

TEST REPORT

Report No.: BCTC2211166199-1E

Applicant: OKdo Technology Limited

Product Name: Radxa CM3

Model/Type Ref.: Radxa CM3

Tested Date: 2022-11-09 to 2022-12-14

Issued Date: 2022-12-15

Shenzhen BCTC Testing Co., Ltd



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IC: 29530-RADXACM3

Product Name: Radxa CM3

Trademark: N/A

Model/Type Ref.: Radxa CM3

Prepared For: OKdo Technology Limited

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Sample Received Date: 2022-11-09

Sample tested Date: 2022-11-09 to 2022-12-14

Issue Date: 2022-12-15

Report No.: BCTC2211166199-1E

RSS-247 Issue 2: February 2017

Test Standards: RSS-Gen Issue 5: Amendment 2 (February 2021)

558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

Test Results: PASS

Remark: This is Bluetooth Classic radio test report.

Tested by:

Lei Chen

Lei Chen/Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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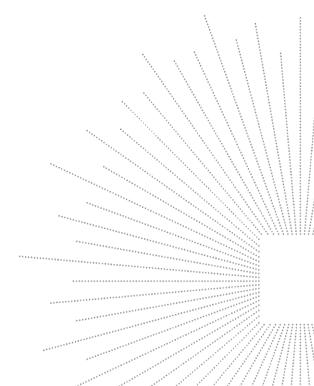
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(Note: N/A Means Not Applicable)



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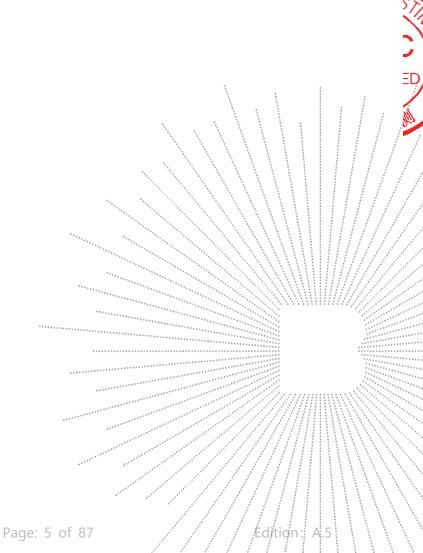
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2211166199-1E	2022-12-15	Original	Valid



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2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted emission AC power port	RSS-GEN 8.8	PASS
2	Conducted peak output power for FHSS	RSS-247 Clause 5.4(b)	PASS
3	99% Occupied Bandwidth	RSS-GEN 6.7	PASS
4	Hopping channel separation	RSS-247 Clause 5.1(b)	PASS
5	Number of hopping frequencies	RSS-247 Clause 5.1(d)	PASS
6	Dwell Time	RSS-247 Clause 5.1(d)	PASS
7	Spurious RF conducted emissions	RSS-247 Clause 5.5 RSS-GEN 8.10	PASS
8	Band edge	RSS-247 Clause 5.5	PASS
9	Spurious radiated emissions for transmitter	RSS-247 Clause 5.5 & RSS-GEN 6.13 RSS-GEN 8.9 RSS-GEN 8.10	PASS
10	Antenna Requirement	RSS-GEN 6.8	PASS



Edition: A.5



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59°C





4. Product Information And Test Setup

4.1 Product Information

Model/Type Ref.: Radxa CM3

Model Differences: N/A
Bluetooth Version: BT5.0
Hardware Version: V1.3
Software Version: 4.19

Operation Frequency: 2402-2480MHz

Type of Modulation: GFSK, $\pi/4$ -DQPSK, 8DPSK

Number Of Channel 79CH

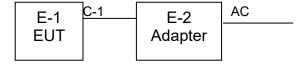
Antenna installation: FPC antenna

Antenna Gain: -7.23dBi Ratings: DC 12V

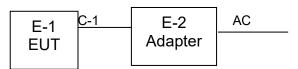
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model Series No. Note
E-1	Radxa CM3	N/A	Radxa CM3 N/A EUT
E-2	Adapter	N/A	BCTC001 N/A Auxiliary

Item	Shielded Type	Ferrite Core	Length Note
C-1	NO	NO	1M DC cable unshielded

Notes:

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^{1.} All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test

^{2.} Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4.4 Channel List

СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	79	1

4.5 Test Mode

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.

to imgulation mode (a) montained above trace of all all to be on the series of the ser								
Test Mode	Test mode	Low channel	Middle channel	High channel				
1	Transmitting(GFSK)	2402MHz	2441MHz	2480MHz				
2	Transmitting(π /4DQPSK)	2402MHz	2441MHz	2480MHz				
3	Transmitting(8DPSK)	2402MHz	2441MHz	2480MHz				
4	Transmitting (conducted emission & Radiated emission)							

Note

(1) The measurements are performed at the highest, middle, lowest available channels.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version		CMD
Frequency	2402 MHz	2440 MHz 2480 MHz
Parameters	DEF	DEF // DEF // \\

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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

Conducted Emissions Test								
Equipment	Next Cal.							
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023			
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023			
Software	Frad	EZ-EMC	EMC-CON 3A1	1	\			
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023			

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023	
Power Sensor (AV)	Keysight	E9300A		May 24, 2022	May 23, 2023	
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023	
Radio frequency control box	MAIWEI	MW100-RFCB		\	\	
Software	MAIWEI	MTS 8310	*********	**************************************		

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Radiated Emissions Test (966 Chamber02)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	SKET	966 Room	966	Nov. 02. 2021	Nov. 01.2024	
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023	
Receiver	R&S	ESRI7	100010	Nov. 08. 2022	Nov. 07.2023	
Amplifier	SKET	LNPA-30M01 G-30	SK202108200 4	Nov. 08. 2022	Nov. 07.2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	Mar. 06, 2022	Mar. 05, 2024	
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023	
Amplifier	SKET	LAPA_01G18 G-45dB	1	May 24, 2022	May 23, 2023	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023	
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023	
Horn Antenn(18GHz -40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023	
Software	Frad	EZ-EMC	FA-03A2 RE	1	, \	

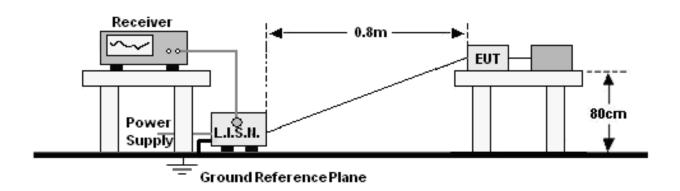
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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
FREQUENCY (WITZ)	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Notes

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	1,0 dB \ \ \ \ \
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

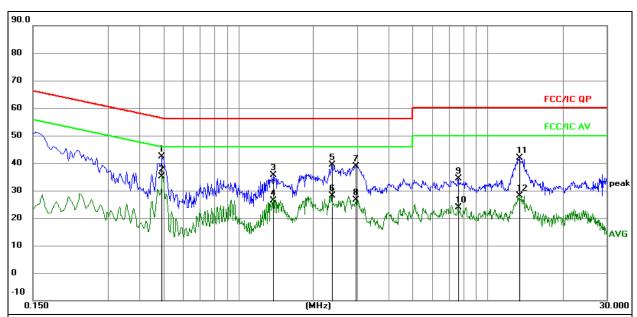
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

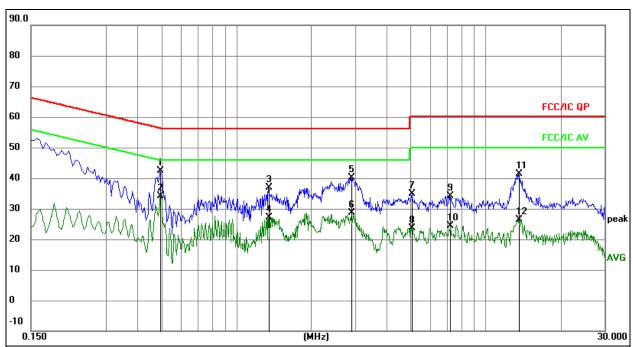
- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. Measurement=Reading Level+ Correct Factor
- 4. Over=Measurement-Limit

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.4941	22.62	19.72	42.34	56.10	-13.76	QP
2	*	0.4941	15.53	19.72	35.25	46.10	-10.85	AVG
3		1.3810	15.80	19.81	35.61	56.00	-20.39	QP
4		1.3810	6.68	19.81	26.49	46.00	-19.51	AVG
5		2.3710	19.35	19.92	39.27	56.00	-16.73	QP
6		2.3710	8.10	19.92	28.02	46.00	-17.98	AVG
7		2.9619	18.79	19.99	38.78	56.00	-17.22	QP
8		2.9619	6.75	19.99	26.74	46.00	-19.26	AVG
9		7.6060	14.24	20.20	34.44	60.00	-25.56	QP
10		7.6060	3.62	20.20	23.82	50.00	-26.18	AVG
11		13.4080	21.59	20.28	41.87	60.00	-18.13	QP
12		13.4080	7.85	20.28	28.13	50.00	-21.87	AVG

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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

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

- 4. Over=Measurement-Limit

No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.4965	22.73	19.72	42.45	56.06	-13.61	QP
2 *	0.4965	14.29	19.72	34.01	46.06	-12.05	AVG
3	1.3470	17.08	19.80	36.88	56.00	-19.12	QP
4	1.3470	7.22	19.80	27.02	46.00	-18.98	AVG
5	2.8950	20.20	19.98	40.18	56.00	-15.82	QP
6	2.8950	8.76	19.98	28.74	46.00	-17.26	AVG
7	5.0685	14.75	20.13	34.88	60.00	-25.12	QP
8	5.0685	3.38	20.13	23.51	50.00	-26.49	AVG
9	7.2015	13.97	20.19	34.16	60.00	-25.84	QP
10	7.2015	4.16	20.19	24.35	50.00	-25.65	AVG
11	13.5735	21.04	20.28	41.32	60.00	-18.68	QP
12	13.5735	6.06	20.28	26.34	50.00	-23.66	AVG

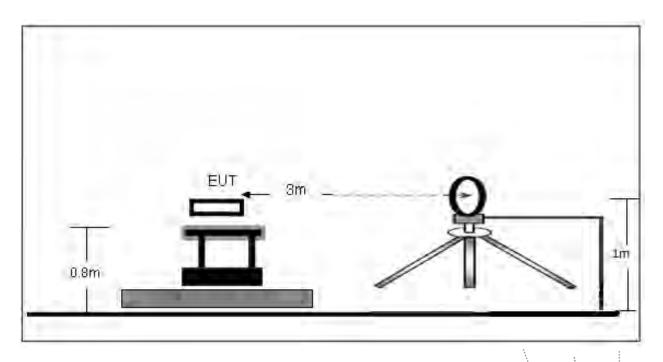
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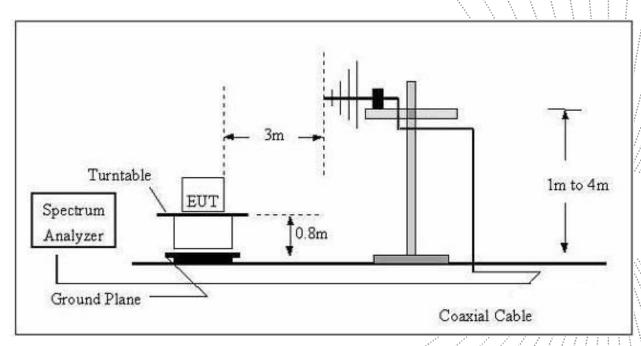
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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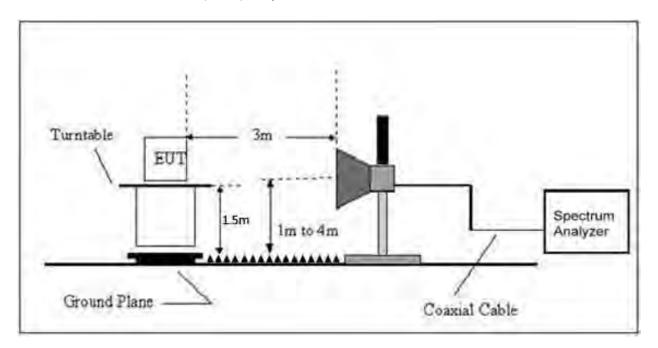
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(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on RSS-GEN 8.9, then the RSS-GEN 8.9 limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance
(MHz)	uV/m	(m)	uV/m dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz) 20log ^{(2400/F(kHz))} + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz) 20log ^{(24000/F(kHz))} + 40
1.705 ~ 30	30	30	100 * 30 20log ⁽³⁰⁾ + 40
30 ~ 88	100	3	100 20log ⁽¹⁰⁰⁾
88 ~ 216	150	3	150 20log ⁽¹⁵⁰⁾
216 ~ 960	200	3	200 20log ⁽²⁰⁰⁾
Above 960	500	3	500 20log(500)

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)		Limit (dBuV/m) (at 3M)
FREQUENCT (MITZ)	PEAK	AVERAGE
Above 1000	74	54////////

Notes

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

7.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel. 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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Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel.

Note:

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

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26℃	Relative Humidity:	24%
Pressure:	101KPa	Test Voltage	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	- ^^^\\\\\

Freq.	Reading	Limit	Margin State
(MHz)	(dBuV/m)	(dBuV/m)	(dB) P/F
			PASS
			PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

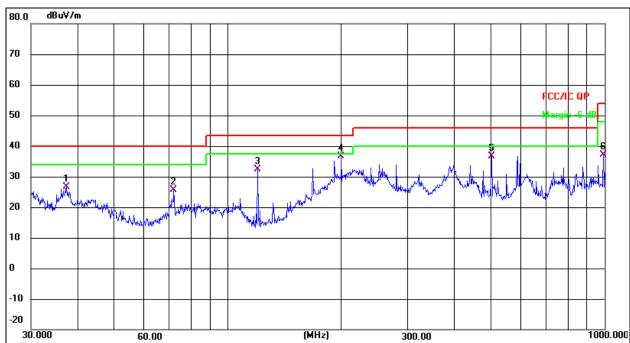
Limit line = specific limits(dBuv) + distance extrapolation factor.

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Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

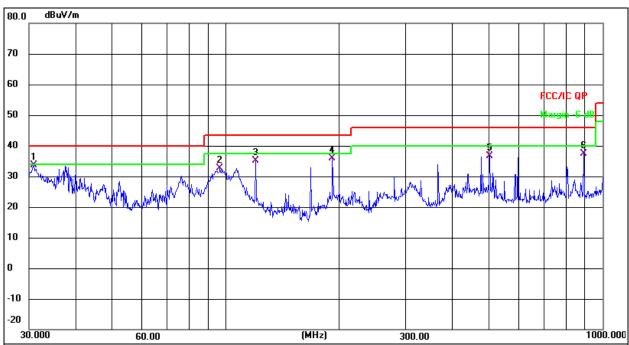
- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.2854	41.04	-14.32	26.72	40.00	-13.28	QP
2	71.8319	42.53	-16.92	25.61	40.00	-14.39	QP
3	119.8555	49.55	-17.28	32.27	43.50	-11.23	QP
4 *	199.9856	53.68	-17.17	36.51	43.50	-6.99	QP
5	501.1788	42.73	-6.15	36.58	46.00	-9.42	QP
6	993.0113	37.52	-0.29	37.23	54.00	-16.77	QP

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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.9619	49.04	-15.37	33.67	40.00	-6.33	QP
2	96.4362	51.19	-18.66	32.53	43.50	-10.97	QP
3	119.8556	52.41	-17.28	35.13	43.50	-8.37	QP
4	191.7450	52.76	-16.92	35.84	43.50	-7.66	QP
5	501.1788	42.73	-6.15	36.58	46.00	-9.42	QP
6	890.7277	39.77	-2.41	37.36	46.00	-8.64	QP

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Between 1GHz - 25GHz

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
	•		GFSK Low ch	annel			
V	4804.00	52.27	-0.43	51.84	74.00	-22.16	PK
V	4804.00	42.62	-0.43	42.19	54.00	-11.81	AV
V	7206.00	43.77	8.31	52.08	74.00	-21.92	PK
V	7206.00	33.49	8.31	41.80	54.00	-12.20	AV
Н	4804.00	48.51	-0.43	48.08	74.00	-25.92	PK
Н	4804.00	38.18	-0.43	37.75	54.00	-16.25	AV
Н	7206.00	41.33	8.31	49.64	74.00	-24.36	PK
Н	7206.00	34.00	8.31	42.31	54.00	-11.69	AV
		G	SFSK Middle o	hannel			
V	4882.00	48.28	-0.38	47.90	74.00	-26.10	PK
V	4882.00	39.99	-0.38	39.61	54.00	-14.39	AV
V	7323.00	40.58	8.83	49.41	74.00	-24.59	PK
V	7323.00	31.46	8.83	40.29	54.00	-13.71	AV
Н	4882.00	43.73	-0.38	43.35	74.00	-30.65	PK
Н	4882.00	33.27	-0.38	32.89	54.00	-21.11	AV
Н	7323.00	38.07	8.83	46.90	74.00	-27.10	PK
Н	7323.00	29.60	8.83	38.43	54.00	-15.57	AV
		1	GFSK High ch	nannel			
V	4960.00	51.19	-0.32	50.87	74.00	-23.13	PK
V	4960.00	41.26	-0.32	40.94	54.00	-13.06	AV
V	7440.00	43.76	9.35	53.11	74.00	-20.89	PK
V	7440.00	33.79	9.35	43.14	54.00	-10.86	AV
Н	4960.00	49.62	-0.32	49.30	74.00	-24.70	PK
Н	4960.00	39.90	-0.32	39.58	54.00	-14.42	AV
Н	7440.00	42.52	9.35	51.87	74.00	-22.13	PK
Н	7440.00	33.95	9.35	43.30	54.00	-10.70	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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^{4.} The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits		Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		π /	4DQPSK Low	channel			
V	4804.00	52.17	-0.43	51.74	74.00	-22.26	PK
V	4804.00	43.01	-0.43	42.58	54.00	-11.42	AV
V	7206.00	45.12	8.31	53.43	74.00	-20.57	PK
V	7206.00	35.49	8.31	43.80	54.00	-10.20	AV
Н	4804.00	50.52	-0.43	50.09	74.00	-23.91	PK
Н	4804.00	40.21	-0.43	39.78	54.00	-14.22	AV
Н	7206.00	44.07	8.31	52.38	74.00	-21.62	PK
Н	7206.00	35.47	8.31	43.78	54.00	-10.22	AV
		π /4	DQPSK Midd	le channel			
V	4882.00	49.81	-0.38	49.43	74.00	-24.57	PK
V	4882.00	43.27	-0.38	42.89	54.00	-11.11	AV
V	7323.00	40.77	8.83	49.60	74.00	-24.40	PK
V	7323.00	31.10	8.83	39.93	54.00	-14.07	AV
Н	4882.00	45.62	-0.38	45.24	74.00	-28.76	PK
Н	4882.00	36.04	-0.38	35.66	54.00	-18.34	AV
Н	7323.00	37.97	8.83	46.80	74.00	-27.20	PK
Н	7323.00	30.93	8.83	39.76	54.00	-14.24	AV
		π /-	4DQPSK High	channel		\\	:
V	4960.00	51.81	-0.32	51.49	74.00	-22.51	PK
V	4960.00	43.18	-0.32	42.86	54.00	-11,14	AV
V	7440.00	43.27	9.35	52.62	74.00	-21.38	PK
V	7440.00	33.54	9.35	42.89	54.00	-11.11	AV
Н	4960.00	49.49	-0.32	49.17	74.00	-24.83	PK
Н	4960.00	38.97	-0.32	38.65	54.00	-15.35	AV
Н	7440.00	41.76	9.35	51.11	74.00	-22.89	PK
Н	7440.00	34.35	9.35	43.70	54.00	-10.30	AV

Remark

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

- 2.If peak below the average limit, the average emission was no test....
- 3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
	•	3	BDPSK Low cl	nannel			
V	4804.00	52.18	-0.43	51.75	74.00	-22.25	PK
V	4804.00	42.86	-0.43	42.43	54.00	-11.57	AV
V	7206.00	42.51	8.31	50.82	74.00	-23.18	PK
V	7206.00	33.02	8.31	41.33	54.00	-12.67	AV
Н	4804.00	48.82	-0.43	48.39	74.00	-25.61	PK
Н	4804.00	39.16	-0.43	38.73	54.00	-15.27	AV
Н	7206.00	40.14	8.31	48.45	74.00	-25.55	PK
Н	7206.00	32.96	8.31	41.27	54.00	-12.73	AV
		18	OPSK Middle	channel			
V	4882.00	48.62	-0.38	48.24	74.00	-25.76	PK
V	4882.00	40.55	-0.38	40.17	54.00	-13.83	AV
V	7323.00	38.11	8.83	46.94	74.00	-27.06	PK
V	7323.00	29.56	8.83	38.39	54.00	-15.61	AV
Н	4882.00	44.99	-0.38	44.61	74.00	-29.39	PK
Н	4882.00	34.25	-0.38	33.87	54.00	-20.13	AV
Н	7323.00	36.85	8.83	45.68	74.00	-28.32	PK
Н	7323.00	29.52	8.83	38.35	54.00	-15.65	AV
		8	BDPSK High c	hannel		1	:
V	4960.00	51.12	-0.32	50.80	74.00	-23.20	PK
V	4960.00	42.99	-0.32	42.67	54.00	-11,33	AV
V	7440.00	44.50	9.35	53.85	74.00	-20.15	PK
V	7440.00	34.14	9.35	43.49	54.00	-10.51	AV
Н	4960.00	49.31	-0.32	48.99	74.00	-25.01	PK
Н	4960.00	38.96	-0.32	38.64	54.00	-15.36	AV
Н	7440.00	41.79	9.35	51.14	74.00	-22.86	PK
Н	7440.00	34.45	9.35	43.80	54.00	-10.20	AV

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

2. IT peak below the average limit, the average emission was no test.3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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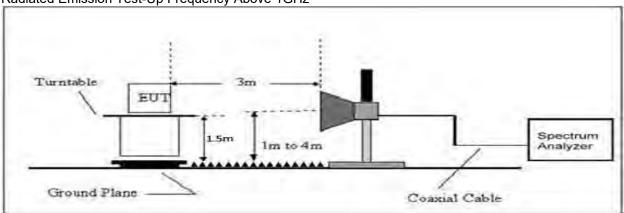
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8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

RSS-GEN, RSS-247 5.5

Table 7 - Restricted frequency bands*

MHz

MHz
0.090 - 0.110
0.495 - 0.505
2.1735 - 2.1905
3.020 - 3.026
4.125 - 4.128
4.17725 - 4.17775
4.20725 - 4.20775
5.677 - 5.683
6.215 - 6.218
6.26775 - 6.26825
6.31175 - 6.31225
8.291 - 8.294
8.362 - 8.366
8.37625 - 8.38675
8.41425 - 8.41475
12.29 - 12.293
12.51975 - 12.52025
12.57675 - 12.57725
13.36 - 13.41
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
108 - 138

149.9 - 150.05
156.52475 - 156.52525
156.7 - 156.9
162.0125 - 167.17
167.72 - 173.2
240 - 285
322 - 335.4
399.9 - 410
608 - 614
960 - 1427
1435 - 1626.5
1645.5 - 1646.5
1660 - 1710
1718.8 - 1722.2
2200 - 2300
2310 - 2390
2483.5 - 2500
2655 - 2900
3260 - 3267
3332 - 3339
3345.8 - 3358
3500 - 4400
4500 - 5150
5350 - 5460
7250 - 7750
8025 - 8500

GHz
9.0 - 9.2
9.3 - 9.5
10.6 - 12.7
13.25 - 13.4
14.47 - 14.5
15.35 - 16.2
17.7 - 21.4
22.01 - 23.12
23.6 - 24.0
31.2 - 31.8
36.43 - 36.5
Above 38.6

* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licenceexempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY	Limit (dBuV/m) (at 3M)		
(MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to RSS-GEN.
- (2)The tighter limit applies at the band edges.
- (3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel. Note:

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

8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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8.5 Test Result

	Polar (H/V)	Frequency (MHz)	Reading Level	Correct Factor	Measure- ment (dBuV/m)	Limi (dBu\		Result
	(m/v)	(IVITIZ)	(dBuV/m)	(dB)	PK	PK	AV	
	Low Channel 2402MHz							
	Н	2390.00	54.94	-6.70	48.24	74.00	54.00	PASS
	Н	2400.00	59.37	-6.71	52.66	74.00	54.00	PASS
	V	2390.00	54.00	-6.70	47.30	74.00	54.00	PASS
GFSK	V	2400.00	58.63	-6.71	51.92	74.00	54.00	PASS
Gran	High Channel 2480MHz							
	Н	2483.50	57.41	-6.79	50.62	74.00	54.00	PASS
	Н	2500.00	53.27	-6.81	46.46	74.00	54.00	PASS
	V	2483.50	57.60	-6.79	50.81	74.00	54.00	PASS
	V	2500.00	53.89	-6.81	47.08	74.00	54.00	PASS
	Low Channel 2402MHz							
	Н	2390.00	54.08	-6.70	47.38	74.00	54.00	PASS
	Н	2400.00	57.25	-6.71	50.54	74.00	54.00	PASS
	V	2390.00	53.87	-6.70	47.17	74.00	54.00	PASS
π/4DQPSK	V	2400.00	58.40	-6.71	51.69	74.00	54.00	PASS
J. /4DQF3K	High Channel 2480MHz							
	Н	2483.50	56.85	-6.79	50.06	2483.50	56.60	-6.79
	Н	2500.00	51.74	-6.81	44.93	2500.00	51.76	-6.81
	V	2483.50	56.52	-6.79	49.73	2483.50	56.25	-6.79
	V	2500.00	53.24	-6.81	46.43	2500.00	52.41	-6.81
	Low Channel 2402MHz							
8DPSK	Н	2390.00	53.93	-6.70	47.23	74.00	54.00	PASS
	Н	2400.00	57.66	-6.71	50.95	74.00	54.00	PASS
	V	2390.00	54.79	-6.70	48.09	74.00	54.00	PASS
	V	2400.00	58.28	-6.71	51.57	74.00	54.00	PASS
	High Channel 2480MHz							
	Н	2483.50	56.23	-6.79	49.44	74.00	54.00	PASS
	Н	2500.00	52.52	-6.81	45.71	74.00	54.00	PASS
	V	2483.50	57.50	-6.79	50.71	74.00	54.00	PASS
	V	2500.00	54.73	-6.81	47:92	74.00	54.00	PASS

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

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^{1.} Emission Level = Meter Reading + Factor,

^{2.} If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

³ In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

^{4.} The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



9. Conducted Emission

9.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

9.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section RSS-247 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

9.3 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2. Set the spectrum analyzer:

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Below 30MHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto Detector function = peak, Trace = max hold Above 30MHz:

RBW = 100KHz, VBW = 300KHz, Sweep = auto Detector function = peak, Trace = max hold

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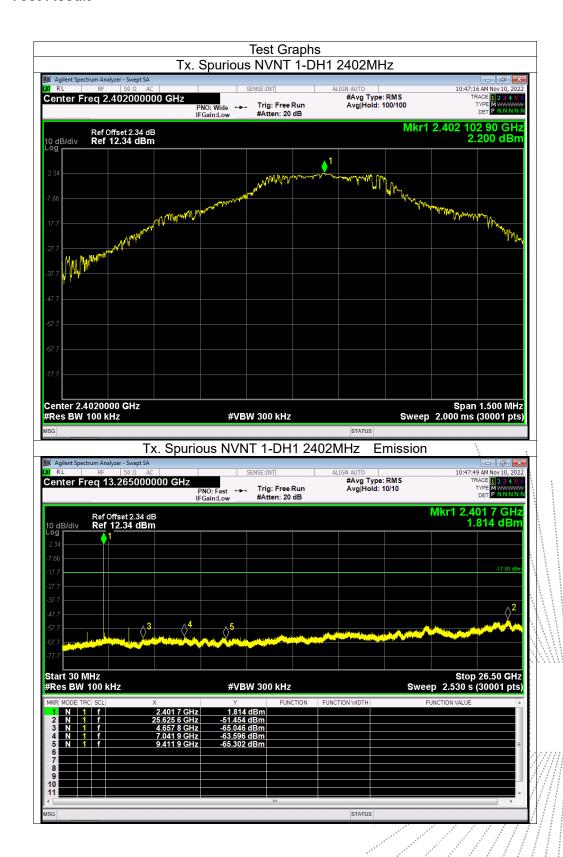
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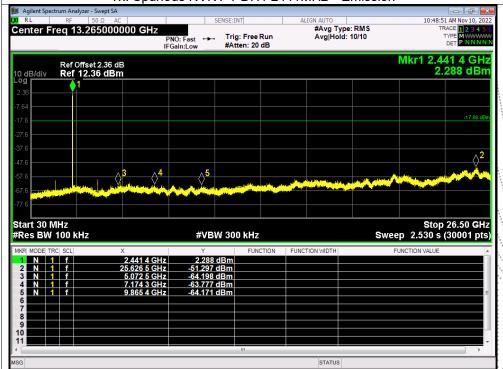
9.4 Test Result



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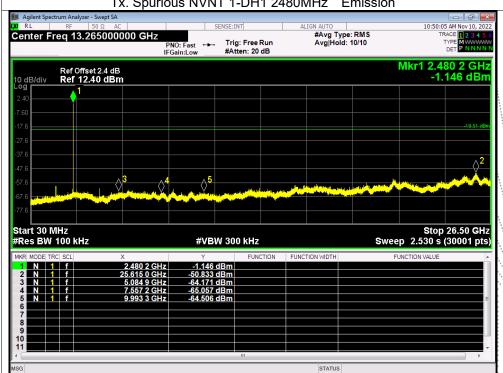




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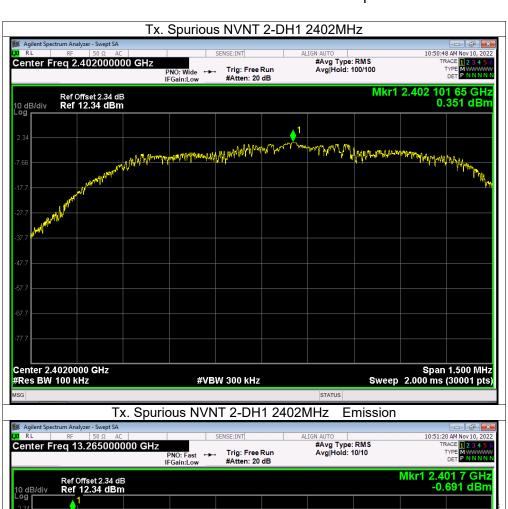


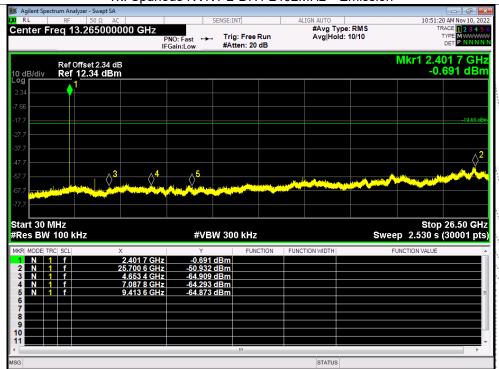




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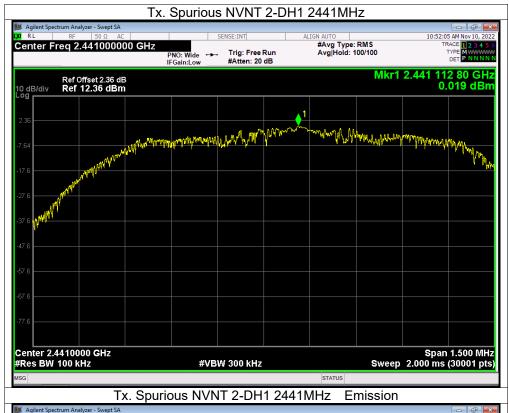


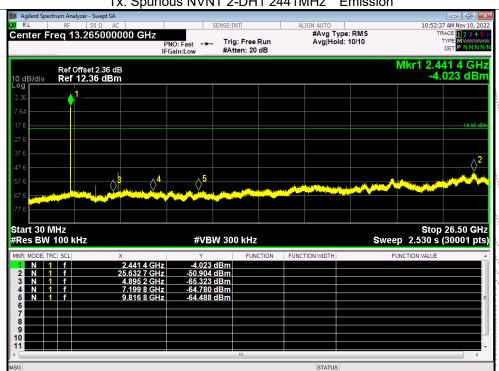




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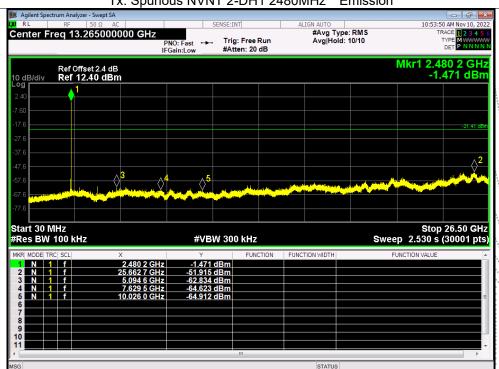


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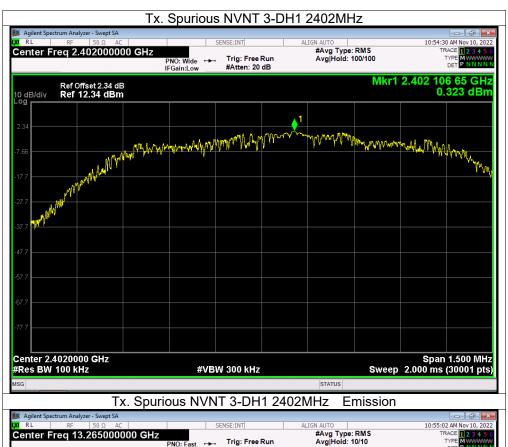
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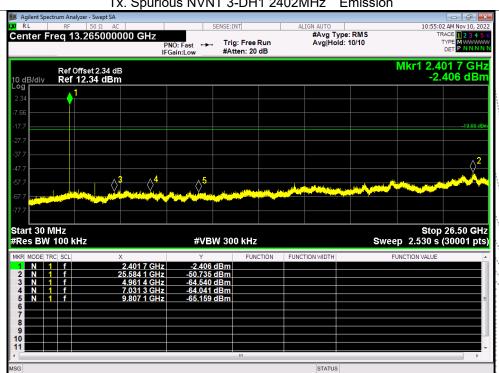




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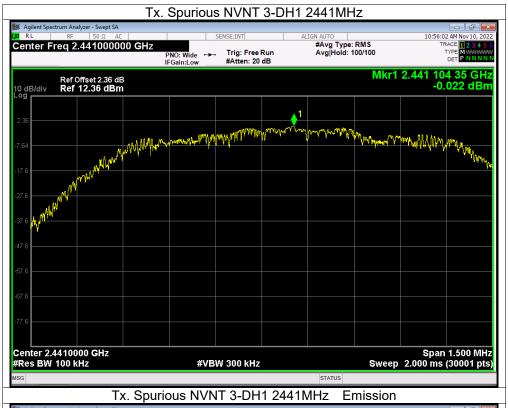


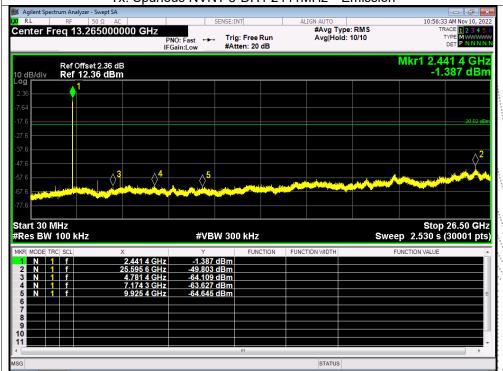




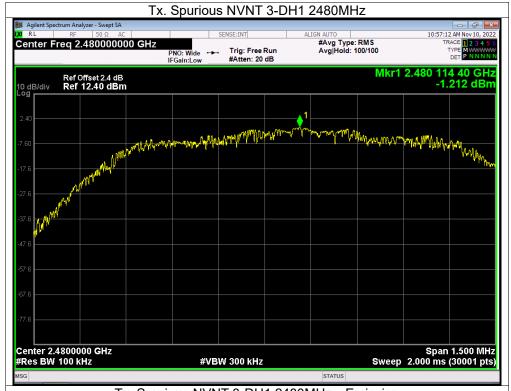
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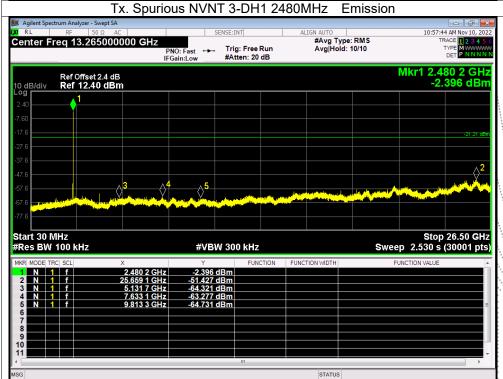




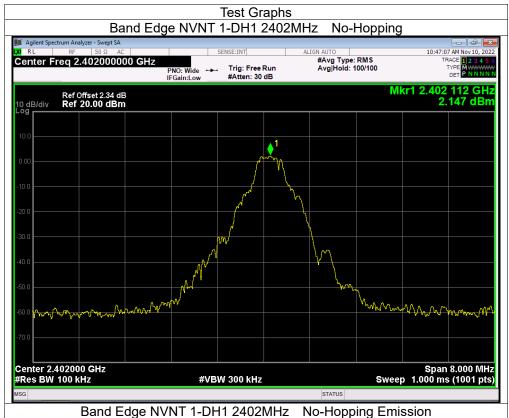


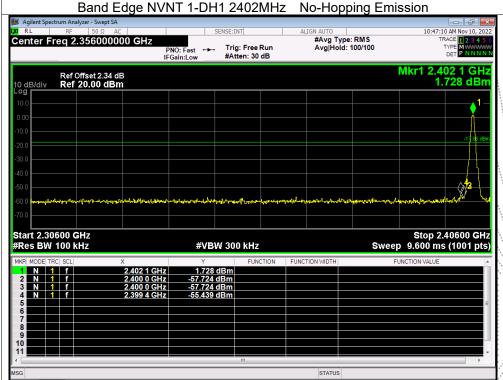
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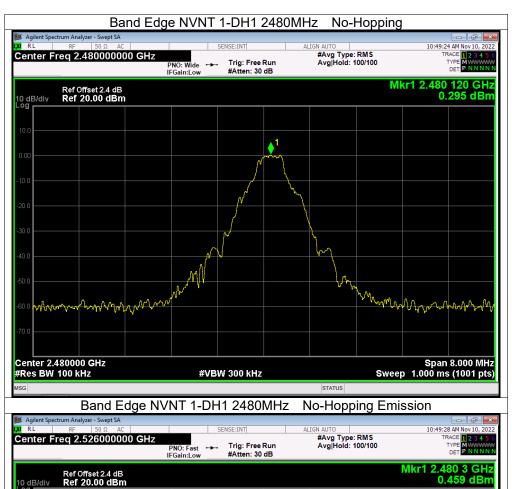
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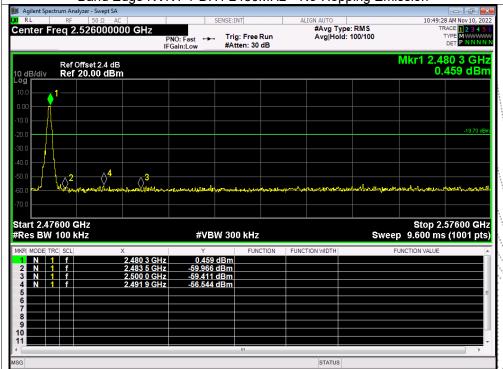




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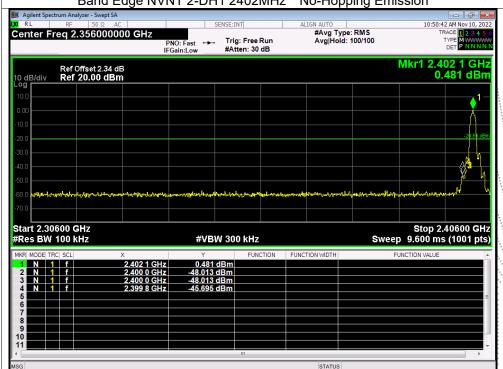


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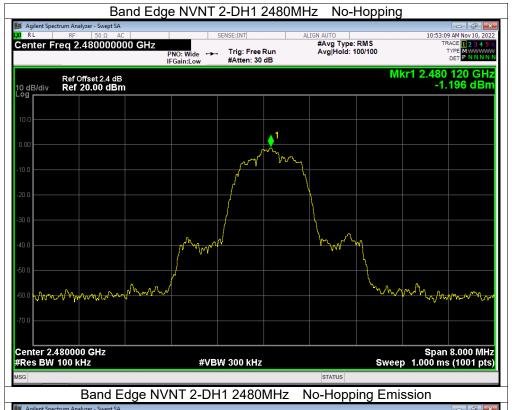
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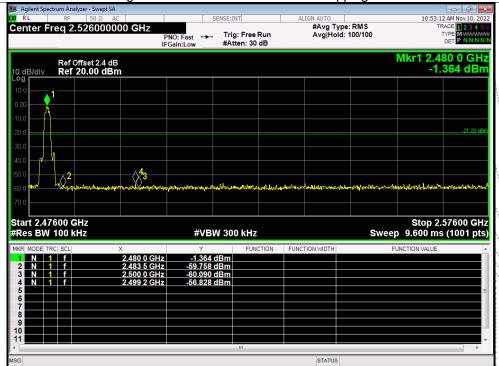




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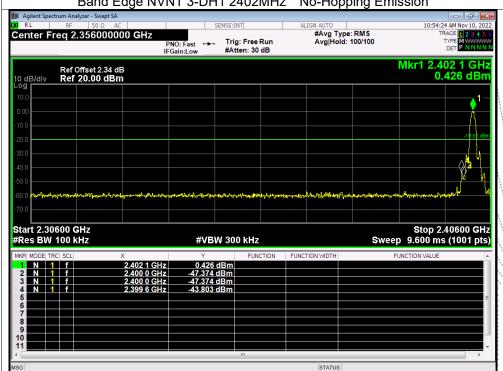




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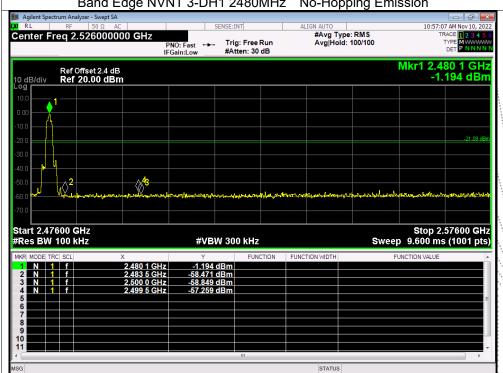




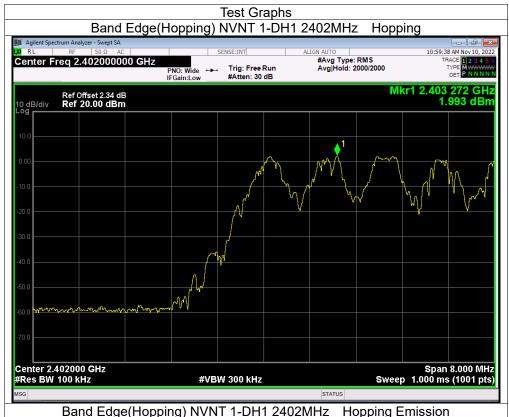
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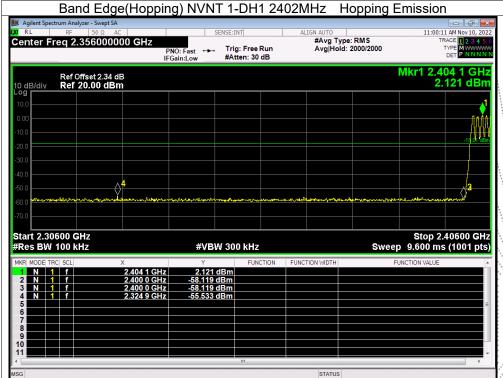






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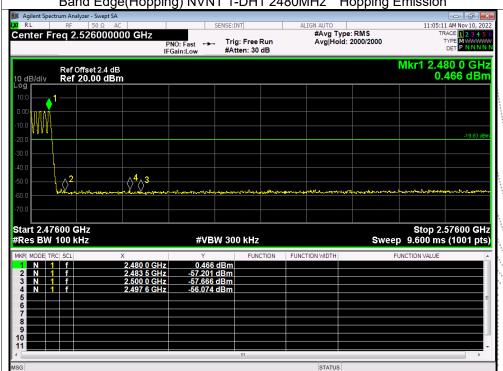




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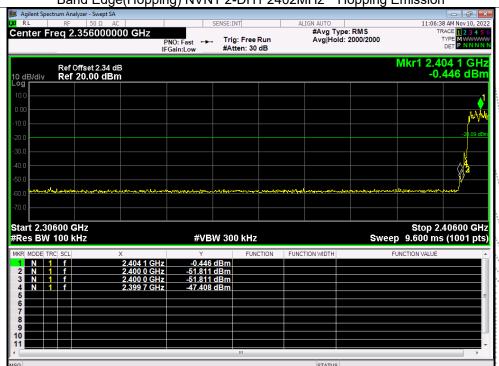
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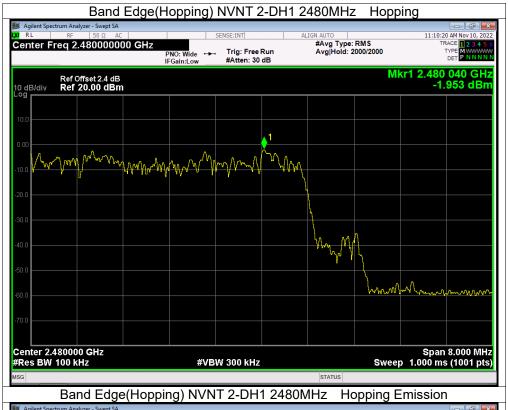
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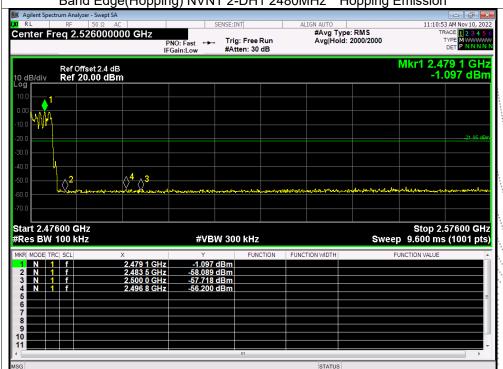
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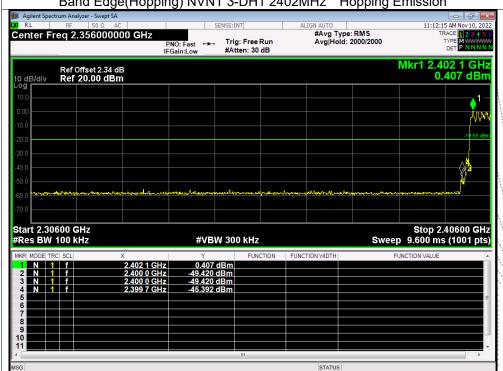






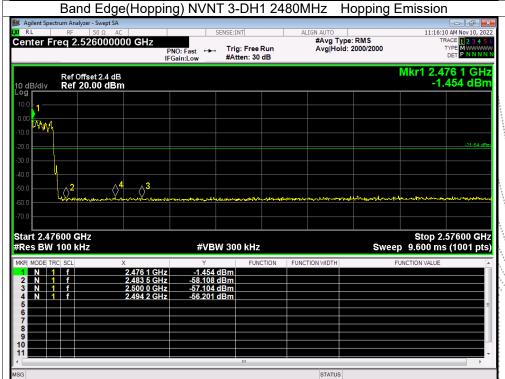






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10. 20 DB Bandwidth

10.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

10.2 Limit

N/A

10.3 Test Procedure

- 1. Set RBW = 30kHz.
- Set the video bandwidth (VBW) ≥ 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

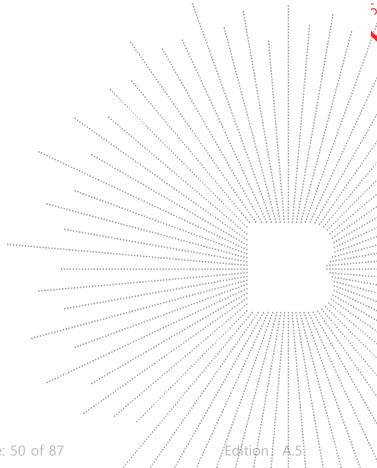
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10.4 Test Result

Temperature :	26 ℃	Relative Humidity :	54%
Test Voltage :	DC 12V	Remark	N/A

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	99% OBW (MHz)	Verdict
NVNT	1-DH1	2402	1.029	0.933	Pass
NVNT	1-DH1	2441	1.048	0.944	Pass
NVNT	1-DH1	2480	1.042	0.946	Pass
NVNT	2-DH1	2402	1.359	1.208	Pass
NVNT	2-DH1	2441	1.353	1.207	Pass
NVNT	2-DH1	2480	1.335	1.216	Pass
NVNT	3-DH1	2402	1.329	1.194	Pass
NVNT	3-DH1	2441	1.307	1.188	Pass
NVNT	3-DH1	2480	1.324	1.188	Pass



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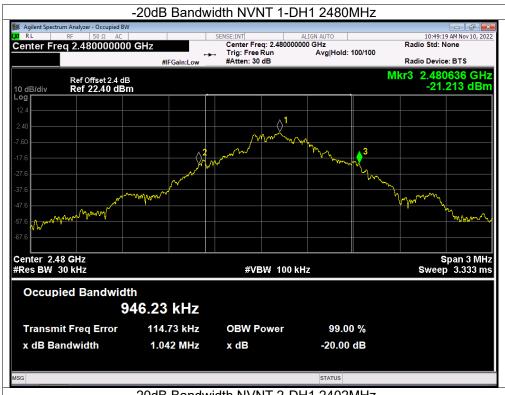
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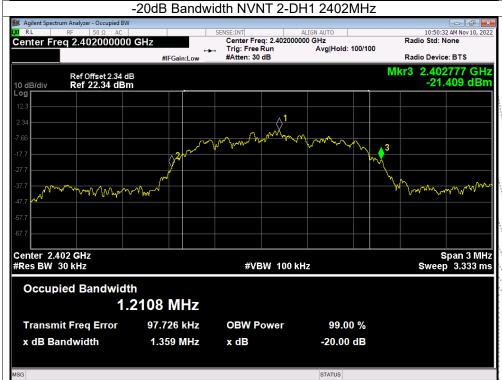
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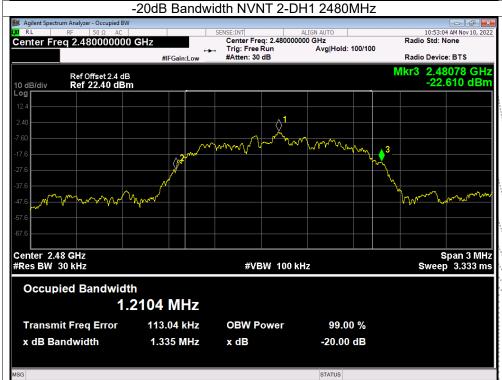


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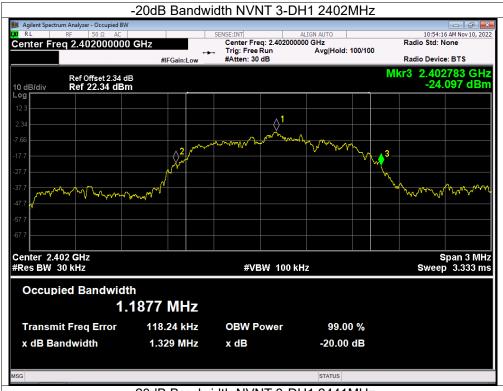
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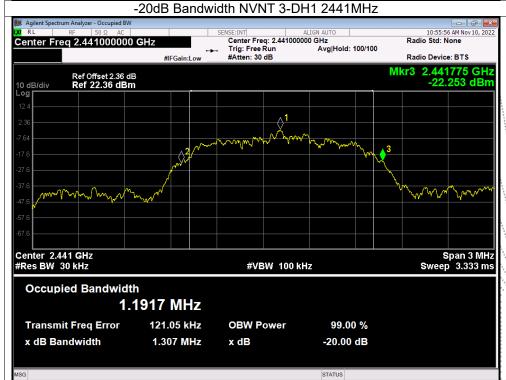






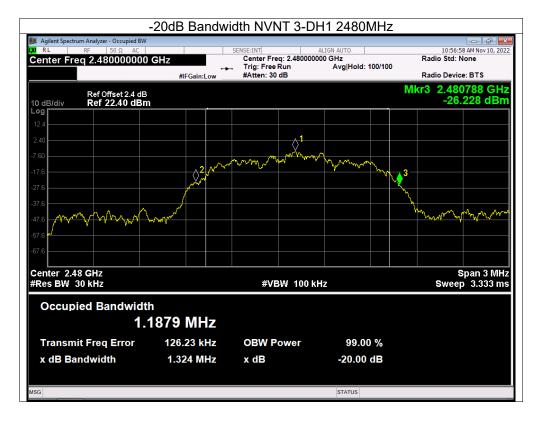
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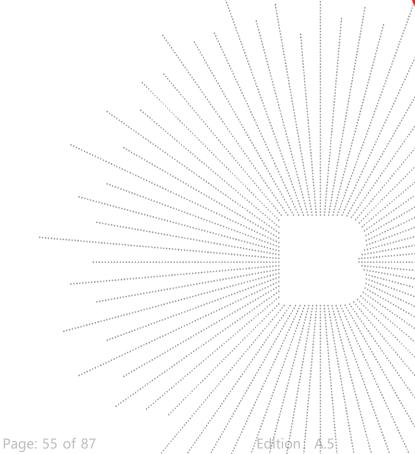




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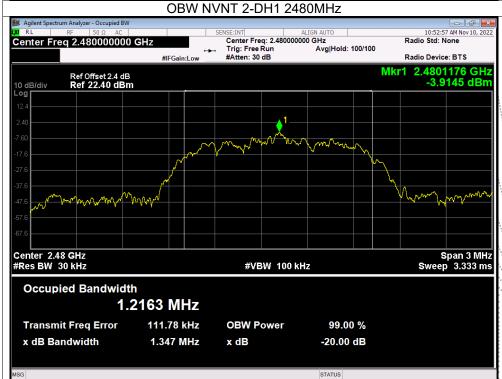


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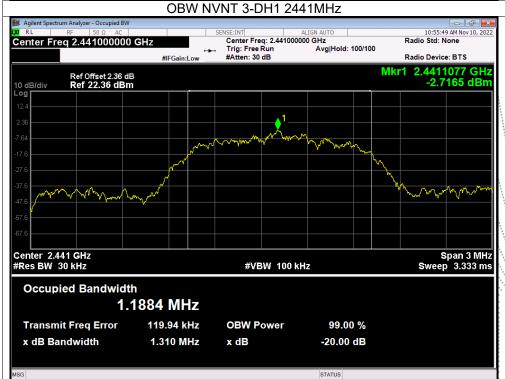






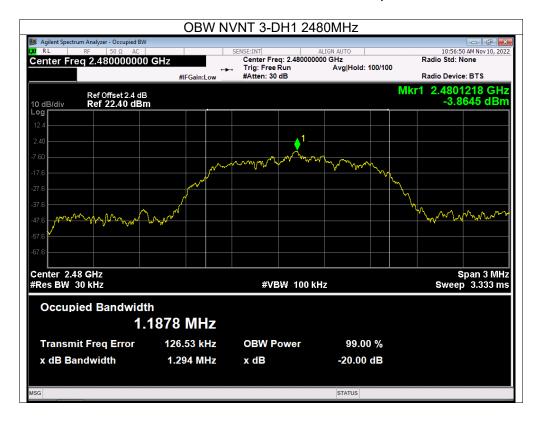


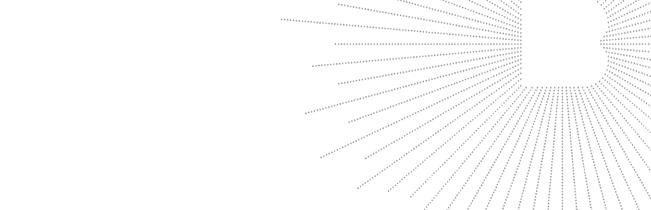




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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

RSS-247 Clause 5.4(b)						
Section	Section Test Item Limit (connected Power)			Frequency Range (MHz)	Result	
RSS-247 Clause 5.4(b)	Peak Output Power	0.125 watt or 21dBm	4W or 36dBm	2400-2483.5	PASS	

11.3 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
- 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value

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11.4 Test Result

Temperature :	26℃	Relative Humidity:	54%
Test Voltage :	DC 12V	Remark:	N/A

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
NVNT	1-DH1	2402	2.46	21	-4.77	36	Pass
NVNT	1-DH1	2441	2.48	21	-4.75	36	Pass
NVNT	1-DH1	2480	0.82	21	-6.41	36	Pass
NVNT	2-DH1	2402	2.53	21	-4.70	36	Pass
NVNT	2-DH1	2441	2.11	21	-5.12	36	Pass
NVNT	2-DH1	2480	0.87	21	-6.36	36	Pass
NVNT	3-DH1	2402	3.08	21	-4.15	36	Pass
NVNT	3-DH1	2441	2.55	21	-4.68	36	Pass
NVNT	3-DH1	2480	1.4	21	-5.83	36	Pass

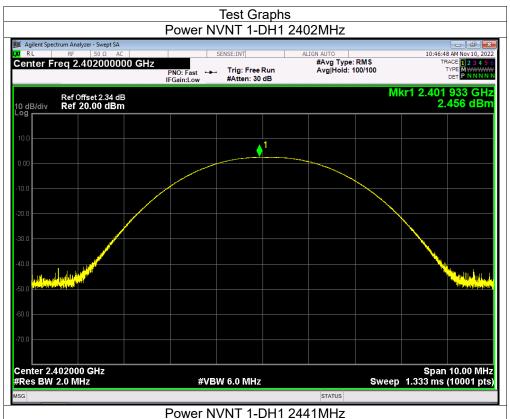
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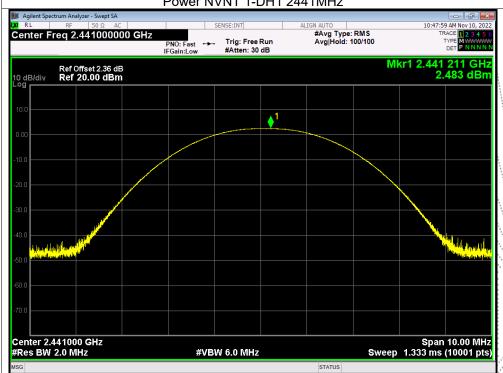
- 1.Maximum Conducted Output Power= Reading Conducted Output Power+ Offset 2.EIRP= Maximum Conducted Output Power+Antenna gain 3. Antenna gain=-7.23dBi

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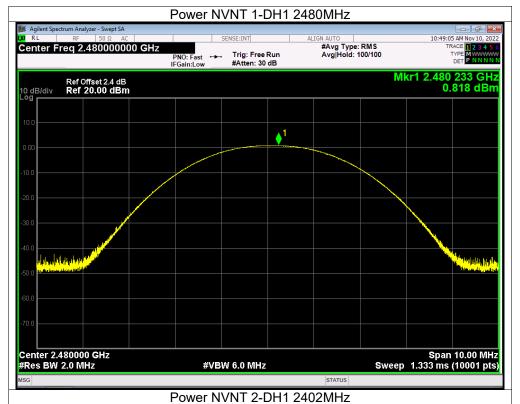
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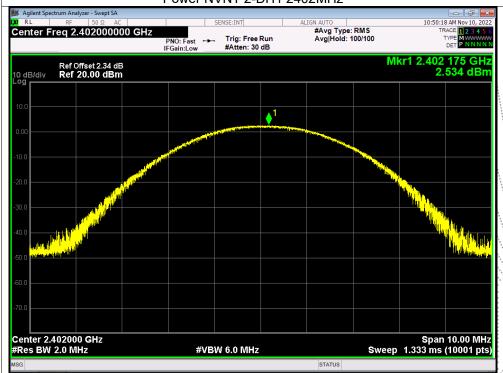
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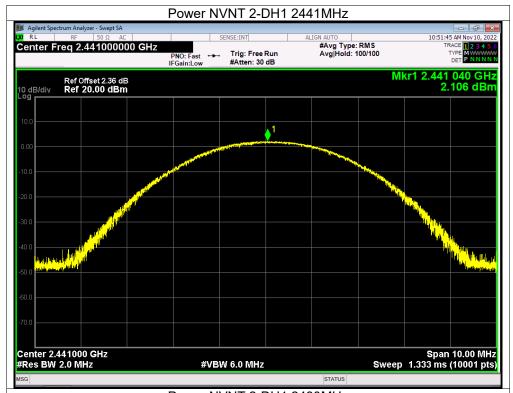


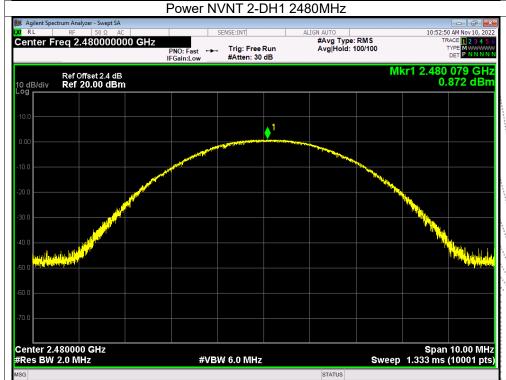




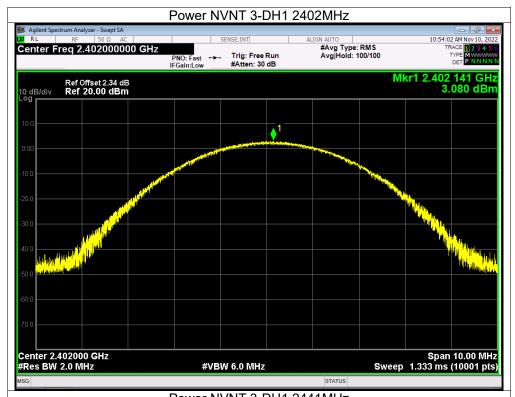
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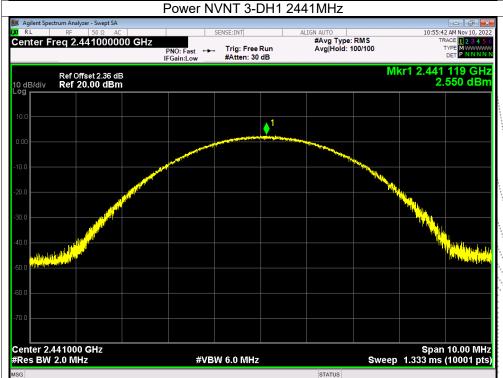






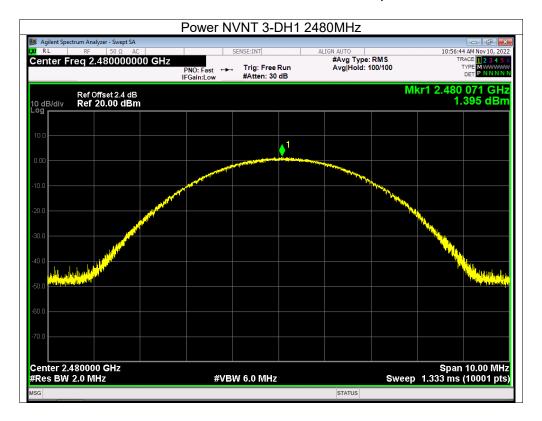
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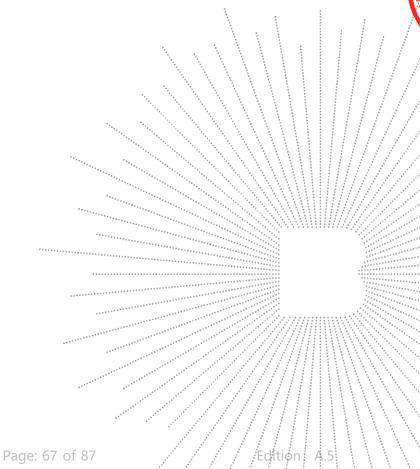




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12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

12.2 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 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

12.3 Test Procedure

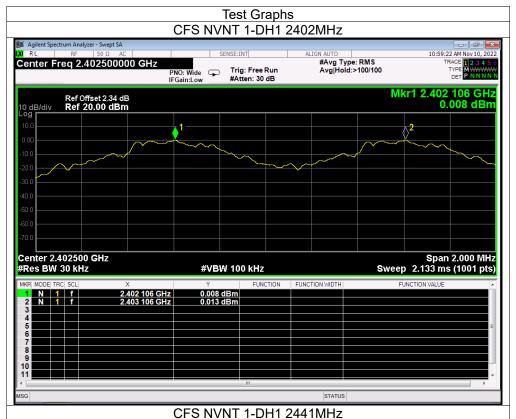
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

12.4 Test Result

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2402.106	2403.106	1	0.686	Pass
NVNT	1-DH1	2441.112	2442.11	0.998	0.699	Pass
NVNT	1-DH1	2479.12	2480.116	0.996	0.695	Pass
NVNT	2-DH1	2402.108	2403.11	1.002	0.906	Pass
NVNT	2-DH1	2441.114	2442.118	1.004	0.902	Pass
NVNT	2-DH1	2479.118	2480.118		0.890	Pass
NVNT	3-DH1	2402.106	2403.106	1	0.886	Pass
NVNT	3-DH1	2441.116	2442.11	0.994	0.871	Pass
NVNT	3-DH1	2479.118	2480.118	1	0.883	Pass

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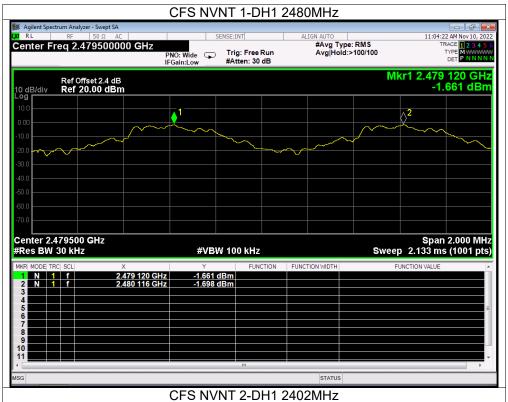
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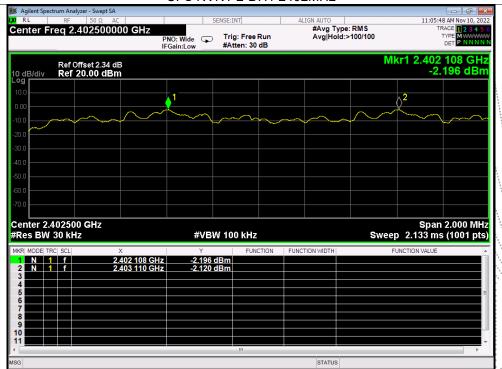
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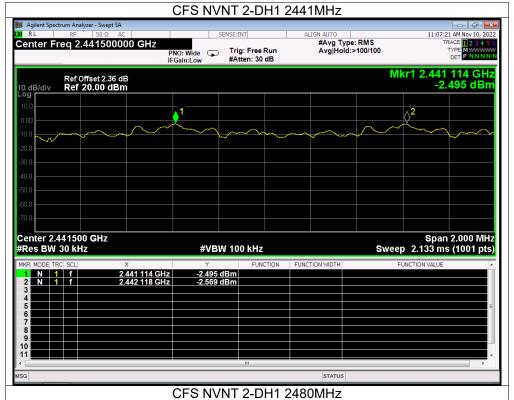


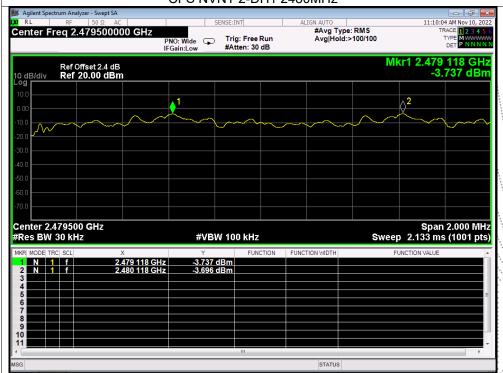




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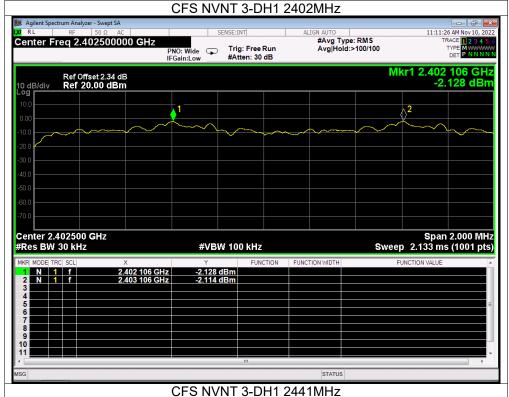


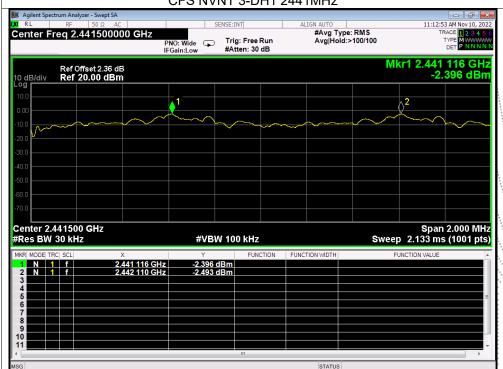




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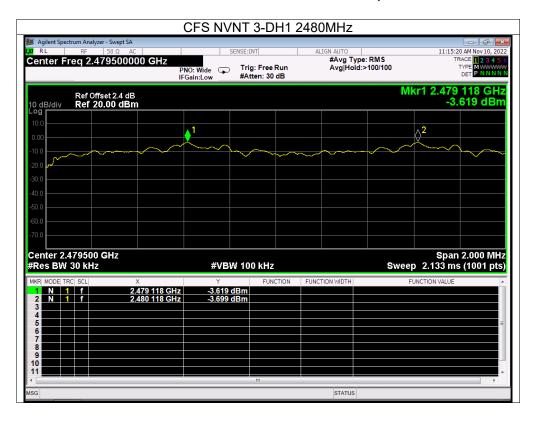


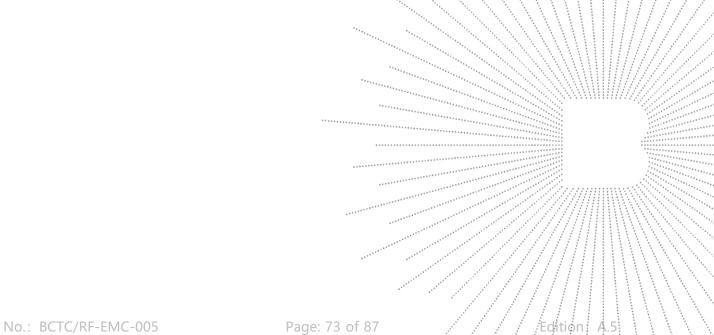




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13. Number Of Hopping Frequency

13.1 Block Diagram Of Test Setup

EUT	SPECTRUM		
	ANALYZER		

13.2 Limit

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

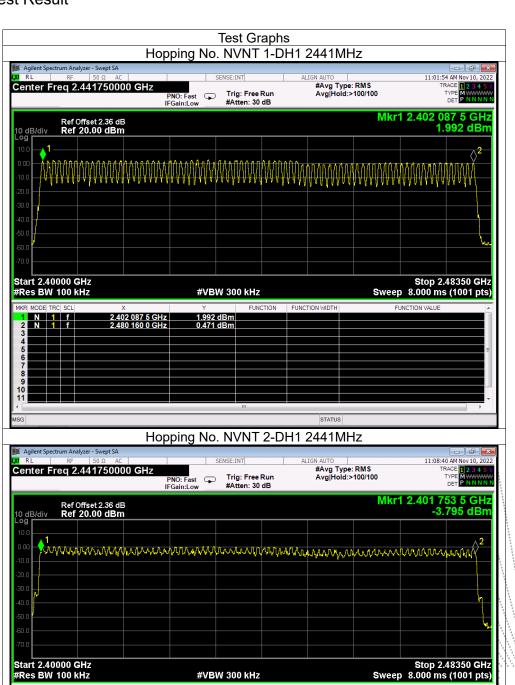
13.3 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
- 4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz, Sweep=auto;

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13.4 Test Result



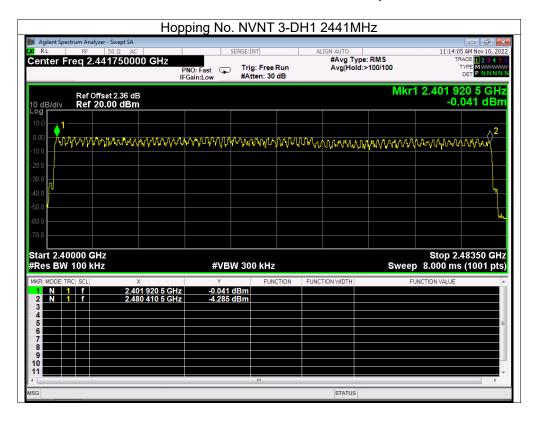
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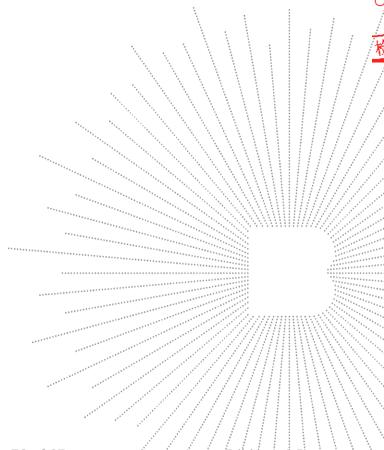
2.401 753 5 GHz 2.480 494 0 GHz TC

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14. Dwell Time

14.1 Block Diagram Of Test Setup

EUT	SPECTRUM		
	ANALYZER		

14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

14.3 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set spectrum analyzer span = 0. Centred on a hopping channel;
- 3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- 4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

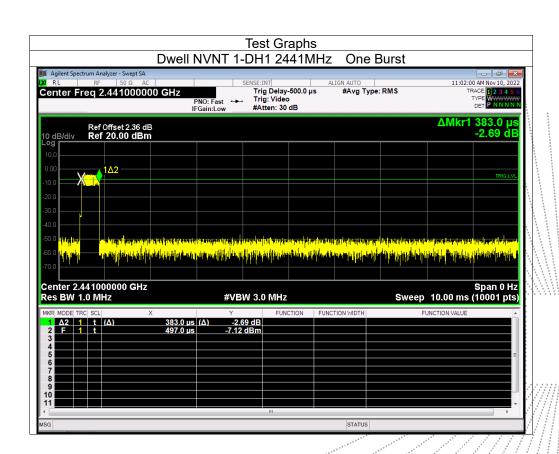
DH5:1600/79/6*0.4*79*(MkrDelta)/1000 DH3:1600/79/4*0.4*79*(MkrDelta)/1000 DH1:1600/79/2*0.4*79*(MkrDelta)/1000 Remark: Mkr Delta is once pulse time.

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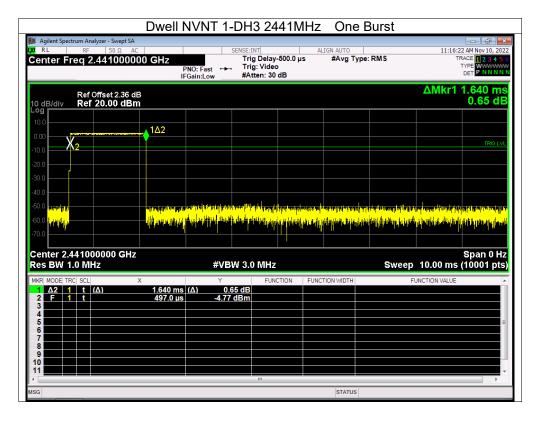


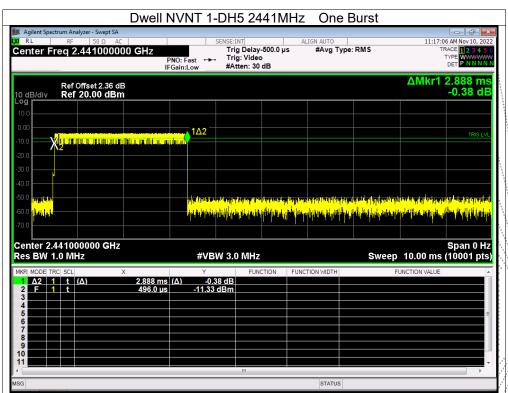
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (s)	Limit (s)	Verdict
NVNT	1-DH1	2441	0.383	0.123	0.4	Pass
NVNT	1-DH3	2441	1.64	0.262	0.4	Pass
NVNT	1-DH5	2441	2.888	0.308	0.4	Pass
NVNT	2-DH1	2441	0.389	0.124	0.4	Pass
NVNT	2-DH3	2441	1.641	0.263	0.4	Pass
NVNT	2-DH5	2441	2.889	0.308	0.4	Pass
NVNT	3-DH1	2441	0.389	0.124	0.4	Pass
NVNT	3-DH3	2441	1.64	0.262	0.4	Pass
NVNT	3-DH5	2441	2.891	0.308	0.4	Pass



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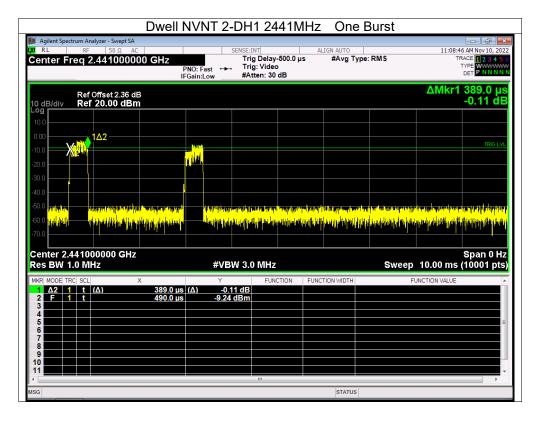


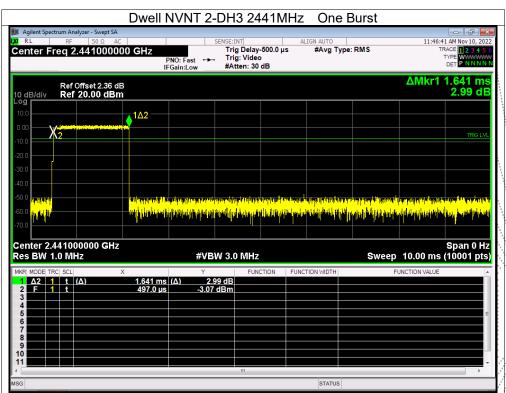




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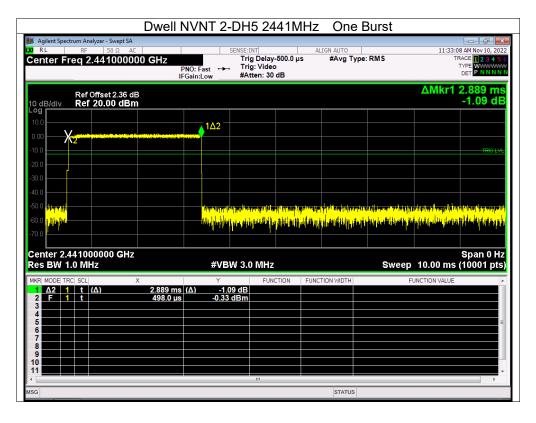


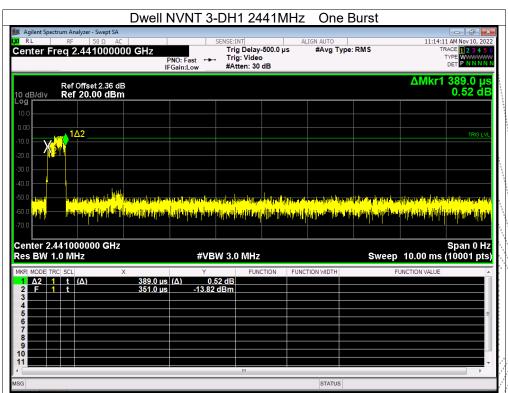




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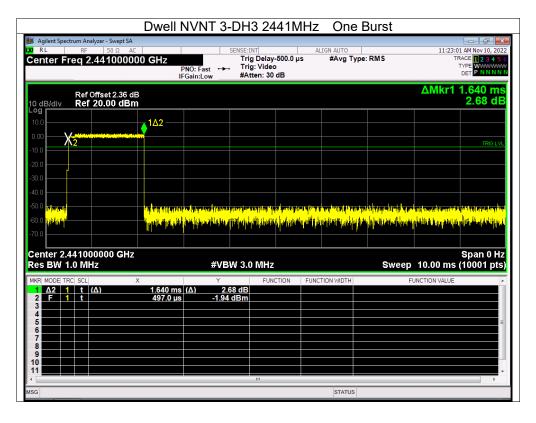


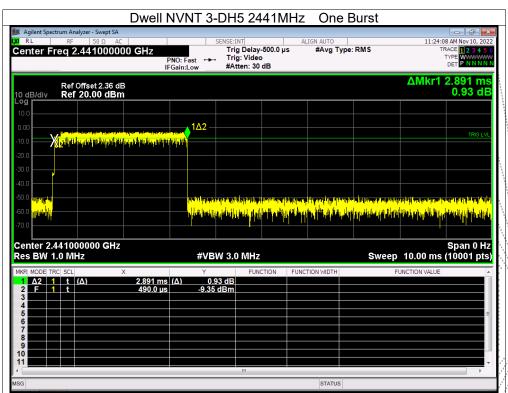




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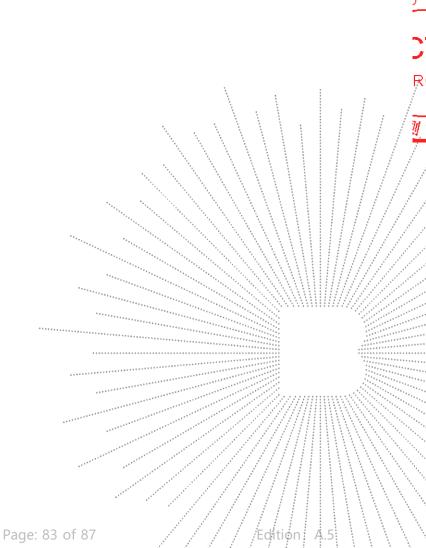
15. Antenna Requirement

15.1 Limit

According to RSS-Gen issue 5, section 8.3, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns.

15.2 Test Result

The EUT antenna is FPC antenna, fulfill the requirement of this section.



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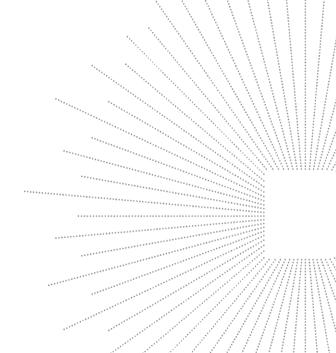


16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details



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17. EUT Test Setup Photographs

Conducted Emissions Photo



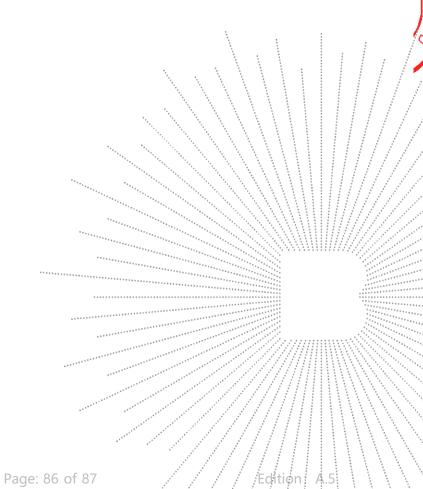
Radiated Measurement Photos



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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.
- 8. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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**** END ****

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