



RADIO TEST REPORT FCC ID: YB2-H101

Product: TRUE WIRELESS EARBUDS

Trade Mark: N/A

Model No.: H101

Family Model: N/A

Report No.: S22022800302001

Issue Date: Mar 23.2022

Prepared for

HONGTIANTAI(H.K.)CO.,LIMITED

2102Pakpolee Commercial Centre 1A Sai Yeung Choi Street South Monqkok Kowloon Hong Kong Sar, HONGKONG, China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's Name:	HONGTIANTAI(H.K.)CO.,LIMITED	
Address:	2102Pakpolee Commercial Centre 1A Sai Yeung Choi Street South	
	Monqkok Kowloon Hong Kong Sar, HONGKONG,China	
Manufacturer's Name:	HONGFUTAI E-TECH (SHENZHEN) CO., LIMITED	
Address:	4F, No.17, Xinxing Industrial Park, Xinhe Community, Fuhai Street,	
	Baoan District, Shenzhen 518103, China	
Product description		
Product name:	TRUE WIRELESS EARBUDS	
Model and/or type reference:	H101	
Family Model:	N/A	

Measurement Procedure Used:

Data of Toot

APPLICABLE STANDARDS			
STANDARD/ TEST PROCEDURE	TEST RESULT		
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C KDB 174176 D01 Line Conducted FAQ v01r01 ANSI C63.10-2013	Complied		

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

Eab 20 2022 Mar 22 2022

The test results of this report relate only to the tested sample identified in this report.

Date of Test	·	1 eb 20.2022 ~ Wai 25.2022
Testing Engineer	:	Many. Hu
		(Mary Hu)
		· · · · · · · · · · · · · · · · · · ·
		Alex
Authorized Signatory	:	
		(Alex Li)

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2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C				
Standard Section	Test Item	Verdict	Remark	
15.207	Conducted Emission	PASS		
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(b)(1)	Peak Output Power	PASS		
15.247(a)(iii)	Number of Hopping Frequency	PASS		
15.247(a)(iii)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	PASS		
15.247 (d)	Band Edge Emission	PASS		
15.247 (d)	Spurious RF Conducted Emission	PASS		
15.203	Antenna Requirement	PASS		

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- All test items were verified and recorded according to the standards and without any deviation during the test.

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	TRUE WIRELESS EARBUDS	
Trade Mark	N/A	
FCC ID	YB2-H101	
Model No.	H101	
Series no.	S220228003001	
Family Model	N/A	
Model Difference	N/A	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	Ceramic antenna	
Antenna Gain	2 dBi	
Power supply		
HW Version	N11-16E-V1.2	
SW Version	sdk_ab5616e2_s780_20210721	

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

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Revision History

Version	Description	Issued Date
Rev.01	Initial issue of report	Mar 23.2022
		·

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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for $\pi/4$ -DQPSK modulation; 3Mbps for 8-DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2403
	•••
39	2441
40	2442
	•••
77	2479
78	2480

Note: fc=2402MHz+k×1MHz k=0 to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

For AC Conducted Emission		
Final Test Mode	Description	
Mode 1	Charging	

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases	
Final Test Mode	Description
Mode 2	normal link mode
Mode 3	CH00(2402MHz)
Mode 4	CH39(2441MHz)
Mode 5	CH78(2480MHz)

Note: For radiated test cases, the worst mode data rate 2Mbps on left and 2Mbps on right was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

For Conducted Test Cases		
Final Test Mode	Description	
Mode 3	CH00(2402MHz)	
Mode 4	CH39(2441MHz)	
Mode 5	CH78(2480MHz)	
Mode 6	Hopping mode	

Note: The manufacturer provides engineering testing software (FCC Assist 1.0.2.2) and the EUT was programmed to be in continuously transmitting mode, the power level is the software default value.

1. AC power line Conducted Emission was tested under maximum output power.

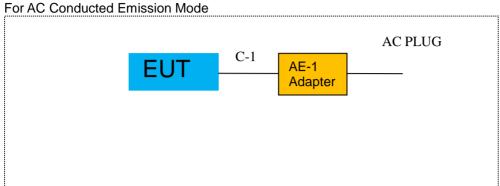
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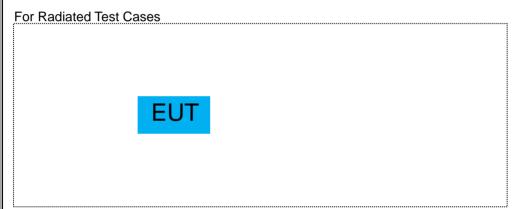


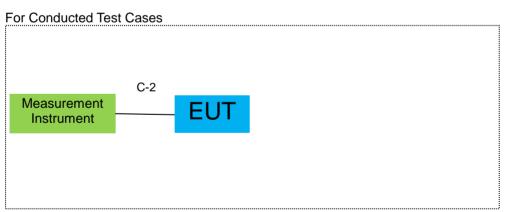


6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM







Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

2. EUT built-in battery-powered, the battery is fully-charged.

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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

.00.0.					
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	0.3m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Radiati	on& Conducted T	est equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2021.11.07	2022.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2021.11.07	2022.11.06	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2021.07.01	2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2019.6.28	2022.6.27	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

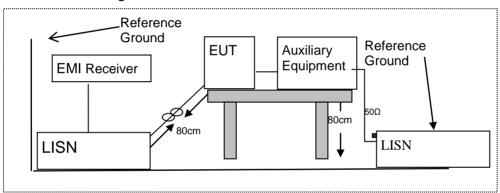
Conformance Limit

Fraguerov/MHz)	Conducted Emission Limit						
Frequency(MHz)	Quasi-peak	Average					
0.15-0.5	66-56*	56-46*					
0.5-5.0	56	46					
5.0-30.0	60	50					

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.2 Test Configuration



7.1.3 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

7.1.4 Test Results

Pass

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7.1.5 Test Results

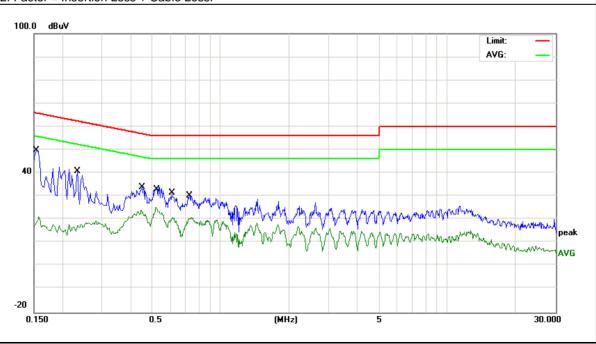
Left

EUT:	TRUE WIRELESS EARBUDS	Model Name:	H101
Temperature:	20.5 ℃	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	40.14	9.72	49.86	65.78	-15.92	QP
0.1539	11.43	9.72	21.15	55.78	-34.63	AVG
0.2340	31.18	9.63	40.81	62.30	-21.49	QP
0.2340	8.21	9.63	17.84	52.30	-34.46	AVG
0.4460	24.53	9.64	34.17	56.95	-22.78	QP
0.4460	14.38	9.64	24.02	46.95	-22.93	AVG
0.5180	24.75	9.65	34.40	56.00	-21.60	QP
0.5180	15.45	9.65	25.10	46.00	-20.90	AVG
0.6100	21.63	9.69	31.32	56.00	-24.68	QP
0.6100	11.23	9.69	20.92	46.00	-25.08	AVG
0.7300	20.61	9.74	30.35	56.00	-25.65	QP
0.7300	11.11	9.74	20.85	46.00	-25.15	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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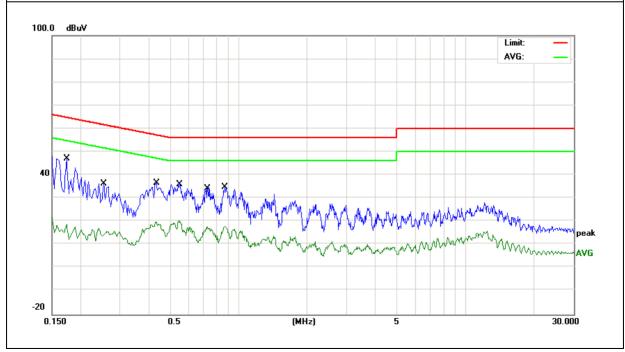


EUT:	TRUE WIRELESS EARBUDS	Model Name:	H101
Temperature:	20.5℃	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	Ν
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1740	37.43	9.63	47.06	64.76	-17.70	QP
0.1740	9.16	9.63	18.79	54.76	-35.97	AVG
0.2540	26.54	9.65	36.19	61.62	-25.43	QP
0.2540	6.10	9.65	15.75	51.62	-35.87	AVG
0.4340	26.82	9.72	36.54	57.18	-20.64	QP
0.4340	10.07	9.72	19.79	47.18	-27.39	AVG
0.5420	27.19	9.72	36.91	56.00	-19.09	QP
0.5420	10.55	9.72	20.27	46.00	-25.73	AVG
0.7260	25.17	9.65	34.82	56.00	-21.18	QP
0.7260	7.98	9.65	17.63	46.00	-28.37	AVG
0.8700	25.09	9.70	34.79	56.00	-21.21	QP
0.8700	8.33	9.70	18.03	46.00	-27.97	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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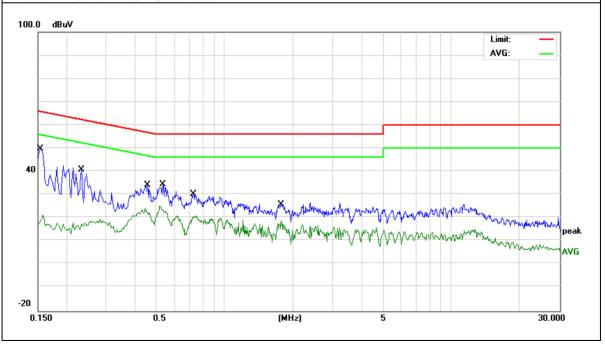
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EUT:	TRUE WIRELESS EARBUDS	Model Name:	H101
Temperature:	20.5 ℃	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	40.14	9.72	49.86	65.78	-15.92	QP
0.1539	11.43	9.72	21.15	55.78	-34.63	AVG
0.2340	31.18	9.63	40.81	62.30	-21.49	QP
0.2340	8.99	9.63	18.62	52.30	-33.68	AVG
0.4580	24.53	9.64	34.17	56.73	-22.56	QP
0.4580	14.38	9.64	24.02	46.73	-22.71	AVG
0.5340	24.74	9.66	34.40	56.00	-21.60	QP
0.5340	15.44	9.66	25.10	46.00	-20.90	AVG
0.7298	20.61	9.74	30.35	56.00	-25.65	QP
0.7298	11.11	9.74	20.85	46.00	-25.15	AVG
1.7780	16.14	9.76	25.90	56.00	-30.10	QP
1.7780	9.16	9.76	18.92	46.00	-27.08	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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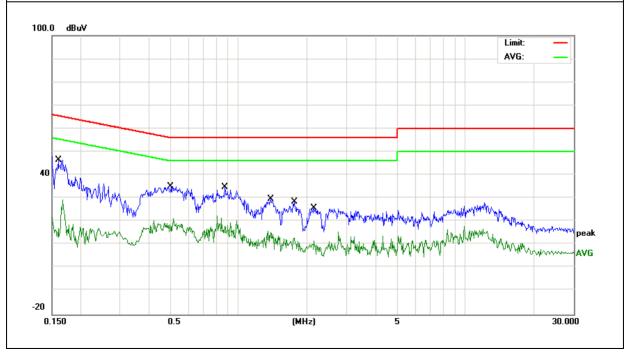


EUT:	TRUE WIRELESS EARBUDS	Model Name:	H101
Temperature:	20.5℃	Relative Humidity:	51%
Pressure:	1010hPa	Phase :	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark	
0.1597	36.89	9.63	46.52	65.47	-18.95	QP	
0.1597	19.65	9.63	29.28	55.47	-26.19	AVG	
0.5020	25.46	9.74	35.20	56.00	-20.80	QP	
0.5020	11.64	9.74	21.38	46.00	-24.62	AVG	
0.8699	25.09	9.70	34.79	56.00	-21.21	QP	
0.8699	10.74	9.70	20.44	46.00	-25.56	AVG	
1.3858	20.09	9.71	29.80	56.00	-26.20	QP	
1.3858	6.18	9.71	15.89	46.00	-30.11	AVG	
1.7620	18.76	9.68	28.44	56.00	-27.56	QP	
1.7620	3.28	9.68	12.96	46.00	-33.04	AVG	
2.1459	16.23	9.67	25.90	56.00	-30.10	QP	
2.1459	2.02	9.67	11.69	46.00	-34.31	AVG	

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205, Restricted bands

MHz	MHz MHz		GHz
0.090-0.110	90-0.110 16.42-16.423 399.9-410		4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

obtricted barra openined on relization, their trie relization and table below had to be relieved.						
Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (μV/m) Field Strength (dBμV/m)				
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300			
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30			
1.705~30.0	30	29.5	30			
30-88	100	40	3			
88-216	150	43.5	3			
216-960	200	46	3			
Above 960	500	54	3			

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV	(m) (at 3M)
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

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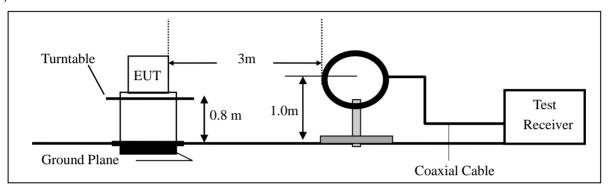
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

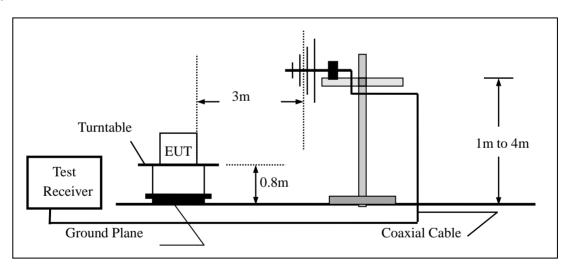
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

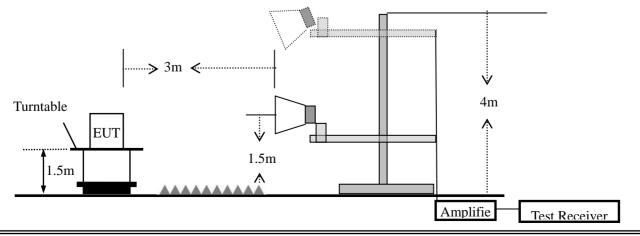
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

<u> </u>	
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:
 - Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

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During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
About 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

I = 1 1 1 ·	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/Mode4/Mode5	Test By:	Mary Hu

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3	m(dBuV/m)	Ovei	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

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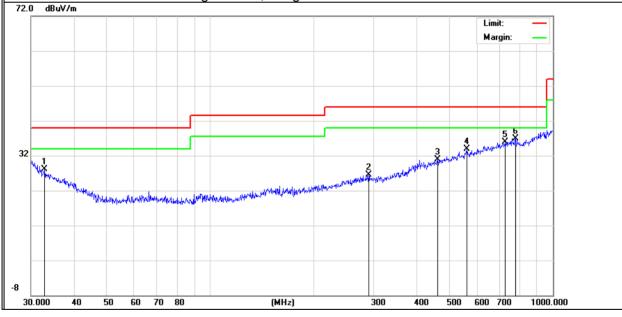
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

7 in the medical medica have been tested, and the meter result has report as below.						
EUT:	TRUE WIRELESS EARBUDS	Model Name:	H101			
Temperature:	24.5 ℃	Relative Humidity:	51%			
Pressure:	1010hPa	Test Mode:	π/4-DQPSK -CH39			
Test Voltage: DC 5V from Adapter AC 120V/60Hz (Left)						

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.8637	5.90	22.12	28.02	40.00	-11.98	QP
V	290.0172	6.36	20.19	26.55	46.00	-19.45	QP
V	460.7271	5.77	25.15	30.92	46.00	-15.08	QP
V	560.6928	6.96	26.98	33.94	46.00	-12.06	QP
V	724.2611	7.04	28.87	35.91	46.00	-10.09	QP
V	776.8777	7.70	29.20	36.90	46.00	-9.10	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit



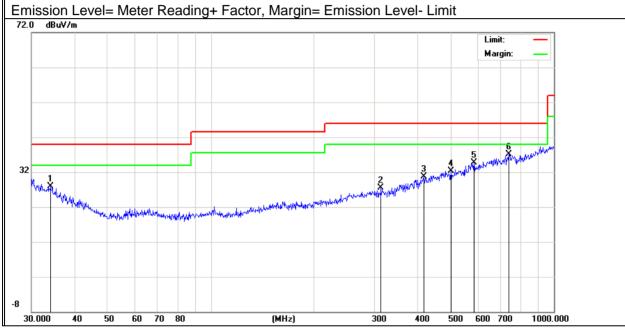
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Polar	Frequency	Meter Reading	Factor I imits		Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	34.0363	6.33	21.51	27.84	40.00	-12.16	QP
Н	313.2760	6.98	20.52	27.50	46.00	-18.50	QP
Н	417.6409	6.36	24.36	30.72	46.00	-15.28	QP
Н	501.1788	6.61	25.79	32.40	46.00	-13.60	QP
Н	584.7894	7.51	27.19	34.70	46.00	-11.30	QP
Н	739.6603	7.98	29.12	37.10	46.00	-8.90	QP

Remark:



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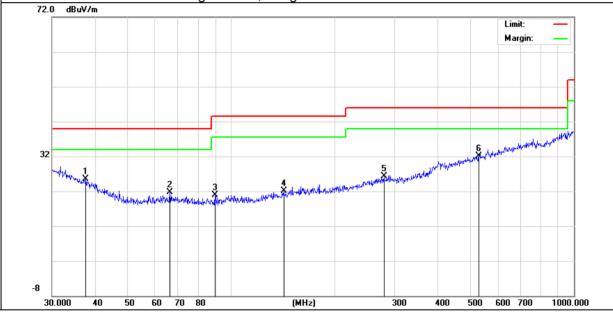


EUT:	TRUE WIRELESS EARBUDS	Model Name:	H101				
Temperature:	24.5 ℃	Relative Humidity:	51%				
Pressure:	1010hPa Test Mode: π/4-DQPSK -CH00						
Test Voltage:	DC 5V from Adapter AC 120V/60Hz (Right)						

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	37.6798	5.81	19.62	25.43	40.00	-14.57	QP
V	66.2661	7.02	14.69	21.71	40.00	-18.29	QP
V	89.5899	6.55	14.44	20.99	43.50	-22.51	QP
V	142.3243	5.81	16.22	22.03	43.50	-21.47	QP
V	279.0436	6.36	20.01	26.37	46.00	-19.63	QP
V	528.2458	5.87	26.33	32.20	46.00	-13.80	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit



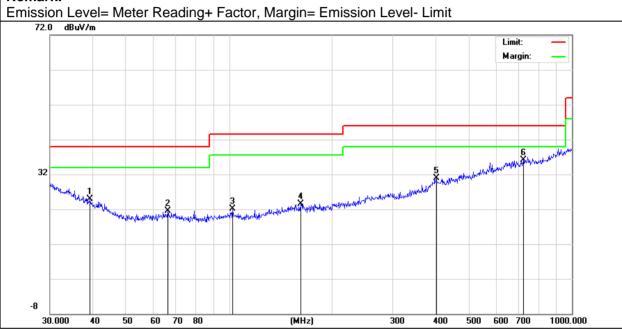
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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	39.2991	6.16	18.77	24.93	40.00	-15.07	QP
Н	66.2661	6.72	14.69	21.41	40.00	-18.59	QP
Н	102.3597	6.83	15.19	22.02	43.50	-21.48	QP
Н	161.4742	6.44	17.03	23.47	43.50	-20.03	QP
Н	401.8385	6.15	24.80	30.95	46.00	-15.05	QP
Н	721.7259	7.27	28.81	36.08	46.00	-9.92	QP

Remark:



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■ Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/Mode4/Mode5	Test By:	Mary Hu

All the modulation modes have been tested, and the worst result was report as below:

Left										
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
Low Channel (2402 MHz)(π/4-DQPSK)Above 1G										
4804.40	63.23	5.21	35.59	44.30	59.73	74.00	-14.27	Pk	Vertical	
4804.40	43.18	5.21	35.59	44.30	39.68	54.00	-14.32	AV	Vertical	
7206.16	63.41	6.48	36.27	44.60	61.56	74.00	-12.44	Pk	Vertical	
7206.16	43.14	6.48	36.27	44.60	41.29	54.00	-12.71	AV	Vertical	
4804.71	63.45	5.21	35.55	44.30	59.91	74.00	-14.09	Pk	Horizontal	
4804.71	42.65	5.21	35.55	44.30	39.11	54.00	-14.89	AV	Horizontal	
7206.03	60.52	6.48	36.27	44.52	58.75	74.00	-15.25	Pk	Horizontal	
7206.03	43.22	6.48	36.27	44.52	41.45	54.00	-12.55	AV	Horizontal	
	Mid Channel (2441 MHz)(π/4-DQPSK)Above 1G									
4883.00	67.37	5.21	35.66	44.20	64.04	74.00	-9.96	Pk	Vertical	
4883.00	43.03	5.21	35.66	44.20	39.70	54.00	-14.30	AV	Vertical	
7323.76	61.66	7.10	36.50	44.43	60.83	74.00	-13.17	Pk	Vertical	
7323.76	43.64	7.10	36.50	44.43	42.81	54.00	-11.19	AV	Vertical	
4882.18	64.09	5.21	35.66	44.20	60.76	74.00	-13.24	Pk	Horizontal	
4882.18	40.54	5.21	35.66	44.20	37.21	54.00	-16.79	AV	Horizontal	
7324.34	59.14	7.10	36.50	44.43	58.31	74.00	-15.69	Pk	Horizontal	
7324.34	43.17	7.10	36.50	44.43	42.34	54.00	-11.66	AV	Horizontal	
		F	ligh Chann	el (2480 M	Hz)(π/4-DC	QPSK) Abo	ve 1G			
4959.31	65.52	5.21	35.52	44.21	62.04	74.00	-11.96	Pk	Vertical	
4959.31	43.42	5.21	35.52	44.21	39.94	54.00	-14.06	AV	Vertical	
7439.19	62.26	7.10	36.53	44.60	61.29	74.00	-12.71	Pk	Vertical	
7439.19	42.24	7.10	36.53	44.60	41.27	54.00	-12.73	AV	Vertical	
4960.02	60.94	5.21	35.52	44.21	57.46	74.00	-16.54	Pk	Horizontal	
4960.02	43.63	5.21	35.52	44.21	40.15	54.00	-13.85	AV	Horizontal	
7440.00	60.00	7.10	36.53	44.60	59.03	74.00	-14.97	Pk	Horizontal	
7440.00	43.81	7.10	36.53	44.60	42.84	54.00	-11.16	AV	Horizontal	

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R	i	a	h	t

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
Low Channel (2402 MHz)(π/4-DQPSK)Above 1G									
4804.89	65.72	5.21	35.59	44.30	62.22	74.00	-11.78	Pk	Vertical
4804.89	43.44	5.21	35.59	44.30	39.94	54.00	-14.06	AV	Vertical
7206.23	64.05	6.48	36.27	44.60	62.20	74.00	-11.80	Pk	Vertical
7206.23	43.25	6.48	36.27	44.60	41.40	54.00	-12.60	AV	Vertical
4804.73	61.70	5.21	35.55	44.30	58.16	74.00	-15.84	Pk	Horizontal
4804.73	42.95	5.21	35.55	44.30	39.41	54.00	-14.59	AV	Horizontal
7206.96	61.36	6.48	36.27	44.52	59.59	74.00	-14.41	Pk	Horizontal
7206.96	43.92	6.48	36.27	44.52	42.15	54.00	-11.85	AV	Horizontal
			Mid Chanr	nel (2441 M	1Hz)(π/4-D	QPSK)Abo	ve 1G		
4882.15	66.93	5.21	35.66	44.20	63.60	74.00	-10.40	Pk	Vertical
4882.15	43.73	5.21	35.66	44.20	40.40	54.00	-13.60	AV	Vertical
7323.97	64.55	7.10	36.50	44.43	63.72	74.00	-10.28	Pk	Vertical
7323.97	43.68	7.10	36.50	44.43	42.85	54.00	-11.15	AV	Vertical
4882.07	62.41	5.21	35.66	44.20	59.08	74.00	-14.92	Pk	Horizontal
4882.07	43.11	5.21	35.66	44.20	39.78	54.00	-14.22	AV	Horizontal
7324.79	62.67	7.10	36.50	44.43	61.84	74.00	-12.16	Pk	Horizontal
7324.79	42.42	7.10	36.50	44.43	41.59	54.00	-12.41	AV	Horizontal
			High Chani	nel (2480 M	/Hz)(π/4-D	QPSK) Ab	ove 1G		
4959.99	63.71	5.21	35.52	44.21	60.23	74.00	-13.77	Pk	Vertical
4959.99	43.78	5.21	35.52	44.21	40.30	54.00	-13.70	AV	Vertical
7439.43	62.86	7.10	36.53	44.60	61.89	74.00	-12.11	Pk	Vertical
7439.43	42.05	7.10	36.53	44.60	41.08	54.00	-12.92	AV	Vertical
4960.44	60.83	5.21	35.52	44.21	57.35	74.00	-16.65	Pk	Horizontal
4960.44	43.97	5.21	35.52	44.21	40.49	54.00	-13.51	AV	Horizontal
7440.60	61.19	7.10	36.53	44.60	60.22	74.00	-13.78	Pk	Horizontal
7440.60	43.53	7.10	36.53	44.60	42.56	54.00	-11.44	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

IFIII:	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/ Mode5	Test By:	Mary Hu

All the modulation modes have been tested, and the worst result was report as below:

I eft

_eft											
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type			
	1Mbps(GFSK)- Non-hopping										
2310.00	55.03	2.97	27.80	43.80	42.00	74	-32.00	Pk	Horizontal		
2310.00	42.96	2.97	27.80	43.80	29.93	54	-24.07	AV	Horizontal		
2310.00	51.02	2.97	27.80	43.80	37.99	74	-36.01	Pk	Vertical		
2310.00	43.62	2.97	27.80	43.80	30.59	54	-23.41	AV	Vertical		
2390.00	53.34	3.14	27.21	43.80	39.89	74	-34.11	Pk	Vertical		
2390.00	40.23	3.14	27.21	43.80	26.78	54	-27.22	AV	Vertical		
2390.00	51.49	3.14	27.21	43.80	38.04	74	-35.96	Pk	Horizontal		
2390.00	41.36	3.14	27.21	43.80	27.91	54	-26.09	AV	Horizontal		
2483.50	51.51	3.58	27.70	44.00	38.79	74	-35.21	Pk	Vertical		
2483.50	41.42	3.58	27.70	44.00	28.70	54	-25.30	AV	Vertical		
2483.50	51.97	3.58	27.70	44.00	39.25	74	-34.75	Pk	Horizontal		
2483.50	43.01	3.58	27.70	44.00	30.29	54	-23.71	AV	Horizontal		
				1Mbps (GF	SK)- hoppin	ıg					
2310.00	53.76	2.97	27.80	43.80	40.73	74.00	-33.27	Pk	Vertical		
2310.00	43.36	2.97	27.80	43.80	30.33	54.00	-23.67	AV	Vertical		
2310.00	52.69	2.97	27.80	43.80	39.66	74.00	-34.34	Pk	Horizontal		
2310.00	42.58	2.97	27.80	43.80	29.55	54.00	-24.45	AV	Horizontal		
2390.00	54.44	3.14	27.21	43.80	40.99	74.00	-33.01	Pk	Vertical		
2390.00	44.35	3.14	27.21	43.80	30.90	54.00	-23.10	AV	Vertical		
2390.00	52.32	3.14	27.21	43.80	38.87	74.00	-35.13	Pk	Horizontal		
2390.00	40.90	3.14	27.21	43.80	27.45	54.00	-26.55	AV	Horizontal		
2483.50	51.54	3.58	27.70	44.00	38.82	74.00	-35.18	Pk	Vertical		
2483.50	40.71	3.58	27.70	44.00	27.99	54.00	-26.01	AV	Vertical		
2483.50	52.09	3.58	27.70	44.00	39.37	74.00	-34.63	Pk	Horizontal		
2483.50	43.20	3.58	27.70	44.00	30.48	54.00	-23.52	AV	Horizontal		

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Right									
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
			11	/lbps(GFSk	()- Non-hop	pping			
2310.00	56.71	2.97	27.80	43.80	43.68	74	-30.32	Pk	Horizontal
2310.00	40.34	2.97	27.80	43.80	27.31	54	-26.69	AV	Horizontal
2310.00	53.53	2.97	27.80	43.80	40.50	74	-33.50	Pk	Vertical
2310.00	41.29	2.97	27.80	43.80	28.26	54	-25.74	AV	Vertical
2390.00	54.81	3.14	27.21	43.80	41.36	74	-32.64	Pk	Vertical
2390.00	42.28	3.14	27.21	43.80	28.83	54	-25.17	AV	Vertical
2390.00	54.02	3.14	27.21	43.80	40.57	74	-33.43	Pk	Horizontal
2390.00	42.35	3.14	27.21	43.80	28.90	54	-25.10	AV	Horizontal
2483.50	54.34	3.58	27.70	44.00	41.62	74	-32.38	Pk	Vertical
2483.50	40.64	3.58	27.70	44.00	27.92	54	-26.08	AV	Vertical
2483.50	50.49	3.58	27.70	44.00	37.77	74	-36.23	Pk	Horizontal
2483.50	43.33	3.58	27.70	44.00	30.61	54	-23.39	AV	Horizontal
				1Mbps (G	FSK)- hoppir	ng			
2310.00	55.07	2.97	27.80	43.80	42.04	74.00	-31.96	Pk	Vertical
2310.00	41.06	2.97	27.80	43.80	28.03	54.00	-25.97	AV	Vertical
2310.00	50.09	2.97	27.80	43.80	37.06	74.00	-36.94	Pk	Horizontal
2310.00	43.71	2.97	27.80	43.80	30.68	54.00	-23.32	AV	Horizontal
2390.00	50.15	3.14	27.21	43.80	36.70	74.00	-37.30	Pk	Vertical
2390.00	41.87	3.14	27.21	43.80	28.42	54.00	-25.58	AV	Vertical
2390.00	54.48	3.14	27.21	43.80	41.03	74.00	-32.97	Pk	Horizontal
2390.00	44.07	3.14	27.21	43.80	30.62	54.00	-23.38	AV	Horizontal
2483.50	52.91	3.58	27.70	44.00	40.19	74.00	-33.81	Pk	Vertical
2483.50	42.39	3.58	27.70	44.00	29.67	54.00	-24.33	AV	Vertical
2483.50	53.23	3.58	27.70	44.00	40.51	74.00	-33.49	Pk	Horizontal
2483.50	44.99	3.58	27.70	44.00	32.27	54.00	-21.73	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

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■ Spurious Emission in Restricted Band 3260MHz-18000MHz

EUT:	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/ Mode5	Test By:	Mary Hu

All the modulation modes have been tested, and the worst result was report as below:

Left

Frequency	Reading	Cable	Antenna	Preamp	Emission	Limits	Margin	Detector	
(NALL=)	Level	Loss	Factor	Factor	Level	(dD::)//ma)	_	T	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	
3260	59.06	4.04	29.57	44.70	47.97	74	-26.03	Pk	Vertical
3260	48.76	4.04	29.57	44.70	37.67	54	-16.33	AV	Vertical
3260	54.02	4.04	29.57	44.70	42.93	74	-31.07	Pk	Horizontal
3260	47.01	4.04	29.57	44.70	35.92	54	-18.08	AV	Horizontal
3332	61.88	4.26	29.87	44.40	51.61	74	-22.39	Pk	Vertical
3332	47.88	4.26	29.87	44.40	37.61	54	-16.39	AV	Vertical
3332	62.12	4.26	29.87	44.40	51.85	74	-22.15	Pk	Horizontal
3332	46.44	4.26	29.87	44.40	36.17	54	-17.83	AV	Horizontal
17797	47.16	10.99	43.95	43.50	58.60	74	-15.40	Pk	Vertical
17797	35.49	10.99	43.95	43.50	46.93	54	-7.07	AV	Vertical
17788	52.60	11.81	43.69	44.60	63.50	74	-10.50	Pk	Horizontal
17788	37.30	11.81	43.69	44.60	48.20	54	-5.80	AV	Horizontal

Right

Rigiit									
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	
3260	61.61	4.04	29.57	44.70	50.52	74	-23.48	Pk	Vertical
3260	47.35	4.04	29.57	44.70	36.26	54	-17.74	AV	Vertical
3260	56.79	4.04	29.57	44.70	45.70	74	-28.30	Pk	Horizontal
3260	47.35	4.04	29.57	44.70	36.26	54	-17.74	AV	Horizontal
3332	62.52	4.26	29.87	44.40	52.25	74	-21.75	Pk	Vertical
3332	43.96	4.26	29.87	44.40	33.69	54	-20.31	AV	Vertical
3332	63.35	4.26	29.87	44.40	53.08	74	-20.92	Pk	Horizontal
3332	43.21	4.26	29.87	44.40	32.94	54	-21.06	AV	Horizontal
17797	48.10	10.99	43.95	43.50	59.54	74	-14.46	Pk	Vertical
17797	34.27	10.99	43.95	43.50	45.71	54	-8.29	AV	Vertical
17788	56.46	11.81	43.69	44.60	67.36	74	-6.64	Pk	Horizontal
17788	36.64	11.81	43.69	44.60	47.54	54	-6.46	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

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7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and ANSI C63.10-2013

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW ≥ RBW Sweep = auto Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mary Hu

Test data reference attachment.

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7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold

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7.4.6 Test Results

EUT:	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/Mode4/Mode5	Test By:	Mary Hu

Test data reference attachment.

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7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2013

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

 $RBW \geq 1MHz \\$

 $VBW \geq RBW$

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT for DH5, DH3 and DH1 packet transmitting.

Measure the maximum time duration of one single pulse.

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7.5.6 Test Results

EUT:	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/Mode4/Mode5	Test By:	Mary Hu

Note:

A Period Time = (channel number)*0.4

DH1 Dwell time: Reading * (1600/2)*31.6/(channel number)
DH3 Dwell time: Reading * (1600/4)*31.6/(channel number)
DH5 Dwell time: Reading * (1600/6)*31.6/(channel number)

For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4×20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

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7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

 $\mathsf{VBW} \geq \mathsf{RBW}$

Sweep = auto

Detector function = peak

Trace = max hold

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7.6.6 Test Results

IF(I):	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/Mode4/Mode5	Test By:	Mary Hu

Test data reference attachment.

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7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ the 20 dB bandwidth of the emission being measured

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

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7.7.6 Test Results

I = I I I ·	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3/Mode4/Mode5	Test By:	Mary Hu

Test data reference attachment.

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7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013

7.8.2 Conformance 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)).

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

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7.8.6 Test Results

EUT:	TRUE WIRELESS EARBUDS	Model No.:	H101
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode3 /Mode4/ Mode 5	Test By:	Mary Hu

Test data reference attachment.

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7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013.

7.9.2 Conformance 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)).

7.9.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

Test data reference attachment.

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7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.10.2 Result

The EUT antenna is permanent attached Ceramic Antenna(Gain:2 dBi). It comply with the standard requirement.

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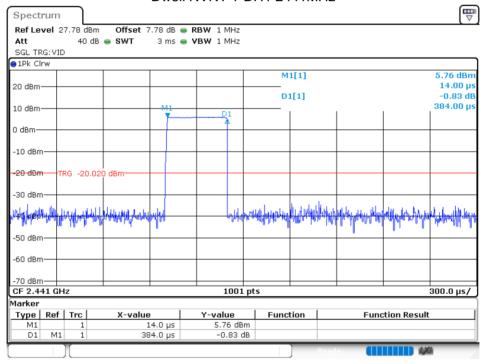
8 TEST RESULTS

Left

8.1.1 **Dwell Time**

Condition	Mode	Frequency	Pulse	Total Dwell	Period	Limit	Verdict
Condition	Mode	(MHz)	Time (ms)	Time (ms)	Time (ms)	(ms)	verdict
NVNT	1-DH1	2441	0.384	122.88	31600	400	Pass
NVNT	1-DH3	2441	1.615	258.4	31600	400	Pass
NVNT	1-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	0.394	126.08	31600	400	Pass
NVNT	2-DH3	2441	1.64	262.4	31600	400	Pass
NVNT	2-DH5	2441	2.888	308.053	31600	400	Pass
NVNT	3-DH1	2441	0.372	119.04	31600	400	Pass
NVNT	3-DH3	2441	1.62	259.2	31600	400	Pass
NVNT	3-DH5	2441	2.896	308.907	31600	400	Pass

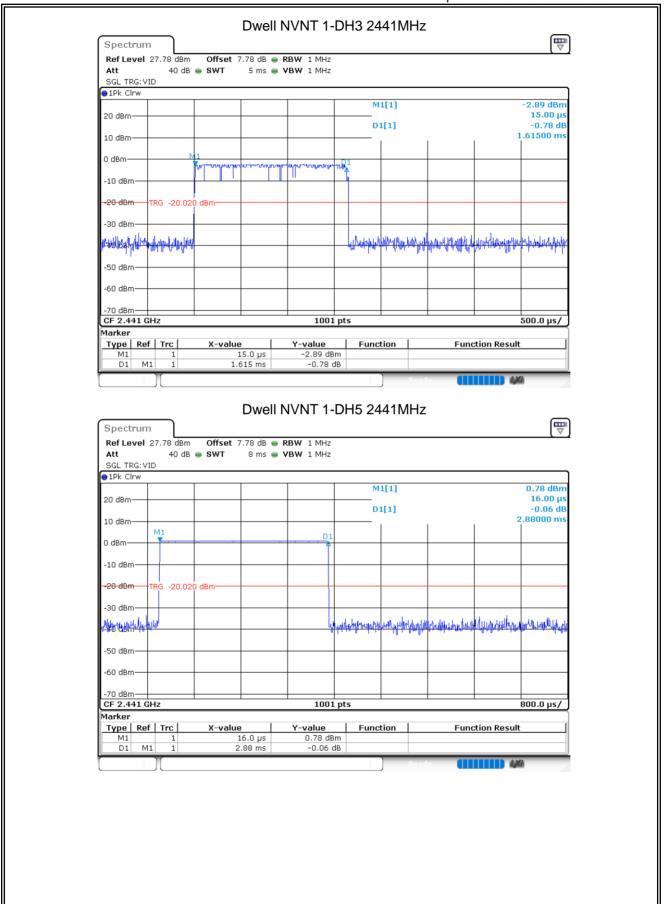
Dwell NVNT 1-DH1 2441MHz



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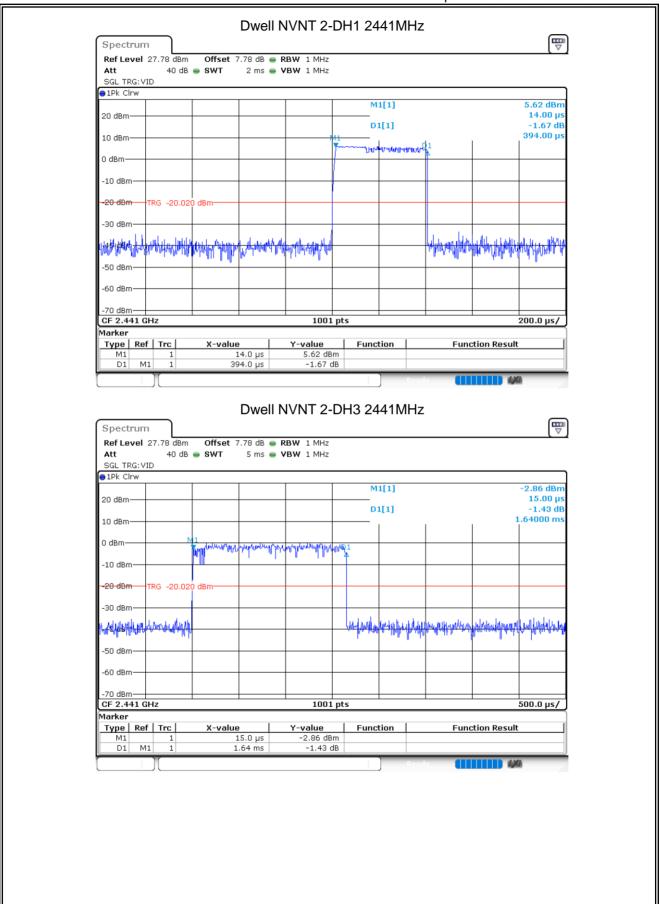




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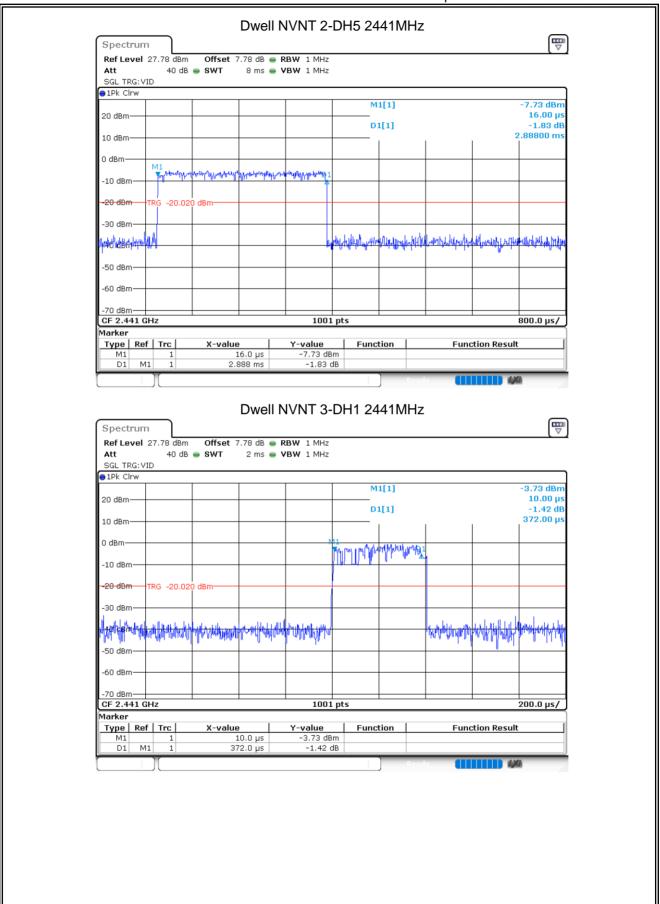




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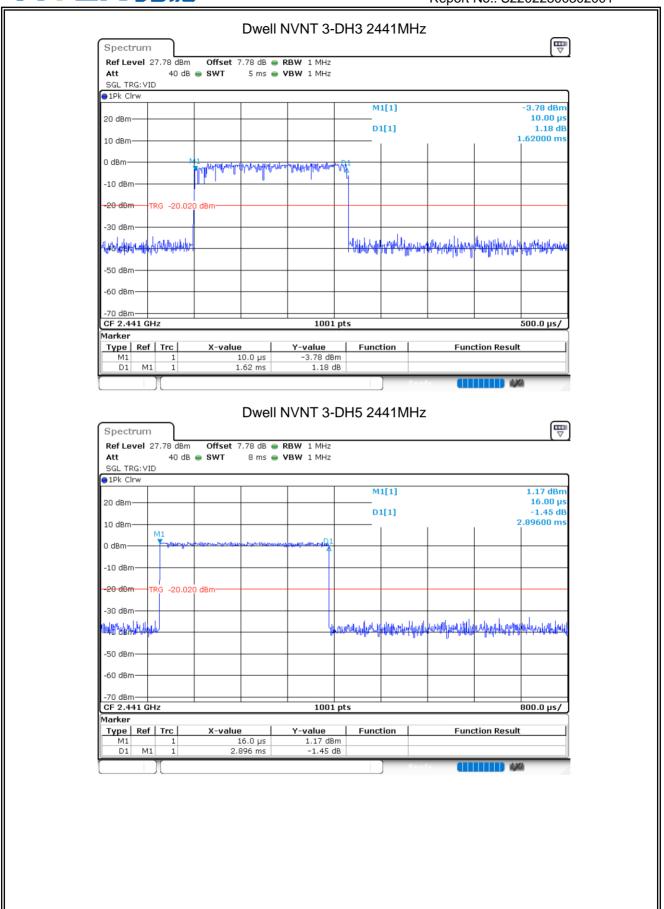




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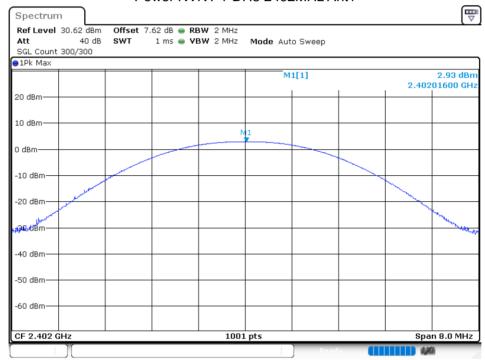




8.1.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	2.93	30	Pass
NVNT	1-DH5	2441	Ant 1	1.15	30	Pass
NVNT	1-DH5	2480	Ant 1	1.43	30	Pass
NVNT	2-DH5	2402	Ant 1	2.40	20.97	Pass
NVNT	2-DH5	2441	Ant 1	1.80	20.97	Pass
NVNT	2-DH5	2480	Ant 1	1.88	20.97	Pass
NVNT	3-DH5	2402	Ant 1	3.59	20.97	Pass
NVNT	3-DH5	2441	Ant 1	2.60	20.97	Pass
NVNT	3-DH5	2480	Ant 1	2.29	20.97	Pass

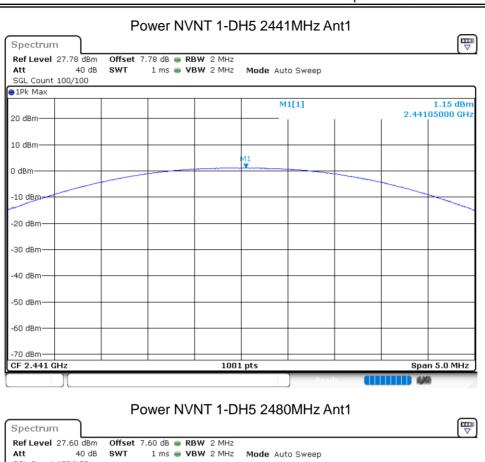
Power NVNT 1-DH5 2402MHz Ant1



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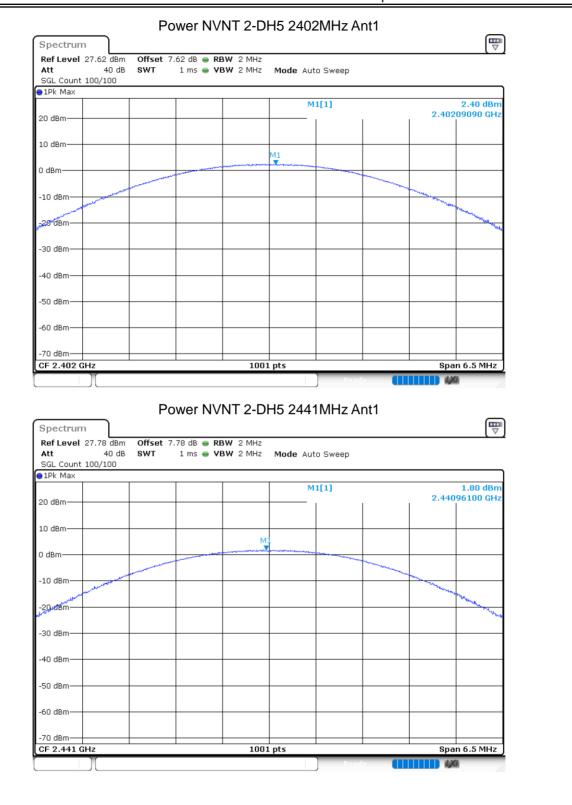




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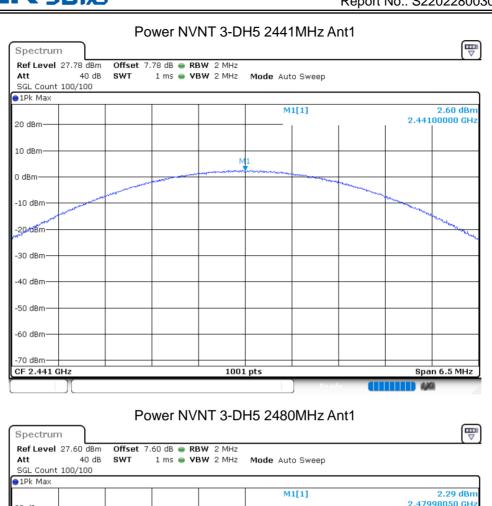


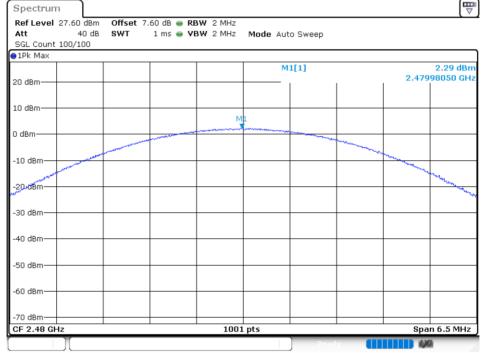


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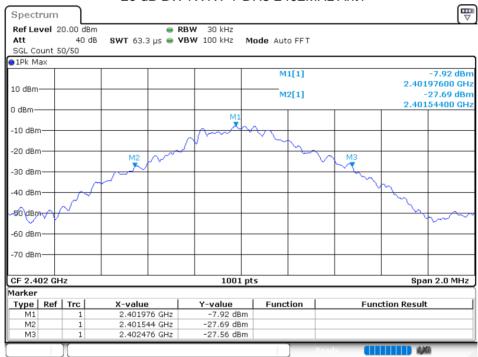




8.1.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant 1	0.932	Pass
NVNT	1-DH5	2441	Ant 1	0.946	Pass
NVNT	1-DH5	2480	Ant 1	0.93	Pass
NVNT	2-DH5	2402	Ant 1	1.238	Pass
NVNT	2-DH5	2441	Ant 1	1.242	Pass
NVNT	2-DH5	2480	Ant 1	1.276	Pass
NVNT	3-DH5	2402	Ant 1	1.326	Pass
NVNT	3-DH5	2441	Ant 1	1.29	Pass
NVNT	3-DH5	2480	Ant 1	1.292	Pass

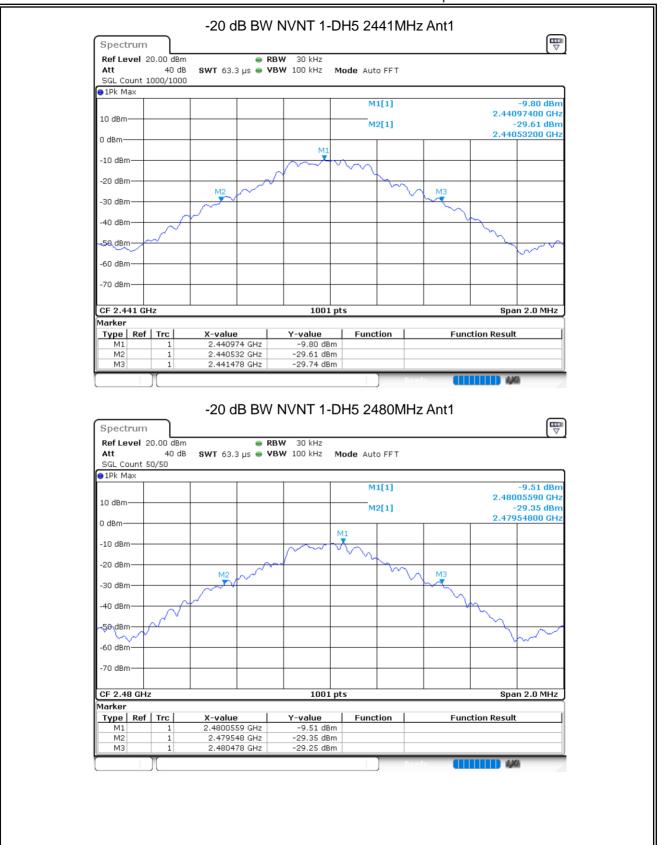
-20 dB BW NVNT 1-DH5 2402MHz Ant1



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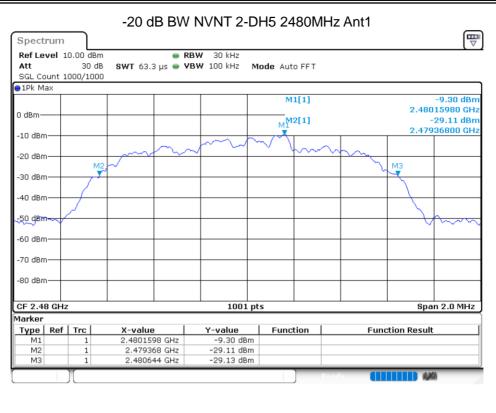




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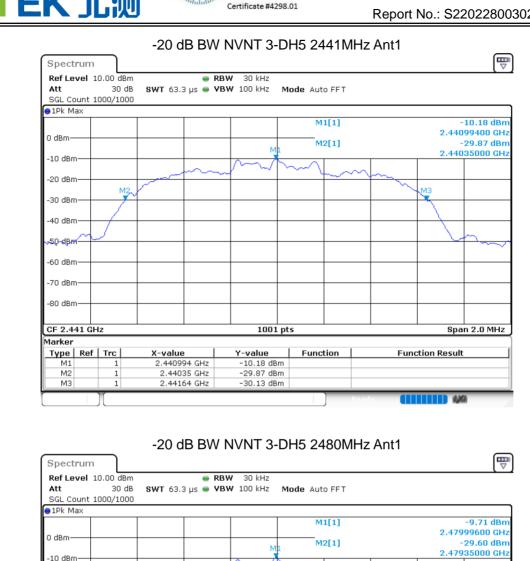


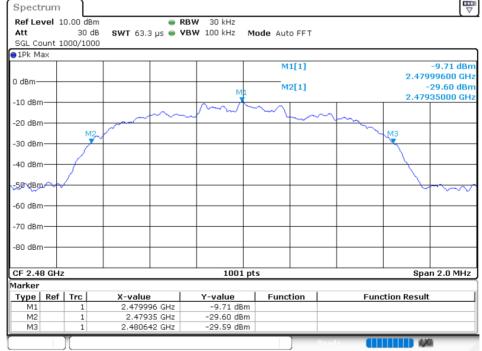
-20 dB BW NVNT 3-DH5 2402MHz Ant1 Spectrum Ref Level 10.00 dBm ■ RBW 30 kHz 30 dB SWT 63.3 µs • VBW 100 kHz Mode Auto FFT Att SGL Count 1000/1000 ●1Pk Max M1[1] -9.18 dBm 2.40183220 GHz 0 dBm-M2[1] -29.15 dBm 2.40133600 GHz -10 dBm -30 dBm -40 dBm -50 dem--60 dBm -70 dBm -80 dBm-CF 2.402 GHz 1001 pts Span 2.0 MHz Marker Function **Function Result** Type | Ref | Trc | Y-value X-value 2.4018322 GHz -9.18 dBm M1 М2 2.401336 GHz -29.15 dBm МЗ 2.402662 GHz -29.19 dBm

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8.1.4 Carrier Frequencies Separation

Condition	Condition Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
Condition	wode	(MHz)	(MHz)	(MHz)	(MHz)	verdict
NVNT	1-DH5	2402.053	2403.055	1.002	0.932	Pass
NVNT	1-DH5	2441.056	2442.055	0.999	0.946	Pass
NVNT	1-DH5	2479.053	2480.055	1.002	0.93	Pass
NVNT	2-DH5	2402.155	2403.154	0.999	0.825	Pass
NVNT	2-DH5	2441.155	2442.154	0.999	0.828	Pass
NVNT	2-DH5	2479.161	2480.154	0.993	0.851	Pass
NVNT	3-DH5	2401.831	2402.83	0.999	0.884	Pass
NVNT	3-DH5	2440.993	2441.995	1.002	0.86	Pass
NVNT	3-DH5	2478.993	2479.995	1.002	0.861	Pass

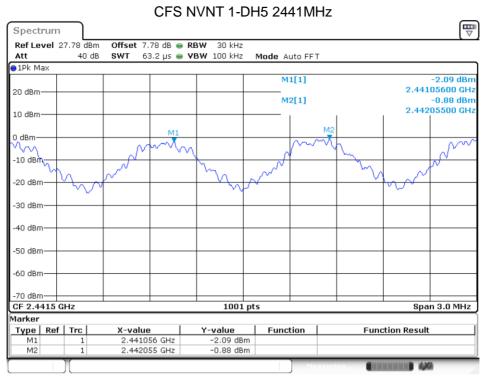
CFS NVNT 1-DH5 2402MHz



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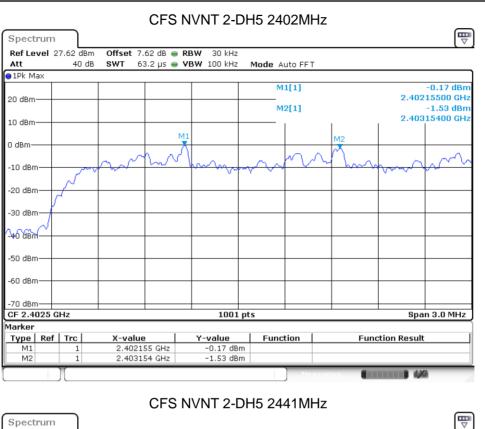


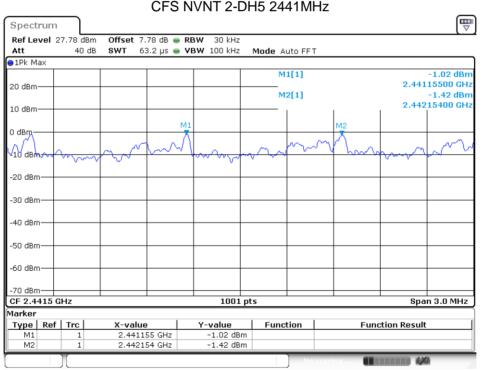
CFS NVNT 1-DH5 2480MHz Spectrum Ref Level 27.60 dBm Offset 7.60 dB • RBW 30 kHz 63.2 μs 🅌 **VBW** 100 kHz Att 40 dB ●1Pk Max M1[1] -1.66 dBn 2.47905300 GHz 20 dBm M2[1] -1.67 dBm 2.48005500 GHz 10 dBm 0 dBm -10 dBm_ -20 dBm -40 dBm -60 dBm CF 2.4795 GHz 1001 pts Span 3.0 MHz Marker Type | Ref | Trc Function **Function Result** X-value Y-value 2.479053 GHz 2.480055 GHz M1 M2 -1.66 dBm -1.67 dBm

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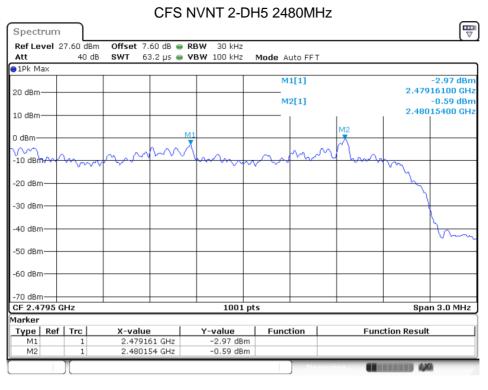




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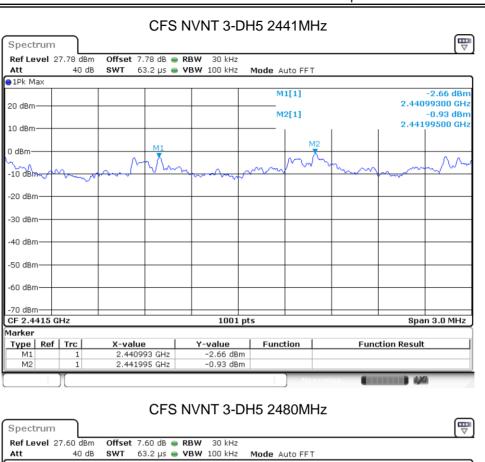


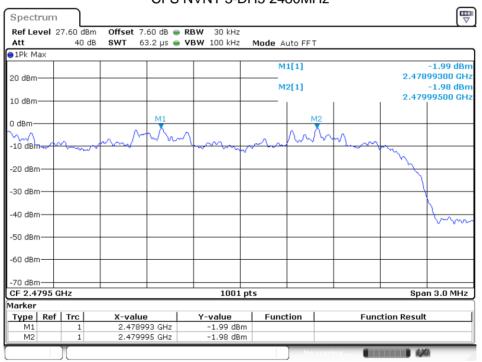
CFS NVNT 3-DH5 2402MHz Spectrum Ref Level 27.62 dBm Offset 7.62 dB • RBW 30 kHz 63.2 μs 🅌 **VBW** 100 kHz Att 40 dB SWT ●1Pk Max M1[1] -1.64 dBn 2.40183100 GHz 20 dBm M2[1] -1.93 dBm 2.40283000 GHz 10 dBm 0 dBm -10 dBm--20 dBm 48 JBM -60 dBm CF 2.4025 GHz 1001 pts Span 3.0 MHz Marker Type | Ref | Trc Function **Function Result** X-value Y-value 2.401831 GHz -1.64 dBm -1.93 dBm M1 M2 2.40283 GHz

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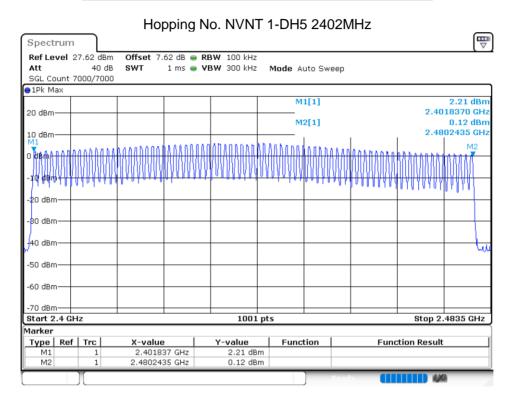
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Number of Hopping Channel 8.1.5

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	15	Pass



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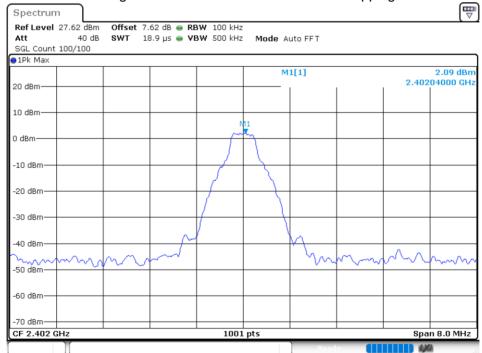




8.1.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	No-Hopping	-43.57	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-41.89	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-43.73	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-43.25	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-43.09	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-41.89	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-42.97	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-43.62	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-44.01	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-42.12	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-42.24	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-42.79	-20	Pass

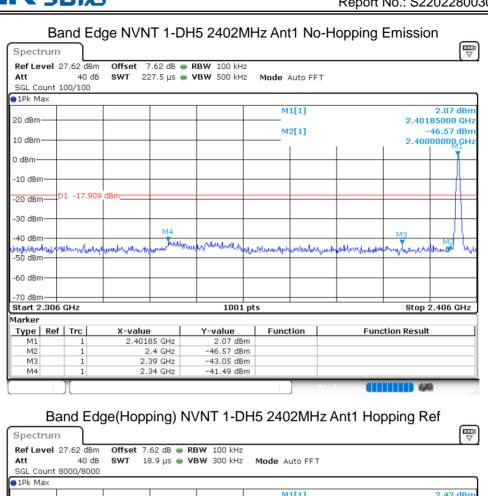
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



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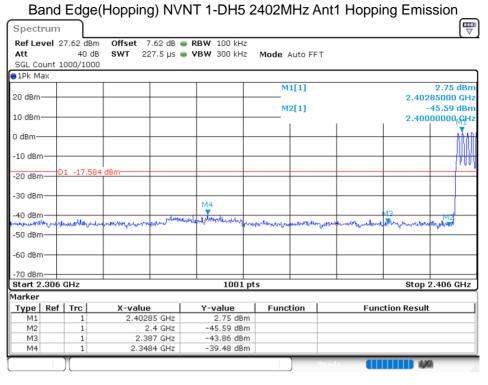




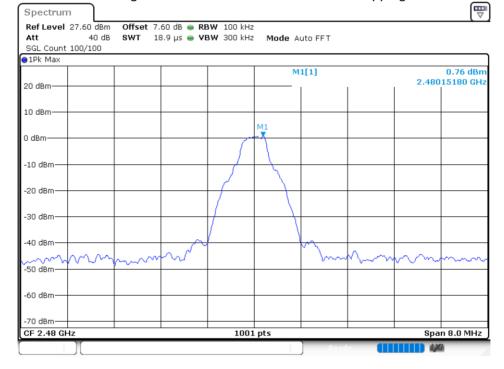
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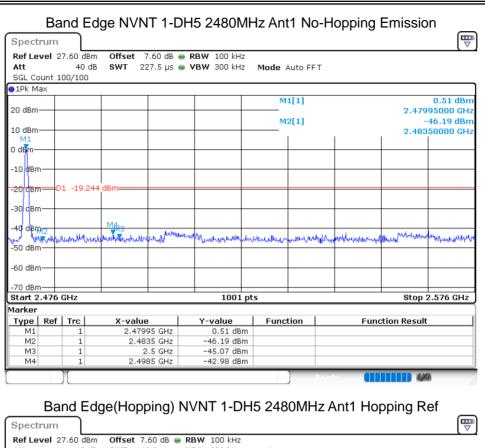
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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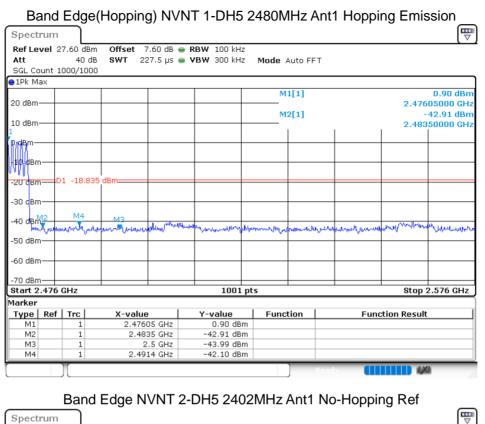


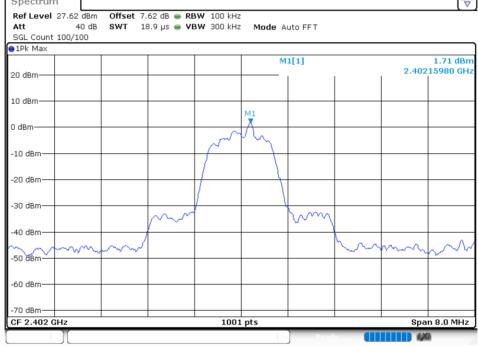


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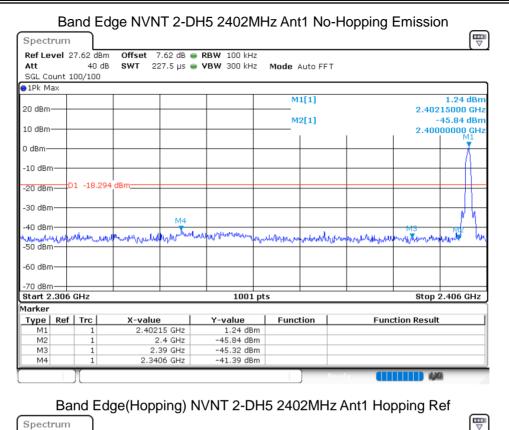




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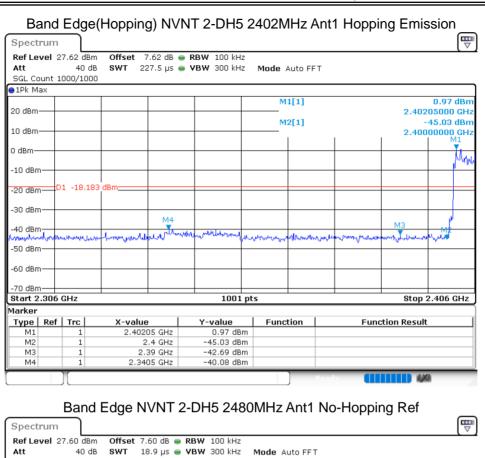


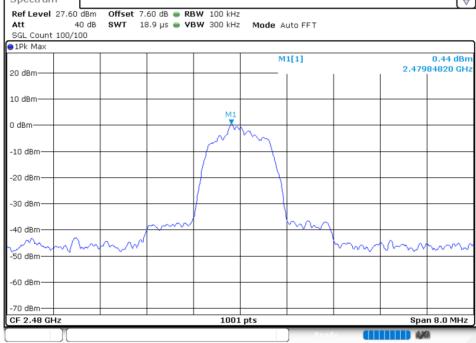


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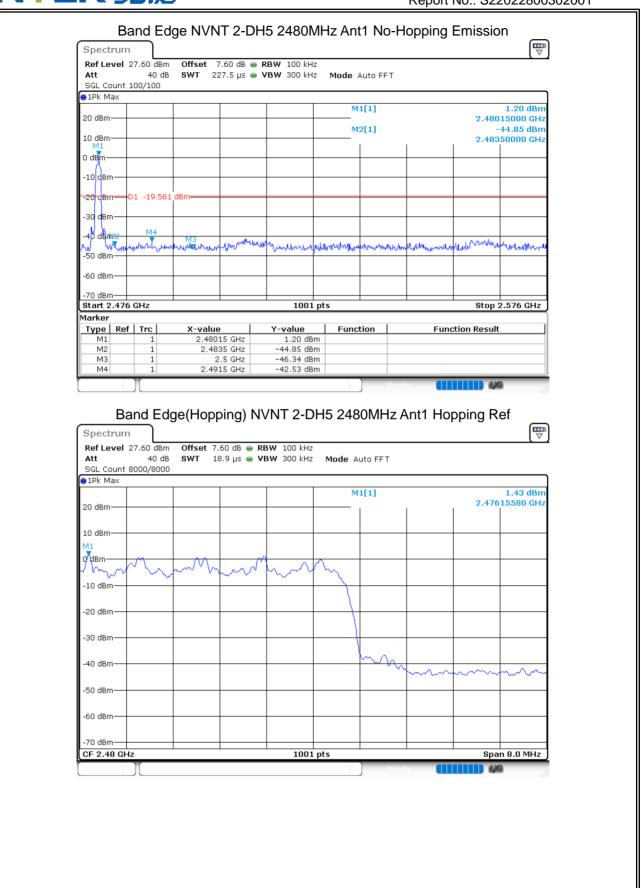




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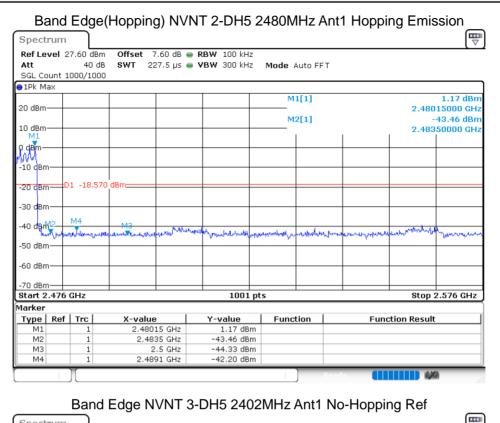


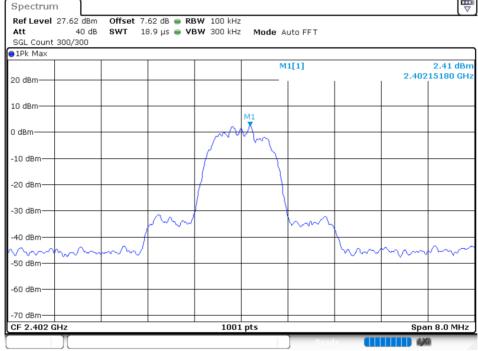


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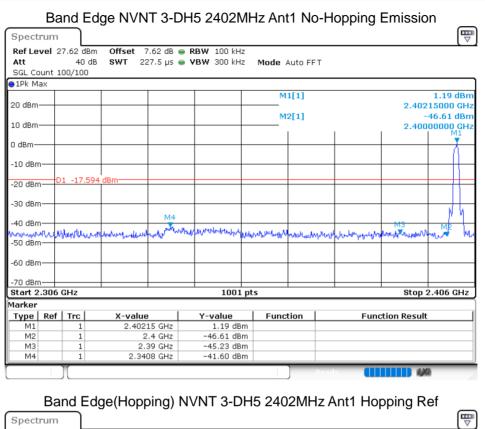




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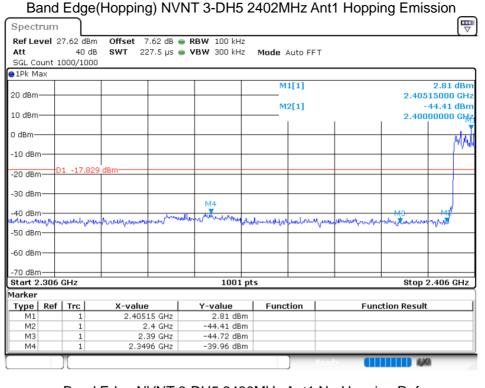




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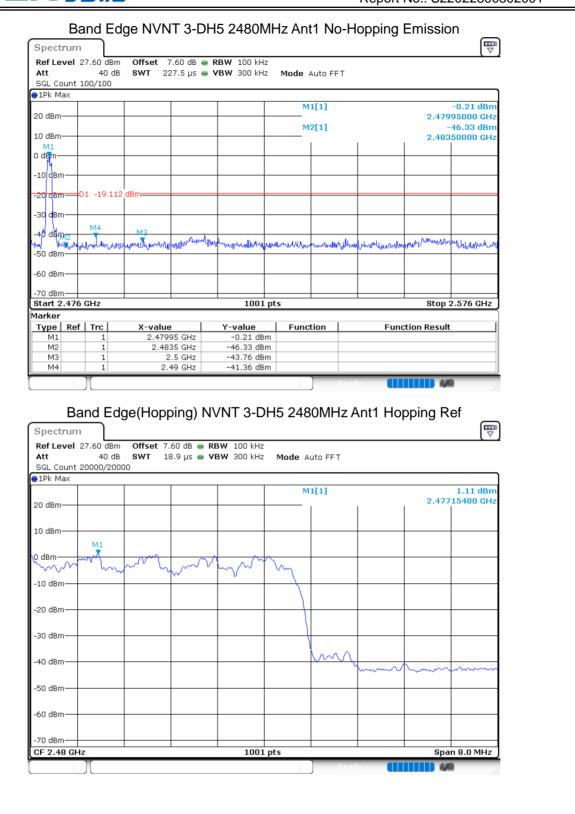
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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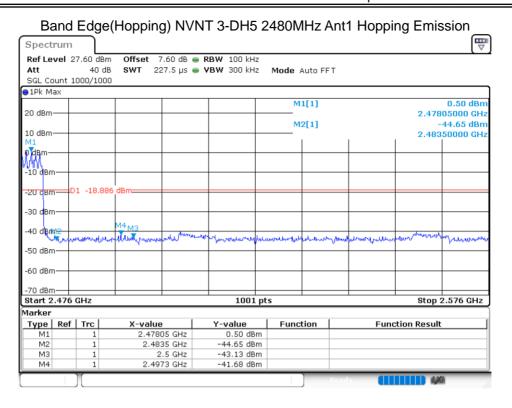




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8.1.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	-46.61	-20	Pass
NVNT	1-DH5	2441	Ant 1	-47.67	-20	Pass
NVNT	1-DH5	2480	Ant 1	-49.16	-20	Pass
NVNT	2-DH5	2402	Ant 1	-48.13	-20	Pass
NVNT	2-DH5	2441	Ant 1	-55.22	-20	Pass
NVNT	2-DH5	2480	Ant 1	-49.59	-20	Pass
NVNT	3-DH5	2402	Ant 1	-46.72	-20	Pass
NVNT	3-DH5	2441	Ant 1	-47.81	-20	Pass
NVNT	3-DH5	2480	Ant 1	-48.48	-20	Pass

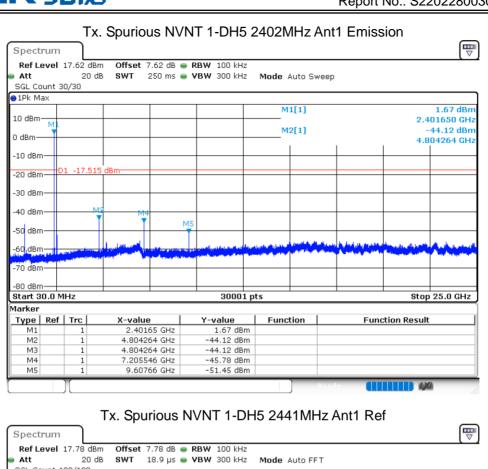
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



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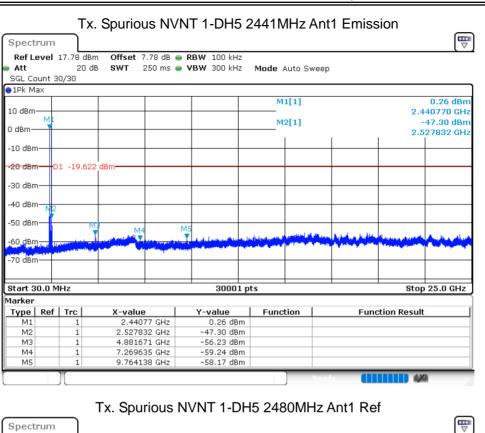


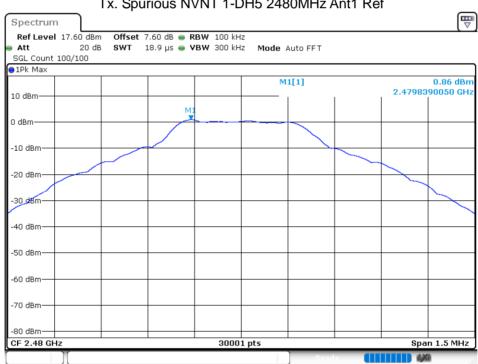


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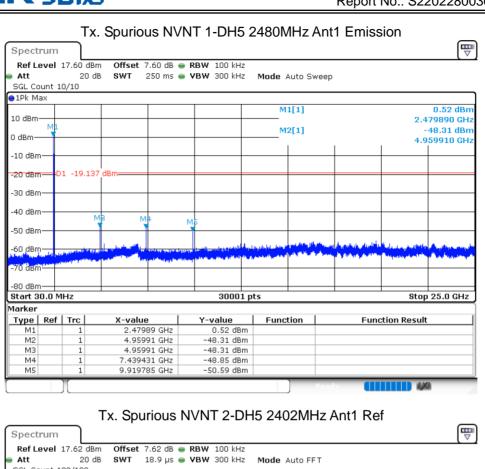


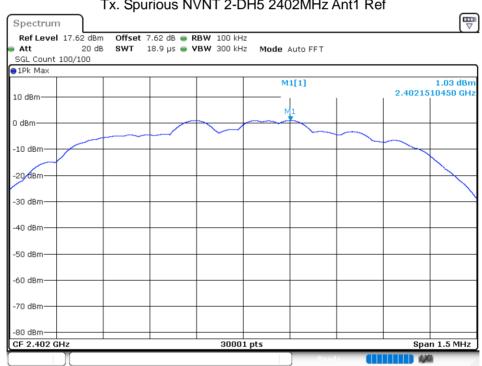


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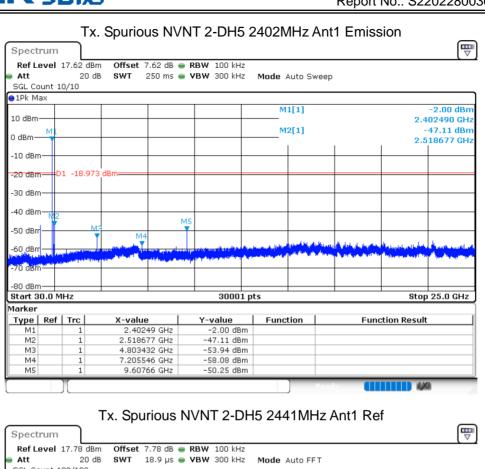


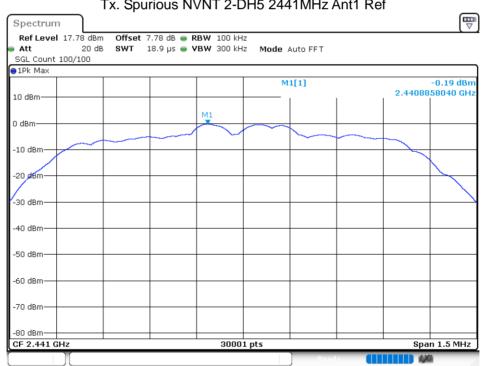


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