

RADIO TEST REPORT FCC ID: QRP-SP-026

Product: Mobile Phone

Trade Mark: AZUMI

Model No.: V5

Family Model: V5+

Report No.: S21061501302001

Issue Date: Jul 05, 2021

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, Panama

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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1 TEST RESULT CERTIFICATION

Applicant's name:	Azumi S.A
Address:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza,
	Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama
Manufacturer's Name:	AZUMI HK LTD
Address:	FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING 16-26 KWAI TAK STREET KWAI CHUNG, HK
Product description	
Product name:	Mobile Phone
Model and/or type reference:	V5
Family Model:	V5+

Measurement Procedure Used:

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

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

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

Date of Test	: <u> </u>	Jun 15,2021 ~Jul 05,2021	
Testing Engineer	:	Men lin	
		(Allen Liu)	
Technical Manager	:	Chemy Travien	
		(Cheng Jiawen)	
Authorized Signatory		Alex	
Authorized Signatory	-	(Alex Li)	

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2 SUMMARY OF TEST RESULTS

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

Remark:

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

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3 FACILITIES AND ACCREDITATIONS

3.1 **FACILITIES**

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

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

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration
The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

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

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

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

3.3 MEASUREMENT UNCERTAINTY

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

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

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ACCREDITED
Certificate #4298.01

Report No.: S21061501302001

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	Mobile Phone		
Trade Mark	AZUMI		
FCC ID	QRP-SP-026		
Model No.	V5		
Family Model	V5+		
Model Difference	All the model are the same circuit and RF module, except the Model names.		
Operating Frequency	2402MHz~2480MHz		
Modulation	GFSK, π/4-DQPSK, 8-DPSK		
Number of Channels	79 Channels		
Antenna Type	FPC Antenna		
Antenna Gain	0.9 dBi		
Power supply	DC 3.7V, 2000mAh from battery or DC 5V from Adapter.		
Adapter	Input: AC 100-240V~50-60Hz 0.2A Output: DC 5.0V 1A		
HW Version	Azumi_V5_HW-1		
SW Version	AZUMI_V5_CENAM_V001		

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

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

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Revision History

Report No.	Version	Description	Issued Date
S21061501302001	Rev.01	Initial issue of report	Jul 05, 2021

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5 DESCRIPTION OF TEST MODES

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

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

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

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

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

Carrier Frequency and Channel list:

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

Note: fc=2402MHz+k×1MHz k=0 to 78

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

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

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

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

Note: For radiated test cases, the worst mode data rate 1Mbps 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.

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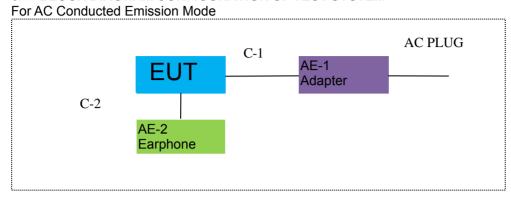






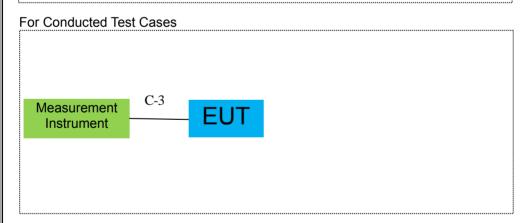
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



For Radiated Test Cases

EUT



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

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

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6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	Earphone Cable	NO	NO	1.2m
C-3	RF Cable	YES	NO	0.1m

Notes:

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

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

<u>Radiatio</u>	on& Conducted 1	est equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.04.27	2022.04.26	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.08.07	2021.08.06	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.20	2021.11.19	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.20	2021.11.19	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2020.11.20	2021.11.19	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.6	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.6	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.04.11	2021.04.10	1 year
16	Filter	TRILTHIC	2400MHz	29	2020.11.20	2021.11.19	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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

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

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

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

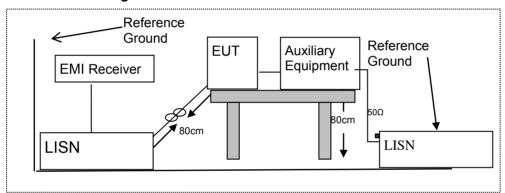
7.1.2 Conformance Limit

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

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

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

7.1.3 Test Configuration



7.1.4 Test Procedure

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

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 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

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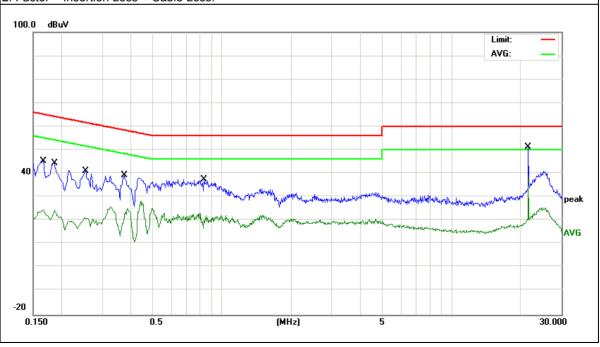
7.1.6 Test Results

EUT:	Mobile Phone	Model Name:	V5
Temperature:	22.2 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	35.66	9.56	45.22	65.15	-19.93	QP
0.1660	18.73	9.56	28.29	55.15	-26.86	AVG
0.1860	34.87	9.55	44.42	64.21	-19.79	QP
0.1860	24.81	9.55	34.36	54.21	-19.85	AVG
0.2540	31.56	9.54	41.10	61.62	-20.52	QP
0.2540	21.72	9.54	31.26	51.62	-20.36	AVG
0.3740	29.68	9.55	39.23	58.41	-19.18	QP
0.3740	19.70	9.55	29.25	48.41	-19.16	AVG
0.8340	27.91	9.55	37.46	56.00	-18.54	QP
0.8340	13.56	9.55	23.11	46.00	-22.89	AVG
21.5340	41.44	9.94	51.38	60.00	-8.62	QP
21.5340	28.98	9.94	38.92	50.00	-11.08	AVG

Remark:

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



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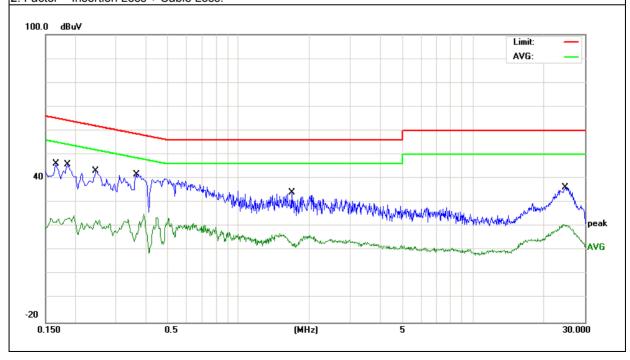


EUT:	Mobile Phone	Model Name:	V5
Temperature:	22.2 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Phase :	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damada
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	36.50	9.55	46.05	65.15	-19.10	QP
0.1660	15.07	9.55	24.62	55.15	-30.53	AVG
0.1860	36.43	9.54	45.97	64.21	-18.24	QP
0.1860	25.82	9.54	35.36	54.21	-18.85	AVG
0.2460	33.70	9.54	43.24	61.89	-18.65	QP
0.2460	24.11	9.54	33.65	51.89	-18.24	AVG
0.3660	32.10	9.54	41.64	58.59	-16.95	QP
0.3660	15.61	9.54	25.15	48.59	-23.44	AVG
1.6820	24.54	9.57	34.11	56.00	-21.89	QP
1.6820	6.89	9.57	16.46	46.00	-29.54	AVG
24.7380	26.33	9.91	36.24	60.00	-23.76	QP
24.7380	11.01	9.91	20.92	50.00	-29.08	AVG

Remark:

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



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7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

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

According to 1 GO 1 dr. 10:200, rectificted balles					
MHz	MHz	GHz			
16.42-16.423	399.9-410	4.5-5.15			
16.69475-16.69525	608-614	5.35-5.46			
16.80425-16.80475	960-1240	7.25-7.75			
25.5-25.67	1300-1427	8.025-8.5			
37.5-38.25	1435-1626.5	9.0-9.2			
73-74.6	1645.5-1646.5	9.3-9.5			
74.8-75.2	1660-1710	10.6-12.7			
123-138	2200-2300	14.47-14.5			
149.9-150.05	2310-2390	15.35-16.2			
156.52475-156.52525	2483.5-2500	17.7-21.4			
156.7-156.9	2690-2900	22.01-23.12			
162.0125-167.17	3260-3267	23.6-24.0			
167.72-173.2	3332-3339	31.2-31.8			
240-285	3345.8-3358	36.43-36.5			
322-335.4	3600-4400	(2)			
	_	_			
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHz MHz 16.42-16.423 399.9-410 16.69475-16.69525 608-614 16.80425-16.80475 960-1240 25.5-25.67 1300-1427 37.5-38.25 1435-1626.5 73-74.6 1645.5-1646.5 74.8-75.2 1660-1710 123-138 2200-2300 149.9-150.05 2310-2390 156.52475-156.52525 2483.5-2500 156.7-156.9 2690-2900 162.0125-167.17 3260-3267 167.72-173.2 3332-3339 240-285 3345.8-3358			

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

- 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.

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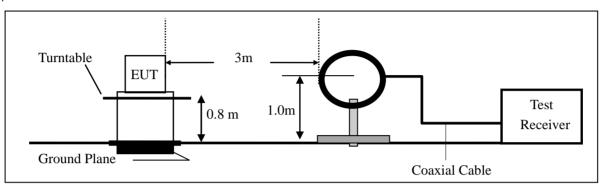


7.2.3 Measuring Instruments

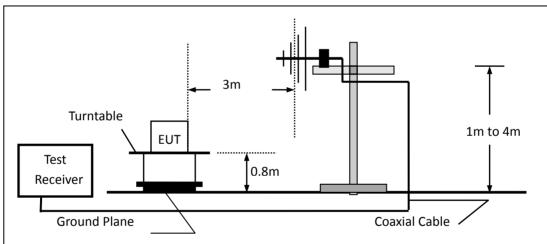
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

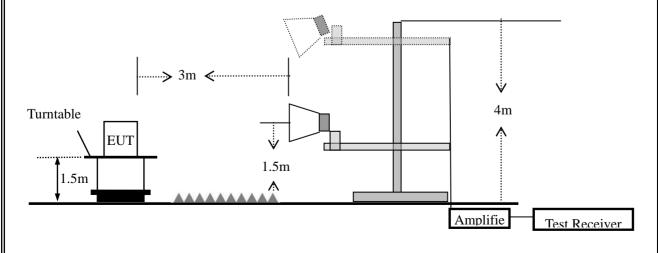
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 1000MHz



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7.2.5 Test Procedure

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

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

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

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

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

Note:

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

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

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

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

7.2.6 Test Results

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

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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

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

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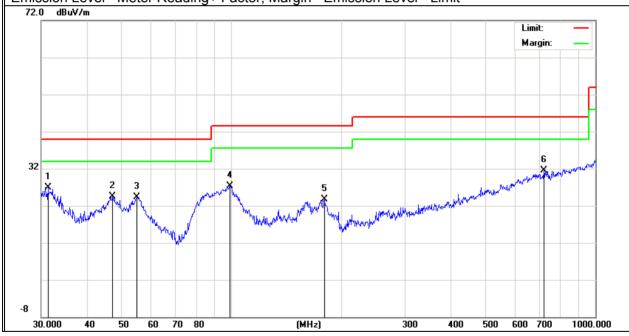
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Mobile Phone	Model Name:	V5
Temperature:	24.6 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage:	DC 3.7V		

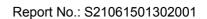
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
V	31.2893	8.95	18.05	27.00	40.00	-13.00	QP	
V	47.1599	14.24	10.21	24.45	40.00	-15.55	QP	
V	55.0274	17.59	6.70	24.29	40.00	-15.71	QP	
V	99.1797	16.77	10.55	27.32	43.50	-16.18	QP	
V	180.0165	13.17	10.55	23.72	43.50	-19.78	QP	
V	721.7259	7.54	23.88	31.42	46.00	-14.58	QP	

Remark:

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



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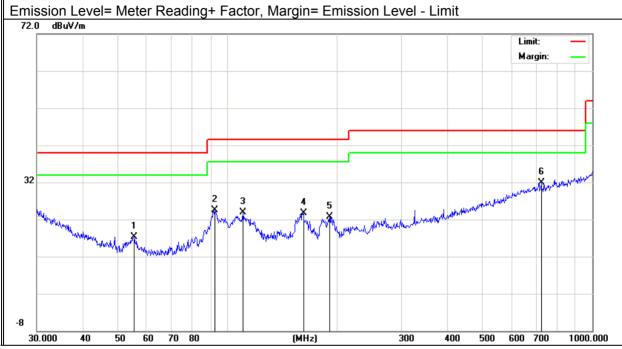






Polar	Frequency	Meter Reading	Factor I imits		Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
Н	55.4147	10.83	6.56	17.39	40.00	-22.61	QP	
Н	92.4624	14.19	10.28	24.47	43.50	-19.03	QP	
Н	110.1816	12.67	11.24	23.91	43.50	-19.59	QP	
Н	161.4742	11.55	12.08	23.63	43.50	-19.87	QP	
Н	190.4050	12.69	9.99	22.68	43.50	-20.82	QP	
Н	724.2611	7.96	23.88	31.84	46.00	-14.16	QP	

Remark:



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

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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

Frequency									1			
MHz	Frequency						Limits	Margin	Remark	Comment		
4804.214	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
A804.214		Low Channel (2402 MHz)(8-DPSK)Above 1G										
7206.265 60.50 6.48 36.27 44.60 58.65 74.00 -15.35 Pk Vertical 7206.265 44.56 6.48 36.27 44.60 42.71 54.00 -11.29 AV Vertical 4804.109 60.95 5.21 35.55 44.30 57.41 74.00 -16.59 Pk Horizontal 4804.109 43.60 5.21 35.55 44.30 40.06 54.00 -13.94 AV Horizontal 7206.224 63.94 6.48 36.27 44.52 62.17 74.00 -11.83 Pk Horizontal Mid Channel (2441 MHz)(8-DPSK)-Above 1G Mid Channel (2441 MHz)(8-DPSK)-Above 1G 4882.396 62.76 5.21 35.66 44.20 59.43 74.00 -14.57 Pk Vertical 4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.93 Pk Vertical 7323.241 59.90 7.10	4804.214	63.99	5.21	35.59	44.30	60.49	74.00	-13.51	Pk	Vertical		
7206.265 44.56 6.48 36.27 44.60 42.71 54.00 -11.29 AV Vertical 4804.109 60.95 5.21 35.55 44.30 57.41 74.00 -16.59 Pk Horizontal 4804.109 43.60 5.21 35.55 44.30 40.06 54.00 -13.94 AV Horizontal 7206.224 63.94 6.48 36.27 44.52 62.17 74.00 -11.83 Pk Horizontal Mid Channel (2441 MHz)(8-DPSK)-Above 1G Mid Channel (2441 MHz)(8-DPSK)-Above 1G 4882.396 62.76 5.21 35.66 44.20 59.43 74.00 -14.57 Pk Vertical 4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.93 Pk Vertical 7323.241 47.85 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 4882.108 60.53 5.21	4804.214	42.10	5.21	35.59	44.30	38.60	54.00	-15.40	AV	Vertical		
4804.109 60.95 5.21 35.55 44.30 57.41 74.00 -16.59 Pk Horizontal 4804.109 43.60 5.21 35.55 44.30 40.06 54.00 -13.94 AV Horizontal 7206.224 63.94 6.48 36.27 44.52 62.17 74.00 -11.83 Pk Horizontal Mid Channel (2441 MHz)(8-DPSK)-Above 1G Mid Channel (2441 MHz)(8-DPSK)-Above 1G 4882.396 62.76 5.21 35.66 44.20 59.43 74.00 -14.57 Pk Vertical 4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.03 AV Vertical 7323.241 59.90 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21	7206.265	60.50	6.48	36.27	44.60	58.65	74.00	-15.35	Pk	Vertical		
4804.109 43.60 5.21 35.55 44.30 40.06 54.00 -13.94 AV Horizontal 7206.224 63.94 6.48 36.27 44.52 62.17 74.00 -11.83 Pk Horizontal 7206.224 47.88 6.48 36.27 44.52 46.11 54.00 -7.89 AV Horizontal Mid Channel (2441 MHz)(8-DPSK)-Above 1G Wid Channel (2441 MHz)(8-DPSK)-Above 1G 4882.396 62.76 5.21 35.66 44.20 59.43 74.00 -14.57 Pk Vertical 4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.03 AV Vertical 7323.241 59.90 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21	7206.265	44.56	6.48	36.27	44.60	42.71	54.00	-11.29	AV	Vertical		
7206.224 63.94 6.48 36.27 44.52 62.17 74.00 -11.83 Pk Horizontal 7206.224 47.88 6.48 36.27 44.52 46.11 54.00 -7.89 AV Horizontal Mid Channel (2441 MHz)(8-DPSK)-Above 1G 4882.396 62.76 5.21 35.66 44.20 59.43 74.00 -14.57 Pk Vertical 4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.03 AV Vertical 7323.241 59.90 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21 35.66 44.20 47.00 -16.80 Pk Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11	4804.109	60.95	5.21	35.55	44.30	57.41	74.00	-16.59	Pk	Horizontal		
7206.224 47.88 6.48 36.27 44.52 46.11 54.00 -7.89 AV Horizontal 4882.396 62.76 5.21 35.66 44.20 59.43 74.00 -14.57 Pk Vertical 4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.03 AV Vertical 7323.241 59.90 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 7323.241 47.85 7.10 36.50 44.43 47.02 54.00 -6.98 AV Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21 35.66 44.20 47.63 54.00 -9.37 AV Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.31 Pk Horizontal 73	4804.109	43.60	5.21	35.55	44.30	40.06	54.00	-13.94	AV	Horizontal		
Mid Channel (2441 MHz)(8-DPSK)-Above 1G	7206.224	63.94	6.48	36.27	44.52	62.17	74.00	-11.83	Pk	Horizontal		
4882.396 62.76 5.21 35.66 44.20 59.43 74.00 -14.57 Pk Vertical 4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.03 AV Vertical 7323.241 59.90 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21 35.66 44.20 44.63 54.00 -9.37 AV Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11 Pk Horizontal 7323.132 61.72 7.10 36.50 44.43 40.68 54.00 -13.31 Pk Horizontal 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical	7206.224	47.88	6.48	36.27	44.52	46.11	54.00	-7.89	AV	Horizontal		
4882.396 43.30 5.21 35.66 44.20 39.97 54.00 -14.03 AV Vertical 7323.241 59.90 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 7323.241 47.85 7.10 36.50 44.43 47.02 54.00 -6.98 AV Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21 35.66 44.20 44.63 54.00 -9.37 AV Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11 Pk Horizontal 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -10.08 Pk Vertical 496				Mid Cha	nnel (2441	MHz)(8-DPS	K)-Above 1G	;				
7323.241 59.90 7.10 36.50 44.43 59.07 74.00 -14.93 Pk Vertical 7323.241 47.85 7.10 36.50 44.43 47.02 54.00 -6.98 AV Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21 35.66 44.20 44.63 54.00 -9.37 AV Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11 Pk Horizontal 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 496	4882.396	62.76	5.21	35.66	44.20	59.43	74.00	-14.57	Pk	Vertical		
7323.241 47.85 7.10 36.50 44.43 47.02 54.00 -6.98 AV Vertical 4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21 35.66 44.20 44.63 54.00 -9.37 AV Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11 Pk Horizontal High Channel (2480 MHz)(8-DPSK) Above 1G 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -	4882.396	43.30	5.21	35.66	44.20	39.97	54.00	-14.03	AV	Vertical		
4882.108 60.53 5.21 35.66 44.20 57.20 74.00 -16.80 Pk Horizontal 4882.108 47.96 5.21 35.66 44.20 44.63 54.00 -9.37 AV Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11 Pk Horizontal High Channel (2480 MHz)(8-DPSK) Above 1G High Channel (2480 MHz)(8-DPSK) Above 1G 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 3	7323.241	59.90	7.10	36.50	44.43	59.07	74.00	-14.93	Pk	Vertical		
4882.108 47.96 5.21 35.66 44.20 44.63 54.00 -9.37 AV Horizontal 7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11 Pk Horizontal High Channel (2480 MHz)(8-DPSK) Above 1G High Channel (2480 MHz)(8-DPSK) Above 1G 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35	7323.241	47.85	7.10	36.50	44.43	47.02	54.00	-6.98	AV	Vertical		
7323.132 61.72 7.10 36.50 44.43 60.89 74.00 -13.11 Pk Horizontal 7323.132 41.51 7.10 36.50 44.43 40.68 54.00 -13.32 AV Horizontal High Channel (2480 MHz)(8-DPSK) Above 1G 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00	4882.108	60.53	5.21	35.66	44.20	57.20	74.00	-16.80	Pk	Horizontal		
7323.132 41.51 7.10 36.50 44.43 40.68 54.00 -13.32 AV Horizontal High Channel (2480 MHz)(8-DPSK) Above 1G 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -	4882.108	47.96	5.21	35.66	44.20	44.63	54.00	-9.37	AV	Horizontal		
High Channel (2480 MHz)(8-DPSK) Above 1G 4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal	7323.132	61.72	7.10	36.50	44.43	60.89	74.00	-13.11	Pk	Horizontal		
4960.397 67.40 5.21 35.52 44.21 63.92 74.00 -10.08 Pk Vertical 4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal	7323.132	41.51	7.10	36.50	44.43	40.68	54.00	-13.32	AV	Horizontal		
4960.397 43.05 5.21 35.52 44.21 39.57 54.00 -14.43 AV Vertical 7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal				High Char	nnel (2480 l	MHz)(8-DPS	K) Above 1	G				
7440.201 62.18 7.10 36.53 44.60 61.21 74.00 -12.79 Pk Vertical 7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal	4960.397	67.40	5.21	35.52	44.21	63.92	74.00	-10.08	Pk	Vertical		
7440.201 44.96 7.10 36.53 44.60 43.99 54.00 -10.01 AV Vertical 4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal	4960.397	43.05	5.21	35.52	44.21	39.57	54.00	-14.43	AV	Vertical		
4960.225 68.58 5.21 35.52 44.21 65.10 74.00 -8.90 Pk Horizontal 4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal	7440.201	62.18	7.10	36.53	44.60	61.21	74.00	-12.79	Pk	Vertical		
4960.225 48.28 5.21 35.52 44.21 44.80 54.00 -9.20 AV Horizontal 7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal	7440.201	44.96	7.10	36.53	44.60	43.99	54.00	-10.01	AV	Vertical		
7440.298 62.37 7.10 36.53 44.60 61.40 74.00 -12.60 Pk Horizontal	4960.225	68.58	5.21	35.52	44.21	65.10	74.00	-8.90	Pk	Horizontal		
	4960.225	48.28	5.21	35.52	44.21	44.80	54.00	-9.20	AV	Horizontal		
7440.298 45.92 7.10 36.53 44.60 44.95 54.00 -9.05 AV Horizontal	7440.298	62.37	7.10	36.53	44.60	61.40	74.00	-12.60	Pk	Horizontal		
	7440.298	45.92	7.10	36.53	44.60	44.95	54.00	-9.05	AV	Horizontal		

Note:

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

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

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu

All the mo	All the modulation modes have been tested, and the worst result was report as below:								
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
			3	Mbps(8-DF	PSK)- Non-ho	opping			
2310.00	58.50	2.97	27.80	43.80	45.47	74	-28.53	Pk	Horizontal
2310.00	43.22	2.97	27.80	43.80	30.19	54	-23.81	AV	Horizontal
2310.00	58.71	2.97	27.80	43.80	45.68	74	-28.32	Pk	Vertical
2310.00	43.36	2.97	27.80	43.80	30.33	54	-23.67	AV	Vertical
2390.00	58.54	3.14	27.21	43.80	45.09	74	-28.91	Pk	Vertical
2390.00	41.92	3.14	27.21	43.80	28.47	54	-25.53	AV	Vertical
2390.00	57.15	3.14	27.21	43.80	43.70	74	-30.30	Pk	Horizontal
2390.00	42.47	3.14	27.21	43.80	29.02	54	-24.98	AV	Horizontal
2483.50	57.63	3.58	27.70	44.00	44.91	74	-29.09	Pk	Vertical
2483.50	43.04	3.58	27.70	44.00	30.32	54	-23.68	AV	Vertical
2483.50	60.39	3.58	27.70	44.00	47.67	74	-26.33	Pk	Horizontal
2483.50	43.42	3.58	27.70	44.00	30.70	54	-23.30	AV	Horizontal
				3Mbps(8-	DPSK)- hopp	oing			
2310.00	54.38	2.97	27.80	43.80	41.35	74.00	-32.65	Pk	Vertical
2310.00	44.94	2.97	27.80	43.80	31.91	54.00	-22.09	AV	Vertical
2310.00	51.72	2.97	27.80	43.80	38.69	74.00	-35.31	Pk	Horizontal
2310.00	44.86	2.97	27.80	43.80	31.83	54.00	-22.17	AV	Horizontal
2390.00	52.64	3.14	27.21	43.80	39.19	74.00	-34.81	Pk	Vertical
2390.00	44.06	3.14	27.21	43.80	30.61	54.00	-23.39	AV	Vertical
2390.00	51.53	3.14	27.21	43.80	38.08	74.00	-35.92	Pk	Horizontal
2390.00	41.37	3.14	27.21	43.80	27.92	54.00	-26.08	AV	Horizontal
2483.50	53.71	3.58	27.70	44.00	40.99	74.00	-33.01	Pk	Vertical
2483.50	42.34	3.58	27.70	44.00	29.62	54.00	-24.38	AV	Vertical
2483.50	53.18	3.58	27.70	44.00	40.46	74.00	-33.54	Pk	Horizontal
2483.50	42.34	3.58	27.70	44.00	29.62	54.00	-24.38	AV	Horizontal

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

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■ Spurious Emission in Restricted Band 3260MHz-18000MHz

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu

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

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	56.41	4.04	29.57	44.70	45.32	54	-8.68	Pk	Vertical
3260	61.65	4.04	29.57	44.70	50.56	74	-23.44	AV	Vertical
3260	56.64	4.04	29.57	44.70	45.55	54	-8.45	Pk	Horizontal
3332	64.56	4.26	29.87	44.40	54.29	74	-19.71	AV	Horizontal
3332	53.12	4.26	29.87	44.40	42.85	54	-11.15	Pk	Vertical
3332	63.97	4.26	29.87	44.40	53.70	74	-20.30	AV	Vertical
3332	53.88	4.26	29.87	44.40	43.61	54	-10.39	Pk	Horizontal
17797	44.29	10.99	43.95	43.50	55.73	74	-18.27	AV	Horizontal
17797	32.11	10.99	43.95	43.50	43.55	54	-10.45	Pk	Vertical
17788	44.44	11.81	43.69	44.60	55.34	74	-18.66	AV	Vertical
17788	31.98	11.81	43.69	44.60	42.88	54	-11.12	Pk	Horizontal
3260	56.41	4.04	29.57	44.70	45.32	54	-8.68	AV	Horizontal

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

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7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

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

7.3.2 Conformance Limit

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

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

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

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

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

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel

spacing or the 20 dB bandwidth, whichever is smaller.

VBW ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Allen Liu

Test data reference attachment.

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7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

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

7.4.2 Conformance Limit

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

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2

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

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

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

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary

to best identify the center of each individual channel.

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

7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

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7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

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

7.5.2 Conformance Limit

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

7.5.3 Measuring Instruments

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4

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

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

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

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW ≥ 1MHz

 $VBW \geq RBW$

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

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

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

Measure the maximum time duration of one single pulse.

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7.5.6 Test Results

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

Note:

A Period Time = (channel number)*0.4

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

For Example:

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

3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

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7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

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

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2

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

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

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

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

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

RBW ≥ 1% of the 20 dB bandwidth

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

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7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

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

7.7.2 Conformance Limit

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

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

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

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

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

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

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

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

RBW ≥ the 20 dB bandwidth of the emission being measured

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

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7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

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

7.8.2 Conformance Limit

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

7.8.3 Measuring Instruments

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

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

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

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

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

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

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

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

RBW = 100KHz

VBW = 300KHz

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

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

Repeat above procedures until all measured frequencies were complete.

7.8.6 Test Results

EUT:	Mobile Phone	Model No.:	V5
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Allen Liu

Test data reference attachment.

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7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

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

7.9.2 Conformance Limit

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

7.9.3 Measuring Instruments

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

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

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

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

7.9.6 Test Results

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

Test data reference attachment.

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7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

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

7.10.2 Result

The EUT antenna is permanent attached FPC antenna (Gain: 0.9dBi). It comply with the standard requirement.

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

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmister be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

7.11.2 Frequency Hopping System

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

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

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

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

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

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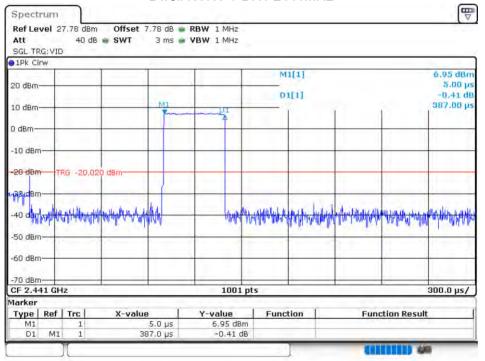


TEST RESULTS

8.1 **DWELL TIME**

Condition Mc		Frequency	Pulse	Total Dwell	Period	Limit	Verdict
Condition		(MHz)	Time (ms)	Time (ms)	Time (ms)	(ms)	veruici
NVNT	1-DH1	2441	0.387	123.84	31600	400	Pass
NVNT	1-DH3	2441	1.64	262.4	31600	400	Pass
NVNT	1-DH5	2441	2.896	308.907	31600	400	Pass
NVNT	2-DH1	2441	0.381	121.92	31600	400	Pass
NVNT	2-DH3	2441	1.625	260	31600	400	Pass
NVNT	2-DH5	2441	2.872	306.347	31600	400	Pass
NVNT	3-DH1	2441	0.381	121.92	31600	400	Pass
NVNT	3-DH3	2441	1.625	260	31600	400	Pass
NVNT	3-DH5	2441	2.864	305.493	31600	400	Pass

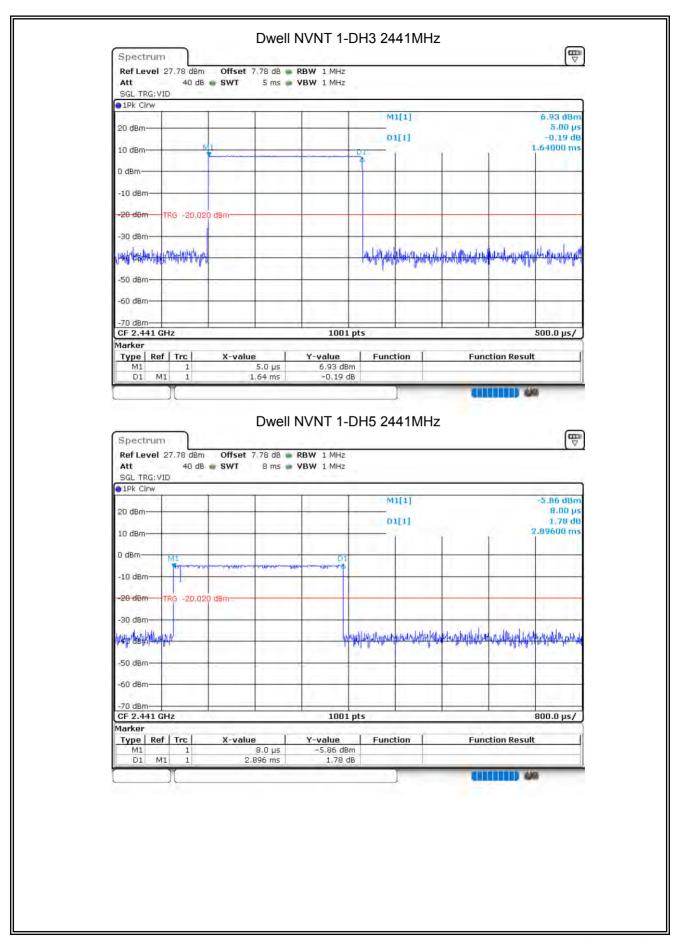
Dwell NVNT 1-DH1 2441MHz



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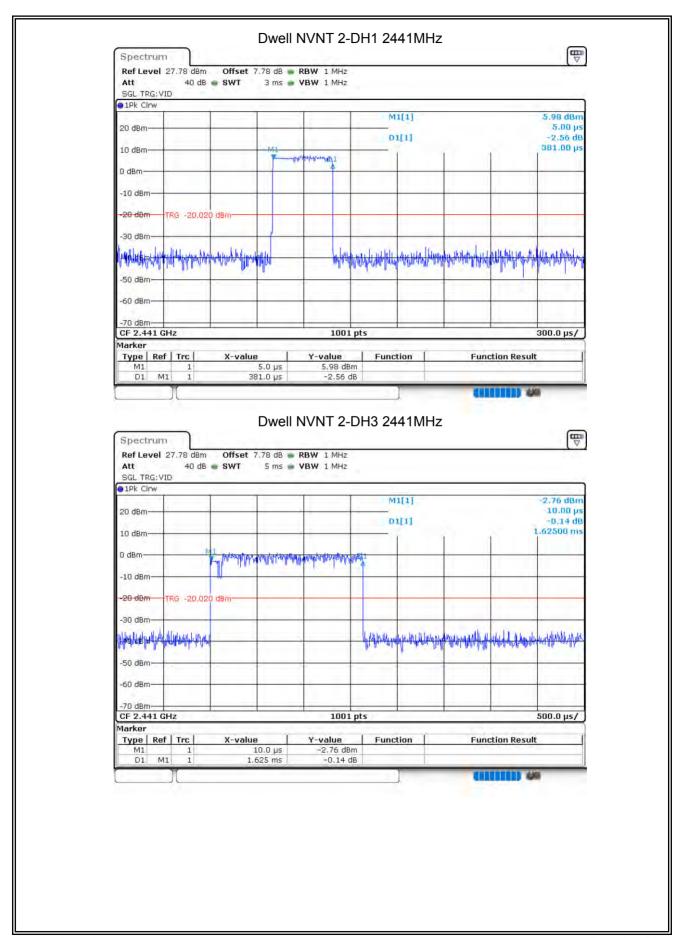




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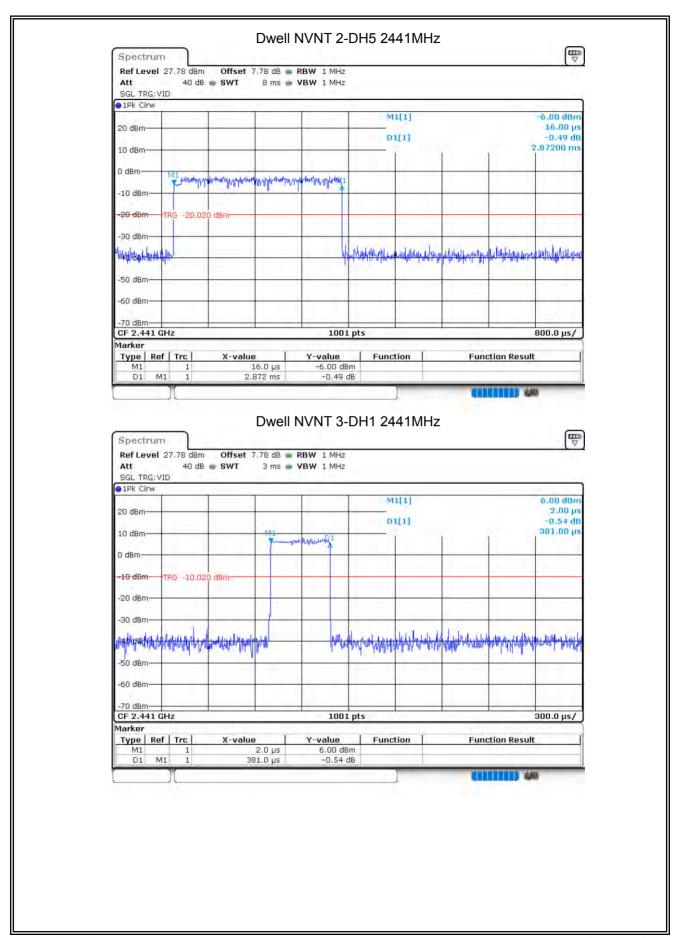




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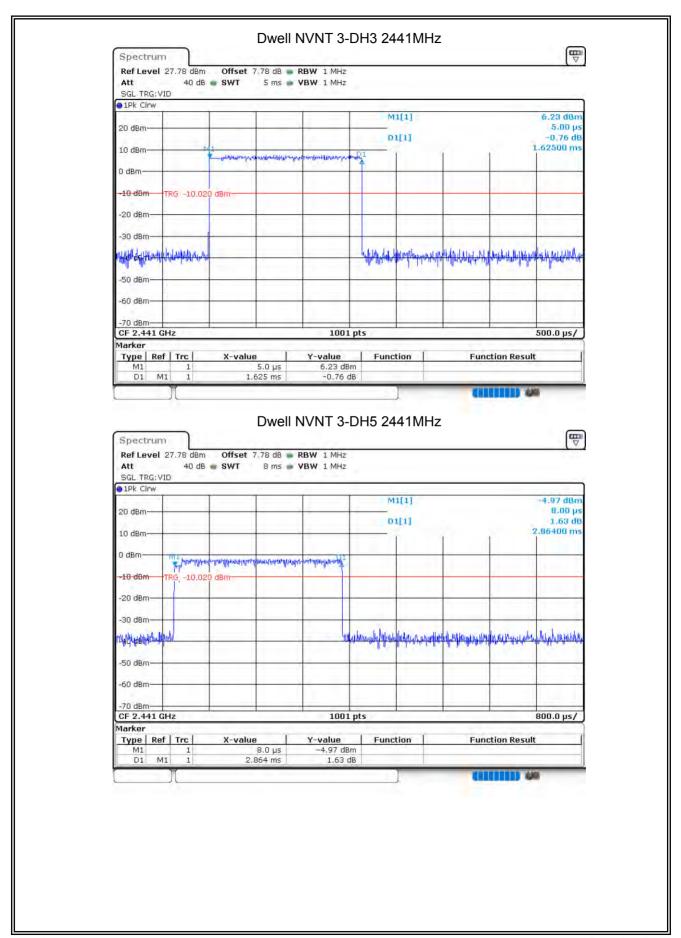




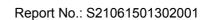
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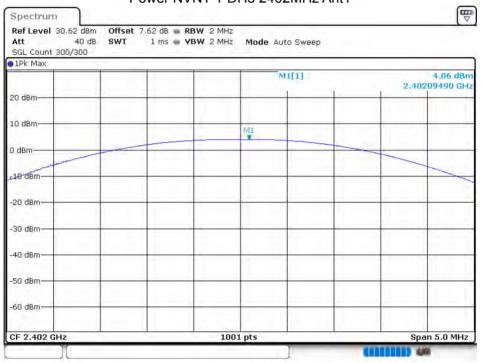




8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	4.059	30	Pass
NVNT	1-DH5	2441	Ant 1	3.025	30	Pass
NVNT	1-DH5	2480	Ant 1	3.938	30	Pass
NVNT	2-DH5	2402	Ant 1	4.756	21	Pass
NVNT	2-DH5	2441	Ant 1	5.093	21	Pass
NVNT	2-DH5	2480	Ant 1	4.48	21	Pass
NVNT	3-DH5	2402	Ant 1	5.063	21	Pass
NVNT	3-DH5	2441	Ant 1	5.519	21	Pass
NVNT	3-DH5	2480	Ant 1	4.723	21	Pass

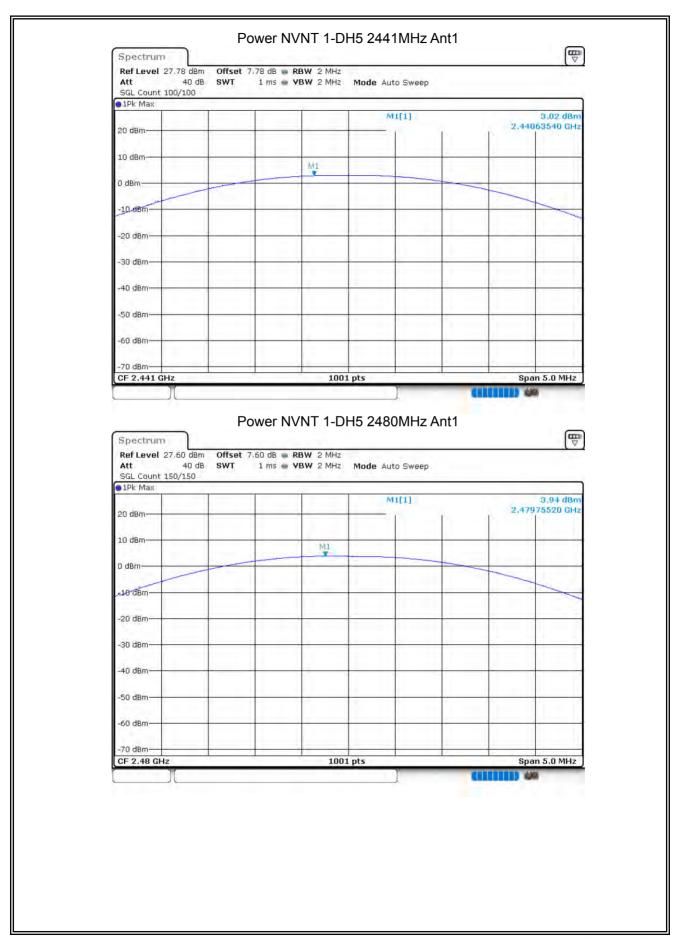
Power NVNT 1-DH5 2402MHz Ant1



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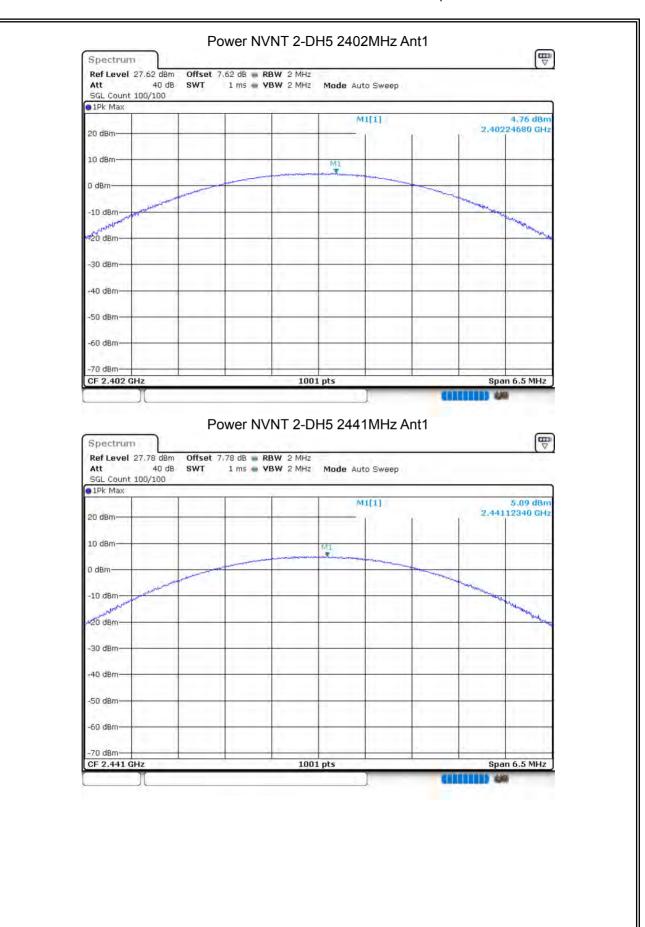




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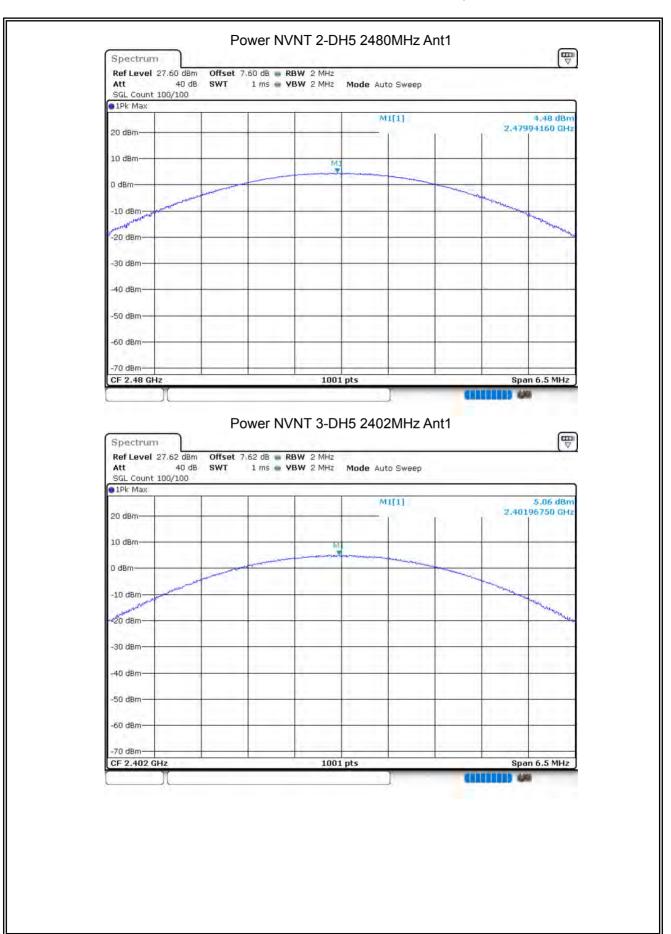




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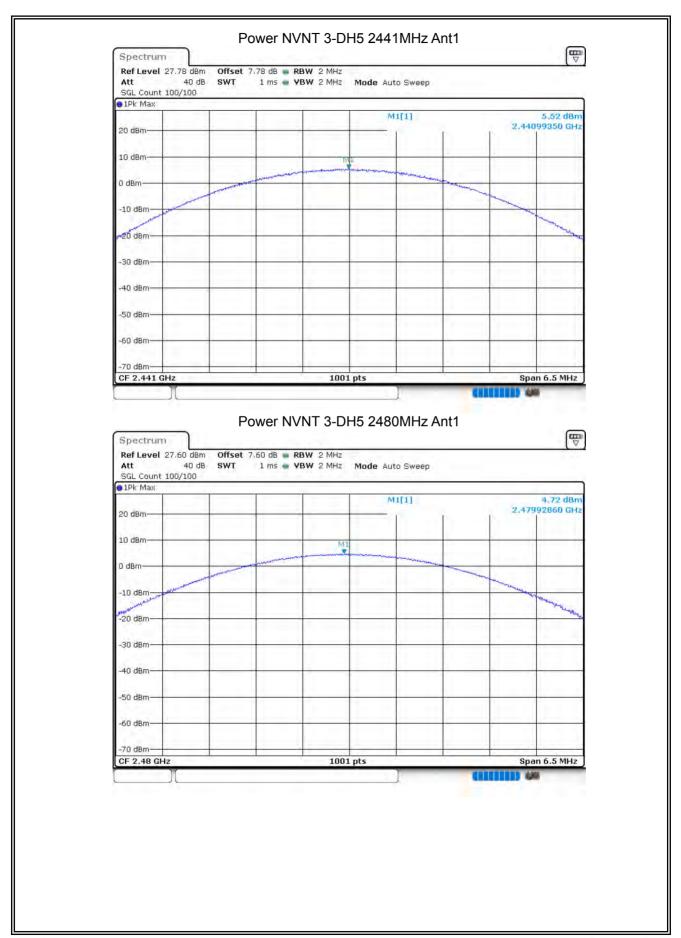




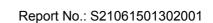
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8.3 OCCUPIED CHANNEL BANDWIDTH

Condition Mode	Mode	Frequency	Antenna	99% OBW	-20 dB Bandwidth	Verdict
		(MHz)		(MHz)	(MHz)	
NVNT	1-DH5	2402	Ant 1	0.8971	0.948	Pass
NVNT	1-DH5	2441	Ant 1	0.8511	0.938	Pass
NVNT	1-DH5	2480	Ant 1	0.8611	0.95	Pass
NVNT	2-DH5	2402	Ant 1	1.1868	1.292	Pass
NVNT	2-DH5	2441	Ant 1	1.1788	1.288	Pass
NVNT	2-DH5	2480	Ant 1	1.1888	1.284	Pass
NVNT	3-DH5	2402	Ant 1	1.1788	1.288	Pass
NVNT	3-DH5	2441	Ant 1	1.1748	1.286	Pass
NVNT	3-DH5	2480	Ant 1	1.1908	1.286	Pass

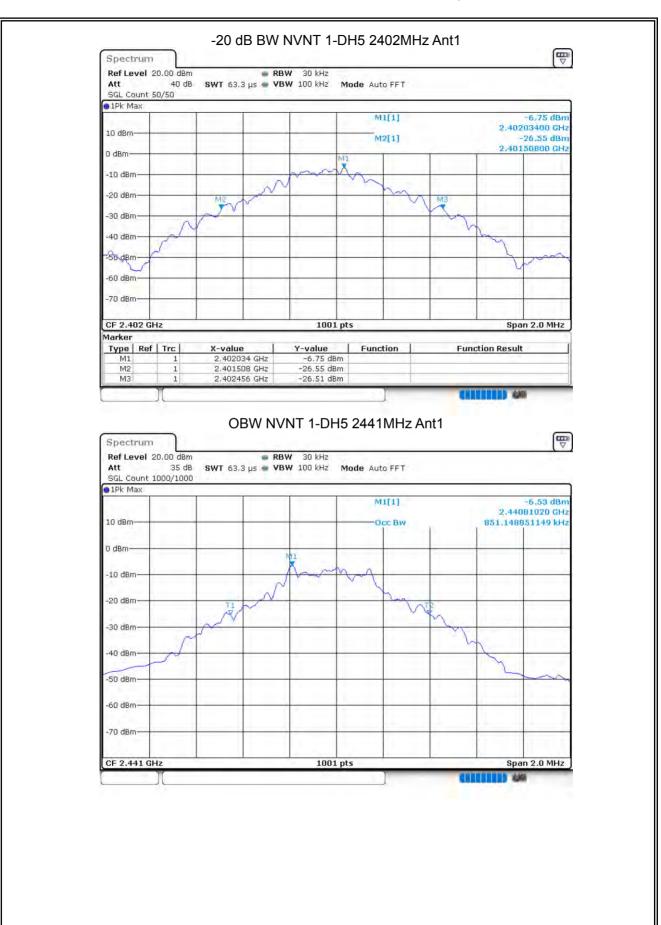
OBW NVNT 1-DH5 2402MHz Ant1



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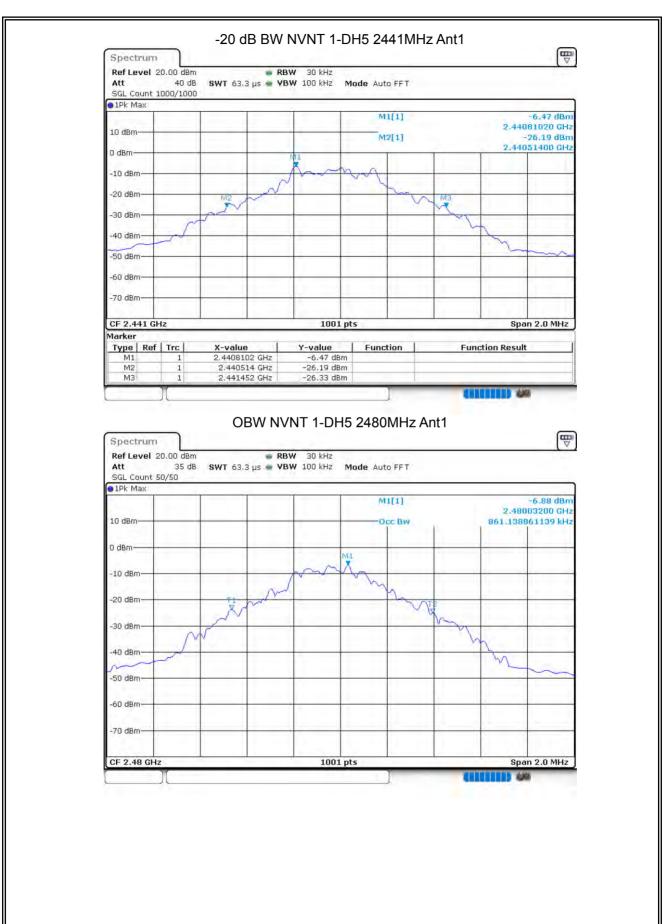




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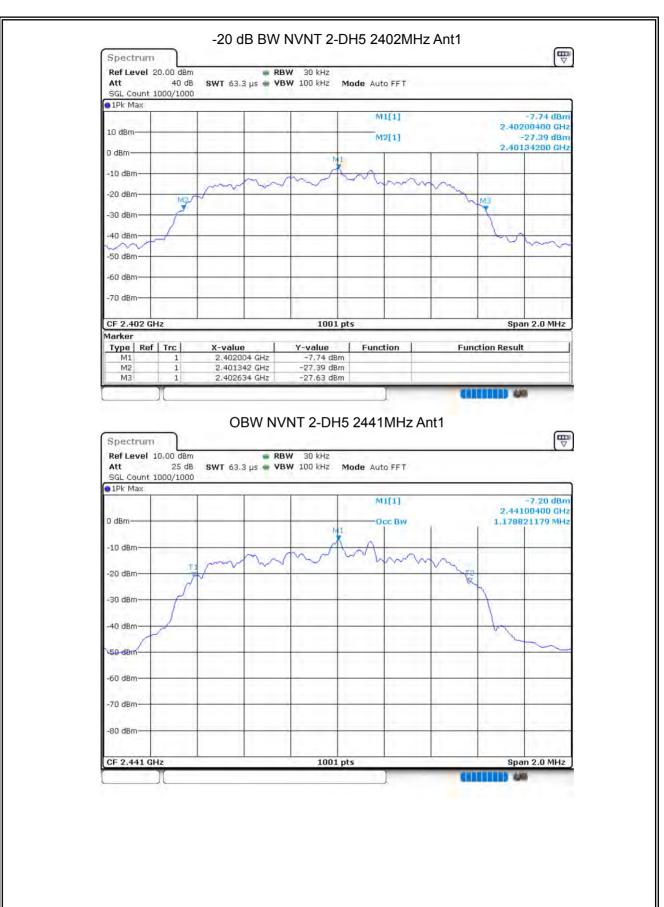




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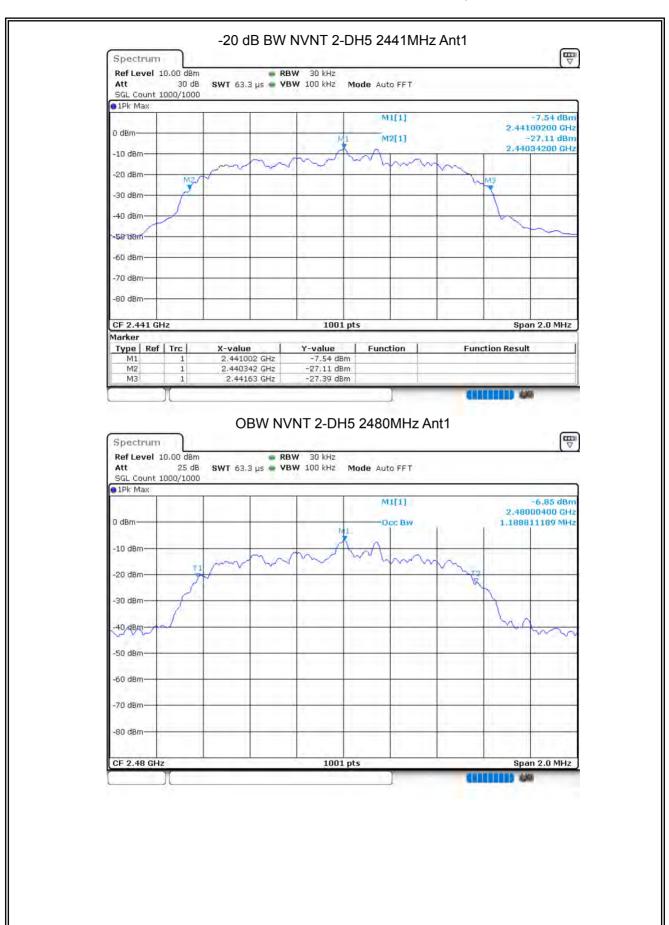




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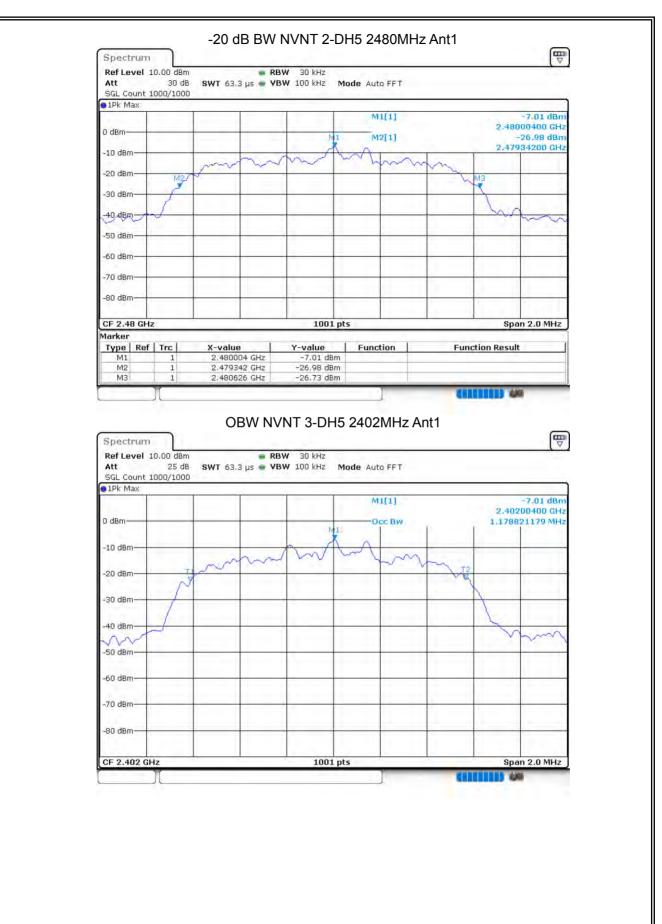




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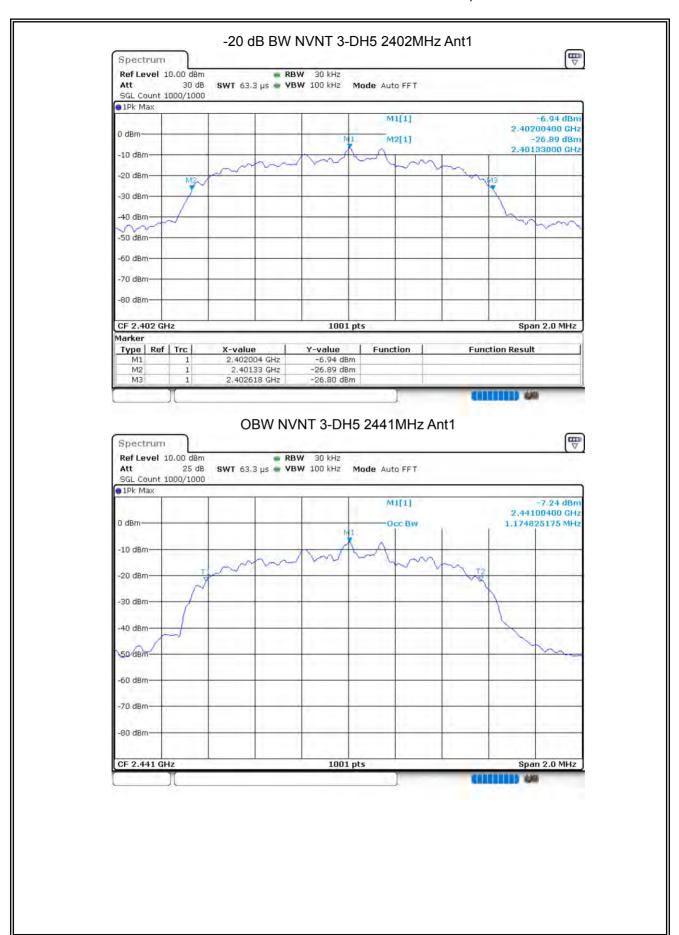




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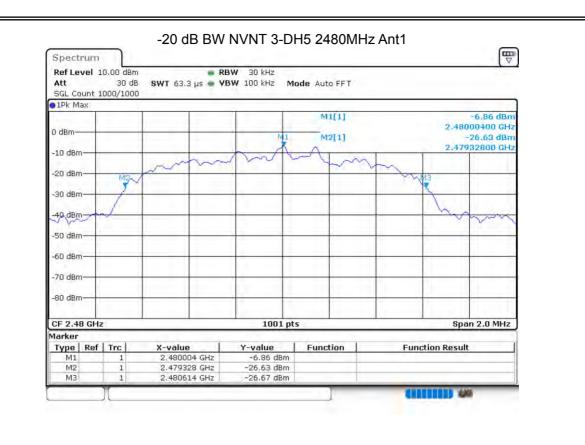




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8.4 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
Condition	Mode	(MHz)	(MHz)	(MHz)	(MHz)	verdict
NVNT	1-DH5	2401.813	2402.812	0.999	0.948	Pass
NVNT	1-DH5	2440.81	2441.809	0.999	0.938	Pass
NVNT	1-DH5	2478.81	2479.809	0.999	0.95	Pass
NVNT	2-DH5	2402.002	2403.001	0.999	0.861	Pass
NVNT	2-DH5	2441.002	2442.001	0.999	0.859	Pass
NVNT	2-DH5	2479.002	2480.004	1.002	0.856	Pass
NVNT	3-DH5	2402.005	2403.004	0.999	0.859	Pass
NVNT	3-DH5	2441.14	2442.142	1.002	0.857	Pass
NVNT	3-DH5	2479.002	2480.004	1.002	0.857	Pass

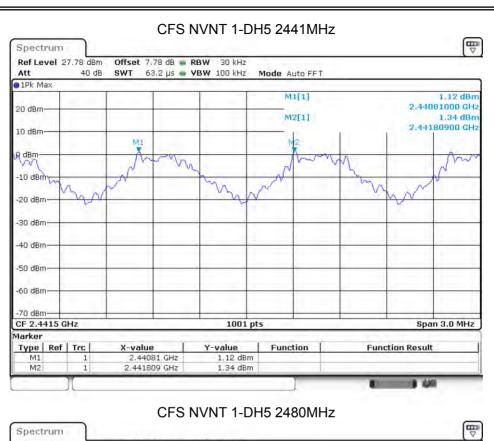
CFS NVNT 1-DH5 2402MHz

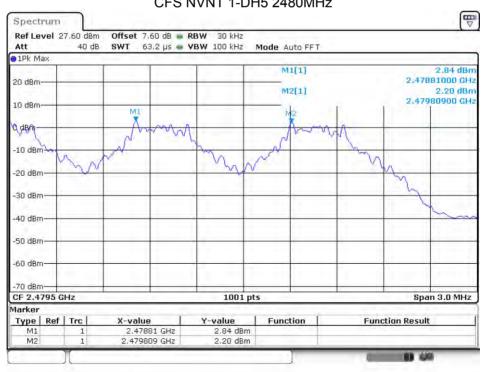


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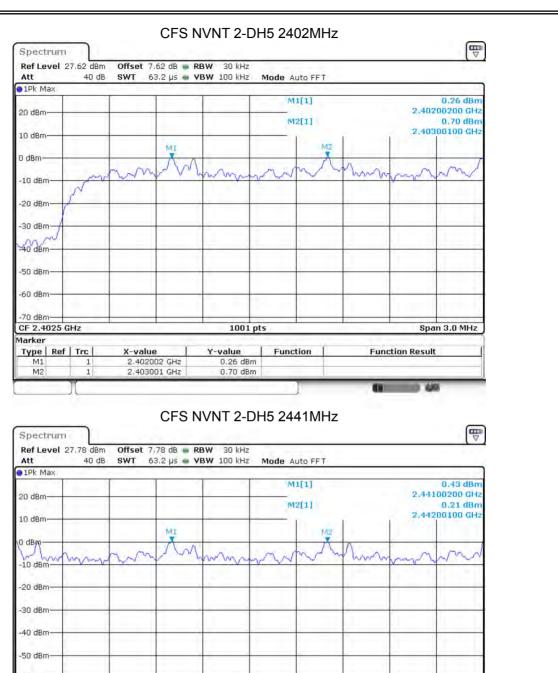




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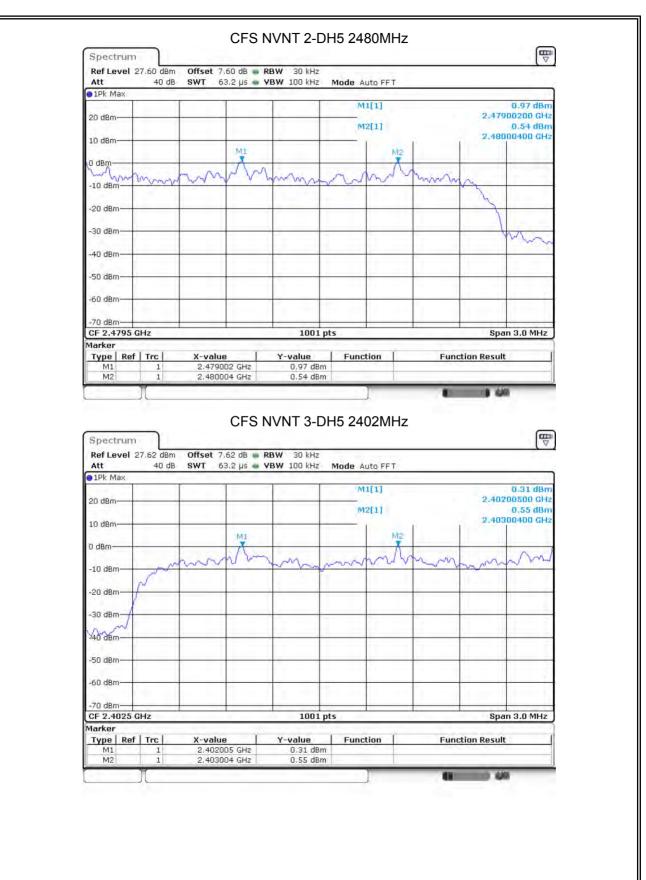


-50 dBn							
-60 dBn	1						
-70 dBn							
CF 2.4	415 GI	Hz		1001 pts	5		Span 3.0 MHz
Marker	1-						
Type	Ref	Trc	X-value	Y-value	Function	F	unction Result
M1		1	2.441002 GHz	0.43 dBm			active a confi
M2		1	2.442001 GHz	0.21 dBm		<u> </u>	
						-	1 44

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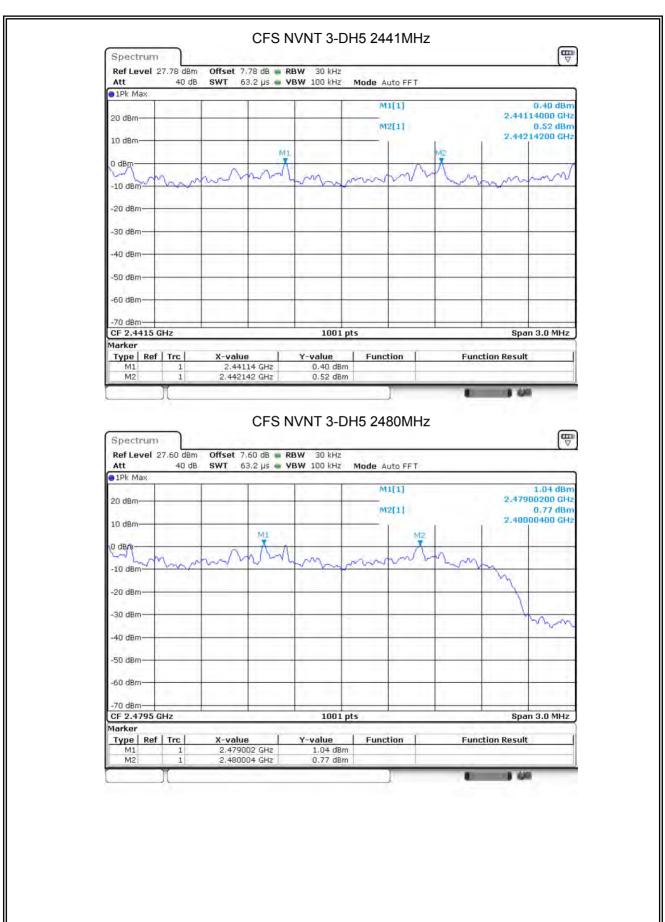




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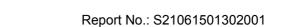
8.5 Number of Hopping Channel

Condition Mode Hopping Number Limit Verdict

NVNT 1-DH5 79 15 Pass

Hopping No. NVNT 1-DH5 2402MHz Spectrum Offset 7.62 dB - RBW 100 kHz Ref Level 27.62 dBm 1 ms - VBW 300 kHz Mode Auto Sweep Att 40 dB SWT SGL Count 7000/7000 1Pk Max M1[1] 3,48 dBn 2.4017535 GHz 20 dBm M2[1] 3.45 dBn 2.4802435 GHz 10 dBm 20 dBm 30 dBm 40 dBm -50 dBm -60 dBm -70 dBm Start 2.4 GHz 1001 pts Stop 2.4835 GHz Marker Type | Ref | Trc | Y-value Function **Function Result** X-value 2.4017535 GHz 3.48 dBm M2 2.4802435 GHz 3.45 dBm

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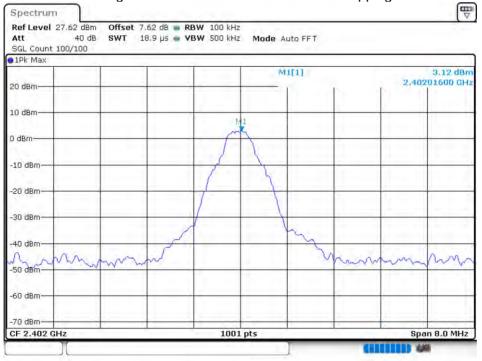




0	6	RAND	

Condition	Mode	Frequency (MHz)	Antenna Hopping Mode		Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	No-Hopping	-44.46	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-43.99	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-45.99	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-47.47	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-42.78	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-43.04	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-45.99	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-45.52	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-43.32	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-42.77	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-46.35	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-46.12	-20	Pass

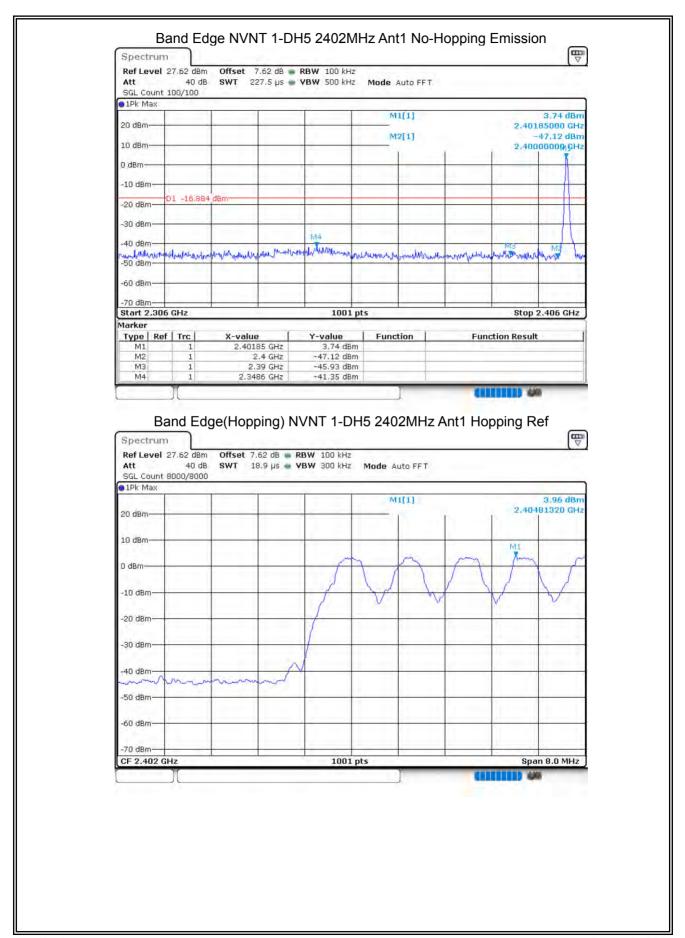




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Span 8.0 MHz

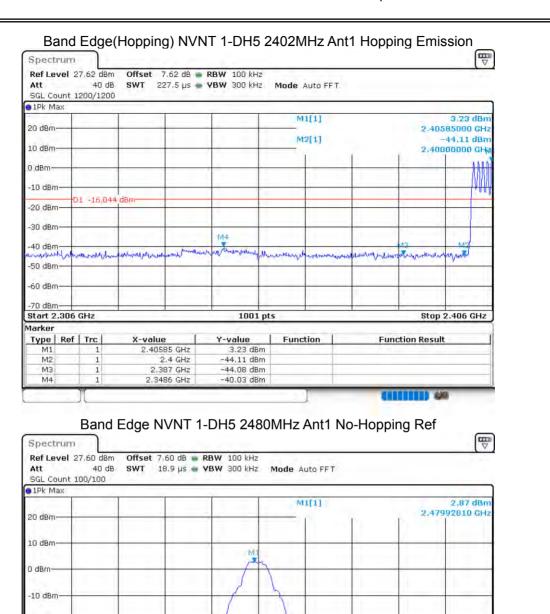


-20 dBm -30 dBm -40 dBm

-60 dBm -70 dBm

CF 2.48 GHz



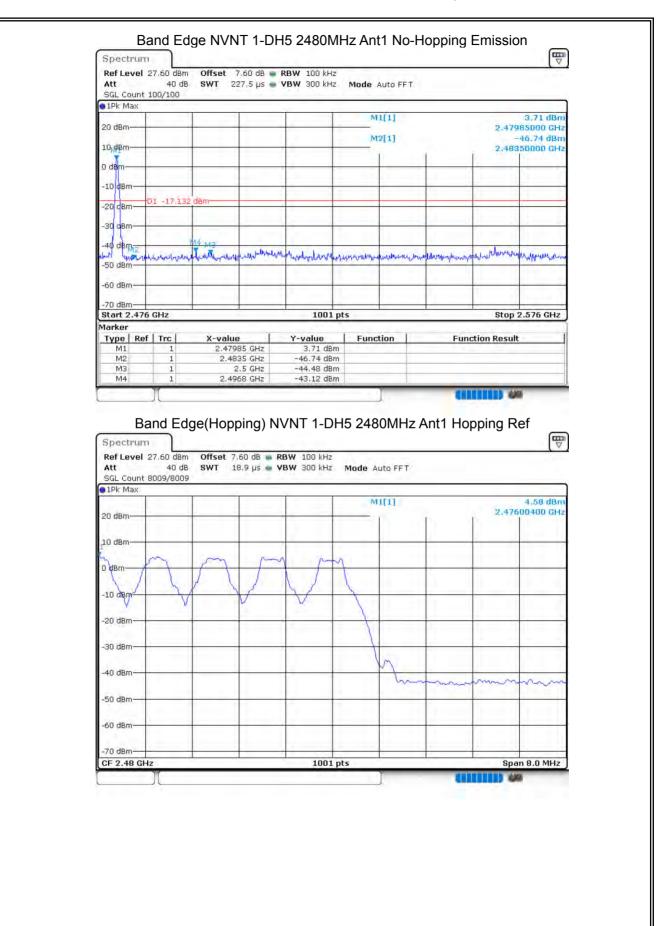


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1001 pts



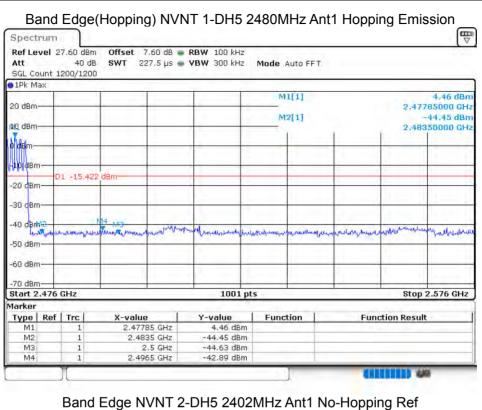


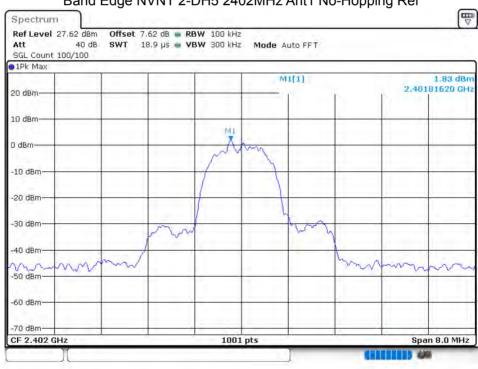


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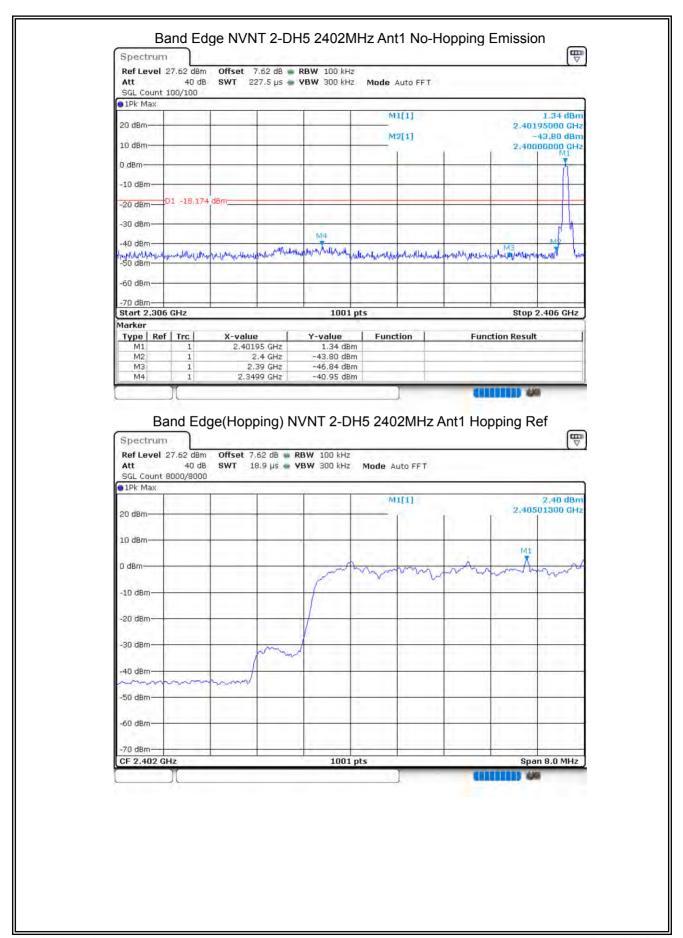




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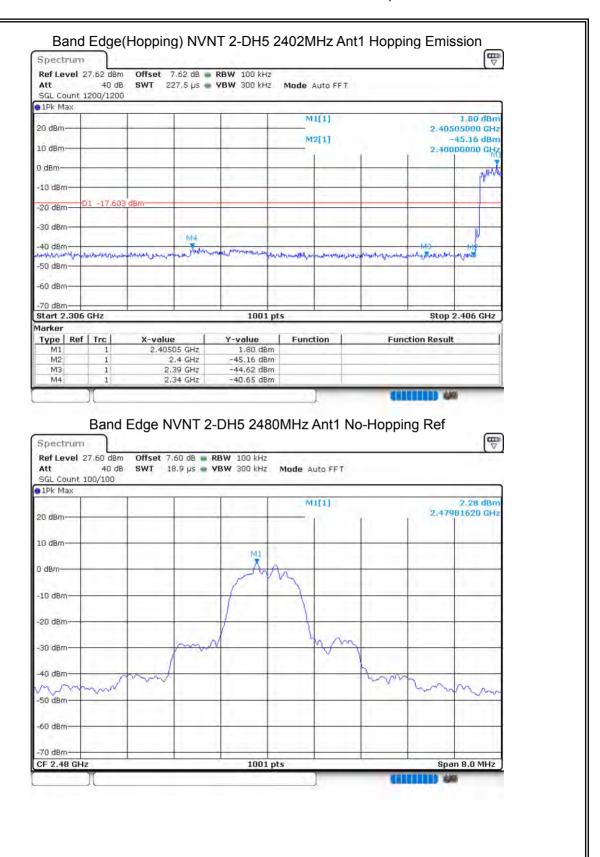




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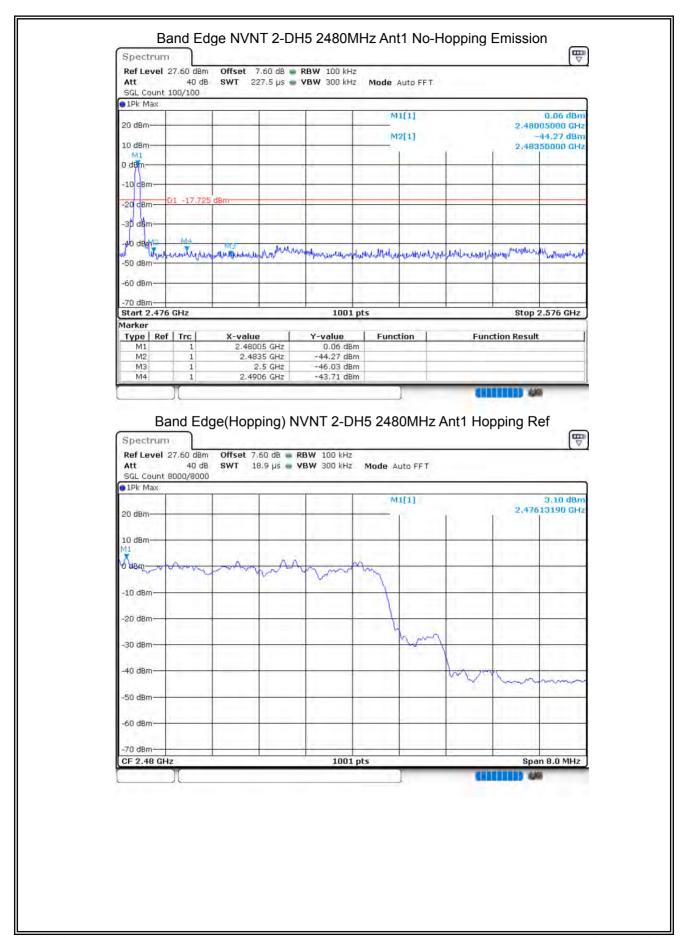




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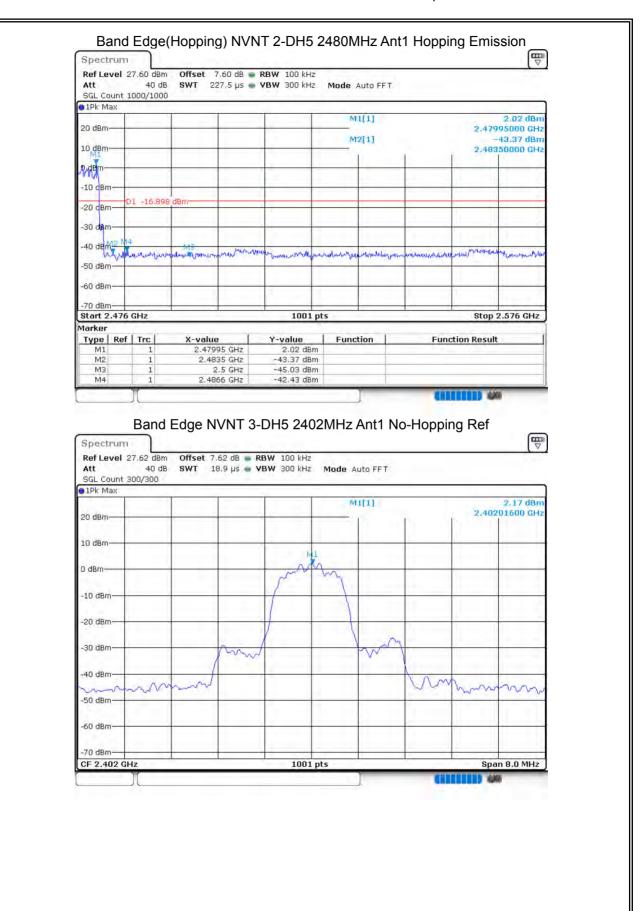




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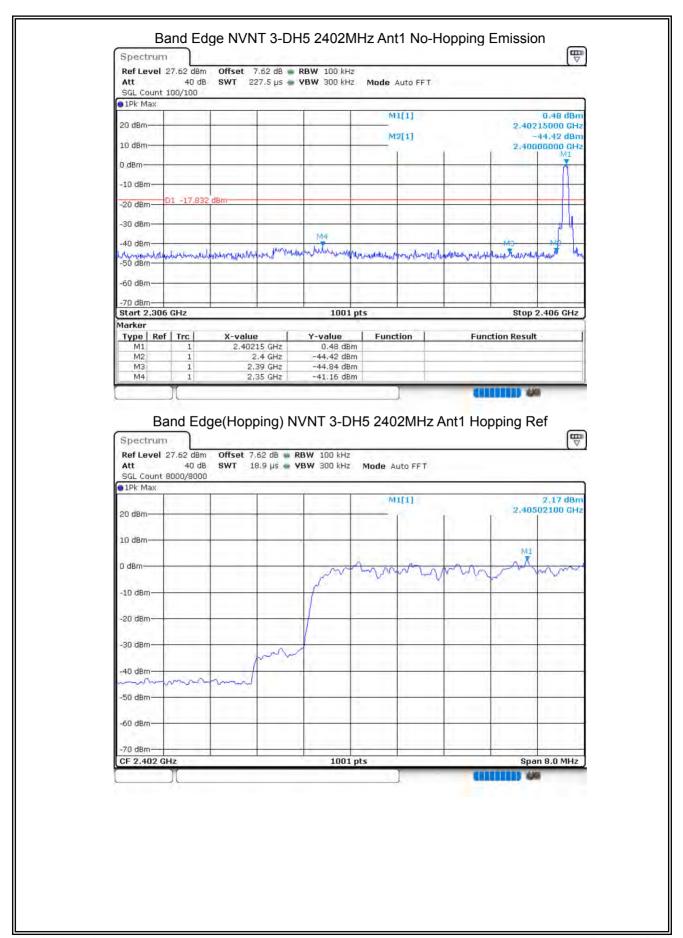




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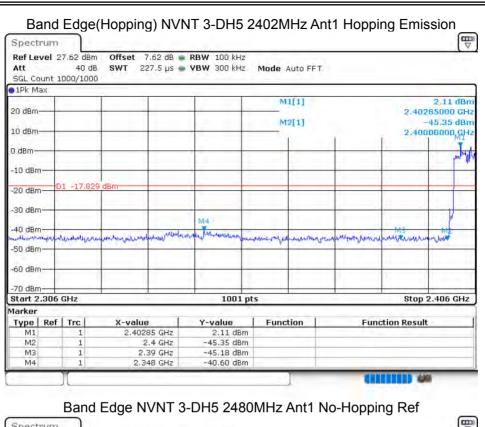




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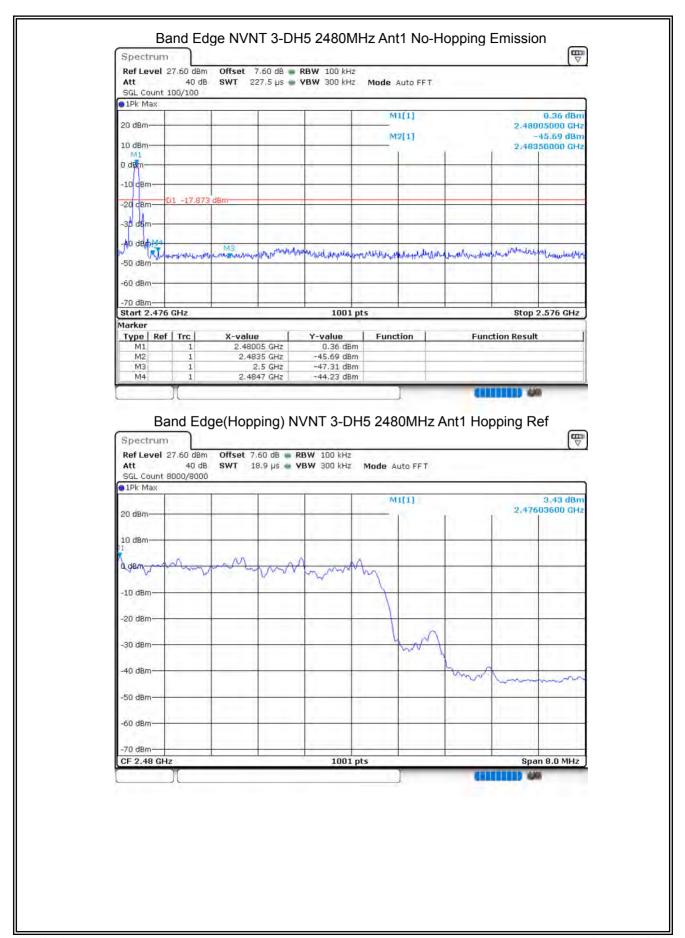




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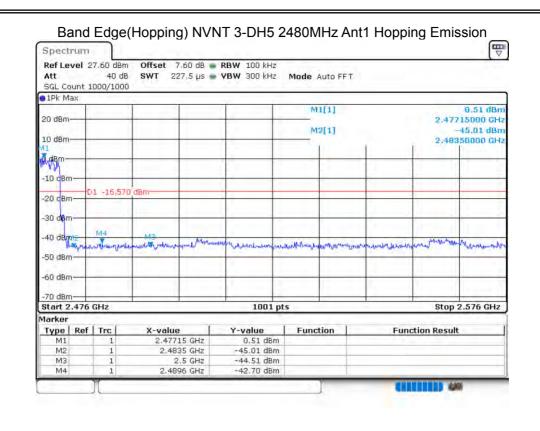




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8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	-57.9	-20	Pass
NVNT	1-DH5	2441	Ant 1	-57.74	-20	Pass
NVNT	1-DH5	2480	Ant 1	-59.26	-20	Pass
NVNT	2-DH5	2402	Ant 1	-55.38	-20	Pass
NVNT	2-DH5	2441	Ant 1	-57	-20	Pass
NVNT	2-DH5	2480	Ant 1	-55.94	-20	Pass
NVNT	3-DH5	2402	Ant 1	-54.78	-20	Pass
NVNT	3-DH5	2441	Ant 1	-57.44	-20	Pass
NVNT	3-DH5	2480	Ant 1	-56.61	-20	Pass

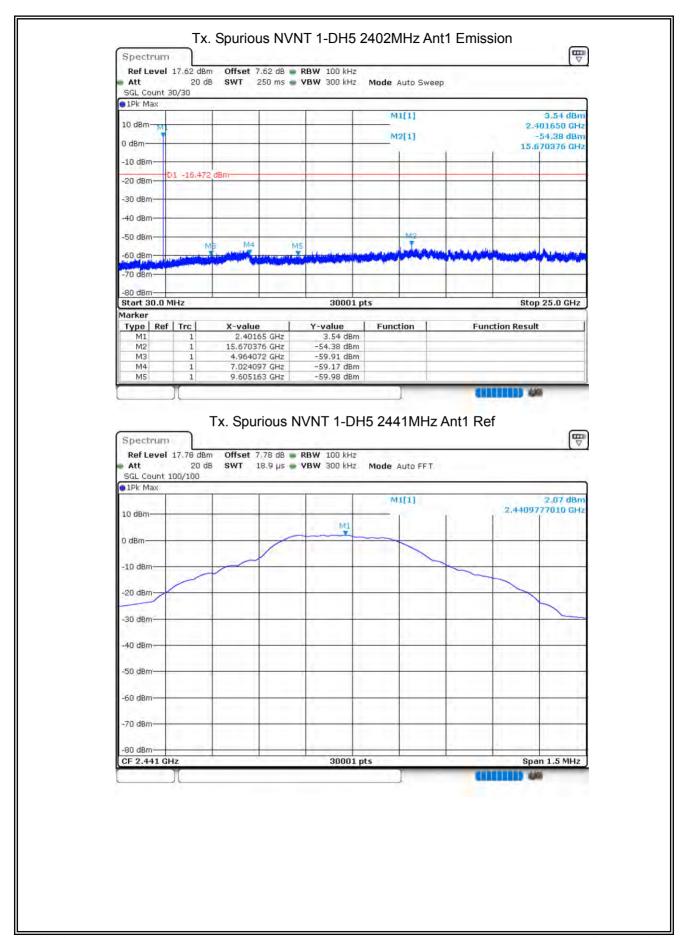




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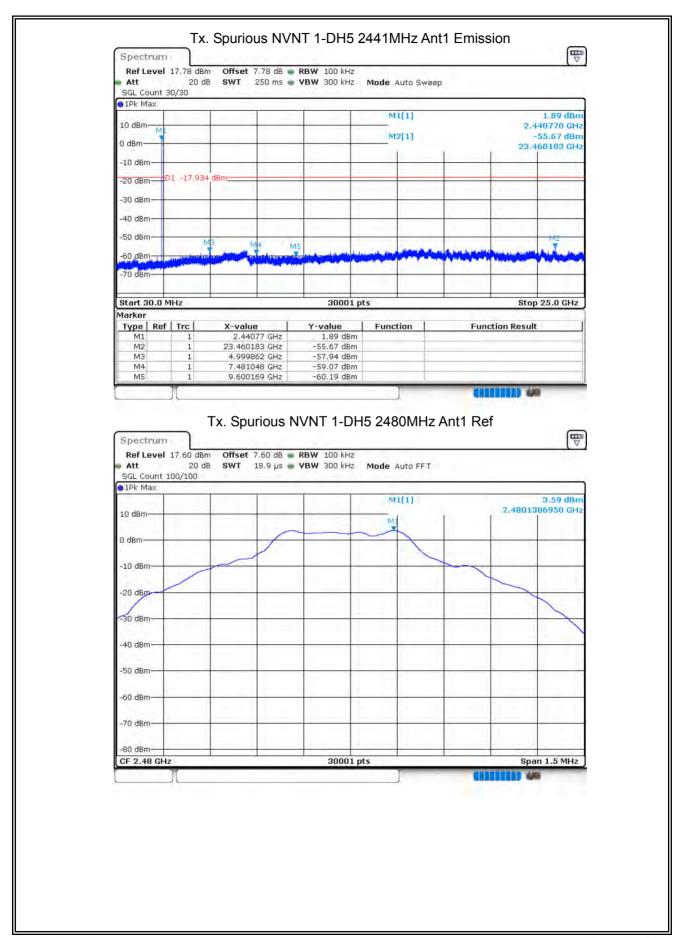




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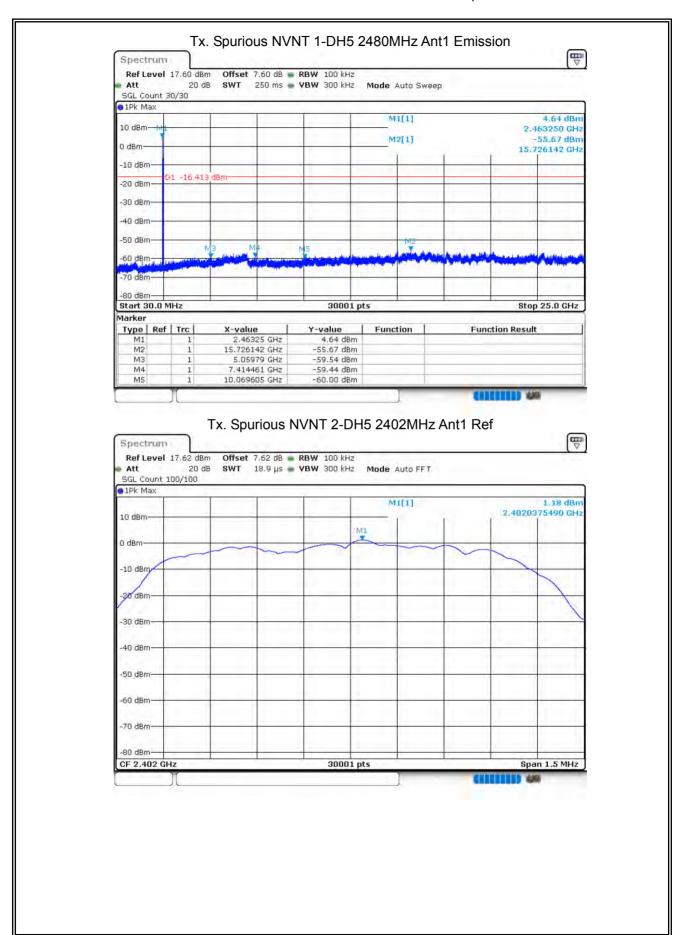




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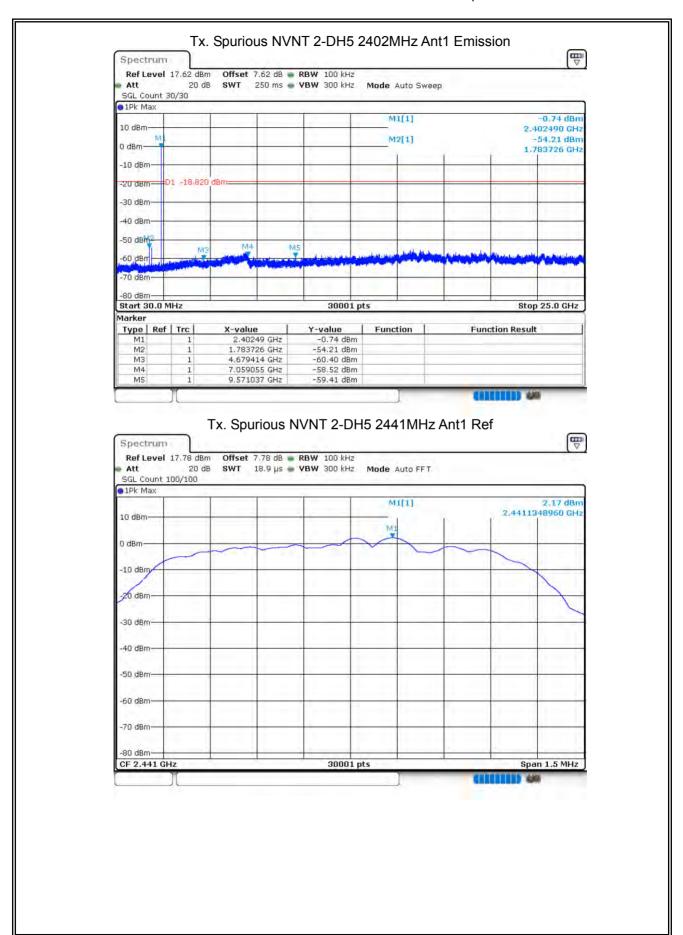




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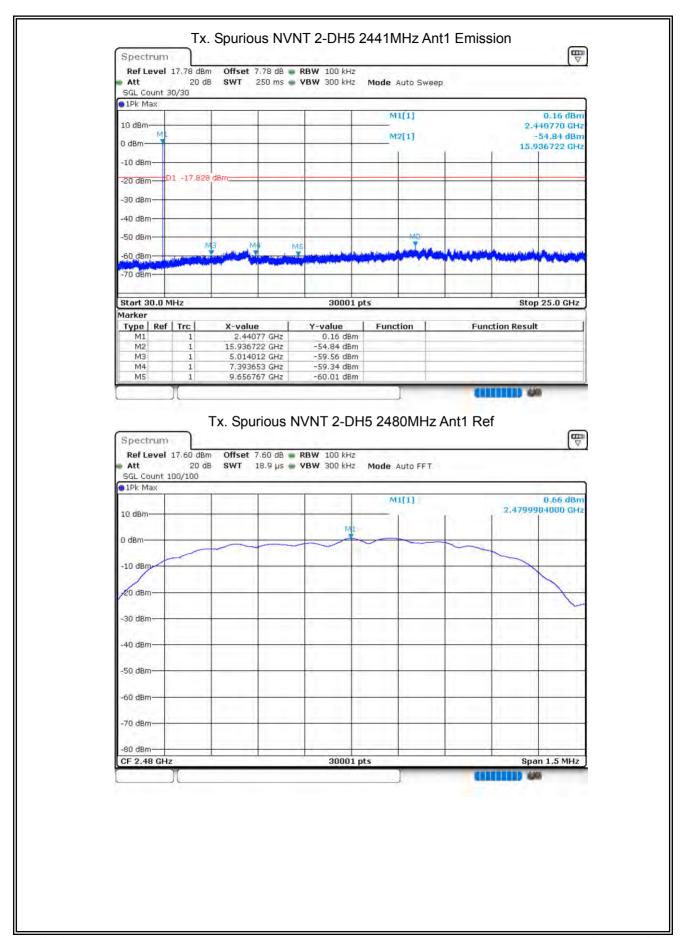




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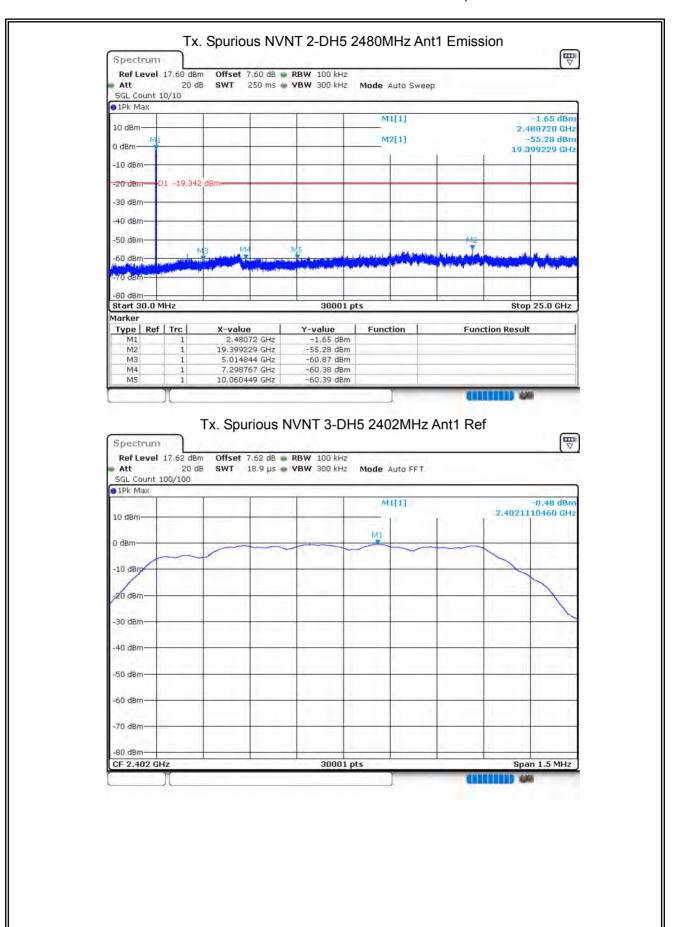




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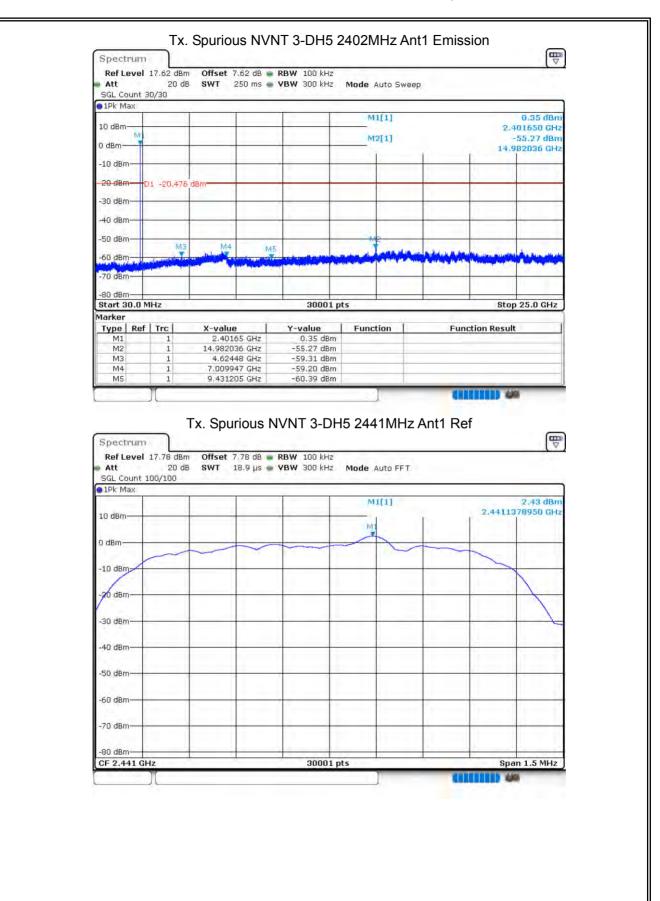




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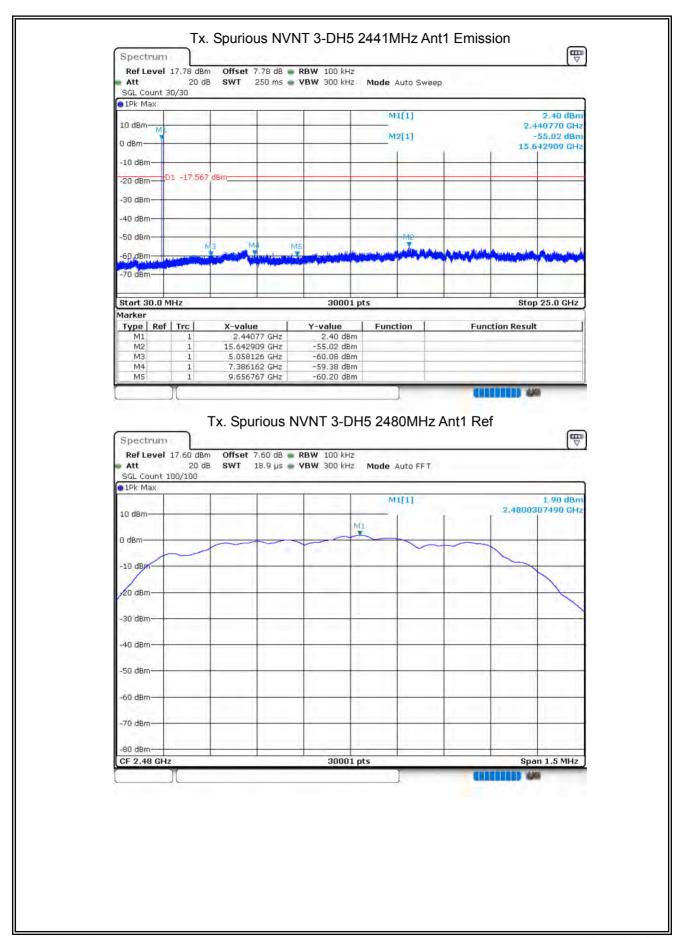




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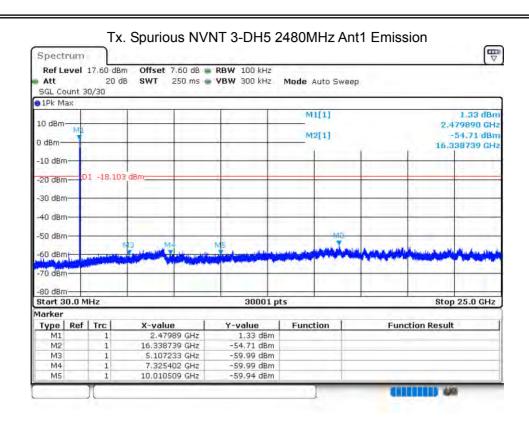




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END OF REPORT

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