

RADIO TEST REPORT FCC ID: 2AOKUTABLET5

Product: Tablet Trade Mark: HOTWAV Model No.: TAB R5 Family Model: P2201, P2202, P2201S, P2202S, TAB R5S, TAB R6, TAB R6S Report No.: STR221021003001E Issue Date: Nov 30, 2022

Prepared for

SHENZHEN TUGAO INTELLIGENT CO., LTD

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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Address:	8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China
Manufacturer's Name:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Address:	8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China
Product description	
Product name:	Tablet
Model and/or type reference:	TAB R5
Family Model	P2201, P2202, P2201S, P2202S, TAB R5S, TAB R6, TAB R6S
Test Sample Number	T221021001R001
· ·	1

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

Testing Engineer

Authorized Signatory

(Alex Li)

Oct 21, 2022 ~ Nov 30, 2022

(Marv Hu)

HU



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

Remark:

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



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

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

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

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

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



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Tablet	
Trade Mark	HOTWAV	
FCC ID	2AOKUTABLET5	
Model No.	TAB R5	
Family Model	P2201, P2202, P2201S, P2202S, TAB R5S, TAB R6, TAB R6S	
Model Difference	All models are the same circuit and RF module, except the model name and colors.	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	PIFA Antenna	
Antenna Gain	0.26 dBi	
Adapter	Model: HJ-0502000W2-US Input: 100-240V~50/60Hz 0.3A Output: 5.0V2.0A 10.0W	
Battery	DC 3.85V, 15600mAh, 60.06Wh	
Power supply	DC 3.85V from battery or DC 5V from Adapter.	
HW Version	TP717_MAIN_PCB_V1.2A	
SW Version	HOTWAV_TAB R5_V3.0_20221115	

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



Certificate #4298.01 Revision History			
Report No.	Version	Description	Issued Date
STR221021003001E	Rev.01	Initial issue of report	Nov 30, 2022



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

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

For AC Conducted Emission			
Final Test Mode Description			
Mode 1 normal link mode			

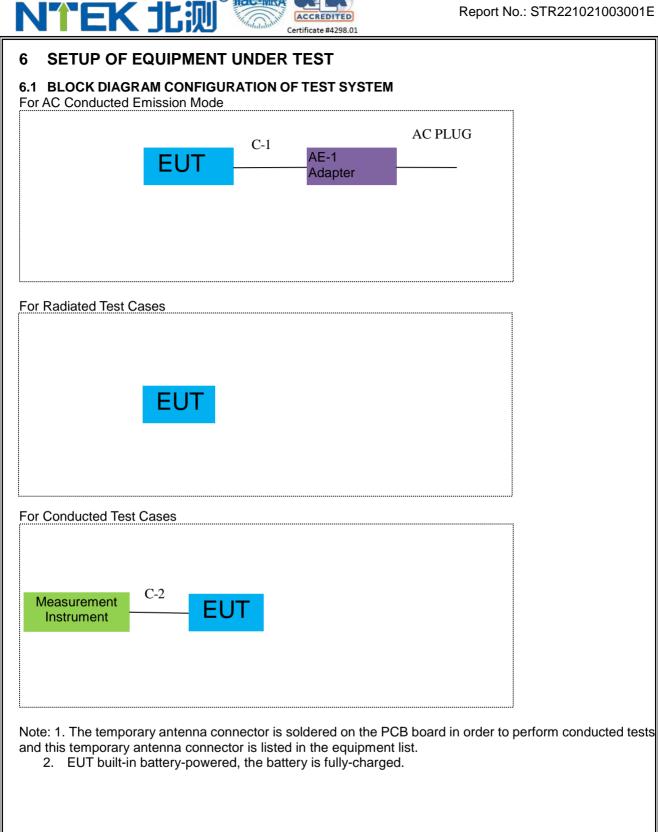
Note: AC power line Conducted Emission was tested under maximum output power.

	For Radiated Test Cases		
Final Test Mode	Description		
Mode 1	normal link mode		
Mode 2	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.





6.2 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.

ltom	Fauinment	Madal/Tyraa Na	Series No.	Nata
Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	HJ-0502000W2-US	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

Notes:

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



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

		estequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.01	2023.03.31	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.01	2023.03.31	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.06.16	2023.06.15	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	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	2022.03.31	2023.03.30	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.06.17	2023.06.16	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.06.17	2023.06.16	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.06.16	2023.06.15	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2022.06.17	2023.06.16	1 year
16	Filter	TRILTHIC	2400MHz	29	2022.04.01	2023.03.31	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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



AC Co	onduction Test	equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2022.04.06	2023.04.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

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



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

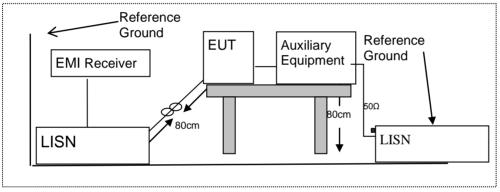
7.1.2 Conformance Limit

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

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

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

7.1.3 Test Configuration



7.1.4 Test Procedure

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

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

7.1.5 Test Results

Pass



7.1.6 Test Results

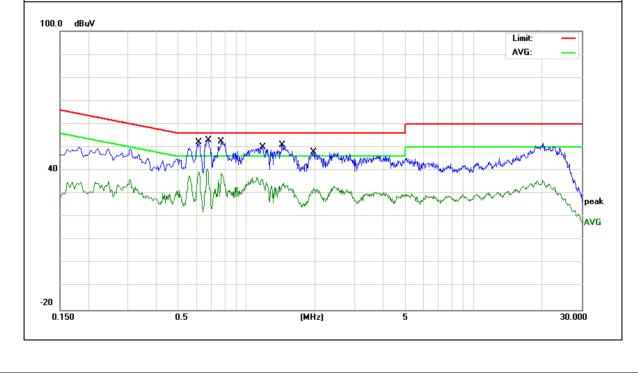
EUT:	Tablet	Model Name :	TAB R5
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.6139	42.42	9.67	52.09	56.00	-3.91	QP
0.6139	29.97	9.67	39.64	46.00	-6.36	AVG
0.6780	43.40	9.67	53.07	56.00	-2.93	QP
0.6780	31.20	9.67	40.87	46.00	-5.13	AVG
0.7740	42.72	9.68	52.40	56.00	-3.60	QP
0.7740	29.10	9.68	38.78	46.00	-7.22	AVG
1.1818	40.32	9.68	50.00	56.00	-6.00	QP
1.1818	26.49	9.68	36.17	46.00	-9.83	AVG
1.4379	41.22	9.67	50.89	56.00	-5.11	QP
1.4379	25.01	9.67	34.68	46.00	-11.32	AVG
1.9739	38.15	9.68	47.83	56.00	-8.17	QP
1.9739	22.66	9.68	32.34	46.00	-13.66	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





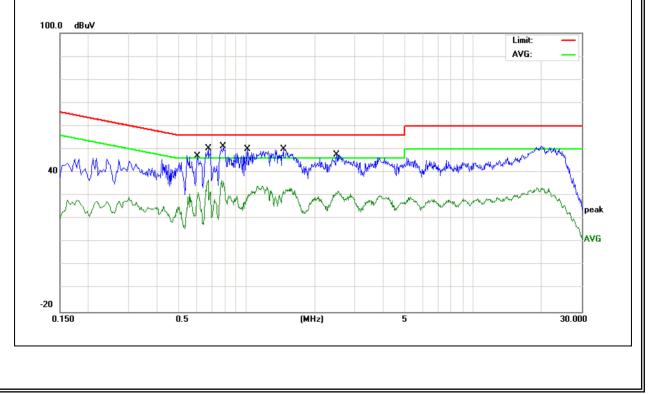
EUT:	Tablet	Model Name :	TAB R5
Temperature:	25 ℃	Relative Humidity:	62%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.6059	37.44	9.67	47.11	56.00	-8.89	QP
0.6059	21.88	9.67	31.55	46.00	-14.45	AVG
0.6780	40.74	9.67	50.41	56.00	-5.59	QP
0.6780	27.25	9.67	36.92	46.00	-9.08	AVG
0.7900	41.49	9.68	51.17	56.00	-4.83	QP
0.7900	27.00	9.68	36.68	46.00	-9.32	AVG
1.0100	40.42	9.69	50.11	56.00	-5.89	QP
1.0100	20.80	9.69	30.49	46.00	-15.51	AVG
1.4539	40.41	9.67	50.08	56.00	-5.92	QP
1.4539	22.95	9.67	32.62	46.00	-13.38	AVG
2.4980	38.05	9.68	47.73	56.00	-8.27	QP
2.4980	22.28	9.68	31.96	46.00	-14.04	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

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

According to FOC Fart 15.200, Restricted barros				
MHz	MHz	MHz	GHz	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3600-4400	(2)	
13.36-13.41				

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

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

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

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

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

For Frequency above 30MHz:

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

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

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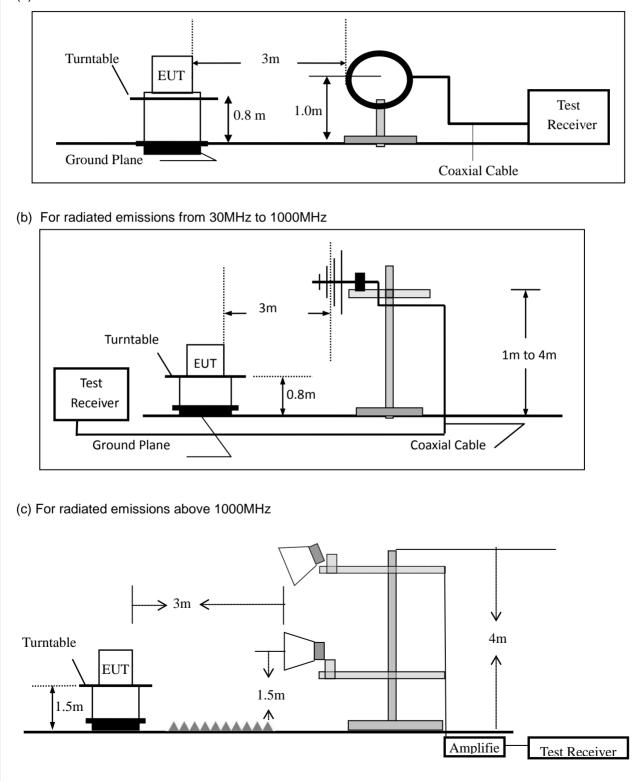
7.2.3 Measuring Instruments

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

ACCREDITED Certificate #4298.01

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

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

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

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

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

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

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



During the radiated emission te	uring the radiated emission test, the Spectrum Analyzer was set with the following configurations:									
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth							
30 to 1000	QP	120 kHz	300 kHz							
Abaua 4000	Peak	1 MHz	1 MHz							
Above 1000	Average	1 MHz	1 MHz							

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

7.2.6 Test Results

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

EUT:	Tablet	Model No.:	TAB R5
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

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



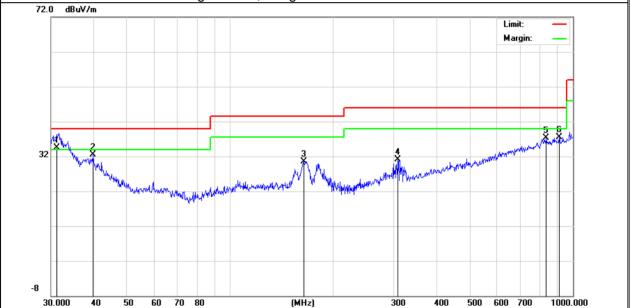
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was

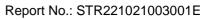
All the modulation	All the modulation modes have been tested, and the worst result was report as below:							
EUT:	Tablet	Model Name :	TAB R5					
Temperature:	25 ℃	Relative Humidity:	55%					
Pressure:	1010hPa	Test Mode:	Mode 1					
Test Voltage :	DC 3.85V							

Polar	Frequency	Meter Reading			Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	31.2001	8.87	25.64	34.51	40.00	-5.49	QP
V	39.8541	11.88	20.55	32.43	40.00	-7.57	QP
V	164.3301	12.68	17.90	30.58	43.50	-12.92	QP
V	308.9126	11.08	20.12	31.20	46.00	-14.80	QP
V	836.2441	7.46	29.79	37.25	46.00	-8.75	QP
V	912.8618	6.93	30.58	37.51	46.00	-8.49	QP

Remark:

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







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remarl
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	30.7454	5.50	25.87	31.37	40.00	-8.63	QP
Н	136.9391	5.72	18.90	24.62	43.50	-18.88	QP
Н	247.6819	8.75	18.81	27.56	46.00	-18.44	QP
Н	313.2760	13.92	20.40	34.32	46.00	-11.68	QP
Н	729.3582	8.16	28.11	36.27	46.00	-9.73	QP
Н	824.5968	8.58	29.30	37.88	46.00	-8.12	QP
72.0	dBuV/m					Limit: Margin:	
-							
-						5 %	
32 3	Thread for the start of the sta		North March 1990	M. Mahalan Marina	Munorman	wellow when white and	
32 1	The stand with the stand and the stand		nor and a star way	WWWWWWWWW	Munomonum	Wy May Market William	



Spurious	Spurious Emission Above 1GHz (1GHz to 25GHz)									
EUT:	Tab	olet		Mode	el No.:		TAB F	۶5		
Temperature:	: 20 °	°C		Relat	Relative Humidity:			48%		
Test Mode:	Мо	de2/Mode	e3/Mode4	Test	By:		Mary	Hu		
All the modula	All the modulation modes have been tested, and the worst result was report as below:									
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Lin	nits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	ıV/m)	(dB)		
			Low Chann	el (2402 M	Hz)(8-DPSł	()Ab	ove 10)		
4804.58	64.59	5.21	35.59	44.30	61.09	74	.00	-12.91	Pk	Vertical
4804.58	43.27	5.21	35.59	44.30	39.77	54	.00	-14.23	AV	Vertical
7206.86	63.02	6.48	36.27	44.60	61.17	74	.00	-12.83	Pk	Vertical
7206.86	42.93	6.48	36.27	44.60	41.08	54	.00	-12.92	AV	Vertical
4804.35	61.14	5.21	35.55	44.30	57.60	74	.00	-16.40	Pk	Horizontal
4804.35	42.17	5.21	35.55	44.30	38.63	54	.00	-15.37	AV	Horizontal
7206.69	59.86	6.48	36.27	44.52	58.09	74	.00	-15.91	Pk	Horizontal
7206.69	41.79	6.48	36.27	44.52	40.02	54	.00	-13.98	AV	Horizontal
			Mid Channe	el (2441 M	Hz)(8-DPSk	()Abo	ove 1G	i		
4882.66	64.48	5.21	35.66	44.20	61.15	74	.00	-12.85	Pk	Vertical
4882.66	43.17	5.21	35.66	44.20	39.84	54	.00	-14.16	AV	Vertical
7323.18	63.65	7.10	36.50	44.43	62.82	74	.00	-11.18	Pk	Vertical
7323.18	42.89	7.10	36.50	44.43	42.06	54	.00	-11.94	AV	Vertical
4882.53	60.70	5.21	35.66	44.20	57.37	74	.00	-16.63	Pk	Horizontal
4882.53	42.87	5.21	35.66	44.20	39.54	54	.00	-14.46	AV	Horizontal
7324.77	59.44	7.10	36.50	44.43	58.61	74	.00	-15.39	Pk	Horizontal
7324.77	41.75	7.10	36.50	44.43	40.92		.00	-13.08	AV	Horizontal
			High Chann	el (2480 M	Hz)(8-DPSł	() Ab	ove 10	3	r	
4959.53	64.48	5.21	35.52	44.21	61.00	74	.00	-13.00	Pk	Vertical
4959.53	43.65	5.21	35.52	44.21	40.17	54	.00	-13.83	AV	Vertical
7439.63	60.43	7.10	36.53	44.60	59.46	74	.00	-14.54	Pk	Vertical
7439.63	43.67	7.10	36.53	44.60	42.70	54	.00	-11.30	AV	Vertical
4960.28	60.42	5.21	35.52	44.21	56.94	74	.00	-17.06	Pk	Horizontal
4960.28	40.66	5.21	35.52	44.21	37.18	54	.00	-16.82	AV	Horizontal
7440.50	59.63	7.10	36.53	44.60	58.66	74	.00	-15.34	Pk	Horizontal
7440.50	41.12	7.10	36.53	44.60	40.15	54	.00	-13.85	AV	Horizontal

Note:

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



Spurious	Emission	in Restri	icted Band	231	0-239	0MHz and	2483.	.5-250	0MHz		
EUT:	Tablet				Mode	el No.:		TAB	R5		
Temperature:	20 °C				Relat	ive Humidit	y:	48%			
Test Mode:	Mode2/ M	de2/ Mode4 Test By:							Test By: Mary Hu		
All the modu	lation mod	les have	ve been tested, and the worst result was						ort as bel	ow:	
Frequency	Meter Reading	Cable Loss	Antenna Factor		amp ctor	Emission Level	Lin	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(d	B)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре	
			3N	/bps(a	8-DP	SK)-Non-hop	oping				
2310.00	54.23	2.97	27.80	43	.80	41.20	7	4	-32.80	Pk	Horizonta
2310.00	44.88	2.97	27.80	43.	.80	31.85	5	4	-22.15	AV	Horizonta
2310.00	53.21	2.97	27.80	43.	.80	40.18	7	4	-33.82	Pk	Vertical
2310.00	42.54	2.97	27.80	43.	.80	29.51	5	4	-24.49	AV	Vertical
2390.00	54.51	3.14	27.21	43.	.80	41.06	7	4	-32.94	Pk	Vertical
2390.00	44.70	3.14	27.21	43.	.80	31.25	5	4	-22.75	AV	Vertical
2390.00	53.83	3.14	27.21	43.	.80	40.38	7	4	-33.62	Pk	Horizonta
2390.00	44.85	3.14	27.21	43.	.80	31.40	5	4	-22.60	AV	Horizonta
2483.50	53.23	3.58	27.70	44.	.00	40.51	7	4	-33.49	Pk	Vertical
2483.50	42.16	3.58	27.70	44.	.00	29.44	5	4	-24.56	AV	Vertical
2483.50	54.27	3.58	27.70	44.	.00	41.55	7	4	-32.45	Pk	Horizonta
2483.50	41.26	3.58	27.70	44.	.00	28.54	5	4	-25.46	AV	Horizonta
				3Mbp	s(8-D	PSK)-hoppi	ing				
2310.00	54.42	2.97	27.80	43.	.80	41.39	7	4	-32.61	Pk	Horizonta
2310.00	41.97	2.97	27.80	43.	.80	28.94	5	4	-25.06	AV	Horizonta
2310.00	54.62	2.97	27.80	43.	.80	41.59	7	4	-32.41	Pk	Vertical
2310.00	44.60	2.97	27.80	43.	.80	31.57	5	4	-22.43	AV	Vertical
2390.00	52.91	3.14	27.21	43.	.80	39.46	7	4	-34.54	Pk	Vertical
2390.00	43.28	3.14	27.21	43	.80	29.83	5	4	-24.17	AV	Vertical
2390.00	53.84	3.14	27.21	43.	.80	40.39	7	4	-33.61	Pk	Horizonta
2390.00	44.68	3.14	27.21	43.	.80	31.23	5	4	-22.77	AV	Horizonta
2483.50	51.21	3.58	27.70	44.	.00	38.49	7	4	-35.51	Pk	Vertical
2483.50	44.20	3.58	27.70	44.	.00	31.48	5	4	-22.52	AV	Vertical
2483.50	51.96	3.58	27.70	44.	.00	39.24	7	4	-34.76	Pk	Horizonta
2483.50	44.91	3.58	27.70	44.	.00	32.19	5	4	-21.81	AV	Horizonta

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



EUT:	Table	ət		N	Лode	Iodel No.: TAB R5			R5		
emperature:	emperature: 20 °C Relative Humidity: 48%										
est Mode:	Mode: Mode2/ Mode4 Test By:					Зу:		Mary	Hu		
A <u>ll the modula</u>	ation mode	es have	been teste	ed, an	nd the	e worst res	ult wa	is repo	ort as be	ow:	
Frequency	Reading Level	Cable Loss	Antenna Factor	Prea Fac		Emission Level	Lin	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dE	B)	(dBµV/m)	(dBµ	ıV/m)	(dB)	Туре	
3260	60.95	4.04	29.57	44.	70	49.86	7	'4	-24.14	Pk	Vertical
3260	47.98	4.04	29.57	44.	70	36.89	5	4	-17.11	AV	Vertical
3260	53.61	4.04	29.57	44.	70	42.52	7	'4	-31.48	Pk	Horizontal
3260	45.93	4.04	29.57	44.	70	34.84	5	4	-19.16	AV	Horizontal
3332	62.81	4.26	29.87	44.4	40	52.54	7	'4	-21.46	Pk	Vertical
3332	44.85	4.26	29.87	44.4	40	34.58	5	4	-19.42	AV	Vertical
3332	62.22	4.26	29.87	44.4	40	51.95	7	'4	-22.05	Pk	Horizontal
3332	44.16	4.26	29.87	44.4	40	33.89	5	4	-20.11	AV	Horizontal
17797	49.91	10.99	43.95	43.	50	61.35	7	'4	-12.65	Pk	Vertical
17797	35.00	10.99	43.95	43.	50	46.44	5	4	-7.56	AV	Vertical
17788	53.26	11.81	43.69	44.6	60	64.16	7	'4	-9.84	Pk	Horizontal
17788	38.14	11.81	43.69	44.0	.60	49.04	5	4	-4.96	AV	Horizontal

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



7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

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

7.3.2 Conformance Limit

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

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

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

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

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

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

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

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	Tablet	Model No.:	TAB R5
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 30% 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:	Tablet	Model No.:	TAB R5
Temperature:	20 °C	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:	Tablet	Model No.:	TAB R5
Temperature:	20 °C	Relative Humidity:	TAB R5 48% Mary Hu
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

Note:

A Period Time = (channel number)*0.4

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

For Example:

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



7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

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

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.6.6 Test Results

EUT:	Tablet	Model No.:	TAB R5
Temperature:	20 °C	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:	Tablet	Model No.:	TAB R5
Temperature:	20 °C	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 §15.205(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:	Tablet	Model No.:	TAB R5
Temperature:	20 °C	Relative Humidity:	TAB R5 48% Mary Hu
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mary Hu



7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

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

7.9.2 Conformance Limit

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

7.9.3 Measuring Instruments

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

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

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

7.9.6 Test Results

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



7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

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

7.10.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: 0.26dBi). It comply with the standard requirement.



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

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmission bursts must comply with the definition of a frequency hopping system and must distribute its 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.

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.

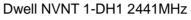
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

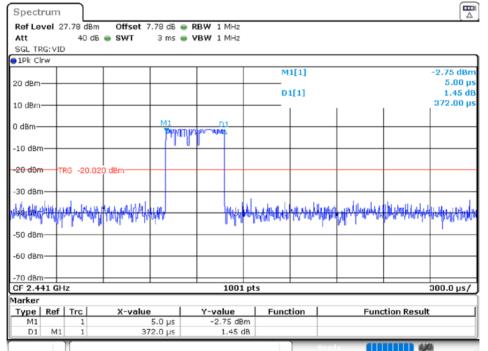


8 TEST RESULTS

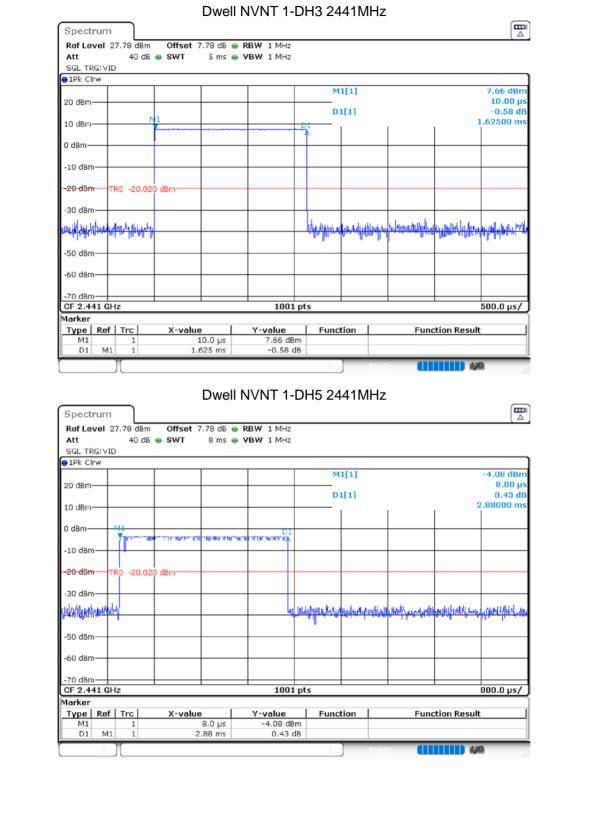
8.1 DWELL TIME

Condition	Mode	Frequency	Pulse Time	Total Dwell	Period Time	Limit	Verdict
		(MHz)	(ms)	Time (ms)	(ms)	(ms)	
NVNT	1-DH1	2441	0.372	119.04	31600	400	Pass
NVNT	1-DH3	2441	1.625	260	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	1.59	254.4	31600	400	Pass
NVNT	2-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	3-DH1	2441	0.381	121.92	31600	400	Pass
NVNT	3-DH3	2441	1.625	260	31600	400	Pass
NVNT	3-DH5	2441	2.872	306.347	31600	400	Pass
					* *		

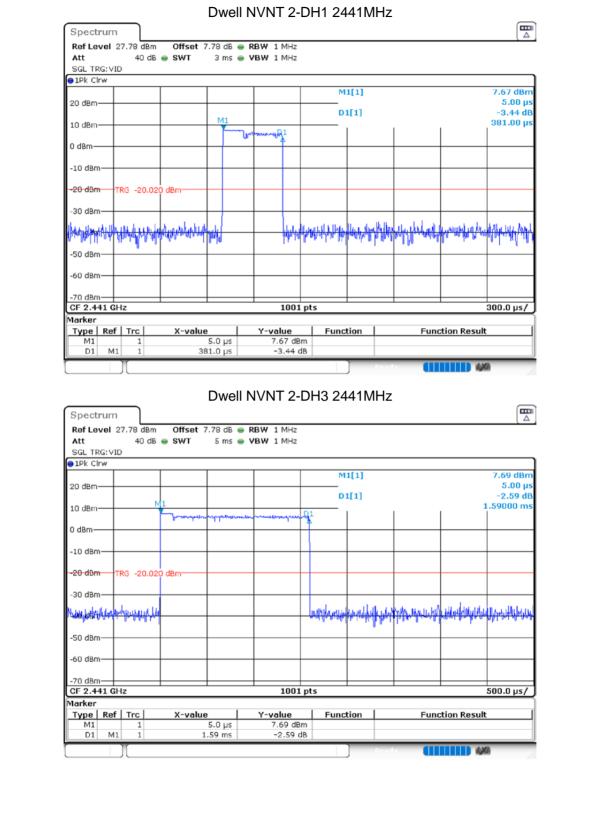




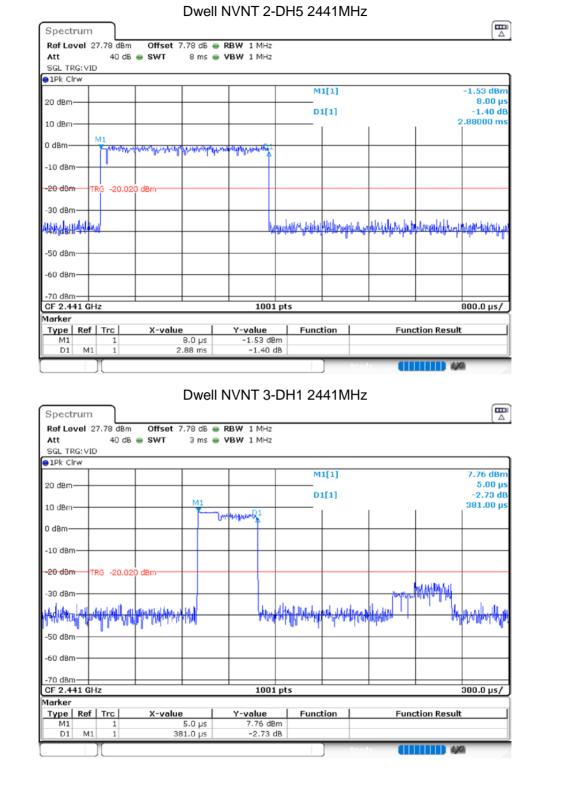




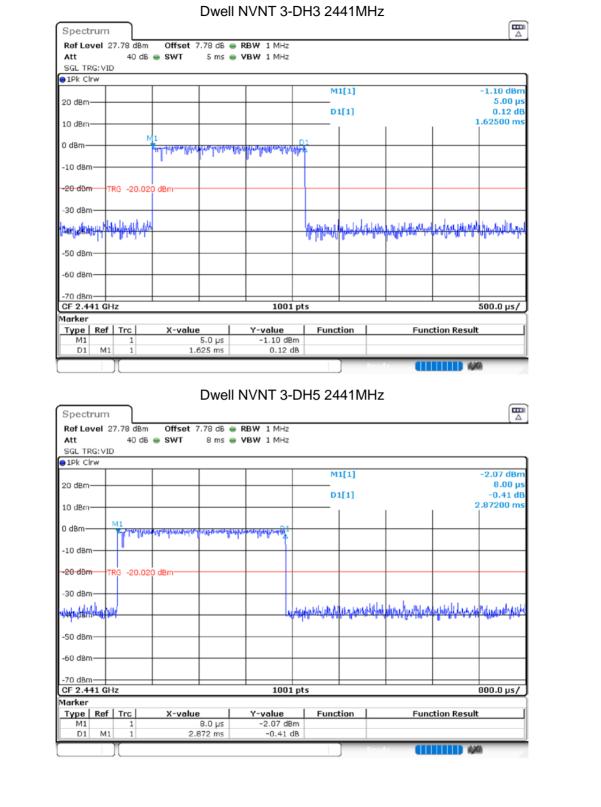










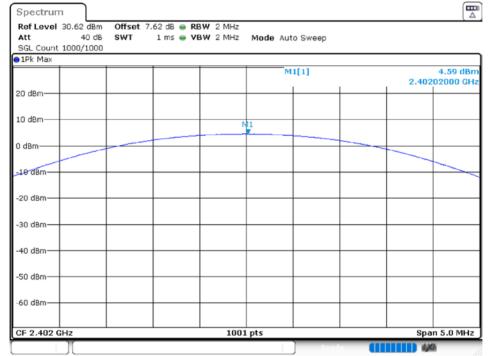




8.2 MAXIMUM CONDUCTED OUTPUT POWER

•			011211			
Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	4.59	30	Pass
NVNT	1-DH5	2441	Ant 1	5.29	30	Pass
NVNT	1-DH5	2480	Ant 1	5.59	30	Pass
NVNT	2-DH5	2402	Ant 1	6.33	21	Pass
NVNT	2-DH5	2441	Ant 1	7.18	21	Pass
NVNT	2-DH5	2480	Ant 1	7.66	21	Pass
NVNT	3-DH5	2402	Ant 1	6.52	21	Pass
NVNT	3-DH5	2441	Ant 1	7.48	21	Pass
NVNT	3-DH5	2480	Ant 1	7.90	21	Pass

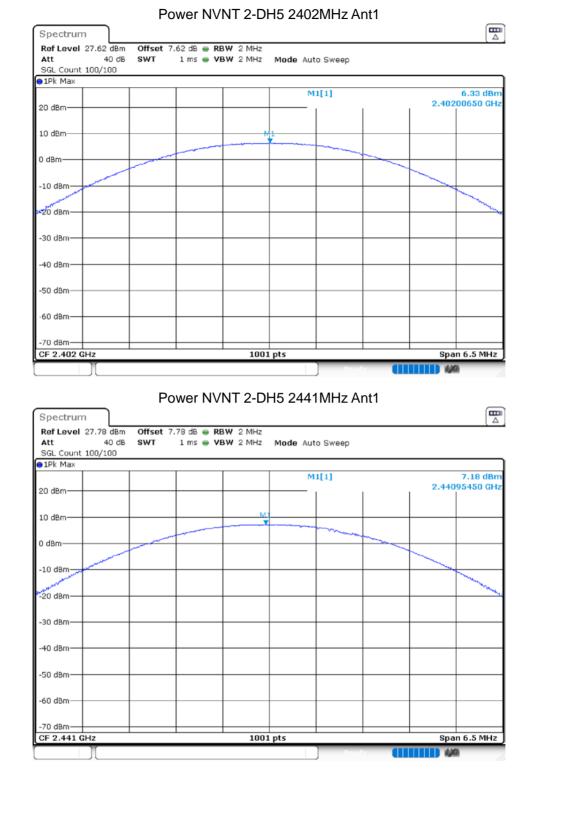
Power NVNT 1-DH5 2402MHz Ant1



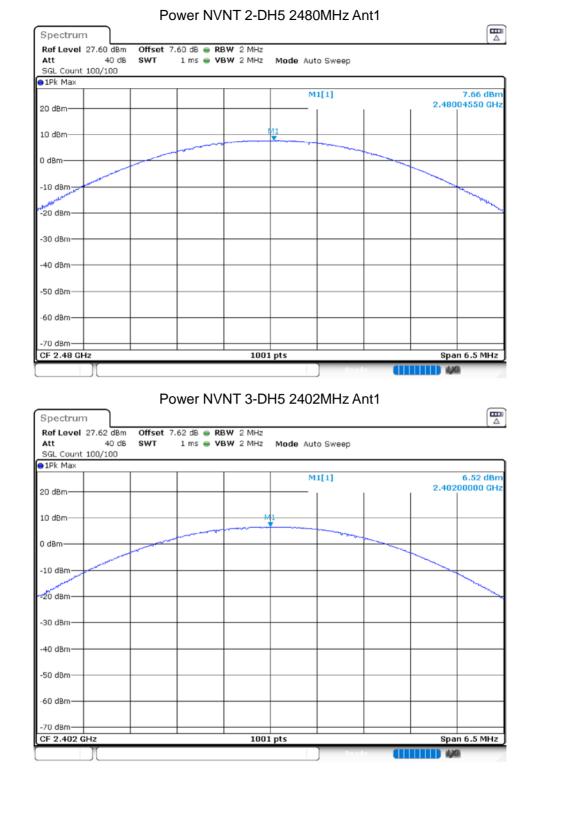




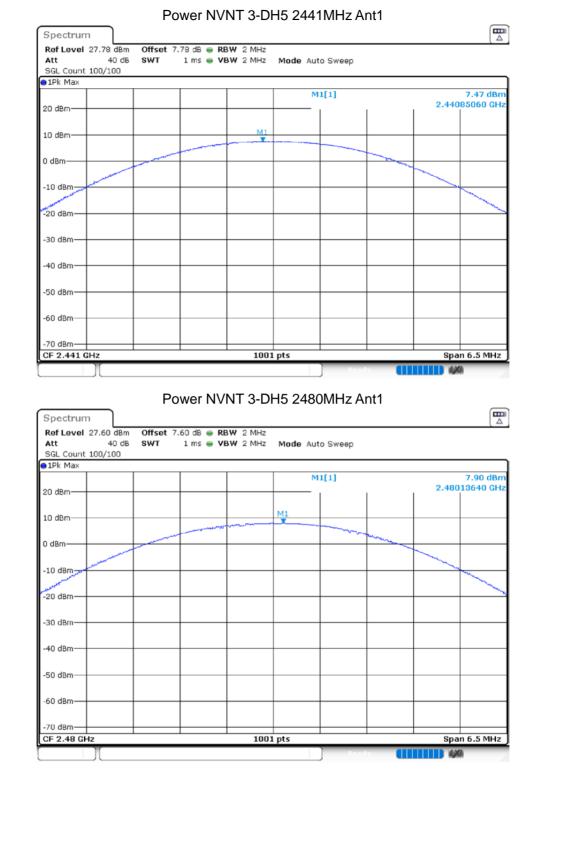






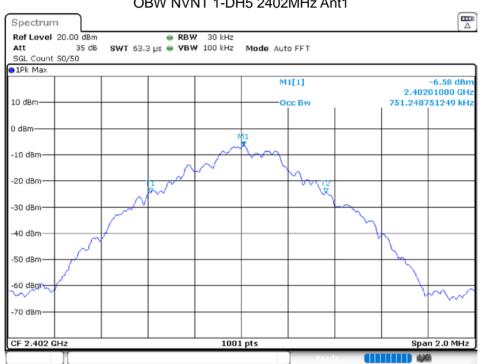








8.3 OCCUPIED CHANNEL BANDWIDTH Condition 99% OBW -20 dB Bandwidth Verdict Mode Frequency Antenna (MHz) (MHz) (MHz) NVNT 1-DH5 2402 Ant 1 0.7512 0.856 Pass Pass NVNT 1-DH5 2441 Ant 1 0.7552 0.858 NVNT 1-DH5 2480 Ant 1 0.7672 Pass 0.85 **NVNT** 2-DH5 2402 Ant 1 1.1429 1.252 Pass 1.1449 Pass NVNT 2-DH5 2441 Ant 1 1.252 NVNT 2-DH5 2480 Ant 1 1.1528 1.258 Pass NVNT 3-DH5 2402 Ant 1 1.1429 1.25 Pass NVNT 3-DH5 2441 Ant 1 1.1469 1.25 Pass NVNT 2480 1.1548 1.252 3-DH5 Ant 1 Pass



OBW NVNT 1-DH5 2402MHz Ant1

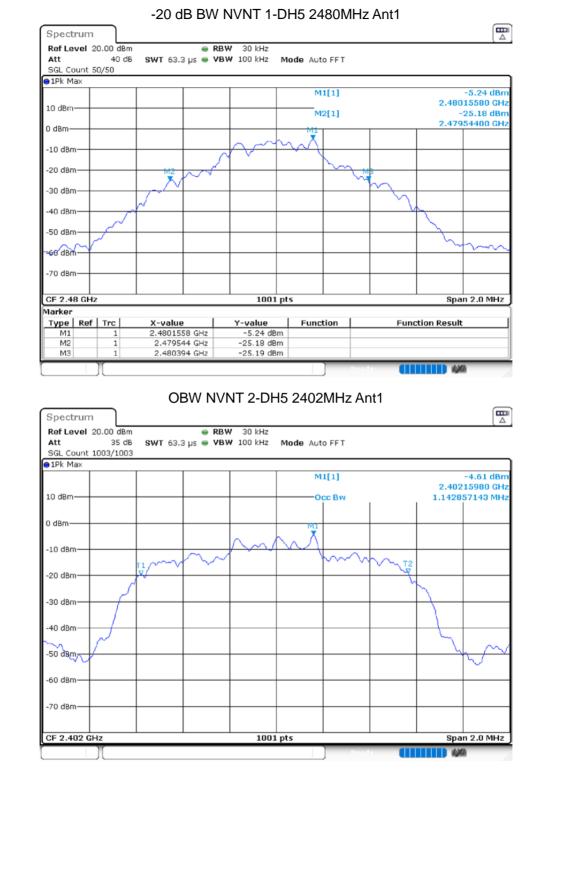
























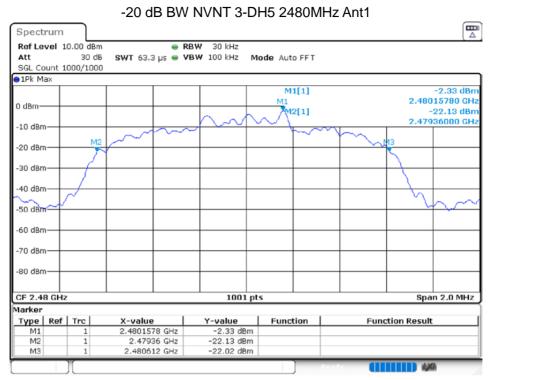








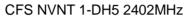


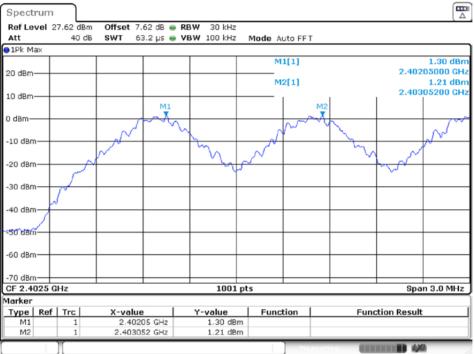




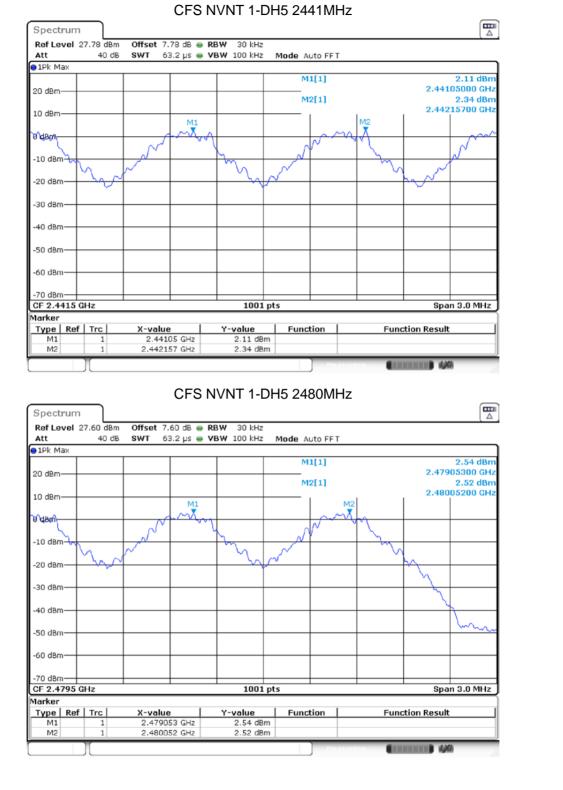
8.4 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
		(MHz)	(MHz)	(MHz)	(MHz)	
NVNT	1-DH5	2402.05	2403.052	1.002	0.856	Pass
NVNT	1-DH5	2441.05	2442.157	1.107	0.858	Pass
NVNT	1-DH5	2479.053	2480.052	0.999	0.85	Pass
NVNT	2-DH5	2402.008	2403.16	1.152	0.835	Pass
NVNT	2-DH5	2441.02	2442.01	0.99	0.835	Pass
NVNT	2-DH5	2479.158	2480.079	0.921	0.839	Pass
NVNT	3-DH5	2402.158	2403.16	1.002	0.833	Pass
NVNT	3-DH5	2441.158	2442.157	0.999	0.833	Pass
NVNT	3-DH5	2479.158	2480.157	0.999	0.835	Pass

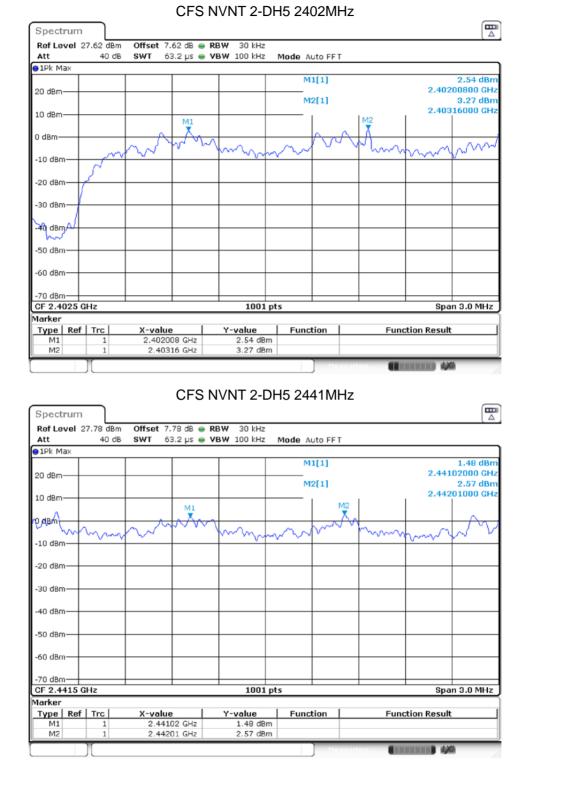








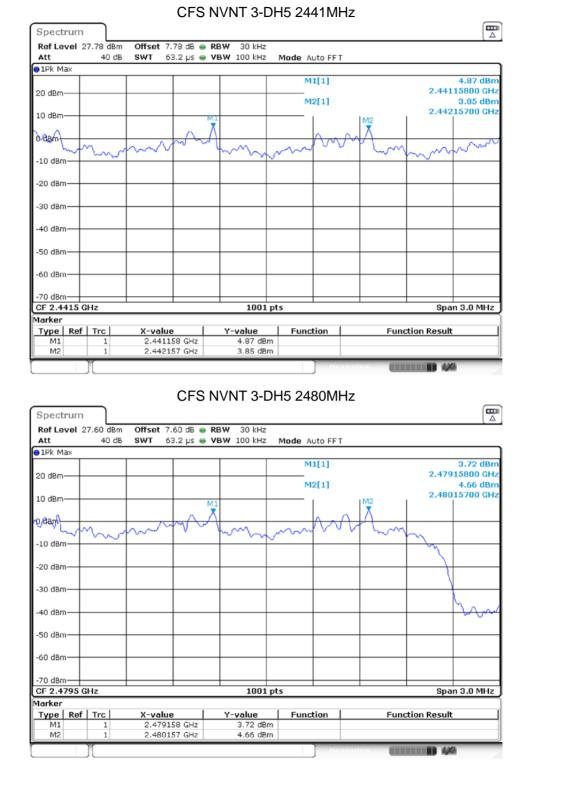












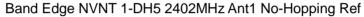


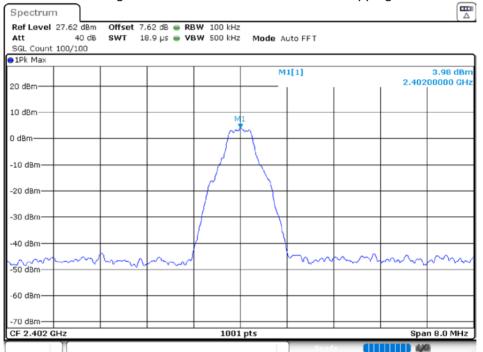
NT 1-DH5 79 15 Pass Hopping No. NVNT 1-DH5 2402MHz Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kH2 Mode Auto Sweep SGL Count 7000/7000 SWT 1 ms YBW 300 kH2 Mode Auto Sweep SGL Count 7000/7000 M1[1] 2.55 dBm 2.4018370 GH2 6.75 dBm 0 dBm M2[1] 2.47999382H2 6.75 dBm 2.47999382H2 0 dBm M1[1] 2.47999382H2 6.75 dBm 10 dBm M1[1] 2.47999382H2 6.75 dBm 20 dBm M1[1] 2.47999382H2 6.75 dBm 10 dBm M1[1] 2.47999382H2 6.75 dBm -10 dBm M1[1] 2.47999382H2 6.75 dBm -50 dBm M1[1] 2.4799382H2 6.75 dBm -50 dBm M1[1] 1 M1[1] 1 M1[1] -50 dBm M1[1] 1 M1[1] 1 M1[1] -50 dBm M1[1] 1 M1[1] 1 M1[1] -50 dBm M1[1] 1 M1[1] 1 M1[1] 1 M1[1]												
Hopping No. NVNT 1-DH5 2402MHz Image: Colspan="2">Image: Colspan="2" Image:					Limit							
Spectrum The level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 1 ms YBW 300 kHz Mode Auto Sweep SGL Count 7000/7000 Ims YBW 300 kHz Mode Auto Sweep 9 IPk Max	/ IN I			19	15	Pass						
Spectrum The level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 1 ms YBW 300 kHz Mode Auto Sweep SGL Count 7000/7000 Ims YBW 300 kHz Mode Auto Sweep 9 IPk Max				Hopp	ing No.	NVNT 1	I-DH5	5 2402N	ЛНz			
Att 40 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep SGL Count 7000/7000 Image: SGL Count 7000/7000 Image: SGL Count 7000/7000 Image: SGL Count 7000/7000 IPL Max		Spectr	um		-							7
SGL Count 7000/7000 IPIK Max M1[1] 3.55 dBm 20 dBm M2[1] 6.75 dBm 10, dBm M2[1] 2.479993835Hz 0 dBm M2[1] 2.479993835Hz -10 dBm M2[1] 0.400000000000000000000000000000000000							Mode A	uto Sweep				
20 dBm												Ъ
10, dBm 6.75 dBm 0 dBm 2.4799930(2)Hz -10 dBm -10 dBm -20 dBm -10 dBm -30 dBm -10 dBm -30 dBm -10 dBm -50 dBm -10 dBm -50 dBm -10 dBm -70 dBm -10 dBm -10 dBm -10 dBm		20 dBm-					м	1[1]		2.4		
0 #Bm1 0 #Bm1 0							M	2[1]			6.75 dBi	m
-10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -60 dBm -70				AADAAAAAAAAA	A.B.o. a.o. a.o.	алалалада	A A A A A A A	ABADAJA			AAAAAX	
-20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -40 dBm -30 dBm -30 dBm -30 dBm -50 dBm -30 dBm -30 dBm -30 dBm -50 dBm -30 dBm -30 dBm -30 dBm -50 dBm -30 dBm -30 dBm -30 dBm -60 dBm -30 dBm -30 dBm -30 dBm -70 dBm -30 dBm -30 dBm -30 dBm -70 dBm -30 dBm -30 dBm -30 dBm Marker -30 dBm -30 dBm -30 dBm Marker -30 dBm -30 dBm -30 dBm M1 1 2.401837 GHz 3.55 dBm		- 10000	ANADADADAR	IVIIIIIII	HARBER	636363366	NUM	(WWW)	AL AL AL	1000	WWW	1
-30 dBm -40 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -70				10-0-0-00F1	101000	<u>I A A A A A A A A A A A A A A A A A A A</u>	 		MARINAL	MARARA	***	1
-40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm Marker -70 dBm -70 dBm -70 dBm Marker -70 dBm -70 dBm -70 dBm M1 1 2.401837 GHz 3.55 dBm												1
Story Story <th< td=""><td></td><td>-30 dBm-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></th<>		-30 dBm-										1
-60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm Stop 2.4835 GHz Start 2.4 GHz 1001 pts Stop 2.4835 GHz Stop 2.4835 GHz Marker -70 pt Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm -70 dBm -70 dBm		- <mark>4</mark> 0 dBm-										s.Le
-70 dBm -70 dBm Stop 2.4835 GHz Start 2.4 GHz 1001 pts Stop 2.4835 GHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm 5 5 5		-50 dBm-										1
Start 2.4 GHz 1001 pts Stop 2.4835 GHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm 5.55 dBm 5.55 dBm		-60 dBm-										-
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.401837 GHz 3.55 dBm			1 CH2			1001 pt	-			Stop	2 4025 CH	
M1 1 2.401837 GHz 3.55 dBm						1001 pt						1
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion Read	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion Read	Fund			
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		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			
		Type M1	1	2.401837 0	GHz	- value 3.55 dBm		tion	Fund			



8.6 BAND EDGE

Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH5	2402	Ant 1	No-Hopping	-44.46	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-44.04	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-47.23	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-47.24	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-45.71	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-46.04	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-48.67	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-49.3	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-46.38	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-47.12	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-50.57	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-49.77	-20	Pass







					M1[1]			.86 dBm
20 dBm 10 dBm					M2[1]		-45	000 GHz .41 dBm
IO aBW						1	2.40000	000¦GHz ▼
0 dBm-	+						+	
-10 dBm								
-10 0011	· •	-16.0	20_dBm					
-20 dBm	n	-10.0					+	$-\mathbf{n}$
-30 dBm								1
-30 ubn	"		M4					
-40 dBm				alare the other states to be			M3	M2
, հեղ, է դար -50 dBm		harden	wrothen provided by the	Hundersonwalanda	uning and the	hohm - when have	have the solder of the	rulas huup
-50 übn	"							
-60 dBm	∩+-							
-70 dBm								
Start 2		GHz		1001 pt	s		Stop 2.4	06 GHz
Marker								
Type	Ref	Trc	X-value	Y-value	Function	Fun	ction Result	
		1	2.40185 GHz	3.86 dBm				
M1		1	2.4 GHz 2.39 GHz	-45.41 dBm -46.01 dBm				
M1 M2				40.01 GDIII				
M1		1	2.3408 GHz	-40.48 dBm				





Spectrum	1								
Ref Level			7.62 dB 👄 R						(
Att	40 dB	SWT 23	27.5 µs 👄 ۷	'BW 300 kH	z Mode	Auto FFT			
SGL Count 1Pk Max	1200/1200								
					M	1[1]			3.61 dBm
20 dBm —					<u> </u>				05000 GHz
10 dBm					M	2[1]			44.91 dBm 00000 <mark>ឲ្រអ្</mark> អz
									MAL
									MM
-10 dBm									1970
-20 dBm	D1 -16.104	dBm							- / ·
-30 dBm			M4						
-40 dBm	a at a me	ala terraria a		myleseconterengenting		and see by	merenand	43 	M2
-50 dBm	e-freebrighter	mhalmlynia	6/4UU	14	mand	all a state of the	and a second	and the second of	manan
-60 dBm									
-70 dBm									
Start 2.306	i GHz			1001	pts			Stop 2	2.406 GHz
larker Tuma Daf	Tuel	M. umbur		Y-value	Func	Non 1	E	tion Result	
Type Ref M1	1	X-value 2.403	9 OS GHZ	3.61 dB	_	tion	Fund	tion Result	
M2	1		2.4 GHz	-44.91 dB					
M3 M4	1		87 GHz	-43.33 dB					
	1	2.34	29 GHz I	-40.15 dB	m				
	1	2.34	29 GHz	-40.15 dB	Im	Pear			2
		2.34	29 GHz	-40.15 dB	Im] Read			1
][) Ant1 No	v 🛄	na Ref	
	Band) Ant1 No	b-Hoppii	ng Ref	
Spectrum	Band	Edge N	VNT 1-I	DH5 24	80MHz /) Ant1 No	o-Hoppin	ng Ref	
Spectrum Ref Level	Band	Edge N	VNT 1-I	DH5 24	BOMHz .		o-Hoppii	ng Ref	
Spectrum Ref Level : Att	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	BOMHz .		o-Hoppin	ng Ref	
Spectrum Ref Level	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	o-Hoppin	ng Ref	
Spectrum Ref Level Att SGL Count 1Pk Max	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /		o-Hoppin		5.02 dBm
Spectrum Ref Level : Att SGL Count) IPk Max	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	o-Hoppin		
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	o-Hoppin		5.02 dBm
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm 10 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : Att SGL Count	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count) IPk Max 20 dBm 10 dBm 0 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count) IPk Max 20 dBm 10 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count 1Pk Max 20 dBm 10 dBm 10 dBm 	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT	p-Hoppin		5.02 dBm
Spectrum Ref Level : SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 27.60 dBm 40 dB	Edge N	VNT 1-I	DH5 24	80MHz /	uto FFT			5.02 dBm

1001 pts

-60 dBm-

CF 2.48 GHz

Span 8.0 MHz

100



	dBm Offset 7	.60 dB 👄 RBW 100 kH	łz		(=
		27.5 µs 👄 VBW 300 kH	Iz Mode Auto FF1	Г	
Count 100/10	00				
Max			MILII		5.01 dBm
m			M1[1]	2.4	8015000 GHz
			M2[1]		-45.92 dBm
m				2.4	8350000 GHz
3m 01 14	070 40				
Sm-01 -14	4.978 dBm				
Im-					
Singer-	M4			#	
monorint	remarkation	hours worked in the work of the second	her manual we make in	in full al remains	hours and the second
Im					
m					
2.476 GHz		1001	Inte	Stor	p 2.576 GHz
r.		1001	i pis	510	5 2.370 GH2
Ref Trc	X-value	Y-value	Function	Function Res	ılt
1 1		15 GHz 5.01 dB	3m		
2 1	2.483	35 GHz -45.92 dB			
3 1	. 2.	.5 GHz -45.41 dB 36 GHz -42.22 dB			
3 1	. 2.	.5 GHz -45.41 dE 86 GHz -42.22 dE			1.173
3 1	. 2.			eady (()))	iya /
	. 2 . 2.498	36 GHz -42.22 dE	3m	z Apt1 Hopping	w
Band	. 2 . 2.498	36 GHz -42.22 dE	3m	z Ant1 Hopping I	_
	. 2 . 2.498	36 GHz -42.22 dE	3m	z Ant1 Hopping I	Kef
Band trum evel 27.60	Edge(Hopp	60 dB ● RBW 100 kHz	oH5 2480MH	z Ant1 Hopping I	Ē
Band strum evel 27.60	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	-42.22 de	oH5 2480MH	z Ant1 Hopping I	Ē
Band Band evel 27.60 4 Count 8009/8	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	oH5 2480MH	z Ant1 Hopping I	Ē
Band strum evel 27.60	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:	z Ant1 Hopping I	
Band Band evel 27.60 4 Count 8009/8 Max	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	oH5 2480MH		Ē
Band Band evel 27.60 4 Count 8009/8	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23 dBm
Band Band evel 27.60 4 Count 8009/8 Max	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23 dBm
Band Band evel 27.60 4 Count 8009/8 Max	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23 dBm
Band Band evel 27.60 44 Count 8009/6 Max	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23 dBm
Band Band evel 27.60 4 Count 8009/8 Max	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23 dBm
Band Band Etrum evel 27.60 44 Count 8009/6 Max	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23 dBm
Band Band evel 27.60 44 Count 8009/6 Max	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23 dBm
1 1 Band vel 27.60 44 unt 8009/8	2.498 2.498 Edge(Hopp dBm Offset 7.1 0 dB swr 18	60 dB ● RBW 100 kHz	DH5 2480MH:		5.23

1001 pts

-30 dBm

-50 dBm--60 dBm--70 dBm-

CF 2.48 GHz

Span 8.0 MHz

1.00



Att	7.60 dBm? 40 dB			RBW 100 kHz VBW 300 kHz		Auto FFT			
SGL Count 1 1Pk Max	.000/1000								
					м	1[1]			5.14 dBm
20 dBm					M	2[1]			15000 GHz 43.79 dBm
10 dBm						1	I	2.483	50000 GHz
9 d6m									
110 dBm									
-20 cBm	01 -14.774	dBm							
-30 cBm									
		14 M3							
	nor and the second s	June My market	where we want where the second	mapping	proved the little provided that the provided that the provided is the provided of the provided	numpuu	wheel man was	when men	a permanen
-50 dBm									
-60 dBm									
-70 dBm	CH2			1001	nts			Stop	2.576 GHz
larker	GHZ			1001	pts			Stop .	2.370 GH2
Type Ref M1	Trc 1	X-value	15 GHz	Y-value 5.14 dBr	Func	tion	Fund	tion Result	:
M2	1		35 GHz	-43.79 dBr					
M3 M4	1 1	2	55 GHz 59 GHz	-43.79 dBi -43.71 dBi -42.02 dBi	m				
M3 M4 Spectrum	Band	2 2.496 Edge N	VNT 2-	-43.71 dBr -42.02 dBr DH5 240	m m D2MHz /) Ant1 Nc	o-Hoppir	ng Ref	
M3 M4 Spectrum Ref Level 2 Att	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	m D2MHz		-Hoppin	ng Ref	
M3 M4 Spectrum Ref Level 2	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	m D2MHz / Mode A	uto FFT	-Hoppir	ng Ref	
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	m D2MHz / Mode A		-Hoppir		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	m D2MHz / Mode A	uto FFT	0-Hoppin		
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	m D2MHz / Mode A	uto FFT	0-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	Mode A	uto FFT	0-Hoppir		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm 	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	Mode A	uto FFT	p-Hoppir		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 PIPk Max 20 dBm 10 dBm 	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 91Pk Max 20 dBm 10 dBm 0 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz	Mode A	uto FFT	p-Hoppir		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm 0 10 dBm 0 20 dBm 0 30 dBm 0 40 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	.5 GHz 59 GHz VNT 2- 62 dB • R	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm 0 10 dBm 0 -20 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm
M3 M4 Spectrum Ref Level 2 Att SGL Count 1 SGL Count 1 PIPk Max 20 dBm 0 10 dBm 0 20 dBm 0 30 dBm 0 40 dBm	1 1 Band 27.62 dBm 40 dB	2 2.490 Edge N Offset 7.	5 GHz 59 GHz VNT 2- 62 dB • R 3.9 μs • V	-43.71 dBr -42.02 dBr DH5 240 BW 100 kHz BW 300 kHz	Mode A	uto FFT	p-Hoppin		(∆ 5.33 dBm



Ref Level Att SGL Count 1Pk Max	1 27.62 dBm 40 dB t 100/100		7.62 dB 👄 R 27.5 µs 👄 V			luto FFT			
20 dBm					M	1[1]		2 402	4.17 dBm 05000 GHz
10 dBm					M:	2[1]		-	46.92 dBm 0000016Hz
0 dBm									<u>X</u>
-10 dBm—									
-20 dBm—	-D1 -14.666	dBm							
-30 dBm—			M4						
-40 dBm—		a tradici		und-lookanny		Liter and to		MB	Ma
-50 dBm-	nerumaniterra	eren waya waa	and a second		en ganader and	www.willere	Alfrican a sulley and	M3 Null <mark>a</mark> thankal	outotude ouro
-60 dBm—									
-70 dBm	16 GHz			1001	nts			Stop	2.406 GHz
Marker Type Re				1001	prs			3000	2.400 GH2
MЗ									
M4	and Edg	2.34	39 GHz 05 GHz Ding) NV	-46.05 dB -40.38 dB	m) 2MHz A	Ant1 Hoj	oping R	ef
B Spectrur Ref Level Att SGL Count		2.34 ge(Hopp Offset 7.	05 GHz	-40.38 dB	m H5 240		Ant1 Hop	oping R	ef
B Spectrur Ref Level Att	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At		Ant1 Hop		5.96 dBm
B Spectrur Ref Level Att SGL Count	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT	Ant1 Hop		
B Spectrur Ref Level Att SGL Count 1Pk Max	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT	Ant1 Hop		5.96 dBm
B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm-	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm
B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm-	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm
B Spectrur Ref Level Att SGL Count IPk Max 20 dBm- 10 dBm- 0 dBm-	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm
B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm
B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm
B Spectrur Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm
B Spectrur Ref Level Att SGL Count 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm
B Spectrur Ref Level Att SGL Count 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	1 Band Edg m 1 27.62 dBm 40 dB	2.34 ge(Hopp Offset 7.	05 GH2 Ding) N\ 62 dB ● RE	-40.38 dB	m H5 240 Mode At	uto FFT			5.96 dBm



Ref Level 27.62 d Att 40			RBW 100 kHz VBW 300 kHz		Auto FFT			
SGL Count 1000/10 1Pk Max	000							
20 dBm				м	1[1]		2 402	5.18 dBm 15000 GHz
10 dBm				M	2[1]		-	44.41 dBm 00000%GHz
) dBm								Linu
10 dBm	000 40-							
20 dBm	036 dBm							
30 dBm								
40 dBm	الدينية المراجع	monter	M4	w.h.m.m.m.	an an an all the	unne generation	M3	M2
50 dBm	and the state of t				Creecing and Million	er ward and a	eren forman	- News
60 dBm								
70 dBm								
Start 2.306 GHz Iarker			1001	pts			Stop 2	2.406 GHz
Type Ref Trc	X-value		Y-value 5.18 dBr	Func	tion	Fund	tion Result	
M1 1 M2 1	2	2.4 GHz	-44.41 dBr					
M3 1	2.	39 GHz	44 50 404	20				
		86 GHz	-44.59 dBr -40.09 dBr -DH5 248	n) and Ant1 No	o-Hoppin	ng Ref	
Bar Spectrum Ref Level 27.60 d	2.34 nd Edge N IBm Offset 7	86 GHZ VNT 2- .60 dB • F	-40.09 dBr	BOMHz /		o-Hoppir	ng Ref	
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100	2.34 nd Edge N IBm Offset 7 dB SWT 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	BOMHz /		-Hoppir	ng Ref	
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100	2.34 nd Edge N IBm Offset 7 dB SWT 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A		D-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d	2.34 nd Edge N IBm Offset 7 dB SWT 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A	uto FFT	o-Hoppin		
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 PIPk Max	2.34 nd Edge N IBm Offset 7 dB SWT 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A	uto FFT	o-Hoppir		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A	uto FFT	0-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 0 dBm 10 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 101Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 20 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr -DH5 248 RBW 100 kHz	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 101Pk Max 20 dBm 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GHZ VNT 2- .60 dB • F	-40.09 dBr	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 DIPk Max 20 dBm 10 dBm 10 dBm 20 dBm 40 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GH2	-40.09 dBr	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/101 01Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 10 dBm 40 dBm 40 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GH2	-40.09 dBr	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/100 10Pk Max 20 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GH2	-40.09 dBr	Mode A	uto FFT	p-Hoppin		 5.75 dBm
Bar Spectrum Ref Level 27.60 d Att 40 SGL Count 100/101 101Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 10 dBm 40 dBm 50 dBm	2.34 nd Edge N IBm Offset 7 dB swr 1	86 GH2	-40.09 dBr	Mode A	uto FFT			 5.75 dBm



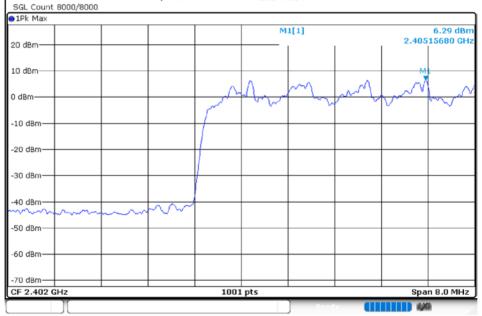
pect		L								
ef Le tt	vel 2	7.60 dB 40 i			RBW 100 kH VBW 300 kH		Auto FFT			
	ount 1	00/100			- 1211 000 KH		AND FFT			
lPk M	ах									
) dBm						M	1[1]		2 490	4.87 dBm 15000 GHz
o abiii						м	2[1]			45.24 dBm
	+						1		2.483	50000 GHz
d8m-	+				_					
0 cBn										
о свп	D	1 -14.2	52 dBm							
0 dBn	∩+			<u> </u>						
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77		M4								
0 dBn	m2 Mush	dellar	M3	alien phines	when when when	Martin Martha	and works	and me and	all manaruly	an an an and
i0 dBn		erre i re				1. 19 . W. 19 . 19 . 19 . 19 . 19 . 19 .		and a contract of the contract	10 .	An acceler
50 dBn										
70 dBn	n	CH2			1001	nts			Stor	2.576 GHz
arker	.470	GHZ			1001	pts			Stup 2	2.370 GHZ
	Ref	Trc	X-valu	e	Y-value	Func	tion	Fund	tion Result	
M1		1		15 GHz	4.87 dB					
M2 M3		1		35 GHz 2.5 GHz	-45.24 dB -46.00 dB					
M4		nd E	2.49	05 GHz	-42.92 dB	m) BOMHz /	o 🚺 Ant1 Ho	pping R	
pect	rum		2.49 dge(Hop m Offset 7	ping) N	-42.92 dB	m H5 248		Ant1 Ho	pping Re	ef
pect tef Le	rum vel 2 ount 8	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m H5 248		Ant1 Ho	pping R	
ipect Ref Le	rum vel 2 ount 8	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho	pping R	
pect tef Le GL Co LPk M	vel 2 ount 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A		Ant1 Ho		
pect tef Le Mtt GGL Co 1Pk M	vel 2 ount 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le tt GL Co LPk M	ovel 2 ount 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le GL Co IPk M) dBm) dBm	ovel 2 ount 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le tt GL Co Pk M I dBm	ovel 2 ount 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le tt GL Cr Pk M) dBm) dBm	ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
ipect tef Lef LGL Cr IPk M J dBm J dBm J dBm	ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le GL Cc IPk M) dBm) dBm 0 dBm	ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
ipect tef Le tt GL Co 1Pk M D dBm D dBm - O dBm	ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
ipect Ref Le IPk M D dBm D dBm dBm D dBm 0 dBm	arum 2 punt 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect tt GLCC PKM IdBm IdBm OdBm 0 dBm	arum 2 punt 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le tt GL Co Pk M) dBm) dBm 0 dBm 0 dBn 0 dBn	arum vel 2 punt 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect tef Le GL Co IPk M D dBm D dBm D dBm 0 dBm 0 dBm	arum vel 2 punt 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le tt J dBm J dBm	rum vel 2 Junt 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect Ref Le Att GGL Co	rum vel 2 Junt 8 ax	nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le GL Co PK M) dBm) dBm) dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm		nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
pect ef Le tt <u>GL CC</u> PK M) dBm) dBm 0 dBm 0 dBm 0 dBm		nd E	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	m 145 248 Mode A	uto FFT	Ant1 Ho		7.11 dBm
Dect af Le tt dBm dBm dBm dBm dBm dBm dBm dBm		M1	2.49 dge(Hop m Offset 7 db swr 1	ping) N	-42.92 dB	Mode A	uto FFT	Ant1 Ho	2.477	7.11 dBm



RefLevel 27.60 da Att 40			RBW 100 kHz VBW 300 kHz		Auto FFT			
5GL Count 1000/10				- Mode /	440000			
1Pk Max					4741			E 1E dBm
0 dBm					1[1]		2.478	5.15 dBm 05000 GHz
adBm				M	2[1]			43.21 dBm 50000 GHz
#8m								
LO cBm D1 -12.6	993 dBm							
20 GBm								
10 dBm M2 M4								
10 dBm	to pure with got man	militaria	munnundy	gen shallow you	thenmantyline	konerether _d enseeder	www.pusher	alay you have a start
50 dBm								
70 dBm								
tart 2.476 GHz			1001	pts			Stop :	2.576 GHz
arker Type Ref Trc	X-value		Y-value	Fund	tion	Fund	tion Result	
M1 1	2.478	05 GHz	5.15 dBr	m		T dife	cion ressure	
M2 1 M3 1	2.48	35 GHz	-43.21 dBr					
M4 1 Ban	2.48 d Edge N			m) Room Ant1 No	D-Hoppir	ng Ref	
Ban Bectrum tef Level 27.62 di	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr	m		o-Hoppir	ng Ref	
M4 1 Ban pectrum tef Level 27.62 di tt 40 GGL Count 300/300	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240)2MHz		D-Hoppir	ng Ref	
M4 1 Ban pectrum tef Level 27.62 di tt 40 GGL Count 300/300	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240)2MHz / Mode A	uto FFT	o-Hoppir	ng Ref	
M4 1 Ban Ref Level 27.62 di Ref Level 27.62 di Ref Level 20.300 IPk Max	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240)2MHz / Mode A		p-Hoppir		5.01 dBm 15180 GHz
M4 1 Ban Ref Level 27.62 di Att 40 GGL Count 300/300 1Pk Max 0 dBm	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban pectrum tef Level 27.62 di ttt 40 GGL Count 300/300 IPk Max 0 dBm 0 dBm	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz / Mode A	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban pectrum tef Level 27.62 di ttt 40 GGL Count 300/300 IPk Max 0 dBm dBm	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban pectrum tef Level 27.62 di tet 100/300 IPk Max 0 dBm 0 dBm 0 dBm	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban Spectrum 40 SGL Count 300/300 10 IPK Max 0 dBm 0 dBm 0 dBm 10 dBm 10 10 10	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban Spectrum 40 SGL Count 300/300 10 IPK Max 0 dBm 0 dBm 0 dBm 10 dBm 20 dBm 20	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban spectrum 40 SGL Count 300/300 10 IPK Max 0 dBm 0 dBm 0 dBm 10 dBm 0 0 0 20 dBm 0 0 0 0 10 dBm 10 0 10 10 10 20 dBm 20 0 0 10 <th10< th=""> <t< td=""><td>2.48 d Edge N 3m Offset 7. dB SWT 14</td><td>87 GH2 VNT 3- 62 dB • R</td><td>-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz</td><td>)2MHz /</td><td>uto FFT</td><td>p-Hoppir</td><td></td><td>Δ 5.01 dBm</td></t<></th10<>	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban spectrum Ref Level 27.62 dl M4 40 SGL Count 300/300 IPK Max 0 dBm 0 dBm 0 dBm 0 dBm 80 dBm 80 dBm 40 dBm	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban Ban Spectrum 27.62 di Mt 40 SGL Count 300/300 1Pk Max D dBm 0 D dBm 0 00 dBm 0	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm
M4 1 Ban Spectrum Ref Level 27.62 di	2.48 d Edge N 3m Offset 7. dB SWT 14	87 GH2 VNT 3- 62 dB • R	-42.19 dBr DH5 240 BW 100 kHz BW 300 kHz)2MHz /	uto FFT	p-Hoppir		Δ 5.01 dBm



				M1[1]	2.40	6.14 dBm 185000 GHz
				M2[1]		-45.99 dBm
.0 dBm					2.40	000000 ¹ снz
dBm						
						1 0 1
10 dBm	01 -14.995	dam				
20 dBm	/1 -14.995	, doin				
20 d0m						
30 dBm		M4				
40 dBm —		_			M3	MA
հ վչութեսչչվ 50 dBm——	MUNIMUM	of the second which the second	would be an and when	mallow	when monound and the second	and the second
60 dBm						
70 dBm						
tart 2.306	GHz		1001 pt	s	Stop	2.406 GHz
arker	1 - 1					
Type Ref M1	Trc 1	2.40185 GHz	Y-value 6.14 dBm	Function	Function Resul	t
M2	1	2.4 GHz	-45.99 dBm			
1712	1	2.39 GHz	-43.91 dBm			
MЗ			-41.37 dBm			
	1	2.342 GHz				





Ref Level Att	27.62 dBm 40 dB			RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			`
SGL Count	1000/1000								
-					M	1[1]			1.30 dBm
20 dBm						2[1]			605000 GHz -43.20 dBm
10 dBm						2[1]	1		000000 GHz M1
0 dBm									MM
-10 dBm	D1 -13.709	dam							
-20 dBm—	01 -13.709								
-30 dBm				M4					
-40 dBm مرابا العام المالي	and when all the	ortherence	mound		المحمد والمساهد	and have also	he have have have been and have been a series of the serie	MO.	M2
-50 dBm—									
-60 dBm									
-70 dBm									
Start 2.300 Marker	6 GHz			1001 p	ots			Stop	2.406 GHz
	f Trc	X-value	•	Y-value	Funct	tion	Fund	tion Result	:
M1 M2	1		05 GHz	1.30 dBm -43.20 dBm					
M3		2							
1413	1	2.3	39 GHz	-44.64 dBm					
M4 Spectrum	Band	2.350	07 GHz	-44.64 dBm -40.84 dBm -DH5 2480		Ant1 No	b-Hoppin	ng Ref	
M4 Spectrum	Band	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm	0MHz /		o-Hoppin	ng Ref	
M4 Spectrum Ref Level Att SGL Count	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz	0MHz /		o-Hoppin	ng Ref	
M4 Spectrum Ref Level Att	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz	OMHZ / Mode Au	uto FFT	o-Hoppin	ng Ref	
M4 Spectrum Ref Level Att SGL Count 1Pk Max	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz	OMHZ / Mode Au		b-Hoppin		7.30 dBm 115180 GHz
M4 Spectrum Ref Level Att SGL Count	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz	OMHZ / Mode Au	uto FFT	p-Hoppir		
M4 Spectrum Ref Level Att SGL Count 1Pk Max	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz	OMHZ / Mode Au	uto FFT	b-Hoppin		
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz	OMHZ / Mode Au	uto FFT	b-Hoppin		
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm-	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz	OMHZ / Mode Au	uto FFT	p-Hoppir		
M4 Spectrum Ref Level Att SGL Count O dBm 0 dBm 0 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz	OMHZ / Mode Au	uto FFT	p-Hoppin		
M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm -DH5 248(RBW 100 kHz VBW 300 kHz	OMHZ / Mode Au	uto FFT	p-Hoppir		
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm	OMHZ / Mode Au	uto FFT	p-Hoppin		
M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm	OMHZ / Mode Au	uto FFT	p-Hoppin		
M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm	OMHZ / Mode Au	uto FFT	p-Hoppir		
M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm	OMHZ / Mode Au	uto FFT	p-Hoppir		
M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm	OMHZ / Mode Au	uto FFT			
M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	1 Band 27.60 dBm 40 dB	2.350 Edge N Offset 7.	VNT 3	-40.84 dBm	OMHZ / Mode Au	uto FFT	p-Hoppir		



pectrum								
ef Level 27.60 dBm			BW 100 kHz					
tt 40 dB GL Count 100/100	SWT 227	7.5 µs 🥌 🗸	' BW 300 kHz	Mode /	Auto FFT			
LPk Max								
) dBm				M	1[1]		0.400	4.82 dBm
J dBm				M	2[1]			15000 GHz 46.04 dBm
	++							50000 GHz
d8m								
D cBm D1 -12.697	7 dBm							
0 dBm	++							
VM I								
0 dBm ₁₂ M	M3 When the Anished	a mar	A. S. Land	المالية مريد	Constant	A in an inde	J. Monoul	يوليد المعالمة الم
0 dBm	anoresestally a	pu/	a walaawa ya mandh	karran kudal	www.two.lunt	e martha allan	10 ⁻¹⁴ · · · ·	. Archimtrellere
0.40								
0 dBm								
0 dBm	<u> </u>			-				
tart 2.476 GHz			1001	pts			Stop 2	2.576 GHz
orker Type Ref Trc	X-value	1	Y-value	Func	tion	Fund	tion Result	1
M1 1	2.48019	5 GHz	4.82 dBn	n			rion no sure	
M2 1 M3 1	2.4835		-46.04 dBn					
M3 1 M4 1		5 GHz	-46.32 dBn	n				
		9 GHz	-43.28 dBn) Read	· •		
Band Ed	ge(Hoppi) 0MHz A	nt1 Ho	oping R	_
Band Ed	ge(Hoppi	ing) N∖	/NT 3-DI) OMHz A	unt1 Hop	oping R	ef
Band Ed	ge(Hoppi	ing) N\ □ dB ● RB	/NT 3-DI	H5 248		nt1 Ho	oping R	Ē
Band Ed pectrum ef Level 27.60 dBm tt 40 dB	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248		ant1 Hoj	oping R	Ē
Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248		unt1 Hop	oping R	Ē
Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A		unt1 Hop		7.29 dBm
Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	ant1 Ho		
Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	ant1 Ho		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	ant1 Hop		7.29 dBm
Band Ed pectrum of Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm dBack dBm dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	ant1 Hop		7.29 dBm
Band Ed pectrum lef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max 0 dBm 0 dBm 0 dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 IPk Max 0 dBm 0 dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 /Pk Max 0 dBm 0 dBm 0 dBm 0 dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max I dBm I dBm 0 dBm 0 dBm 0 dBm 0 dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max 1 I dBm 1 I dBm 1 I dBm 1 0 dBm 0 0 dBm 0	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm ef Level 27.60 dBm tt 40 dB GL Count 8000/8000 Pk Max I dBm I dBm I dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm ide Level 2	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed pectrum ef Level 27.60 dBm tt 40 dB SL Count 8000/8000 Pk Max dBm dBm dBm dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm
Band Ed ectrum f Level 27.60 dBm t 40 dB L Count 8000/8000 k Max dBm dBm dBm dBm dBm dBm dBm dBm	ge(Hoppi Offset 7.6 swr 18.	ing) N\ □ dB ● RB	/NT 3-DI	H5 248 Mode A	uto FFT	Ant1 Hop		7.29 dBm

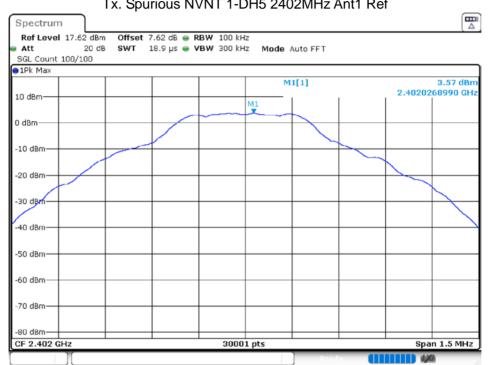


· _						
Ref Level 27.60 dBn						
Att 40 de		VBW 300 kHz	Mode Auto FF	т		
SGL Count 1000/100	D					
DIPK Max		_	544543			6.00 dBm
20 dBm			M1[1]		2 477	6.80 dBm 15000 GHz
20 0011			M2[1]			44.03 dBm
🔢 dBm						50000 GHz
			1			
իինքիս					1 1	
-10 cBm						
D1 -12.70	6 dBm					
20 dBm		_				
-30 dBm					+ +	
40 dBm12	NMA5					
and when a state of the second state of the se	warren on her war he through	and white warden and	unary allower	hold willing and	iner Whicher	mar Mar Mar
50 dBm				• • • •		
-60 dBm						
-70 dBm						
Start 2.476 GHz		1001 pt	<u>د</u>		Stop 2	2.576 GHz
larker		1001 pt	5		00001	
Type Ref Trc	X-value	Y-value	Function	Eun	ction Result	1
M1 1	2.47715 GHz	6.80 dBm	1 unotion		btion nobult	
M2 1	2.4835 GHz	-44.03 dBm				
M3 1	2.5 GHz	-43.74 dBm				
M4 1	2.4996 GHz	-42.48 dBm				



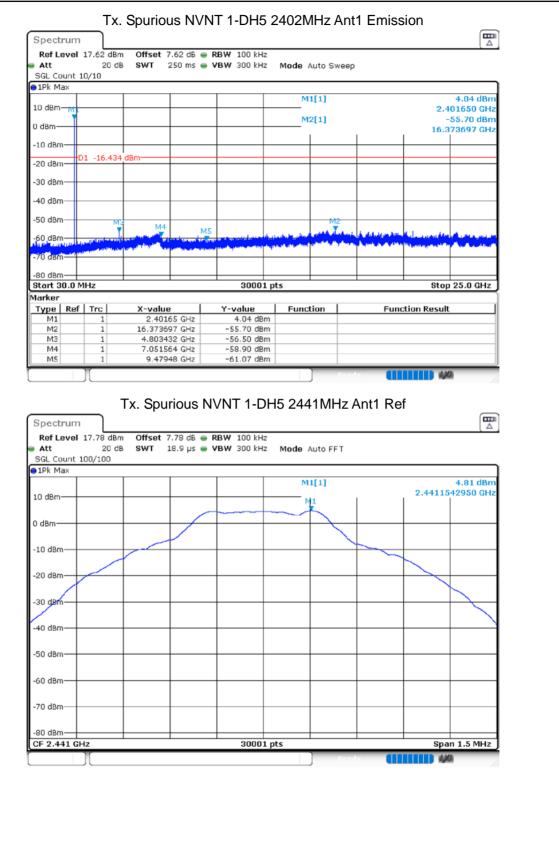
8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict			
NVNT	1-DH5	2402	Ant 1	-59.27	-20	Pass			
NVNT	1-DH5	2441	Ant 1	-58.85	-20	Pass			
NVNT	1-DH5	2480	Ant 1	-60.96	-20	Pass			
NVNT	2-DH5	2402	Ant 1	-61.15	-20	Pass			
NVNT	2-DH5	2441	Ant 1	-61.36	-20	Pass			
NVNT	2-DH5	2480	Ant 1	-63.44	-20	Pass			
NVNT	3-DH5	2402	Ant 1	-60.7	-20	Pass			
NVNT	3-DH5	2441	Ant 1	-61.51	-20	Pass			
NVNT	3-DH5	2480	Ant 1	-61.26	-20	Pass			

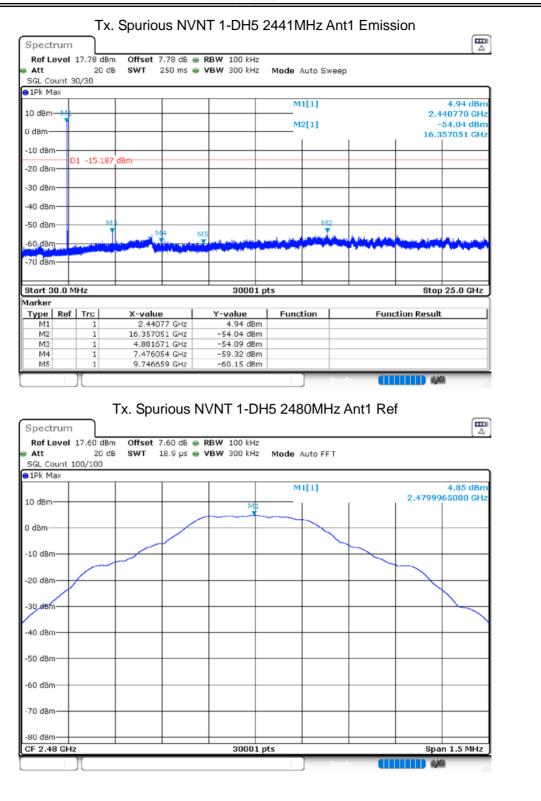


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

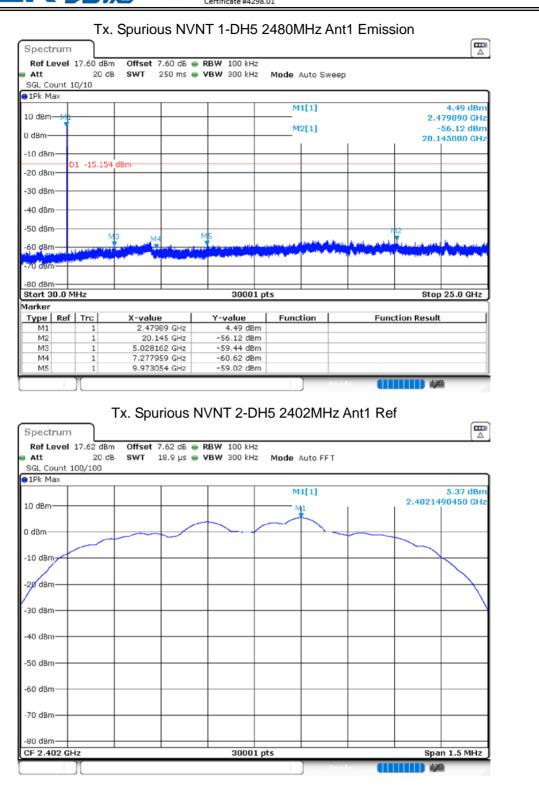




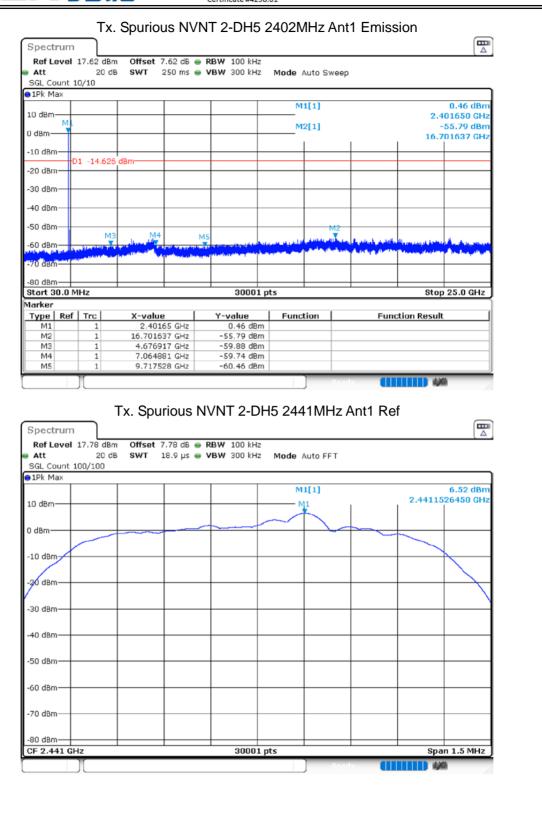




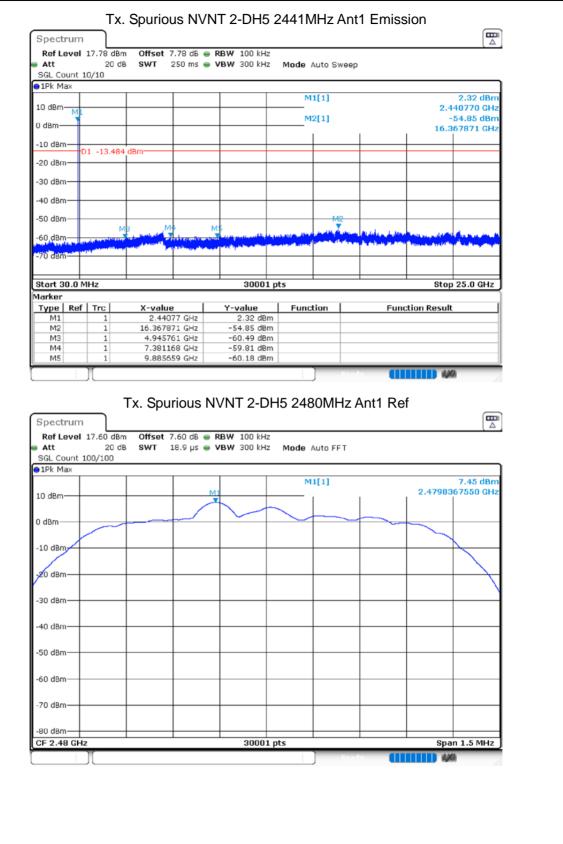




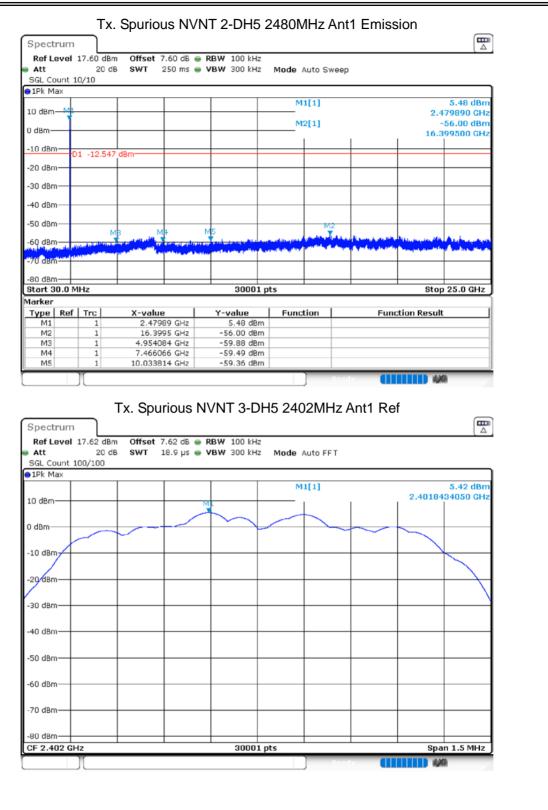




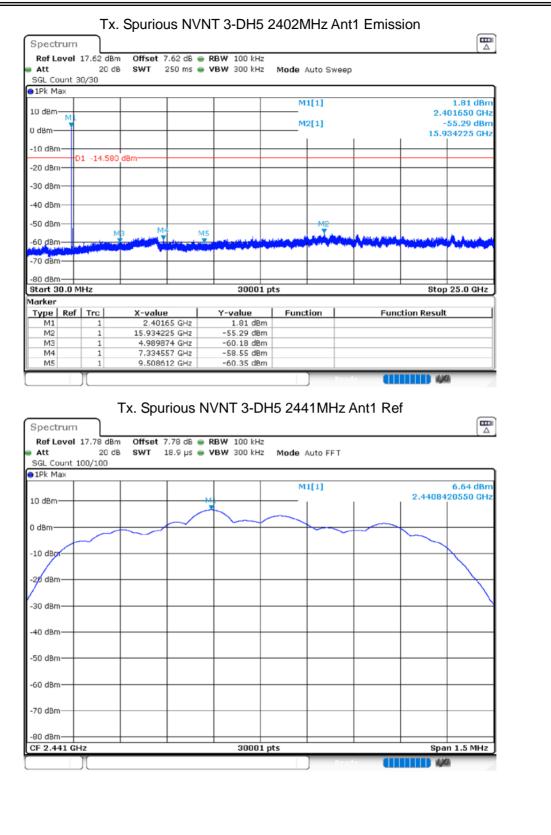




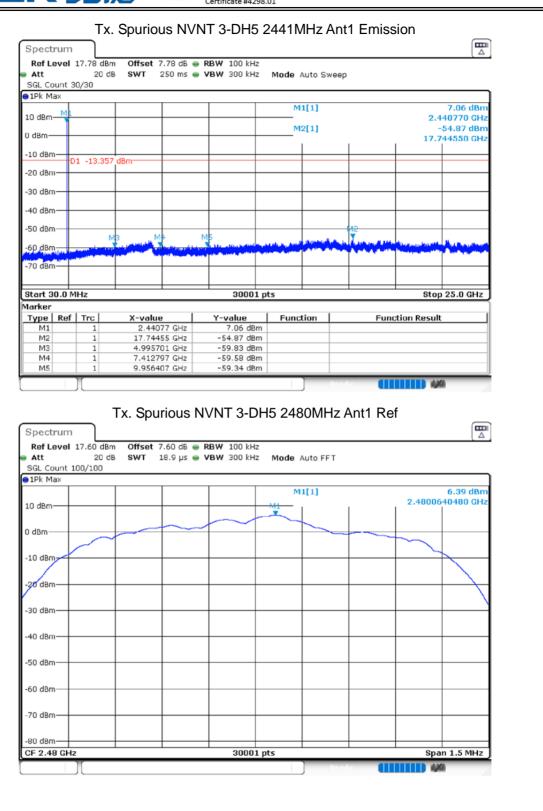




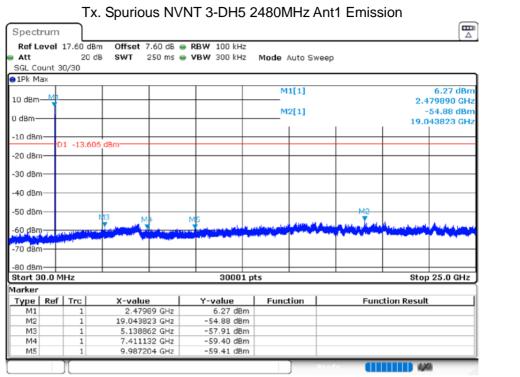












END OF REPORT