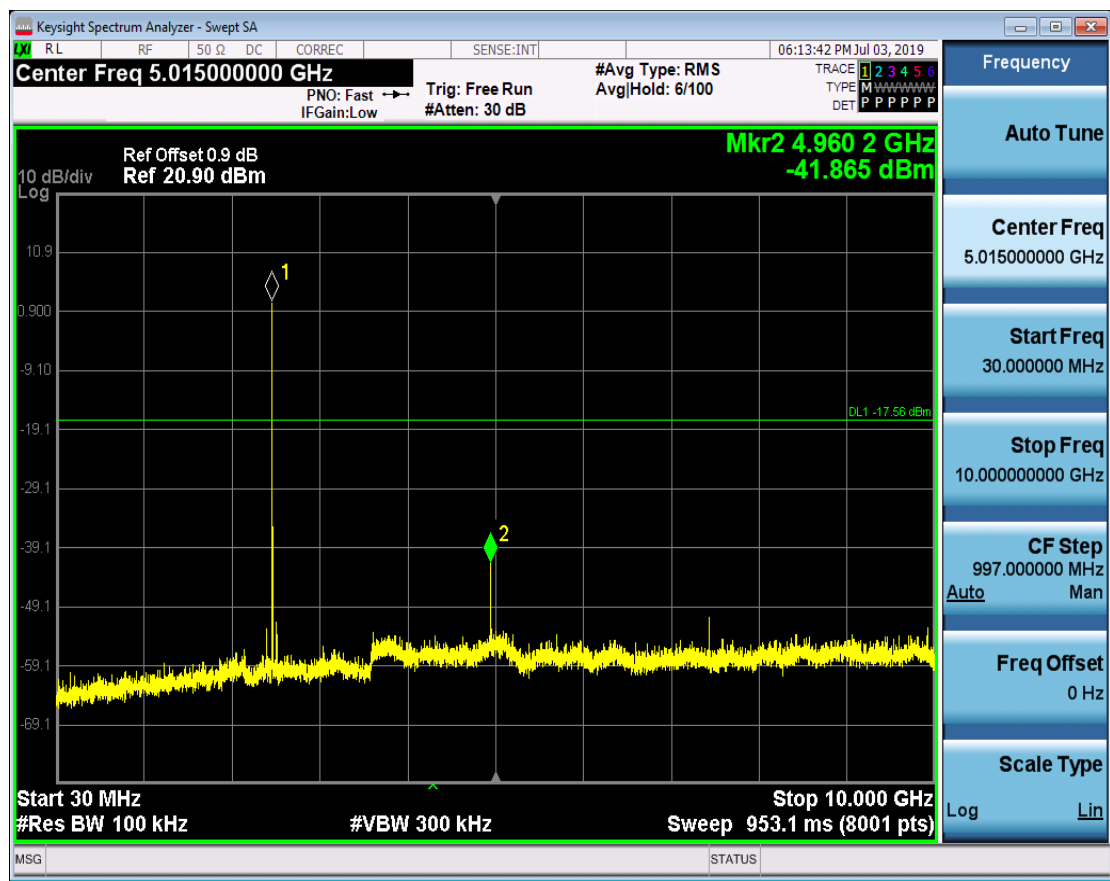


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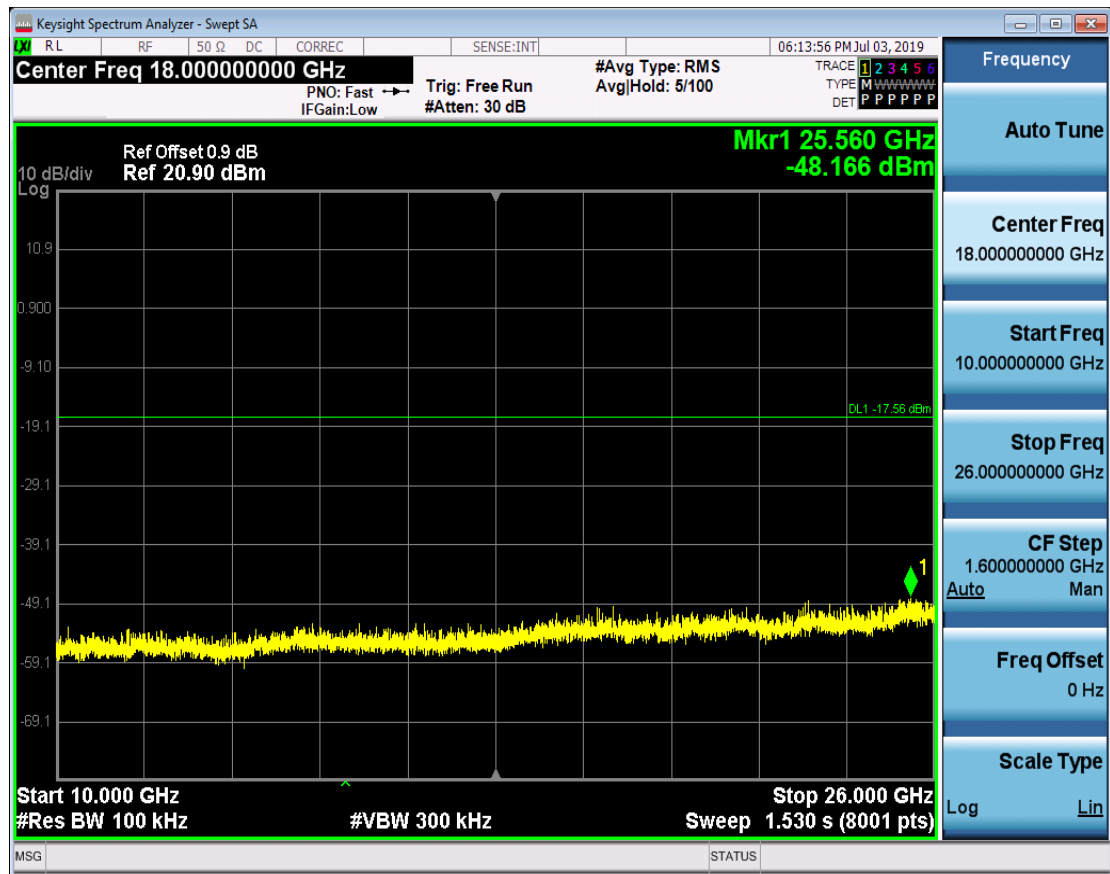
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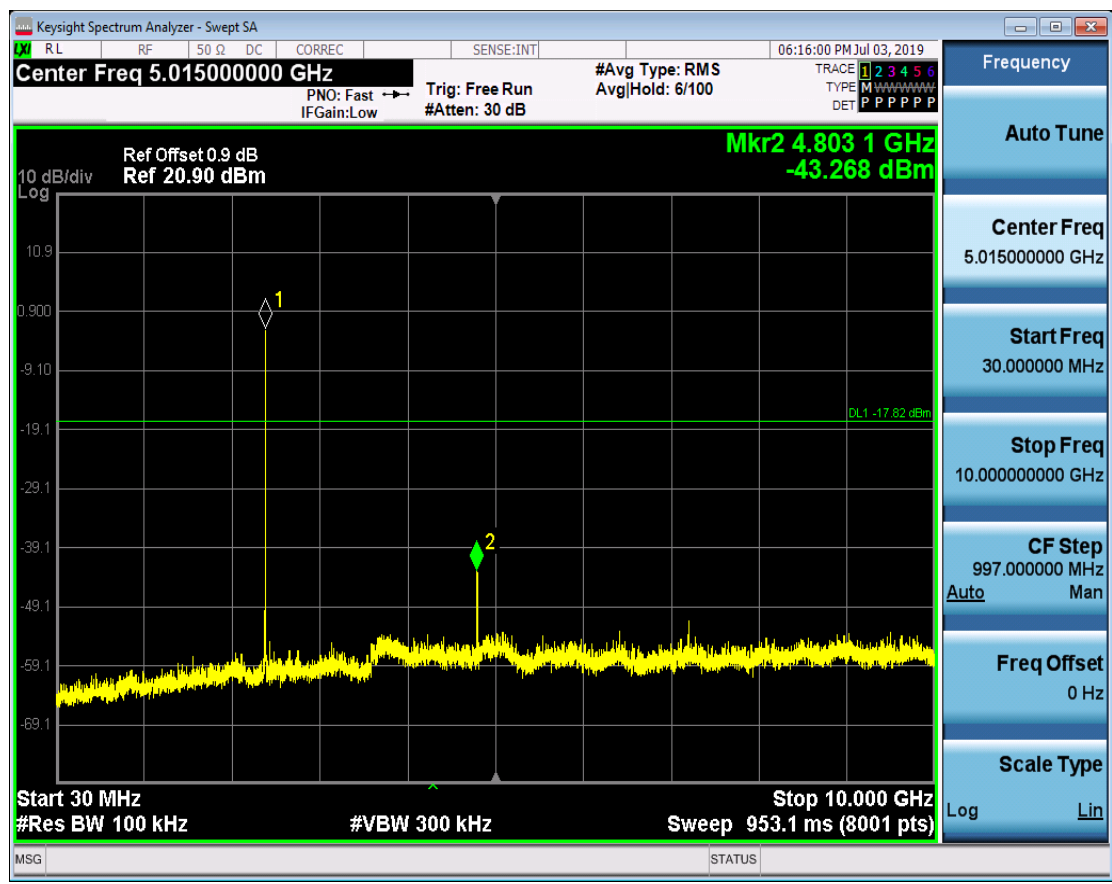
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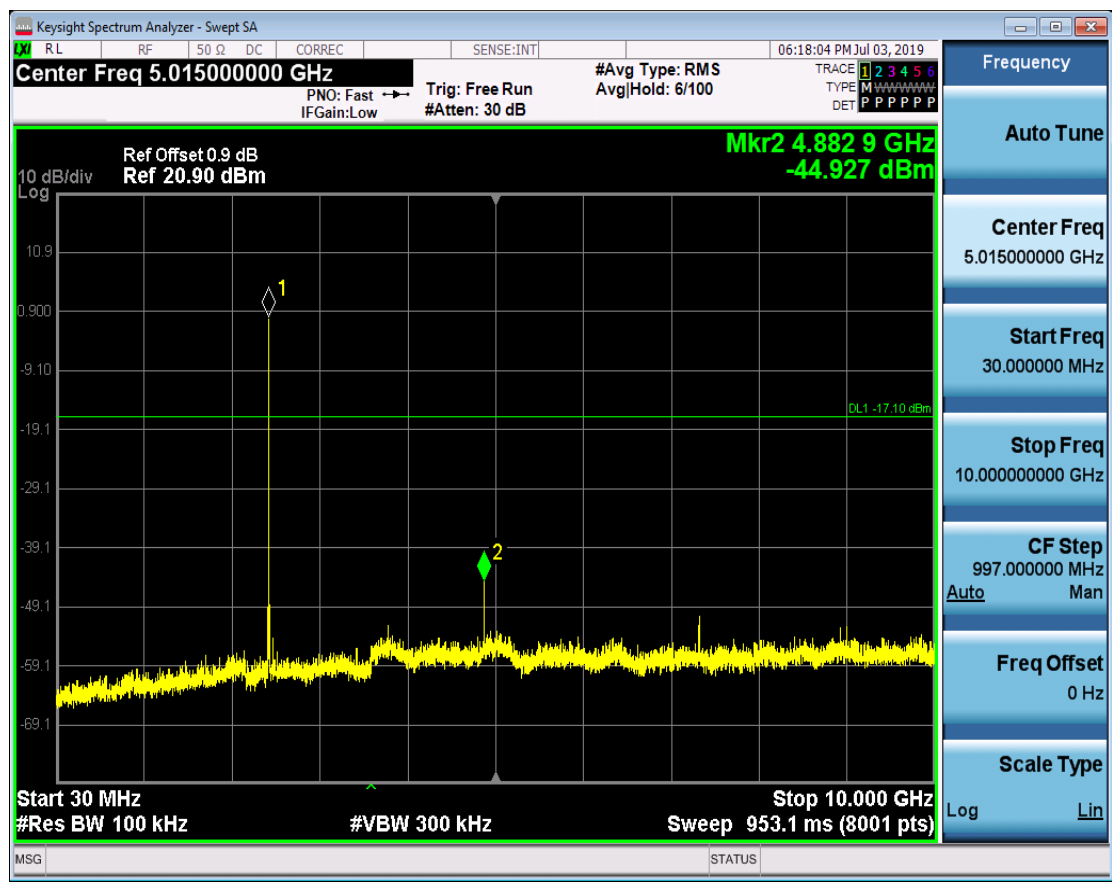


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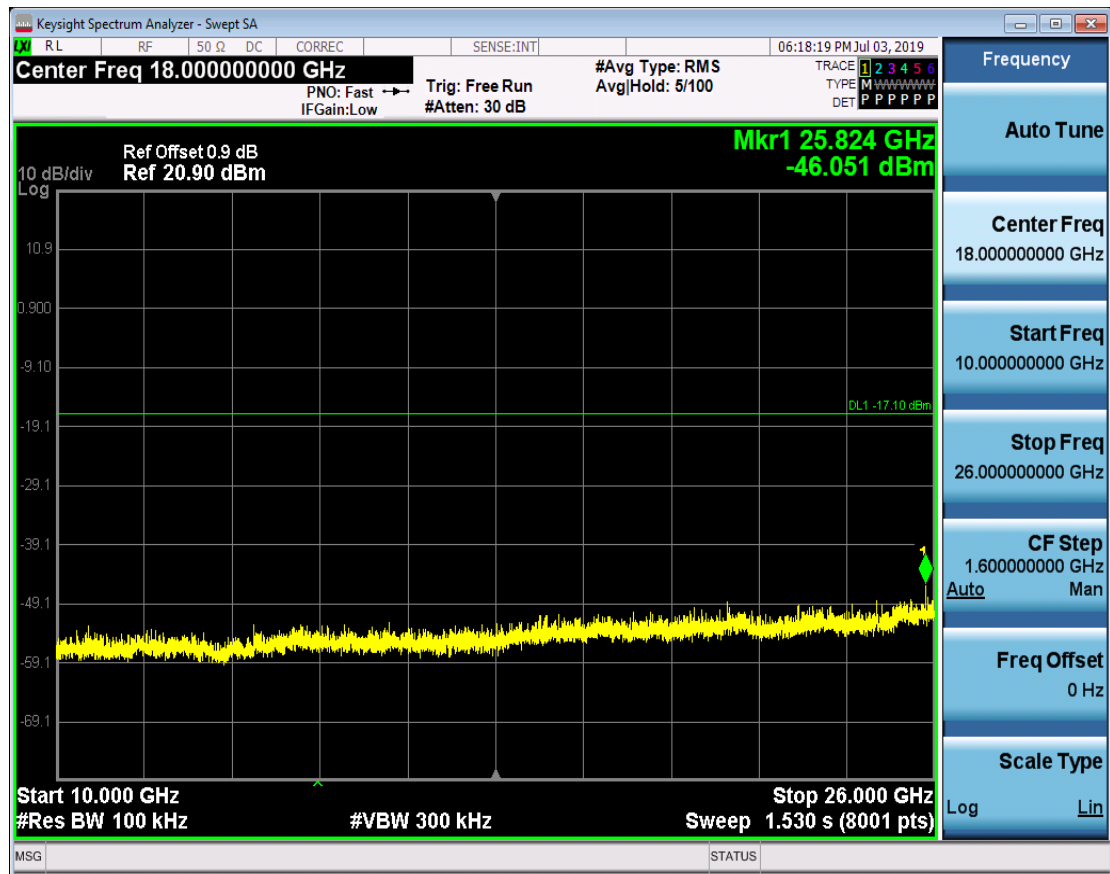
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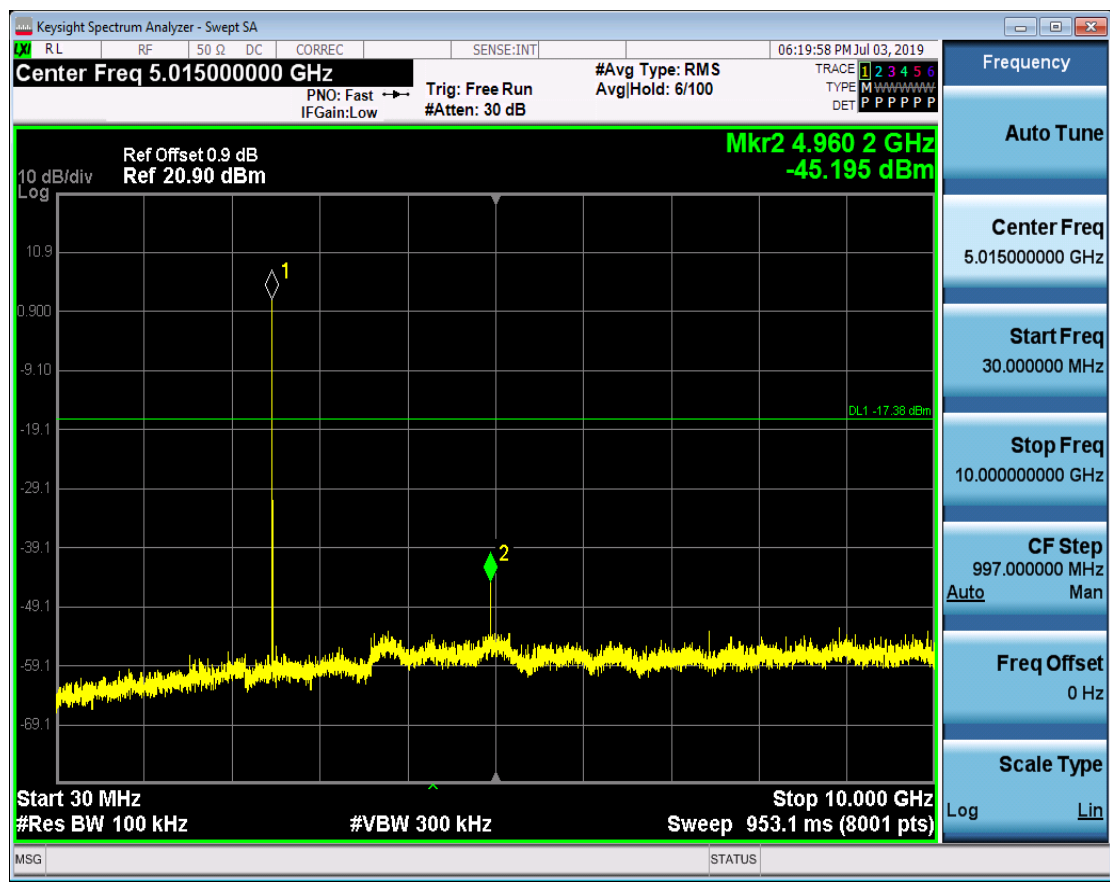
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