

RADIO TEST REPORT
poduci QRP-SP-008Produci QRP-SP-008Produci Mobile PhoneTrade Mark: AZUMIModel No.: V4Family Model: N/AReport No.: S19062502702001Isue Date: 17 Jul. 2019

Prepared for

Azumi S.A Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599 Website:http://www.ntek.org.cn





TABLE OF CONTENTS

ACCREDITED

1	TEST RESULT CERTIFICATION				
2	SUN	AMARY OF TEST RESULTS	4		
3	FAC	CILITIES AND ACCREDITATIONS	5		
	3.1 3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5		
4	GE	NERAL DESCRIPTION OF EUT	6		
5	DES	SCRIPTION OF TEST MODES	8		
6	SET	TUP OF EQUIPMENT UNDER TEST	9		
	6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM SUPPORT EQUIPMENT EQUIPMENTS LIST FOR ALL TEST ITEMS	10		
7	TES	ST REQUIREMENTS	13		
	7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 7.10	CONDUCTED EMISSIONS TEST RADIATED SPURIOUS EMISSION NUMBER OF HOPPING CHANNEL HOPPING CHANNEL SEPARATION MEASUREMENT AVERAGE TIME OF OCCUPANCY (DWELL TIME) 20DB BANDWIDTH TEST PEAK OUTPUT POWER CONDUCTED BAND EDGE MEASUREMENT. SPURIOUS RF CONDUCTED EMISSION ANTENNA APPLICATION	18 27 28 29 30 31 32 33		
8	TES	ST RESULTS	35		
	8.1 8.2 8.3 8.4 8.5 8.6 8.7	DWELL TIME MAXIMUM CONDUCTED OUTPUT POWER OCCUPIED CHANNEL BANDWIDTH. CARRIER FREQUENCIES SEPARATION NUMBER OF HOPPING CHANNEL BAND EDGE CONDUCTED RF SPURIOUS EMISSION	40 45 50 55 56		



1 TEST RESULT CERTIFICATION

a con Calle 47, PH Ocean Plaza, Piso 16 Panama, Panama
DEN INDUSTRIAL BUILDING 16-26 UNG,HK
-

Measurement Procedure Used:

APPLICABLE STANDARDS

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

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

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

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

Date of Test	:	25 Jun. 2019 ~ 16 Jul, 2019
		Krang. Hu
Testing Engineer	:	
		(Mary Hu)
		Tason dien
Technical Manager	:	Aver 1
-		(Jason Chen)
		Sam. Cher
Authorized Signatory	:	
		(Sam Chen)

2 SUMMARY OF TEST RESULTS

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

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

2. All test items were verified and recorded according to the standards and without any deviation during the test.

This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.





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 Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	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%



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Mobile Phone			
Trade Mark	AZUMI			
FCC ID	QRP-SP-008			
Model No.	V4			
Family Model	N/A			
Model Difference	N/A			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK, π/4-DQPSK, 8-DPSK			
Bluetooth Version	BT V4.2			
Number of Channels	79 Channels			
Antenna Type	PIFA Antenna			
Antenna Gain	0.5dBi			
	DC supply: DC 3.8V/1500mAh from Battery or DC 5V from USB Port.			
Power supply	Adapter supply: Input: 100-240V~50-60Hz 0.2A Output: 5V500mA			
HW Version	V1			
SW Version	FS272_CF1_DRV_ONLY_90B_O26549			

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



Revision History				
Report No.	Version	Description	Issued Date	
S19062502702001	Rev.01	Initial issue of report	Jul 17, 2019	

Version.1.3





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.

|--|

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		
Nata AO accuration Operature de Environie a contrata des maximum autorit accura			

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.



SETUP OF EQUIPMENT UNDER TEST 6

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For AC Conducted Emission Mode

	AC PLUG	
E	UT	
Radiated Test Cases		
EL	JT	
Conducted Test Cases		
Measurement Instrument	EUT	

ducted tests and this temporary antenna connector is listed in the equipment list. 2. EUT built-in battery-powered, the battery is fully-charged.



6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

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

Notes:

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





6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

		lest equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2019.05.13	2020.05.12	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2018.10.08	2019.10.07	1 year
4	Test Receiver	R&S	ESPI7	101318	2019.05.13	2020.05.12	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2019.04.15	2020.04.14	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2018.12.11	2019.12.10	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2018.08.05	2019.08.04	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.12.11	2019.12.10	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2018.08.05	2019.08.04	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
16	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 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	AC Conduction Test equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period	
1	Test Receiver	R&S	ESCI	101160	2019.05.13	2020.05.12	1 year	
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year	
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year	
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year	
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year	
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year	
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year	

ACCREDI

Certificate #4298.01

ED

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) and KDB 174176 D01 Line Conducted FAQ v01r01

7.1.2 Conformance Limit

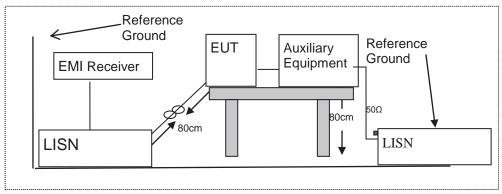
	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

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

2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Test Configuration



7.1.4 Test Procedure

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

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

7.1.5 Test Results

Pass



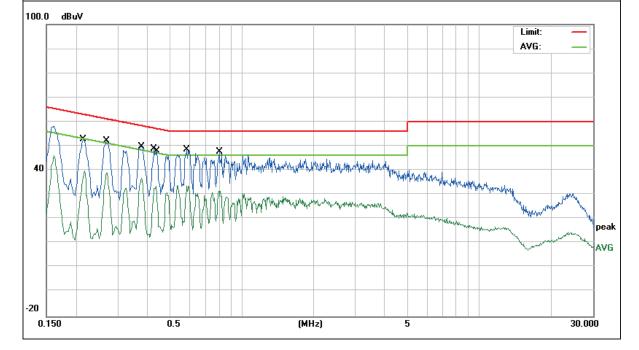
7.1.6 Test Results

EUT:	Mobile Phone	Model Name :	V4
Temperature:	26 ℃	Relative Humidity:	54%
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	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	- Remark
0.2139	52.67	0.00	52.67	63.05	-10.38	QP
0.2139	39.90	0.00	39.90	53.05	-13.15	AVG
0.2700	52.11	0.00	52.11	61.12	-9.01	QP
0.2700	39.01	0.00	39.01	51.12	-12.11	AVG
0.3780	49.79	0.00	49.79	58.32	-8.53	QP
0.3780	36.72	0.00	36.72	48.32	-11.60	AVG
0.4259	48.88	0.00	48.88	57.33	-8.45	QP
0.4339	33.45	0.00	33.45	47.18	-13.73	AVG
0.5859	48.61	0.00	48.61	56.00	-7.39	QP
0.5859	33.53	0.00	33.53	46.00	-12.47	AVG
0.8020	47.58	0.00	47.58	56.00	-8.42	QP
0.8020	31.59	0.00	31.59	46.00	-14.41	AVG

Remark:

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





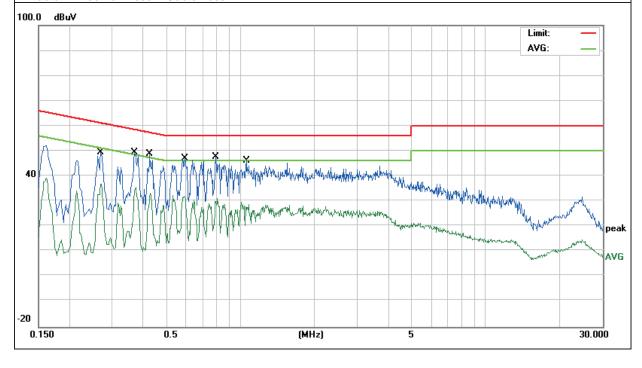
EUT:	Mobile Phone	Model Name :	V4
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

ACCREDITED

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domort
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2700	39.63	9.74	49.37	61.12	-11.75	QP
0.2700	27.12	9.74	36.86	51.12	-14.26	AVG
0.3699	39.83	9.75	49.58	58.50	-8.92	QP
0.3699	25.99	9.75	35.74	48.50	-12.76	AVG
0.4259	39.06	9.75	48.81	57.33	-8.52	QP
0.4299	23.46	9.75	33.21	47.25	-14.04	AVG
0.5939	37.27	9.75	47.02	56.00	-8.98	QP
0.5939	22.37	9.75	32.12	46.00	-13.88	AVG
0.7940	37.95	9.75	47.70	56.00	-8.30	QP
0.7940	21.46	9.75	31.21	46.00	-14.79	AVG
1.0580	36.55	9.75	46.30	56.00	-9.70	QP
1.0580	19.77	9.75	29.52	46.00	-16.48	AVG

Remark:

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





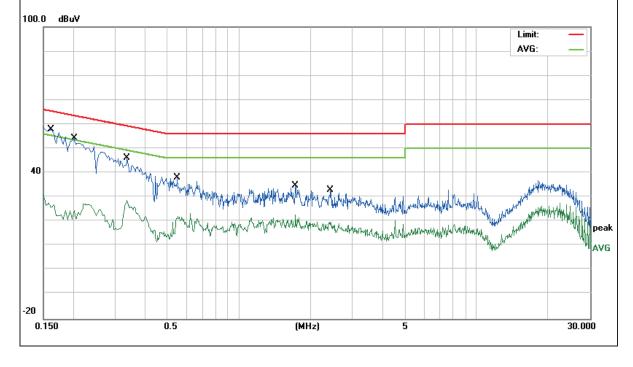
EUT:	Mobile Phone	Model Name :	V4
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Mode 1

ED

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	48.14	9.76	57.90	65.36	-7.46	QP
0.1620	17.75	9.76	27.51	55.36	-27.85	AVG
0.2020	44.44	9.76	54.20	63.52	-9.32	QP
0.2020	17.40	9.76	27.16	53.52	-26.36	AVG
0.3379	36.32	9.73	46.05	59.25	-13.20	QP
0.3379	19.06	9.73	28.79	49.25	-20.46	AVG
0.5500	28.18	9.74	37.92	56.00	-18.08	QP
0.5500	12.39	9.74	22.13	46.00	-23.87	AVG
1.7300	25.01	9.77	34.78	56.00	-21.22	QP
1.7300	12.85	9.77	22.62	46.00	-23.38	AVG
2.4260	23.07	9.79	32.86	56.00	-23.14	QP
2.4260	10.00	9.79	19.79	46.00	-26.21	AVG

Remark:

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





EUT:	Mobile Phone	Model Name :	V4
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Mode 1

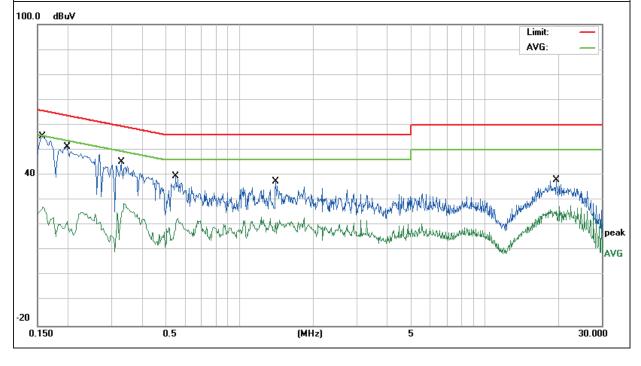
ACCREDITED

Certificate #4298.01

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	45.80	9.74	55.54	65.56	-10.02	QP
0.1580	17.60	9.74	27.34	55.56	-28.22	AVG
0.1980	41.46	9.73	51.19	63.69	-12.50	QP
0.1980	11.74	9.73	21.47	53.69	-32.22	AVG
0.3300	35.49	9.74	45.23	59.45	-14.22	QP
0.3300	18.90	9.74	28.64	49.45	-20.81	AVG
0.5500	29.73	9.75	39.48	56.00	-16.52	QP
0.5500	13.10	9.75	22.85	46.00	-23.15	AVG
1.4098	27.63	9.76	37.39	56.00	-18.61	QP
1.4098	12.54	9.76	22.30	46.00	-23.70	AVG
19.5939	27.82	10.20	38.02	60.00	-21.98	QP
19.5939	17.24	10.20	27.44	50.00	-22.56	AVG

Remark:

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





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 1 00 1 at 13.20	According to Foo Fart 13.200, Restricted barlos						
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)		
	PEAK	AVERAGE	
Above 1000	74	54	

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

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

3. For Frequency 9kHz~30MHz:

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

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

For Frequency above 30MHz:

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

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

Report No.: S19062502702001

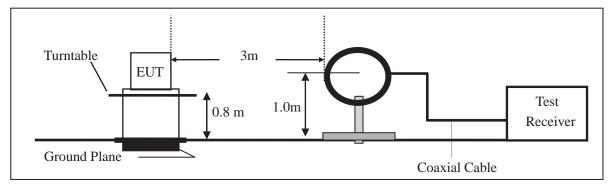


7.2.3 Measuring Instruments

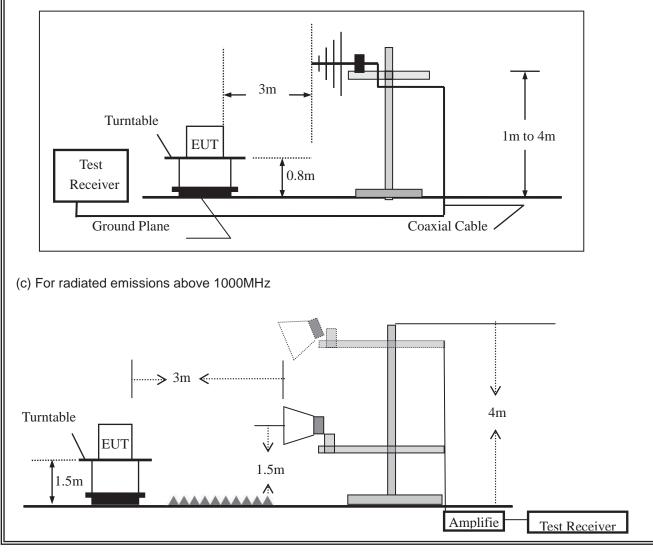
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz



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





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:

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

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

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

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



During 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
Above 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

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

7.2.6 Test Results

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

EUT:	Mobile Phone	Model No.:	V4
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

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

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





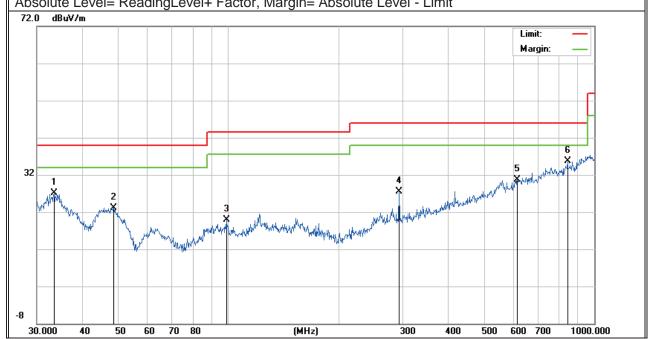
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Mobile Phone	Model Name :	V4
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.8V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	33.4449	9.78	17.42	27.20	40.00	-12.80	QP
V	48.6719	12.44	10.62	23.06	40.00	-16.94	QP
V	98.8326	8.38	11.49	19.87	43.50	-23.63	QP
V	293.0842	11.84	15.59	27.43	46.00	-18.57	QP
V	616.3718	5.89	24.72	30.61	46.00	-15.39	QP
V	845.0878	7.17	28.60	35.77	46.00	-10.23	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





Report No.: S19062502702001

Polar	Frequ	uency		eter ding	Factor	Emission Level		Limits	м	argin	R	emark
(H/V)	(M	Hz)	(dB	BuV)	(dB)	(dBuV/m)	(d	BuV/m)	(dB)		
Н	49.8	3814	11	.57	9.34	20.91		40.00	-1	9.09		QP
Н	85.2	2980	10	.96	9.79	20.75		40.00	-1	9.25		QP
Н		0842		.32	15.59	28.91		46.00		7.09		QP
Н		7226		.76	19.03	30.79		46.00		5.21		QP
Н		1082	_	91	27.47	34.38		46.00		1.62		QP
H Remarl		1301	6.	61	28.63	35.24		46.00	-1	0.76		QP
	e Level= u¥/m	Readin	g∟evel+		r, wargin=	Absolute Lev			Lin	nit:]	
									Ma	rgin:		
											[
			f							5	6 X	
32		k	2			and the second and th	www.www.www	4 wheel wheel	uMun ^{internen}	to Mound	@/`	
	Arwalter and the general	Mathian	www.www.www.	n Mannanan	with which which	Man garante and the second						
-8												
30.000	40 !	50 60	70 80		(MHz)		300	400 500	600	700	1000.0)00





 Spurious Emission Above 1GHz (1GHz to 25GHz) 											
EUT:		Mobile	Phone		Mod	el No.:		V4			
Temperatu	ire:	20 °C			Rela	tive Humic	lity:	489	48%		
Test Mode	:	Mode2	/Mode3/M	ode4	Test	: By:		Ma	ry Hu		
All the mod	lulation m	odes hav	e been tes	sted, a	nd th	e worst res	ult was	rep	ort as belo	ow:	
Frequenc y	Read Level	Cable loss	Antenna Factor	Prea Fac		Emission Level	Limit	s	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dE	3)	(dBµV/m)	(dBµV/	/m)	(dB)		
			Low Char	nnel (2	402 N	MHz)(8-DP	SK)Ab	ove	e 1G		
4804.704	61.84	5.21	35.59	44.	30	58.34	74.0	0	-15.66	Pk	Vertical
4804.704	42.07	5.21	35.59	44.:	30	38.57	54.0	0	-15.43	AV	Vertical
7206.642	59.46	6.48	36.27	44.	60	57.61	74.0	0	-16.39	Pk	Vertical
7206.642	40.65	6.48	36.27	44.	60	38.80	54.0	0	-15.20	AV	Vertical
4804.471	59.77	5.21	35.55	44.:	30	56.23	74.0	0	-17.77	Pk	Horizontal
4804.471	42.08	5.21	35.55	44.	30	38.54	54.0	0	-15.46	AV	Horizontal
7206.499	59.16	6.48	36.27	44.52		57.39	74.0	0	-16.61	Pk	Horizontal
7206.499	48.03	6.48	36.27	44.52		46.26	54.0	0	-7.74	AV	Horizontal
Mid Channel (2441 MHz)(8-DPSK)Above 1G											
4882.814	65.01	5.21	35.66	44.	20	61.68	74.0	0	-12.32	Pk	Vertical
4882.814	44.92	5.21	35.66	44.	20	41.59	54.0	0	-12.41	AV	Vertical
7323.417	62.35	7.10	36.50	44.	43	61.52	74.0	0	-12.48	Pk	Vertical
7323.417	45.58	7.10	36.50	44.	43	44.75	54.0	0	-9.25	AV	Vertical
4882.56	62.28	5.21	35.66	44.	20	58.95	74.0	0	-15.05	Pk	Horizontal
4882.56	50.44	5.21	35.66	44.	20	47.11	54.0	0	-6.89	AV	Horizontal
7323.474	61.21	7.10	36.50	44.	43	60.38	74.0	0	-13.62	Pk	Horizontal
7323.474	47.12	7.10	36.50	44.	43	46.29	54.0	0	-7.71	AV	Horizontal
			High Char	nnel (2	480 N	/Hz)(8-DP	SK) Al	bov	e 1G		
4960.568	63.98	5.21	35.52	44.	21	60.50	74.0	0	-13.50	Pk	Vertical
4960.568	43.93	5.21	35.52	44.	21	40.45	54.0	0	-13.55	AV	Vertical
7440.546	65.07	7.10	36.53	44.	60	64.10	74.0	0	-9.90	Pk	Vertical
7440.546	41.51	7.10	36.53	44.	60	40.54	54.0	0	-13.46	AV	Vertical
4960.51	64.99	5.21	35.52	44.	21	61.51	74.0	0	-12.49	Pk	Horizontal
4960.51	51.48	5.21	35.52	44.	21	48.00	54.0	0	-6.00	AV	Horizontal
7440.609	62.86	7.10	36.53	44.	60	61.89	74.0	0	-12.11	Pk	Horizontal
7440.609	46.00	7.10	36.53	44.	60	45.03	54.0	0	-8.97	AV	Horizontal

ACCRED

Certificate #4298.01

Note:

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





Report No.: S19062502702001

Spuric	ous Emissio	on in Restr	icted Band	2310-239	0MHz and	2483.	5-25	00MHz		
EUT:		Mobile P	hone	Mode	l No.:		V4			
Temperatu	ure:	20 °C		Relat	ive Humidit	y:	48%			
Test Mode):	Mode2/ M	Mode4	Test	By:		Mary	/ Hu		
All the mo	dulation m	odes have	e been test	ed, and th	e worst res	ult wa	s rep	ort as belo	ow:	
Frequenc		Cable	Antenna	Preamp	Emission	Lim	ite	Margin	Detector	
у	Reading	Loss	Factor	Factor	Level					Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)		V/m)	(dB)	Туре	
					PSK)-hoppir	-				
2310.00	61.72	2.97	27.80	43.80	48.69	74		-25.31	Pk	Horizontal
2310.00	43.48	2.97	27.80	43.80	30.45	54		-23.55	AV	Horizontal
2310.00	63.46	2.97	27.80	43.80	50.43	74		-23.57	Pk	Vertical
2310.00	42.41	2.97	27.80	43.80	29.38	54		-24.62	AV	Vertical
2390.00	60.77	3.14	27.21	43.80	47.32	74		-26.68	Pk	Vertical
2390.00	43.84	3.14	27.21	43.80	30.39	54	4	-23.61	AV	Vertical
2390.00	61.16	3.14	27.21	43.80	47.71	74		-26.29	Pk	Horizontal
2390.00	44.55	3.14	27.21	43.80	31.10	54		-22.90	AV	Horizontal
2483.50	63.52	3.58	27.70	44.00	50.80	74		-23.20	Pk	Vertical
2483.50	44.17	3.58	27.70	44.00	31.45	54		-22.55	AV	Vertical
2483.50	60.76	3.58	27.70	44.00	48.04	74	4	-25.96	Pk	Horizontal
2483.50	43.32	3.58	27.70	44.00	30.60	54	4	-23.40	AV	Horizontal
			3Mb	ps (8-DPSI	<)- Non-hop	oping				
2310.00	61.60	2.97	27.80	43.80	48.57	74	4	-25.43	Pk	Horizontal
2310.00	43.46	2.97	27.80	43.80	30.43	54	4	-23.57	AV	Horizontal
2310.00	64.56	2.97	27.80	43.80	51.53	74	4	-22.47	Pk	Vertical
2310.00	43.43	2.97	27.80	43.80	30.40	54	4	-23.60	AV	Vertical
2390.00	60.77	3.14	27.21	43.80	47.32	74	4	-26.68	Pk	Vertical
2390.00	42.31	3.14	27.21	43.80	28.86	54	4	-25.14	AV	Vertical
2390.00	60.87	3.14	27.21	43.80	47.42	74	4	-26.58	Pk	Horizontal
2390.00	43.46	3.14	27.21	43.80	30.01	54	4	-23.99	AV	Horizontal
2483.50	62.81	3.58	27.70	44.00	50.09	74	4	-23.91	Pk	Vertical
2483.50	41.41	3.58	27.70	44.00	28.69	54	4	-25.31	AV	Vertical
2483.50	61.72	3.58	27.70	44.00	49.00	74	4	-25.00	Pk	Horizontal
2483.50	43.47	3.58	27.70	44.00	30.75	54	4	-23.25	AV	Horizontal

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



■ S	purious Emi	ission in	Restricte	d Band 3	260MHz-1	8000MHz				
EUT:		Mo	oile Phon	е	Model N	lo.:	V	4		
Temp	erature:	20	°C		Relative Humidity:		48	48%		
Test N	Node:	Mo	de2/ Mod	e4	Test By	:	M	ary Hu		
All th	e modulatio	n modes	have be	en tested	, and the v	worst result	t was r	eport as b	elow:	
	Frequenc		Cable	Antenn	Preamp	Emission	Limit	s Margin	Detect	
	У	g Level	Loss	а	Factor	Level		Ŭ	or	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµ V/m)	(dBµ V/m)		Туре	Commone
	3260	61.99	4.04	29.57	44.70	50.90	74	-23.10	Pk	Vertical
	3260	50.62	4.04	29.57	44.70	39.53	54	-14.47	AV	Vertical
	3260	63.08	4.04	29.57	44.70	51.99	74	-22.01	Pk	Horizontal
	3260	54.04	4.04	29.57	44.70	42.95	54	-11.05	AV	Horizontal
	3332	62.93	4.26	29.87	44.40	52.66	74	-21.34	Pk	Vertical
	3332	52.57	4.26	29.87	44.40	42.30	54	-11.70	AV	Vertical
	3332	63.08	4.26	29.87	44.40	52.81	74	-21.19	Pk	Horizontal
	3332	50.71	4.26	29.87	44.40	40.44	54	-13.56	AV	Horizontal
	17797	43.99	10.99	43.95	43.50	55.43	74	-18.57	Pk	Vertical
	17797	31.68	10.99	43.95	43.50	43.12	54	-10.88	AV	Vertical
	17788	43.86	11.81	43.69	44.60	54.76	74	-19.24	Pk	Horizontal
	17788	30.31	11.81	43.69	44.60	41.21	54	-12.79	AV	Horizontal

ACCREDITED

Certificate #4298.01

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



7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

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

7.3.2 Conformance Limit

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

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	V4
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mary Hu



7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

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

7.4.2 Conformance Limit

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

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Measurement Bandwidth or Channel Separation RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary to best identify the center of each individual channel. VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	V4
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

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

7.5.2 Conformance Limit

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

7.5.3 Measuring Instruments

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

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

7.5.6 Test Results

EUT:	Mobile Phone	Model No.:	V4
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu





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:	Mobile Phone	Model No.:	V4
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

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

7.7.2 Conformance Limit

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

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW \geq the 20 dB bandwidth of the emission being measured VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	V4
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu





7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

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

7.8.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(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:	Mobile Phone	Model No.:	V4
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mary Hu



7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

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

7.9.2 Conformance Limit

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

7.9.3 Measuring Instruments

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

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

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

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

h) Use the peak marker function to determine the maximum amplitude level. Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 9KHz 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.

The worst mode is GFSK mode, and the report only show the worst mode 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 partyshall be used with the device.

7.10.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: 0.5dBi). It comply with the standard requirement.



8 TEST RESULTS

8.1 DWELL TIME

Condition	Mode	Frequency	Pulse Time	Total Dwe		d Time	Limit	Verd				
		(MHz)	(ms)	Time (ms	<i>,</i> ,	ns)	(ms) 400					
NVNT	1-DH1	2441	0.384	122.88	31	31600		Pas				
NVNT	1-DH3	2441	1.64	262.40	31	600	400	Pas				
NVNT	1-DH5	2441	2.888	308.06	31	600	400	Pas				
NVNT	2-DH1	2441	0.376	120.32	31	31600	400	Pas				
NVNT	2-DH3	2441	1.616	258.56	31	600	400	Pas				
NVNT	2-DH5	2441	2.864	305.50	31	600	400	Pas				
NVNT	3-DH1	2441	0.368	117.76	31	600	400	Pas				
NVNT	3-DH3	2441	1.624	259.84		600	400	Pas				
NVNT	3-DH5	2441	2.88	307.21	31	600	400	Pas				
	Spectrui Ref Level Att SGL TRG: 1Pk Clrw	I 27.78 dBm Offset 40 dB ● SWT	7.78 dB 👄 RBW 1 Mi 8 ms 👄 VBW 1 Mi									
	THK CILM			M1[1]			-7.16 dBm					
	20 dBm						-352.00 µs 0.79 dB					
						384.00 µs						
	10 dBm											
	0 dBm											
	M1	D1										
	-10 dBm	TRG -10.020 dBm										
	-20 dBm-											
	-30 dBm-											
	HULLENG	yn-ynheidyberpabiliafe	nuthelawaapapanahahahahahahahah	hipezetzet teatratelitetete	haller linger freedom with	harman half hay bey	44hLeptorephbets					
	-50 dBm—											
	-60 dBm—	<u> </u>										
	-70 dBm—	<u> </u>										
		 CH7	10	101 pts			800.0 µs/					
	CF 2.441				Ready (

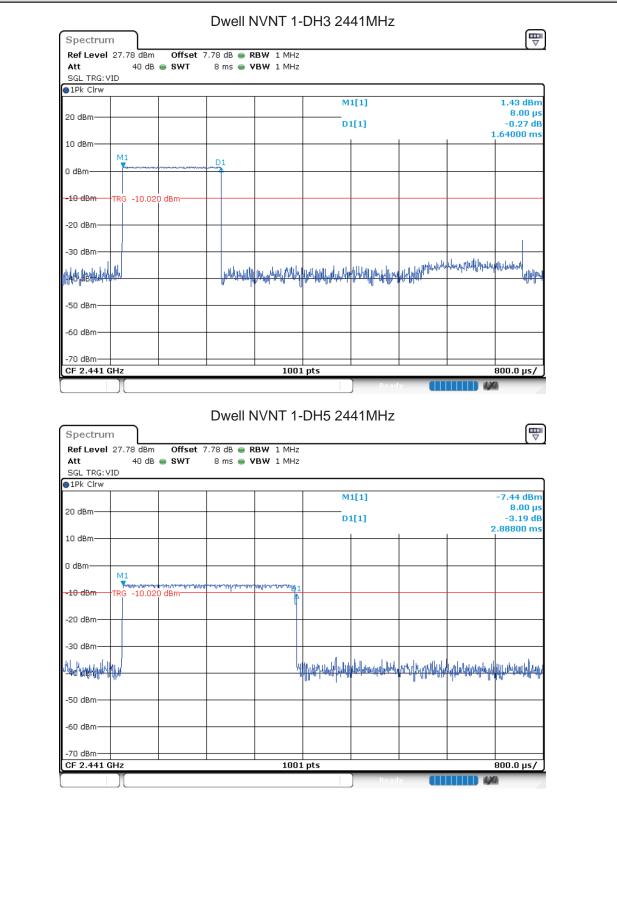


Iac-MR

ACCREDITED

Certificate #4298.01

Report No.: S19062502702001

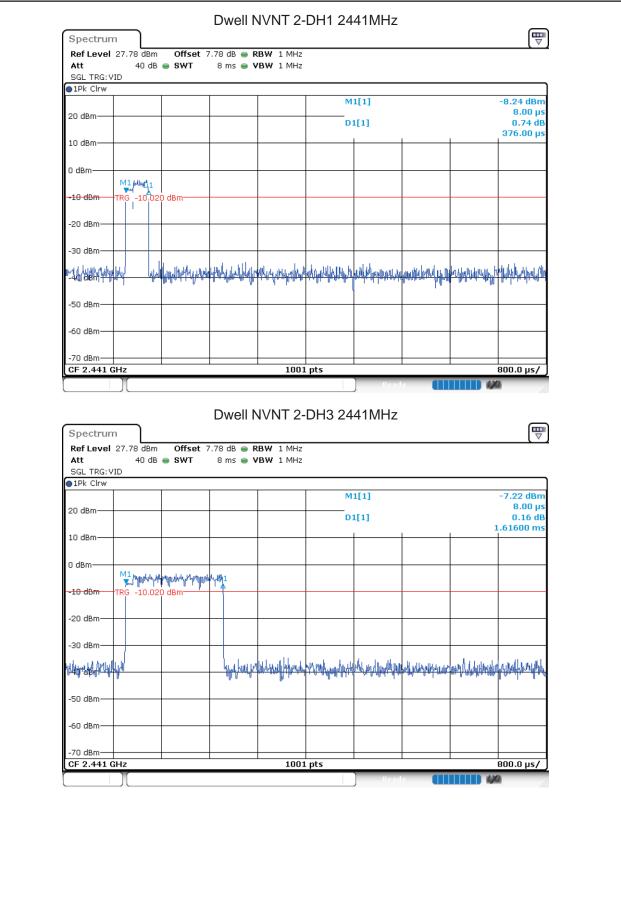




Iac-MR

ACCREDITED

Certificate #4298.01

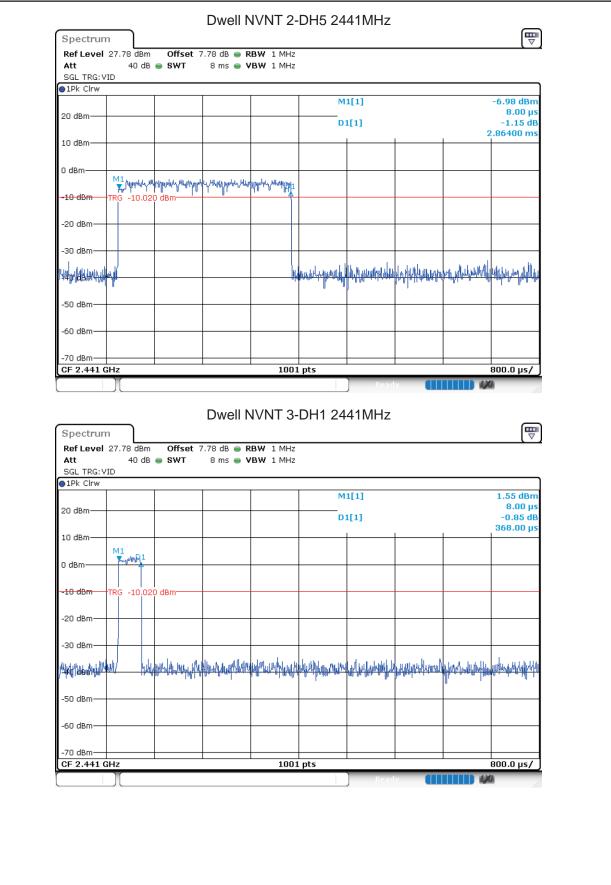




Iac-MR

ACCREDITED

Certificate #4298.01

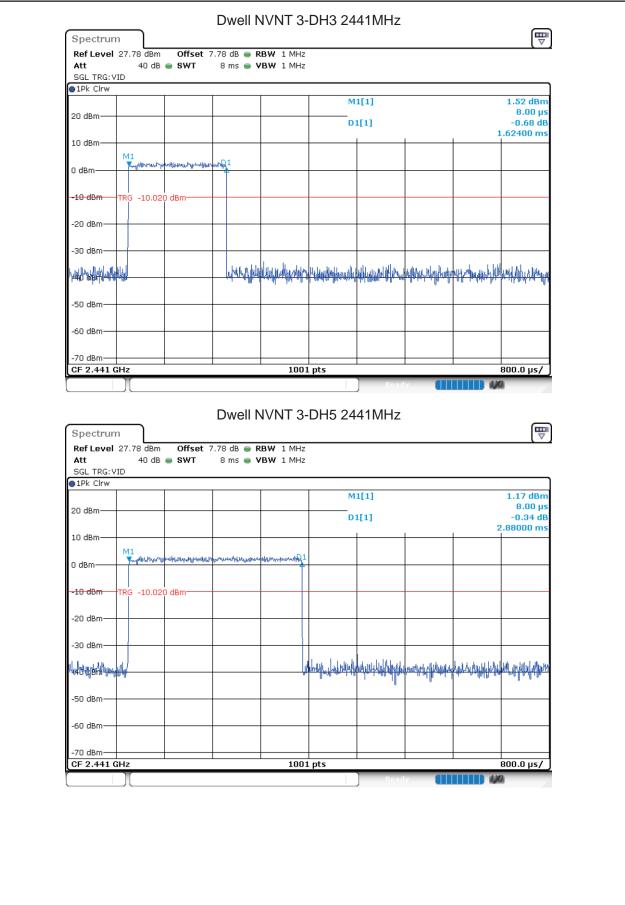




Iac-MR

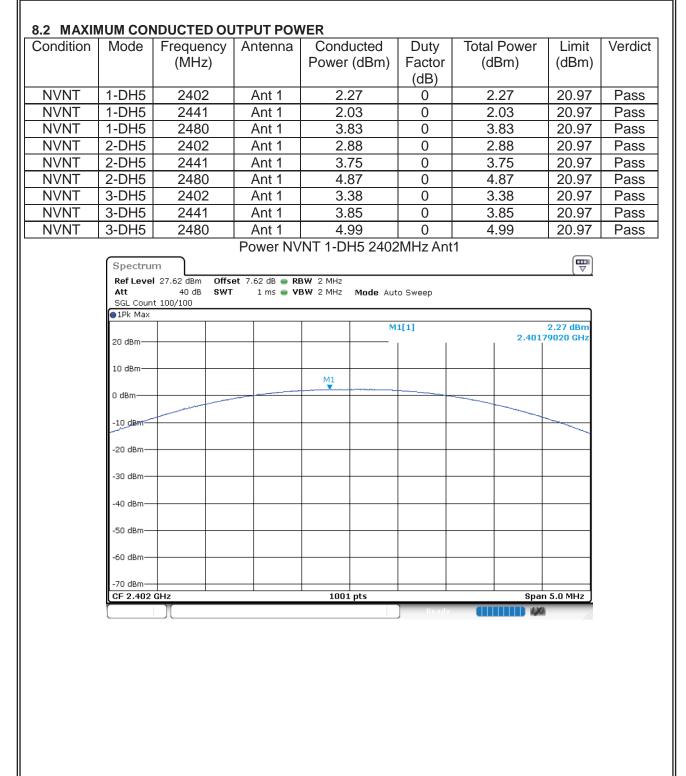
ACCREDITED

Certificate #4298.01









ACCREDITED





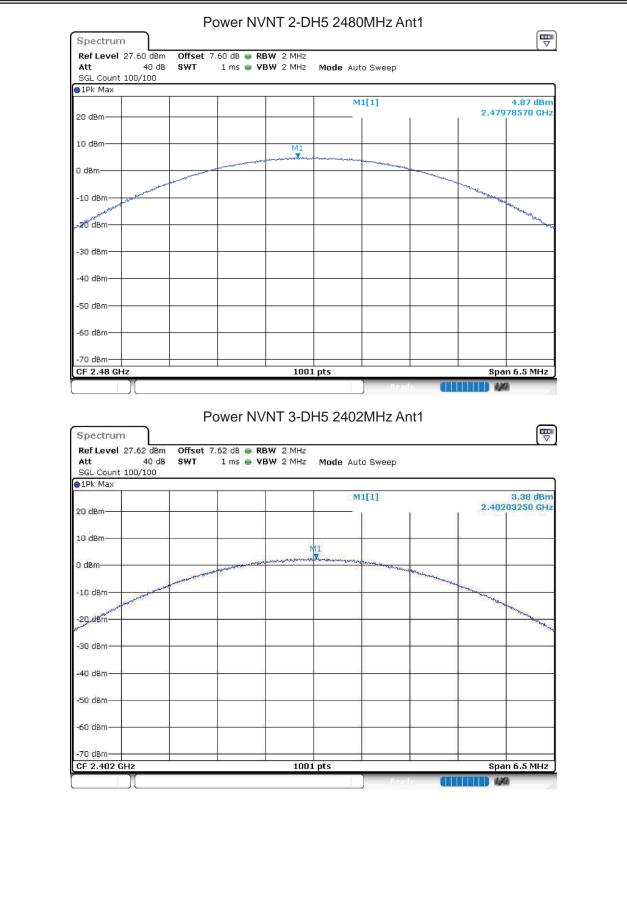
ACCREDITED





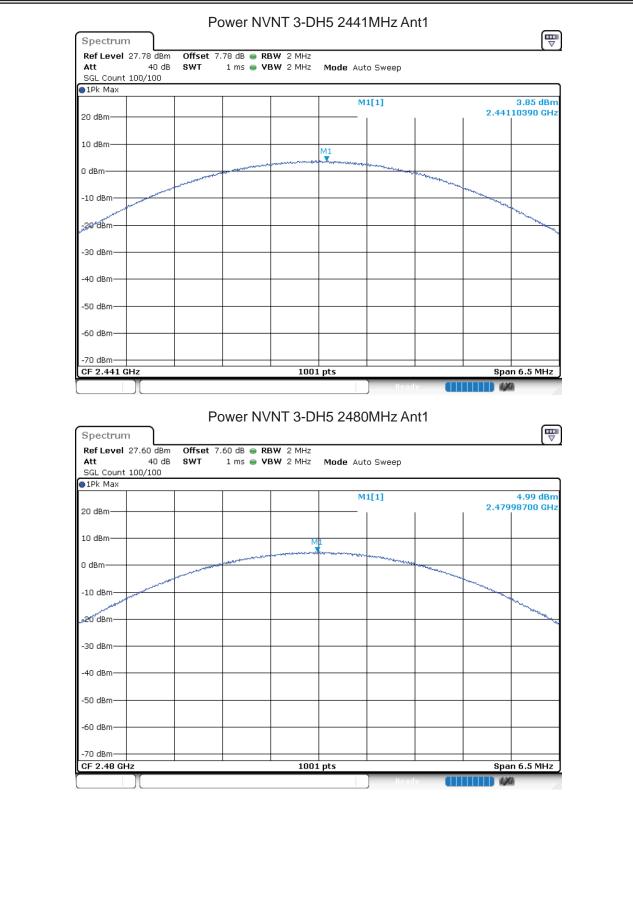
ACCREDITED





ACCREDITED





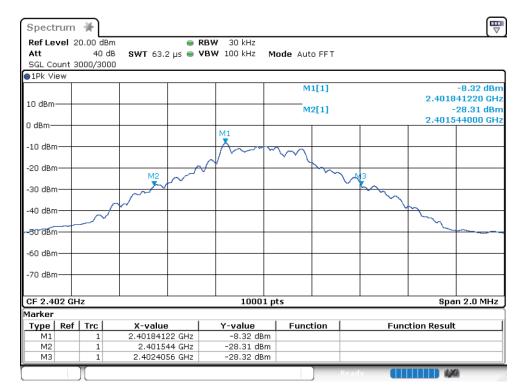
ACCREDITED



8.3 OCCUPIED CHANNEL BANDWIDTH Limit -20 dB Condition Mode Frequency -20 dB Verdict Antenna Bandwidth (MHz) Bandwidth (MHz) (MHz) **NVNT** 1-DH5 2402 N/A Pass Ant 1 0.8616 NVNT 1-DH5 2441 Ant 1 0.8598 N/A Pass NVNT 1-DH5 2480 Ant 1 0.8608 N/A Pass NVNT 2-DH5 2402 Ant 1 1.2882 N/A Pass **NVNT** 2-DH5 2441 Ant 1 N/A Pass 1.2894 2480 Pass NVNT 2-DH5 Ant 1 1.2950 N/A NVNT 2402 Pass 3-DH5 Ant 1 1.2954 N/A **NVNT** 2441 3-DH5 Ant 1 1.2968 N/A Pass NVNT 3-DH5 2480 N/A Pass Ant 1 1.2942

OBW NVNT 1-DH5 2402MHz Ant1

ACCREDITED







ACCREDITED





ACCREDITED





ACCREDITED



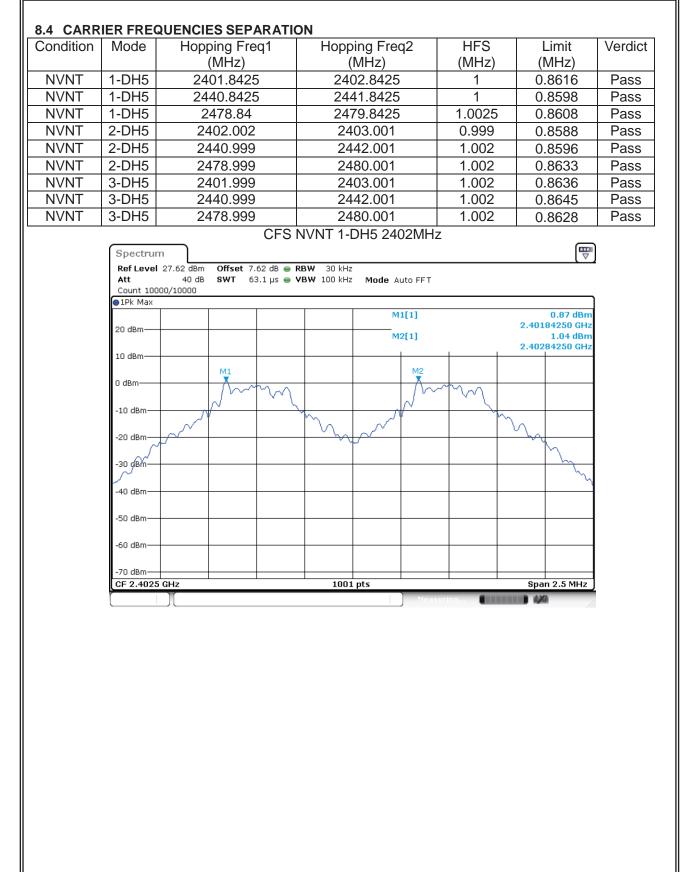




ACCREDITED







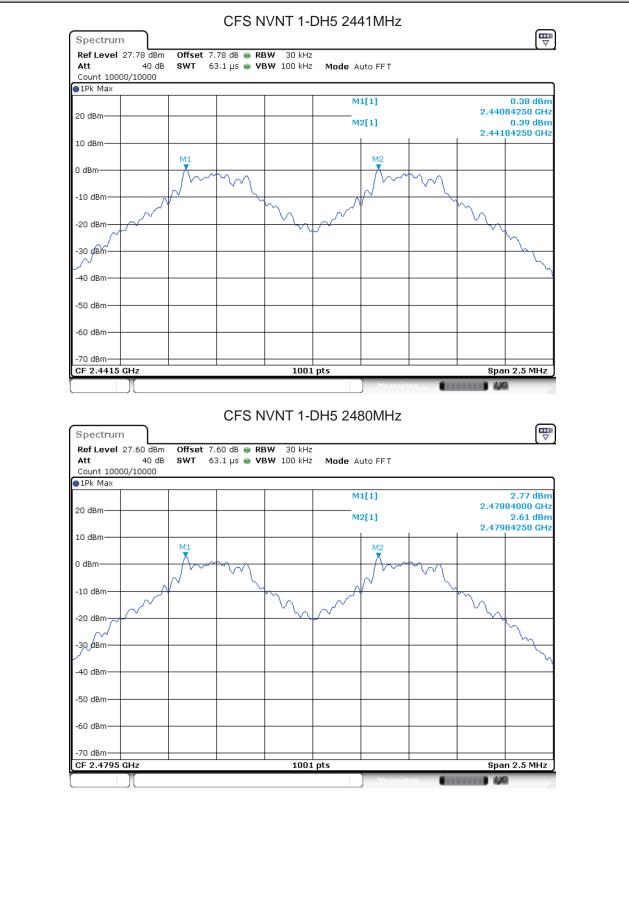
ACCREDITED



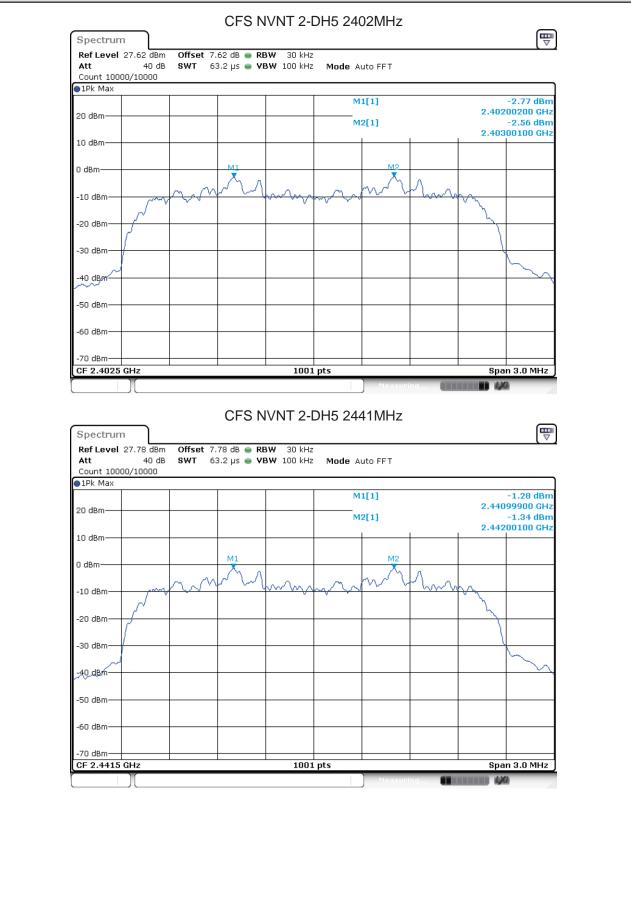
ilac-MR

ACCREDITED

Certificate #4298.01







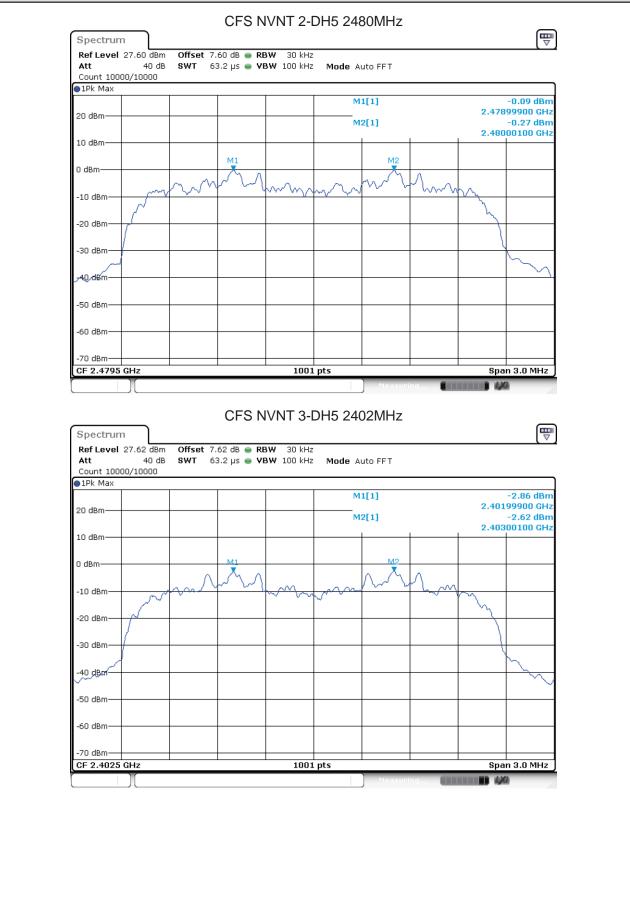
ACCREDITED



ilac-MR

ACCREDITED

Certificate #4298.01

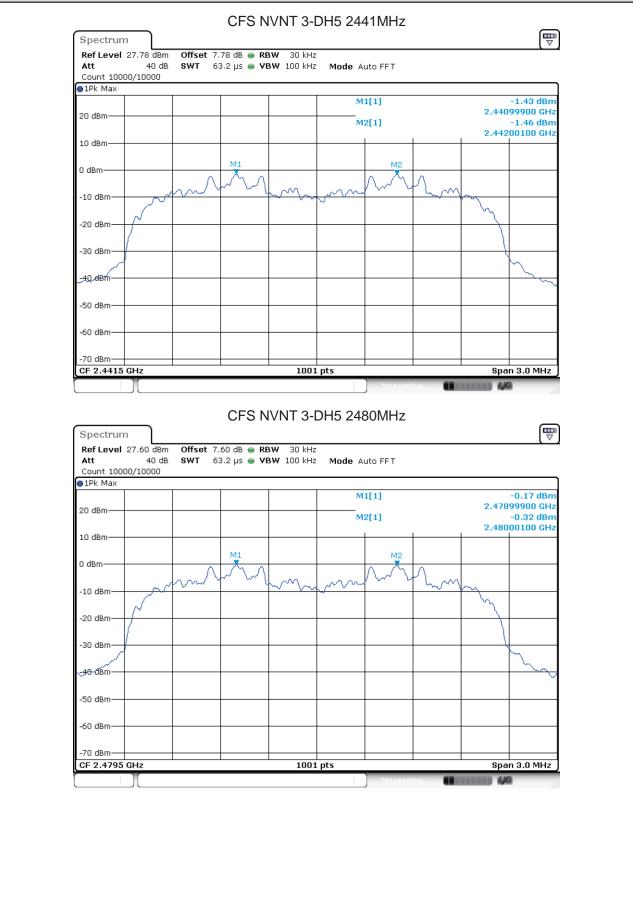




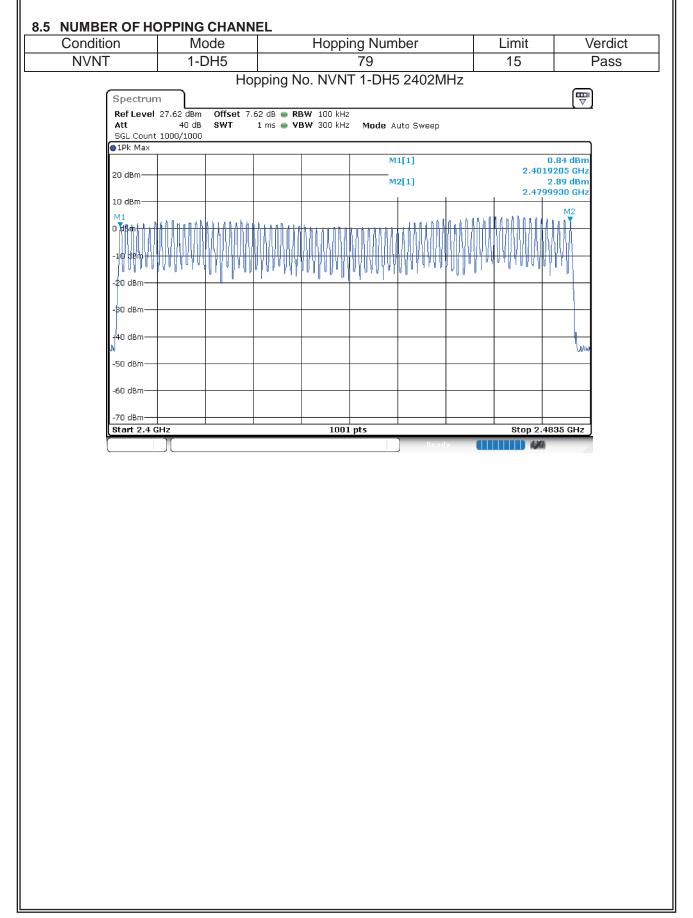
ilac-MR

ACCREDITED

Certificate #4298.01





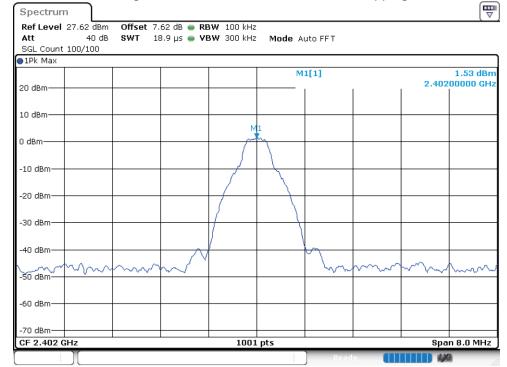




8.6 BAND EDGE

0.0 DAND	LDOL						
Condition	Mode	Frequency	Antenna	Hopping	Max Value (dBc)	Limit	Verdict
		(MHz)		Mode		(dBc)	
NVNT	1-DH5	2402	Ant 1	No-Hopping	-44.06381788731	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-43.21919659615	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-45.48719887733	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-45.76586398125	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-39.63257500648	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-40.95592739344	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-43.58652513623	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-44.65681490898	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-40.05629163742	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-38.8802783823	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-45.63420390129	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-45.61013791084	-20	Pass
		Pond Edge		15 2402N/LI- A	nt1 No Hopping Pof		

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





●1Pk Max	t 100/100]
20 dBm					м	1[1]		2.40	1.19 dBm 205000 GHz
10 dBm					M	2[1]			-45.02 dBm
							1	2.40	000000 GHz
0 dBm									
-10 dBm—									
-20 dBm—	D1 -18.466	dBm							
-30 dBm—									
-40 dBm—				M4				1713	m 2
ሌላ/ኒ.ምሩሳኒሥ -50 dBm—	war hand the way a	glaman harris	- we would	reported	mbrunnunhanna	wwwwwww	nowhand	www.	union was
-60 dBm—									
-70 dBm— Start 2.30)6 GHz	l	I	1001	pts	l		Stop	2.406 GHz
Marker	6 T = 1		- 1		1 5	N [- ti	
Type Re M1	ef Trc 1	X-value 2.402	05 GHz	<u>Y-value</u> 1.19 dBi	Func	uon	Fun	ction Resul	L
			2.4 GHz	-45.02 dB	m				
M2	1	-		-45.53 dBi					
	1		39 GHz 82 GHz	-42.53 dB					
M2 M3 M4 Spectrur Ref Level Att	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I		m 0H5 240		av 🚺	oping Re	ef
M2 M3 M4 Spectrur Ref Level Att	Band Ec	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240		dv 🚺	oping Re	
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240 Mode A		Ant1 Hop		₩ 1.93 dBm
M2 M3 M4 Spectrur Ref Level Att SGL Coun	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240 Mode A	uto FFT	dy 🚺 Ant1 Hop		
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240 Mode A	uto FFT	dy 🚺		₩ 1.93 dBm
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max 20 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240 Mode A	uto FFT	Ant1 Hop		₩ 1.93 dBm
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max 20 dBm-	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240 Mode A	uto FFT	Ant1 Hop	2.40	₩ 1.93 dBm
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max 20 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240 Mode A	uto FFT		2.40	₩ 1.93 dBm
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max 20 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	m 0H5 240 Mode A	uto FFT		2.40	₩ 1.93 dBm
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max 20 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40 M1	1.93 dBm 195700 GHz
M2 M3 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max 20 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40 M1	1.93 dBm 195700 GHz
M2 M3 M4 Spectrur Ref Level Att SGL Coun •1Pk Max 20 dBm- -10 dBm- -10 dBm- -20 dBm- -30 dBm-	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40 M1	1.93 dBm 195700 GHz
M2 M3 M4 M4 Spectrur Ref Level Att SGL Coun • 1Pk Max 20 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40 M1	1.93 dBm 195700 GHz
M2 M3 M4 Spectrur Ref Level Att SGL Coun •1Pk Max 20 dBm- -10 dBm- -10 dBm- -20 dBm- -30 dBm-	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40 M1	1.93 dBm 195700 GHz
M2 M3 M4 Spectrur Ref Level Att SGL Coun •10 dBm •10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40 M1	1.93 dBm 195700 GHz
M2 M3 M4 Spectrur Ref Level Att SGL Coun •1Pk Max 20 dBm •10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 1 Band Ec 1 27.62 dBm 40 dB	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40 M1	1.93 dBm 195700 GHz
M2 M3 M4 Spectrur Ref Level Att SGL Coun •10 dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm	1 1 1 27.62 dBm 40 dB t 1000/1000	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I		Mode A	uto FFT		2.40	1.93 dBm H95700 GHz
M2 M3 M4 Spectrur Ref Level Att SGL Coun •10 dBm •10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm	1 1 1 27.62 dBm 40 dB t 1000/1000	2.34 dge(Hop offset 7	82 GHz ■ ping) N .62 dB ● I	-42.53 dB	Mode A	uto FFT		2.40	1.93 dBm #95700 GHz



20 dBm					M	1[1]		2.4	1.83 dBm 0495000 GHz
10 dBm					M	2[1]			-45.52 dBm
						1	1	2.4	
0 dBm									1844
-10 dBm	1 10 071	dD							111
-20 dBm	1 -18.071	авт <u></u>							
-30 dBm							-		
-40 dBm	manter	Moholithe anti-	M4	te a sets sub a	www.	Herkuman	mount	-re-handra -re-handra	when and when
-50 dBm						- 0		10.000	
-60 dBm									
-70 dBm									
Start 2.306 Marker	GHz			1001	pts			Sto	op 2.406 GHz
Type Ref		X-valu		Y-value	Func	tion	Fu	nction Res	ult
	1	2.404	495 GHz	1.83 dBr					
M1 M2			2 4 CH2						
M1 M2 M3	1		2.4 GHz .39 GHz	-45.52 dBr -46.04 dBr					
M2 M3 M4 Spectrum Ref Level 2 Att	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F		m		odv o-Hopp	ing Ref	
M2 M3 M4 Spectrum Ref Level 2	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248	n m BOMHz /		o-Hopp	ing Ref	
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248	Mode A		o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248	Mode A	uto FFT	o-Hopp		
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 10 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248	Mode A	uto FFT	o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 •1Pk Max 20 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	ady o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 10 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 10 dBm -10 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	ady o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 20 dBm 10 dBm 0 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 10 dBm -10 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm -10 dBm -10 dBm -20 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 PR Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm •7984020 GHz
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 PR Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT	o-Hopp		3.44 dBm •7984020 GHz
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 PR Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm	1 1 1 Band 7.60 dBm 40 dB	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT			3.44 dBm •7984020 GHz
M2 M3 M4 Spectrum Ref Level 2 Att SGL Count 1 Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 1 1 1 77.60 dBm 40 dB 00/100	2 2.34 Edge N	.39 GHz 437 GHz NVNT 1 7.60 dB • F	-46.04 dBr -41.29 dBr -DH5 248 RBW 100 kHz yBW 300 kHz	Mode A	uto FFT		2.4	3.44 dBm •7984020 GHz



SGL Count 10 1Pk Max	0/100		1						
20 dBm					MI	[1]		2.480	3.41 dBm)15000 GHz
10 dBm					M2	2[1]			-43.86 dBm 350000 GHz
-10 dBm									
-20 cBm-D1	-16.563	dBm							
-30 qBm									
-40 dBm ¹²	M4	M3							
-50 dBm	mangala	hours hours	March Mindelighter	mydwleywalaw	wahlmar	happlachau	multilunde	and the second	tota want with the
-60 dBm									
-70 dBm									
Start 2.476 G	Hz			1001	l pts			Stop	2.576 GHz
Marker Type Ref		X-value		Y-value	Funct	ion	Fund	ction Resul	t l
	1		15 GHz 35 GHz	3.41 dB -43.86 dB	3m				
M1 M2	1			-45.83 dB	3m				
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10	1 1 nd Ed .60 dBm 40 dB	2.49 ge(Hop Offset 7	.60 dB 👄 RI	-42.06 de VNT 1-D BW 100 kHz)H5 2480		nt1 Hop	oping Re	a ef
M2 M3 M4 Ba Spectrum Ref Level 27 Att	1 1 nd Ed .60 dBm 40 dB	2.49 ge(Hop Offset 7	ч45 GHz pping) N ^v .60 dв е Ri	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au		nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10	1 1 nd Ed .60 dBm 40 dB	2.49 ge(Hop Offset 7	ч45 GHz pping) N ^v .60 dв е Ri	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 • 1Pk Max	1 1 nd Ed .60 dBm 40 dB	2.49 ge(Hop Offset 7	ч5 GHz ping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	.nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 •1Pk Max 20 dBm 10 dBm	1 1 nd Ed .60 dBm 40 dB	2.49 ge(Hop Offset 7	ч45 GHz pping) N ^v .60 dв е Ri	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 1Pk Max 20 dBm 10 dBm	1 1 nd Ed .60 dBm 40 dB	2.49 ge(Hop Offset 7	ч45 GHz ping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	.nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 •1Pk Max 20 dBm 10 dBm	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop Offset 7	ч45 GHz ping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 1Pk Max 20 dBm 10 dBm	1 1 nd Ed .60 dBm 40 dB	2.49 ge(Hop Offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 • 1Pk Max 20 dBm 10 dBm -10 dBm	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 • 1Pk Max 20 dBm -10 dBm -20 dBm -30 dBm	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 • 1Pk Max 20 dBm • 10 dBm • 10 dBm • 20 dBm	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	.nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 • 1Pk Max 20 dBm -10 dBm -20 dBm -30 dBm	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 • 1Pk Max 20 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	.nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M3 M4 M4 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 1Pk Max 20 dBm 10 dBm 10 dBm - -20 dBm - -30 dBm - -40 dBm - -60 dBm -	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop Offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 248(: : Mode Au	ito FFT	nt1 Hop		₩ ▼ 3.18 dBm
M2 M3 M3 M4 Ba Spectrum Ref Level 27 Att SGL Count 10 1Pk Max 20 dBm 10 dBm 10 dBm - -20 dBm - -30 dBm - -40 dBm -	1 1 .60 dBm 40 dB 00/1000	2.49 ge(Hop Offset 7	ч5 GHz pping) № .60 dB ● Rt 8.9 µs ● VI	-42.06 de VNT 1-D BW 100 kHz	DH5 2480	ito FFT	.nt1 Hop	2.479	3.18 dBm 200100 GHz



20 dBm			M	1[1]		2.477	3.63 dBm 85000 GHz
₩Q dBm			м	2[1]			44.87 dBm 50000 GHz
-20 dBm	324 dBm						
-30 dBm							
-40 dBritt2114	www.www.www.	man the man when	monorthand have go	warman	Hubbletup	down palacent	Mulanoom
-50 dBm							
-60 dBm							
-70 dBm Start 2.476 GHz		100	1 pts			Ston	2.576 GHz
Marker	·						
Type Ref Trc M1 1	X-value 2.47785 (tion	Fund	ction Result	
M2 1 M3 1	2.4835 (
M3 1 M4 1 Spectrum Bail Ref Level 27.62 d Att 40 SGL Count 100/100	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHz -44.86 d	IBM IBM IO2MHz /		-Hoppin	ng Ref	
M3 1 M4 1 Bal Spectrum Ref Level 27.62 d Att 40	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin	ng Ref	
M3 1 M4 1 Spectrum Bail Ref Level 27.62 d Att 40 SGL Count 100/100	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A		-Hoppin		-2.09 dBm 04000 GHz
M3 1 M4 1 Bai Spectrum Ref Level 27.62 d Att 40 SGL Count 100/100 1Pk Max 20 dBm	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 Spectrum Ref Level 27.62 d Att 40 SGL Count 100/100 1Pk Max	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 Bai Spectrum Ref Level 27.62 d Att 40 SGL Count 100/100 1Pk Max 20 dBm	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 Bai 1 Spectrum 27.62 d Att 40 SGL Count 100/100 1Pk Max 20 dBm 10 dBm	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 M4 1 Spectrum	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 Spectrum Bail Ref Level 27.62 d Att 40 SGL Count 10 dBm 10 dBm 0 dBm 0	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 M4 1 Spectrum	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 M4 1 Spectrum	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 M4 1 Spectrum Ref Level 27.62 d Att 40 SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT	-Hoppin		-2.09 dBm
M3 1 M4 1 M4 1 Spectrum Bal Ref Level 27.62 d Att 40 SGL Count 10 dBm 100 dBm -10 dBm -20 dBm -30 dBm -30 dBm	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT			-2.09 dBm
M3 1 M4 1 M4 1 Spectrum Ref Level 27.62 d Att 40 SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT			-2.09 dBm
M3 1 M4 1 M4 1 Ref Level 27.62 d Att 40 SGL Count 10 dBm 0 10 dBm 0 -10 dBm -0 -20 dBm -0 -30 dBm -0 -60 dBm -0	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	GHZ -44.86 c GHZ -42.60 c NT 2-DH5 24 dB ● RBW 100 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT			-2.09 dBm
M3 1 M4 1 M4 1 Ref Level 27.62 d Att 40 SGL Count 100/100 1Pk Max 20 dBm 20 dBm 10 dBm 10 dBm -0 dBm -10 dBm	2.5 (2.4862 (nd Edge NVI Bm Offset 7.62 dB SwT 18.9	3Hz -44.86 с 3Hz -42.60 с NT 2-DH5 24 dB ● RBW 100 kH µs ● VBW 300 kH	IBM IBM IO2MHz / IZ IZ Mode A	uto FFT		2.402	-2.09 dBm



●1Pk Ma		100/10	,						-				
20 dBm-								M1[1	1		2.40	-1.28 dB 195000 GF	
10 dBm-								M2[1	l]			-45.52 dB 000000 GF	m
								1			2.40	M1	12
0 dBm—												Ā	
-10 dBm													
-20 dBm	יו	01 -22	087 d	dBm		-							=
-30 dBm	ו—ו		_										-
-40 dBm	η						M4				M3	1712	-
പ്പ്പ്പംപം -50 dBm	- M	howmany	Juga	have the follow	your part	magney	William Burnharne	unnumulnu	minhieler	the work the second	utra Tohn	MANNE L	Nort
-60 dBm	1												
-70 dBm Start 2		GHz					1001 p	ts			Stop	2.406 GH	z
Marker Type	Rof	Tro		X-val		v.	value	Functio	n	Euro	ction Resu	+	
M1	Ker	1)195 GHz		-1.28 dBm			T un	cton kesu	R.	
		1				-	45.52 dBm						
M2 M3		1			2.4 GHz 2.39 GHz	-	46.43 dBm						
M3 M4 Spect Ref Le	rum vel :	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021		nt1 Ho	oping R	_	
M3 M4 Spect	rum vel : ount	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021		nt1 Hop	oping R	_	
M3 M4 Specti Ref Let Att SGL Co 1Pk Ma	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021	FFT	nt1 Hop		-0.50 dB	
M3 M4 Specti Ref Let Att SGL Co 1Pk Ma	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT	Iv III Int1 Hop		Ę	
M3 M4 Spectr Ref Le Att SGL Co 1Pk Ma 20 dBm-	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT	nt1 Hop		-0.50 dB	
M3 M4 Spectr Ref Le Att SGL Co 1Pk Ma 20 dBm- 10 dBm-	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT	Iv III		-0.50 dB	
M3 M4 Spectr Ref Le Att SGL Co 1Pk Ma 20 dBm- 10 dBm-	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spectu Ref Let Att SGL Co 1Pk Ma 20 dBm- 10 dBm-	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spectr Ref Le Att SGL Co 1Pk Ma 20 dBm- 10 dBm- -10 dBm	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spectu Ref Let Att SGL Co 1Pk Ma 20 dBm- 10 dBm-	rum vel : ount ax	and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spectr Ref Le Att SGL Co 1Pk Ma 20 dBm- 10 dBm- -10 dBm		and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spectr Ref Le Att SGL Co 1Pk Ma 20 dBm- 10 dBm- -10 dBm- -20 dBm -30 dBm		and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spect Ref Le Att SGL Co 1Pk Ma 20 dBm 10 dBm -10 dBm -20 dBm		and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spectr Ref Le Att SGL Co 1Pk Ma 20 dBm- 10 dBm- -10 dBm- -20 dBm -30 dBm		and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spect Ref Lev Att SGL Co 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm		and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spect Ref Lev Att SGL Co 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm		and 27.62 c 40	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	15 24021 Mode Auto	FFT			-0.50 dB	
M3 M4 Spect Ref Lev Att SGL Co 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm		and 27.62 cc 400 1000/11	Bm dB	ge(Ho offset	2.39 GHz 2.35 GHz pping) 7.62 dB	NVN rbw	41.72 dBm	H5 2402N	FFT		2.40	-0.50 dB	



SGL Count 100 1Pk Max	40 dB 10/1000	SWT 22		' BW 300 kHz		Auto FFT			
_					M	1[1]			-1.32 dBm
20 dBm					M	2[1]			295000 GHz -43.85 dBm
10 dBm							1		000000 GHz
0 dBm									M1
-10 dBm									phiny
20 d8mD1	-20.504	dBm-							
-30 dBm									
-40 dBm			M4	No. or all an				MB	M2
-50 dBm	manylowburk	www.theybauthle	mhulman	when when when when when when when when	and the second sec	helio dhe mayora	to phone for the	manul	wyww.
-60 dBm									
-70 dBm Start 2.306 GH	lz			1001 p	ots			Stop	2.406 GHz
Marker Type Ref 1	Tere I	X-value	1	Y-value	Funct	tion	Euro	tion Result	
M1	1	2.4029	95 GHz	-1.32 dBm	1		- T und	cion Result	
M2	1		.4 GHz	-43.85 dBm -45.89 dBm					
	1	2.3							
M3 M4 Spectrum Ref Level 27. Att	60 dBm 40 dB	2.343 Edge N Offset 7.0	60 dB 😑 RE	-41.47 dBm DH5 248 3W 100 kHz 3W 300 kHz	1		dy 🚺	g Ref	
M3 M4 Spectrum Ref Level 27.	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB - RE	-41.47 dBm DH5 248 3W 100 kHz	oMHz A		dv	g Ref	((()
M3 M4 Spectrum Ref Level 27. Att SGL Count 100 • 1Pk Max	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB - RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A		b-Hoppin		-0.31 dBm
M3 M4 Spectrum Ref Level 27. Att SGL Count 100	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB - RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	o-Hoppin		
M3 M4 Spectrum Ref Level 27. Att SGL Count 100 • 1Pk Max	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 Spectrum Ref Level 27. Att SGL Count 100 • 1Pk Max 20 dBm 10 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 Spectrum Ref Level 27. Att SGL Count 100 • 1Pk Max 20 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 Spectrum Ref Level 27. Att SGL Count 100 • 1Pk Max 20 dBm 10 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 Spectrum Ref Level 27. Att SGL Count 100 • 1Pk Max 20 dBm 10 dBm 0 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27. Att SGL Count 100 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27. Att SGL Count 100 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27. Att SGL Count 100 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin		-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27. Att SGL Count 100 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm - -20 dBm - -30 dBm - -40 dBm -	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	D-Hoppin		-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27. Att SGL Count 100 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	p-Hoppin	2.480	-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27. Att SGL Count 100 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm - -20 dBm - -30 dBm - -40 dBm -	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	p-Hoppin	2.480	-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27., Att SGL Count 100 1Pk Max 20 dBm 10 dBm 10 dBm 0 dBm -10 dBm - -20 dBm - -30 dBm - -40 dBm - -60 dBm -	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	b-Hoppin	2.480	-0.31 dBm
M3 M4 Spectrum Ref Level 27. Att SGL Count 1000 • 1Pk Max 20 dBm 10 dBm 0 -10 dBm - -20 dBm - -30 dBm - -40 dBm - -50 dBm - -70 dBm -	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm		uto FFT	b-Hoppin	2.480	-0.31 dBm 03200 GHz
M3 M4 Spectrum Ref Level 27., Att SGL Count 100 1Pk Max 20 dBm 10 dBm 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz	OMHZ A	uto FFT	p-Hoppin	2.480	-0.31 dBm
M3 M4 M4 M4 Spectrum Ref Level 27., Att SGL Count 100 1Pk Max 20 dBm 10 dBm 10 dBm 0 dBm -10 dBm - -20 dBm - -30 dBm - -40 dBm - -60 dBm -	1 Band	2.343 Edge N Offset 7.0	32 GHZ VNT 2- 60 dB — RE	-41.47 dBm DH5 248 3W 100 kHz		uto FFT	b-Hoppin	2.480	-0.31 dBm 03200 GHz



				54	1[1]			0.92 dBm
20 dBm								05000 GHz
10 dBm		_		M:	2[1]			46.40 dBm 50000 GHz
		_						
-10 dBm		_						
-20 d8m	0.313 dBm							
-30 dBm		_				_		
-40 dBm	Ma	IANDA & A					. miled was	di 1
-50 dBm	Manyahar Matha	Production 1	mulitude	wallownorthyphy	modulutedy	-mallMannowski	MMM	manufanananan
-60 dBm			+ +					
-70 dBm				nte				
Start 2.476 GHz Marker			1001	prs			Stop	2.576 GHz
Type Ref Tro		ue 8005 GHz	Y-value 0.92 dBn	Funct	tion	Fund	tion Result	
M2		1835 GHz	-46.40 dBn -44.90 dBn					
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000,	1 1 2.4 2 Edge(Ho 1 dBm Offset 40 dB SWT	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	n n		ady 🚺	ping Re	if 🕎
M2 M3 M4 Band Spectrum Ref Level 27.60 Att	1 1 2.4 2 Edge(Ho 1 dBm Offset 40 dB SWT	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	ady 🚺	ping Re	
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000,	1 1 2.4 2 Edge(Ho 1 dBm Offset 40 dB SWT	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At		Ant1 Hop		
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 1Pk Max	1 1 2.4 2 Edge(Ho 1 dBm Offset 40 dB SWT	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 1Pk Max 20 dBm 10 dBm	1 1 2.4 2 Edge(Ho 1 dBm Offset 40 dB SWT	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 1Pk Max 20 dBm 10 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 1Pk Max 20 dBm 10 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Bance Spectrum Ref Level 27.60 Att SGL Count 1000, 1Pk Max 20 dBm 10 dBm 0 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Band Spectrum Ref Level 27.60 Att SGL Count 1000, 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Bance Spectrum Ref Level 27.60 Att SGL Count 1000, 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Bance Spectrum Ref Level 27.60 Att SGL Count 1000, 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode At	uto FFT	Ant1 Hop		1.81 dBm
M2 M3 M4 Bance Spectrum Ref Level 27.60 Att SGL Count 1000, 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	1 1 2.4 2 Edge(Ho dBm Offset 40 dB SWT 1000	2.5 GHz 1892 GHz pping) N 7.60 dB • F	-44.90 dBn -43.90 dBn	Mode Au	uto FFT	Ant1 Hop	2.477	1.81 dBm



SGL Count 1000/1000 1Pk Max							
20 dBm			M	1[1]		2 47	-0.79 dBm 715000 GHz
10 dBm			M	2[1]			-45.06 dBm
41						2.483	350000 GHz
dBm							
	dBm						
-20 0811							
-30 dBm	мэ						
-40 dBm 214	mar of the man the man the	montermenter	whenwohly	whennynyn	mhyman	uldred and a should	handweather
-60 dBm							
Start 2.476 GHz		1001	pts			Stop	2.576 GHz
Aarker Type Ref Trc	X-value	Y-value	Funct	tion	Fund	tion Resul	t
M1 1 M2 1	2.47715 GHz 2.4835 GHz	-0.79 dBr -45.06 dBr					
M3 1	2.5 GHz	-44.10 dBr					
Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100	2.4855 GHz)2MHz / Mode Ad		-Hoppin	g Ref	
Band Spectrum Ref Level 27.62 dBm Att 40 dB	Edge NVNT	3-DH5 240	Mode A	uto FFT	-Hoppin	g Ref	
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100	Edge NVNT	3-DH5 240	Mode A		-Hoppin		-1.50 dBm 200800 GHz
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 IPk Max	Edge NVNT	3-DH5 240	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm	Edge NVNT	3-DH5 240	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm	Edge NVNT	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm	Edge NVNT	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm	Edge NVNT	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	Edge NVNT	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	Edge NVNT	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm	Offset 7.62 dB SWT 18.9 μs	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	Edge NVNT	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT	-Hoppin		-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Offset 7.62 dB SWT 18.9 μs	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 IPk Max 20 dBm 10 dBm 0 -10 dBm	Offset 7.62 dB SWT 18.9 μs	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 IPk Max 20 dBm 10 dBm -0 dBm -20 dBm -30 dBm -40 dBm	Offset 7.62 dB SWT 18.9 μs	3-DH5 240 RBW 100 kHz VBW 300 kHz	Mode Ar	uto FFT		2.405	-1.50 dBm
Band Spectrum Ref Level 27.62 dBm Att 40 dB SGL Count 100/100 PIPk Max 20 dBm 10 dBm 20 dBm 	Offset 7.62 dB SWT 18.9 μs	3-DH5 240	Mode Ar	uto FFT		2.405	-1.50 dBm 200800 GHz



●1Pk Ma		.00/100	1	1					
20 dBm-	_					M1[1]		2.402	-0.88 dBm 15000 GHz
10 dBm-	_				_	M2[1]			46.52 dBm 00000 GHz
0 dBm—	_				_				M1
-10 dBm·	_				_				A
-20 dBm·	_	1 -21.504	dBm						
-30 dBm·	_				_				
-40 dBm·	_			M4				Ma	M2 u.
ր <mark>ևլենչչու</mark> ս -50 dBm·	dyndd	-permissional	harddorn	www.popent	when the provide of the second s	hadultantuna	My Barry market	wrhyllburente	may what what
-60 dBm·	+								
-70 dBm									
Start 2. Marker	306	GHZ			1001	pts		Stop	2.406 GHz
Туре	Ref	Trc	X-value		Y-value	Function	Fund	ction Result	
M1		1		2.4 GHz	-0.88 dBn -46.52 dBn				
M2				00.011	-44.10 dBn	1			
MЗ		1		39 GHz		n			
M3 M4 Spectr Ref Lev Att	um vel 2	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn		Roady III	pping Re	of
M3 M4 Spectr Ref Lev Att	um rel 2 unt 1	and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH		pping Re	
M3 M4 Spectr Ref Lev Att SGL Cou	um rel 2 unt 1	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH			
M3 M4 Spectr Ref Lev Att SGL Cou P1Pk Ma 20 dBm-	um rel 2 unt 1	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH			-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou • 1Pk Ma	um rel 2 unt 1	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou P1Pk Ma 20 dBm-	um rel 2 unt 1	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH			-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou • 1Pk Ma 20 dBm- 10 dBm-	um rel 2 unt 1	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou • 1Pk Ma 20 dBm- 10 dBm-	um rel 2 unt 1	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou • 1Pk Ma 20 dBm- 0 dBm- -10 dBm-	um rel 2 unt 1	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou • 1Pk Ma 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	vel 2 unt 1 x	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou IVk Ma 20 dBm- 0 dBm- -10 dBm- -20 dBm-	vel 2 unt 1 x	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou • 1Pk Ma 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	vel 2 unt 1 x	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm-	vel 2 unt 1 x	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou 9 1Pk Ma 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	um rel 2 unt 1 ×	1 and Ec	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т		-1.53 dBm
M3 M4 Spectr Ref Lev Att SGL Cou 9 1Pk Ma 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	um rel 2 unt 1 x	1 and Ec 40 dB 000/1000	2.34 Ige(Hop Offset 7	07 GHz 007 GHz 000000000000000000000000000000000000	-41.56 dBn	H5 2402MH	т	2.404	-1.53 dBm



●1Pk Max	1000/1000								
20 dBm					М	1[1]		2.40	-2.73 dBm 305000 GHz
10 dBm					M	2[1]			-43.67 dBm 000000 GHz
0 dBm								2.10	M1
-10 dBm									Malak
-30 dBm	D1 -21.530	dBm							
-40 dBm			M4					M3	M2
	any way you	www.henner	rbw Muhaubau	nu upportunity	wand	menerality	manulum		Veryalty
-60 dBm									
-70 dBm Start 2.306	GHz			1001	pts			Stop	2.406 GHz
Marker									
_Type Ref	1 Trc	2.4030	5 6 4 7	<u>Y-value</u> -2.73 dBr	Func	tion	Fun	iction Resul	t
M1		2,1030		-43.67 dBr					
M1 M2	1	2.	4 GHz	10.01 001					
M2 M3	1	2.3	9 GHz	-44.90 dBr					
M2 M3 M4 Spectrum Ref Level Att	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3		n		o-Hoppii	ng Ref	4 (The second se
M2 M3 M4 Spectrum Ref Level Att SGL Count	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248	n BOMHz /		odv	ng Ref	
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248	n SOMHZ / Mode A		adv 🚺		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248	n SOMHZ / Mode A	uto FFT	o-Hoppin		
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT	o-Hoppin		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	n SOMHZ / Mode A	uto FFT	o-Hoppin		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT	o-Hoppin		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT	o-Hoppin		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT	ady		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT	o-Hoppin		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT	o-Hoppin		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT			2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT	o-Hoppin		2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT			2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 1 1 27.60 dBm 40 dB	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT			2.39 dBm
M2 M3 M4 Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -40 dBm -70 dBm -70 dBm	1 1 1 27.60 dBm 40 dB 100/100	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT		2.48	2.39 dBm 015180 GHz
M2 M3 M4 Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm	1 1 1 27.60 dBm 40 dB 100/100	2.3 2.339 Edge N Offset 7.6	9 GHz 8 GHz VNT 3	-44.90 dBr -40.41 dBr -DH5 248 BW 100 kHz /BW 300 kHz	Mode A	uto FFT		2.48	2.39 dBm 015180 GHz



20 dBm			MI	l[1]			1.35 dBm
							05000 GHz
10 dBm			MS	2[1]			44.86 dBm 50000 GHz
-10 cBm							
-20 gBm D1 -17.6	506 dBm						
-30 dBm							
-40 dBm/2	M4M3						
W Winnyurburdy	and water and the state of the	rohanounder pransier promound	hallingthankant	pupellinendy-un	hardingener	where the second from	Wringfrom
-60 dBm							
-70 dBm Start 2.476 GHz		100	1 pts		l	Stop 2	2.576 GHz
Marker Type Ref Trc	X-value	Y-value	Funct	ion	Euro	tion Result	
M1 1	2.48005 G	GHz 1.35 dB	Bm		Full	Alon Kesult	
M2 1 M3 1	2.4835 0						
M4 1							
Band E Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10	3m Offset 7.60 d dB SWT 18.9 j	-43.24 dt ng) NVNT 3-E db • RBW 100 kHz us • VBW 300 kHz	DH5 2480		nt1 Hop	pping Re	if
Band E Spectrum Ref Level 27.60 df Att 40	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3		nt1 Hop		2.89 dBm
Band E Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		
Band B Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10 IPk Max	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band E Spectrum Ref Level 27.60 dt Att 40 SGL Count 1000/10 IPk Max 20 dBm- 10 dBm-	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10 DIPk Max 20 dBm 10 dBm M1 0 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10 1Pk Max 20 dBm 10 dBm 10 dBm -10 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10 DIPk Max 20 dBm 10 dBm M1 0 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10 1Pk Max 20 dBm 10 dBm 10 dBm -10 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att SGL Count 1000/10 IPk Max 20 dBm 10 dBm M1 0 dBm -20 dBm -30 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att SGL Count 1000/10 IPk Max 20 dBm 10 dBm M1 0 dBm -20 dBm -30 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band B Spectrum Ref Level 27.60 df Att 40 SGL Count 1000/10 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	nt1 Hop		2.89 dBm
Band I Spectrum Ref Level 27.60 dB Att 40 SGL Count 1000/10 IPk Max 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	• • • • • • • • • • • • • • • • • • •		2.89 dBm
Band I Spectrum Ref Level 27.60 dB Att 40 SGL Count 1000/10 IPk Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Edge(Hoppin 3m offset 7.60 o dB swt 18.9 p	ng) NVNT 3-E	2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3	ito FFT	• • • • • • • • • • • • • • • • • • •	2.477	2.89 dBm

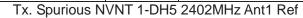


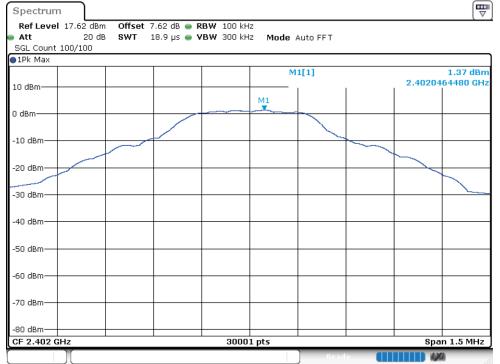
le Auto FFT		
	,	
M1[1] 1.19 dB		
	2.47605000 GHz -44.60 dBm 2.48350000 GHz	
Multure and water on the revent www. with the structure	Ment a such a summer	
a manual management	. Porto como	
Stop 2	2.576 GHz	
unction Function Result	t	



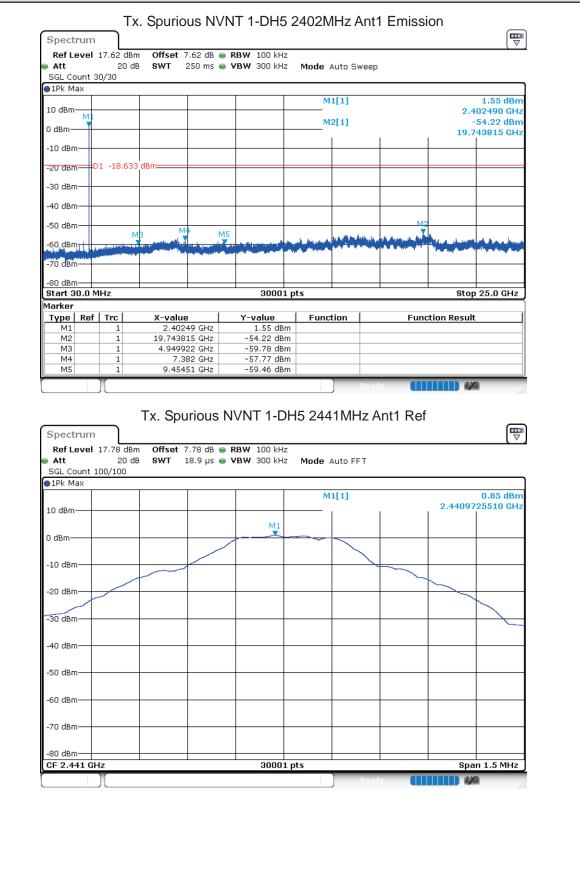
8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict	
NVNT	1-DH5	2402	Ant 1	-55.57732578278	-20	Pass	
NVNT	1-DH5	2441	Ant 1	-54.93837120771	-20	Pass	
NVNT	1-DH5	2480	Ant 1	-57.43454108238	-20	Pass	
NVNT	2-DH5	2402	Ant 1	-52.62458873272	-20	Pass	
NVNT	2-DH5	2441	Ant 1	-53.35480615616	-20	Pass	
NVNT	2-DH5	2480	Ant 1	-55.69128477573	-20	Pass	
NVNT	3-DH5	2402	Ant 1	-51.51625424385	-20	Pass	
NVNT	3-DH5	2441	Ant 1	-50.7964514792	-20	Pass	
NVNT	3-DH5	2480	Ant 1	-49.89188602448	-20	Pass	

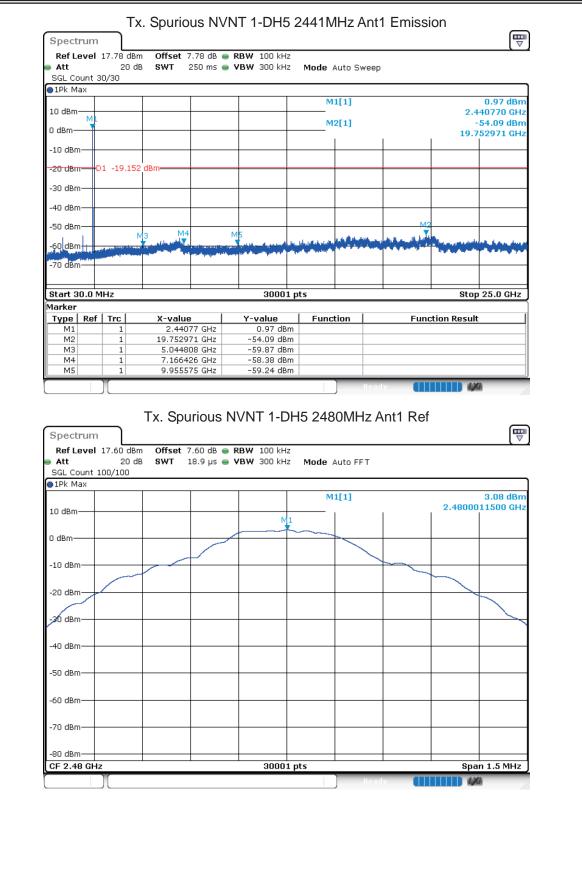




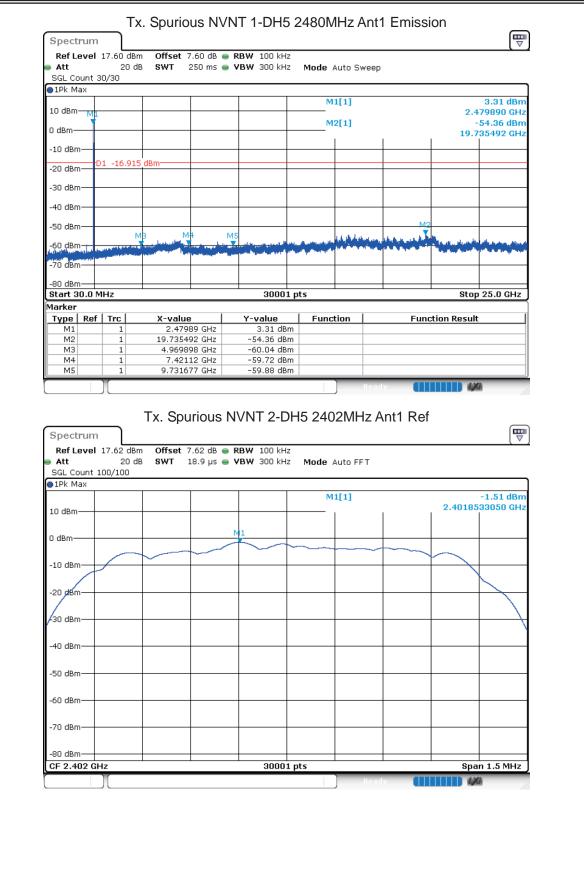




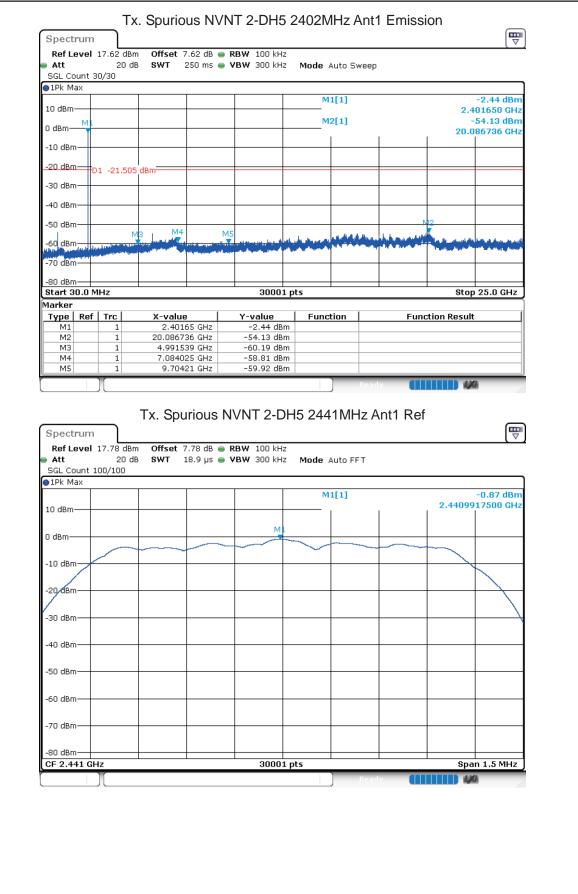




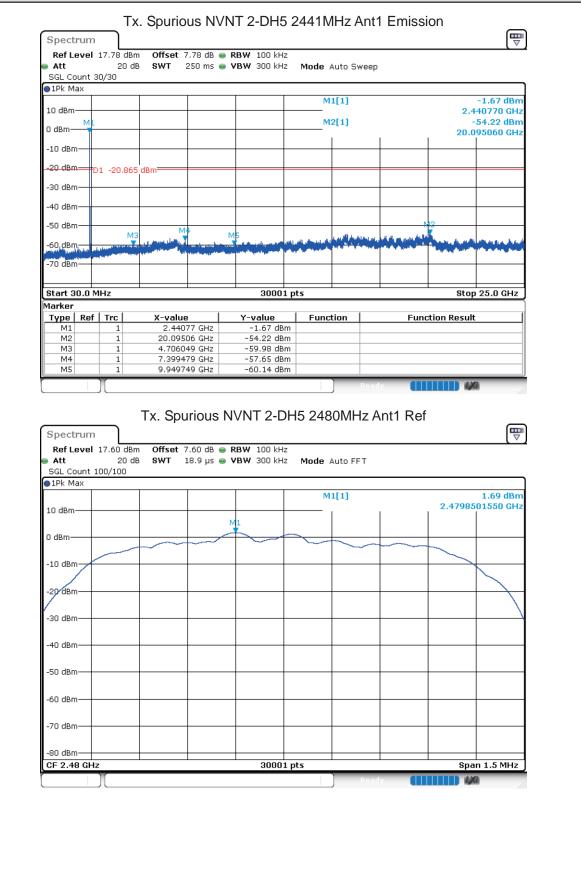




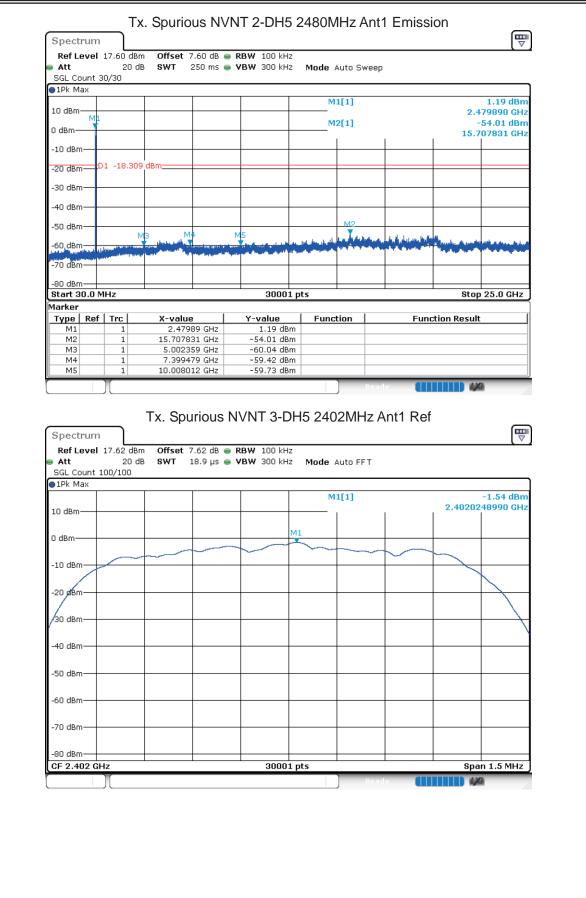




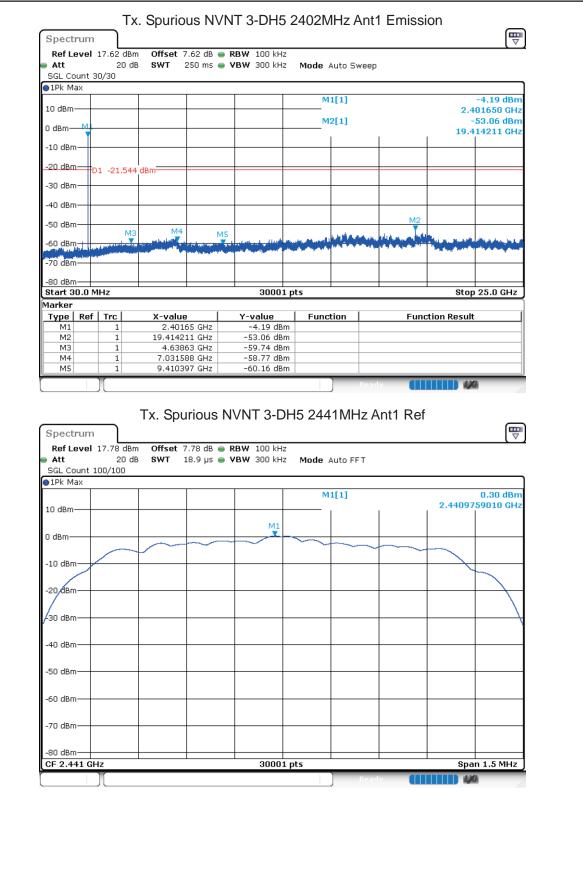




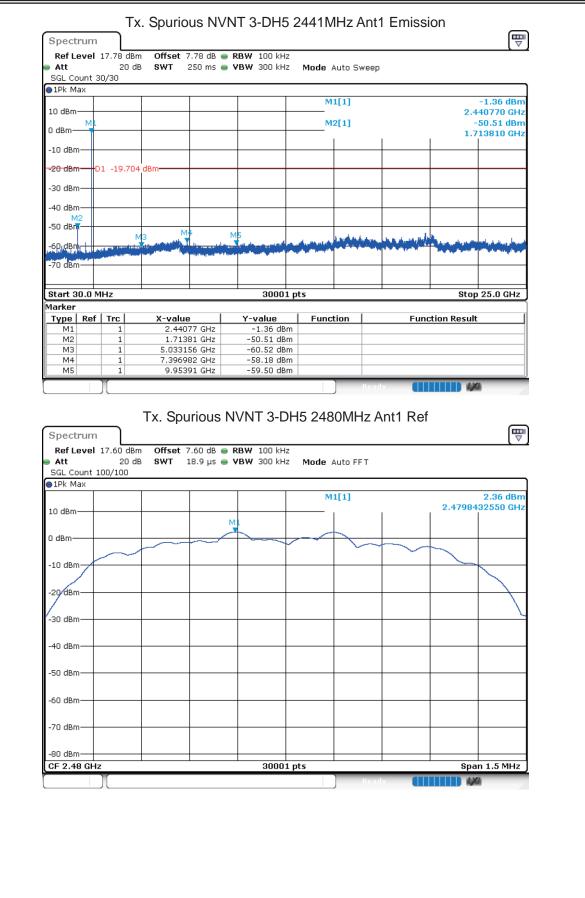




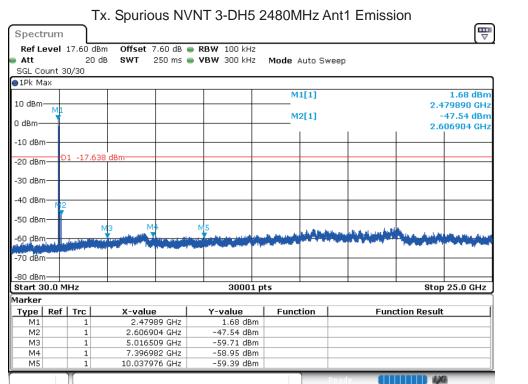












END OF REPORT