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Report No.: GZEM190201065302
Page: 1 of 89

TEST REPORT

Application No.:	GZEM1902010653CR
Applicant:	Xiamen Renhe Sports Equipment Co., Ltd
Address of Applicant:	4/F., 1129, Jicheng Road, Industrial Concentration Zone, Tong'an Xiamen,
Manufacturer:	The same as applicant
Address of Manufacturer:	The same as applicant
Factory:	The same as applicant
Address of Factory:	The same as applicant
Equipment Under Test (EUT):	
EUT Name:	Samrt Walking machine
Model No.:	Home walking
Trade Mark:	
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2019-02-03
Date of Test:	2019-02-28 to 2019-03-28
Date of Issue:	2019-04-02
Test Result:	Pass*

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



Kobe Jian

Lab 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.

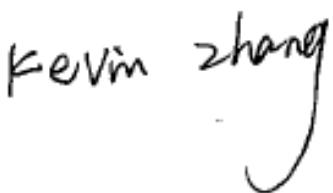
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-04-02		Original

Authorized for issue by:			
Tested By	 Kevin_Zhang /Project Engineer		2019-02-28 to 2019-03-28
Checked By	 Ricky_Liu /Reviewer		Date
			2019-04-02
			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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4 General Information

4.1 Details of E.U.T.

Power Supply:	AV 110V 60Hz for Walking Machine.
	DC 3.0V by 2x"AAA" battery for Remote Controller.
Test Voltage:	AC 110 60Hz
Cable:	AC mains cable (unshielded, 2m)
Antenna Gain	1.2 dBi
Antenna Type	Integrated Antenna
Channel Spacing	1MHz
Modulation Type	GFSK, π/4DQPSK, 8DPSK
Number of Channels	79
Operation Frequency	2402MHz to 2480MHz
Spectrum Spread Technology	Frequency Hopping Spread Spectrum(FHSS)

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

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



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4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.



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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

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

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

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Hopping Channel Number					
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

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

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	2018-04-10	2019-04-10
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

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

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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
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
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	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
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	2017-06-18	2019-06-18
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	2016-06-29	2019-06-28
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	2017-06-30	2019-06-30
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	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
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	2017-06-18	2019-06-18
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	2016-06-29	2019-06-28
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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6.2 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(dB μ V)	
	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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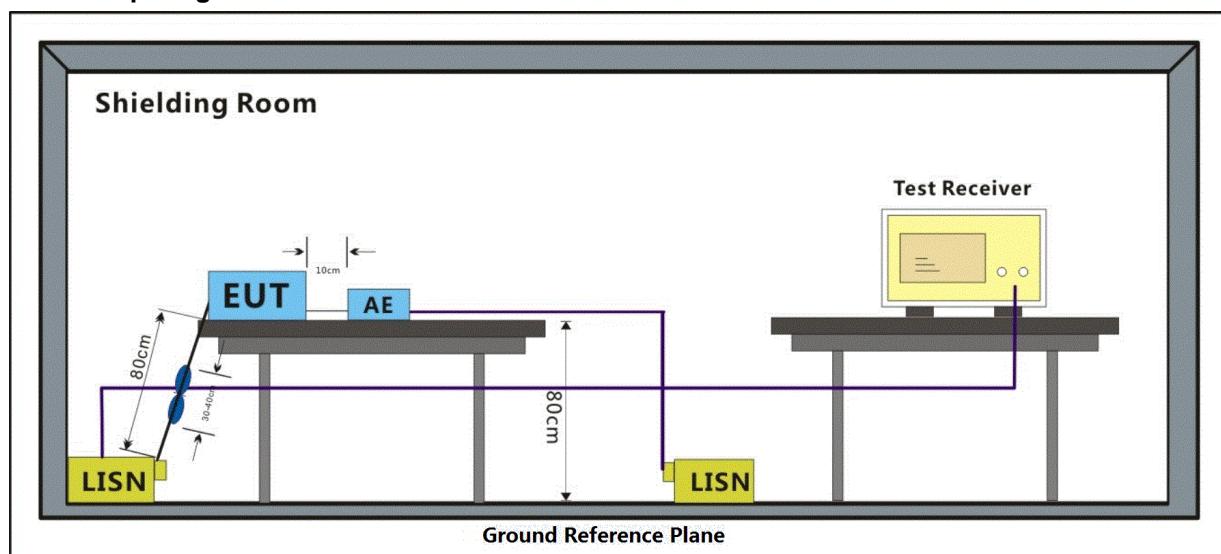
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7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 67.3 % RH Atmospheric Pressure: 1020 mbar
Test mode d:Wireless Operating(BT)_Keep the EUT connection with smartphone and playing music.

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/50μH + 50hm 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.

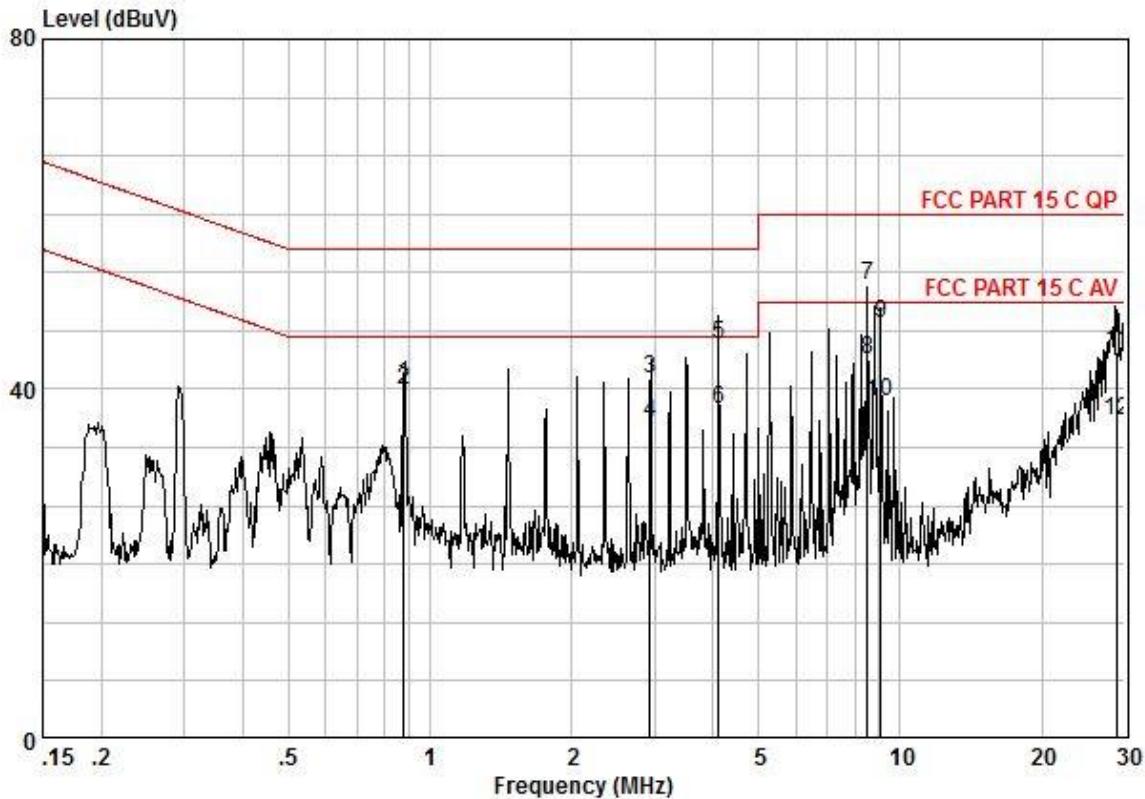
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:d; Line:Live Line



Pol :LIVE
No :BT
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.88	30.69	0.10	9.67	40.46	56.00	-15.54	QP
0.88	30.12	0.10	9.67	39.89	46.00	-6.11	AVERAGE
2.93	31.27	0.19	9.69	41.15	56.00	-14.85	QP
2.93	26.21	0.19	9.69	36.09	46.00	-9.91	AVERAGE
4.11	35.13	0.20	9.70	45.03	56.00	-10.97	QP
4.11	27.82	0.20	9.70	37.72	46.00	-8.28	AVERAGE
8.52	41.75	0.30	9.75	51.80	60.00	-8.20	QP
8.52	33.28	0.30	9.75	43.33	50.00	-6.67	AVERAGE
9.11	37.43	0.30	9.75	47.48	60.00	-12.52	QP
9.11	28.55	0.30	9.75	38.60	50.00	-11.40	AVERAGE
28.92	34.11	0.40	9.75	44.26	60.00	-15.74	QP
28.92	26.23	0.40	9.75	36.38	50.00	-13.62	AVERAGE

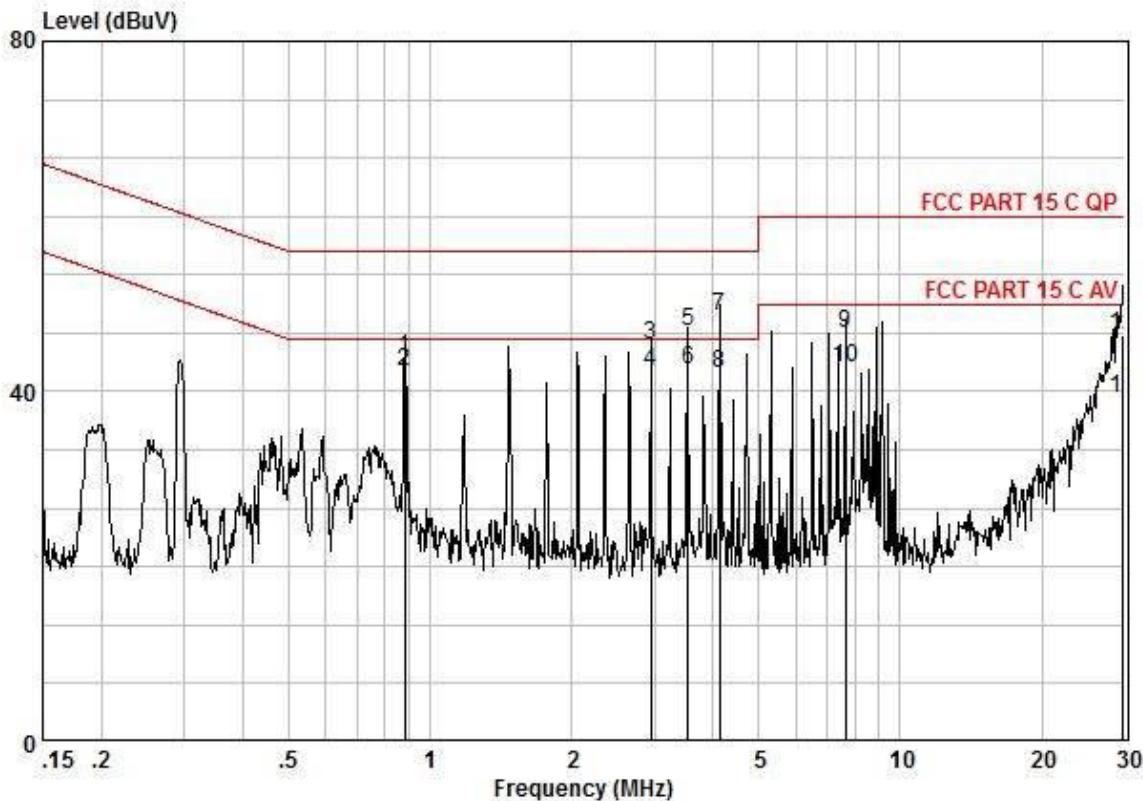
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Mode:d; Line:Neutral Line



Pol : NEUTRAL
No : BT
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.88	34.08	0.10	9.61	43.79	56.00	-12.21	QP
0.88	32.55	0.10	9.61	42.26	46.00	-3.74	AVERAGE
2.95	35.60	0.20	9.62	45.42	56.00	-10.58	QP
2.95	32.37	0.20	9.62	42.19	46.00	-3.81	AVERAGE
3.53	37.05	0.20	9.63	46.88	56.00	-9.12	QP
3.53	32.77	0.20	9.63	42.60	46.00	-3.40	AVERAGE
4.13	38.79	0.20	9.63	48.62	56.00	-7.38	QP
4.13	32.31	0.20	9.63	42.14	46.00	-3.86	AVERAGE
7.66	36.60	0.30	9.70	46.60	60.00	-13.40	QP
7.66	32.82	0.30	9.70	42.82	50.00	-7.18	AVERAGE
29.68	28.73	0.48	10.11	39.31	50.00	-10.69	AVERAGE
29.68	35.91	0.48	10.11	46.49	60.00	-13.51	QP

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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 ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 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

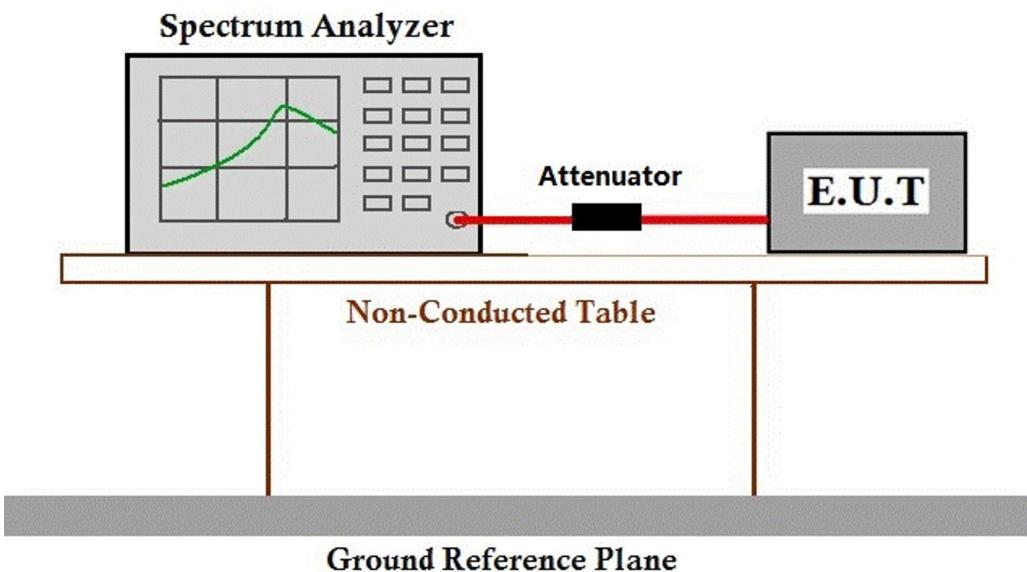
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4$ DQPSK modulation, 8DPSK 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

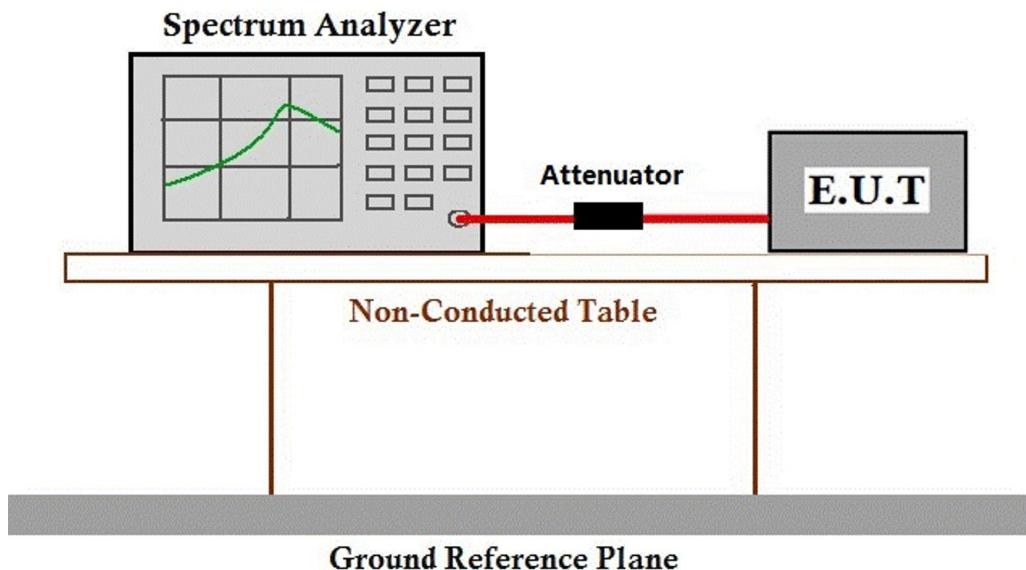
Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4$ DQPSK modulation, 8DPSK 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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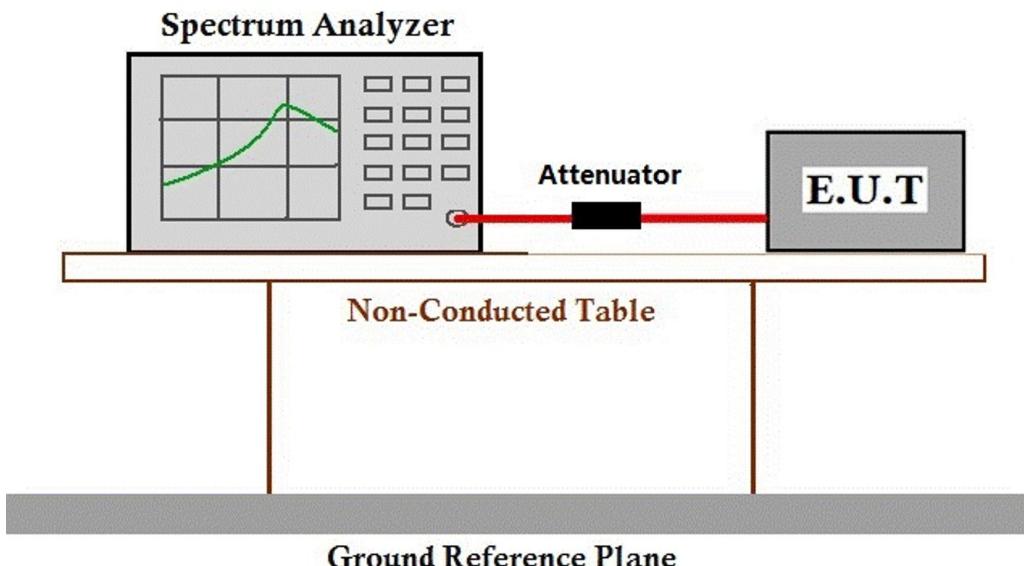
7.4 Carrier Frequencies Separation

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:	23.1 °C
Test mode	Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar b:TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK 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 \geq 250kHz
2400-2483.5	15
5725-5850	75

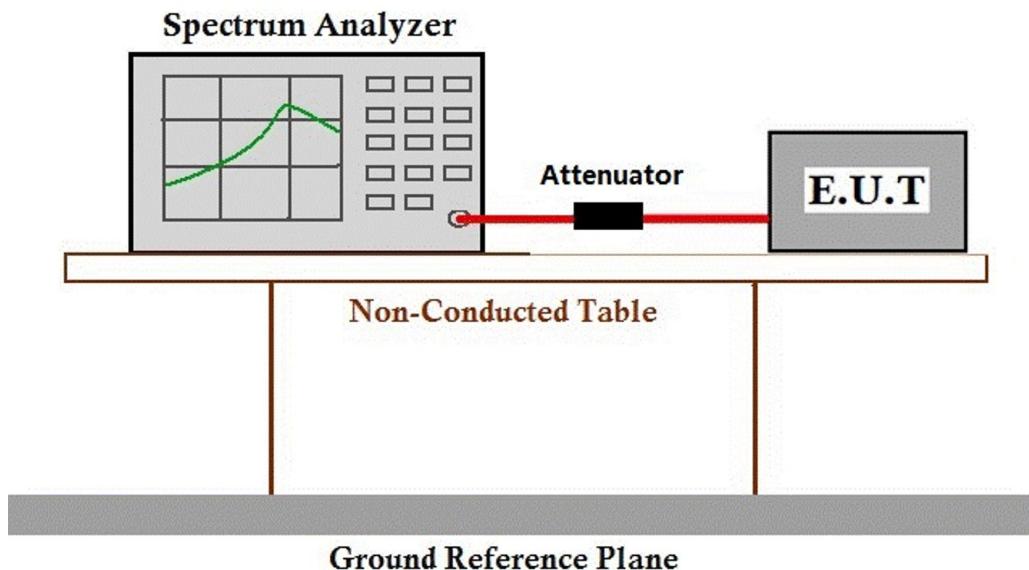
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, $\pi/4$ DQPSK modulation, 8DPSK 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

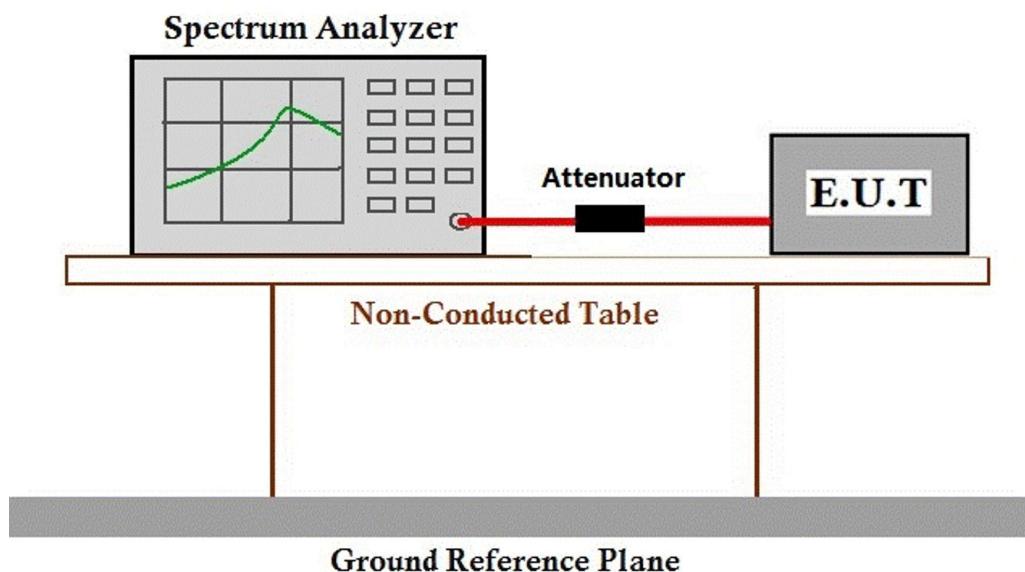
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK 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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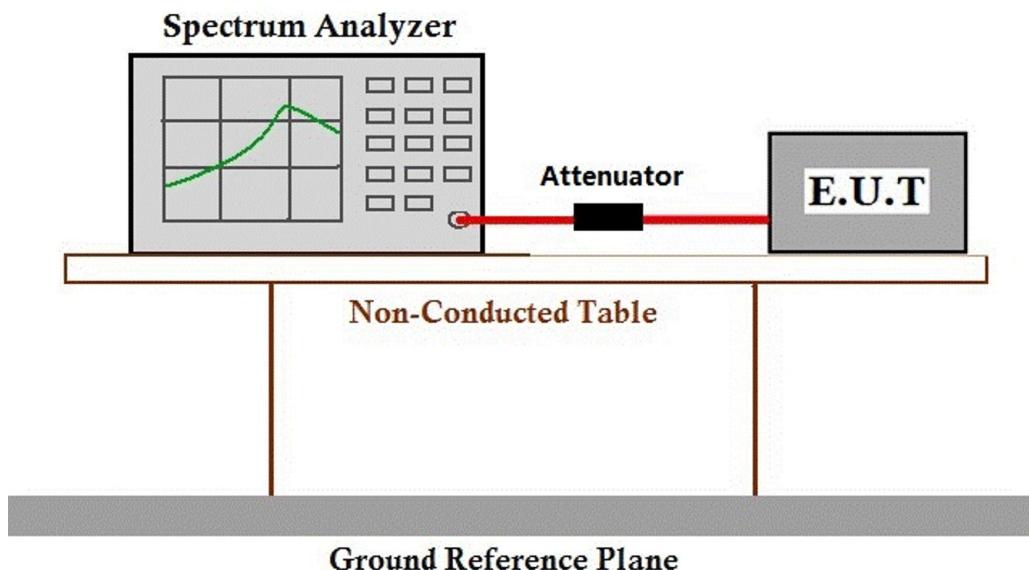
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:
b:TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, π/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

c:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK 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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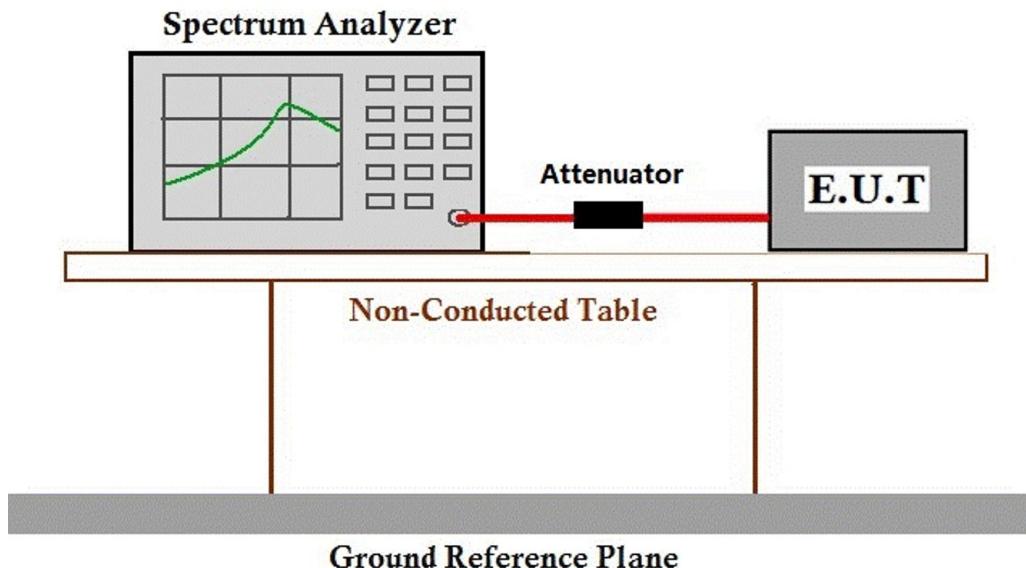
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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 59.9 % RH Atmospheric Pressure: 1020 mbar
Test mode c:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, π/4DQPSK modulation, 8DPSK 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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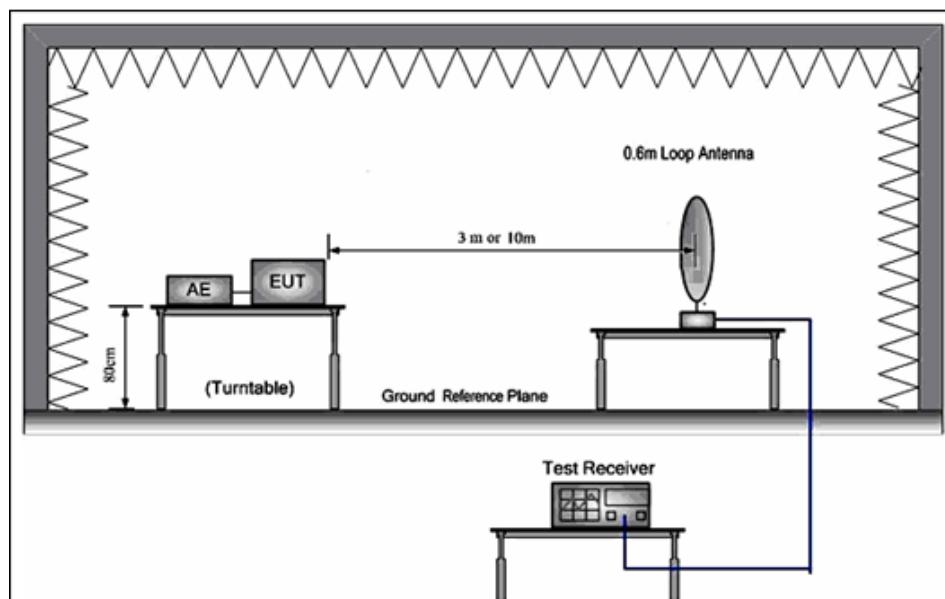
7.9.1 E.U.T. Operation

Operating Environment:

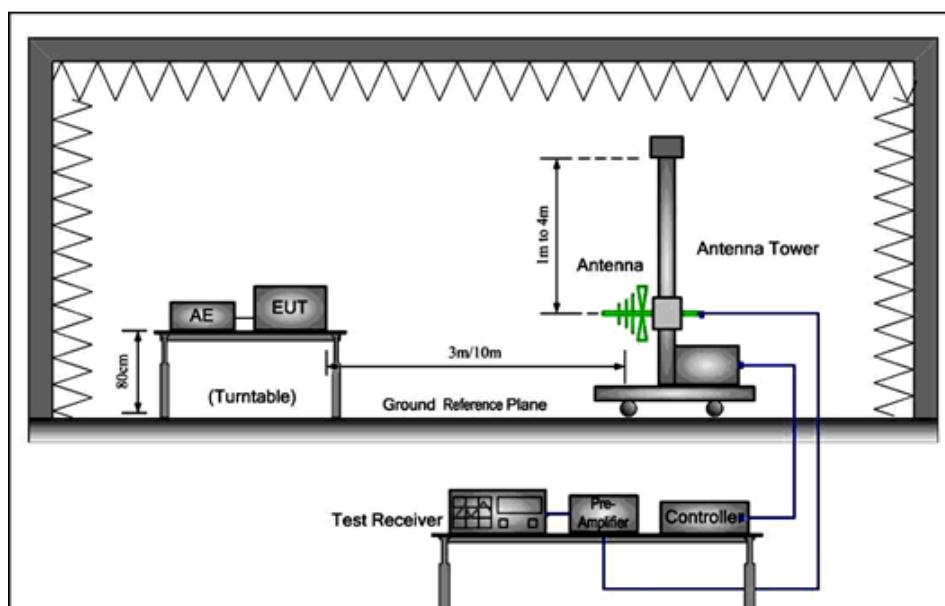
Temperature: 22.2 °C Humidity: 69.4 % RH Atmospheric Pressure: 1020 mbar
 Test mode c:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.9.2 Test Setup Diagram

9KHz-30MHz



30MHz-1GHz



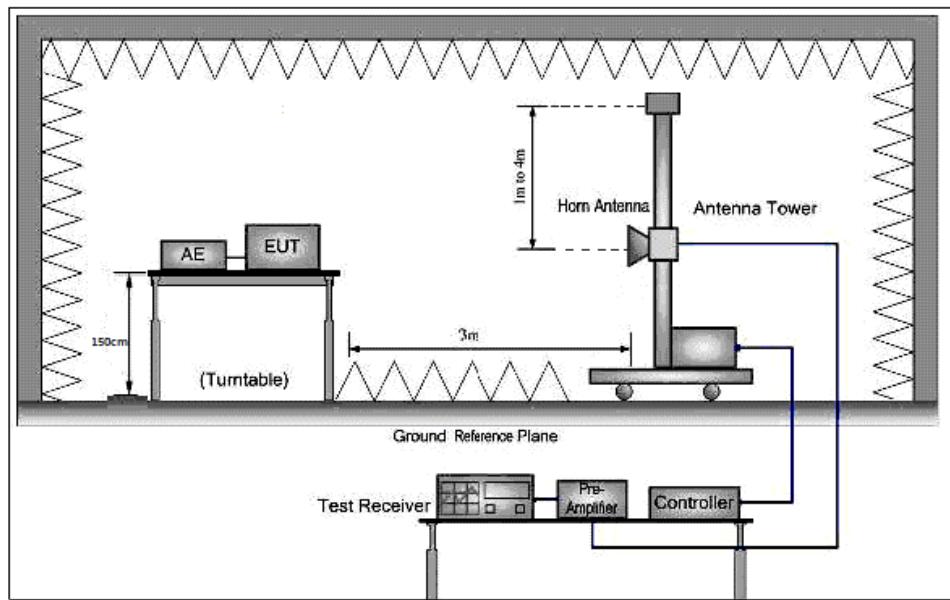
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Above 1GHz



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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:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

Freq	ReadAntenna		Cable Preamp		Limit Level	Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	2310.000	34.40	26.25	5.03	37.44	28.24	54.00	-25.76	HORIZONTAL Average
2	2310.000	46.13	26.25	5.03	37.44	39.97	74.00	-34.03	HORIZONTAL Peak
3	2390.000	41.39	26.43	4.88	37.42	35.28	54.00	-18.72	HORIZONTAL Average
4	2390.000	53.55	26.43	4.88	37.42	47.44	74.00	-26.56	HORIZONTAL Peak
5	2483.500	34.26	26.58	5.23	37.40	28.67	54.00	-25.33	HORIZONTAL Average
6	2483.500	45.26	26.58	5.23	37.40	39.67	74.00	-34.33	HORIZONTAL Peak
7	2500.000	33.13	26.60	4.95	37.39	27.29	54.00	-26.71	HORIZONTAL Average
8	2500.000	45.74	26.60	4.95	37.39	39.90	74.00	-34.10	HORIZONTAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	2310.000	33.93	26.25	5.03	37.44	27.77	54.00	-26.23	VERTICAL Average
2	2310.000	45.17	26.25	5.03	37.44	39.01	74.00	-34.99	VERTICAL Peak
3	2390.000	34.55	26.43	4.88	37.42	28.44	54.00	-25.56	VERTICAL Average
4	2390.000	45.29	26.43	4.88	37.42	39.18	74.00	-34.82	VERTICAL Peak
5	2483.500	33.96	26.58	5.23	37.40	28.37	54.00	-25.63	VERTICAL Average
6	2483.500	45.66	26.58	5.23	37.40	40.07	74.00	-33.93	VERTICAL Peak
7	2500.000	33.32	26.60	4.95	37.39	27.48	54.00	-26.52	VERTICAL Average
8	2500.000	45.31	26.60	4.95	37.39	39.47	74.00	-34.53	VERTICAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Line Limit	Over Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor				
				dB	dB	dBuV/m	dBuV/m	dB
1	2310.000	33.31	26.25	5.03	37.44	27.15	54.00	-26.85 HORIZONTAL Average
2	2310.000	44.90	26.25	5.03	37.44	38.74	74.00	-35.26 HORIZONTAL Peak
3	2390.000	45.37	26.43	4.88	37.42	39.26	54.00	-14.74 HORIZONTAL Average
4	2390.000	33.50	26.43	4.88	37.42	27.39	54.00	-26.61 HORIZONTAL Average
5	2483.500	45.76	26.58	5.23	37.40	40.17	54.00	-13.83 HORIZONTAL Average
6	2483.500	59.22	26.58	5.23	37.40	53.63	74.00	-20.37 HORIZONTAL Peak
7	2500.000	33.37	26.60	4.95	37.39	27.53	54.00	-26.47 HORIZONTAL Average
8	2500.000	44.65	26.60	4.95	37.39	38.81	74.00	-35.19 HORIZONTAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Line Limit	Over Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor				
				dB	dB	dBuV/m	dBuV/m	dB
1	2310.000	33.89	26.25	5.03	37.44	27.73	54.00	-26.27 VERTICAL Average
2	2310.000	44.46	26.25	5.03	37.44	38.30	74.00	-35.70 VERTICAL Peak
3	2390.000	35.66	26.43	4.88	37.42	29.55	54.00	-24.45 VERTICAL Average
4	2390.000	44.46	26.43	4.88	37.42	38.35	74.00	-35.65 VERTICAL Peak
5	2483.500	39.69	26.58	5.23	37.40	34.10	54.00	-19.90 VERTICAL Average
6	2483.500	50.61	26.58	5.23	37.40	45.02	74.00	-28.98 VERTICAL Peak
7	2500.000	32.35	26.60	4.95	37.39	26.51	54.00	-27.49 VERTICAL Average
8	2500.000	45.26	26.60	4.95	37.39	39.42	74.00	-34.58 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

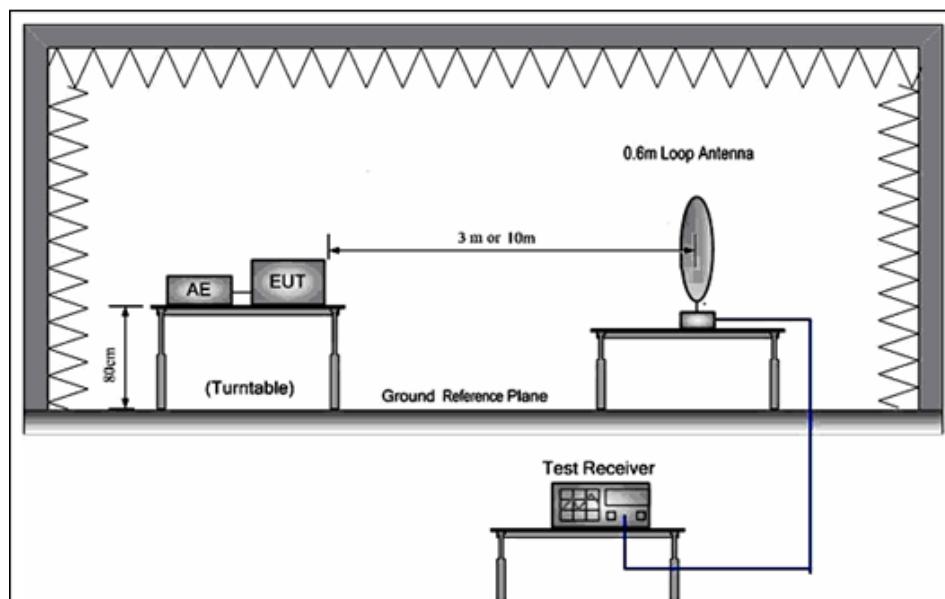
Operating Environment:

Temperature: 22 °C Humidity: 65.1 % RH Atmospheric Pressure: 1020 mbar

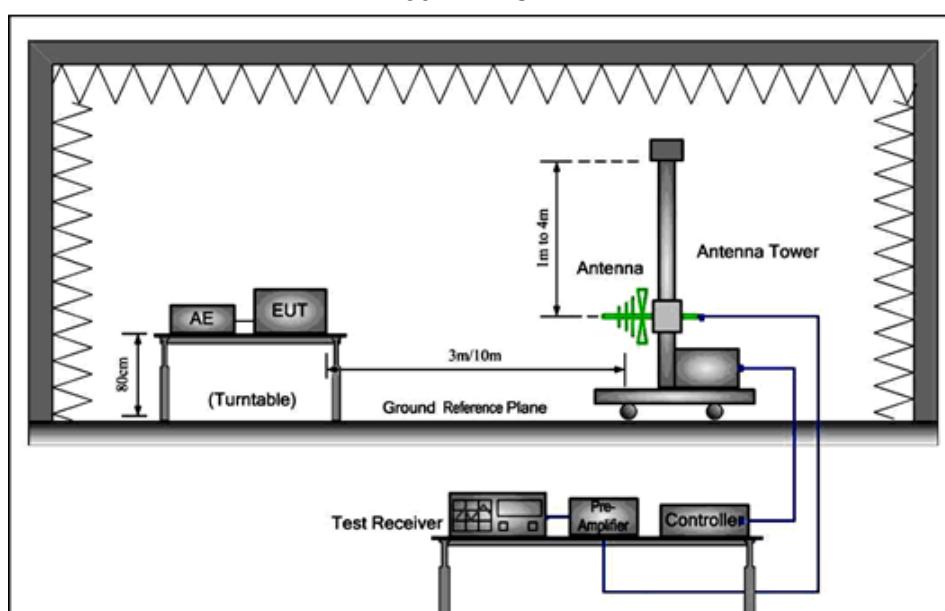
Test mode c:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.10.2 Test Setup Diagram

9KHz-30MHz



30MHz-1GHz

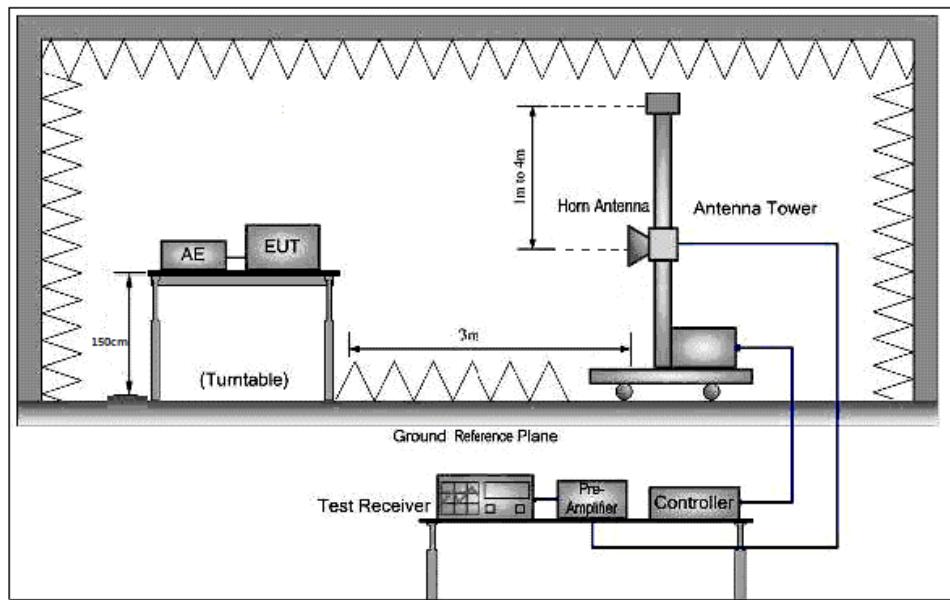


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Above 1GHz



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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:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line Limit	Over Pol/Phase	Remark
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	44.120	28.79	14.01	0.68	26.51	16.97	40.00	-23.03 HORIZONTAL QP
2	80.362	39.69	9.56	1.00	26.42	23.83	40.00	-16.17 HORIZONTAL QP
3	125.886	33.20	11.49	1.22	26.41	19.50	43.50	-24.00 HORIZONTAL QP
4	162.041	46.30	13.62	1.34	26.44	34.82	43.50	-8.68 HORIZONTAL QP
5	259.234	38.75	12.69	1.68	26.60	26.52	46.00	-19.48 HORIZONTAL QP
6	350.477	35.38	15.29	1.94	27.22	25.39	46.00	-20.61 HORIZONTAL QP

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line Limit	Over Pol/Phase	Remark
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	4230.396	35.76	29.77	6.56	36.91	35.18	54.00	-18.82 HORIZONTAL Average
2	4230.396	46.11	29.77	6.56	36.91	45.53	74.00	-28.47 HORIZONTAL Peak
3	4804.016	47.00	30.79	5.87	36.94	46.72	54.00	-7.28 HORIZONTAL Average
4	4804.016	53.51	30.79	5.87	36.94	53.23	74.00	-20.77 HORIZONTAL Peak
5	7206.309	31.83	35.45	7.34	36.93	37.69	54.00	-16.31 HORIZONTAL Average
6	7206.309	44.83	35.45	7.34	36.93	50.69	74.00	-23.31 HORIZONTAL Peak
7	8224.200	30.70	36.33	8.23	36.92	38.34	54.00	-15.66 HORIZONTAL Average
8	8224.200	43.67	36.33	8.23	36.92	51.31	74.00	-22.69 HORIZONTAL Peak
9	9608.588	31.83	37.51	8.15	37.08	40.41	54.00	-13.59 HORIZONTAL Average
10	9608.588	44.88	37.51	8.15	37.08	53.46	74.00	-20.54 HORIZONTAL Peak
11	12010.600	28.29	39.50	10.67	37.20	41.26	54.00	-12.74 HORIZONTAL Average
12	12010.600	40.05	39.50	10.67	37.20	53.02	74.00	-20.98 HORIZONTAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line Limit	Over Pol/Phase	Remark
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	44.120	41.92	14.01	0.68	26.51	30.10	40.00	-9.90 VERTICAL QP
2	80.362	48.13	9.56	1.00	26.42	32.27	40.00	-7.73 VERTICAL QP
3	114.917	43.12	10.72	1.18	26.40	28.62	43.50	-14.88 VERTICAL QP
4	163.182	50.60	13.57	1.35	26.44	39.08	43.50	-4.42 VERTICAL QP
5	294.114	44.14	13.82	1.79	26.75	33.00	46.00	-13.00 VERTICAL QP
6	343.180	39.95	14.91	1.92	27.19	29.59	46.00	-16.41 VERTICAL QP

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line Limit	Over Pol/Phase	Remark
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	4267.237	31.74	29.85	6.46	36.91	31.14	54.00	-22.86 VERTICAL Average
2	4267.237	45.74	29.85	6.46	36.91	45.14	74.00	-28.86 VERTICAL Peak
3	4804.396	36.93	30.79	5.87	36.94	36.65	54.00	-17.35 VERTICAL Average
4	4804.396	48.30	30.79	5.87	36.94	48.02	74.00	-25.98 VERTICAL Peak
5	7206.404	32.21	35.45	7.34	36.93	38.07	54.00	-15.93 VERTICAL Average
6	7206.404	45.53	35.45	7.34	36.93	51.39	74.00	-22.61 VERTICAL Peak
7	8663.404	32.35	36.22	7.95	36.96	39.56	54.00	-14.44 VERTICAL Average
8	8663.404	44.18	36.22	7.95	36.96	51.39	74.00	-22.61 VERTICAL Peak
9	9608.151	29.68	37.51	8.15	37.08	38.26	54.00	-15.74 VERTICAL Average
10	9608.151	45.30	37.51	8.15	37.08	53.88	74.00	-20.12 VERTICAL Peak
11	12010.280	27.87	39.50	10.67	37.20	40.84	54.00	-13.16 VERTICAL Average
12	12010.280	40.87	39.50	10.67	37.20	53.84	74.00	-20.16 VERTICAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Line Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	3790.361	33.04	28.97	7.83	36.92	32.92	54.00	-21.08	HORIZONTAL Average
2	3790.361	44.59	28.97	7.83	36.92	44.47	74.00	-29.53	HORIZONTAL Peak
3	4882.151	45.58	30.95	6.86	36.95	46.44	54.00	-7.56	HORIZONTAL Average
4	4882.151	51.19	30.95	6.86	36.95	52.05	74.00	-21.95	HORIZONTAL Peak
5	7323.122	38.97	35.74	7.39	36.92	45.18	54.00	-8.82	HORIZONTAL Average
6	7323.122	46.17	35.74	7.39	36.92	52.38	74.00	-21.62	HORIZONTAL Peak
7	8688.480	36.49	36.25	7.94	36.96	43.72	54.00	-10.28	HORIZONTAL Average
8	8688.480	45.34	36.25	7.94	36.96	52.57	74.00	-21.43	HORIZONTAL Peak
9	9764.151	31.70	37.70	8.33	37.09	40.64	54.00	-13.36	HORIZONTAL Average
10	9764.151	44.73	37.70	8.33	37.09	53.67	74.00	-20.33	HORIZONTAL Peak
11	12205.760	28.87	39.21	10.98	37.06	42.00	54.00	-12.00	HORIZONTAL Average
12	12205.760	40.42	39.21	10.98	37.06	53.55	74.00	-20.45	HORIZONTAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Line Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor					
1	3790.361	33.04	28.97	7.83	36.92	32.92	54.00	-21.08	VERTICAL Average
2	3790.361	44.59	28.97	7.83	36.92	44.47	74.00	-29.53	VERTICAL Peak
3	4882.760	34.86	30.95	6.86	36.95	35.72	54.00	-18.28	VERTICAL Average
4	4882.760	44.56	30.95	6.86	36.95	45.42	74.00	-28.58	VERTICAL Peak
5	7323.122	41.97	35.74	7.39	36.92	48.18	54.00	-5.82	VERTICAL Average
6	7323.122	46.17	35.74	7.39	36.92	52.38	74.00	-21.62	VERTICAL Peak
7	8638.399	31.68	36.20	7.96	36.95	38.89	54.00	-15.11	VERTICAL Average
8	8638.399	44.86	36.20	7.96	36.95	52.07	74.00	-21.93	VERTICAL Peak
9	9764.525	32.49	37.70	8.33	37.09	41.43	54.00	-12.57	VERTICAL Average
10	9764.525	43.61	37.70	8.33	37.09	52.55	74.00	-21.45	VERTICAL Peak
11	12205.220	28.87	39.21	10.98	37.06	42.00	54.00	-12.00	VERTICAL Average
12	12205.220	40.90	39.21	10.98	37.06	54.03	74.00	-19.97	VERTICAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Line Limit	Over Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor				
				dB	dB	dBuV/m	dBuV/m	dB
1	4027.554	33.04	29.52	7.17	36.90	32.83	54.00	-21.17 HORIZONTAL Average
2	4027.554	45.44	29.52	7.17	36.90	45.23	74.00	-28.77 HORIZONTAL Peak
3	4960.993	51.75	31.05	7.84	36.96	53.68	54.00	-0.32 HORIZONTAL Average
4	4960.993	53.53	31.05	7.84	36.96	55.46	74.00	-18.54 HORIZONTAL Peak
5	7440.914	33.03	35.92	7.43	36.92	39.46	54.00	-14.54 HORIZONTAL Average
6	7440.914	45.31	35.92	7.43	36.92	51.74	74.00	-22.26 HORIZONTAL Peak
7	8224.200	33.24	36.33	8.23	36.92	40.88	54.00	-13.12 HORIZONTAL Average
8	8224.200	44.35	36.33	8.23	36.92	51.99	74.00	-22.01 HORIZONTAL Peak
9	9920.710	33.19	37.92	8.63	37.10	42.64	54.00	-11.36 HORIZONTAL Average
10	9920.710	43.90	37.92	8.63	37.10	53.35	74.00	-20.65 HORIZONTAL Peak
11	12400.270	27.96	38.93	11.17	36.90	41.16	54.00	-12.84 HORIZONTAL Average
12	12400.270	40.99	38.93	11.17	36.90	54.19	74.00	-19.81 HORIZONTAL Peak

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

Freq	ReadAntenna		Cable Preamp		Limit Level	Line Limit	Over Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor				
				dB	dB	dBuV/m	dBuV/m	dB
1	3890.255	33.50	29.27	7.61	36.91	33.47	54.00	-20.53 VERTICAL Average
2	3890.255	44.51	29.27	7.61	36.91	44.48	74.00	-29.52 VERTICAL Peak
3	4960.993	49.69	31.05	7.84	36.96	51.62	54.00	-2.38 VERTICAL Average
4	4960.993	51.36	31.05	7.84	36.96	53.29	74.00	-20.71 VERTICAL Peak
5	7440.914	40.54	35.92	7.43	36.92	46.97	54.00	-7.03 VERTICAL Average
6	7440.914	46.22	35.92	7.43	36.92	52.65	74.00	-21.35 VERTICAL Peak
7	8738.852	32.86	36.30	7.98	36.96	40.18	54.00	-13.82 VERTICAL Average
8	8738.852	44.72	36.30	7.98	36.96	52.04	74.00	-21.96 VERTICAL Peak
9	9920.151	32.54	37.92	8.63	37.10	41.99	54.00	-12.01 VERTICAL Average
10	9920.151	44.01	37.92	8.63	37.10	53.46	74.00	-20.54 VERTICAL Peak
11	12400.350	30.54	38.93	11.17	36.90	43.74	54.00	-10.26 VERTICAL Average
12	12400.350	42.46	38.93	11.17	36.90	55.66	74.00	-18.34 VERTICAL Peak

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8 Appendix

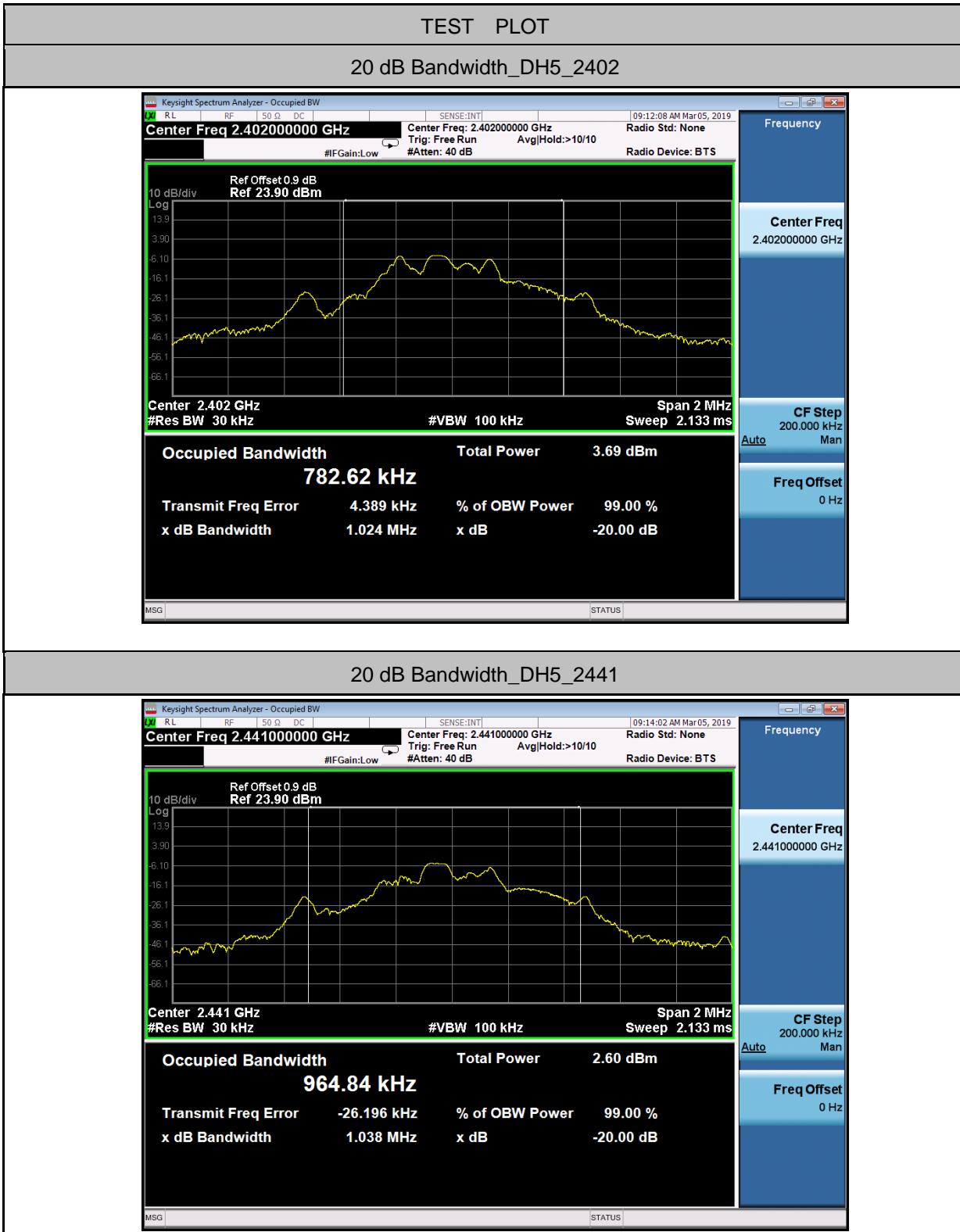
8.1 Appendix 15.247

1.20 dB Bandwidth

Test Mode	Test Channel	OBW[MHz]	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.78262	1.024	---	PASS
DH5	2441	0.96484	1.038	---	PASS
DH5	2480	0.96597	1.038	---	PASS
2DH5	2402	1.0615	1.124	---	PASS
2DH5	2441	1.0552	1.112	---	PASS
2DH5	2480	1.0614	1.128	---	PASS
3DH5	2402	1.1132	1.174	---	PASS
3DH5	2441	1.1100	1.169	---	PASS
3DH5	2480	1.1153	1.177	---	PASS

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20 dB Bandwidth_DH5_2480



20 dB Bandwidth_2DH5_2402



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20 dB Bandwidth_2DH5_2441



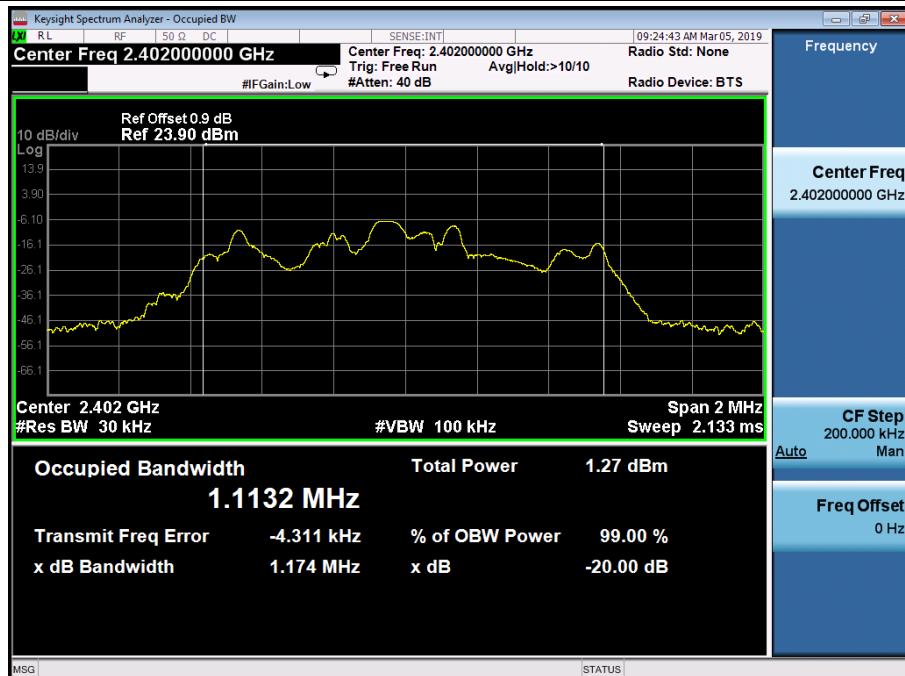
20 dB Bandwidth_2DH5_2480



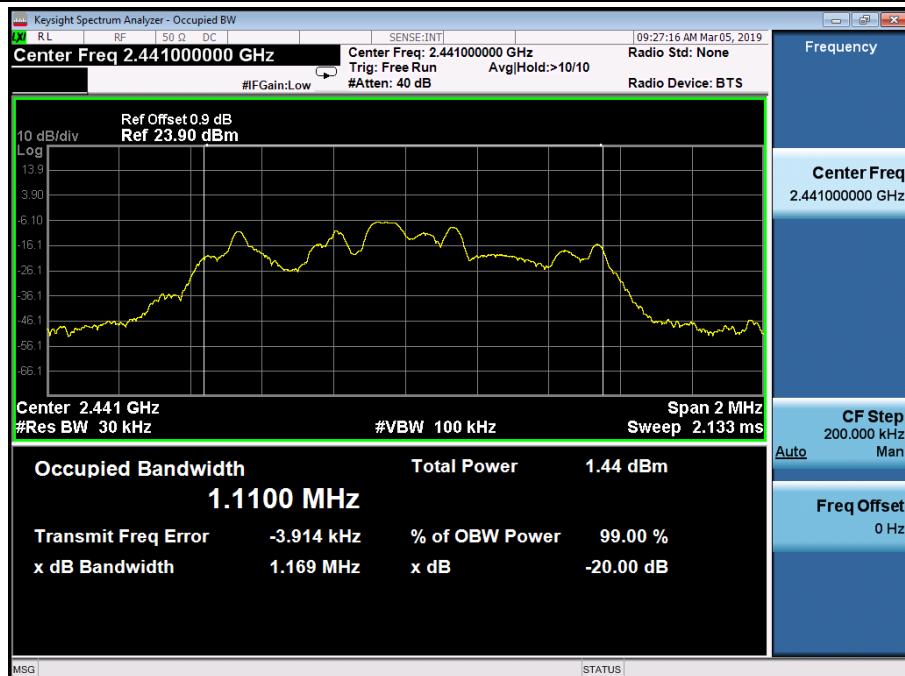
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20 dB Bandwidth_3DH5_2402



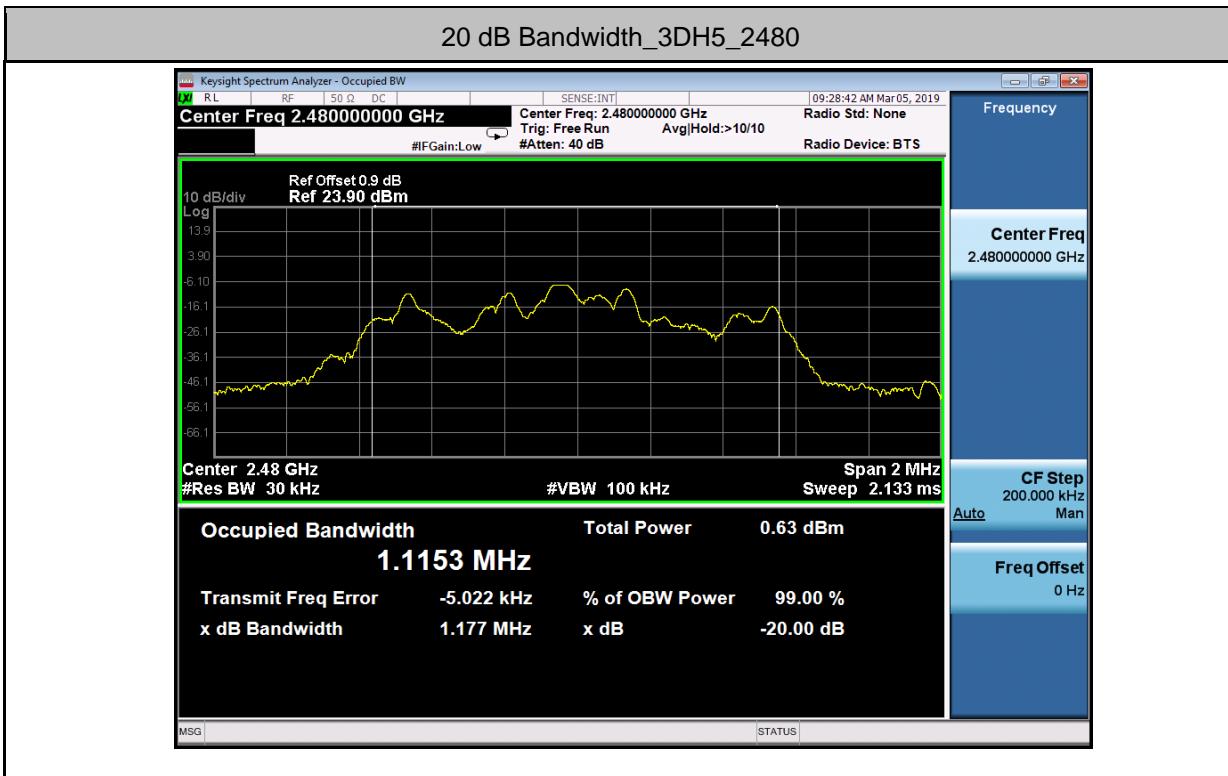
20 dB Bandwidth_3DH5_2441



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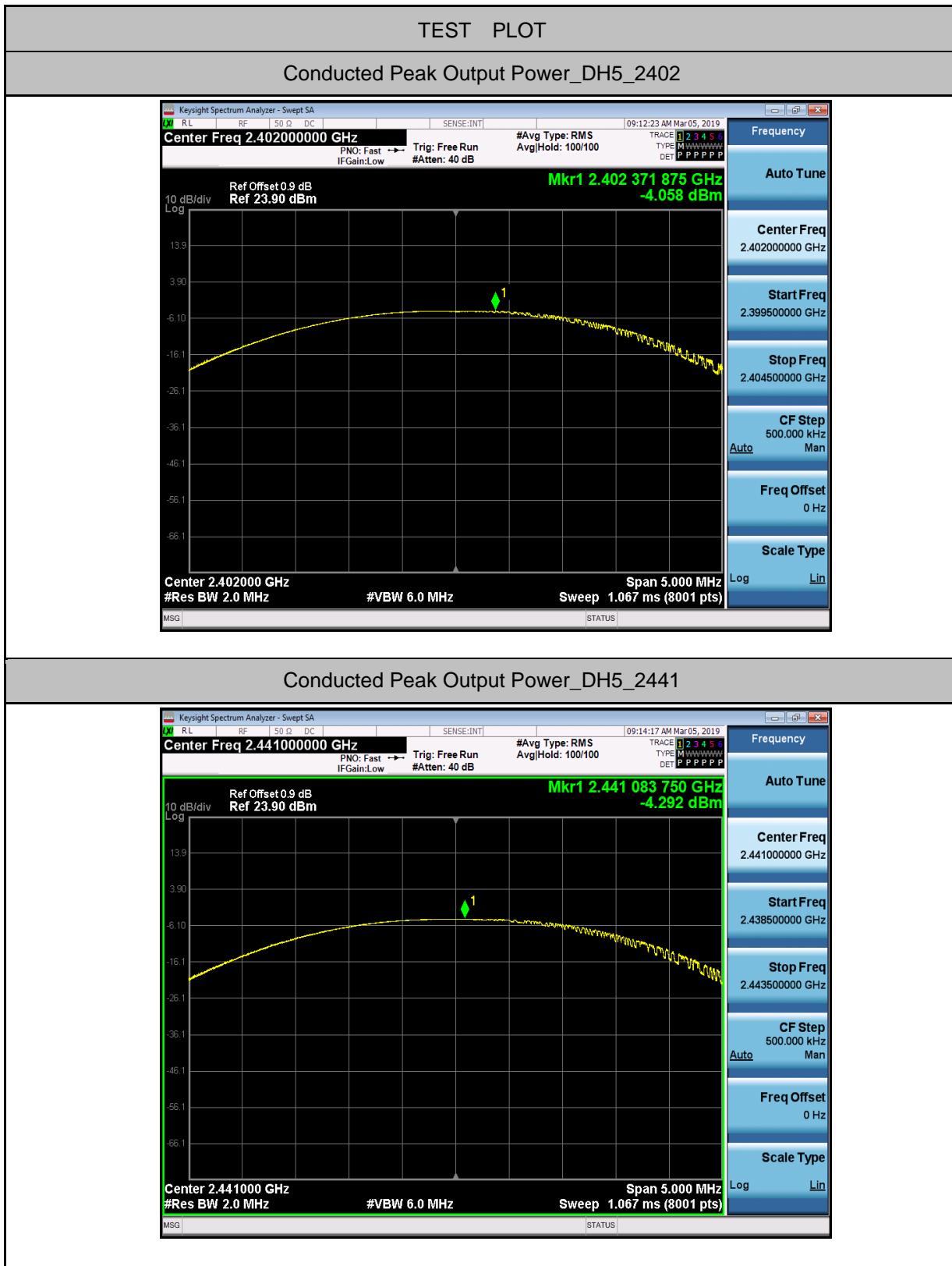
2. Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	-4.058	20.9	PASS
DH5	2441	-4.292	20.9	PASS
DH5	2480	-4.462	20.9	PASS
2DH5	2402	-5.282	20.9	PASS
2DH5	2441	-5.186	20.9	PASS
2DH5	2480	-5.775	20.9	PASS
3DH5	2402	-5.216	20.9	PASS
3DH5	2441	-5.367	20.9	PASS
3DH5	2480	-5.792	20.9	PASS



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Conducted Peak Output Power_DH5_2480



Conducted Peak Output Power_2DH5_2402



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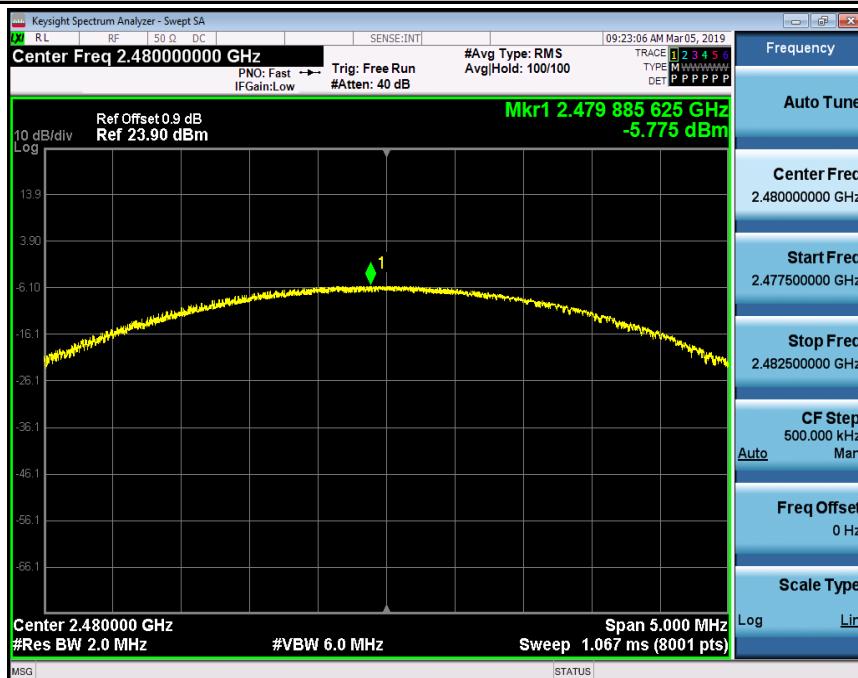
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Conducted Peak Output Power_2DH5_2441



Conducted Peak Output Power_2DH5_2480



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Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



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Conducted Peak Output Power_3DH5_2480



3. Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	1.026	0.522	PASS
DH5	2441	0.947	0.643	PASS
DH5	2480	1.012	0.644	PASS

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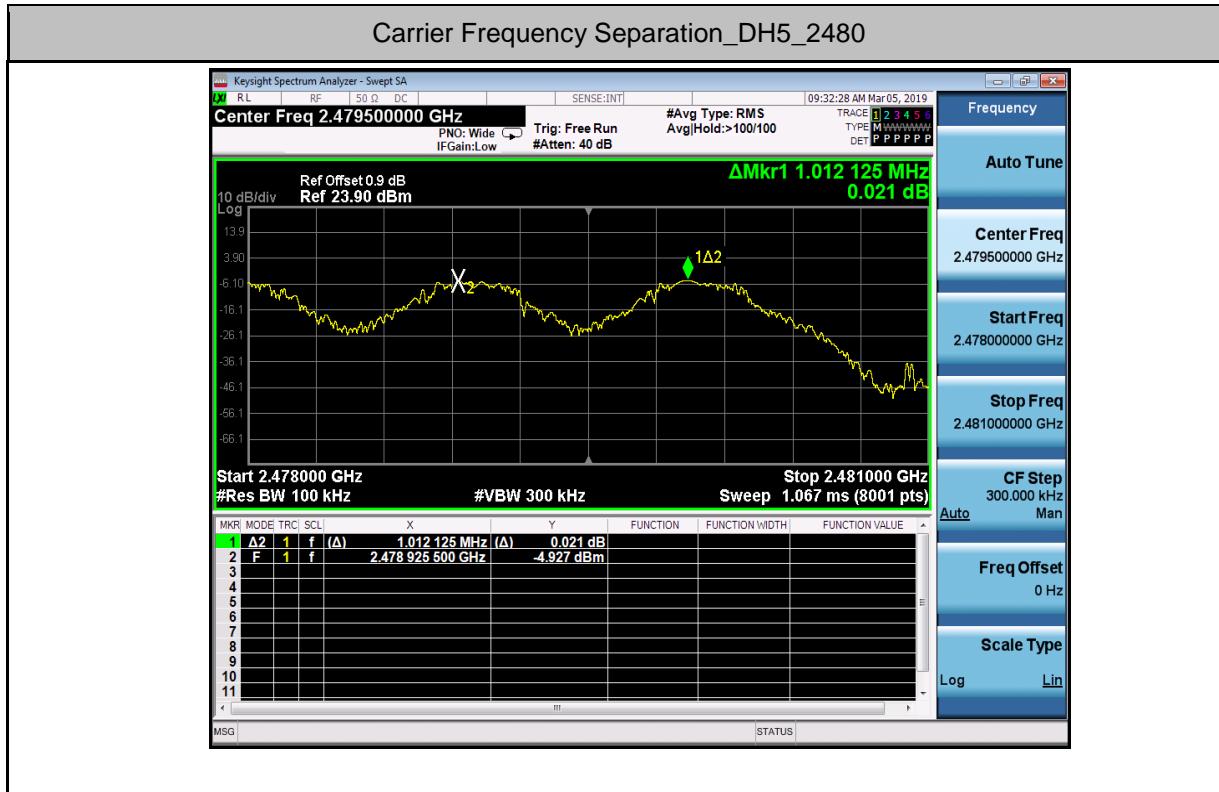




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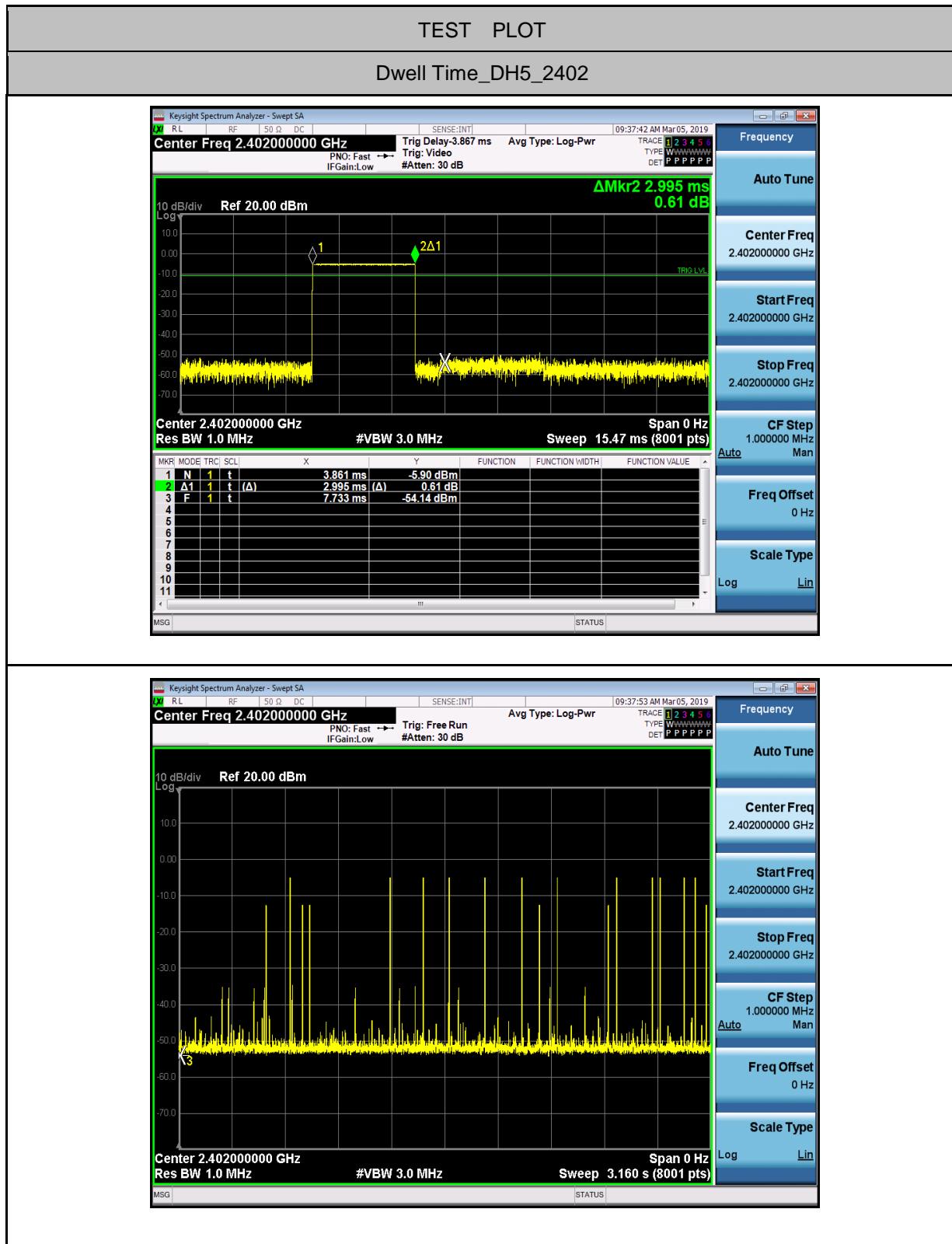
4.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.99	120	0.36	0.4	PASS
DH5	2441	2.99	110	0.33	0.4	PASS
DH5	2480	2.99	130	0.39	0.4	PASS
2DH5	2402	3.00	80	0.24	0.4	PASS
2DH5	2441	3.00	100	0.30	0.4	PASS
2DH5	2480	3.00	130	0.39	0.4	PASS
3DH5	2402	3.00	80	0.24	0.4	PASS
3DH5	2441	3.00	130	0.39	0.4	PASS
3DH5	2480	3.00	90	0.27	0.4	PASS

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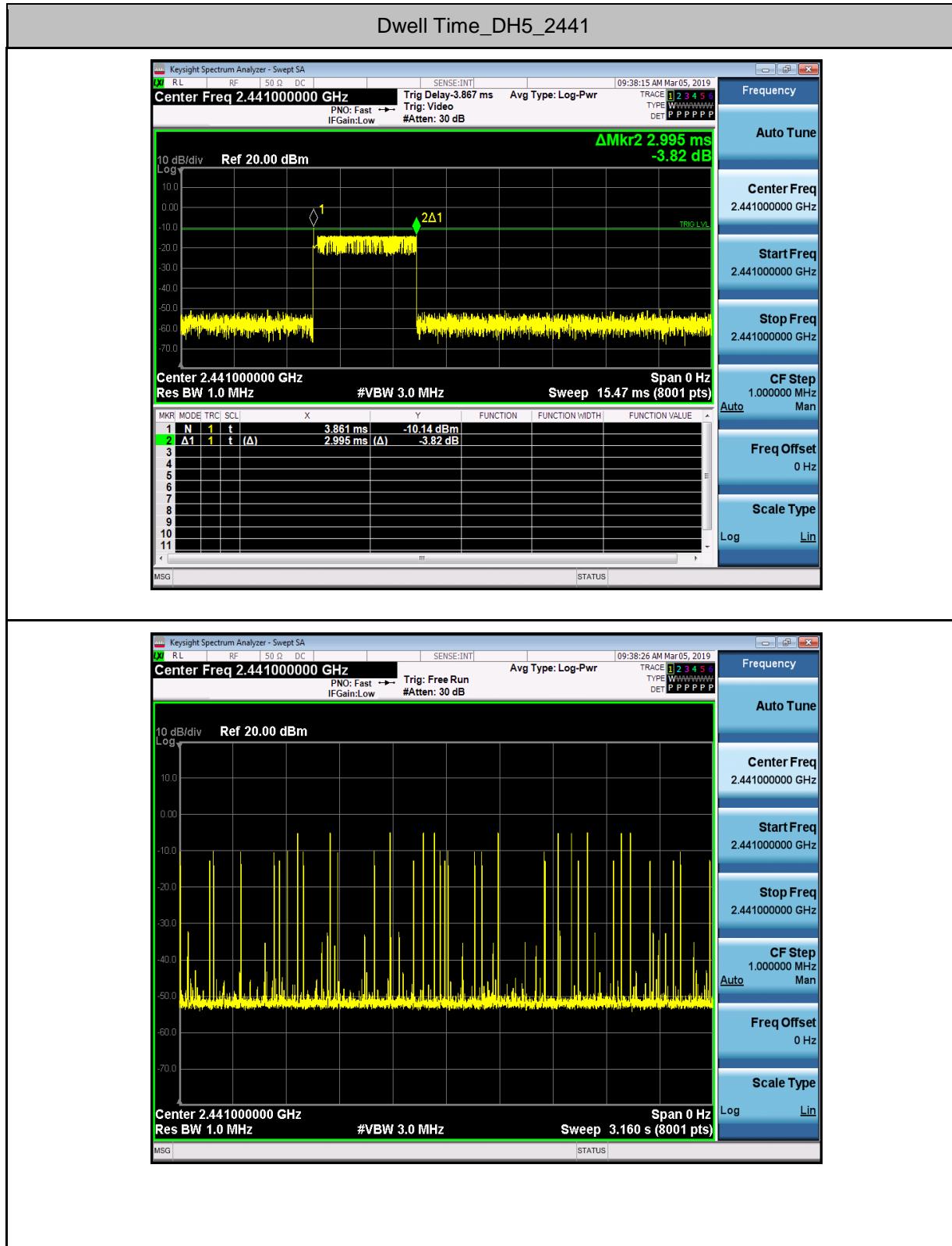


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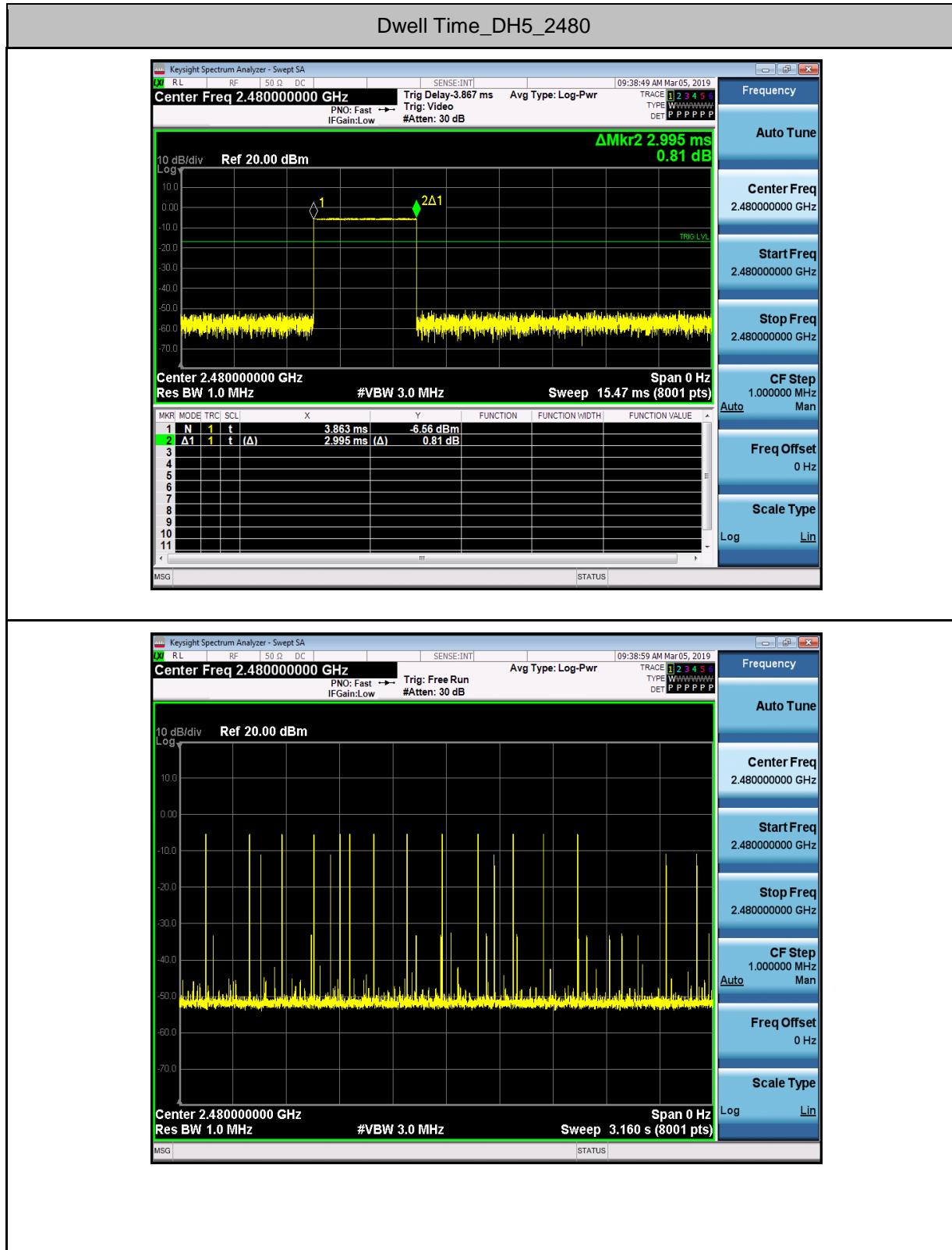
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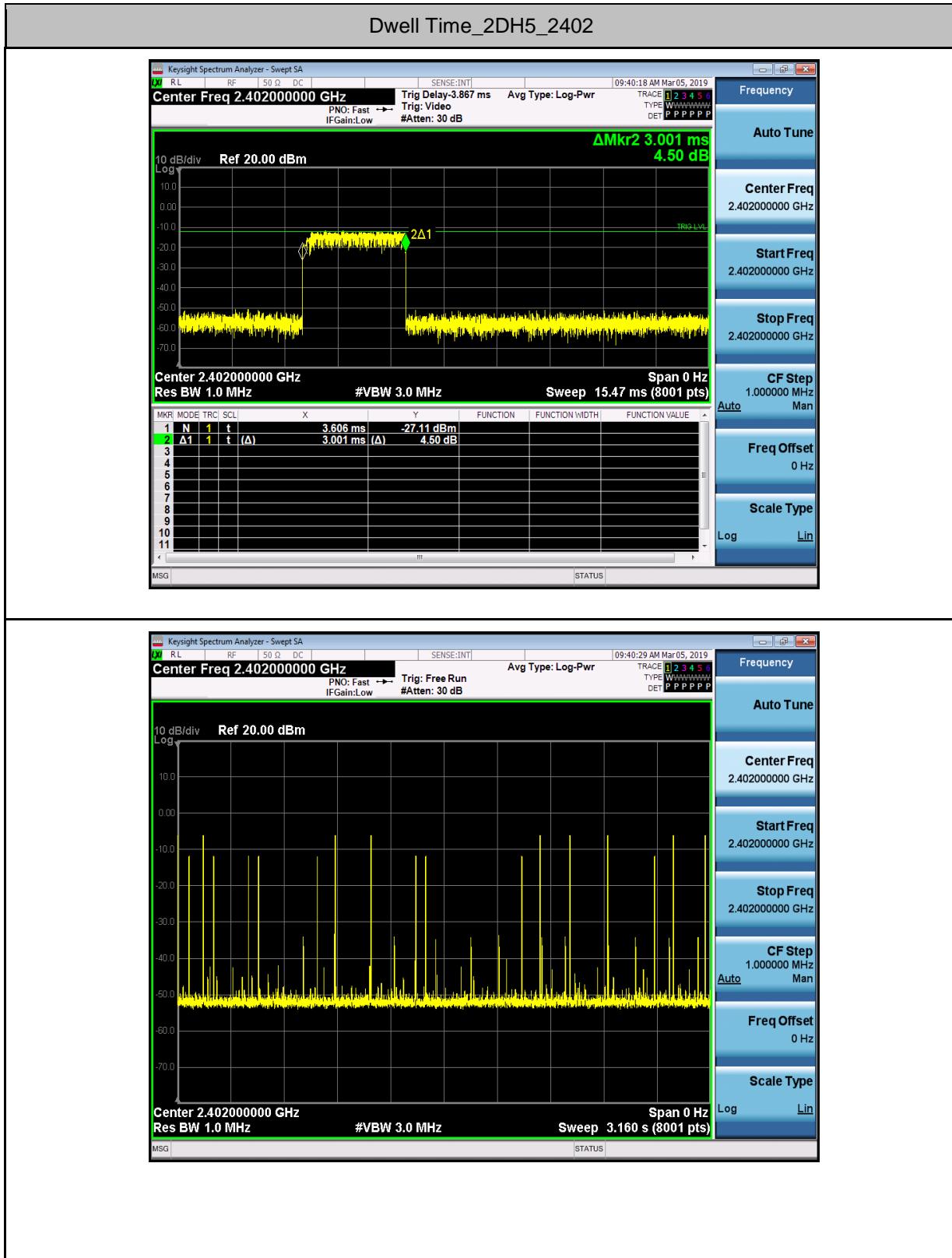




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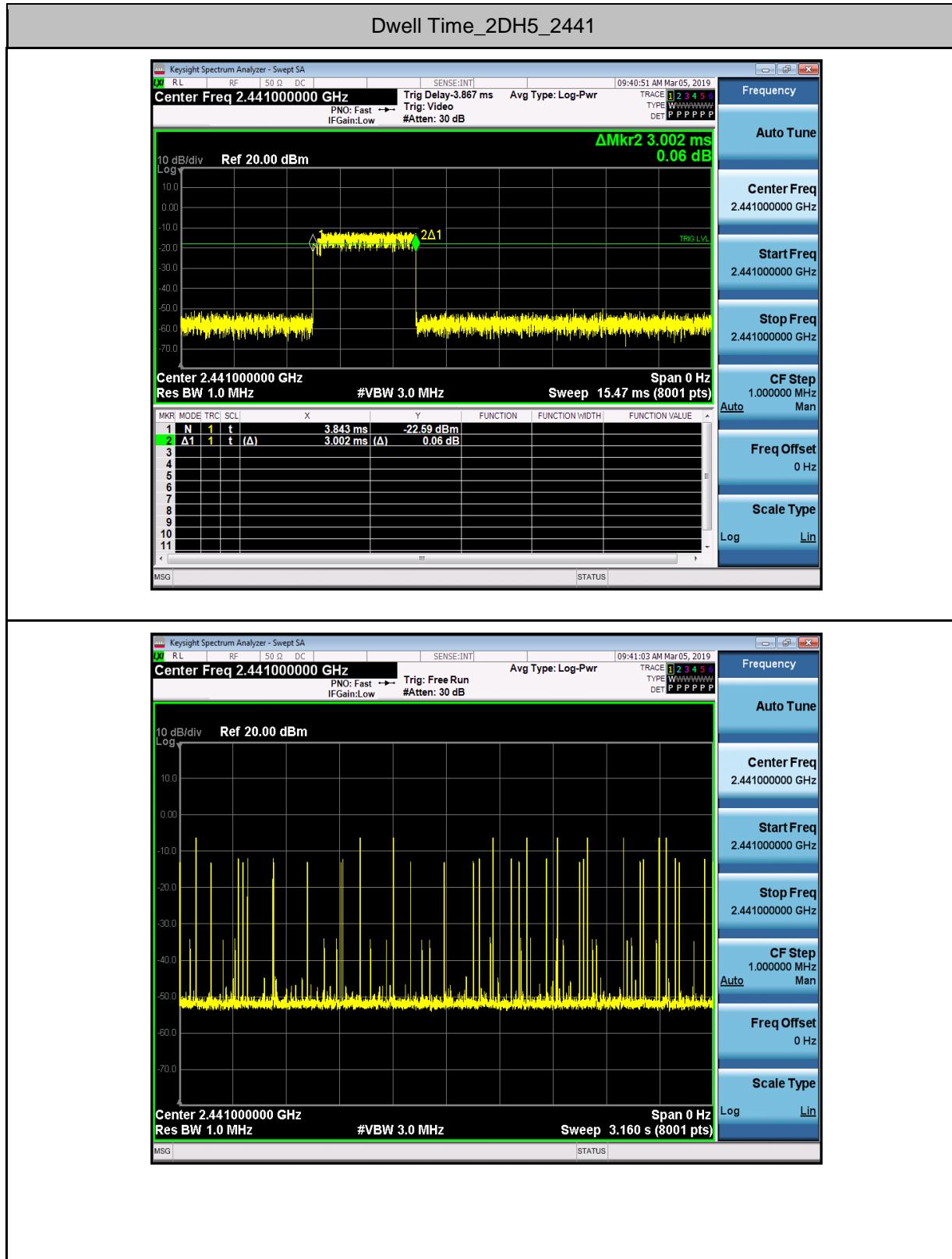




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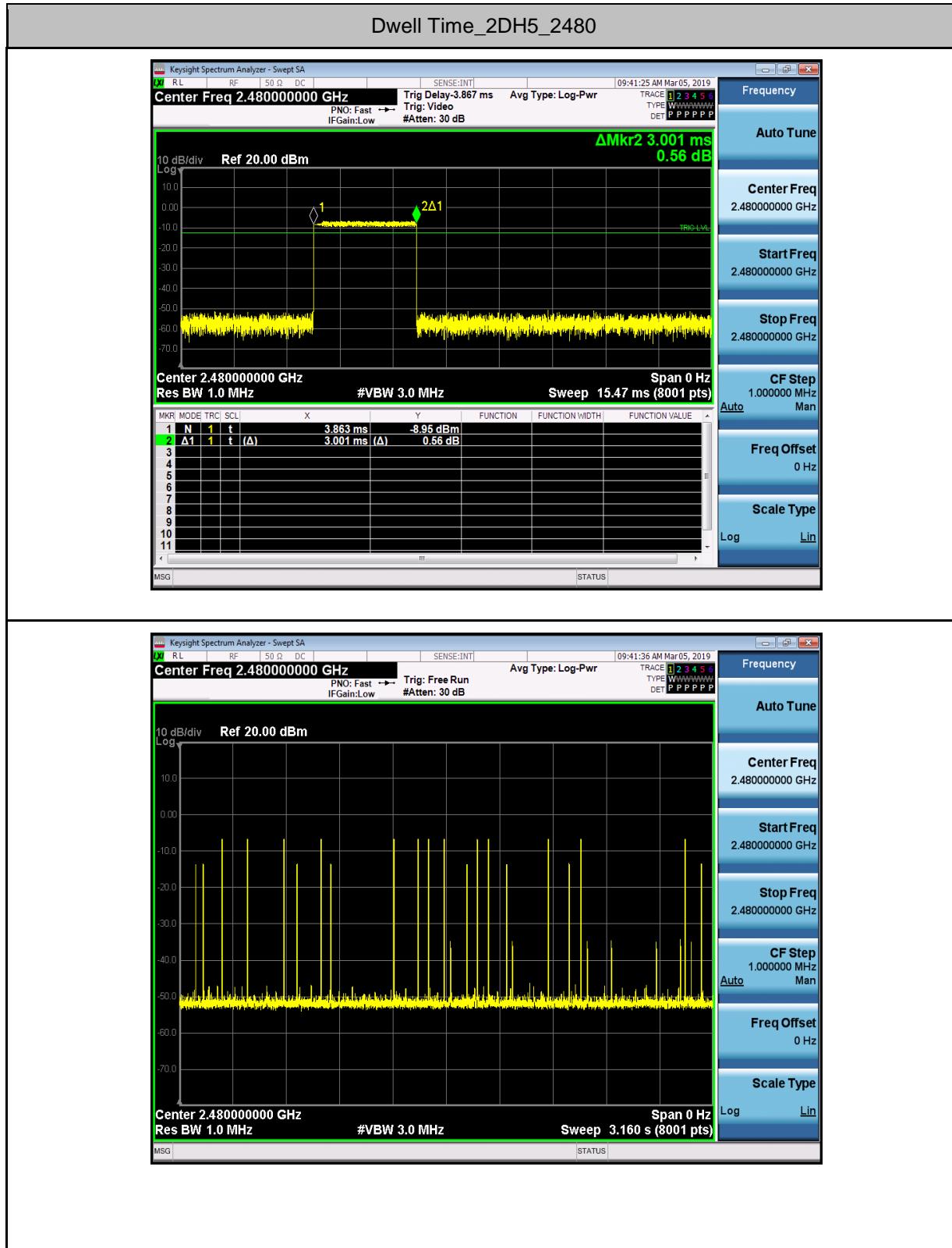




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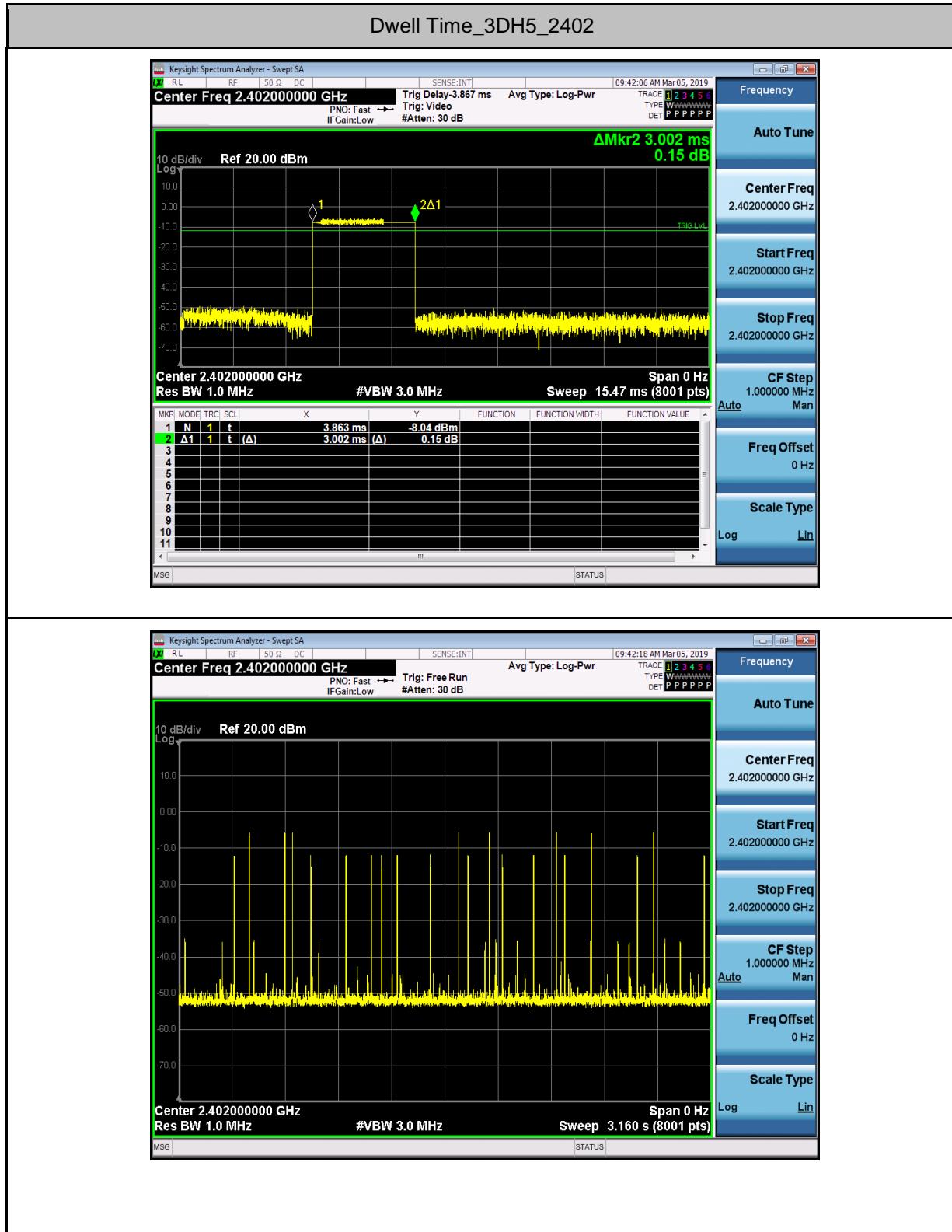
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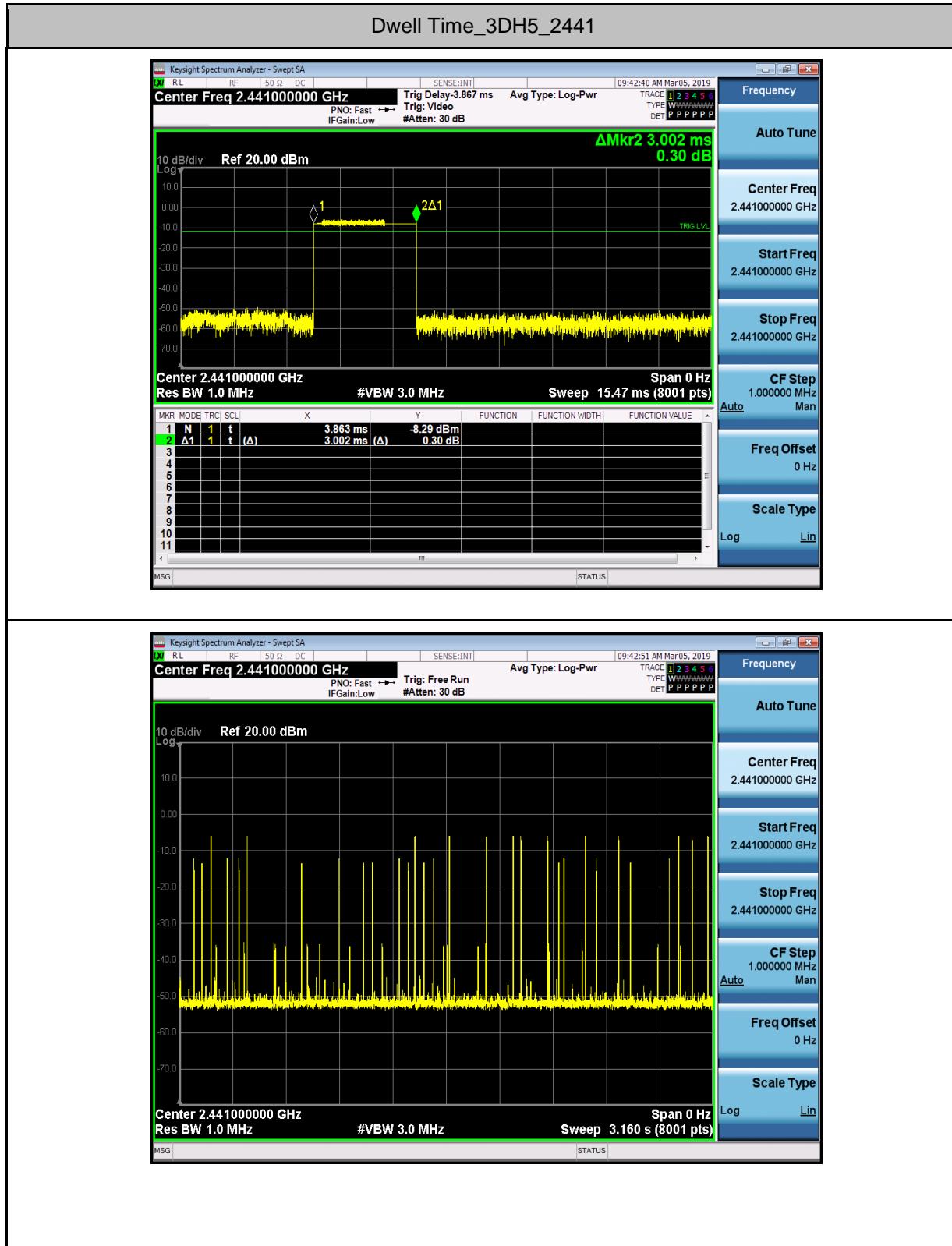
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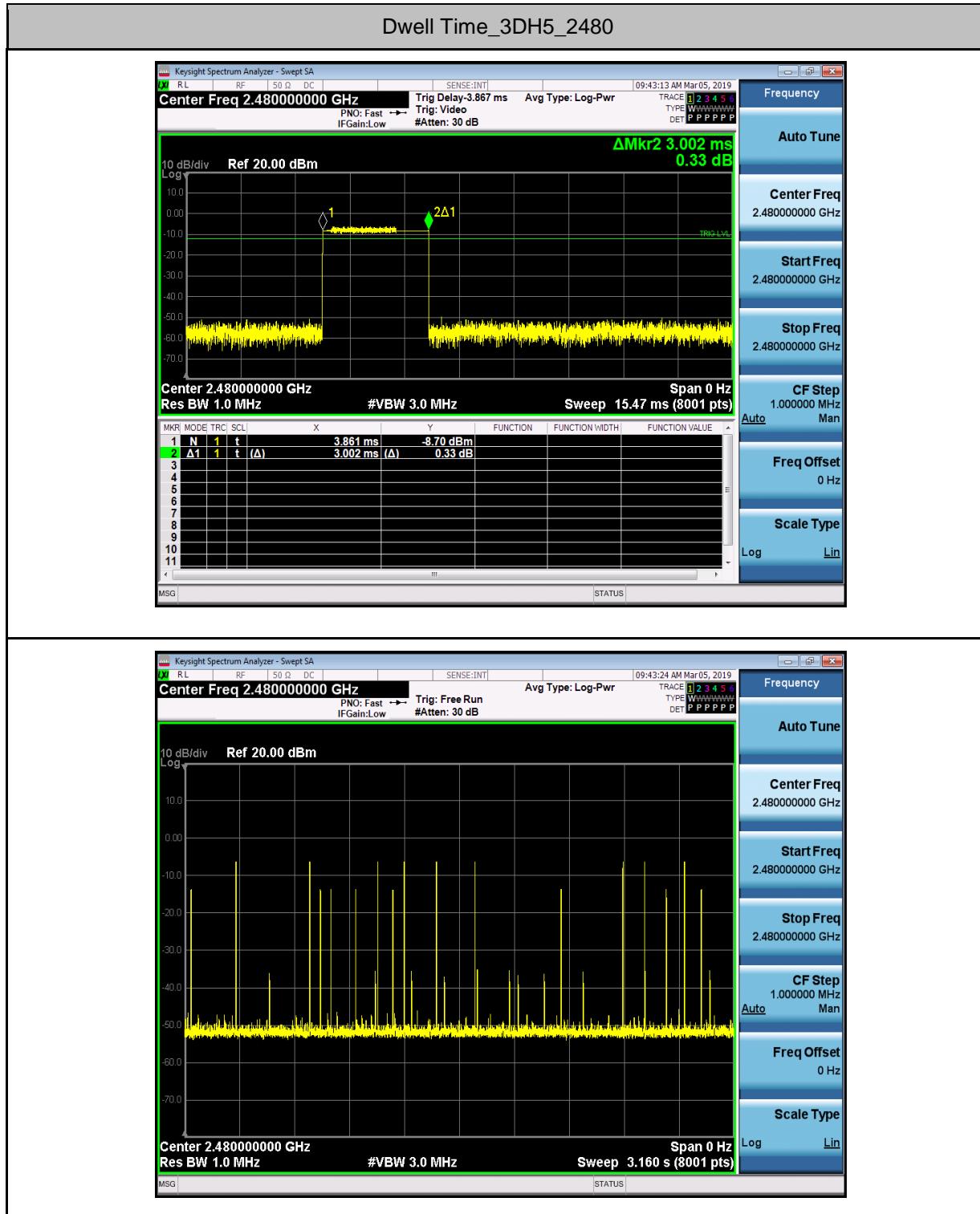




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5.Hopping Channel Number

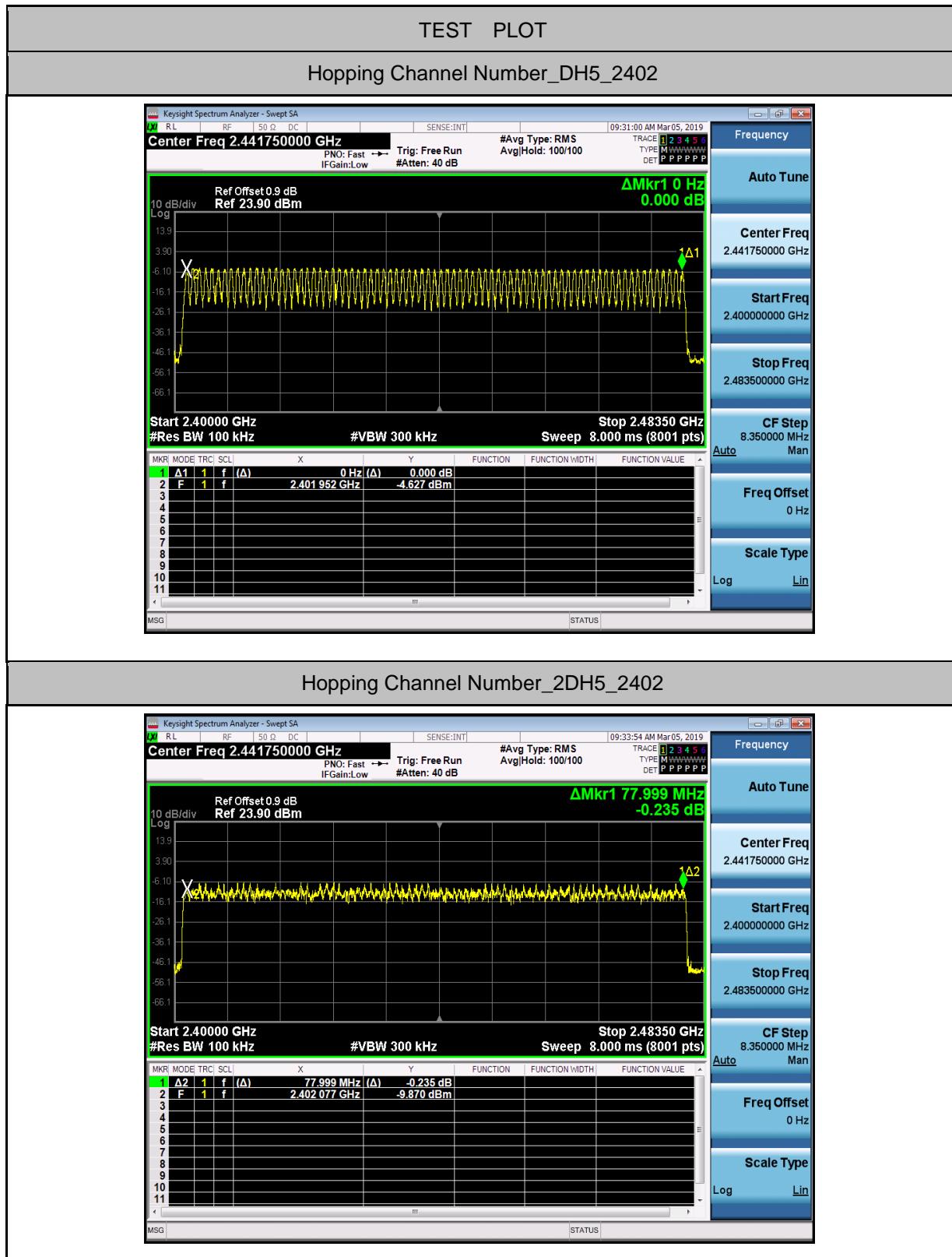
Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	>=15	PASS
2DH5	2402	79	>=15	PASS
3DH5	2402	79	>=15	PASS



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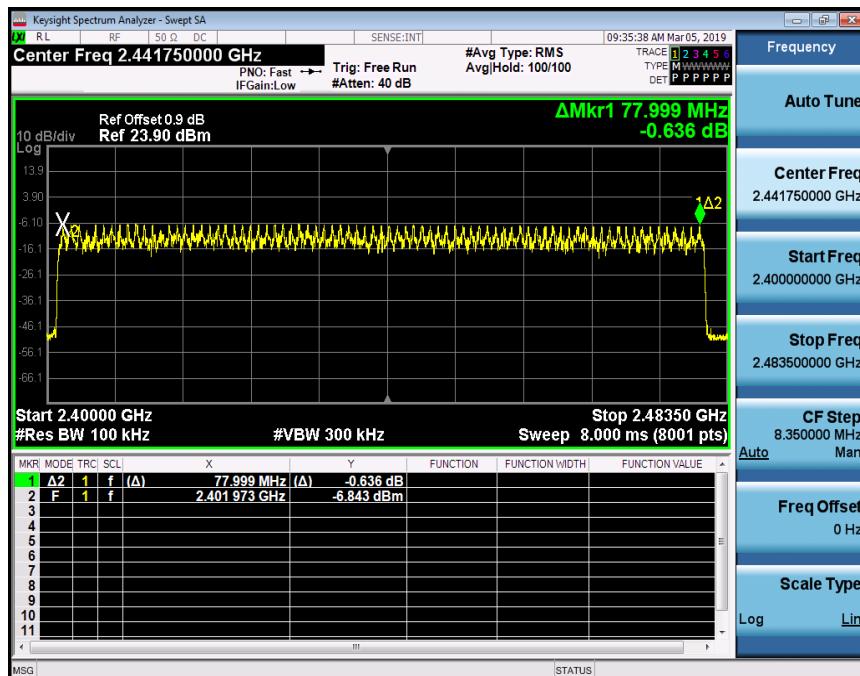


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Hopping Channel Number_3DH5_2402



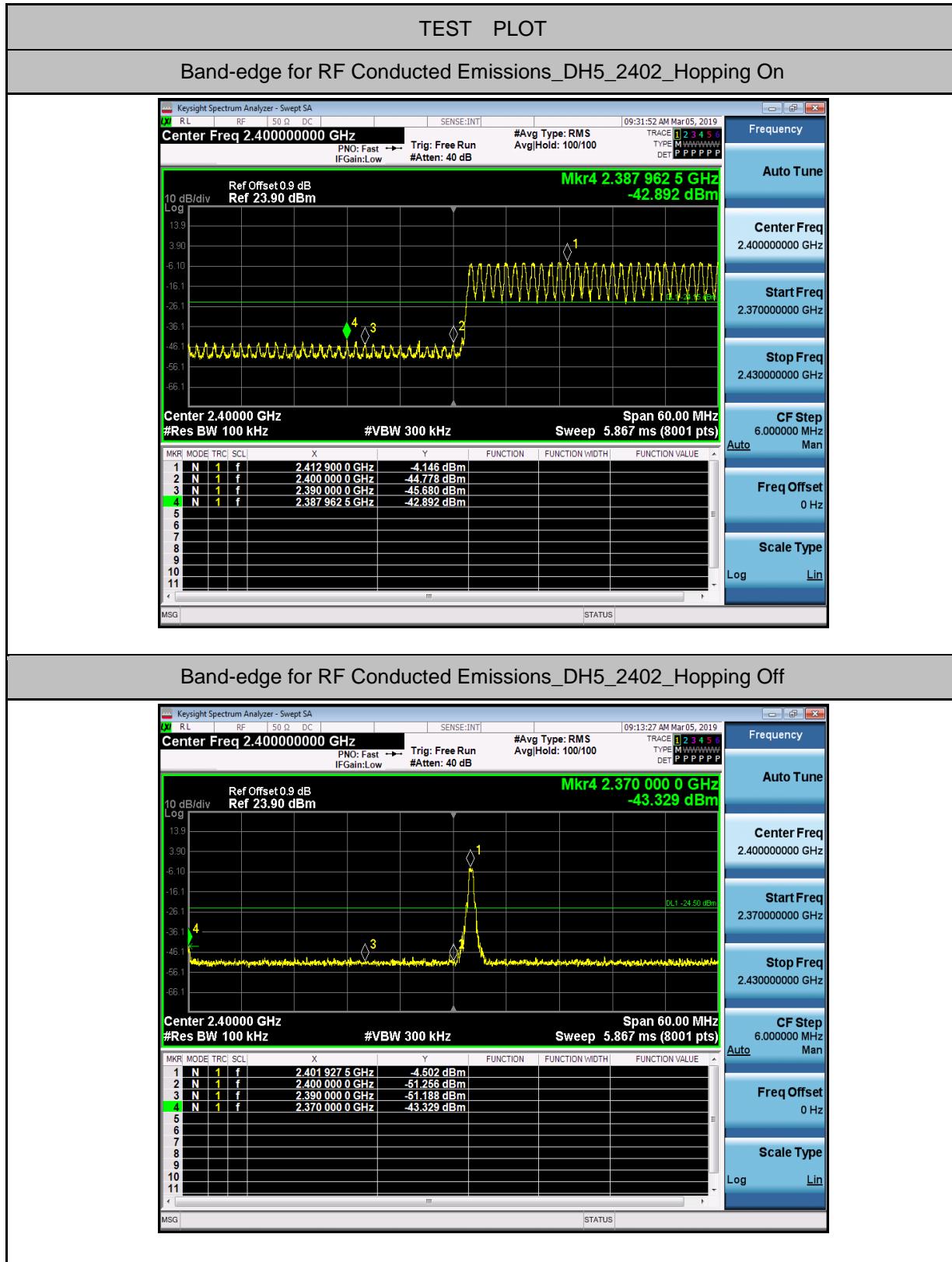
6. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	-4.146	-42.892	-24.15	PASS
DH5	2402	Off	-4.502	-43.329	-24.5	PASS
DH5	2480	On	-4.756	-46.059	-24.76	PASS
DH5	2480	Off	-4.881	-48.542	-24.88	PASS
2DH5	2402	On	-6.826	-45.546	-26.83	PASS
2DH5	2402	Off	-6.901	-47.194	-26.9	PASS
2DH5	2480	On	-7.239	-47.686	-27.24	PASS
2DH5	2480	Off	-7.374	-48.014	-27.37	PASS
3DH5	2402	On	-6.779	-44.884	-26.78	PASS
3DH5	2402	Off	-6.851	-46.388	-26.85	PASS
3DH5	2480	On	-7.309	-47.296	-27.31	PASS
3DH5	2480	Off	-7.354	-47.609	-27.35	PASS

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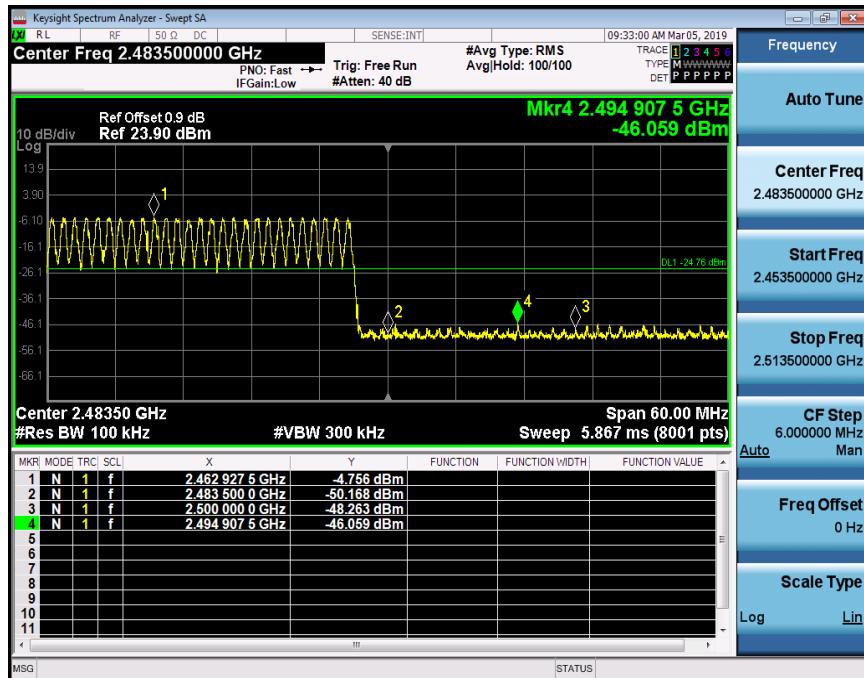


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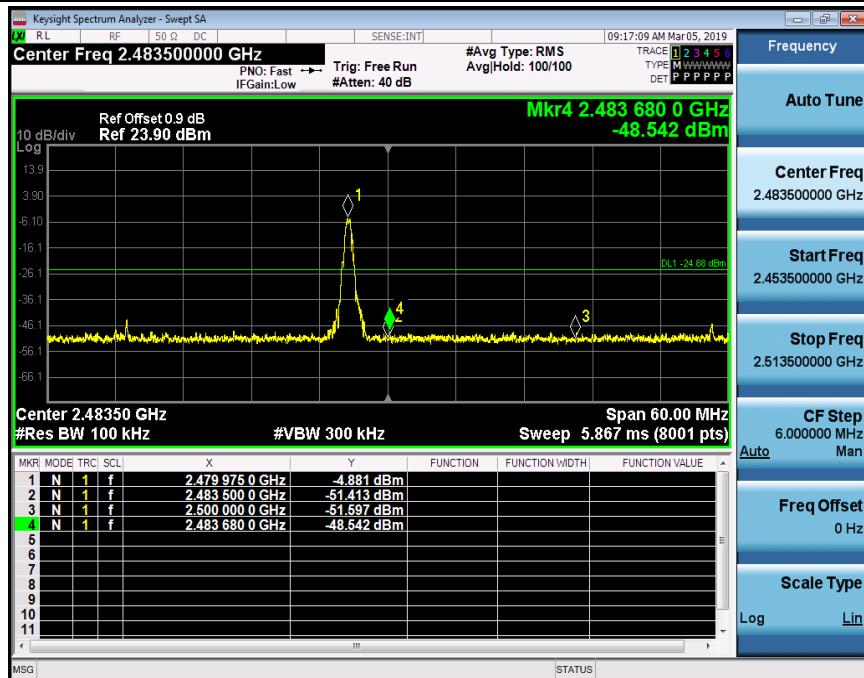
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Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



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