

RADIO TEST REPORT FCC ID: PUU-LEDX9DA21M

Certificate #4298.01

Product:	RGB Speaker A21 Lamp	
Trade Mark:	88	
Model No.:	LED+9DA21M/SWRGBSPK	
Family Model:	LED+9DA21M/DLRGBSPK	
Report No.:	S21041500201001	
Issue Date:	10 May. 2021	

Prepared for

Savant Technologies LLC dba GE Lighting, a Savant Company 1975 Noble Road, Cleveland, Ohio, United States, 44112

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District Shenzhen, Guangdong, China Tel:400-800-6106,0755-2320 0050 / 2320 0090 Website: http://www.ntek.org.cn

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1 TEST RESULT CERTIFICATION

Applicant's name:	Savant Technologies LLC dba GE Lighting, a Savant Company	
Address:	1975 Noble Road, Cleveland, Ohio, United States, 44112	
Manufacturer's Name:	SHENZHEN FENDA TECHNOLOGY CO., LTD.	
Address:	Fenda Hi-Tech Park, Zhoushi Road, Shiyan Town, Baoan District, Shenzhen City, China	
Product description		
Product name:	RGB Speaker A21 Lamp	
Model and/or type reference:	LED+9DA21M/SWRGBSPK	
Family Model:	LED+9DA21M/DLRGBSPK	

Measurement Procedure Used:

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

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

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

Date of Test	: 15 Apr. 2020 ~ 07 May. 2021
Testing Engineer	: (Mary Hu)
Technical Manager	: (Mary Hu)
5	(Jason Chen)
Authorized Signatory	Ster
с <i>У</i>	(Alex Li)

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SUMMARY OF TEST RESULTS 2

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	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		
15.247 (g) (h)	Frequency hopping system (FHSS) equipment requirements	PASS		
15.203	Antenna Requirement	PASS		

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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, Xixiang, Bao'an District Shenzhen, Guangdong, 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).
Name of Firm:Site Location:	Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District Shenzhen, Guangdong, 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%

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4 GENERAL DESCRIPTION OF EUT

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Product Feature and Specification		
Equipment	RGB Speaker A21 Lamp	
Trade Mark	83	
FCC ID	PUU-LEDX9DA21M	
Model No.	LED+9DA21M/SWRGBSPK	
Family Model	LED+9DA21M/DLRGBSPK	
Model Difference	All the model are the same circuit and RF module, except the color temperature	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	PCB Antenna	
Antenna Gain	1.73 dBi	
	AC supply: AC 120V/60Hz	
Power supply	Adapter supply:	
HW Version	A21 RGB-01-D	
SW Version	V1.6	

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



Report No.: S21041500201001

Revision History

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		-	
Report No.	Version	Description	Issued Date
S21041500201001	Rev.01	Initial issue of report	07 May. 2021



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 π /4-DQPSK modulation; 3Mbps for 8-DPSK modulation) were used for all test.

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

Carrier Frequency and Channel list:

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

Note: fc=2402MHz+k×1MHz k=0 to 78(k is the Channel)

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 autout newer		

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

For Radiated Test Cas	es
Final Test Mode	Description
Mode 1	normal link mode
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			
Mode 2	CH00(2402MHz)			
Mode 3	CH39(2441MHz)			
Mode 4	CH78(2480MHz)			
Mode 5	Hopping mode			

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



6 SETUP OF EQUIPMENT UNDER TEST	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For AC Conducted Emission Mode	
AC PLUG	
EUT	
For Radiated Test Cases	
EUT	
For Conducted Test Cases	
Measurement C-1 FUT	
Note: 1. The terrary enterne connector is coldered on the DCD board in order to	
Note: 1. The temporary antenna connector is soldered on the PCB board in order to and this temporary antenna connector is listed in the equipment list.	Senorm conducted tests



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

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	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".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

adiatic		est equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.05.11	2021.05.10	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.08.07	2021.08.06	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.05.11	2021.05.10	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	2020.05.11	2021.05.10	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.20	2021.11.19	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.20	2021.11.19	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13	2021.07.12	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2020.05.11	2023.05.10	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.05.11	2023.05.10	3 year
16	Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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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 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	2020.05.13	2021.05.12	1 year
2	LISN	R&S	ENV216	101313	2020.05.13	2021.05.12	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2020.05.13	2021.05.12	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	2018.04.21	2021.04.20	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2018.04.21	2021.04.20	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2018.04.21	2021.04.20	3 year

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

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

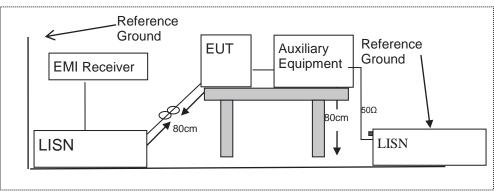
	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

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

7.1.5 Test Results

Pass



7.1.6 Test Results

EUT:	RGB Speaker A21 Lamp	IVIODAI Nama .	LED+9DA21M/SWR GBSPK
Temperature:	21.5℃	Relative Humidity:	41%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode:	Mode 1

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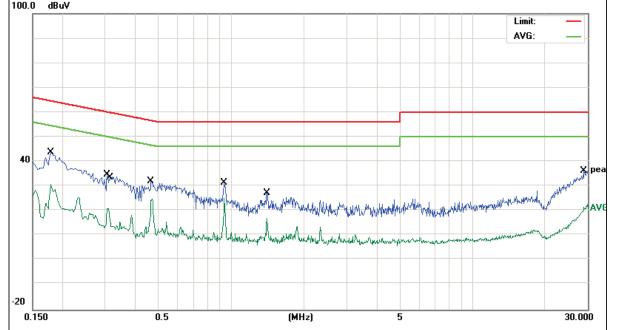
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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerik
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1779	34.28	9.55	43.83	64.58	-20.75	QP
0.1779	21.42	9.55	30.97	54.58	-23.61	AVG
0.3059	25.19	9.54	34.73	60.08	-25.35	QP
0.3099	11.49	9.54	21.03	49.97	-28.94	AVG
0.4660	22.47	9.55	32.02	56.58	-24.56	QP
0.4660	15.22	9.55	24.77	46.58	-21.81	AVG
0.9340	21.78	9.56	31.34	56.00	-24.66	QP
0.9340	15.55	9.56	25.11	46.00	-20.89	AVG
1.4058	17.81	9.56	27.37	56.00	-28.63	QP
1.4058	7.42	9.56	16.98	46.00	-29.02	AVG
29.0500	26.42	9.95	36.37	60.00	-23.63	QP
29.0500	12.01	9.95	21.96	50.00	-28.04	AVG

Remark:

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

100.0 dBuV





EUT:	RGB Speaker A21 Lamp	Model Name	LED+9DA21M/S WRGBSPK
Temperature:	21.5℃	Relative Humidity:	41%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	AC120V/60Hz	Test Mode:	Mode 1

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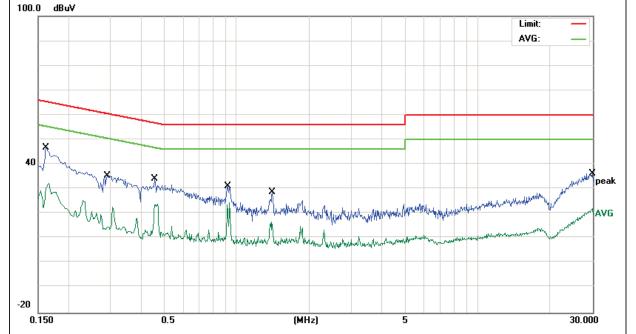
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	37.22	9.55	46.77	65.36	-18.59	QP
0.1620	22.90	9.55	32.45	55.36	-22.91	AVG
0.2900	25.86	9.53	35.39	60.52	-25.13	QP
0.2900	10.88	9.53	20.41	50.52	-30.11	AVG
0.4580	24.68	9.54	34.22	56.73	-22.51	QP
0.4580	14.45	9.54	23.99	46.73	-22.74	AVG
0.9220	21.73	9.55	31.28	56.00	-24.72	QP
0.9220	15.06	9.55	24.61	46.00	-21.39	AVG
1.4060	19.06	9.55	28.61	56.00	-27.39	QP
1.4060	7.22	9.55	16.77	46.00	-29.23	AVG
29.9620	26.38	9.90	36.28	60.00	-23.72	QP
29.9620	12.20	9.90	22.10	50.00	-27.90	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	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	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
Frequency(MHz)	Tield Stieligti (µv/iii)		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)

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

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

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

3. For Frequency 9kHz~30MHz:

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

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

For Frequency above 30MHz:

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

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

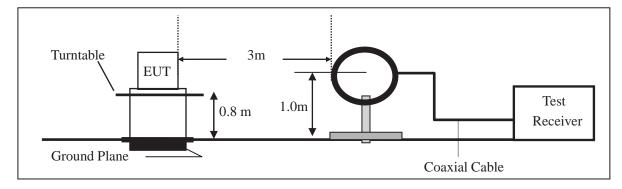


7.2.3 Measuring Instruments

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

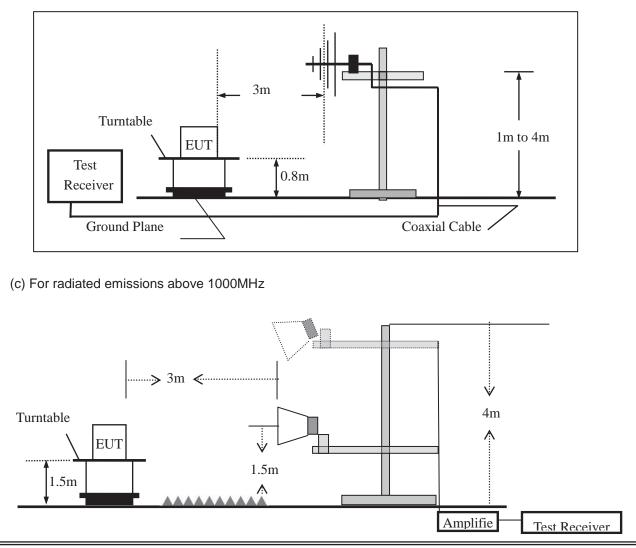
7.2.4 Test Configuration

(a) For radiated emissions below 30MHz



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





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.

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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:

Ose the following spectrum analyzer settings	see the following speetrum 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 / 10Hz 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	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:									
Fred	quency Band (MHz)	Function Resolution bandwidth		Video Bandwidth						
	30 to 1000	QP	120 kHz	300 kHz						
	Peak		1 MHz	1 MHz						
	Above 1000	Average	1 MHz	10 Hz						

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

7.2.6 Test Results

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

EUT:	RGB Speaker A21 Lamp	Model No.:	LED+9DA21M/SWRGBSPK		
Temperature:	20 ℃	Relative Humidity:	48%		
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu		

Freq.	Ant.Pol.	Emission Le	Emission Level(dBuV/m)		Limit 3m(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:

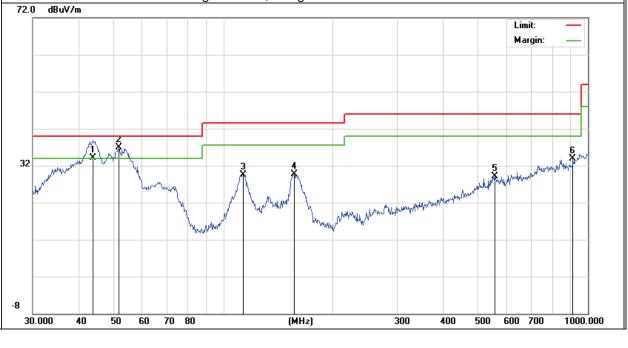
EUT:	RGB Speaker A21 Lamp	IModel Name	LED+9DA21M/SWRGB SPK
Temperature:	24.6 ℃	Relative Humidity:	49%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	AC120V/60Hz		

Polar	Frequency	Meter Reading	Factor	actor Emission Limits Margin		Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	43.9658	22.24	11.96	34.20	40.00	-5.80	QP
V	51.6616	29.04	7.90	36.94	40.00	-3.06	QP
V	113.3163	17.48	12.02	29.50	43.50	-14.00	QP
V	156.4578	18.38	11.42	29.80	43.50	-13.70	QP
V	554.8254	6.70	22.50	29.20	46.00	-16.80	QP
V	909.6667	7.10	26.71	33.81	46.00	-12.19	QP

Remark:

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







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	54.6429	10.63	6.93	17.56	40.00	-22.44	QP
Н	74.1351	9.61	7.24	16.85	40.00	-23.15	QP
Н	99.5281	7.17	10.95	18.12	43.50	-25.38	QP
Н	159.7844	14.11	10.83	24.94	43.50	-18.56	QP
Н	224.5193	15.08	10.89	25.97	46.00	-20.03	QP
Н	547.0977	6.50	22.33	28.83	46.00	-17.17	QP
						Margin: –	
32	Manhahan	Man Man	Construction of the		alger way warry ward ward		
-8 30.00		70 80	(MHz) 30	0 400 500	600 700 1	000.000



UT:	R	GB Spe	aker A21	Lamp	1	Model No.:			.ED+9DA21M VRGBSPK	
emperature:	20	C° C			1	Relative Hun	nidity:	4	8%	
est Mode:	М	ode2/M	ode3/Mod	e4	-	Test By:		Ν	Mary Hu	
Il the modulation	on mode	s have b	een teste	d, and the	worst res	sult was repo	rt as belo	ow:	-	
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)) (dBµV/m)	(dB)			
			Low Chan	nel (2402 l	MHz)(GFS	SK)Above 1G	6			
4804.33	68.94	5.21	35.59	44.30	65.44	74.00	-8.56	Pk	Vertical	
4804.33	43.77	5.21	35.59	44.30	40.27	54.00	-13.73	AV	Vertical	
7206.62	60.31	6.48	36.27	44.60	58.46	74.00	-15.54	Pk	Vertical	
7206.62	43.54	6.48	36.27	44.60	41.69	54.00	-12.31	AV	Vertical	
4804.39	61.00	5.21	35.55	44.30	57.46	74.00	-16.54	Pk	Horizontal	
4804.39	42.34	5.21	35.55	44.30	38.80	54.00	-15.20	AV	Horizontal	
7206.47	61.72	6.48	36.27	44.52	59.95	74.00	-14.05	Pk	Horizontal	
7206.47	43.00	6.48	36.27	44.52	41.23	54.00	-12.77	AV	Horizontal	
			Mid Chan	nel (2441 M	ИHz)(GFS	K)Above 1G	i			
4882.19	65.29	5.21	35.66	44.20	61.96	74.00	-12.04	Pk	Vertical	
4882.19	43.90	5.21	35.66	44.20	40.57	54.00	-13.43	AV	Vertical	
7323.21	62.15	7.10	36.50	44.43	61.32	74.00	-12.68	Pk	Vertical	
7323.21	42.40	7.10	36.50	44.43	41.57	54.00	-12.43	AV	Vertical	
4882.10	61.10	5.21	35.66	44.20	57.77	74.00	-16.23	Pk	Horizontal	
4882.10	41.54	5.21	35.66	44.20	38.21	54.00	-15.79	AV	Horizontal	
7324.56	61.29	7.10	36.50	44.43	60.46	74.00	-13.54	Pk	Horizontal	
7324.56	40.61	7.10	36.50	44.43	39.78	54.00	-14.22	AV	Horizontal	
			High Char	nnel (2480	MHz)(GFS	K) Above 10	3			
4959.38	64.56	5.21	35.52	44.21	61.08	74.00	-12.92	Pk	Vertical	
4959.38	43.63	5.21	35.52	44.21	40.15	54.00	-13.85	AV	Vertical	
7439.72	60.90	7.10	36.53	44.60	59.93	74.00	-14.07	Pk	Vertical	
7439.72	42.02	7.10	36.53	44.60	41.05	54.00	-12.95	AV	Vertical	
4960.39	62.38	5.21	35.52	44.21	58.90	74.00	-15.10	Pk	Horizontal	
4960.39	43.87	5.21	35.52	44.21	40.39	54.00	-13.61	AV	Horizontal	
7440.36	63.00	7.10	36.53	44.60	62.03	74.00	-11.97	Pk	Horizontal	
7440.36	43.73	7.10	36.53	44.60	42.76	54.00	-11.24	AV	Horizontal	

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Certificate #4298.01

Note:

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



Report No.: S21041500201001

Spurious	Emission	in Rest	ricted Ban	d 2310-23	390MHz ar	nd 2483.5-25	500MHz		
EUT:	RGB	Speake	er A21 Lai	np	N	lodel No.:	LED+9	DA21M/SW	RGBSPK
Temperature	: 20 °C					telative lumidity:	48%		
Test Mode:	Mode	2/ Mode	9 4		Т	est By:	Mary Hu	r	
All the modu	ulation mo	des hav	e been tes	sted, and t	the worst r	esult was re	port as be	elow:	
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				1Mbps(GF	SK)- Non-h	opping			
2310.00	56.23	2.97	27.80	43.80	43.20	74	-30.80	Pk	Horizontal
2310.00	44.04	2.97	27.80	43.80	31.01	54	-22.99	AV	Horizontal
2310.00	53.35	2.97	27.80	43.80	40.32	74	-33.68	Pk	Vertical
2310.00	40.58	2.97	27.80	43.80	27.55	54	-26.45	AV	Vertical
2390.00	54.51	3.14	27.21	43.80	41.06	74	-32.94	Pk	Vertical
2390.00	41.41	3.14	27.21	43.80	27.96	54	-26.04	AV	Vertical
2390.00	51.77	3.14	27.21	43.80	38.32	74	-35.68	Pk	Horizontal
2390.00	41.80	3.14	27.21	43.80	28.35	54	-25.65	AV	Horizontal
2483.50	54.77	3.58	27.70	44.00	42.05	74	-31.95	Pk	Vertical
2483.50	43.99	3.58	27.70	44.00	31.27	54	-22.73	AV	Vertical
2483.50	53.01	3.58	27.70	44.00	40.29	74	-33.71	Pk	Horizontal
2483.50	43.18	3.58	27.70	44.00	30.46	54	-23.54	AV	Horizontal
			11	Mbps(GFS	K)- hopping				
2310.00	55.11	2.97	27.80	43.80	42.08	74	-31.92	Pk	Horizontal
2310.00	43.06	2.97	27.80	43.80	30.03	54	-23.97	AV	Horizontal
2310.00	52.12	2.97	27.80	43.80	39.09	74	-34.91	Pk	Vertical
2310.00	43.51	2.97	27.80	43.80	30.48	54	-23.52	AV	Vertical
2390.00	51.55	3.14	27.21	43.80	38.10	74	-35.90	Pk	Vertical
2390.00	44.02	3.14	27.21	43.80	30.57	54	-23.43	AV	Vertical
2390.00	50.05	3.14	27.21	43.80	36.60	74	-37.40	Pk	Horizontal
2390.00	40.44	3.14	27.21	43.80	26.99	54	-27.01	AV	Horizontal
2483.50	53.19	3.58	27.70	44.00	40.47	74	-33.53	Pk	Vertical
2483.50	41.32	3.58	27.70	44.00	28.60	54	-25.40	AV	Vertical
2483.50	51.41	3.58	27.70	44.00	38.69	74	-35.31	Pk	Horizontal
2483.50	42.94	3.58	27.70	44.00	30.22	54	-23.78	AV	Horizontal

ACCREDIT

Certificate #4298.01

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



EUT:		RGB Spe .amp	aker A21	I	Mode	l No.:		LED-	+9DA21N	M/SWRGE	BSPK
Cemperature:	2	0 °C			Relati	ive Humidit	y:	48%			
est Mode:	Ν	lode2/ M	lode4	ŀ	Test I	Зу:		Mary	Hu		
All the modul	ation mod	les have	been teste	ed, a	nd the	e worst res	ult wa	s repo	ort as bel	ow:	
Frequency	Reading Level	Cable Loss	Antenna Factor		amp ctor	Emission Level	Lin	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(d	IB)	(dBµV/m)	(dBµ	IV/m)	(dB)	Туре	
3260	58.88	4.04	29.57	44	.70	47.79	7	'4	-26.21	Pk	Vertical
3260	46.79	4.04	29.57	44	.70	35.70	5	4	-18.30	AV	Vertical
3260	54.52	4.04	29.57	44	.70	43.43	7	'4	-30.57	Pk	Horizonta
3260	44.71	4.04	29.57	44	.70	33.62	5	4	-20.38	AV	Horizonta
3332	61.02	4.26	29.87	44	.40	50.75	7	'4	-23.25	Pk	Vertical
3332	47.73	4.26	29.87	44	.40	37.46	5	4	-16.54	AV	Vertical
3332	64.53	4.26	29.87	44	.40	54.26	7	'4	-19.74	Pk	Horizontal
3332	43.57	4.26	29.87	44	.40	33.30	5	4	-20.70	AV	Horizontal
17797	51.63	10.99	43.95	43	5.50	63.07	7	'4	-10.93	Pk	Vertical
17797	38.99	10.99	43.95	43	5.50	50.43	5	4	-3.57	AV	Vertical
17788	53.92	11.81	43.69	44	.60	64.82	7	'4	-9.18	Pk	Horizontal
17788	35.75	11.81	43.69	44	.60	46.65	5	4	-7.35	AV	Horizontal

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Certificate #4298.01

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 ≥ RBW

Sweep = auto

Detector function = peak Trace = max hold

7.3.6 Test Results

EUT:	RGB Speaker A21 Lamp	Model No.:	LED+9DA21M/SWRGBSPK
Temperature:	20 ℃	Relative Humidity:	48%
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:	RGB Speaker A21 Lamp	Model No.:	LED+9DA21M/SWRGBSPK
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

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

7.5.2 Conformance Limit

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

7.5.3 Measuring Instruments

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel RBW \geq 1MHz VBW \geq RBW Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold Measure the maximum time duration of one single pulse. Set the EUT for DH5, DH3 and DH1 packet transmitting. Measure the maximum time duration of one single pulse.



7.5.6 Test Results

EUT:	RGB Speaker A21 Lamp	Model No.:	LED+9DA21M/SWRGBSPK
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 (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 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) x (0.4 x 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:	RGB Speaker A21 Lamp	Model No.:	LED+9DA21M/SWRGBSPK
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:	RGB Speaker A21 Lamp	Model No.:	LED+9DA21M/SWRGBSPK
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:	RGB Speaker A21 Lamp	Model No.:	LED+9DA21M/SWRGBSPK
Temperature:	20 °C	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 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



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: 1.73 dBi). It comply with the standard requirement.

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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 transmissions over 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.

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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.



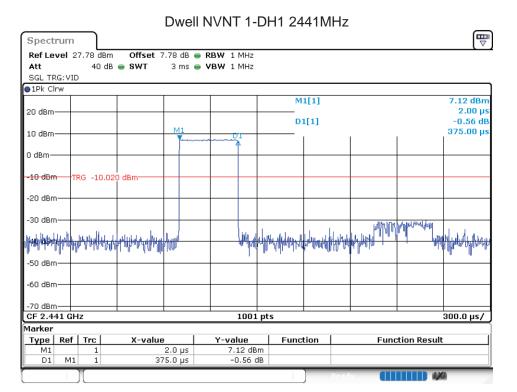
8 TEST RESULTS

8.1 DWELL TIME

••••								
(Condition	Mode	Frequency	Pulse	Total Dwell	Period	Limit	Verdict
			(MHz)	Time (ms)	Time (ms)	Time (ms)	(ms)	
	NVNT	1-DH1	2441	0.375	120	31600	400	Pass
	NVNT	1-DH3	2441	1.62	259.2	31600	400	Pass
	NVNT	1-DH5	2441	2.88	307.2	31600	400	Pass
	NVNT	2-DH1	2441	0.381	121.92	31600	400	Pass
	NVNT	2-DH3	2441	1.63	260.8	31600	400	Pass
	NVNT	2-DH5	2441	2.872	306.347	31600	400	Pass
	NVNT	3-DH1	2441	0.384	122.88	31600	400	Pass
	NVNT	3-DH3	2441	1.63	260.8	31600	400	Pass
	NVNT	3-DH5	2441	2.872	306.347	31600	400	Pass

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Dwell NVNT 1-DH3 2441MHz



Report No.: S21041500201001

			Dwell	NVNT 2	-DI	H1 24	41M	Hz			
Type Re	f Trc 1 1 11 1	X-value 2	9.0 µs .88 ms	Y-value 7.13 d -1.76		Func	tion	_	Fund	tion Result	
Marker					ı pt				• *		
-70 dBm	3Hz			100	1 pt	5					800.0 µs/
-60 dBm—				-	-						
-50 dBm—				-	-						
ndforgfendistan	N, dVr)			+ '	ull ^{iu} l	ppykykykywu)	<u>Maninin</u> i	of Al	Mondadia Mariana Mondadia Mariana	Halley Alland	washing
-30 dBm						، بىن	allore	a 11	n da da	ا المعادية	a contra la
-20 dBm	TRG -20.02	0 dBm									
-10 dBm											
0 dBm											
				Bj							
10 dBm	м1					Di	[1]				-1.76 dB 2.88000 ms
20 dBm				_	_		1[1]				7.13 dBm 8.00 μs
Att SGL TRG:V 1Pk Clrw		● SWT	8 ms 👄	VBW 1 MH2	2						
Spectrun Ref Level	n 27.78 dBm			NVNT 1		H5 24	41M	Hz			
				N 10 10	_			Read			llin llin
	1 1	1	5.0 µs .62 ms	-2.59 0 0.39				_			
Type Re M1		X-value	9 5.0 μs	Y-value -2.59 d	Bm	Func	ion		Fund	tion Result	
CF 2.441 (Marker	GHz			100	1 pt	s					500.0 μs/
-70 dBm											
-60 dBm				_	_						
-50 dBm	v ()			_			Ű.				
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-30 dBm				-	+						
-20 dBm—											
-10 dBm—			Ų.	· · · ·							
0 dBm	TRG -5.020	dBm	บาตางบุณ	ามาณาราวางหุมงาน	my	1					
10 dBm		1								'	
						Di	[1]				0.39 dB 62000 ms
20 dBm						INI.	1[1]				-2.59 dBm 5.00 μs

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SGL TRG:VID 1Pk Clrw]
20 dBm-				м	1[1]			6.25 dBm 2.00 μs
				D	1[1]			-2.64 dB
10 dBm			Armer Pl					381.00 µs
0 dBm	020 dBm		~4					
-10 dBm								
-20 dBm								
-30 dBm								
uthe head and the second se	ALL MANNER	MIN	- Lun	Marchan Inder	Allishand a hal		udd Li Manna In I	NUL AUTOLIN
-50 dBm	Indian and hour	նումի Մ.	μwγ	harn allaffi bl	. di . i e adfine.		1 n a and	Ale of the control of
-60 dBm								
-70 dBm CF 2.441 GHz			100	1 pts		<u> </u>		300.0 μs/
Marker _Type Ref Trc	X-valu		Y-value	- Func	tion	Euro	ction Result	
M1 1		2.0 µs	6.25 d	Bm		Fun	AIOH KESUI	
D1 M1 1	3	381.0 µs	-2.64	ab		489		0
					, Reat			
SGL TRG: VID		7.78 dB 👄 I 5 ms 👄 '	RBW 1 MHz VBW 1 MHz					
Att 40								
Att 40 SGL TRG:VID 1Pk Clrw					1[1]			-3.41 dBm 5.00 μs
Att 40 SGL TRG: VID 1Pk Cirw 20 dBm				M	1[1]			5.00 µs -2.62 dB
Att 40 SGL TRG: VID 9 1Pk Clrw 20 dBm 10 dBm 10 dBm				M			:	5.00 µs
Att 40 SGL TRG: VID 91Pk Clrw 20 dBm 10 dBm 10 dBm 910 dBm	dB e SWT		VBW 1 MHz	M			:::::::::::::::::::::::::::::::::::::::	5.00 µs -2.62 dB
Att 40 SGL TRG: VID 91Pk Clrw 20 dBm 10 dBm 10 dBm 910 dBm	dB • SWT	5 ms 🕳 '	VBW 1 MHz	M				5.00 µs -2.62 dB
Att 40 SGL TRG: VID 91Pk Clrw 20 dBm 10 dBm 10 dBm 910 dBm	dB e SWT	5 ms 🕳 '	VBW 1 MHz	M				5.00 µs -2.62 dB
Att 40 SGL TRG:VID 1Pk Clrw 20 dBm 10 dBm -10 dBm TRG -10 -20 dBm -30 dBm	dB • SWT	5 ms 🕳 '	VBW 1 MHz	D	1[1]			5.00 µs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID 9 1Pk Clrw 20 20 dBm 10 10 dBm 0 0 dBm 10 -10 dBm TRG -10 -20 dBm -20 dBm	dB • SWT	5 ms 🕳 '	VBW 1 MHz	D	1[1]	harter lager fritte		5.00 µs -2.62 dB
Att 40 SGL TRG:VID 1Pk Clrw 20 dBm 10 dBm -10 dBm TRG -10 -20 dBm -30 dBm	dB • SWT	5 ms 🕳 '	VBW 1 MHz	D	1[1]	herster filmsfinsti		5.00 µs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID 9 1Pk Cirw 20 20 dBm 10 10 dBm 0 -10 dBm TRG -10 -20 dBm -30 dBm	dB • SWT	5 ms 🕳 '	VBW 1 MHz	D	1[1]	herstergelegherste		5.00 µs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID 9 1Pk Cirw 20 20 dBm 10 10 dBm 0 -10 dBm TRG -20 dBm -10 -30 dBm -10 -30 dBm -10 -30 dBm -60 dBm	dB • SWT	5 ms 🕳 '	VBW 1 MH2		1[1]	Here ber polar flashe		5.00 µs -2.62 dB 1.63000 ms
Att 40 SGL TRG:VID ● ● 1Pk Cirw 20 20 dBm	dB • SWT	5 ms 🕳 '	VBW 1 MH2	D	1[1]	larsterplasfast		5.00 µs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID 9 9 1Pk Cirw 20 20 dBm 10 10 dBm 70 -20 dBm -10 -30 dBm -10 -30 dBm -10 -50 dBm -50 -60 dBm -70 -70 dBm -27 -70 dBm -27 -70 dBm -70 -70 dBm -70 -70 dBm -70 -70 dBm -70	dB • SWT	5 ms • '	VBW 1 MHz	M D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1[1] 			5.00 μs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID 9 9 1Pk Cirw 20 20 dBm 10 10 dBm 7 -10 dBm TRG -20 dBm -10 -30 dBm -10 -50 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	dB • SWT	5 ms • •	VBW 1 MHz	M D A A A A A A A A A A A A A A A A A A	1[1] 		andra an laterat	5.00 μs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID ● ● 1Pk Cirw 20 20 dBm	dB • SWT	5 ms • '	עשע 1 MHz עייעישייישיין עייעישייישיין עייעישייישיין עייעישייישיין עייעישייישיין עייעישייישייישיין עייעישייישייישיין עייעישייישיישיישיין עייעישייישיישיישיישיישיישיישיישיישיישייש	M D A A A A A A A A A A A A A A A A A A	1[1] 		andra an laterat	5.00 μs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID ● ● 1Pk Cirw 20 20 dBm	dB • SWT	5 ms • '	VBW 1 MH2	M D A A A A A A A A A A A A A A A A A A	1[1]	Fund	andra an laterat	5.00 μs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID ● ● 1Pk Cirw 20 20 dBm	dB • SWT	5 ms • '	VBW 1 MH2	M D A A A A A A A A A A A A A A A A A A	1[1]	Fund	andra an laterat	5.00 μs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID ● ● 1Pk Cirw 20 20 dBm	dB • SWT	5 ms • '	VBW 1 MH2	M D A A A A A A A A A A A A A A A A A A	1[1]	Fund	andra an laterat	5.00 μs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID ● ● 1Pk Cirw 20 20 dBm	dB • SWT	5 ms • '	VBW 1 MH2	M D A A A A A A A A A A A A A A A A A A	1[1]	Fund	andra an laterat	5.00 μs -2.62 dB 1.63000 ms
Att 40 SGL TRG: VID ● ● 1Pk Cirw 20 20 dBm	dB • SWT	5 ms • '	VBW 1 MH2	M D A A A A A A A A A A A A A A A A A A	1[1]	Fund	andra an laterat	5.00 μs -2.62 dB 1.63000 ms

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Type Ref Trc X-value Y-value Function Function Result M1 1 8.0 µs -2.66 dBm -	●1Pk Clrw			M1[1]		-2	.66 dBm
0 d8m 0 d8m 10 d8m	20 dBm			D1[1]			0.36 dB
-10 d8m / 170 -10.020 d8m / 100 - 10.020 d8m / 100 - 10.020 d8m / 100 - 10.020 d8m / 100 - 10 - 100 -	10 dBm					2.8	7200 ms
20 dBm	0 dBm	eheedhanja _e ely _{na} ndaanpe _e rlagie	พมพรแก้งการหมุดหมู่ใน				
-30 dBm	-10 dBm TRG -10.020 dBm						
Mile Interference B00.0 µs/ 50 dBm -0 dBm -0 dBm -0 dBm -70 dBm -0 dBm -0 dBm -0 dBm -70 dBm -0 dBm -0 dBm -0 dBm -70 dBm -0 dBm -0 dBm -0 dBm 01 M1 1 2.8.0 µs -2.66 dBm -0.0100 01 M1 1 2.872 ms 0.36 dB -0.020 Ms Dwell NVNT 3-DH1 2441MHz Spectrum W MI1 1 2.872 ms 0.36 dB -0.0111 -2.2.55 dB Dwell NVNT 3-DH1 2441MHz Spectrum W MI1 0 -2.06 dBm -0.0111 -2.2.55 dB 0 dBm 01[1] -2.2.55 dB 0 dBm 01[1] -2.2.55 dB 0 dBm 01[1] -2.2.55 dB -0 dBm 01[1] -2.2.55 dB -0 dBm 01[1] -2.2.55 dB -0 dBm -0 dBm -0 dBm	-20 dBm						
-50 dBm -50 dBm -60 dBm -20 dBm -60 dBm -20 dBm -60 dBm			61	عاريب بالعا يسل	white the second second	la se ta llia alluat	a test beauty
-60 dBm -70 dBm Type Ref Trc X-value Y-value Function Function Result 01 M1 1 2.872 ms 0.36 dB 01 M1 1 2.872 ms 0.36 dB 0.36 dB 0.1 M1 1 2.872 ms 0.36 dB 0.36 dB 0.30 dB 0.11 3 2.255 dB 0 dBm -10 dB	. 749798540000		- IUHI	มะเห็ฟหารคิริกลุร่านสู่	whatten seelan seelan	accrehtilingt och and b	tre omfantint
-70 dBm B00.0 μs/ GF 2.4+1 GHz 100 μs Ype Ref Trc X-value M1 1 01 M1 1 2.872 ms 0.36 dB Provide							

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SGL TRG:VID 1Pk Clrw								
20 dbm				M1	L[1]			6.22 dBm 5.00 μs
20 dBm				D1	[1]			-2.57 dB
10 dBm	1			∽R ₁ ¹		I	:	1.63000 ms
0 dBm	Investore	panersynseded	(havefalling)	~~~ <u>~</u>				
- 10 dBm - TRG -10	0.020 dBm							
-20 dBm								
-30 dBm	Jidusi			Ballik	andred administrational High	ll.h.shahahaa	และหมายใสแปลเส	Mandlu n. Holmaila b
-50 dBm	r of Allo			0.001.00.140	այիստություն։	AR AR Lot A.	n in de la calenda de la cana a calenda de la calenda d	l alda an an a a dha alb
-50 dBm								
-70 dBm								
CF 2.441 GHz		·	1001	pts				500.0 μs/
Marker	¥		V	F	ion I	F	tion Dear	
TypeRefTrcM11	X-value	e 5.0 μs	Y-value 6.22 dBr	Funct	ion	Fund	tion Result	
D1 M1 1	1	.63 ms	-2.57 d	В				
Spectrum Ref Level 27.78 c Att 40		7.78 dB 👄 R		DH5 24	41MHz			
Ref Level 27.78 d	iBm Offset ∶ dB ● SWT	7.78 dB 👄 R						
Ref Level 27.78 Att 40 SGL TRG: VID		7.78 dB 👄 R	RBW 1 MHz	M1	u[1]			-2.69 dBm 8.00 μs
Ref Level 27.78 c Att 40 SGL TRG:VID PIPK Clrw		7.78 dB 👄 R	RBW 1 MHz	M1				-2.69 dBm
Ref Level 27.78 c Att 40 SGL TRG: VID ● 1Pk Cirw 20 dBm 10 dBm 10 dBm M1		7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz yBW 1 MHz	M1	u[1]			-2.69 dBm 8.00 μs -0.48 dB
Ref Level 27.78 c Att 40 SGL TRG: VID ● 1Pk Clrw 20 dBm 10 dBm	dB • SWT	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz yBW 1 MHz	M1	u[1]		;	-2.69 dBm 8.00 μs -0.48 dB
Ref Level 27.78 c Att 40 SGL TRG: VID ● 1Pk Clrw 20 dBm 10 dBm	Young-rowythelforende	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz yBW 1 MHz	M1	u[1]			-2.69 dBm 8.00 μs -0.48 dB
Ref Level 27.78 c Att 40 SGL TRG: VID IPk Clrw 20 dBm 10 dBm M1 0 dBm TRG -10	Young-rowythelforende	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz /BW 1 MHz	M1	.[1]			-2.69 dBm 8.00 µs -0.48 dB 2.87200 ms
Ref Level 27.78 c Att 40 SGL TRG: VID ● 1Pk Clrw 20 dBm 10 dBm 0 dBm 0 dBm M1 -10 dBm TRG -10 -20 dBm -10 dBm	Young-rowythelforende	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz /BW 1 MHz	M1	.[1]			-2.69 dBm 8.00 μs -0.48 dB
Ref Level 27.78 c Att 40 SGL TRG: VID ● 1Pk Cirw 20 dBm 20 dBm 10 dBm 0 dBm M1 -20 dBm TRG -10 -20 dBm -10 dBm -30 dBm -50 dBm	Young-rowythelforende	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz /BW 1 MHz	M1	.[1]			-2.69 dBm 8.00 µs -0.48 dB 2.87200 ms
Ref Level 27.78 c Att 40 SGL TRG: VID IPk Clrw 20 dBm 10 dBm M1 0 dBm TRG -10 -20 dBm -10 dBm -30 dBm -10 -50 dBm -60 dBm	Young-rowythelforende	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz /BW 1 MHz	M1	.[1]			-2.69 dBm 8.00 µs -0.48 dB 2.87200 ms
Ref Level 27.78 c Att 40 SGL TRG: VID 10 I 1Pk Clrw 20 dBm 10 dBm M1 0 dBm TRG -10 -10 dBm TRG -10 -20 dBm -10 -30 dBm -10 -50 dBm -60 dBm	Young-rowythelforende	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz /BW 1 MHz	 D1 	.[1]			-2.69 dBm 8.00 µs -0.48 dB 2.87200 ms
Ref Level 27.78 c Att 40 SGL TRG: VID IPk Clrw 20 dBm 10 dBm M1 0 dBm TRG -10 -10 dBm TRG -10 -20 dBm -10 dBm -50 dBm -50 dBm	Young-rowythelforende	7.78 dB 🖷 R 8 ms 🖷 V	RBW 1 MHz /BW 1 MHz	 D1 	.[1]			-2.69 dBm 8.00 µs -0.48 dB 2.87200 ms
Ref Level 27.78 c Att 40 SGL TRG: VID ● 1Pk Cirw 20 dBm 10 dBm M1 0 dBm TRG -10 -10 dBm TRG -11 -20 dBm -10 -30 dBm -10 -50 dBm -50 dBm -60 dBm -60 dBm -70 dBm CF 2.441 GHz	B SWT	7.78 dB R 8 ms V	RBW 1 MHz /BW 1 MHz	M1 D1	1[1] .[1]	paptor, Lipsailled a. [-2.69 dBm 8.00 µs -0.48 dB 2.87200 ms

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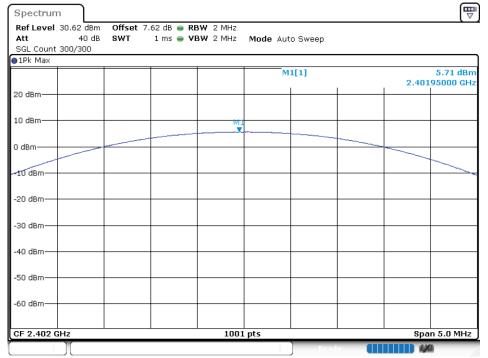


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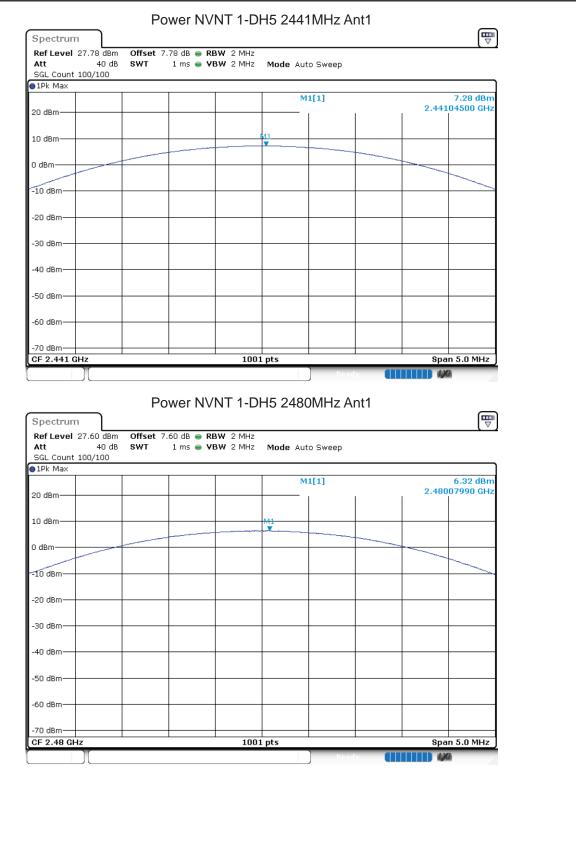
8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	5.71	30	Pass
NVNT	1-DH5	2441	Ant 1	7.28	30	Pass
NVNT	1-DH5	2480	Ant 1	6.32	30	Pass
NVNT	2-DH5	2402	Ant 1	5.31	20.97	Pass
NVNT	2-DH5	2441	Ant 1	6.45	20.97	Pass
NVNT	2-DH5	2480	Ant 1	5.5	20.97	Pass
NVNT	3-DH5	2402	Ant 1	5.30	20.97	Pass
NVNT	3-DH5	2441	Ant 1	6.38	20.97	Pass
NVNT	3-DH5	2480	Ant 1	5.47	20.97	Pass

Power NVNT 1-DH5 2402MHz Ant1

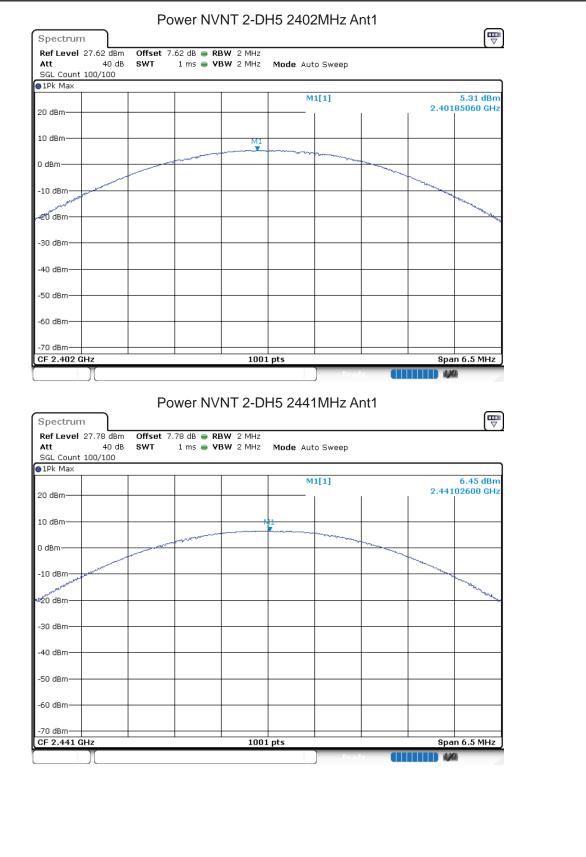






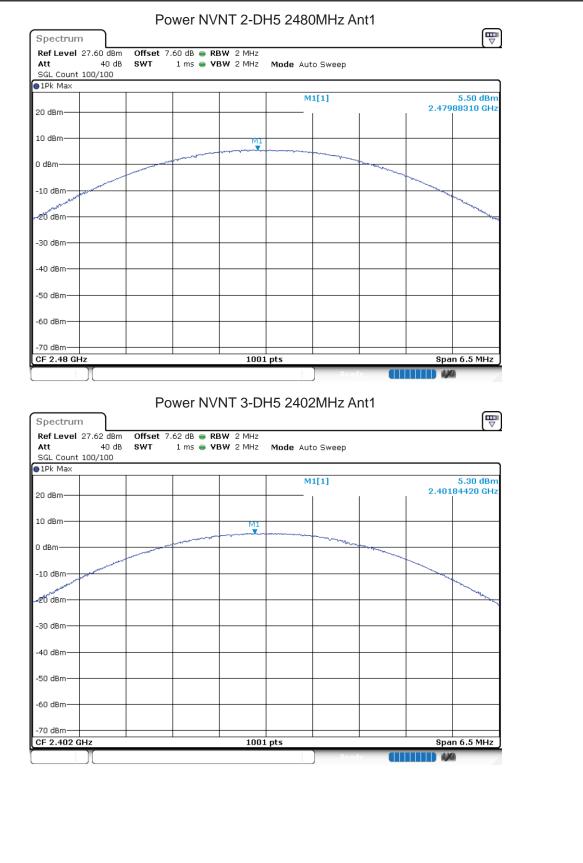
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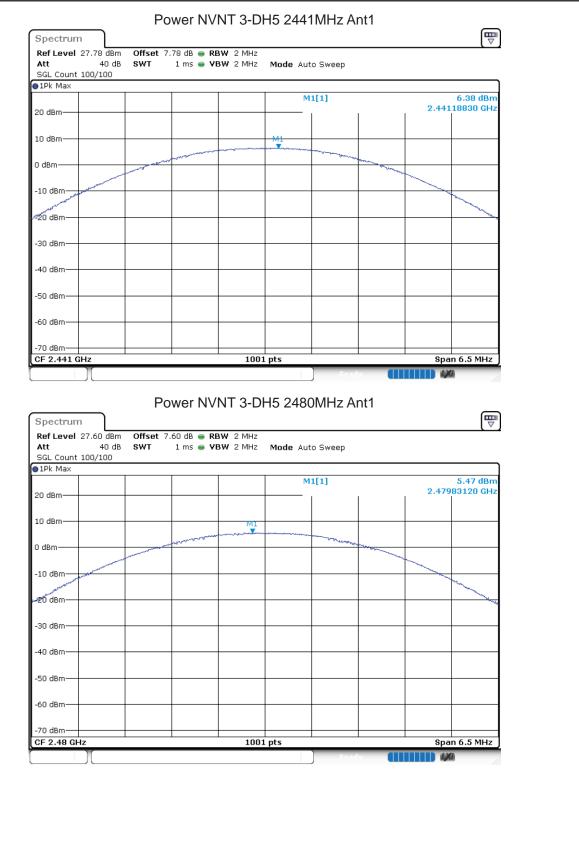
ACCREDITED





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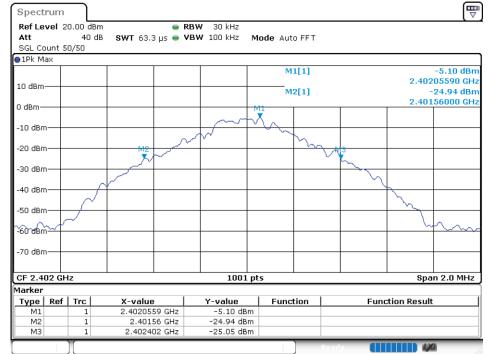
8.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency	Antenna	-20 dB	Verdict
		(MHz)		Bandwidth	
				(MHz)	
NVNT	1-DH5	2402	Ant 1	0.842	Pass
NVNT	1-DH5	2441	Ant 1	0.86	Pass
NVNT	1-DH5	2480	Ant 1	0.862	Pass
NVNT	2-DH5	2402	Ant 1	1.264	Pass
NVNT	2-DH5	2441	Ant 1	1.254	Pass
NVNT	2-DH5	2480	Ant 1	1.254	Pass
NVNT	3-DH5	2402	Ant 1	1.254	Pass
NVNT	3-DH5	2441	Ant 1	1.25	Pass
NVNT	3-DH5	2480	Ant 1	1.25	Pass

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-20 dB BW NVNT 1-DH5 2402MHz Ant1

















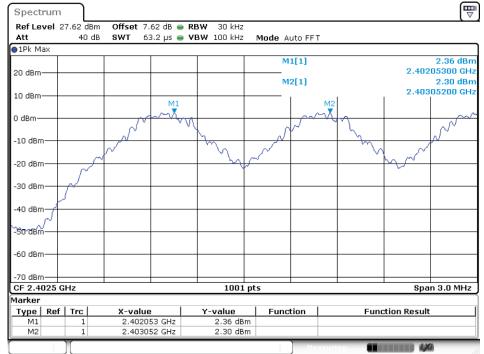




8.4 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
		(MHz)	(MHz)	(MHz)	(MHz)	
NVNT	1-DH5	2402.053	2403.052	0.999	0.842	Pass
NVNT	1-DH5	2441.158	2442.16	1.002	0.86	Pass
NVNT	1-DH5	2478.972	2479.971	0.999	0.862	Pass
NVNT	2-DH5	2402.158	2403.16	1.002	0.843	Pass
NVNT	2-DH5	2441.158	2442.16	1.002	0.836	Pass
NVNT	2-DH5	2479.158	2480.16	1.002	0.836	Pass
NVNT	3-DH5	2402.158	2403.157	0.999	0.836	Pass
NVNT	3-DH5	2441.158	2442.157	0.999	0.833	Pass
NVNT	3-DH5	2479.158	2480.157	0.999	0.833	Pass

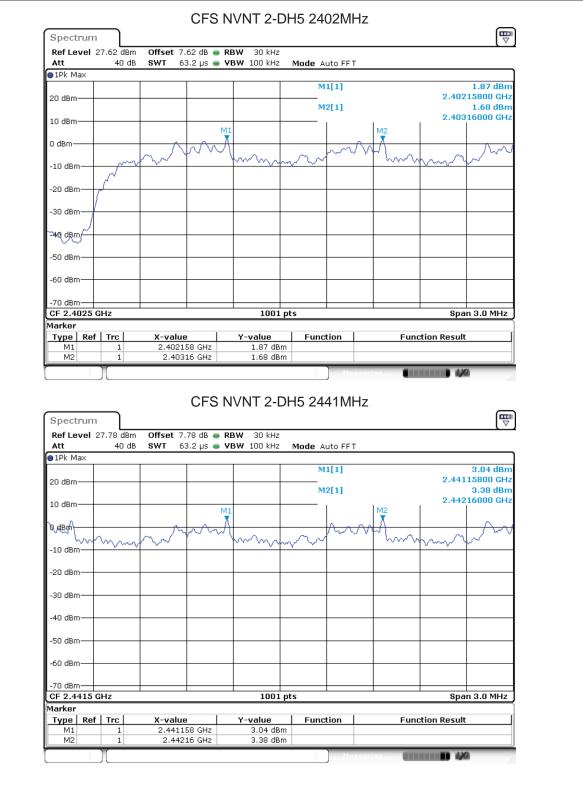
CFS NVNT 1-DH5 2402MHz



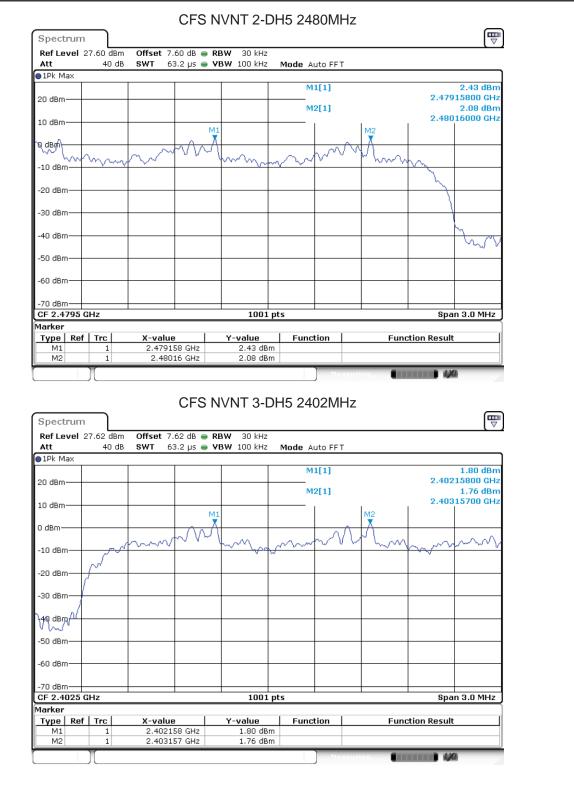




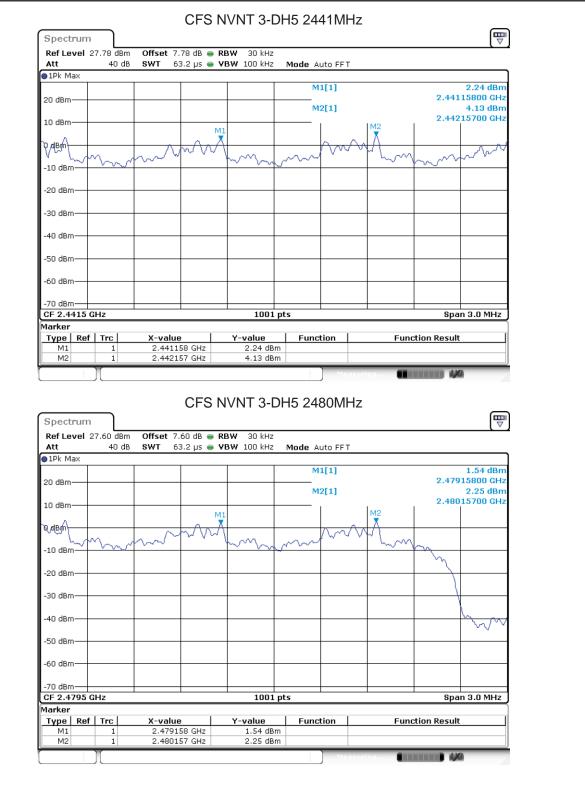














ilac-N

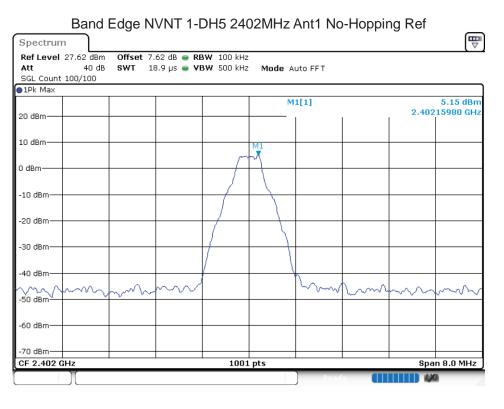
8.5 NUMBER OF HOPPING CHANNEL Condition Mode Hopping Number Limit Verdict **NVNT** 1-DH5 Pass 79 15 Hopping No. NVNT 1-DH5 2402MHz Spectrum Offset 7.62 dB 🖷 RBW 100 kHz Ref Level 27.62 dBm 40 dB 1 ms 🖷 VBW 300 kHz Att SWT Mode Auto Sweep SGL Count 5000/5000 ●1Pk Max M1[1] 4.85 dBm 2.4018370 GHz 20 dBm M2[1] 5.63 dBm 2.4802435₄6Hz <u>ា</u>លៃdBm A fi A n o ABAA 20 dBm 80 dBm 40 dBm L. -50 dBm -60 dBm -70 dBm Start 2.4 GHz 1001 pts Stop 2.4835 GHz Marker Type Ref Trc Y-value 4.85 dBm Function Function Result 2.401837 GHz M1 1 1 M2 2.4802435 GHz 5.63 dBm

ACCREDITED



8.6 BAND EDGE

0.0 DAND LI	DOL						
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH5	2402	Ant 1	No-Hopping	-46.5	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-44.85	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-47.75	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-49.52	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-44.55	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-44.96	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-44.93	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-48.14	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-45.91	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-45.54	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-48.31	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-47.27	-20	Pass





Spectrum Ref Level 27 Att SGL Count 10	40 dB			RBW 100 kH: /BW 500 kH:		Auto FFT			
IPk Max	0/100								
					M	1[1]			4.70 dBm
20 dBm					M	2[1]			195000 GHz -46.18 dBm
10 dBm							1		
0 dBm									
-10 dBm	14.040	40							
-20 dBm	-14.849	asm							
-30 dBm									
-40 dBm				M4					
-40 abrill	maline	montalian	whomephartener	windulation	aled marker all be	1 por Mathradian	-multiple determine	M3 60%n7(14)1/11/11/11/11/11/11/11/11/11/11/11/11/1	M2 Mulica yat
-50 dBm		an dimenting			i waterin i Wa	- 1 · • • • • • • • • • • • • • • • • • •	7-04	Y	
-60 dBm									
-70 dBm									
Start 2.306 G	Hz			1001	pts			Stop	2.406 GHz
Marker	Tun	V ···-1		V	1	N 1]
Type Ref	1	X-value 2.4019	95 GHz	<u>Y-value</u> 4.70 dB	Funct	lion	Func	tion Result	<u> </u>
M2	1	2	.4 GHz	-46.18 dB	m				
M3 M4	1		39 GHz 08 GHz	-46.42 dB					
TEINI	-	2.00		41.50 00					
Spectrum				/NT 1-D	H5 240	2MHz A	nt1 Hop	oping R	ef
Ban Spectrum Ref Level 27 Att SGL Count 16	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	/NT 1-D BW 100 kHz BW 300 kHz			nt1 Hop	oping R	
Spectrum Ref Level 27 Att SGL Count 16	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz			ant1 Hop	oping R	
Spectrum Ref Level 27 Att SGL Count 16	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A		ant1 Hop		₩
Spectrum Ref Level 27 Att SGL Count 16	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT	ant1 Hop		
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			₩
Spectrum Ref Level 27 Att SGL Count 16 1Pk Max	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT	M1 Hop		₩
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			₩
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			₩
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm - 10 dBm - 10 dBm	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			₩
Spectrum Ref Level 27 Att SGL Count 16 1Pk Max 20 dBm 10 dBm 0 dBm	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			4.84 dBm 399000 GHz
Spectrum Ref Level 27 Att SGL Count 16 1Pk Max 20 dBm 10 dBm -10 dBm	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			4.84 dBm 399000 GHz
Spectrum Ref Level 27 Att SGL Count 16 1Pk Max 20 dBm 10 dBm - -10 dBm - -20 dBm - -30 dBm -	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			4.84 dBm 399000 GHz
Spectrum Ref Level 27 Att SGL Count 16 1Pk Max 20 dBm 10 dBm 10 dBm - - -10 dBm - - -20 dBm - -	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			4.84 dBm 399000 GHz
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm 10 dBm • 10 dBm - - • -10 dBm - - • -20 dBm - -	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			4.84 dBm 399000 GHz
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			4.84 dBm 399000 GHz
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm 10 10 dBm - 0 dBm - -10 dBm -	.62 dBm 40 dB	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode A	uto FFT			4.84 dBm 399000 GHz
Spectrum Ref Level 27 Att SGL Count 16 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	.62 dBm 40 dB 00/1600	Offset 7.	62 dB 🖷 RI	BW 100 kHz	Mode An	uto FFT		2.40:	4.84 dBm 399000 GHz



SGL Count 1Pk Max	40 dB t 1200/1200			VBW 300 kHz					
					м	1[1]			5.10 dBm
20 dBm					м	2[1]			215000 GHz -44.52 dBm
10 dBm						1	I	2.400	DOOOO 0/ GHz
0 dBm									
-10 dBm—	D1 -15.160	dBm							<u> </u>
-20 dBm—	01 10/100								U
-30 dBm—									
-40 dBm	mmmmum	Andre war	mound	M4		. Bootdowne an	Munganno	M3 whilly The patrons	M2 Wayner
-50 dBm—	and an Adam	and an American			ana and and an	- for the state of	anna haaraa	an martine and	- and handle
-60 dBm—									
-70 dBm—									
Start 2.30 Marker	l6 GHz			1001	pts			Stop	2.406 GHz
Type Re		X-value		Y-value	Func	tion	Fun	ction Result	t d
M1 M2	1		15 GHz .4 GHz	5.10 dBr -44.52 dBr					
M3	1		39 GHz 95 GHz	-45.03 dBr -40.01 dBr					
M4	1	2.34	20 0112						
M4 Spectrur Ref Level Att	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248	30MHz /		o-Hoppi	ng Ref	
M4 Spectrur Ref Level	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248	30MHz /		dx 🚺 o-Hoppi	ng Ref	
M4 Spectrur Ref Level Att SGL Count ● 1Pk Max	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248	30MHz / Mode A		o-Hoppi		5.33 dBm
M4 Spectrur Ref Level Att SGL Count	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248	30MHz / Mode A	uto FFT	o-Hoppi		
M4 Spectrur Ref Level Att SGL Count • 1Pk Max	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	30MHz / Mode A	uto FFT	o-Hoppi		5.33 dBm
M4 Spectrur Ref Level Att SGL Count IPk Max 20 dBm 10 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT	o-Hoppi		5.33 dBm
M4 Spectrur Ref Level Att SGL Count IPk Max 20 dBm-	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT	o-Hoppi		5.33 dBm
M4 Spectrur Ref Level Att SGL Count IPk Max 20 dBm 10 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count SGL Count I Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT	o-Hoppi		5.33 dBm
M4 Spectrur Ref Level Att SGL Count SGL Count I Pk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count SGL Count I Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count SGL Count I Pk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count • 1Pk Max 20 dBm • 10 dBm • 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count SGL Count O dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count • 1Pk Max 20 dBm • 10 dBm • 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count • 1Pk Max 20 dBm • 10 dBm • 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm	Band 1 27.60 dBm 40 dB	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT			5.33 dBm
M4 Spectrur Ref Level Att SGL Count PIPK Max 20 dBm	Band 1 27.60 dBm 40 dB 1 100/100	Edge N	VNT 1-	-DH5 248 RBW 100 kHz VBW 300 kHz	BOMHZ A	uto FFT		2.480	5.33 dBm



Spectrum									
Ref Level 3 Att SGL Count 3	40 dB			RBW 100 kH VBW 300 kH		Auto FFT			
1Pk Max	100/100								
20 d0					м	1[1]		0.400	5.34 dBm
20 dBm					м	2[1]			05000 GHz 46.19 dBm
						1			50000 GHz
) d8m									
10 dBm									
	D1 -14.668	dBm							
20 dBm									
-30 dBm									
40 dBm	at han a second	M4	L. Powtika	wheelperspectrum				. Mulling	
50 dBm	WHO-AND MY MARY	<i>୰</i> ଌ୵୰ୄୄୗ ୖ ୶ୄ୷୶୶ୠ୶ୠ	and the stand	man have been a presention	pplity or more light	manager	nother to the tool of the test of	MAR. an ando	aller of the second
-60 dBm									
70 dBm —— Start 2.476	GHz			1001	pts	1		Stop	2.576 GHz
larker									
Type Ref M1	1 Trc	X-value 2.4800	9 D5 GHz	<u>Y-value</u> 5.34 de	Func	tion	Fund	tion Result	
M2	1	2.483	35 GHz	-46.19 dE	im				
M3	1		.5 GHz	-46.32 dE					
M4	1		94 GHZ	-42.43 QE					
M4 Ba Spectrum		ge(Hopp		-42.43 de	0H5 248) Prov 0MHz A	Ant1 Hop	oping R	ef
Ba Spectrum Ref Level 3 Att	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N		0H5 248		Ant1 Hop	oping R	
Ba Spectrum Ref Level 3 Att SGL Count 6	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop	oping R	
Ba Spectrum Ref Level 3 Att SGL Count 6 1Pk Max	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A		Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 6 1Pk Max	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		
Ba Spectrum Ref Level 3 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 4 SGL Count 4 SGL Count 4 20 dBm L0 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 1 SGL Count 1 DIPk Max 20 dBm 10 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 1 1Pk Max 20 dBm 10 dBm 10 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 6 1Pk Max 20 dBm 10 dBm 10 dBm 20 dBm 20 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 6 1Pk Max 20 dBm 10 dBm 10 dBm 20 dBm 20 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 6 1Pk Max 20 dBm 10 dBm 10 dBm 20 dBm 30 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count ()1Pk Max 20 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count ()1Pk Max 20 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 1 1Pk Max 20 dBm 10 dBm 10 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 1 1Pk Max 20 dBm 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm 40 dBm 40 dBm 60 dBm	and Edg 27.60 dBm 40 dB	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ ▼
Ba Spectrum Ref Level 3 Att SGL Count 1 1Pk Max 20 dBm 10 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 50 dBm	and Edg 27.60 dBm 40 dB 8000/8000	ge(Hopp offset 7.	Ding) N	NVNT 1-D	0H5 248	uto FFT	Ant1 Hop	2.476	₩ ▼



Spectrum									
Ref Level 2				RBW 100 kHz					
Att SGL Count 1	40 dB	SWT 23	27.5 µs 😑	VBW 300 kHz	Mode .	Auto FFT			
●1Pk Max	000/1000								
					М	1[1]			6.16 dBm
20 dBm									605000 GHz
10 dBm					M	2[1]			-44.75 dBm
						I	1	2.48	350000 GHz
))dBm									
-10 dBm									
D	1 -13,156	dBm							
-20 cBm									
-30 dBm							_		
	M4								
-40 dBrint2	rulinen how	M3 monthermatic	windowner	Mannahorny	wanture	Morenal	-ALHANNAMANALAN	and the second	hormondule
-50 dBm	-								
-60 dBm									
-70 dBm	CU 2			1001	ntc			01.0	2 576 011-
Start 2.476 Marker	GHŻ			1001	μις			stop	2.576 GHz
Type Ref	Trc	X-value	e	Y-value	Func	tion	Fun	ction Resu	lt l
M1	1	2.476	05 GHz	6.16 dBr	n				
M2 M3	1		35 GHz 2.5 GHz	-44.75 dBr -45.15 dBr					
M4	1		86 GHz	-42.68 dBr					
						<u> </u>			
Spectrum Ref Level 2	7.62 dBm	Offset 7	.62 dB 🔵 F	-DH5 240			lo-Hoppi	ng Ref	
-	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F				adv lo-Hoppi	ng Ref	
Ref Level 2 Att	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT	lo-Hoppi	ng Ref	
Ref Level 2 Att SGL Count 1 1Pk Max	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A		lo-Hoppi		4.15 dBm
Ref Level 2 Att SGL Count 1 1Pk Max	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT	lo-Hoppi		
Ref Level 2 Att SGL Count 1 1Pk Max 20 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT	lo-Hoppi		4.15 dBm
Ref Level 2 Att SGL Count 1 1Pk Max	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT	lo-Hoppi		4.15 dBm
Ref Level 2 Att SGL Count 1 1Pk Max 20 dBm 10 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 1Pk Max 20 dBm 10 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 SGL Count 1 1Pk Max 20 dBm 10 dBm 10 dBm 0 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 1Pk Max 20 dBm 10 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 SGL Count 1 1Pk Max 20 dBm 10 dBm 10 dBm 0 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 PIPk Max 20 dBm 10 dBm 0 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 PIPk Max 20 dBm 10 dBm 0 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 10 dBm 0 dBm -10 dBm - - -20 dBm - -	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 SGL Count 1 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm - - -20 dBm - - -30 dBm - - -40 dBm - -	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 SGL Count 1 IPk Max 20 dBm 10 dBm 0 -10 dBm - -20 dBm - -30 dBm - -40 dBm - -60 dBm -	7.62 dBm 40 dB	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT			4.15 dBm
Ref Level 2 Att SGL Count 1 SGL Count 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm - - 0 -20 dBm - - - -30 dBm - - - -50 dBm - - - -60 dBm - - - -	7.62 dBm 40 dB 00/100	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT		2.40	4.15 dBm 203200 GHz
Ref Level 2 Att SGL Count 1 SGL Count 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm - - 0 -20 dBm - - - -30 dBm - - - -50 dBm - - - -60 dBm - - - -	7.62 dBm 40 dB 00/100	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT		2.40	4.15 dBm 203200 GHz
Ref Level 2 Att SGL Count 1 SGL Count 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm	7.62 dBm 40 dB 00/100	Offset 7	.62 dB 🔵 F	RBW 100 kHz	Mode A	uto FFT		2.40	4.15 dBm 203200 GHz



Ref Level 27.62 dBi Att 40 d SGL Count 100/100		● RBW 100 kHz ● VBW 300 kHz ♪	Mode Auto FFT		
●1Pk Max					
20 dBm			M1[1]		3.06 dBm 2.40195000 GHz
			M2[1]		-43.67 dBm
10 dBm				1 1	2.40000000 GHz
0 dBm					1
-10 dBm					
-20 dBm	16 dBm				
-30 dBm					
-40 dBm	M4				Ma
monderation	un market margarelly	Umandely and a market of the second states of the s	mulphyphyphybrow	www.whitehound	intervisionation will
-50 dBm					
-60 dBm	+ +			+	
-70 dBm					
Start 2.306 GHz Marker		1001 pts			Stop 2.406 GHz
Marker Type Ref Trc	X-value	Y-value	Function	Function	Result
M1 1	2.40195 GHz	3.06 dBm			
M2 1	2.4 GHz 2.39 GHz				
		TJ, 12 UDII			
Spectrum	2.3409 GHz dge(Hopping)	NVNT 2-DH5	2402MHz	Ant1 Hoppir	ng Ref
M4 1 Band Ec Spectrum Ref Level 27.62 dBr Att 40 d SGL Count 8000/800	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	2402MHz	Ant1 Hoppir	
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT	Ant1 Hoppir	
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 1Pk Max	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5		dv (Ant1 Hoppir	
M4 1 Band Ec Spectrum Ref Level 27.62 dBr Att 40 d SGL Count 8000/800	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT	dy Ant1 Hoppir	4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 • 1Pk Max	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 1Pk Max 20 dBm 10 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT	Ant1 Hoppir	4.41 dBm
M4 1 Band Ed Spectrum Ref Level 27.62 dBl Att 40 d SGL Count 8000/800 • 1Pk Max 20 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 1Pk Max 20 dBm 10 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 IPk Max 20 dBm 10 dBm -10 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 11Pk Max 20 dBm 10 dBm 0 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 IPk Max 20 dBm 10 dBm -10 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 ID dBm 10 dBm -10 dBm -20 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 ● 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 ID dBm 10 dBm -10 dBm -20 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 40 d SGL Count 8000/800 ● 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm
M4 1 Band Ec Spectrum Ref Level 27.62 dBi Att 400 SGL Count 8000/800 •1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	2.3409 GHz dge(Hopping) m Offset 7.62 dB B SWT 18.9 µs	NVNT 2-DH5	ode Auto FFT		4.41 dBm



Att SGL Count	27.62 dBm 40 dB 1000/1000			XBW 100 kHz /BW 300 kHz		Auto FFT			
●1Pk Max	1	1	1	г	M	1[1]			4.90 dBm
20 dBm									415000 GHz
10 dBm					M:	2[1]			-44.73 dBm 000000 GHlz
0 dBm									Martin
-10 dBm—	D1 -15.589	dBm							
-20 dBm—	DI -13.389	ubiii							
-30 dBm—			M4				-		
-40 dBm	anon when the state	annor water	Prophy links Whiter	whenter	in the second second	all solution by	ununutur	M3 many phone in	Ma www.pwa
-50 dBm—								-U- +	M
-60 dBm—									
-70 dBm	6 042			1001	ate			Dt-arr	2 405 011-
Start 2.30 Marker	0 GH2			1001	115			stop	2.406 GHz
Type Re M1	f Trc	X-value	9 15 GHz	Y-value 4.90 dBm	Funct	tion	Fund	tion Resul	t
	1		2.4 GHz	-44.73 dBm	1				
M2				-45.01 dBm	n (
M2 M3 M4	1		39 GHz 97 GHz	-40.55 dBm	1				
M3 M4 Spectrur Ref Level	Band n 27.60 dBm	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz	0MHz /		lo-Hoppii	ng Ref	
M3 M4 Spectrur Ref Level Att SGL Count	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm	0MHz /		lo-Hoppin	ng Ref	
M3 M4 Spectrur Ref Level Att SGL Count	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz	OMHZ / Mode Au	uto FFT	lo-Hoppin	ng Ref	
M3 M4 Spectrur Ref Level Att SGL Count 1Pk Max	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz	OMHZ / Mode Au		lo-Hoppin		2.08 dBm 011990 GHz
M3 M4 Spectrur Ref Level Att SGL Count	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT	lo-Hoppin		2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count • 1Pk Max 20 dBm-	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode Au	uto FFT	lo-Hoppin		2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- 0 dBm-	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT	lo-Hoppin		2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- -10 dBm-	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT	IO-Hoppin		2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- 0 dBm-	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT	lo-Hoppin		2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- -10 dBm-	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT			2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz VNT 2-1 60 dB • R	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT			2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count I C dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT			2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT			2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count SGL Count 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm	Band n 27.60 dBm 40 dB	2.33 Edge N Offset 7.	97 GHz	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode At	uto FFT			2.08 dBm
M3 M4 Spectrur Ref Level Att SGL Count SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Band n 27.60 dBm 40 dB 100/100	2.33 Edge N Offset 7.	97 GHz	-40.55 dBm DH5 248 BW 100 kHz BW 300 kHz	OMHz / Mode At	uto FFT		2.480	2.08 dBm



Ref Level Att SGL Count	40 dB			BW 100 kH 'BW 300 kH		Auto FFT			
●1Pk Max						1[1]			0.47 db
20 dBm					M	1[1]		2.479	3.47 dBm 95000 GHz
10 <mark>.d</mark> 8m					м	2[1]			44.54 dBm
Y								2.483	50000 GHz
0 dBm									
-10 cBm									
-20 dBm	D1 -17.915	dBm							
-30 dBm									
		M4							
-40 diamiz-	the way and	WWWWWWWWW	what really any	Mardon	سليرليهمالوالس	William	why por you have	Mumburn	hyperteland
-50 dBm					r · · 1			1.	
-60 dBm									
-70 dBm									
Start 2.47	5 GHz			1001	pts			Stop	2.576 GHz
Marker Type _ Ref	f Trc	X-value	.	Y-value	Func	tion	Fund	tion Result	: 1
M1 M2	1	2.4799	95 GHz	3.47 dB	m				
	1		35 GHz	-44.54 dB -45.36 dB					
M3	1	2							
M3 M4 Ba Spectrum Ref Level		2.499 ge(Hopp offset 7.	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	H5 248		Ant1 Ho	oping R	ef
M3 M4 Spectrum Ref Level Att SGL Count	1 and Edg 27.60 dBm 40 dB	2.499 ge(Hopp offset 7.	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	H5 248		Ant1 Hop	pping R	
M3 M4 Barrier Barrier	1 and Edg 27.60 dBm 40 dB	2.499 ge(Hopp offset 7.	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A		Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count	1 and Edg 27.60 dBm 40 dB	2.499 ge(Hopp offset 7.	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Hop		
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max	1 and Edg 27.60 dBm 40 dB	2.499 ge(Hopp offset 7.	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Hop		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT	Ant1 Ho		₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT			₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT			₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT			₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count IVK Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT			₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count INK Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm	1 and Edg 27.60 dBm 40 dB	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	0H5 248 Mode A	uto FFT			₩ 5.68 dBm
M3 M4 Spectrum Ref Level Att SGL Count •10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm	1 27.60 dBm 40 dB 8000/8000	2.490 ge(Hopp Offset 7. SWT 10	81 GHz Ding) N\ 60 dB ● RE	-42.86 dB	Mode A	uto FFT		2.478	₩ 5.68 dBm



Spectrum									
Ref Level 2				RBW 100 kHz					
Att	40 dB	SWT 2	27.5 µs 😑	VBW 300 kHz	Mode .	Auto FFT			
SGL Count 1 1Pk Max	000/1000								
TEK Max					м	1[1]			4.57 dBm
20 dBm						1[1]		2.480	015000 GHz
					M	2[1]			-43.50 dBm
10 dBm			<u> </u>					2.48	350000 GHz
diden									
levella.									
-10 dBm		10					+		
-20 dBm	1 -14.319	JOIN							
20 00									
-30 dBm									
-40 dBM2		M4							
- apple to	www.rulum	whenter	month	Ner announder the	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	lunnaryther	not water the gastrow	undure marchen	mprover when
-50 dBm								+	
60 d0									
-60 dBm									
-70 dBm									
Start 2.476	GHz			1001	pts			Stop	2.576 GHz
Marker]
Type Ref		X-valu		Y-value	Func	tion	Fun	iction Resul	t
M1 M2	1		015 GHz 035 GHz	4.57 dBn -43.50 dBn					
M3	1		2.5 GHz	-44.67 dBn					
M4	1	2.49	982 GHz	-42.46 dBn	1				
Spectrum Ref Level 2				-DH5 240	2MHz .	Ant1 N	o-Hoppi	ing Ref	Ē
Spectrum Ref Level 2 Att	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz . Mode A		o-Hoppi	ing Ref	Ţ
Spectrum Ref Level 2 Att SGL Count 3	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz			o-Hoppi	ing Ref	 ▽
Spectrum Ref Level 2 Att	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz	Mode A	uto FFT	o-Hoppi	ing Ref	
Spectrum Ref Level 2 Att SGL Count 3 1Pk Max	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz	Mode A		o-Hoppi		4.62 dBm 200000 GHz
Spectrum Ref Level 2 Att SGL Count 3	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz	Mode A	uto FFT	o-Hoppi		4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3/ 1Pk Max 20 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	o-Hoppi		4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 1Pk Max	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz	Mode A	uto FFT	o-Hoppi		4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3/ 1Pk Max 20 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	o-Hoppi		4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 1Pk Max 20 dBm 10 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 1Pk Max 20 dBm 10 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 PPk Max 20 dBm 10 dBm 0 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 PPk Max 20 dBm 10 dBm 0 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 1Pk Max 20 dBm 10 dBm -10 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 1Pk Max 20 dBm 10 dBm -10 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3 PPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	7.62 dBm 40 dB	Offset 7	.62 dB 😑 I	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3i • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	7.62 dBm 40 dB	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	o-Hoppi		4.62 dBm
Spectrum Ref Level 2 Att SGL Count 30 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm	7.62 dBm 40 dB	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3i • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	7.62 dBm 40 dB	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	o-Hoppi		4.62 dBm
Spectrum Ref Level 2 Att SGL Count 30 ● 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	7.62 dBm 40 dB	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 30 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm	7.62 dBm 40 dB	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 30 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -60 dBm	7.62 dBm 40 dB	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			4.62 dBm
Spectrum Ref Level 2 Att SGL Count 3i • IPK Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	7.62 dBm 40 dB 00/300	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz	Mode A	uto FFT		2.40:	4.62 dBm 200000 GHz
Spectrum Ref Level 2 Att SGL Count 30 PPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -60 dBm	7.62 dBm 40 dB 00/300	Offset 7	.62 dB • 1 8.9 μs • 1	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT		2.40:	4.62 dBm 200000 GHz



Att 40 dB SWT SGL Count 100/100 91Pk Max 91Pk Max 20 dBm 9100 dBm 9100 dBm	007 Euro e URUL 2020	kHz	
-	227.5 µs 👄 VBW 300	kHz Mode Auto FFT	
20 dBm		M1[1]	0.50 dBm
		M1[1]	2.40195000 GHz
10 dBm		M2[1]	-46.95 dBm 2.40000000 GHz
			2.4000000 GI
0 dBm			
-10 dBm D1 -15.381 dBm			
-20 dBm			
-30 dBm			
-40 dBm	M ⁴		MO MO
-50 dBm	artural and a star and a star and a star a start	manufal approximation of the second s	hundren warder have been been been been been been been be
-60 dBm			
-70 dBm Start 2.306 GHz	10)01 pts	Stop 2.406 GHz
Marker		1 1	
	alue Y-value 40195 GHz 0.50	e Function dBm	Function Result
M2 1 M3 1	2.4 GHz -46.95 2.39 GHz -44.67		
	2.3529 GHz -41.29		
Att 40 dB SWT SGL Count 8000/8000 1Pk Max	18.9 µs 👄 VBW 300 k	KHZ Mode Auto FFT	
		M1[1]	5.01 dBm
20 dBm			2.40215180 GHz
10 dBm			
		X X	
0 dBm		A horado and	have have
-10 dBm	/	· · · · ·	
-20 dBm			
-20 dBm			
-30 dBm	~~~~~~		
-30 dBm			
-30 dBm			
-30 dBm -40 dBm -50 dBm -60 dBm			
-30 dBm -40 dBm -50 dBm		01 pts	Span 8.0 MHz



Att SGL Count	1 27.62 dBm 40 dB 1000/1000			RBW 100 kHz /BW 300 kHz		Auto FFT			
●1Pk Max			1						0.00.10
20 dBm					M	1[1]		2.40	3.39 dBm 185000 GHz
10 dBm					M	2[1]			-44.55 dBm 000000giGHz
								2.400	T L
0 dBm									/w/{u
-10 dBm	D1 -14.986	dBm							
-20 dBm									
-30 dBm									
-40 dBm	4	-	M4	for and when we all the				M3	Ma
-50 dBm	n hindy war	multingener	-unite second	and a working	white when the	n.www.bruytuw	dumenty weather	well that we	Maria
-60 dBm									
-70 dBm	5 GHz			1001	pts		1	Stop	2.406 GHz
Marker	(m						_		
Type Ref	f Trc 1	X-value 2.401	9 85 GHz	Y-value 3.39 dBr	Funct n	tion	Fund	tion Resul	τ
M2 M3	1		.4 GHz 39 GHz	-44.55 dBr -44.02 dBr					
		2							
M4	1	2.34	12 GHz	-40.53 dBr					
M4 Spectrum Ref Level	Band	Edge N	VNT 3-1	DH5 248 BW 100 kHz	30MHz /		o-Hoppir	ng Ref	
M4 Spectrum Ref Level Att SGL Count	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	30MHz /		o-Hoppir	ng Ref	
M4 Spectrum Ref Level Att SGL Count	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248 BW 100 kHz	30MHz / Mode A		o-Hoppir		5.17 dBm
M4 Spectrum Ref Level Att SGL Count	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248 BW 100 kHz	30MHz / Mode A	uto FFT	b III		
M4 Spectrum Ref Level Att SGL Count 1Pk Max	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248 BW 100 kHz	SOMHZ / Mode A	uto FFT	b-Hoppin		5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT	b-Hoppir		5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT	b-Hoppir		5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm-	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT	D-Hoppin		5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT	D-Hoppin		5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT	D-Hoppin		5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT	D-Hoppin		5.17 dBm
M4 Spectrum Ref Level Att SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT			5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT			5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT			5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 3-1	DH5 248	SOMHZ / Mode A	uto FFT			5.17 dBm
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	Band 27.60 dBm 40 dB 100/100	Edge N	VNT 3-1	DH5 248	SOMHZ A	uto FFT		2.479	5.17 dBm 983220 GHz
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	Band 27.60 dBm 40 dB 100/100	Edge N	VNT 3-1	DH5 248	SOMHZ A	uto FFT		2.479	5.17 dBm 983220 GHz



Ref Level 27		Offset	7.60 dB 👄 🖡	RBW 100 kHz					
Att SGL Count 10	40 dB	SWT 2	27.5 µs 👄	/BW 300 kHz	Mode /	Auto FFT			
 1Pk Max 	-/								
20 d8m					M	1[1]		0.45	4.85 dBm
20 dBm					M	2[1]			015000 GHz -45.43 dBm
10 d8m						~[~]			350000 GHz
0 dBm									
-10 dBm-01	-14.828	dBm							
-20 dBm									
-30 dBm									
14	M4								
-40 dBm n2	Nation calif.	ريداني <mark>M3</mark> ماني الم	La Kennen	1hr hall have been	Astrachi Maria I.	and at other other	and all source of the	a sha phi Une	MALINING SUBM
-50 dBm		1	1999 1999 · · · · · · · · · · · · · · ·	1 a . A. A.M. Martin . Mardad	10 - OMILIO II. AND	- nan shihhyy	ייישאי טען דיייינע ערעיין איזע		Wee A disconding
-60 dBm									
50 ubill									
-70 dBm Start 2.476 (1001	ntc				2 576 CU2
Marker	112			1001	μιδ			SLUP	2.576 GHz
Type Ref	Trc	X-valu		Y-value	Fund	tion	Fun	ction Resul	t
M1 M2	1		015 GHz 035 GHz	4.85 dBm -45.43 dBm					
M2 M3	1		2.5 GHZ	-45.43 dBm -46.63 dBm					
M4		2.48 ge(Hop	ping) N	-43.15 dBm /NT 3-DF BW 100 kHz) Bee OMHz	dv 🔲 Ant1 Ho	pping R	ef
M4 Bar Spectrum Ref Level 27 Att SGL Count 80	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł			Ant1 Ho	pping R	
M4 Bar Spectrum Ref Level 27 Att	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A		Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 • 1Pk Max	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 • 1Pk Max 20 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 O 10 dBm 10 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 • 1Pk Max 20 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 • 1Pk Max 20 dBm 10 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 O 10 dBm 10 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 • 1Pk Max 20 dBm 10 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Spectrum Ref Level 27 Att SGL Count 80 ID dBm 10 dBm -10 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Spectrum Ref Level 27 Att SGL Count 80 ID dBm 10 dBm -10 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Spectrum Ref Level 27 Att SGL Count 80 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Spectrum Ref Level 27 Att SGL Count 80 PIPk Max 20 dBm 10 dBm -10 dBm -20 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 SGL Count 80 O dBm 10 dBm -10 dBm -10 dBm -20 dBm -40 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 SGL Count 80 O dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop) offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 SGL Count 80 O dBm 10 dBm -10 dBm -10 dBm -20 dBm -40 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Bar Spectrum Ref Level 27 Att SGL Count 80 • 1Pk Max 20 dBm • 10 dBm • 10 dBm • 20 dBm • -20 dBm • -30 dBm • -40 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248 Mode A	uto FFT	Ant1 Ho		₩ ▼ 5.40 dBm
M4 Spectrum Ref Level 27 Att SGL Count 80 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	1 nd Edg 7.60 dBm 40 dB	2.48 ge(Hop offset 7	ping) N	/NT 3-Dł BW 100 kHz	H5 248	uto FFT	Ant1 Ho	2.47	₩ ▼ 5.40 dBm



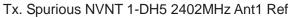
Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission ₽ Spectrum Ref Level 27.60 dBm Offset 7.60 dB 🖷 RBW 100 kHz 40 dB SWT 227.5 µs 😑 VBW 300 kHz Mode Auto FFT Att SGL Count 1000/1000 ●1Pk Max M1[1] 3.57 dBm 20 dBm-2.47995000 GHz -44.88 dBm 2.48350000 GHz M2[1] 10 dBm-R de<mark>m</mark> -10 cBm D1 -14.603 dBm -20 cBm--30 dBm M -40 demi2-MR user and real and r hotom What have ~4hAr Variable may Regenerated and a سيبيبلواله mound -50 dBm -60 dBm -70 dBm-Start 2.476 GHz 1001 pts Stop 2.576 GHz Marker 2.47995 GHz Y-value 3.57 dBm Function Function Result Type Ref Trc Μ1 1 M2 2.4835 GHz -44.88 dBm 1 ΜЗ 2.5 GHz -44.06 dBm 1 2.4949 GHz M4 -41.88 dBm



8.7 CONDUCTED RF SPURIOUS EMISSION

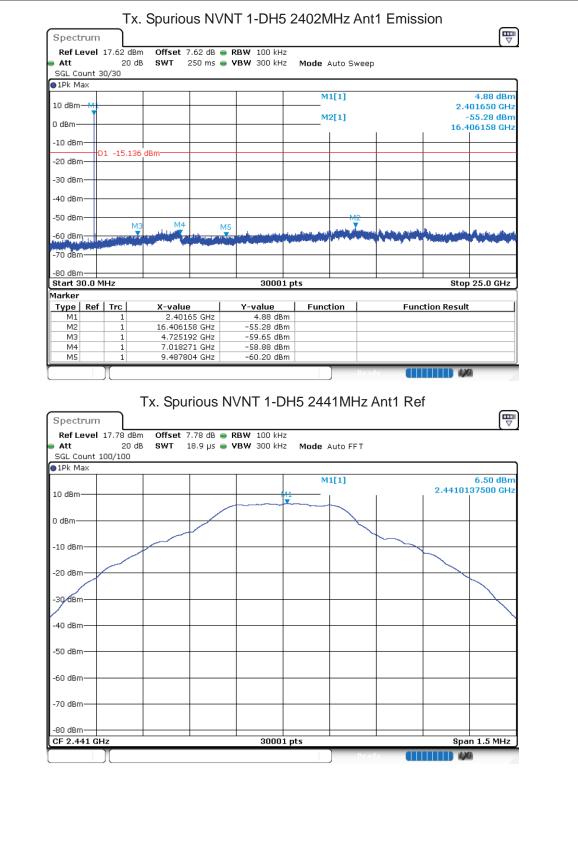
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	-60.14	-20	Pass
NVNT	1-DH5	2441	Ant 1	-61.83	-20	Pass
NVNT	1-DH5	2480	Ant 1	-60.65	-20	Pass
NVNT	2-DH5	2402	Ant 1	-59.62	-20	Pass
NVNT	2-DH5	2441	Ant 1	-61.36	-20	Pass
NVNT	2-DH5	2480	Ant 1	-55.08	-20	Pass
NVNT	3-DH5	2402	Ant 1	-59.56	-20	Pass
NVNT	3-DH5	2441	Ant 1	-59.52	-20	Pass
NVNT	3-DH5	2480	Ant 1	-55.54	-20	Pass

ACCREDITED

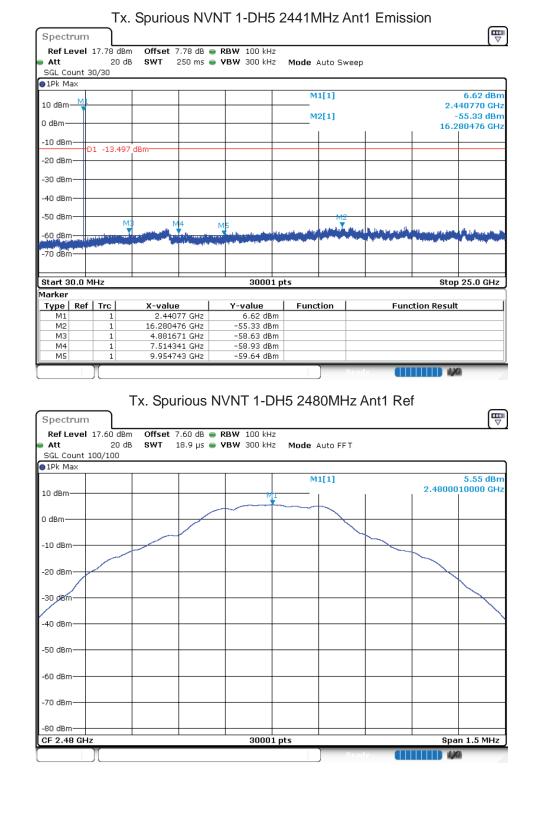




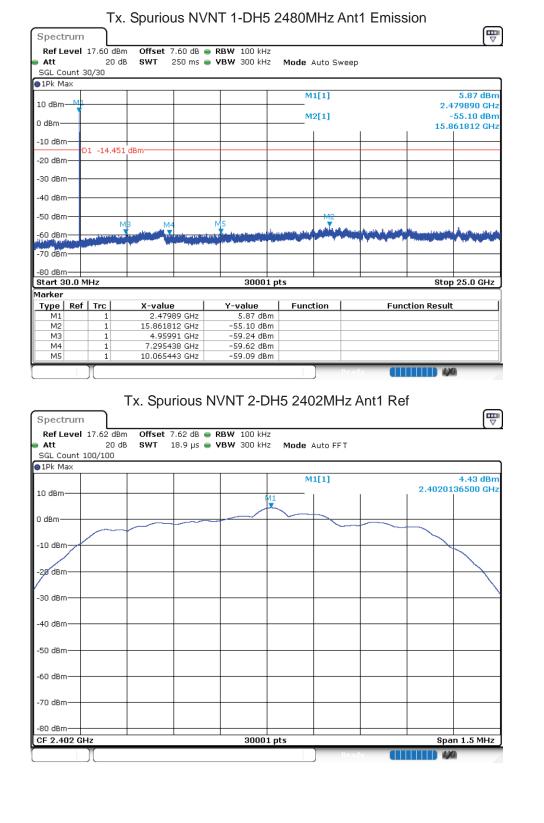




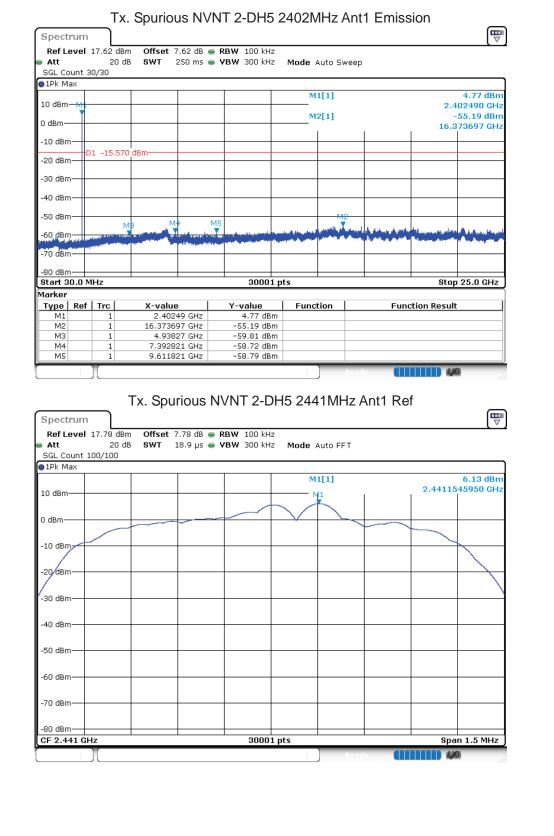




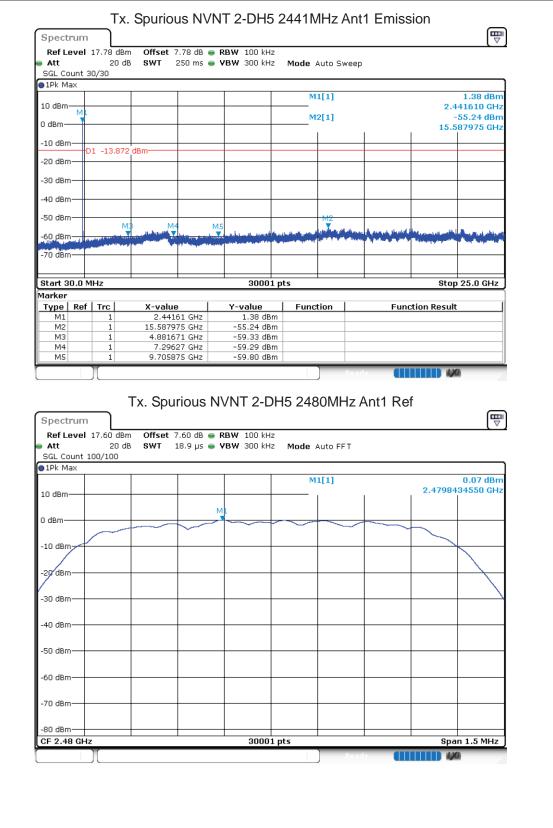




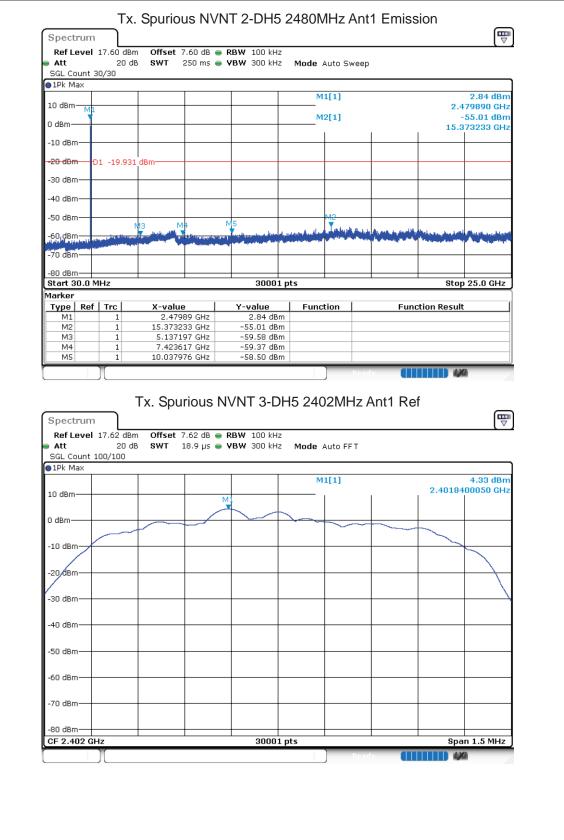




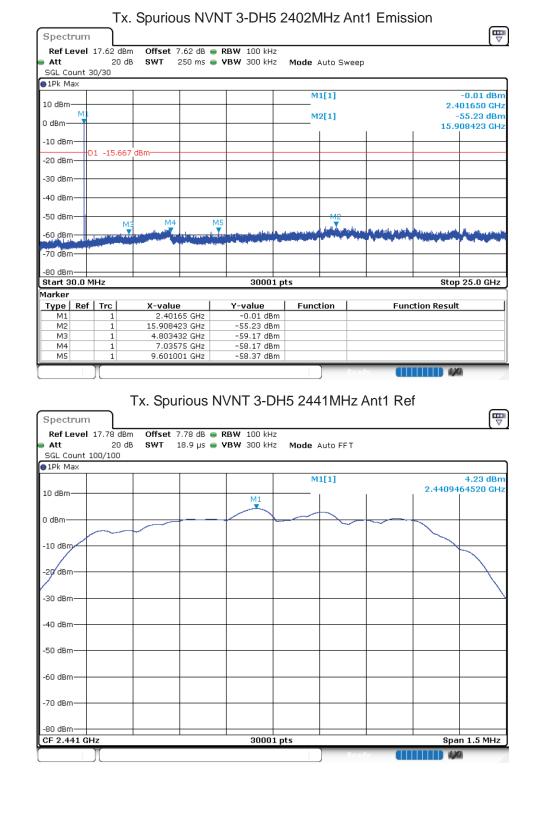




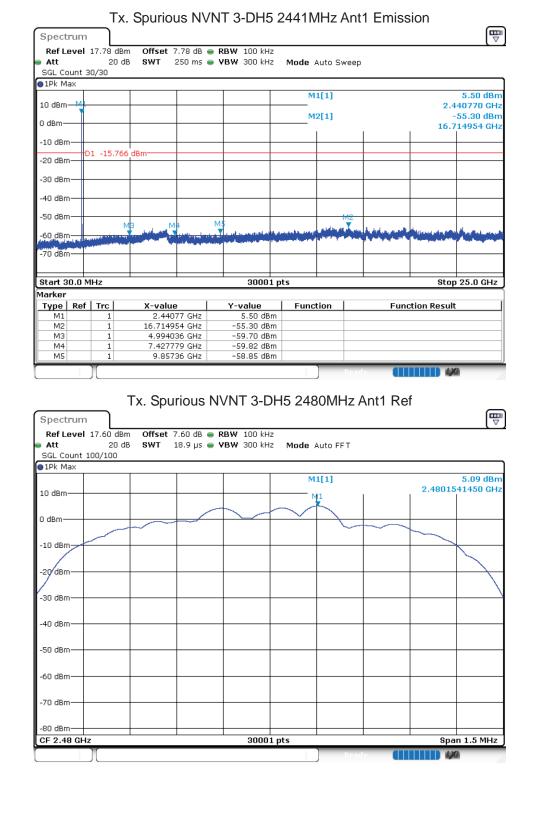














	rum											₹
	evel	17.60 de			-	W 100 kH:						
SGL Co	t 2	20	dB SWT :	250 ms	VE	W 300 kH:	2 Mode	Auto S	weep			
1Pk M		0/30										
							P	41[1]				3.32 dBm
10 dBm	MI										2.4	479890 GHz
	1						P	42[1]				-50.45 dBm
0 dBm—											1.6	394427 GHz
-10 dBm												
		1 -14.91	14 dBm									
-20 dBm					-			-				
-30 dBm												
00 400												
40 dBm												
∙50 dBr	12											
-50 UBII			МЗ М	4	M5							
60 dBm		a local day in the second		a the second	The second se	المراقبين والمعاطية	يەلىيە ئەرەبلىغان ۋە ئارىلى مەلىيە ئەرەبلىغان ۋە ئارىلى				الحاديما ببالبدو فأف	
70 dBm		and the second se		a filmen and	than 1	ing to a familiant of the second second		·				
-70 dBm												
-80 dBm								_				
Start 3	0.0 M	Hz	•			3000	l pts				Sto	25.0 GHz
1arker												
Type	Ref	Trc	X-value			Y-value		ction		Fund	tion Resul	t d
M1		1		89 GHz		3.32 dB			_			
M2 M3		1	1.8944			-50.45 dB						
M3 M4		1	5.0498			-59.93 dB						
M5		1	10.0105			-58.77 dB						

END OF REPORT