

RADIO TEST REPORT FCC ID: HBOSB2225

 Product:
 2.0 LED Soundbar

 Trade Mark:
 onn.

 Model No.:
 100075108

 Family Model:
 N/A

 Report No.:
 S21112400602001

 Issue Date:
 Dec 08. 2021

Prepared for

SHENZHEN FENDA TECHNOLOGY CO., LTD. Fenda Hi-Tech Park,Zhoushi Road,Shiyan Town,Baoan District, Shenzhen City,Guangdong,China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	SHENZHEN FENDA TECHNOLOGY CO., LTD.
Address	Fenda Hi-Tech Park,Zhoushi Road,Shiyan Town,Baoan District, Shenzhen City,Guangdong,China
Manufacturer's Name:	SHENZHEN FENDA TECHNOLOGY CO., LTD.
Address	Fenda Hi-Tech Park,Zhoushi Road,Shiyan Town,Baoan District, Shenzhen City,Guangdong,China
Product description	
Product name:	2.0 LED Soundbar
Model and/or type reference:	100075108
Family Model:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS STANDARD/ TEST PROCEDURE TEST RESULT FCC 47 CFR Part 2, Subpart J Complied FCC 47 CFR Part 15, Subpart C ANSI C63.10-2013 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.

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

Date of Test

Testing Engineer

(Mary Hu)

Authorized Signatory

Nov 24. 2021~ Dec 08, 2021

HU

(Alex Li)



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:

 "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.



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	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	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).
	: 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 $y\pm U$, 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

NTEK 北测 Certificate #4298.01 **GENERAL DESCRIPTION OF EUT** 4

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Product Feature and Specification		
Equipment	2.0 LED Soundbar	
Trade Mark	onn.	
FCC ID	HBOSB2225	
Model No.	100075108	
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	PCB Antenna	
Antenna Gain	1.5 dBi	
Power supply	Input:100-240V 50/60Hz 0.3A	
Adapter	N/A	
Battery	N/A	
HW Version	N/A	
SW Version	N/A	

Note 1: 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.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode, the power level is the software default value.



Certificate #4298.01 Revision History			
Report No.	Version	Description	Issued Date
S21112400602001	Rev.01	Initial issue of report	Dec 08, 2021
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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) 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	normal link mode	

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

For Radiated Test Cases		
Final Test Mode	Description	
Mode 1 normal link mode		
Mode 2	Mode 2 CH00(2402MHz)	
Mode 3 CH39(2441MHz)		
Mode 4 CH78(2480MHz)		

Note: For radiated test cases, the worst mode data rate 3Mbps 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			
CH00(2402MHz)			
CH39(2441MHz)			
CH78(2480MHz)			
Hopping mode			

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

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6 SETUP OF EQUIPMENT 6.1 BLOCK DIAGRAM CONFIGU	IRATION OF TEST SYSTEM	I
For AC Conducted Emission Mode	C-1 AE-1 Adapter	AC PLUG
For Radiated Test Cases		
EUT		
For Conducted Test Cases		
Measurement Instrument	JT	
Note: 1. The temporary antenna co and this temporary antenna connec	nnector is soldered on the Po ctor is listed in the equipmen	CB board in order to perform conducted tests t list.



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.

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	0.8m
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 [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

uuuuu	Ina Conducted I	estequipment					
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	2021.04.27	2022.04.26	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.04.27	2022.04.26	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	2021.07.01	2022.06.30	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	2021.07.01	2022.06.30	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	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	Filter	TRILTHIC	2400MHz	29	2021.07.01	2022.06.30	1 year
16	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

AC Co	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	2020.05.11	2023.05.10	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.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

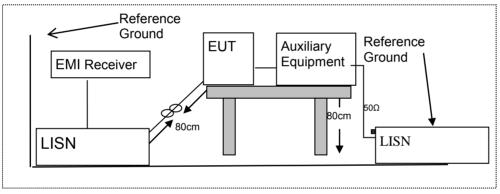
7.1.2 Conformance Limit

	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.

7.1.3 Test Configuration



7.1.4 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.
- 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.
- 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.

7.1.5 Test Results

Pass



7.1.6 Test Results

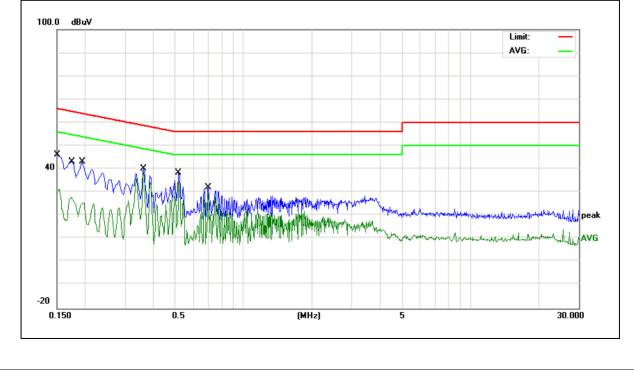
EUT:	2.0 LED Soundbar	Model Name :	100075108
Temperature:	21.6℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	3Mbps 8-DPSK CH39

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1524	35.93	9.72	45.65	65.86	-20.21	AVG
0.1524	21.84	9.72	31.56	55.86	-24.30	QP
0.1739	33.50	9.68	43.18	64.77	-21.59	AVG
0.1739	18.11	9.68	27.79	54.77	-26.98	QP
0.1940	33.56	9.64	43.20	63.86	-20.66	AVG
0.1940	15.70	9.64	25.34	53.86	-28.52	QP
0.3619	30.53	9.64	40.17	58.68	-18.51	QP
0.3619	28.97	9.64	38.61	48.68	-10.07	AVG
0.5180	28.80	9.65	38.45	56.00	-17.55	QP
0.5180	24.85	9.65	34.50	46.00	-11.50	AVG
0.6979	22.26	9.74	32.00	56.00	-24.00	AVG
0.6979	19.70	9.74	29.44	46.00	-16.56	QP

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





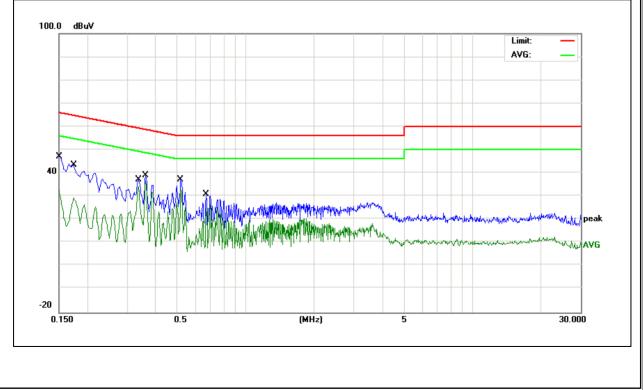
EUT:	2.0 LED Soundbar	Model Name :	100075108
Temperature:	21.6 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	3Mbps 8-DPSK CH39

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorly
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1524	37.17	9.63	46.80	65.86	-19.06	QP
0.1524	20.87	9.63	30.50	55.86	-25.36	AVG
0.1740	33.94	9.63	43.57	64.76	-21.19	QP
0.1740	19.61	9.63	29.24	54.76	-25.52	AVG
0.3379	27.32	9.68	37.00	59.25	-22.25	QP
0.3379	24.47	9.68	34.15	49.25	-15.10	AVG
0.3620	29.18	9.69	38.87	58.68	-19.81	AVG
0.3620	26.93	9.69	36.62	48.68	-12.06	QP
0.5180	27.52	9.73	37.25	56.00	-18.75	QP
0.5180	23.01	9.73	32.74	46.00	-13.26	AVG
0.6700	21.17	9.65	30.82	56.00	-25.18	AVG
0.6700	15.09	9.65	24.74	46.00	-21.26	QP

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





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

Recording to FOC Part 15.205, Restricted bands				
MHz	MHz	MHz	GHz	
0.090-0.110	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.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
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)

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

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

Measurement was performed at an antenna to the closed point of EUT distance of meters.
 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);

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

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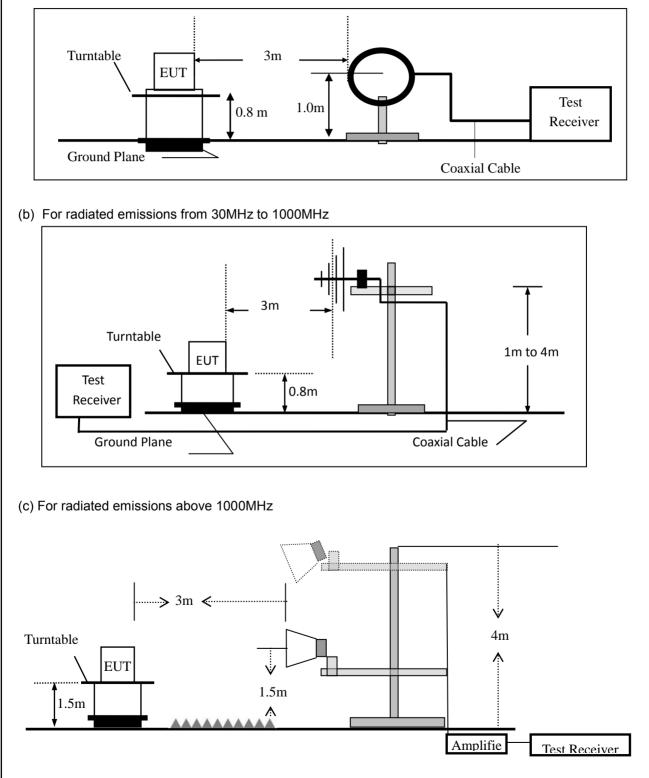
7.2.3 Measuring Instruments

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

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7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





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:

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 / 1 MHz 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



During the radiated emission to	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						
Ab	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

EUT:	2.0 LED Soundbar	Model No.:	100075108
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Freq.	Ant.Pol.	Emission L	evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(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.



Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below: EUT: 2.0 LED Soundbar Model Name : 100075108 Temperature: **25.3℃** Relative Humidity: 51% Test Mode: Pressure: 1010hPa 3Mbps 8-DPSK CH39 AC 120V/60Hz Test Voltage : Emission Meter Frequency Factor Limits Margin Polar Reading Level Remark (H/V) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) V 40.5591 12.99 18.53 31.52 40.00 -8.48 QP 98,4866 16.32 27.82 43.50 -15.68 QP V 11.50 V QP 132.6850 10.67 18.18 28.85 43.50 -14.65 QP V 327.8873 8.65 21.70 30.35 46.00 -15.65 7.69 46.00 QP V 658.8361 29.18 36.87 -9.13 V 768.7481 8.18 30.62 46.00 -7.20 QP 38.80 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m Limit: Margin: X 32 -8 30.000 40 50 60 70 80 (MHz) 300 400 500 600 700 1000.000



Polar (H/V) Frequency Meter Reading (dBuV) Factor Emission Level Limits H 102.0014 9.85 16.65 26.50 43.50 H 137.4202 11.31 18.62 29.93 43.50 H 173.2051 12.77 16.56 29.33 43.50 H 656.5299 8.23 29.13 37.36 46.00 H 771.4486 8.74 30.65 39.39 46.00 H 900.1473 7.32 32.60 39.92 46.00 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m	Margin (dB) -17.00 -13.57 -14.17 -8.64 -6.61 -6.08	Remark QP QP QP QP QP QP
H 102.0014 9.85 16.65 26.50 43.50 H 137.4202 11.31 18.62 29.93 43.50 H 173.2051 12.77 16.56 29.33 43.50 H 656.5299 8.23 29.13 37.36 46.00 H 771.4486 8.74 30.65 39.39 46.00 H 900.1473 7.32 32.60 39.92 46.00 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 50.00	-17.00 -13.57 -14.17 -8.64 -6.61 -6.08	QP QP QP QP QP
H 102.0014 9.85 16.65 26.50 43.50 H 137.4202 11.31 18.62 29.93 43.50 H 173.2051 12.77 16.56 29.33 43.50 H 656.5299 8.23 29.13 37.36 46.00 H 771.4486 8.74 30.65 39.39 46.00 H 900.1473 7.32 32.60 39.92 46.00 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit	-17.00 -13.57 -14.17 -8.64 -6.61 -6.08	QP QP QP QP
H 137.4202 11.31 18.62 29.93 43.50 H 173.2051 12.77 16.56 29.33 43.50 H 656.5299 8.23 29.13 37.36 46.00 H 771.4486 8.74 30.65 39.39 46.00 H 900.1473 7.32 32.60 39.92 46.00 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit	-13.57 -14.17 -8.64 -6.61 -6.08	QP QP QP QP
H 173.2051 12.77 16.56 29.33 43.50 H 656.5299 8.23 29.13 37.36 46.00 H 771.4486 8.74 30.65 39.39 46.00 H 900.1473 7.32 32.60 39.92 46.00 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit	-14.17 -8.64 -6.61 -6.08	QP QP QP
H 771.4486 8.74 30.65 39.39 46.00 H 900.1473 7.32 32.60 39.92 46.00 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit	-6.61 -6.08	QP
H 900.1473 7.32 32.60 39.92 46.00 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit	-6.08	
Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit	Limit:	QP
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit		
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	5	6 ****
	und marine herry	value -
32 How have been all and the second		
The work where a set was a set of the set of		
-8		
30.000 40 50 60 70 80 (MHz) 300 400 500	600 700	1000.000



Spurious Emission Above 1GHz (1GHz to 25GHz)											
EUT: 2.0 LED Soundbar Model No.: 100075108											
Temperature	: 20 °C	2		Relativ	ve Humidity	:	48%				
Test Mode:	Mod	e2/Mode	3/Mode4	Test B	-		Mary I	Hu			
All the modulation modes have been tested, and the worst result was report as below:											
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Li	mits	Margin	Rema	rk	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	µV/m)	(dB)			
		L	ow Channe	I (2402 M⊦	lz)(8-DPSK	()Ab	ove 1G	i			
4804.9016	64.97	5.21	35.59	44.30	61.47	74	4.00	-12.53	Pk		Vertical
4804.9016	43.97	5.21	35.59	44.30	40.47	54	4.00	-13.53	AV		Vertical
7206.9396	64.15	6.48	36.27	44.60	62.30	74	4.00	-11.70	Pk		Vertical
7206.9396	43.49	6.48	36.27	44.60	41.64	54	4.00	-12.36	AV		Vertical
4804.8831	64.57	5.21	35.55	44.30	61.03	74	4.00	-12.97	Pk	H	lorizontal
4804.8831	40.87	5.21	35.55	44.30	37.33	54	4.00	-16.67	AV	H	lorizontal
7206.036	62.73	6.48	36.27	44.52	60.96	74	4.00	-13.04	Pk	H	lorizontal
7206.036	41.00	6.48	36.27	44.52	39.23	54	4.00	-14.77	AV	H	lorizontal
Mid Channel (2441 MHz)(8-DPSK)Above 1G											
4882.5866	67.34	5.21	35.66	44.20	64.01	74	4.00	-9.99	Pk		Vertical
4882.5866	43.42	5.21	35.66	44.20	40.09	54	4.00	-13.91	AV		Vertical
7323.6985	63.68	7.10	36.50	44.43	62.85	74	4.00	-11.15	Pk		Vertical
7323.6985	43.07	7.10	36.50	44.43	42.24	54	4.00	-11.76	AV		Vertical
4882.2092	61.04	5.21	35.66	44.20	57.71	74	4.00	-16.29	Pk	H	lorizontal
4882.2092	41.71	5.21	35.66	44.20	38.38	54	4.00	-15.62	AV	H	lorizontal
7324.6433	62.30	7.10	36.50	44.43	61.47	74	4.00	-12.53	Pk	H	lorizontal
7324.6433	42.88	7.10	36.50	44.43	42.05		4.00	-11.95	AV	H	lorizontal
		H	igh Channe	I (2480 M⊢	lz)(8-DPSK	() Ab	ove 10	6			
4959.6966	65.17	5.21	35.52	44.21	61.69	74	4.00	-12.31	Pk		Vertical
4959.6966	43.50	5.21	35.52	44.21	40.02	54	4.00	-13.98	AV		Vertical
7439.5856	64.30	7.10	36.53	44.60	63.33	74	4.00	-10.67	Pk		Vertical
7439.5856	42.94	7.10	36.53	44.60	41.97	54	4.00	-12.03	AV		Vertical
4960.6486	64.71	5.21	35.52	44.21	61.23	74	4.00	-12.77	Pk	F	lorizontal
4960.6486	41.45	5.21	35.52	44.21	37.97	54	4.00	-16.03	AV	H	lorizontal
7440.1719	63.55	7.10	36.53	44.60	62.58	74	4.00	-11.42	Pk	H	lorizontal
7440.1719	42.61	7.10	36.53	44.60	41.64	54	4.00	-12.36	AV	H	lorizontal

Note:

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



 Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz EUT: 2.0 LED Soundbar Model No.: 100075108 										
_		Sunabar								
Temperature	: 20 ℃			Relati	ve Humidity	/:	48%			
Test Mode:	st Mode: Mode2/ Mode4 Test By: Mary Hu									
All the modu	All the modulation modes have been tested, and the worst result was report as below:									
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lir	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	uV/m)	(dB)	Туре	
				3Mbps-	Non-hopping					
2310.00	55.38	2.97	27.80	43.80	42.35		' 4	-31.65	Pk	Horizontal
2310.00	41.50	2.97	27.80	43.80	28.47	-	54	-25.53	AV	Horizontal
2310.00	50.31	2.97	27.80	43.80	37.28		74	-36.72	Pk	Vertical
2310.00	41.36	2.97	27.80	43.80	28.33	5	54	-25.67	AV	Vertical
2390.00	51.80	3.14	27.21	43.80	38.35	7	74	-35.65	Pk	Vertical
2390.00	40.46	3.14	27.21	43.80	27.01	5	54	-26.99	AV	Vertical
2390.00	54.68	3.14	27.21	43.80	41.23		74	-32.77	Pk	Horizontal
2390.00	42.36	3.14	27.21	43.80	28.91	-	54	-25.09	AV	Horizontal
2483.50	54.28	3.58	27.70	44.00	41.56		74	-32.44	Pk	Vertical
2483.50	42.67	3.58	27.70	44.00	29.95	5	54	-24.05	AV	Vertical
2483.50	54.28	3.58	27.70	44.00	41.56		74	-32.44	Pk	Horizontal
2483.50	44.60	3.58	27.70	44.00	31.88	5	54	-22.12	AV	Horizontal
				3Mbps	hopping					
2310.00	50.19	2.97	27.80	43.80	37.16		.00	-36.84	Pk	Vertical
2310.00	43.49	2.97	27.80	43.80	30.46	54	.00	-23.54	AV	Vertical
2310.00	54.96	2.97	27.80	43.80	41.93	74	.00	-32.07	Pk	Horizontal
2310.00	44.36	2.97	27.80	43.80	31.33		.00	-22.67	AV	Horizontal
2390.00	52.82	3.14	27.21	43.80	39.37		.00	-34.63	Pk	Vertical
2390.00	42.77	3.14	27.21	43.80	29.32		.00	-24.68	AV	Vertical
2390.00	50.82	3.14	27.21	43.80	37.37		.00	-36.63	Pk	Horizontal
2390.00	42.67	3.14	27.21	43.80	29.22		.00	-24.78	AV	Horizontal
2483.50	54.98	3.58	27.70	44.00	42.26	74	.00	-31.74	Pk	Vertical
2483.50	43.04	3.58	27.70	44.00	30.32	54	.00	-23.68	AV	Vertical
2483.50	51.75	3.58	27.70	44.00	39.03		.00	-34.97	Pk	Horizontal
2483.50	40.91	3.58	27.70	44.00	28.19	54	.00	-25.81	AV	Horizontal

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



EUT:	2.0 LED Soundbar				Model	100075108					
Temperature:		20 ℃			Relativ	Relative Humidity: 48%					
Test Mode:	Mode2/ Mode4			Test B	Test By: Mary Hu						
All the modu	lation	modes	s have b	een testeo	d, and the	worst resu	lt wa	s repoi	t as belo	W:	
Frequency		ading evel	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Li	mits	Margin	Detector	Comment
(MHz)	(dl	3μV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	μV/m)	(dB)	Туре	
3260	60).78	4.04	29.57	44.70	49.69		74	-24.31	Pk	Vertical
3260	45	5.08	4.04	29.57	44.70	33.99		54	-20.01	AV	Vertical
3260	57	7.20	4.04	29.57	44.70	46.11		74	-27.89	Pk	Horizonta
3260	43	3.19	4.04	29.57	44.70	32.10		54	-21.90	AV	Horizonta
3332	64	4.68	4.26	29.87	44.40	54.41		74	-19.59	Pk	Vertical
3332	44	4.33	4.26	29.87	44.40	34.06		54	-19.94	AV	Vertical
3332	64	4.43	4.26	29.87	44.40	54.16		74	-19.84	Pk	Horizonta
3332	4	5.76	4.26	29.87	44.40	35.49		54	-18.51	AV	Horizonta
17797	48	3.06	10.99	43.95	43.50	59.50		74	-14.50	Pk	Vertical
17797	36	5.09	10.99	43.95	43.50	47.53		54	-6.47	AV	Vertical
17788	54	4.63	11.81	43.69	44.60	65.53		74	-8.47	Pk	Horizonta
17788	38	3.45	11.81	43.69	44.60	49.35		54	-4.65	AV	Horizonta

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



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.

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	2.0 LED Soundbar	Model No.:	100075108
Temperature:	20 (Relative Humidity:	100075108 48% Mary Hu
Test Mode:	Mode 5(1Mbps)	Test By:	Mary Hu



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

7.4.6 Test Results

EUT:	2.0 LED Soundbar	Model No.:	100075108 48% Mary Hu
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.5 AVERAGE TIME OF OCCUPONN.Y (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.



7.5.6 Test Results

EUT:	2.0 LED Soundbar	Model No.:	100075108	
Temperature:	20 ℃	Relative Humidity:	48%	
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu	

Test data reference attachment.

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 x 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 x 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



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 \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.6.6 Test Results

EUT:	2.0 LED Soundbar	Model No.:	100075108
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



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 \geq the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	2.0 LED Soundbar	Model No.:	100075108
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



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.

7.8.6 Test Results

EUT:	2.0 LED Soundbar	Model No.:	100075108
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mary Hu



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 30MHzHz 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.



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 PCB antenna (Gain: 1.5 dBi). It comply with the standard requirement.



7.11 FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS 7.11.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly 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. (g) 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 transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmission sover the minimum number of hopping channels specified in this section. (h) 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.

7.11.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule. This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock. Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for FCC Part 15.247 rule.

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below: Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

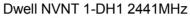
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

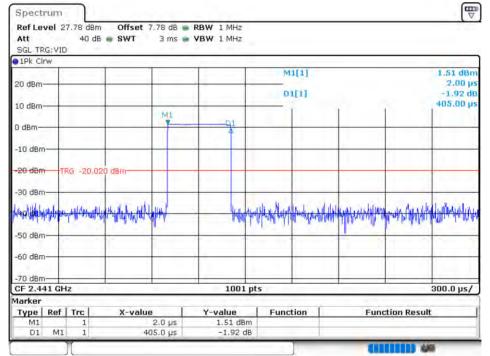


8 TEST RESULTS

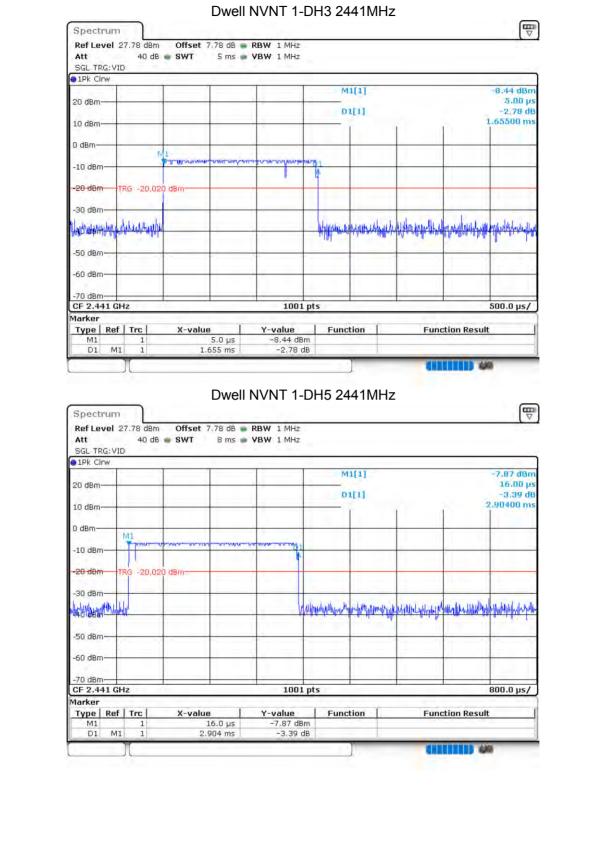
8.1 **DWELL TIME**

Mada	Frequency	Pulse	Total Dwell	Period	Limit	Verdict
Mode	(MHz)	Time (ms)	Time (ms)	Time (ms)	(ms)	
1-DH1	2441	0.405	129.6	31600	400	Pass
1-DH3	2441	1.655	264.8	31600	400	Pass
1-DH5	2441	2.904	309.76	31600	400	Pass
2-DH1	2441	0.396	126.72	31600	400	Pass
2-DH3	2441	1.635	261.6	31600	400	Pass
2-DH5	2441	2.872	306.347	31600	400	Pass
3-DH1	2441	0.39	124.8	31600	400	Pass
3-DH3	2441	1.635	261.6	31600	400	Pass
3-DH5	2441	2.888	308.053	31600	400	Pass
	1-DH3 1-DH5 2-DH1 2-DH3 2-DH5 3-DH1 3-DH3	Mode (MHz) 1-DH1 2441 1-DH3 2441 1-DH5 2441 2-DH1 2441 2-DH3 2441 2-DH5 2441 3-DH1 2441 3-DH3 2441	Mode(MHz)Time (ms)1-DH124410.4051-DH324411.6551-DH524412.9042-DH124410.3962-DH324411.6352-DH524412.8723-DH124410.393-DH324411.635	Mode(MHz)Time (ms)Time (ms)1-DH124410.405129.61-DH324411.655264.81-DH524412.904309.762-DH124410.396126.722-DH324411.635261.62-DH524412.872306.3473-DH124410.39124.83-DH324411.635261.6	Mode(MHz)Time (ms)Time (ms)Time (ms)1-DH124410.405129.6316001-DH324411.655264.8316001-DH524412.904309.76316002-DH124410.396126.72316002-DH324411.635261.6316002-DH524410.39126.72316003-DH124410.39124.8316003-DH124410.39124.8316003-DH324411.635261.631600	Mode(MHz)Time (ms)Time (ms)Time (ms)(ms)1-DH124410.405129.6316004001-DH324411.655264.8316004001-DH524412.904309.76316004002-DH124410.396126.72316004002-DH324411.635261.6316004002-DH524412.872306.347316004003-DH124410.39124.8316004003-DH324411.635261.631600400

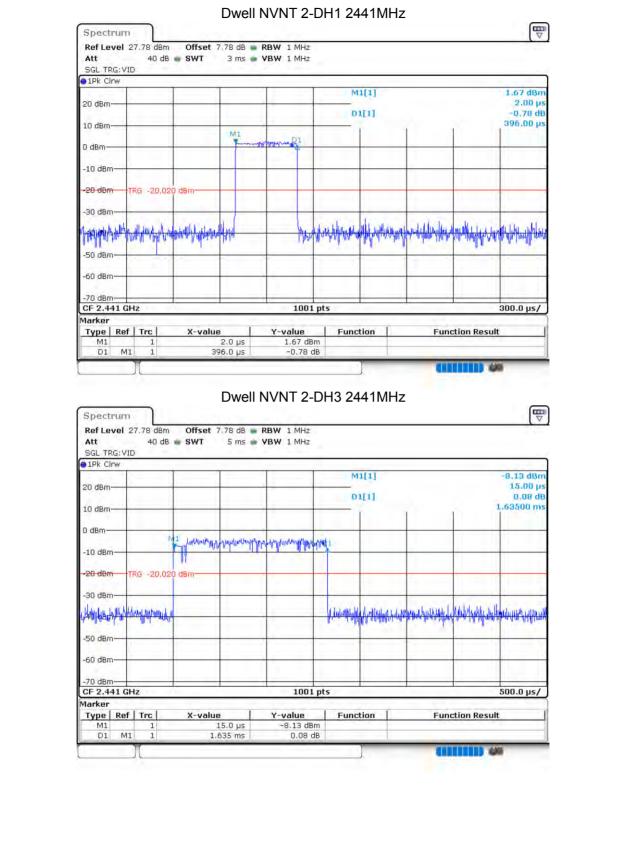














●1Pk Clrw	1 1	1					7 40 40
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10 dBm				1[1]		2	3.32 dB 2.87200 ms
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-30 dBm				1	1		
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-50 dBm				P			
-60 dBm		- 11	1.	11.11	1	11 - 11	
-70 dBm CF 2.441 GHz			1001 pts	-			800.0 µs/
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Type Ref Trc	X-value	Y-va		ction	Fund	tion Result	
M1 1			.48 dBm				
D1 M1 1	2.872	ms	3.32 dB				
D1 M1 1	2.872	? ms	3,32 dB	r	0	()))) (i	8
Spectrum	D	well NVN	T 3-DH1 24) 441MHz	-	ن ې (۱۱۱۱۱	
Spectrum Ref Level 27.78 dB Att 40 c	D m Offset 7.78		T 3-DH1 24] 441MHz	-		(U)
Spectrum Ref Level 27.78 dB	D m Offset 7.78		T 3-DH1 24 MH2 MH2		-		
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG:VID	D m Offset 7.78		T 3-DH1 24 MH2 MH2] 441MHz 11[1]			-7.35 dBm 2.00 µs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG:VID 1Pk Clrw 20 dBm	D m Offset 7.78		T 3-DH1 24 MHz MHz				-7.35 dBm 2.00 µs -0,51 dB
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG:VID • 1PK Cirw 20 dBm 10 dBm	D m Offset 7.78		T 3-DH1 24 MHz MHz	11[1]			-7.35 dBm 2.00 µs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG:VID 1Pk Clrw 20 dBm	D m Offset 7.7/ B SWT 3	B dB RBW 1 8 ms VBW 1	T 3-DH1 24	11[1]			-7.35 dBm 2.00 µs -0,51 dB
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG:VID • 1PK Cirw 20 dBm 10 dBm	D m Offset 7.77 B SWT 3	B dB RBW 1 8 ms VBW 1	T 3-DH1 24	11[1]			-7.35 dBm 2.00 µs -0,51 dB
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG:VID 1Pk Clrw 20 dBm 10 dBm 0 dBm	D m Offset 7.77 B SWT 3	B dB RBW 1 8 ms VBW 1	T 3-DH1 24	11[1]			-7.35 dBm 2.00 µs -0,51 dB
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID © IPk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	D m Offset 7.77 B SWT 3	B dB RBW 1 8 ms VBW 1	T 3-DH1 24	11[1]			-7.35 dBm 2.00 µs -0,51 dB
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	D m Offset 7.77 B SWT 3	B dB RBW 1 8 ms VBW 1	T 3-DH1 24	11[1]			-7.35 dBm 2.00 μs -0,51 dB 390.00 μs
Spectrum Ref Level 27.76 dB Att 40 c SGL TRG: VID ● IPK Cirw 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm	D m Offset 7.77 B SWT 3		T 3-DH1 24	11[1]			-7.35 dBm 2.00 µs -0,51 dB
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID IPk Cirw 20 dBm 10 dBm 10 dBm -18 dBm TRG -10,0 -20 dBm -30 dBm	D m Offset 7.79 B SWT 3 20 dBm		T 3-DH1 24	11[1]			-7.35 dBm 2.00 μs -0,51 dB 390.00 μs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID • IPk Cirw 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm	D m Offset 7.79 B SWT 3 20 dBm		T 3-DH1 24	11[1]			-7.35 dBm 2.00 μs -0,51 dB 390.00 μs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID ● 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	D m Offset 7.79 B SWT 3 20 dBm		T 3-DH1 24	11[1]			-7.35 dBm 2.00 μs -0,51 dB 390.00 μs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID • IPk Clrw 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz	D m Offset 7.79 B SWT 3 20 dBm		T 3-DH1 24	11[1]			-7.35 dBm 2.00 μs -0,51 dB 390.00 μs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID • IPk Clrw 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm	D m Offset 7.77 B SWT 3		T 3-DH1 24				-7.35 dBm 2.00 µs -0.51 dB 390.00 µs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID • IPK CIrw 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm Type Ref Type Ref M1 1	D m Offset 7.79 B SWT 3 020 dBm 020 dBm 10 10 10 10 10 10 10 10 10 10 10 10 10	M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	T 3-DH1 24	11[1]			-7.35 dBm 2.00 µs -0.51 dB 390.00 µs
Spectrum Ref Level 27.78 dB Att 40 c SGL TRG: VID IPk Clrw 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm <td>D m Offset 7.77 B SWT 3 320 dBm 120 dBm</td> <td>M1 M1 M1 M1 M1 M1 M1 M1 M1 M1</td> <td>T 3-DH1 24</td> <td></td> <td>Fun</td> <td></td> <td>-7.35 dBm 2.00 µs -0.51 dB 390.00 µs</td>	D m Offset 7.77 B SWT 3 320 dBm 120 dBm	M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	T 3-DH1 24		Fun		-7.35 dBm 2.00 µs -0.51 dB 390.00 µs



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-60 dBm									
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M1 D1 M	1 11 1		10.0 µs 635 ms	-8.19 dBr 0.12 d					
	Y					1			8
Att SGL TRG: V	27.78 dBm 40 dB	Offset 7 sWT	7.78 dB 🝙 R	NVNT 3-I RBW 1 MHz VBW 1 MHz	DH5 24	41MHz	2		
Ref Level Att	27.78 dBm 40 dB		7.78 dB 🝙 R	RBW 1 MHz			2		
Ref Level Att SGL TRG: V	27.78 dBm 40 dB		7.78 dB 🝙 R	RBW 1 MHz	MJ	41MHz	2		
Ref Level Att SGL TRG: V 1Pk Clrw	27.78 dBm 40 dB /ID	₩ SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MHz /BW 1 MHz	MJ	u[1]	<u>z</u>		1.57 dBm 8.00 µs
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Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm	27.78 dBm 40 dB /ID	₩ SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MHz /BW 1 MHz	MJ	u[1]	<u>z</u>		1.57 dBm 8.00 µs -0.05 dB
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm	27.78 dBm 40 dB /ID	SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MHz /BW 1 MHz	MJ	u[1]			1.57 dBm 8.00 µs -0.05 dB
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	27.78 dBm 40 dB /ID M1 *-etherwore +TRG -20.021	SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MH2 /BW 1 MH2	DI	u[1] [1]			1.57 dBm 8.00 µs -0.05 dB 2.88800 ms
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm	27.78 dBm 40 dB /ID M1 *-etherwore +TRG -20.021	SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MH2 /BW 1 MH2	DI	u[1] [1]			1.57 dBm 8.00 µs -0.05 dB 2.88800 ms
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	27.78 dBm 40 dB /ID M1 *-etherwore +TRG -20.021	SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MH2 /BW 1 MH2	DI	u[1] [1]			1.57 dBm 8.00 µs -0.05 dB 2.88800 ms
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm -30 dBm	27.78 dBm 40 dB /ID M1 *-etherwore +TRG -20.021	SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MH2 /BW 1 MH2	DI	u[1] [1]			1.57 dBm 8.00 µs -0.05 dB 2.88800 ms
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	27.78 dBm 40 dB /ID M1 *-etherwore +TRG -20.021	SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MH2 /BW 1 MH2	DI	u[1] [1]			1.57 dBm 8.00 µs -0.05 dB 2.88800 ms
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm 10 dBm -10 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm	27.78 dBm 40 dB /ID M1 Fsheetoorto	SWT	7.78 dB 🗰 🖡 8 ms 🗰 V	RBW 1 MH2 /BW 1 MH2	MI DI MILYydd Jary Lu	u[1] [1]		Alex Manutain	1.57 dBm 8.00 µs -0.05 dB 2.88800 ms
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.441 C Marker Type	27.78 dBm 40 dB //ID	SWT	7.78 dB F 8 ms F	2BW 1 MHz /BW 1 MHz	pts	1[1] ;[1]	irgi rijdeniderte	Alex Manutain	1.57 dBm 8.00 µs -0.05 dB 2.88800 ms
Ref Level Att SGL TRG:V 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.441 C Marker Type Re M1	27.78 dBm 40 dB //ID //ID	SWT	7.78 dB F R	RBW 1 MHz /BW 1 MHz	pts	1[1] ;[1]	Func	Ale Manutain	1.57 dBm 8.00 µs -0.05 dB 2.88800 ms



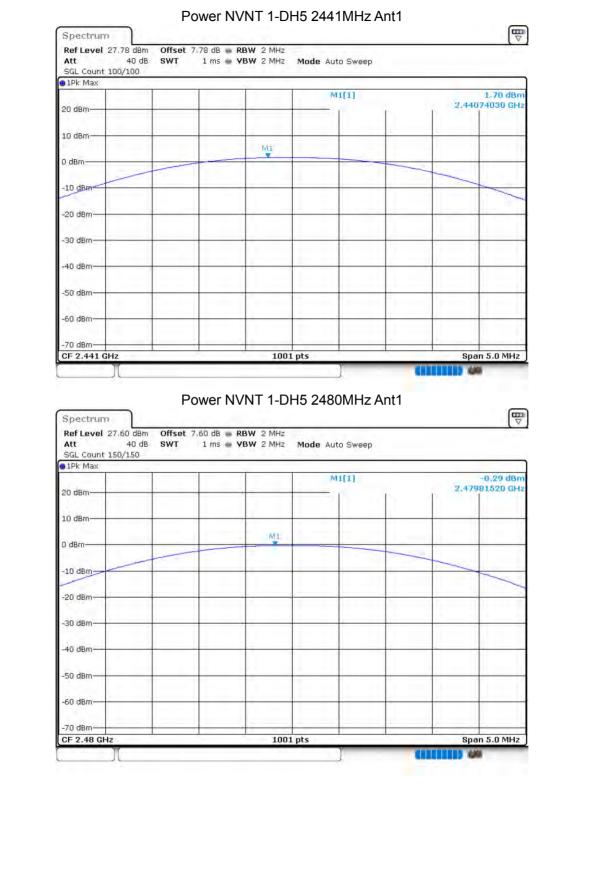
8.2 MAXIMUM CONDUCTED OUTPUT POWER

		••				
Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	0.74	30	Pass
NVNT	1-DH5	2441	Ant 1	1.70	30	Pass
NVNT	1-DH5	2480	Ant 1	-0.29	30	Pass
NVNT	2-DH5	2402	Ant 1	3.19	20.97	Pass
NVNT	2-DH5	2441	Ant 1	4.12	20.97	Pass
NVNT	2-DH5	2480	Ant 1	2.54	20.97	Pass
NVNT	3-DH5	2402	Ant 1	3.73	20.97	Pass
NVNT	3-DH5	2441	Ant 1	4.56	20.97	Pass
NVNT	3-DH5	2480	Ant 1	3.30	20.97	Pass

Power NVNT 1-DH5 2402MHz Ant1

1Pk Max			1		
			M1[1]	2.4	0.74 dBn 0181520 GH:
20 dBm-					
S. 17					
10 dBm					
0 dBm		M1.			
-10 dBm					-
-20 dBm	_				
-30 dBm					
-40 dBm			1 1 1 1 1 1 1		
io acin					
-50 dBm		-			
-60 dBm					



















8.3 OCCUPIED CHANNEL BANDWIDTH

	-				
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant 1	0.944	Pass
NVNT	1-DH5	2441	Ant 1	0.928	Pass
NVNT	1-DH5	2480	Ant 1	0.948	Pass
NVNT	2-DH5	2402	Ant 1	1.324	Pass
NVNT	2-DH5	2441	Ant 1	1.324	Pass
NVNT	2-DH5	2480	Ant 1	1.324	Pass
NVNT	3-DH5	2402	Ant 1	1.282	Pass
NVNT	3-DH5	2441	Ant 1	1.278	Pass
NVNT	3-DH5	2480	Ant 1	1.284	Pass

-20 dB BW NVNT 1-DH5 2402MHz Ant1







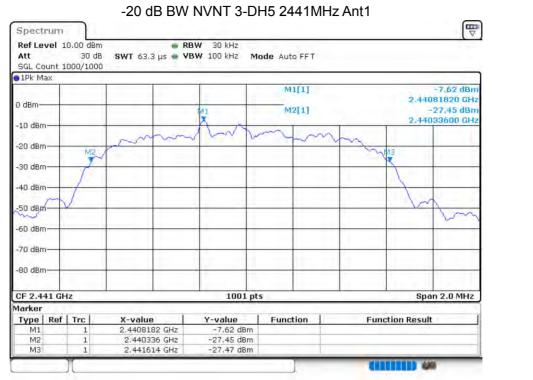


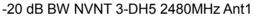


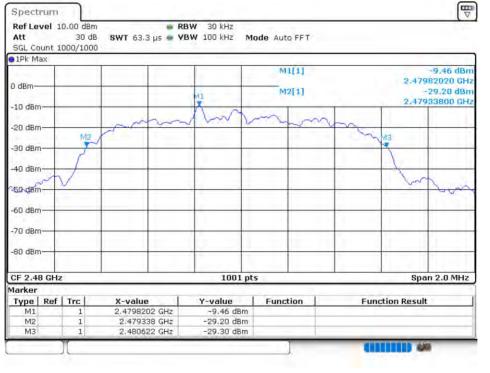










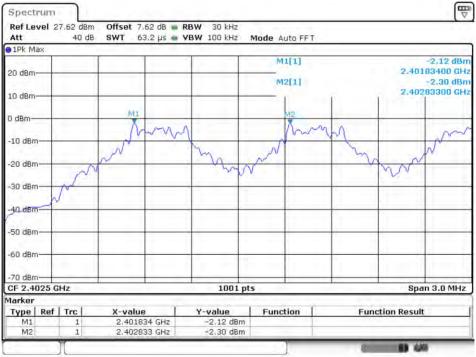




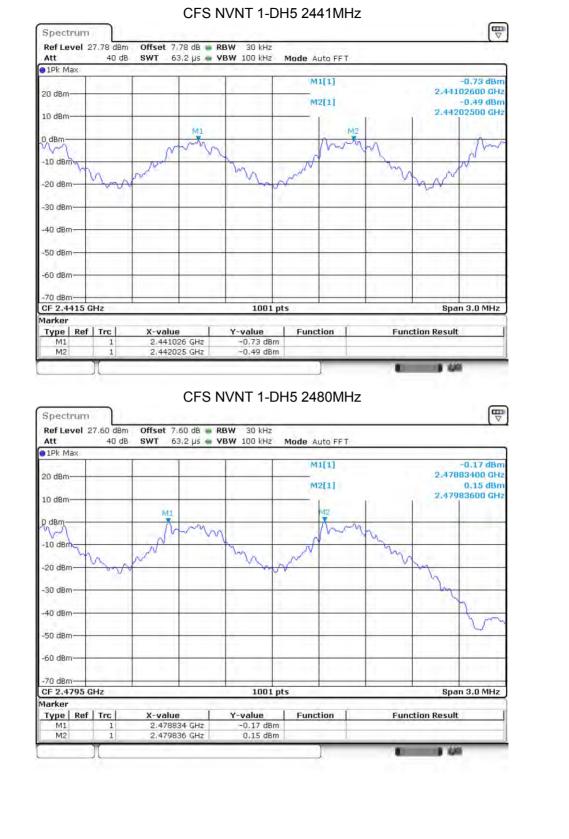
8.4 CARRIER FREQUENCIES SEPARATION

U.T CARRIER	INEQUEN	CIES DEFARATION				
Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
Condition	MOUE	(MHz)	(MHz)	(MHz)	(MHz)	veruici
NVNT	1-DH5	2401.834	2402.833	0.999	0.944	Pass
NVNT	1-DH5	2441.026	2442.025	0.999	0.928	Pass
NVNT	1-DH5	2478.834	2479.836	1.002	0.948	Pass
NVNT	2-DH5	2402.026	2403.028	1.002	0.883	Pass
NVNT	2-DH5	2441.026	2442.028	1.002	0.883	Pass
NVNT	2-DH5	2479.026	2480.025	0.999	0.883	Pass
NVNT	3-DH5	2402.023	2403.025	1.002	0.855	Pass
NVNT	3-DH5	2441.161	2442.163	1.002	0.852	Pass
NVNT	3-DH5	2479.023	2480.025	1.002	0.856	Pass

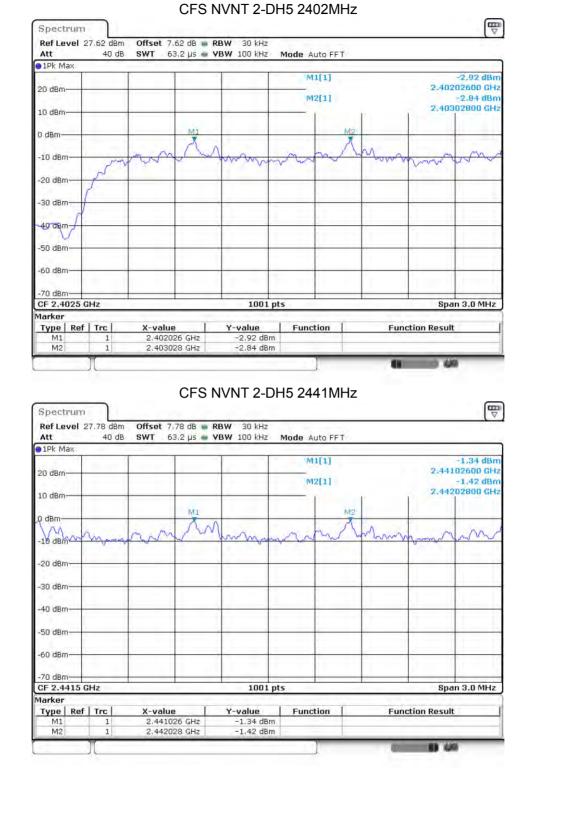
CFS NVNT 1-DH5 2402MHz



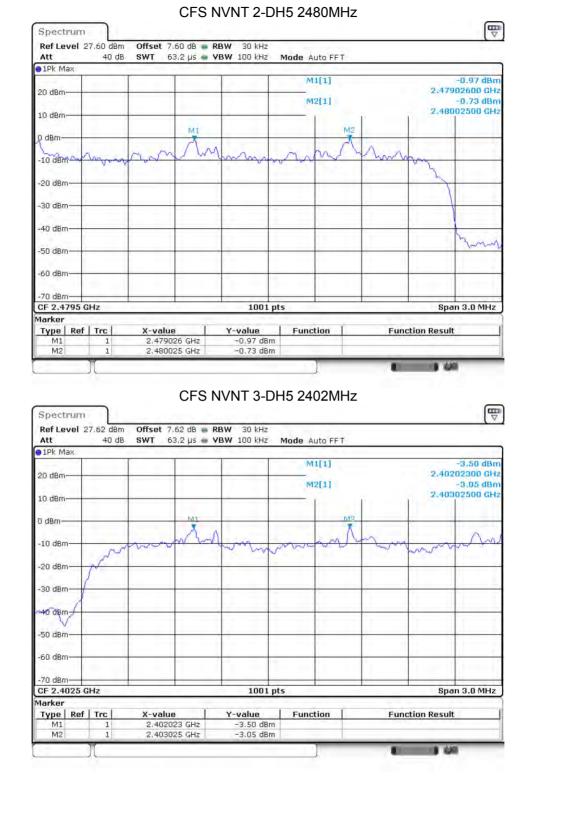




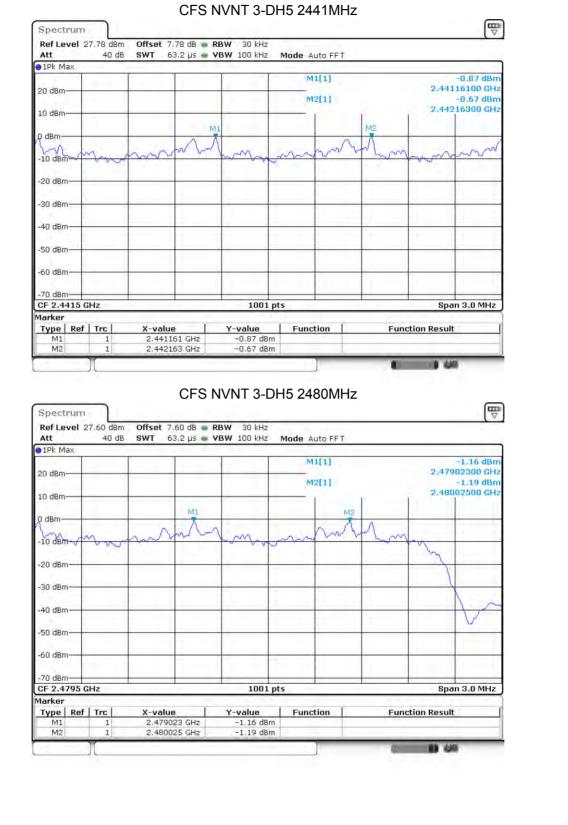














8.5 NUMBER OF HOPPING CHANNEL

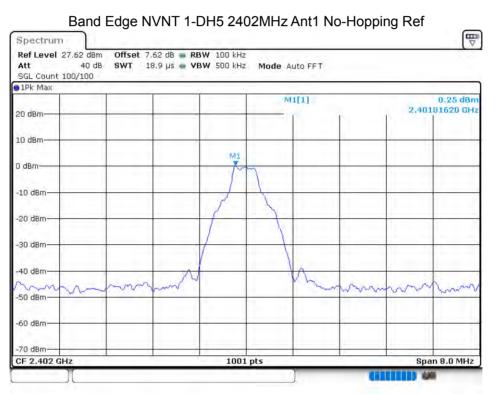
ſ	Condition	Mode	Hopping Number	Limit	Verdict
	NVNT	1-DH5	79	15	Pass

Ref Level 2 Att SGL Count 7	40 dB	Offset 7.62 dB SWT 1 ms	RBW 100 kHz VBW 300 kHz		Sweep				
01Pk Max			1		1				-
20 dBm				M1[1 M2[1				-1.02 (18370 0.33 (02435	GHz IBm
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-30 dBm	_			-	-			-	
740 dBm	-								hur
-50 dBm								-	
-60 dBm			-		_	_		-	
-70 dBm									
Start 2.4 GH	z		1001	pts	-		Stop 2	.4835 G	Hz
Marker Type Ref	Tre	X-value	Y-value	Function	r 1	Euno	tion Result		1
M1	1	2.401837 GHz	-1.02 dB			Tant	alon Kesun		-



8.6 BAND EDGE

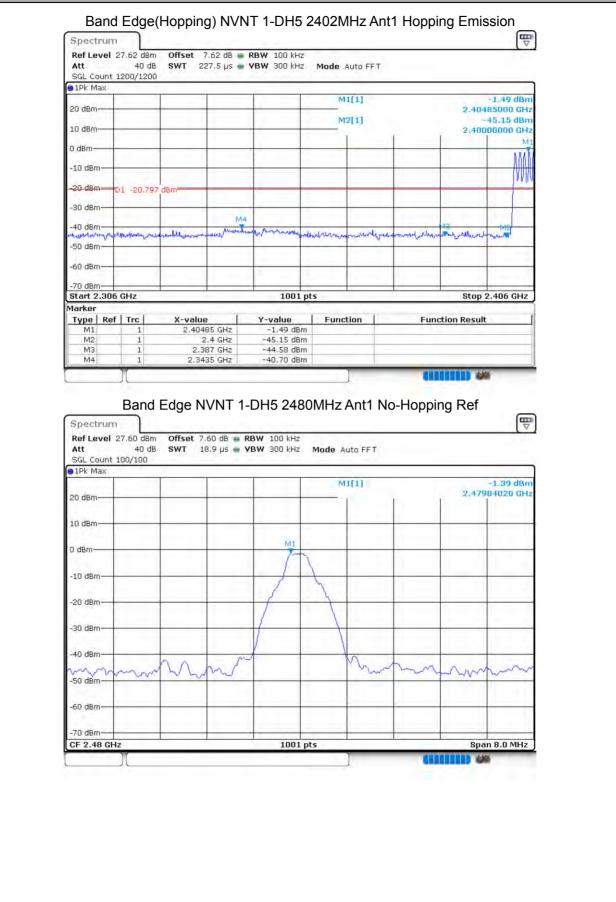
GE						
Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Ant 1	No-Hopping	-40.26	-20	Pass
1-DH5	2402	Ant 1	Hopping	-39.9	-20	Pass
1-DH5	2480	Ant 1	No-Hopping	-42.47	-20	Pass
1-DH5	2480	Ant 1	Hopping	-42.42	-20	Pass
2-DH5	2402	Ant 1	No-Hopping	-38.17	-20	Pass
2-DH5	2402	Ant 1	Hopping	-39.64	-20	Pass
2-DH5	2480	Ant 1	No-Hopping	-40.7	-20	Pass
2-DH5	2480	Ant 1	Hopping	-42.93	-20	Pass
3-DH5	2402	Ant 1	No-Hopping	-41.13	-20	Pass
3-DH5	2402	Ant 1	Hopping	-39.67	-20	Pass
3-DH5	2480	Ant 1	No-Hopping	-40.38	-20	Pass
3-DH5	2480	Ant 1	Hopping	-43.15	-20	Pass
	Mode 1-DH5 1-DH5 1-DH5 2-DH5 2-DH5 2-DH5 2-DH5 3-DH5 3-DH5 3-DH5	Mode Frequency (MHz) 1-DH5 2402 1-DH5 2402 1-DH5 2402 1-DH5 2480 2-DH5 2402 2-DH5 2402 2-DH5 2402 2-DH5 2480 2-DH5 2480 3-DH5 2402 3-DH5 2402 3-DH5 2480	Mode Frequency (MHz) Antenna 1-DH5 2402 Ant 1 1-DH5 2402 Ant 1 1-DH5 2402 Ant 1 1-DH5 2480 Ant 1 1-DH5 2480 Ant 1 1-DH5 2480 Ant 1 2-DH5 2402 Ant 1 2-DH5 2402 Ant 1 2-DH5 2480 Ant 1 2-DH5 2480 Ant 1 3-DH5 2402 Ant 1	ModeFrequency (MHz)AntennaHopping Mode1-DH52402Ant 1No-Hopping1-DH52402Ant 1Hopping1-DH52402Ant 1Hopping1-DH52480Ant 1No-Hopping1-DH52480Ant 1Hopping2-DH52402Ant 1Hopping2-DH52402Ant 1Hopping2-DH52402Ant 1Hopping2-DH52480Ant 1Hopping2-DH52480Ant 1Hopping3-DH52402Ant 1Hopping3-DH52402Ant 1Hopping3-DH52480Ant 1Hopping3-DH52480Ant 1Hopping	Mode Frequency (MHz) Antenna Hopping Mode Max Value (dBc) 1-DH5 2402 Ant 1 No-Hopping -40.26 1-DH5 2402 Ant 1 Hopping -39.9 1-DH5 2402 Ant 1 Hopping -42.47 1-DH5 2480 Ant 1 No-Hopping -42.47 1-DH5 2480 Ant 1 Hopping -38.17 2-DH5 2402 Ant 1 No-Hopping -38.17 2-DH5 2402 Ant 1 No-Hopping -38.17 2-DH5 2402 Ant 1 No-Hopping -39.64 2-DH5 2480 Ant 1 Hopping -40.7 2-DH5 2480 Ant 1 No-Hopping -40.7 2-DH5 2480 Ant 1 Hopping -42.93 3-DH5 2402 Ant 1 Hopping -39.67 3-DH5 2480 Ant 1 Hopping -39.67 3-DH5 2480 Ant 1 No-Hopping	Mode Frequency (MHz) Antenna Hopping Mode Max Value (dBc) Limit (dBc) 1-DH5 2402 Ant 1 No-Hopping -40.26 -20 1-DH5 2402 Ant 1 Hopping -39.9 -20 1-DH5 2402 Ant 1 Hopping -39.9 -20 1-DH5 2480 Ant 1 No-Hopping -42.47 -20 1-DH5 2480 Ant 1 Hopping -42.42 -20 1-DH5 2480 Ant 1 Hopping -42.42 -20 2-DH5 2402 Ant 1 No-Hopping -38.17 -20 2-DH5 2402 Ant 1 Hopping -39.64 -20 2-DH5 2480 Ant 1 No-Hopping -40.7 -20 2-DH5 2480 Ant 1 No-Hopping -41.13 -20 3-DH5 2402 Ant 1 No-Hopping -41.13 -20 3-DH5 2402 Ant 1 Hopping <





1Pk Max				-	M	1[1]			-0.39 dBn]
20 dBm		_						2.40	195000 GH	z
10 dBm	-	_		-	M	2[1]	6	2.40	-45.74 dBn	
0 dBm				-				-	MI	-
-10 dBm	-	-		-			-	-		-
-20 dBm-D	1 -19,755 d	Bm	-			-	(+ 1	
-30 dBm			-	M4				-		
-40 dBm	militanteling	undrustry Mr.	handner	antonio Martineter	horpolicement	1 Act 10 - Row of De	The life and the shire the of	MB	which read have	
-50 dBm	officers and to finite a	ALC: NOT ON THE OWNER.	and a	-	a hier a de	And an analyse	and a to be available			
-60 dBm				1				1		
-70 dBm	GHz			1001	pts	-		Stor	2.406 GHz	
Marker Type Ref	Tree	X-value	1	Y-value	Funct	lan I		-Ven De se	14	1
M1 M2	1	2.4019	95 GHz	-0.39 dB	Sm	.1011	Fun	ction Resu	iit.	-
M3 M4	1	2.3	.4 GHz 39 GHz 27 GHz	-46.64 dB -40.01 dB	Sm					
WI Y										10
Spectrum Ref Level 27 Att SGL Count 80 1Pk Max	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	Mode Au		Ant1 Ho		-0,80 dBn	
Spectrum Ref Level 27 Att SGL Count 80 1Pk Max 20 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		√	n z
Spectrum Ref Level 27 Att SGL Count 80 1Pk Max 20 dBm 10 dBm -10 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		-0.80 dBn 1583620 GH:	n z
Spectrum Ref Level 27 Att SGL Count 80 1Pk Max 20 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		-0.80 dBn 1583620 GH:	n z
Spectrum Ref Level 27 Att SGL Count 80 1Pk Max 20 dBm 10 dBm -10 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		-0.80 dBn 1583620 GH:	n z
Spectrum Ref Level 27 Att SGL Count 80 1Pk Max 20 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		-0.80 dBn 1583620 GH:	n z
Spectrum Ref Level 27 Att SGL Count 80 1Pk Max 20 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		-0.80 dBn 1583620 GH:	n z
Spectrum Ref Level 2: Att SGL Count 80 PIPk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		-0.80 dBn 1583620 GH:	n z
Spectrum Ref Level 2: Att SGL Count 80 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	nd Edge	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	: Mode Au	uto FFT	Ant1 Ho		-0.80 dBn 1583620 GH:	n z
Spectrum Ref Level 27 Att SGL Count 80 PIPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	nd Edge 7.62 dBm 40 dB 3000/8000	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	Mode Au	uto FFT	Ant1 Ho	2.44	-0.80 dBn 1583620 GH:	
Spectrum Ref Level 27 Att SGL Count 80 PIPk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	nd Edge 7.62 dBm 40 dB 3000/8000	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	Mode Au	uto FFT	Ant1 Ho	2.44	-0.80 dBn 1583620 GH:	
Spectrum Ref Level 27 Att SGL Count 80 PIPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	nd Edge 7.62 dBm 40 dB 3000/8000	e(Hopp	Ding) N\ 62 dB RE	3W 100 kHz	Mode Au	uto FFT	Ant1 Ho	2.44	-0.80 dBn 1583620 GH:	







SGL Count 1 1Pk Max	00/100	-							
			-	1	M	1[1]		Gua	-1.40 dBm
20 dBm				1	M	2[1]			995000 GHz -46.32 dBm
10 dBm						1	1		350000 GHz
0 d8m	_	1	-	-		-	-	-	
-10 dBm			-			-	-	-	
-20,cBm-0	1 -21.390	dBm					1	1	1
-30 gBm-						-			
-40 dBm	C.	4		1	-	1	1	1	1223
-50 dBm	railwayen (frank)	break the balance	Maria Marialla	unerthant sound	attacklassmallplan	andaland	negotalenutran	mentan mentanimus	ant water and the second
-60 dBm		-						1	1 1
			- II		£	· · · · · ·	- Fii	1	· · · · · · · · · · · · · · · · · · ·
-70 dBm Start 2.476	GHz		1	100:	l pts			Stop	2.576 GHz
Marker Type Ref	Trol	X-valu	- T	Y-value	Func	tion 1	Euro	tion Resul	
M1	1	2.479	995 GHz	-1.40 dE	3m	uun	Fund	alon kesu	
M2 M3	1		335 GHz 2.5 GHz	-46.32 de -45.78 de					
M4	1	2.49	962 GHz	-43.87 dE	3m		-		
Ba Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max	7.60 dBm 40 dB	Offset 7	.60 dB 🐞 F	VNT 1-E	2 2 Mode A	uto FFT	Ant1 Ho	pping R	
Spectrum Ref Level 2 Att SGL Count 8 1Pk Max	7.60 dBm 40 dB	Offset 7	.60 dB 🐞 F	RBW 100 kHa	2 2 Mode A		Ant1 Ho	1 200	
Spectrum Ref Level 2 Att SGL Count 8	7.60 dBm 40 dB	Offset 7	.60 dB 🐞 F	RBW 100 kHa	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 1Pk Max	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 1Pk Max 20 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHa	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 1Pk Max 20 dBm 10 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	₩ ⊽
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	1.01 dBm 916080 GHz
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	1.01 dBm 916080 GHz
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	7.60 dBm 40 dB	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	2 2 Mode A	uto FFT	Ant1 Ho	1 200	1.01 dBm 916080 GHz
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -0 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm	7.60 dBm 40 dB 009/8009	Offset 7	7.60 dB		Z Mode A	uto FFT	Ant1 Ho	2.479	1.01 dBm 216080 GHz
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	7.60 dBm 40 dB 009/8009	Offset 7	7.60 dB	RBW 100 kHz YBW 300 kHz	Z Mode A	uto FFT	Ant1 Ho	2.479	1.01 dBm 916080 GHz
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -0 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm	7.60 dBm 40 dB 009/8009	Offset 7	7.60 dB		Z Mode A	uto FFT	Ant1 Ho	2.479	1.01 dBm 216080 GHz
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -0 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm	7.60 dBm 40 dB 009/8009	Offset 7	7.60 dB		Z Mode A	uto FFT	Ant1 Ho	2.479	1.01 dBm 216080 GHz
Spectrum Ref Level 2 Att SGL Count 8 • 1Pk Max 20 dBm 10 dBm -0 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm	7.60 dBm 40 dB 009/8009	Offset 7	7.60 dB		Z Mode A	uto FFT	Ant1 Ho	2.479	1.01 dBm 216080 GHz

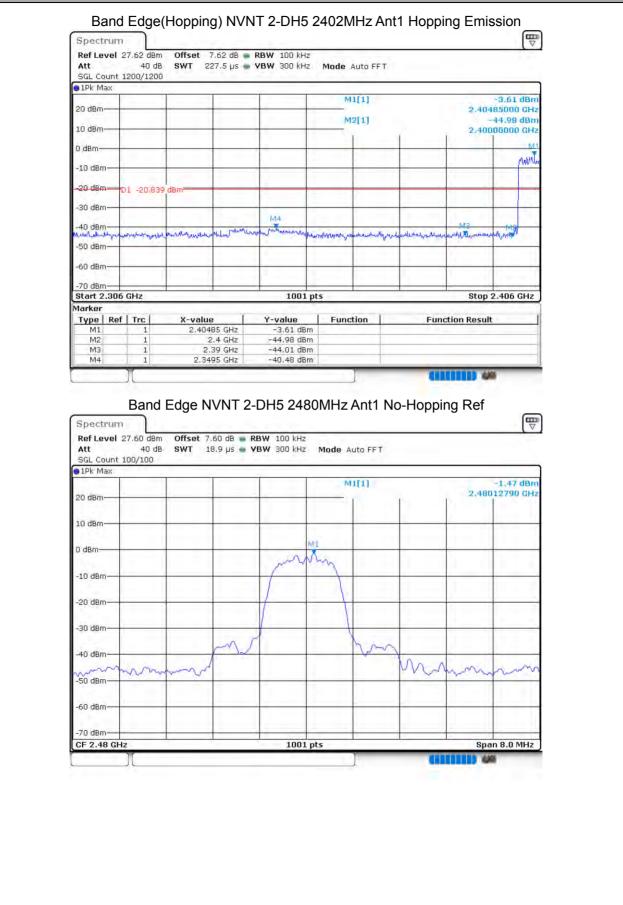


Att 40 SGL Count 1200/1: 1Pk Max	dB SWT 227,5 μ: 200	E training the second	Mode Auto FF1			
	- T T		M1[1]		1.02 di	
20 dBm			M2[1]		2.47995000 G -43,92 dt	
10 dBm				() (2.48350000 G	iHz
p dBm	-					11
+ 10 /dBm			-			1
-20 dBm-01 -18	986 dBm:			-		1.4
-30 cBm		-				
-40 dBm	Mtha	- which have a start of the second		peakerennonanterman	Monthe handling	
-50 dBm	- manual mound	- management and	monor have been and	periodic and a second second	a marketinger	and the second s
-60 dBm						
-70 dBm						
Start 2.476 GHz	1. 1	1001 j	ots		Stop 2.576 GH	+z
Marker Type Ref Trc	X-value	Y-value	Function	Functio	n Result	1
M1 1 M2 1	2.47995 GH: 2.4835 GH:					
M3 1 M4 1	2.5 GH 2.4983 GH	z -43,70 dBm	b l			
IMI+ T	2.4903 GH	2 -41,42 UDII		-		_
Spectrum Ref Level 27.62 c Att 40 SGL Count 100/10	dB SWT 18.9 µs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT		[
Spectrum Ref Level 27.62 c Att 40	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	A.2		-2,36 dt	Bm
Spectrum Ref Level 27.62 c Att 40 SGL Count 100/10	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		[Bm
Spectrum Ref Level 27.62 c Att 40 SGL Count 100/10 1Pk Max	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.62 c Att 40 SGL Count 100/10 • 1Pk Max 20 dBm 10 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/10 • 1Pk Max 20 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/10 • 1Pk Max 20 dBm 10 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.62 c Att 40 SGL Count 100/10 • 1Pk Max 20 dBm 10 dBm 0 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.62 c Att 40 SGL Count 100/10 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/10 • 1Pk Max 20 dBm 10 dBm -10 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/10 • 1Pk Max 20 dBm 10 dBm 10 dBm - - -10 dBm - - - -20 dBm - - -	Bm Offset 7.62 dB dB SWT 18.9 µs	🖷 RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.62 c Att 40 SGL Count 100/10 • IPk Max 20 Bm 10 dBm - - -10 dBm - - -20 dBm - - -30 dBm - -	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/100 • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/100 IPK Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2,36 dt	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/100 • IPk Max 20 dBm 20 dBm 10 dBm 20 dBm -10 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2.36 di 2.40200900 G	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/100 • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2.36 di 2.40200800 G	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/100 • IPk Max 20 dBm 20 10 dBm 20 -10 dBm 20 -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm -70 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2.36 di 2.40200900 G	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/100 • IPk Max 20 dBm 20 10 dBm 20 -10 dBm 20 -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm -70 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2.36 di 2.40200800 G	Bm
Spectrum Ref Level 27.52 c Att 40 SGL Count 100/100 • IPk Max 20 dBm 20 10 dBm 20 -10 dBm 20 -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm -70 dBm	Bm Offset 7.62 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT		-2.36 di 2.40200800 G	Bm



20 dBm	20 dBm 0 2.4021500 cHz 10 dBm 0 2.40025000 cHz 2.4000000 cHz 0 dBm 0 1 -22.363 dBm 0 444 40 dBm 0 1 -2.39 GHz 0 -2.60 dBm 0 444.30 dBm 0 444 M3 1 2.39 GHz 0 -2.60 dBm 0 444.30 dBm 0 444 M3 1 2.39 GHz 0 -2.60 dBm 0 444.30 dBm 0 444.30 dBm 0 444 M3 1 2.39 GHz 0 -2.60 dBm 0 444.30	• 1Pk Max	1	1	-	M1[1	1		-0.60 dBm
10 dBm 0 2.4000000 0H2 20 dBm 0 4.22,303 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10 dBm 01 -22,383 dBm 01 -22,48000000 CH- 20 dBm 01 -22,383 dBm 01 - 24,4800000 CH- 20 dBm 01 -22,383 dBm 01 - 44 40 dBm 01 -22,383 dBm 01 - 44 50 dBm 01 -22,383 dBm 01 - 44 50 dBm 01 -22,383 dBm 01 - 44 50 dBm 01 - 22,383 dBm 01 - 44 50 dBm 01 - 22,393 dBm 01 - 44 50 dBm 01 - 22,393 dBm 01 - 44 10 2,390 GHz 10.2,39 GHz -45,16 dBm 01 - 44 10 2,390 GHz 10.2,39 GHz -45,16 dBm 01 - 44 10 2,390 GHz 10.2,39 GHz -45,16 dBm 01 - 44 10 2,390 GHz 10.2,39 GHz -45,16 dBm 01 - 44 10 2,390 GHz 10.2,39 GHz -45,16 dBm 01 - 44 10 2,390 GHz 10.2,39 GHz -45,16 dBm 01 - 44 10 dBm 01 - 2,39 GHz -45,16 dBm 01 - 44 10 dBm 01 - 2,39 GHz 10.2,39 BW 300 Hz Mode Auto FFT 50 Count 80000000 10 PF Max 00 GHz 10.2,9 BW 100 Hz Made Auto FFT 50 Count 80000000 10 PF Max 00 GHz 10.2,9 BW 100 Hz Made Auto FFT 50 Count 80000000 10 PF Max 00 GHz 10.2,9 BW 300 Hz Made Auto FFT 50 Count 80000000 10 DBm 01 - 44 10 dBm 01 - 44	20 dBm			-			2.40	215000 GHz
0 dBm 10 dBm 20 dBm 21 22,363 dBm 24 40	0 dBm -10 dBm -11 d2, 45 dB -11 2, 45 dB -1	10 dBm	-		-	1		2.40	000000 GHz
20 dBm 01 - 22.363 dBm 44 30 dBm 44 44 44 40 dBm 101 pts Stop 2.406 GHz 101 pts Stop 2.406 GHz 101 pts 101 pt 2.40 (21 5 GHz 100 pts 101 pt 2.40 (21 5 GHz 44.30 dBm 101 pt 2.40 (21 5 GHz 44.30 dBm 101 pt 2.39 (GHz 44.33 dBm 101 pt 2.349 GHz 10.59 BF YBW 300 HHZ 101 pt 2.40 GBM M111 2.40 GBMO GHZ 101 pt 2.40 GBM 44.33 dBm 440 GMA 10 dBm 0 dBm 0 dBm 0 dBm 0 dBm 10 dBm 0 dBm 0 dB	-20.88m -1 -22.363 dm -1 -40 -41	0 dBm	-					-	X
30 dem M4	-00 dBm	-10 dBm							
40 dBm 44	40 dBm 44	-20 dBm-01 -22	.363 dBm		-	-	_	_	
40 dBm 50 dBm -0 dB	40 dBm	-30 dBm			M4.	-			
50 dBm	-50 dBm	-40 dBm	a putra anti trada mon	and manufactory	-	understand with the prime	un phil about in some	united with which	and the who
Jord Bin Stop 2.400 GHz Yarkar 1001 pts Stop 2.400 GHz Mail 1 2.40215 GHz GHz Function Result M1 1 2.40215 GHz -44.516 dBm	Jond Bin Stop 2.400 GHz Type Ket Trc X-volue Y-volue Function Result M1 1 2.40215 GHz GHz Function Result M2 1 2.402 GHz GHz Function Result M3 1 2.396 GHz -40.53 dBm GHz M3 1 2.396 GHz -40.53 dBm GHz M4 1 2.396 GHz -40.53 dBm GHz GHZ M4 1 2.396 GHz -40.53 dBm GHZ GHZ GHZ Sectrum V V WWW 300 KHZ Mode Auto FFT GUZ GUZ GHZ -40.400 GH	-50 dBm							
Start 2::006 GHz Stop 2::406 GHz Yorker Stop 2::406 GHz Marker Function Result Function Result M1 1 2::404 GHz -0.60 dBm M2 1 2::406 GHz Function Result M2 1 2::404 GHz -44::44::43 dBm M3 1 2::39 GHz -45::16 dBm Function Result M4 1 2::39 GHz -40::53 dBm Function Result Ref Level 27::62 dBm Offset 7::62 dB RBW 100 kHz Mode Auto FFT SGL Count 8000/9000 SWT 18::9 µS VBW 300 kHz Mode Auto FFT O dBm M1 0::9 µS VBW 300 kHz Mode Auto FFT O dBm M1 0::9 µS WBW 300 kHz Mill 0::0 #GHZ 10 dBm M1 0::9 µS WBW 300 kHz Mill 0:0	Start 2.306 GHz Stop 2.406 GHz Marker Trc X-volue Y-volue Function Function Result M1 1 2.40215 GHz -0.60 dbm Function Function Result M2 1 2.4024 GHz -44.3 dbm Function Function Result M2 1 2.4346 GHz -45.16 dbm Function Function Result M3 1 2.396 GHz -45.16 dbm Function Function Result M4 2.3446 GHz -40.53 dbm Function Result Function Result Function Result M4 2.3446 GHz -40.53 dbm Function Result Function Result Function Result M4 2.3446 GHz -40.53 dbm Function Result Function Result Function Result Ref Level 27.62 dbm Offset 7.62 db RBW 100 kHz Mode Auto FFT Function Result Function Result 92 dbm 0 dbm M1[1] -0.84 dbm -0.84 dbm 10 dbm M3 M3 Gas -40399900 GHz -40399900 GHz -10 dbm M3 M3 M3				f		I		
Type Ref Trc X-value Y-value Function Function Result M1 1 2.40215 GHz -0.60 dBm -0.60 dBm -0.60 dBm M2 1 2.40215 GHz -44.33 dBm -0.60 dBm -0.60 dBm M3 1 2.39 GHz -45.16 dBm -40.53 dBm - - M3 1 2.3496 GHz -40.53 dBm - <td>Type Ref Trc X-value Y-value Function Function Function Result M1 1 2.40215 GHz -0.60 dBm -0.60 dBm -0.60 dBm M2 1 2.4042 -44.33 dBm -44.33 dBm -0.60 dBm -0.60 dBm M3 1 2.39 GHz -45.16 dBm -40.53 dBm -0.60 dBm -0.61 dBm</td> <td></td> <td></td> <td> </td> <td>1001</td> <td>pts</td> <td></td> <td>Stop</td> <td>2.406 GHz</td>	Type Ref Trc X-value Y-value Function Function Function Result M1 1 2.40215 GHz -0.60 dBm -0.60 dBm -0.60 dBm M2 1 2.4042 -44.33 dBm -44.33 dBm -0.60 dBm -0.60 dBm M3 1 2.39 GHz -45.16 dBm -40.53 dBm -0.60 dBm -0.61 dBm				1001	pts		Stop	2.406 GHz
Mi 1 2.40215 GHz -0.60 dBm Mi 1 2.39 GHz -45.16 dBm Mi 1 2.39 GHz -45.16 dBm Mi 1 2.3496 GHz -40.53 dBm Spectrum Wi Wi Wi Ref Level 27.62 dB RBW 100 kHz Made Auto FFT SGL count B000/8000 SWT 18.9 µS VBW 300 kHz Made Auto FFT SGL count B000/8000 WIT 18.9 µS VBW 300 kHz Made Auto FFT SGL count B000/8000 MI(1) -0.84 dBm -0.84 dBm 20 dBm MI MI(1) -0.84 dBm -0 dBm MI MI MI -0 dBm <	Mi 1 2.40215 GHz -0.60 dBm Mi 1 2.39 GHz -45.16 dBm Mi 1 2.39 GHz -45.16 dBm Mi 1 2.3496 GHz -40.53 dBm Mi 1 2.3496 GHz -40.53 dBm Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref Image: Comparison of the transformed state in the transform state in	Marker	1	- 1	A. (0.100	1		-	
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M4 1 2.3496 GHz -40.53 dBm Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref Spectrum Image: Contract of the second se	M4 1 2.3496 GHz -40.53 dBm Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref Spectrum Ref Level 27.52 dB Offset 7.62 dB RBW 100 kHz Std. Count B000/8000 SWT 18.9 µS VBW 300 kHz Mode Auto FFT Std. Count B000/8000 0 MI(1) -0.84 dBm 20 dBm 0 MI 2.40398000 GHz 10 dBm 0 MI 0 -10 dBm 0 MI 0 -30 dBm 0 0 MI -40 dBm 0 0 0 -30 dBm 0 0 0 -30 dBm 0 0 0 -40 dBm 0 0 0 -30 dBm 0 0 0 -30 dBm 0 0 0 -40 dBm 0 0 0 -30 dBm 0 0 0 -30 dBm 0 0 0 -40 dBm 0 0 0 -30 dBm 0			and a second					
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0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -70 d	0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -10 d	10 dBm							
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-30 dBm -40 dBm -50 dBm -60 dBm -70	-30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 1001 pts Span 8.0 MHz				1	U.			mon
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-50 dBm -50 dBm -60 dBm -70 dBm -70 dBm CF 2.402 GHz 1001 pts Span 8.0 MHz	-50 dBm -60 dBm -70 dBm -70 dBm (F 2.402 GHz 1001 pts Span 8.0 MHz)	-10 dBm							m
-60 dBm -70 dBm CF 2.402 GHz 1001 pts Span 8.0 MHz	-60 dBm -70 dBm CF 2.402 GHz 1001 pts Span 8.0 MHz	-10 dBm							m
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-70 dBm CF 2.402 GHz 1001 pts Span 8.0 MHz	-70 dBm CF 2.402 GHz 1001 pts Span 8.0 MHz	-10 dBm -20 dBm -30 dBm -40 dBm		ma					h
CF 2.402 GHz 1001 pts Span 8.0 MHz	CF 2.402 GHz 1001 pts Span 8.0 MHz	-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						hhan
		-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm		- www					
		-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm							hh
		-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm			1001	pts			







Att 40 di SGL Count 100/100 1Pk Max	8 SWT 227.5µ	s 🎃 VBW 300 kHz	Mode Auto FFT			
20 dBm			M1[1]		-1.73 dB 2.48015000 G	
10 dBm			M2[1]		-43.78 dB	m
				1	2.48350000 GI	-12
-10 dBm						
	E de la					1
-20 dBm-01 -21,47	o upm					1
-40 dBm2 M4	Ma	0			-	1
-50 dBm	where the second stand	manutal anather washing	ar Marallahan Marandra Maran	when the second for the second second	mathematication	A.A
-60 dBm						
-70 dBm					1	
Start 2.476 GHz Marker		1001	pts		Stop 2.576 GH	z
Type Ref Trc M1 1	X-value 2.48015 GH	2 -1.73 dBn	Function	Functi	on Result	_
M2 1 M3 1	2.4835 GH 2.5 GH					
M4 1	2,4922 GH	z -42.17 dBn	n			
Spectrum Ref Level 27.60 dBn Att 40 di SGL Count 8000/800	n Offset 7.60 dB 3 SWT 18,9 µs) NVNT 2-DI RBW 100 kHz YBW 300 kHz	H5 2480MHz Mode Auto FFT	z Ant1 Hop		
Spectrum Ref Level 27.60 dBn Att 40 di SGL Count 8000/8000 1Pk Max	n Offset 7.60 dB 3 SWT 18,9 µs	RBW 100 kHz	13.2.1.1.1.	z Ant1 Hop		
Spectrum Ref Level 27.60 dBn Att 40 di SGL Count 8000/800 PPk Max 20 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 d8	
Spectrum Ref Level 27.60 dBn Att 40 df	n Offset 7.60 dB 3 SWT 18,9 µs	RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 d8	
Spectrum Ref Level 27.60 dBn Att 40 dl SGL Count 8000/800 PR Max 20 dBm 10 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 d8	
Spectrum Ref Level 27.60 dBm Att 40 dl SGL Count 8000/800 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 d8	
Spectrum Ref Level 27.60 dBm Att 40 di SGL Count 8000/800 PPk Max 20 dBm 10 dBm 0 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 d8	
Spectrum Ref Level 27.60 dBm Att 40 dl SGL Count 8000/800 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 dB	
Spectrum Ref Level 27.60 dBm Att 40 dl SGL Count 8000/800 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 dB	
Spectrum Ref Level 27.60 dBm Att 40 dl SGL Count 8000/800 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 dB	
Spectrum Ref Level 27.60 dBn Att 40 dl SGL Count 8000/8000 IPK Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 dB	
Spectrum Ref Level 27.60 dBm Att 40 dl SGL Count 8000/800 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 dB	
Spectrum Ref Level 27.60 dBm Att 40 di SGL Count 8000/8000 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0.98 dB 2.47999200 Gi	
Spectrum Ref Level 27.60 dBm Att 40 di SGL Count 8000/800 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	• RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0,98 dB	
Spectrum Ref Level 27.60 dBm Att 40 di SGL Count 8000/8000 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0.98 dB 2.47999200 Gi	
Spectrum Ref Level 27.60 dBn Att 40 dl SGL Count 8000/8000 IPK Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n Offset 7.60 dB 3 SWT 18,9 µs	RBW 100 kHz	Mode Auto FFT	z Ant1 Hop	0.98 dB 2.47999200 Gi	

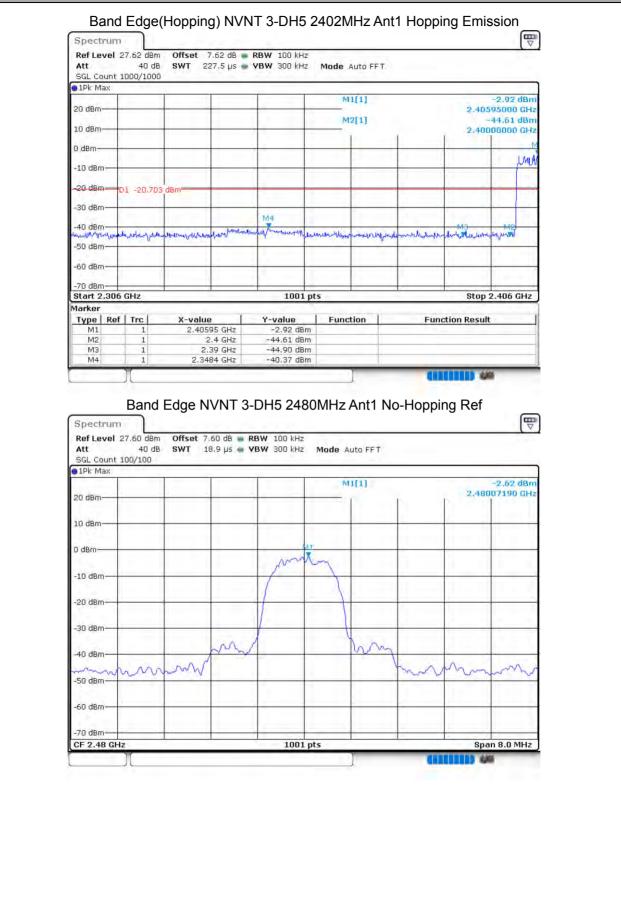


Att SGL Count	40 dB 1000/1000	L RCDA		VBW 300 kHz					
20 dBm-					MI	[1]		2 470	-0.13 dBm 05000 GHz
10 dBm				1.1	Ma	[1]			42.27 dBm
1							1	2.483	50000 GHz
0 dBm			-			1			
- 34 (mm)	i rem								1
-20 dBm	D1 -19,019	dBm							
-30 dBm	M4				-			1	
-40 dBm	an water a first and a second	MB	within the houses	withermore many	Manarthanaport	invalinationships	sy merry man	www.	hand and the second
-50 dBm						-			
-60 dBm					-	-	1	1	-
-70 dBm-	CH7			1001	nts	_	1	Ston	2.576 GHz
Marker						1-1-			
Type Ref M1	1 Trc		D5 GHz	Y-value -0.13 dBr		ion	Fund	tion Result	-
M2 M3	1		35 GHz .5 GHz	-42.27 dBr -43.92 dBr					
M4	1	2.49(09 GHz	-41.96 dBr	m				
Spectrum Ref Level Att	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	-DH5 240 RBW 100 kHz VBW 300 kHz	13.2		о-Норрії	ng Ret	
Ref Level	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au		o-Hoppii		-0.04 dBm 81620 GHz
Ref Level Att SGL Count 1Pk Max	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count 1Pk Max 20 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- 0 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count IPk Max 20 dBm- 10 dBm- -10 dBm- -20 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count • 1Pk Max 20 dBm- 10 dBm- -10 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count IPk Max 20 dBm- 10 dBm- -10 dBm- -20 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count • 1Pk Max 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm-	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	27.62 dBm 40 dB	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT			-0,04 dBm
Ref Level Att SGL Count SGL Count 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	27.62 dBm 40 dB 300/300	Offset 7.	62 dB 🐞 🖡	RBW 100 kHz	Mode Au	ito FFT		2.401	-0.04 dBm 81620 GHz



●1Pk Max				1	M1[1	1			-1.4	dBm
20 dBm					M2[1			2.40	-45.9	0 GHz
10 dBm	-	_			mzt 1			2.40	000000	0 GHz
0 dBm				-			_			MI
-10 dBm				-				-	-	
-20 dBm [01 -20,038	dBm					_		-	
-30 dBm				-	-		_	-	-	
-40 dBm			M4	A arthur at				M3	M	h
-50 dBm	Manufallericht	reconstructure	hunner and	suntrationstructly	rubalization	manuscharter	almentationship	mulikum	(hull your))H]L
-60 dBm				_			_			
-70 dBm							1			
Start 2.306 Marker	GHz		-	1001	pts			Sto	p 2.406	GHz
Type Ref		X-value		Y-value	Function	1	Fund	ction Resu	ult	
M1 M2	1		95 GHz .4 GHz	-1.44 dBr -45.95 dBr	n					
M3 M4	1		39 GHz 01 GHz	-43.04 dBr -41.18 dBr						
1717		2.01	out of the							
Ba Spectrum Ref Level : Att SGL Count 1	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	VNT 3-D	Mode Auto	FFT	nt1 Ho	pping I		E dam
Ba Spectrum Ref Level : Att SGL Count 1	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	13.213	FFT	nt1 Ho			I dBm
Ba Spectrum Ref Level : Att SGL Count 1 • 1Pk Max	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho		-0.70	I dBm
Ba Spectrum Ref Level : Att SGL Count f 1Pk Max 20 dBm 10 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.70	I dBm
Ba Spectrum Ref Level : Att SGL Count f IPk Max 20 dBm 10 dBm 0 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level : Att SGL Count f 1Pk Max 20 dBm 10 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level : Att SGL Count f IPk Max 20 dBm 10 dBm 0 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level 3 Att SGL Count 1 O Bm 10 dBm 0 dBm -10 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level 3 Att SGL Count 1 SGL Count 1 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level : Att SGL Count f IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level 3 Att SGL Count 1 9 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level : Att SGL Count f IC Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level : Att SGL Count I IPk Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	and Edg 27.62 dBm 40 dB	ge(Hopp offset 7.	Ding) N	RBW 100 kHz	Mode Auto	FFT	nt1 Ho	2,4(-0.7(I dBm
Ba Spectrum Ref Level : Att SGL Count I IPk Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm	and Edg 27.62 dBm 40 dB 8000/8000	ge(Hopp offset 7.	Ding) N	RBW 100 kHz		FFT	nt1 Ho	2.44	-0.7(I dBm O GHz
Ba Spectrum Ref Level : Att SGL Count If SGL Count If ID dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	and Edg 27.62 dBm 40 dB 8000/8000	ge(Hopp offset 7.	Ding) N	RBW 100 kHz		FFT	nt1 Ho	2.44	-0.70 051648 ML	I dBm O GHz
Ba Spectrum Ref Level 3 Att SGL Count If SGL Count If ID dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	and Edg 27.62 dBm 40 dB 8000/8000	ge(Hopp offset 7.	Ding) N	RBW 100 kHz		FFT	nt1 Ho	2.44	-0.70 051648 ML	I dBm O GHz







SGL Count 100/1 91Pk Max	40 dB SWT 100	Second Children		z Mode Auto			
20 dBm-	-		1	M1[1]		2.4	-1.02 dBm 7985000 GHz
10 dBm				M2[1]			-44.33 dBm 8350000 GHz
		_				-	
-10 cBm	-	-	-	-	-		
-20 cBm-01 -2	2.623 dBm-	_	-			_	
-30 dBm		-			_		
-40 dBmie M4		ALANSAN MANAMAN	when a standard and a	www.horthurauthur	mulupatheterenthy	wannerstellen	monputation
-50 dBm							1 = 1
-60 dBm							1
Start 2.476 GHz		1	1001	pts	1	Sto	p 2.576 GHz
Marker Type Ref Tr		alue	Y-value	Function		Function Res	ult
M2	1 2	47985 GHz	-1.02 dB -44.33 dB -47.44 dB	m			
M3 M4	1	2.5 GHz 2.4898 GHz	-47.44 0B				
I						CHILIND	
Spectrum Ref Level 27.60	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT	Hopping	
Spectrum Ref Level 27.60 Att SGL Count 8000,	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	100.200	FFT		
Spectrum Ref Level 27.60 Att SGL Count 8000, 1Pk Max	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, •1Pk Max 20 dBm-	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, • 1Pk Max 20 dBm 10 dBm 0 dBm 0 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, • 1Pk Max 20 dBm 10 dBm 0 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT		₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz	Mode Auto	FFT	2.4	₩ 1,23 dBm
Spectrum Ref Level 27.60 Att SGL Count 8000, • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz VBW 300 kHz	Mode Auto	FFT	2.4	1,23 dBm 7983220 GHz
Spectrum Ref Level 27.60 Att SGL Count 8000, • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	dBm Offse	t 7.60 dB 👜 I	RBW 100 kHz VBW 300 kHz	Mode Auto	FFT	2.4	1,23 dBm 7983220 GHz

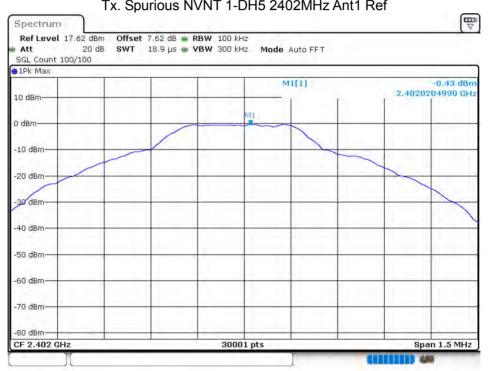


₩			RBW 100 kHz	Offset 7.60 dB	.60 dBm	pectrum lef Level 27
		ode Auto FFT	VBW 300 kHz	SWT 227.5 µs 🖷	40 dB	tt GL Count 10
						1Pk Max
-1.56 dBm		M1[1]				
2.47805000 GHz		-) dBm
-44.02 dBm		M2[1]) dBm
2.48350000 GHz	1					
	-					dBm
A constant for the second of	1.1.1.1.1.1	101 101 101		and the second sec		at 1
	-		-			0 cBm
	+ +			dBm	-18.768	- DI
			1 .	april	-10.700	0 cBm-01
	4 19 10 10 10 10		1			
in the second					M4	
to provide and the second second		and the second second	more moundanemention	M3 . where h		
and manual has proved to be	and a second the second of the	mand reducer amonthan	And Anthony and Anthony	un and and when the second	second rules	monum
) dBm
						0 dBm
						5 GDIII
	-					0 dBm
Stop 2.576 GHz			1001 pts		Hz	art 2.476 0
The second se		And the American				arker
	Func	Function	Y-value	rc X-value		ype Ref
ction Result	, and			D 4700E CUL	1	M1
ction Result	1 dillo		-1.56 dBm	2.47805 GHz		1.1-1
ction Result	i uno		-1.56 dBm -44.02 dBm -44.35 dBm	2.47805 GHz 2.4835 GHz 2.5 GHz	1	M2 M3

® lac-M NTEK 北测 ACCREDITED Certificate #4298.01

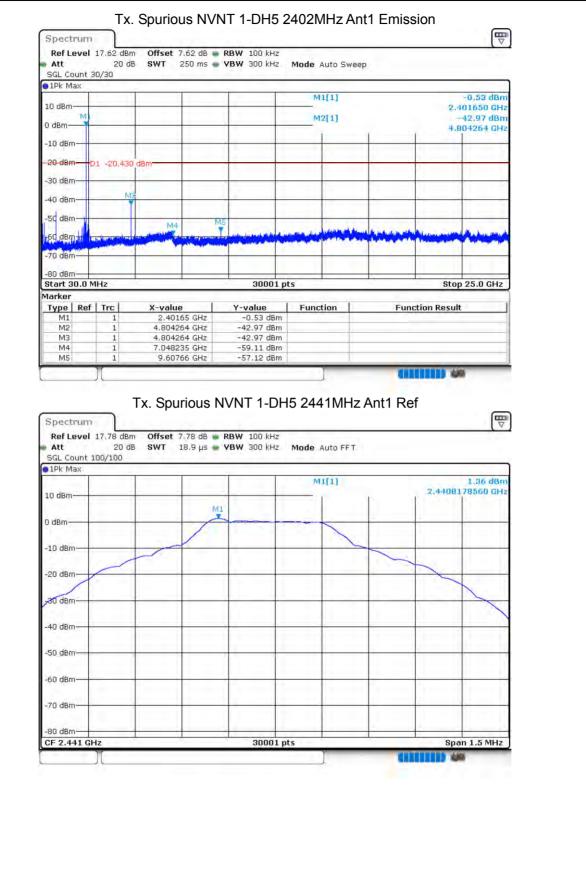
8.7 CONDUCTED RF SPURIOUS EMISSION

CONDUCTED						
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	-42.53	-20	Pass
NVNT	1-DH5	2441	Ant 1	-41.27	-20	Pass
NVNT	1-DH5	2480	Ant 1	-36.73	-20	Pass
NVNT	2-DH5	2402	Ant 1	-42.72	-20	Pass
NVNT	2-DH5	2441	Ant 1	-42.45	-20	Pass
NVNT	2-DH5	2480	Ant 1	-39.31	-20	Pass
NVNT	3-DH5	2402	Ant 1	-44.4	-20	Pass
NVNT	3-DH5	2441	Ant 1	-44.78	-20	Pass
NVNT	3-DH5	2480	Ant 1	-34.25	-20	Pass

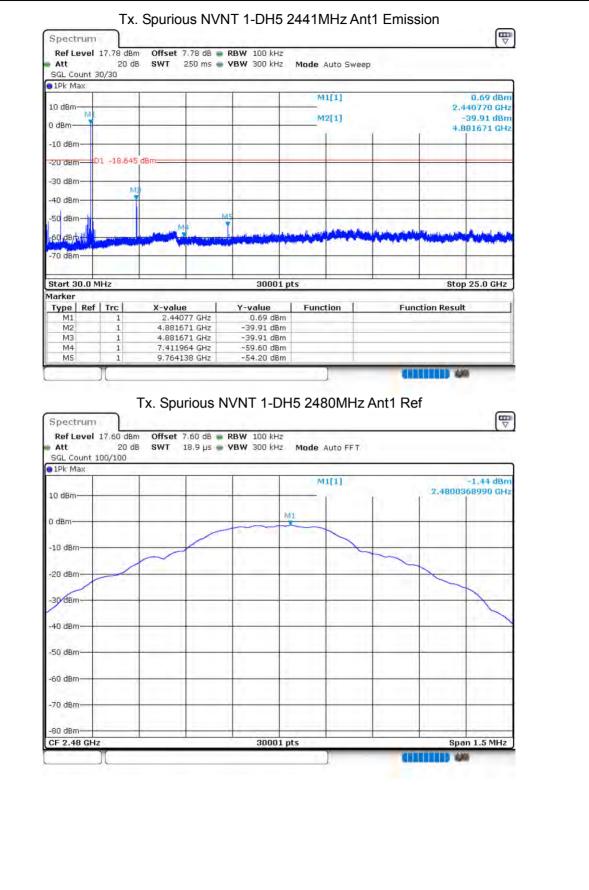


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

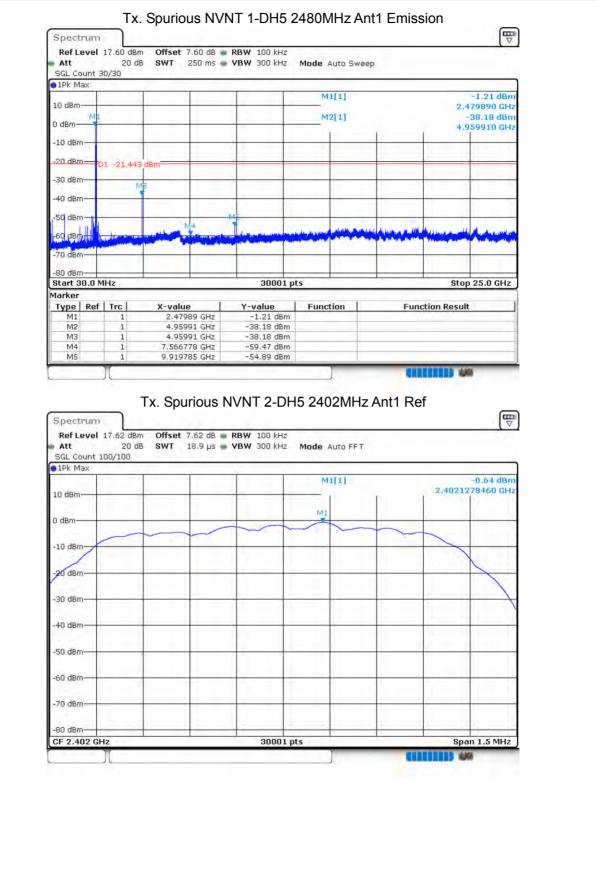




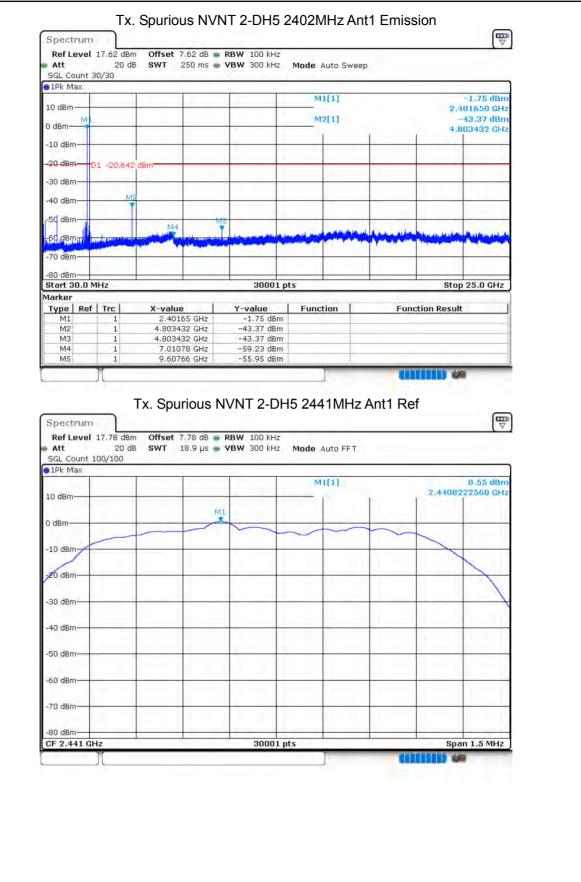




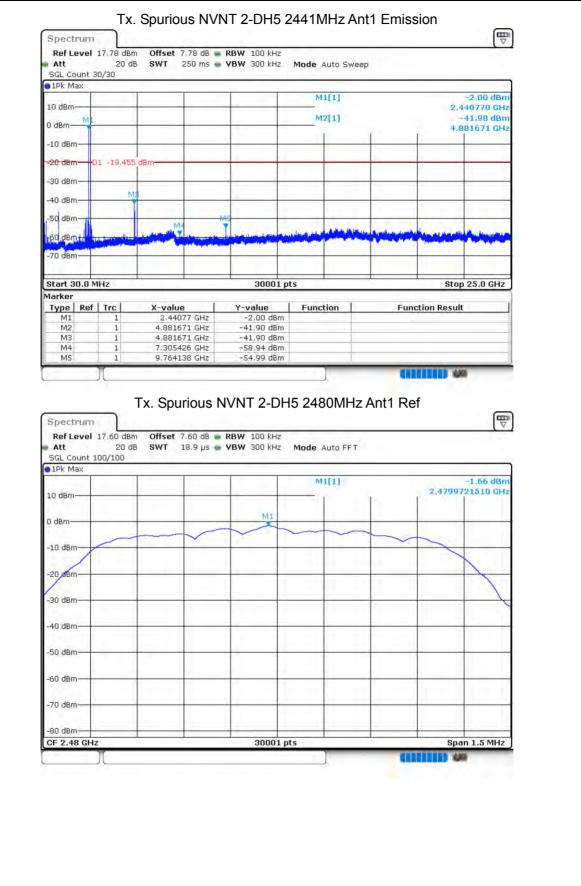




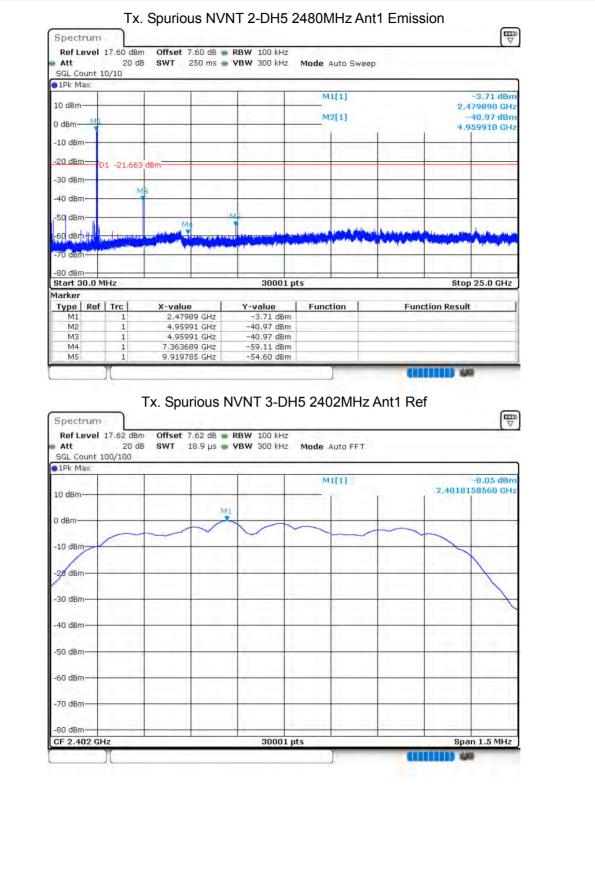




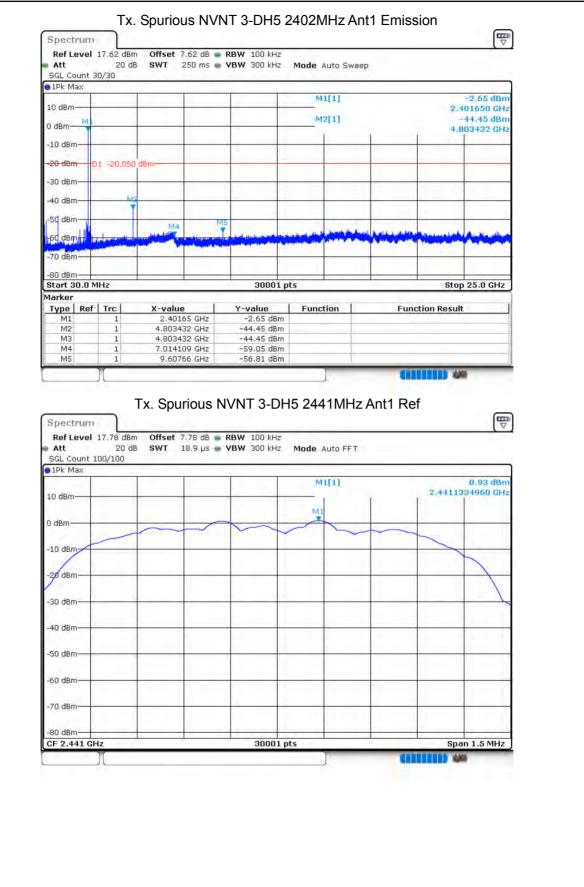




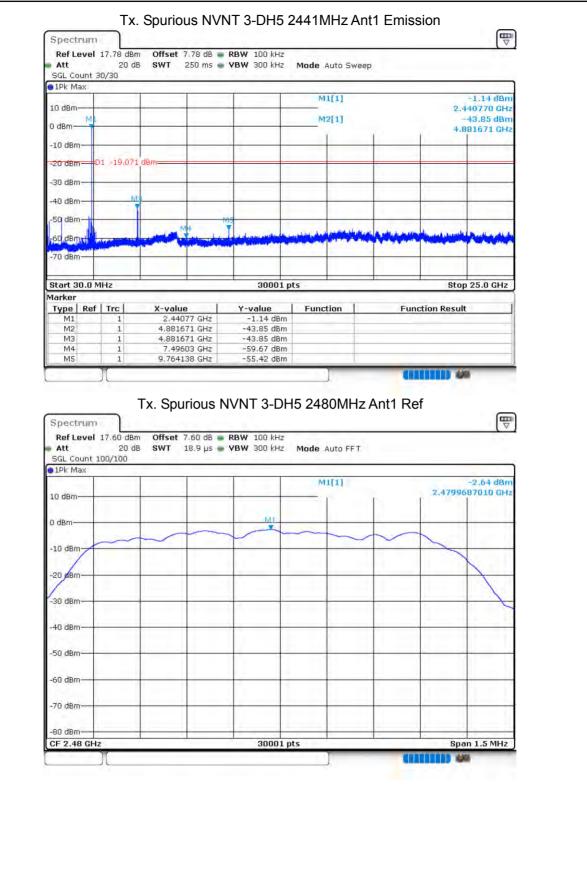














Ref Le	rum evel	17.60 dBm 20 dB		 RBW 100 kHz VBW 300 kHz 			
SGL Co	unt 3	22.25	5 3WI 250 ms	WBW 300 KH2	Mode Auto Sw	eep	
1Pk M							
2. 2.3					M1[1]		-0.95 dBm
10 dBm		_					2.479890 GHz
0 dBm-	ML				M2[1]		-36.89 dBn
2 GDIII					i.	1 1	4.959078 GHz
-10 dBm		-					
20 dBm	D	1 -22.638	dBm				
30 dBm	r	6.0					
		14					
40 dBm		_		7			
50 dBm				MA			
SU UBI			M4			al an elle	and a start
50 dBr			the state of the s	and the particular for the state			and had been been and a
		A manufacture of the last of	in the second	the street of th	11111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
70 dBm							
-SO dBm	r						
Start 3	0.0 M	IHz		30001 pt	s		Stop 25.0 GHz
larker		a la seconda		Anna Anna Anna		and the second se	
	Ref	Trc	X-value	Y-value	Function	Functio	n Result
Type	F 2. 1	1	2.47989 GHz	-0.95 dBm			
M1		1	4.959078 GHz	-36.89 dBm			
M1 M2				-36.89 dBm			
M1 M2 M3		1	4.959078 GHz	the second se			
M2		1	4,959078 GHz 7,484377 GHz 9,919785 GHz	-59.71 dBm -54.01 dBm			

END OF REPORT