

TEST REPORT

Report No.:	BCTC2312391622-1E					
Applicant:	Telecell Mobile (H.K) Ltd.					
Product Name:	LTE Bar Phone					
Test Model:	FURY LTE T1					
Tested Date:	2023-12-29 to 2024-01-11					
Issued Date:	2024-01-11					
She	nzhen BCTC Testing Co., Ltd.					
No.: BCTC/RF-EMC-005	Page: 1 of 79					



FCC ID: 2ADX3T1

Product Name:	LTE Bar Phone			
Trademark:	FIGO			
Model/Type Reference:	FURY LTE T1			
Prepared For:	Telecell Mobile (H.K) Ltd.			
Address:	RM 801 Metro Ctr II, 21 Lam Hing Street KIn Bay, Hong Kong			
Manufacturer:	Telecell Mobile (H.K) Ltd.			
Address:	RM 801 Metro Ctr II, 21 Lam Hing Street Kln Bay, Hong Kong			
Prepared By:	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			
Sample Received Date:	2023-12-29			
Sample tested Date:	2023-12-29 to 2024-01-11			
Issue Date:	2024-01-11			
Report No.:	BCTC2312391622-1E			
Test Standards	FCC Part15.247 ANSI C63.10-2013			
Test Results	PASS			
Remark:	This is Bluetooth Classic radio test report.			

Tested by:

WR

Brave Zeng/ 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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(Note: N/A Means Not Applicable)

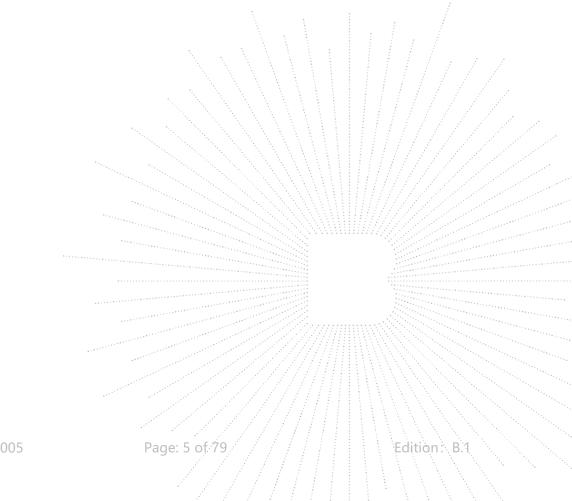
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2312391622-1E	2024-01-11	Original	Valid





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	§15.207	PASS
2	Conducted peak output power for FHSS	§15.247(b)(1)	PASS
3	20dB Occupied bandwidth	§15.247(a)(1)	PASS
4	Hopping channel separation	§15.247(a)(1)	PASS
5	Number of hopping frequencies	§15.247(a)(1)(iii)	PASS
6	Dwell Time	§15.247(a)(1)(iii)	PASS
7	Spurious RF conducted emissions	§15.247(d)	PASS
8	Band edge	§15.247(d)	PASS
9	Spurious radiated emissions for transmitter	§15.247(d) & §15.209 & §15.205	PASS
10	Antenna Requirement	15.203	PASS



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 chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59 ℃

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4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	FURY LTE T1
Model differences:	N/A
Bluetooth Version:	5.0
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	2402-2480MHz
Type of Modulation:	GFSK, π/ 4 DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	Internal antenna
Antenna Gain:	 2.84 dBi Remark: The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. The antenna gain of the product is provided by the customer, and the test data is affected by the customer, and the test data is affected by the customer.
Ratings:	DC 5V from adapter/DC 3.7V from battery
Adapter Information:	Model:T1 Input: AC 100-240V 50/60Hz 0.2A Output: DC 5.0V 500mA

4.2 Test Setup Configuration

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

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4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	LTE Bar Phone	FIGO	FURY LTE T1	N/A	EUT
E-2	Adapter	N/A	T1	N/A	Auxiliary

ltem	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	1M	DC cable unshielded

Notes:

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		2480	79	



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.

Test Mode	Test mode	Low channel	Middle channel	High channel		
1	Transmitting(GFSK)	2402MHz	2441MHz	2480MHz		
2	Transmitting(π/ 4 DQPSK)	2402MHz	2441MHz	2480MHz		
3	Transmitting(8DPSK)	2402MHz	2441MHz	2480MHz		
4	Link mode					

Note:

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

(2) Fully-charged battery is used during the test

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	2441 MHz	2480 MHz			
Parameters	DEF	DEF	DEF			



Test Facility And Test Instrument Used 5.

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

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test								
Equipment	EquipmentManufacturerModel#Serial#Last Cal.Next Cal.							
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024			
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024			
Software	Frad	EZ-EMC	EMC-CON 3A1	١	/			
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept 21, 2024			

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power meter	Keysight	E4419	1	May 15, 2023	May 14, 2024	
Power Sensor (AV)	Keysight	E9300A		May 15, 2023	May 14, 2024	
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024	
Communication test set	R&S	CMW500	126173	Nov. 13. 2023	Nov. 12, 2024	
Radio frequency control box	MAIWEI	MW200-RFC B	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$			
Software	MAIWEI	MTS 8200	P_{i}	l l		



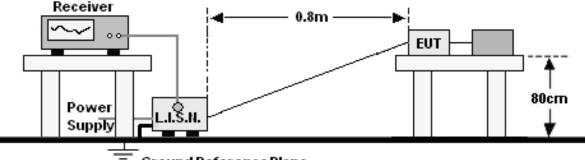
Radiated Emissions Test (966 Chamber01)							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026		
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024		
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024		
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024		
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024		
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024		
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 15, 2023	May 14, 2024		
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024		
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024		
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024		
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024		
Communication test set	R&S	CMW500	126173	Nov. 13. 2023	Nov. 12, 2024		
Software	Frad	EZ-EMC	FA-03A2 RE	\	\		

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



Ground Reference Plane

6.2 Limit

	Limit (dBuV)
Frequency (MHz)	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	10 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.

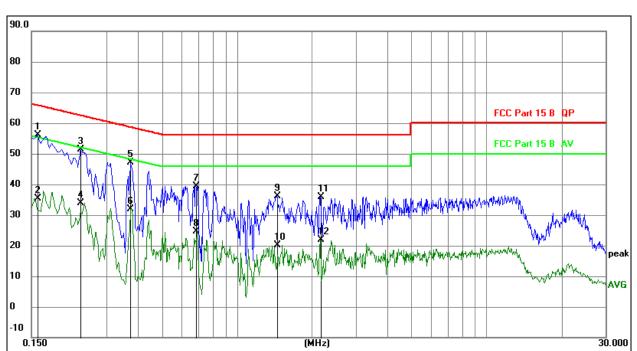
6.4 EUT operating Conditions

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.



6.5 Test Result

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



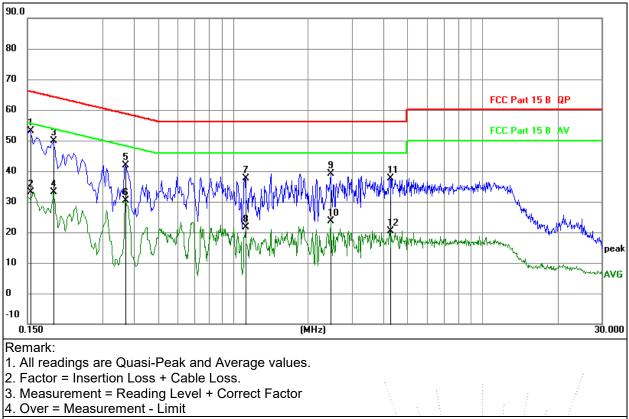
Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1590	36.45	19.75	56.20	65.52	-9.32	QP
2		0.1590	15.61	19.75	35.36	55.52	-20.16	AVG
3		0.2355	31.53	19.83	51.36	62.25	-10.89	QP
4		0.2355	13.97	19.83	33.80	52.25	-18.45	AVG
5		0.3750	27.40	19.84	47.24	58.39	-11.15	QP
6		0.3750	12.05	19.84	31.89	48.39	-16.50	AVG
7		0.6855	19.66	19.84	39.50	56.00	-16.50	QP
8		0.6855	4.89	19.84	24.73	46.00	-21.27	AVG
9		1.4415	16.16	19.95	36.11	56.00	-19.89	QP
10		1.4415	0.23	19.95	20.18	46.00	-25.82	AVG
11		2.1570	15.98	20.01	35.99	56.00	-20.01	QP
12		2.1570	1.89	20.01	21.90	46.00	-24.10	AVG



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



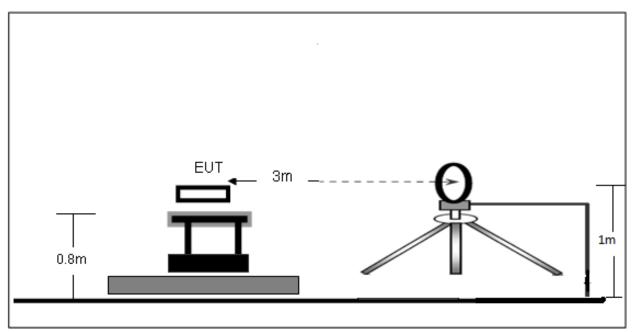
		on Loss + C			1			1
3. Meas	urement =	= Reading L	evel + Correct	t Factor			1	1
4. Over :	= Measur	ement - Lim	it					
	N/Lc		Reading	Correct	Measure-	Limit	Over	
INO.	Mk.	Freq.	Level	Factor	ment	LIIIII	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1545	33.49	19.74	53.23	65.75	-12.52	QP
2		0.1545	13.30	19.74	33.04	55.75	-22.71	AVG
3		0.1905	30.04	19.81	49.85	64.01	-14.16	QP
4		0.1905	13.29	19.81	33.10	54.01	-20.91	AVG
5		0.3704	22.15	19.84	41.99	58.49	-16.50	QP
6		0.3704	10.56	19.84	30.40	48.49	-18.09	AVG
7		1.1220	17.61	19.95	37.56	56.00	-18.44	QP
8		1.1220	1.56	19.95	21.51	46.00	-24.49	AVG
9		2.4630	18.92	20.11	39.03	56.00	-16.97	QP
10		2.4630	3.58	20.11	23.69	46.00	-22.31	AVG
11		4.2540	17.06	20.60	37.66	56.00	-18.34	QP
12		4.2540	-0.15	20.60	20.45	46.00	-25.55	AVG
1								



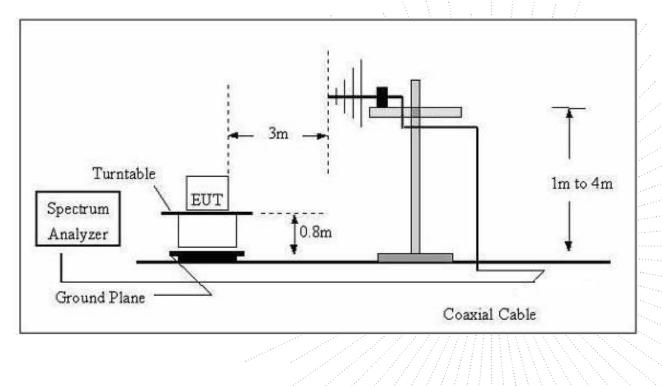
7. Radiated emissions

7.1 Block Diagram Of Test Setup

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

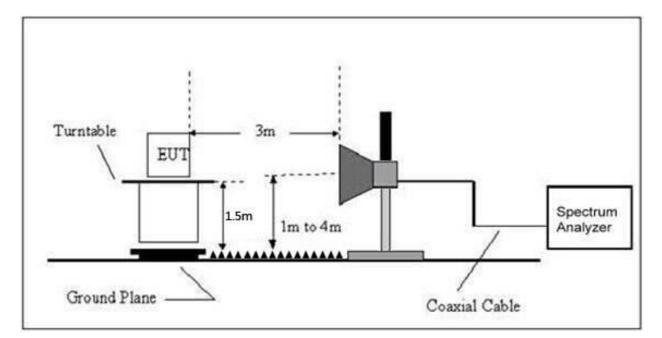


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Field Strength	Distance	Field Strength Limit at 3m Distance		
uV/m	(m)	uV/m	dBuV/m	
2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
30	30	100 * 30	20log ⁽³⁰⁾ + 40	
100	3	100	20log ⁽¹⁰⁰⁾	
150	····	150	20log ⁽¹⁵⁰⁾	
200	3	200	20log ⁽²⁰⁰⁾	
500	3	500	20log ⁽⁵⁰⁰⁾	
	uV/m 2400/F(kHz) 24000/F(kHz) 30 100 150 200	uV/m (m) 2400/F(kHz) 300 24000/F(kHz) 30 30 30 100 3 150 3 200 3	uV/m (m) uV/m 2400/F(kHz) 300 10000 * 2400/F(kHz) 24000/F(kHz) 30 100 * 24000/F(kHz) 30 30 100 * 30 100 3 100 150 3 150 200 3 200	

Limits Of Radiated Emission Measurement (Above 1000MHz)

	Limit (dBuV/m) (at 3M)	
Frequency (MHz)	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).



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
 (5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the

functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

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:

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 middlest 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:	54%
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	\H ///////////////////////////////////

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

Note:

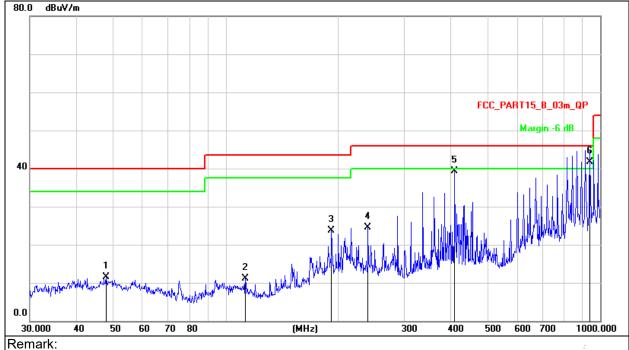
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



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





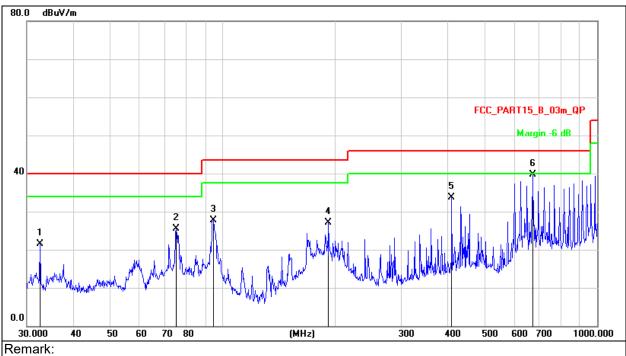
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Measurement = Reading Level + Correct Factor 3. Over = Measurement - Limit

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.9940	25.50	-14.06	11.44	40.00	-28.56	QP
2		112.9196	28.02	-16.83	11.19	43.50	-32.31	QP
3		191.7450	40.02	-16.33	23.69	43.50	-19.81	QP
4		239.9874	39.12	-14.58	24.54	46.00	-21.46	QP
5		408.9460	50.06	-10.66	39.40	46.00	-6.60	QP
6	*	935.9756	44.78	-2.99	41.79	46.00	-4.21	QP



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



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

		ent = Reading isurement - Lir	Level + Correct nit	t Factor				
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		32.5198	37.59	-16.16	21.43	40.00	-18.57	QP
2		75.1822	44.48	-18.91	25.57	40.00	-14.43	QP
3		94.4284	44.37	-16.75	27.62	43.50	-15.88	QP
4		191.7450	43.43	-16.33	27.10	43.50	-16.40	QP
5		408.9460	44.45	-10.66	33.79	46.00	-12.21	QP
6	*	672.8444	45.65	-5.95	39.70	46.00	-6.30	QP
				1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	المراجعين المعرر المتعمرين	21.4	10 A. A. A.	. 1966 - 1966 -



Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			GFSK Lo	w channel			
V	4804.00	73.62	-19.99	53.63	74.00	-20.37	PK
V	4804.00	65.59	-19.99	45.60	54.00	-8.40	AV
V	7206.00	63.19	-14.22	48.97	74.00	-25.03	PK
V	7206.00	54.14	-14.22	39.92	54.00	-14.08	AV
Н	4804.00	70.09	-19.99	50.10	74.00	-23.90	PK
Н	4804.00	60.63	-19.99	40.64	54.00	-13.36	AV
Н	7206.00	61.04	-14.22	46.82	74.00	-27.18	PK
Н	7206.00	53.66	-14.22	39.44	54.00	-14.56	AV
GFSK Middle channel							
V	4882.00	72.50	-19.84	52.66	74.00	-21.34	PK
V	4882.00	63.99	-19.84	44.15	54.00	-9.85	AV
V	7323.00	62.02	-13.90	48.12	74.00	-25.88	PK
V	7323.00	53.39	-13.90	39.49	54.00	-14.51	AV
Н	4882.00	67.65	-19.84	47.81	74.00	-26.19	PK
Н	4882.00	58.38	-19.84	38.54	54.00	-15.46	AV
Н	7323.00	59.04	-13.90	45.14	74.00	-28.86	PK
Н	7323.00	51.49	-13.90	37.59	54.00	-16.41	AV
			GFSK Hig	gh channel			
V	4960.00	74.94	-19.68	55.26	74.00	-18.74	PK
V	4960.00	66.54	-19.68	46.86	54.00	-7.14	AV
V	7440.00	68.18	-13.57	54.61	74.00	-19.39	PK
V	7440.00	58.90	-13.57	45.33	54.00	-8.67	AV
Н	4960.00	72.43	-19.68	52.75	74.00	-21.25	PK
Н	4960.00	62.23	-19.68	42.55	54.00	-11.45	AV
Н	7440.00	67.12	-13.57	53.55	74.00	-20.45	PK
Н	7440.00	59.00	-13.57	45.43	54.00	-8.57	AV

Between 1GHz – 25GHz

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - 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.

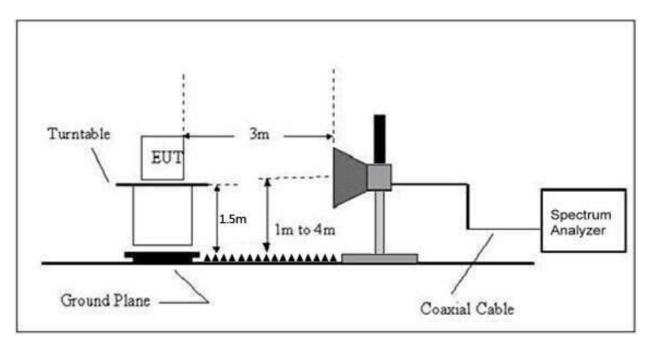
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



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

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			



Limits Of Radiated Emission Measurement (Above 1000MHz)

	Limit (dBuV/m) (at 3M)		
Frequency (MHz)	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).

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 middlest 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.



8.5 Test Result

Test Polar mode (H/V)	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)		nits V/m)	Result
	()	(MHz)	(dBuV/m)	(dB)	PK	PK	AV	
			Ĺ	ow Channe	l 2402MHz		L	L
	Н	2390.00	72.37	-25.43	46.94	74.00	54.00	PASS
	Н	2400.00	75.57	-25.40	50.17	74.00	54.00	PASS
	V	2390.00	71.82	-25.43	46.39	74.00	54.00	PASS
GFSK	V	2400.00	75.89	-25.40	50.49	74.00	54.00	PASS
Gran			ŀ	ligh Channe	l 2480MHz			
	Н	2483.50	75.39	-25.15	50.24	74.00	54.00	PASS
	Н	2500.00	70.42	-25.10	45.32	74.00	54.00	PASS
	V	2483.50	75.78	-25.15	50.63	74.00	54.00	PASS
	V	2500.00	72.71	-25.10	47.61	74.00	54.00	PASS
			L	ow Channe	l 2402MHz			
	Н	2390.00	72.95	-25.43	47.52	74.00	54.00	PASS
	Н	2400.00	76.99	-25.40	51.59	74.00	54.00	PASS
	V	2390.00	73.47	-25.43	48.04	74.00	54.00	PASS
	V	2400.00	78.24	-25.40	52.84	74.00	54.00	PASS
π/4DQPSK			ŀ	ligh Channe	l 2480MHz			
	Н	2483.50	76.22	-25.15	51.07	74.00	54.00	PASS
	Н	2500.00	71.37	-25.10	46.27	74.00	54.00	PASS
	V	2483.50	77.10	-25.15	51.95	74.00	54.00	PASS
	V	2500.00	74.55	-25.10	49.45	74.00	54.00	PASS
			L	ow Channe	l 2402MHz			
	Н	2390.00	72.50	-25.43	47.07	74.00	54.00	PASS
	Н	2400.00	75.91	-25.40	50.51	74.00	54.00	PASS
	V	2390.00	71.54	-25.43	46.11	74.00	54.00	PASS
8DPSK	V	2400.00	75.01	-25.40	49.61	74.00	54.00	PASS
ODROV			ŀ	ligh Channe	l 2480MHz			
	Н	2483.50	75.27	-25.15	50.12	74.00	54.00	PASS
	Н	2500.00	71.11	-25.10	46.01	74.00	54.00	PASS
	V	2483.50	73.59	-25.15	48.44	74.00	54.00	PASS
	V	2500.00	69.39	-25.10	44.29	74.00	54.00	PASS

Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier,

Over= Measurement - Limit

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. Spurious RF Conducted Emissions

9.1 Block Diagram Of Test Setup



9.2 Limit

Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c))

9.3 Test procedure

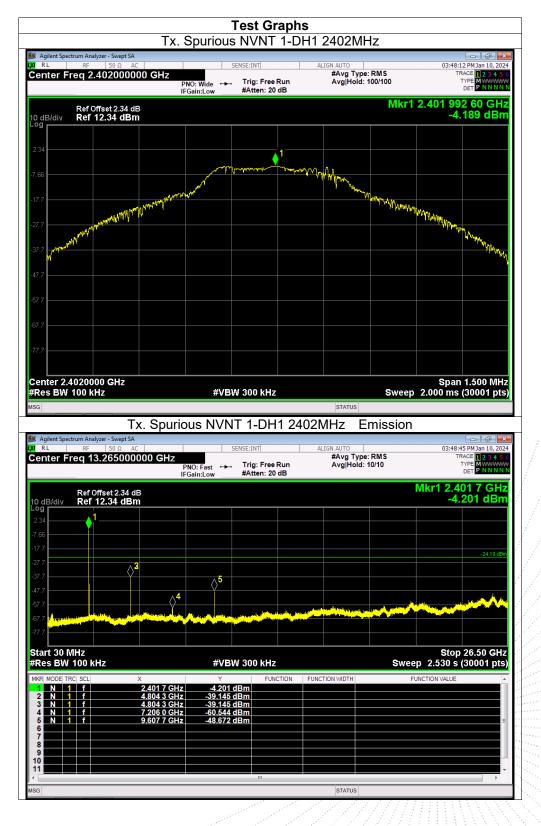
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto Detector function = peak, Trace = max hold

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9.4 Test Result



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RL RF 50 Ω	AC	SENSE	INT	ALIGN AUTO		03:51:20 PI	— 🗇 🕅 M Jan 10, 2
enter Freq 2.44100	00000 GHz	_	ig: Free Run	#Avg Typ Avg Hold:	e: RMS	TRACE	1234
			tten: 20 dB	Avginoid:			
Ref Offset 2.3	36 dB				Mkr1	2.440 828	80 GI 00 dB
dB/div Ref 12.36 o	abm					-5.00	
		- mark	man man	we con A Plan			
.64				When a			
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7.6 Jon Mar 1							W WWW
7.6							
7.6							
7.6							
7.6							
enter 2.4410000 GH	z					Span 1.	
Res BW 100 kHz		#VBW 30	JU KHŻ		Sweep	2.000 ms (30	JUU1 p
G				0717			
				STATUS			
Anilant Spectrum Archar		ous NVNT 1	I-DH1 24		Emission		1.01
RL RF 50 Ω	pt SA AC			441MHz E		03·51·52 P	- @ (M Jan 10, 2
RL RF 50 Ω	pt SA AC 000000 GHz P	SENSE PNO: Fast →→ Tr	int	441MHz E	e: RMS	03:51:52 PI TRACE	
RL RF 50 Ω enter Freq 13.2650	Pt SA AC 000000 GHz IF	SENSE	INT	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P N N N 4 GH
RL RF 50 Ω enter Freq 13.2650 Ref 0ffset 2.3 GdB/div Ref 0ffset 2.3	AC A	SENSE PNO: Fast →→ Tr	int	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	M Jan 10, 2 1 2 3 4 M M M M T P N N N
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 D dB/div Ref 12.36 (99	AC A	SENSE PNO: Fast →→ Tr	int	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P N N N 4 GH
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 D dB/div Ref Offset 2.36 236 1	AC A	SENSE PNO: Fast →→ Tr	int	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P N N N 4 GH
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.36 0 236 1 64 1	AC A	SENSE PNO: Fast →→ Tr	int	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P N N N 4 GH
enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.36 (9 9 1 -64 7.6 -7.6	AC A	SENSE PNO: Fast → Tr Gain:Low #A	int	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P NNN 4 GH 56 dB
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.36 0 236 1 64 1	AC A	SENSE PNO: Fast →→ Tr	int	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P NNN 4 GH 56 dB
RL RF 50 Ω enter Freq 13.265(Ref Offset 2.3 0 dB/div Ref 12.36 (236 1 7.6 1 7.7.6 1	AC A	SENSE PNO: Fast → Tr Gain:Low #A	int	441MHz E Align Auto #Avg Typ Avg Hold:	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P NNN 4 GH 56 dB
RL RF 50 Ω enter Freq 13.265(Ref Offset 2.36 0 dB/div Ref 12.36 € 236 1 .64 1 7.6 1 .76 1 .76 1	AC AC D000000 GHz P IF 36 dB dBm 48 48 48 48 48 48 48 48 48 48	SENSE PNO: Fast → Tr Gain:Low #A	int	441MHz E Align Auto #Avg Typ	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P NNN 4 GH 56 dB
RL RF 50 Ω enter Freq 13.265(Ref Offset 2.3 0 dB/div Ref 12.36 (236 1 64 1 7.6 1 7.7.6 1 7.7.6 1 7.7.6 1	AC AC D000000 GHz P IF 36 dB dBm 48 48 48 48 48 48 48 48 48 48	SENSE PNO: Fast → Tr Gain:Low #A	int	441MHz E Align Auto #Avg Typ Avg Hold:	e: RMS	03:51:52 PI TRACE TYPE DET	MJan 10, 2 1 2 3 4 MWWW P NNN 4 GH 56 dB
RL RF 50 Ω enter Freq 13.265(Ref Offset 2: Ref 0 ffset 2: 0 dB/div Ref 12.36 (Ref 12:36 (2 36 1 1 7.7	AC AC D000000 GHz P IF 36 dB dBm 48 48 48 48 48 48 48 48 48 48	PNO: Fast → Tr Gain:Low #A	INT	441MHz E Align Auto #Avg Typ Avg Hold:	e: RMS : 10/10	03:51:52 PT TRACE DET Mkr1 2.441 -5.75	A GF A GF A GF A GF A GF A GF A GF A GF
RL RF 50 Ω enter Freq 13.265(Ref Offset 2.36 0 dB/div Ref 12.36 2 36 1	AC AC D000000 GHz P IF 36 dB dBm 48 48 48 48 48 48 48 48 48 48	SENSE PNO: Fast → Tr Gain:Low #A	int free Run tten: 20 dB	441MHz E	e: RMS : 10/10	03:51:52 PT TRACE TYPE DET Mkr1 2.441 -5.75	A GF A GF A GF A GF A GF A GF A GF A GF
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RL RF 50 0. enter Freq 13.2650 Ref Offset 2. Ref Offset 2. 0 dB/div Ref 12.36 (0) Ref 12.36 (0) 236 1 1 64 1 1 64 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 8 N 000 KHz 1 8 N 1 1	AC 000000 GHz P 000000 GHz P 16 36 dB dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	PNO: Fast → Tr Gain:Low → Tr Gain:Low → Tr #A	INT ig: Free Run tten: 20 dB	441MHz E	e: RMS : 10/10	03:51:52 PT TRACE TYPE DET Mkr1 2.441 -5.75	A GF A GF A GF A GF A GF A GF A GF A GF
RL RF 50 Ω enter Freq 13.265(Ref Offset 2: Ref Offset 2: 0 dB/div Ref 12.36 (Ref 2: 235 1 1 64 1 1 7.6 1 1 7.7.6 1 1 7.7.6 1 1 7.7.6 1 1 7.7.6 1 1 8 8W 100 kHz 1 8 MODE TRC SCL 1 1 1 1	AC DODOOOO GHZ AC PIF 36 dB dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	PNO: Fast → Tr Gain:Low → Tr Gain:Low → Tr #A 5 5 5 * * * * * * * * * * * * * * * *	IINT ig: Free Run ttten: 20 dB ig: Free Run ttten: 20 dB ig: Free Run ig: Free Ru	441MHz E	e: RMS : 10/10	03:51:52 PT TRACE TYPE DET Mkr1 2.441 -5.75	A GF A GF A GF A GF A GF A GF A GF A GF
RL RF 50 Ω enter Freq 13.265(Ref Offset 2: Ref Offset 2: 0 dB/div Ref 12.36 (Ref 12: 1 1 1 64 1 1 7:6 1 1 7:7.6 1 1 7:7.6 1 1 7:7.6 1 1 7:7.6 1 1 7:7.6 1 1 7:7.6 1 1 7:7.6 1 1 7:7.6 1 1 8 NDHZ 1 8 NDHZ 1 1 1 1 2 N 1 3 N 1 3 N 1	AC AC AC AC AC AC AC AC AC AC	SENSE SENSE	IINT ig: Free Run ttten: 20 dB ig: Free Run ttten: 20 dB ig: Free Run ig: Free Ru	441MHz E	e: RMS : 10/10	03:51:52 PT TRACE TYPE DET Mkr1 2.441 -5.75	A GF A GF A GF A GF A GF A GF A GF A GF
RL RF 50 Ω enter Freq 13.265(Ref Offset 2: Ref Offset 2: 0 dB/div Ref 12.36 (Ref 2: 235 1 1 236 1 1 7:6 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1 7:76 1 1	AC AC AC AC AC AC AC AC AC AC	PNO: Fast → Tr Gain:Low → Tr Gain:Low → Tr #A 5 5 5 * * * * * * * * * * * * * * * *	IINT ig: Free Run ttten: 20 dB ig: Free Run ttten: 20 dB ig: Free Run ig: Free Ru	441MHz E	e: RMS : 10/10	03:51:52 PT TRACE TYPE DET Mkr1 2.441 -5.75	A GF A GF A GF A GF A GF A GF A GF A GF
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2: Ref Offset 2: 0 dB/div Ref 12.36 (Ref 2: 1 1 1 64 1 1 64 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 7:6 1 1 8 1 1	AC AC AC AC AC AC AC AC AC AC	PNO: Fast → Tr Gain:Low → Tr Gain:Low → Tr #A 5 5 5 * * * * * * * * * * * * * * * *	IINT ig: Free Run ttten: 20 dB ig: Free Run ttten: 20 dB ig: Free Run ig: Free Ru	441MHz E	e: RMS : 10/10	03:51:52 PT TRACE TYPE DET Mkr1 2.441 -5.75	A GF A GF A GF A GF A GF A GF A GF A GF

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Agilent Spectrum Analyzer - Swe RL RF 50 Ω	AC	SENSE	INT	ALIGN AUTO		04:01:33 PM Jan 10, 2
enter Freq 2.48000	00000 GHz		rig: Free Run	#Avg Typ Avg Hold		TRACE 1 2 3 4
	P		Atten: 20 dB	Avginoid		TYPE MWWW DET PNNN
Ref Offset 2.4					Mkr1	2.479 985 40 GH -2.558 dB
0 dB/div Ref 12.40 d	лыш					-2.000 4B
2.40			 1			
2.40		~~~~~	- Jon - man	ምግሥገበስቢስ A		
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Res BW 100 kHz		#VBW 3	00 kHz		Sweep	o 2.000 ms (30001 pt
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RL RF 50 Ω	pt SA AC			ALIGN AUTO		04:02:04 PM Jan 10-2
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RL RF 50 Ω	pt SA AC 000000 GHz P	SENSE	INT	ALIGN AUTO #Avg Typ	be: RMS	04:02:04 PM Jan 10, 2 TRACE 12:34 TYPE MWWW DET P.N.N
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RL RF 50 Ω center Freq 13.265(Ref Offset 2.40 0 dB/div Ref 12.40 0 24 1 7.60 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1 7.760 1	AC AC D000000 GHz P IF 4 dB dBm	SENSE PNO: Fast → Ti Gain:Low ##	INT	ALIGN AUTO #Avg Typ	be: RMS	04:02:04 PM Jan 10, 2 TRACE 1 2 3 4 TYPE MWWW DET P NNN
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Agilent Spectrum Analyzer - Swe RL RF 50 Ω		SENSE:	INT	ALIGN AUTO		04:02:44 PM Jpp 10, 2
enter Freq 2.40200	00000 GHz			ALIGN AUTO #Avg Type	RMS	04:03:44 PM Jan 10, 2 TRACE 1 2 3 4
			g: Free Run tten: 20 dB	Avg Hold:	100/100	TYPE MWWW DET PNNN
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dB/div Ref 12.34 (авт					-4.200 dB
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Anilent Spectrum Analyzer - Swee		ous NVNT 2	2-DH1 24		mission	
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RL RF 50 Ω	pt SA AC D000000 GHz P	SENSE:		02MHz E	: RMS	04:04:16 PM Jan 10, 2 TRACE 1 2 3 4
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Agilent Spectrum Analyzer - Swep RL RF 50 Ω		SENSE:I	NT	ALIGN AUTO		04:08:45 PM Jan 10, 2
enter Freq 2.44100	00000 GHz			#Avg Typ	e: RMS	TRACE 1 2 2 4
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RL RF 50 Ω	AC A	SENSE:I PNO: Fast → Tri	NT g: Free Run	41MHz E	e: RMS	04:09:16 PM Jan 10, 2 TRACE 1 2 3 4
RL RF 50Ω enter Freq 13.2650	opt SA AC 0000000 GHz IF	NO: Fast	NT	ALIGN AUTO #Avg Typ	e: RMS 10/10	04:09:16 PM Jan 10, 2 TRACE 1234 TYPE MWWW DET PNNN
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enter Freq 2.48000	00000 GHz		#Av	g Type: RMS Hold: 100/100	TRACE 1 2 2 4
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	000000 GHz	SENSE:INT	#Av	ro g Type: RMS Hold: 10/10	04:10:36 PM Jan 10, 2 TRACE 1 2 3 4 TYPE MWWW
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enter Freq 13.2650 Ref Offset 2. 0 dB/div Ref 12.40	000000 GHz PN IFC 4 dB	IO: Fast ↔ Trig:	#Av Free Run Avg	g Type: RMS Hold: 10/10	
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enter Freq 13.2650 Ref Offset 2.	D00000 GHz PP IFC 4 dB dBm	IO: Fast ↔ Trig:	#Av Free Run Avg	g Type: RMS Hold: 10/10	TRACE 11 2 3 4 TYPE MWWW DET P NNN Akr1 2.480 2 GH -2.539 dB
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Agilent Spectrum Analyzer - Swep RL RF 50 Ω	ot SA	JS NVNT 3-DH		Emission	04:12:07 PM Jan 10, 2
	AC GHZ	SENSE:INT O: Fast ↔ Trig: Free	ALIGN AUTO #Avg Typ & Run AvgHold	e: RMS	04:12:07 PM Jan 10, 2 TRACE 1 2 3 4
RL RF 50 Ω	AC A	SENSE:INT	ALIGN AUTO #Avg Typ & Run AvgHold	e: RMS : 10/10	04:12:07 PMJan 10, 2 TRACE 1 2 3 4 TYPE MWWW DET P N N N
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.34 d	AC AC AC AC AC AC AC AC AC AC AC AC AC A	SENSE:INT O: Fast →→ Trig: Free	ALIGN AUTO #Avg Typ & Run AvgHold	e: RMS : 10/10	04:12:07 PM Jan 10, 2 TRACE 1 2 3 4 TYPE MWWW DET P NNN
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RL RF 50 Ω enter Freq 13.2650 Ref Offset2.3 0 dB/div Ref 12.34 c 99 1 1 1 1 1 7,7 7,7 7,7 7,7	AC DOUDOOO GHZ PN IFG 34 dB 1Bm	O: Fast →→ Trig: Free ain:Low #Atten: 2	ALIGN AUTO #Avg Typ & Run AvgHold	e: RMS : 10/10	04:12:07 PM Jan 10, 2 TRACE 12 34 TYPE WWW DET WWW Ikr1 2.402 6 GH -4.225 dB
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RL RF 50.0 enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.34 (c) 34 1 66 1 77 1 7 1	At SA AC AC AC AC AC AC AC AC AC A	SENSE:INT O: Fast → Trig: Free ain:Low → #Atten: 21	ALIGN AUTO ALIGN AUTO *Avg Hold o dB	e: RMS : 10/10 M	04:12:07 PH Jan 10; 2 TRACE [] 2 3 4 TYPE [] 2 3 4 TYPE [] 2 3 4 TYP
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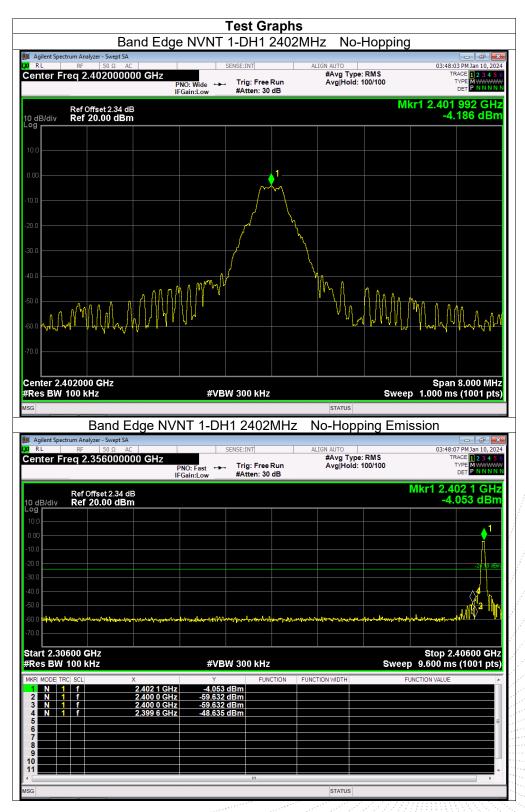


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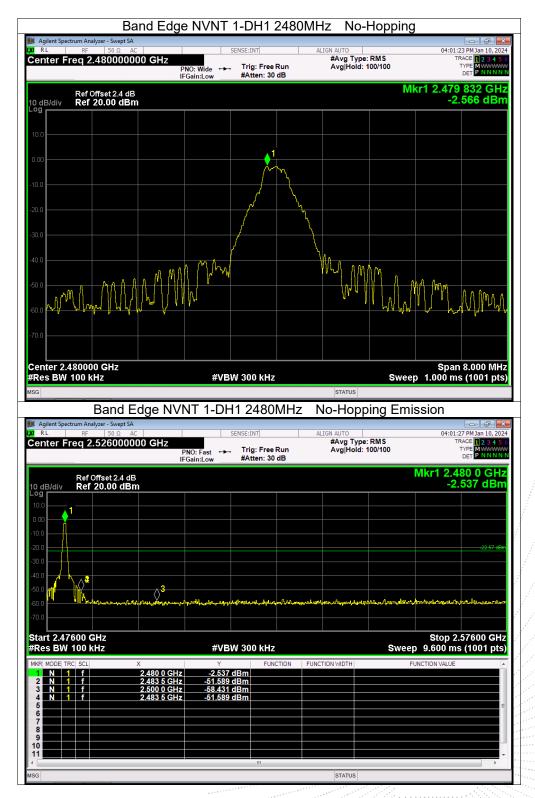


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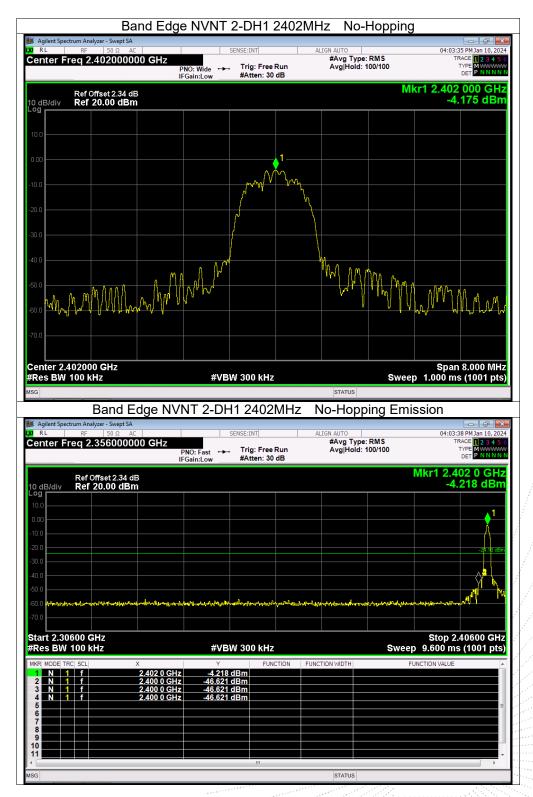




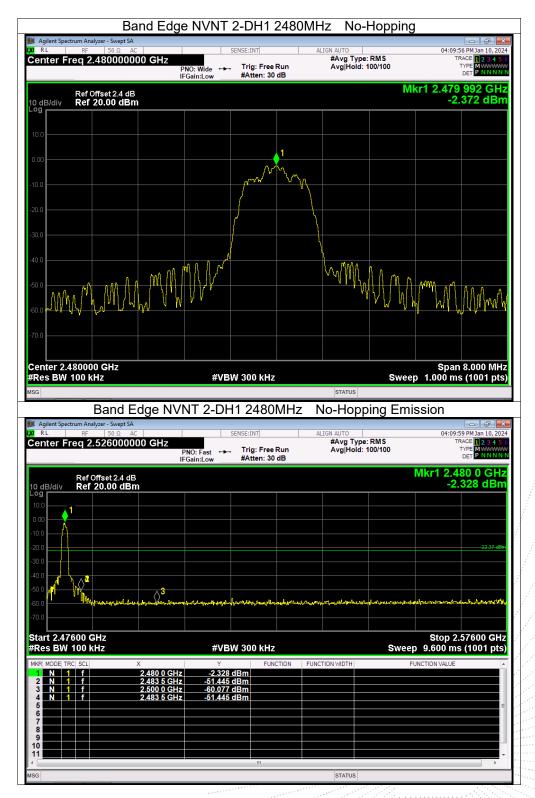








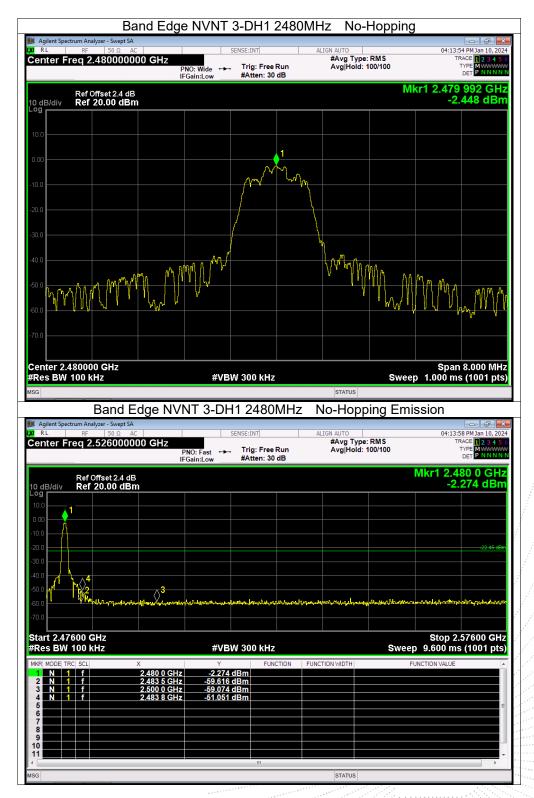




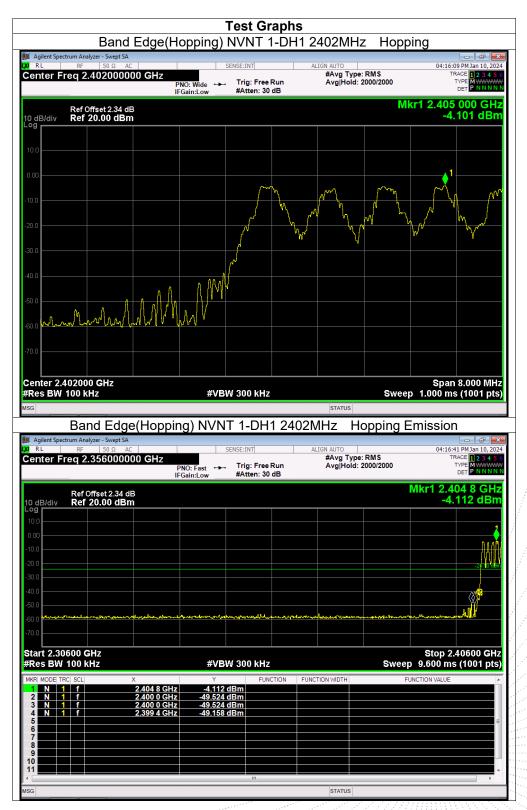












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10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 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 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.83	Pass
NVNT	1-DH1	2441	0.848	Pass
NVNT	1-DH1	2480	0.822	Pass
NVNT	2-DH1	2402	1.251	Pass
NVNT	2-DH1	2441	1.215	Pass
NVNT	2-DH1	2480	1.242	Pass
NVNT	3-DH1	2402	1.21	Pass
NVNT	3-DH1	2441	1.205	Pass
NVNT	3-DH1	2480	1.196	Pass























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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

11.2 Limit

	FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	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.

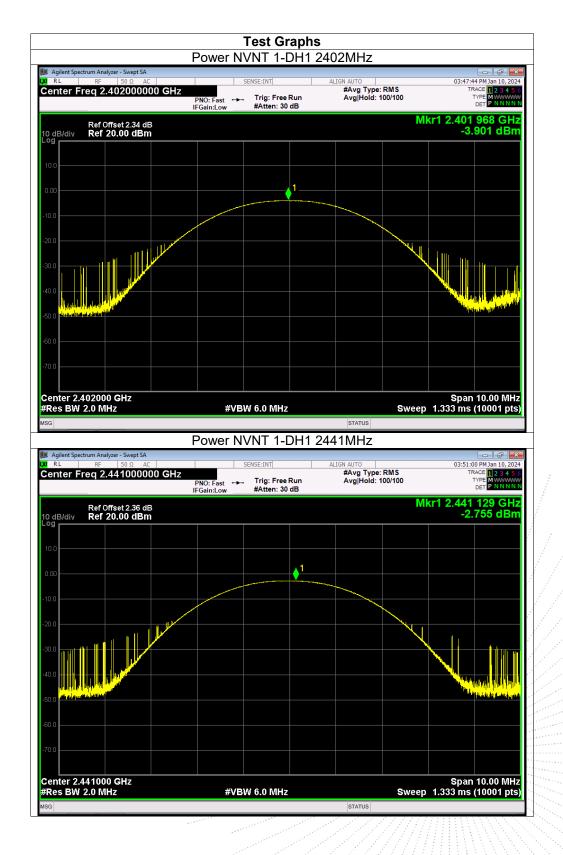
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.4 Test Result

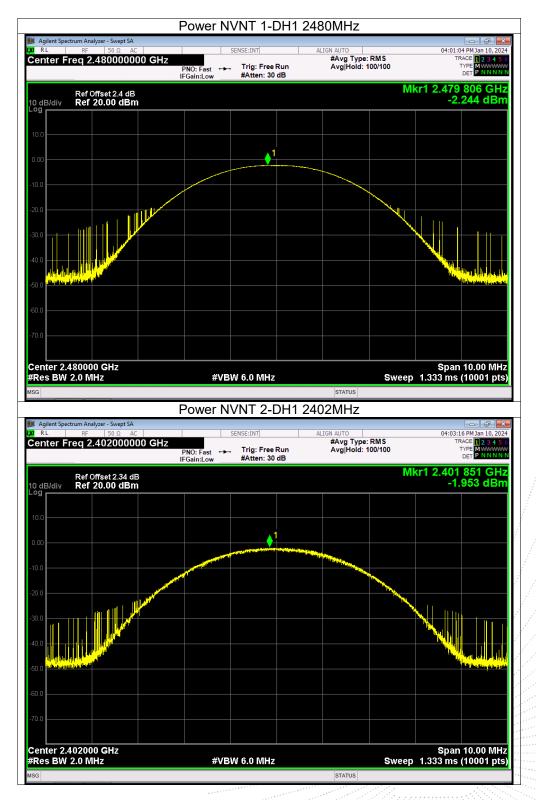
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-3.9	21	Pass
NVNT	1-DH1	2441	-2.76	21	Pass
NVNT	1-DH1	2480	-2.24	21	Pass
NVNT	2-DH1	2402	-1.95	21	Pass
NVNT	2-DH1	2441	-0.67	21	Pass
NVNT	2-DH1	2480	-0.05	21	Pass
NVNT	3-DH1	2402	-1.38	21	Pass
NVNT	3-DH1	2441	-0.21	21	Pass
NVNT	3-DH1		0.35	21	Pass



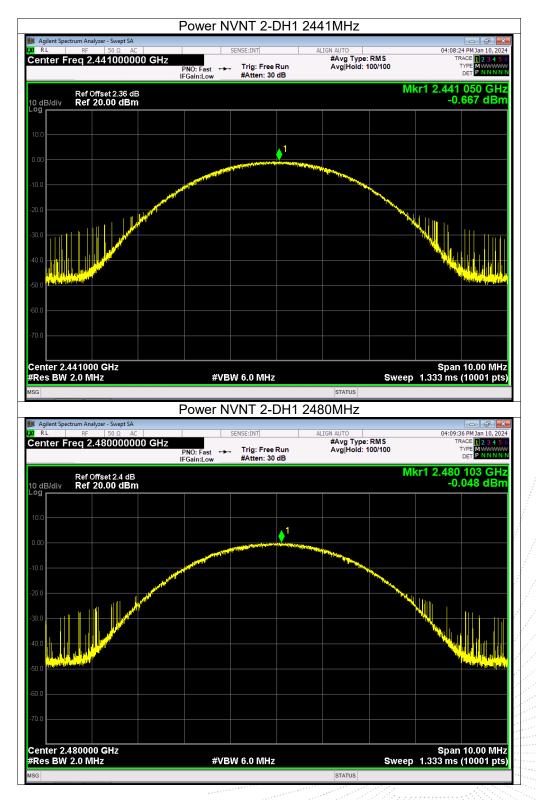




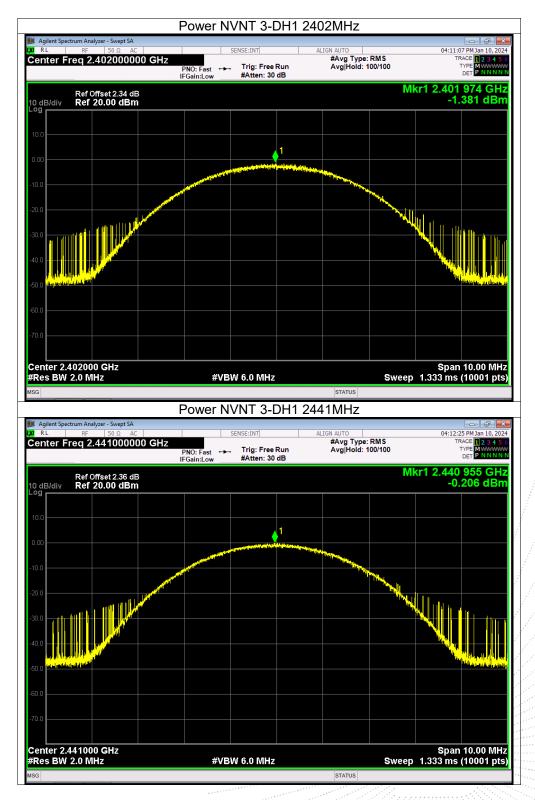




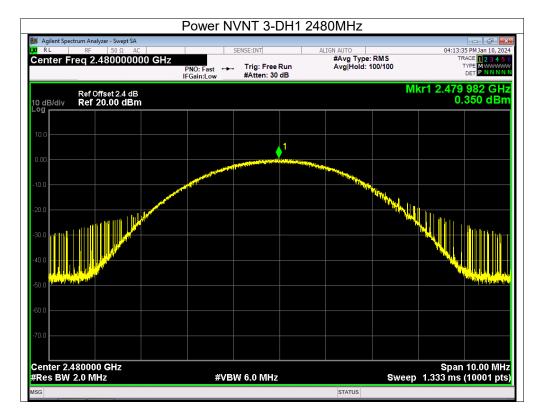












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12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



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.

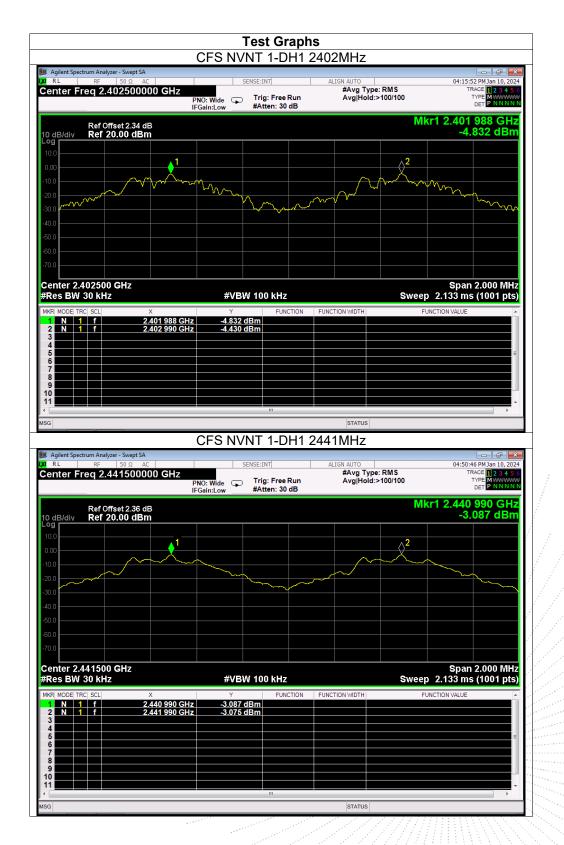
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.988	2402.99	1.002	0.553	Pass
NVNT	1-DH1	2440.99	2441.99	1	0.565	Pass
NVNT	1-DH1	2478.988	2479.988	1	0.548	Pass
NVNT	2-DH1	2401.992	2402.992	1	0.834	Pass
NVNT	2-DH1	2440.99	2441.988	0.998	0.81	Pass
NVNT	2-DH1	2478.984	2479.984	1	0.828	Pass
NVNT	3-DH1	2401.986	2402.994	1.008	0.807	Pass
NVNT	3-DH1	2440.99	2441.988	0.998	0.803	Pass
NVNT	3-DH1	2478.992	2479.986	0.994	0.797	Pass

12.4 Test Result









	ot SA				- ¢
RL RF 50 Ω enter Freq 2.47950		SENSE:INT	ALIGN AUTO #Avg Type: R	MS TI	22 PM Jan 10, 203 RACE <mark>1 2 3 4 5</mark>
ontor 110q 2.47950	PNO: N IFGain	Wide Trig: Free Run		0/100	
		Low #raten: oo ub		Mkr1 2.478	
Ref Offset 2.4 0 dB/div Ref 20.00 c	ldB J B m			-2.	660 dBn
og 10.0					
0.00	1			2	
10.0	min		- m	Manna	
20.0	\	m.	~~~~	a . May	h
30.0		man and a second	·		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
40.0					
50.0					
60.0					
70.0					
enter 2.479500 GHz				Span	2.000 MH
Res BW 30 kHz		#VBW 100 kHz		Sweep 2.133 ms	s (1001 pts
	× 2.478 988 GHz	Y FUNCTION -2.660 dBm	N FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f	2.479 988 GHz	-2.698 dBm			
3 4					
5 6					
7 8					
9					
G			071710		
			STATUS		
A -ilant Construct Anthony Course		S NVNT 2-DH			
Agilent Spectrum Analyzer - Swep RL RF 50 Ω	AC AC	S NVNT 2-DH	1 2402MHz	04:23:-	43 PM Jan 10, 202
	AC AC	SENSE:INT	1 2402MHz	MS TI	43 PM Jan 10, 202 RACE 1 2 3 4 5
RL RF 50 Ω	AC AC	SENSE:INT	1 2402MHz	MS TI 0/100	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE MWWW DET PNNN
RL RF 50 Ω enter Freq 2.40250 Ref Offset 2.3	AC AC AC PNO: V IFGain 34 dB	SENSE:INT	1 2402MHz	MS TI 0/100 Mkr1 2.401	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50Ω enter Freq 2.40250	AC AC AC PNO: V IFGain 34 dB	SENSE:INT	1 2402MHz	MS TI 0/100 Mkr1 2.401	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE MWWW DET PNNN
RL RF 50 Ω enter Freq 2.40250 Ref Offset 2.3 0 dB/div Ref 20.00 0	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS 0/100 Mkr1 2.401 -4.	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50 Ω enter Freq 2.40250 Ref Offset 2.3 0 dB/div Ref 20.00 d 9 4	AC AC AC PNO: V IFGain 34 dB	SENSE:INT	1 2402MHz	MS TI 0/100 Mkr1 2.401	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS 0/100 Mkr1 2.401 -4.	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS 0/100 Mkr1 2.401 -4.	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
Ref Offset 2.3 0 dB/div Ref 20.00 c	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS 0/100 Mkr1 2.401 -4.	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c 9	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS 0/100 Mkr1 2.401 -4.	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c 9	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS 0/100 Mkr1 2.401 -4.	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c 0 dB/d	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS 0/100 Mkr1 2.401 -4.	43 PM Jan 10, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P NNNN 992 GH
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c 90	AC PNO: PNO: IFGain BM BM	SENSE:INT	1 2402MHz	MS TI Mkr1 2.401 -4.	43 PM Jan 10, 2020 RACE 2 3 4 5 2 3 4 5 992 GH; 377 dBn
RL RF 50 Ω enter Freq 2.40250 Ref Offset 2.3 0 dB/div Ref 20.00 c 0 dB/	AC PNO: PNO: IFGain BM BM	Vide Trig: Free Run :Low #Atten: 30 dB	1 2402MHz	MS TI Mkr1 2.401 -4.	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c 9	AC PNO: PNO: PNO: IFGain A4 dB IBm 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Wide Trig: Free Run #Atten: 30 dB	1 2402MHz	Ms T Mkr1 2.401 -4. 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 Ref Offset2.3 0 dB/div Ref 20.00 c Ref 20.00 c 10 0	AC PNO: DEFENSION OF SA AC PNO: DEFENSION OF SA PNO: DEFENSION O	SENSE:INT Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #WBW 100 kHz #VBW 100 kHz FUNCTION	1 2402MHz	MS TI Mkr1 2.401 -4.	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn
RL RF 50 Ω enter Freq 2.40250 Ref Offset 2.3 Ref Offset 2.3 0 dB/div Ref 20.00 c Ref 20.00 c 10 0 Ref 20.00 c <td>AC PNO: AC PNO: IFGain A4 dB IBM 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>Vide Trig: Free Run #Atten: 30 dB</td> <td>1 2402MHz</td> <td>Ms T Mkr1 2.401 -4. 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn</td>	AC PNO: AC PNO: IFGain A4 dB IBM 1 1 1 1 1 1 1 1 1 1 1 1 1	Vide Trig: Free Run #Atten: 30 dB	1 2402MHz	Ms T Mkr1 2.401 -4. 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn
RL RF 50 Q enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c 9	AC PNO: DEFENSION OF SA AC PNO: DEFENSION OF SA PNO: DEFENSION O	SENSE:INT Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #WBW 100 kHz #VBW 100 kHz FUNCTION	1 2402MHz	Ms T Mkr1 2.401 -4. 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn
RL RF 50 Ω enter Freq 2.40250 Ref Offset2.3 0 dB/div Ref 20.00 c 00	AC PNO: DEFENSION OF SA AC PNO: DEFENSION OF SA PNO: DEFENSION O	SENSE:INT Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #WBW 100 kHz #VBW 100 kHz FUNCTION	1 2402MHz	Ms T Mkr1 2.401 -4. 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn
RL RF 50 Ω enter Freq 2.40250 Ref Offset 2.3 0 0 dB/div Ref 20.00 c 0 10 0 I 1 10 1 I 1 1 1 I 2 N 1 3 I 1 4 I 1 5 I I 7 I 1	AC PNO: DEFENSION OF SA AC PNO: DEFENSION OF SA PNO: DEFENSION O	SENSE:INT Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #WBW 100 kHz #VBW 100 kHz FUNCTION	1 2402MHz	Ms T Mkr1 2.401 -4. 2 2 -4. -4. -5. Span Sweep 2.133 ms	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn
RL RF 50 Ω enter Freq 2.40250 Ref Offset 2.3 0 dB/div Ref 20.00 c 0 dB/	AC PNO: DEFENSION OF SA AC PNO: DEFENSION OF SA PNO: DEFENSION O	SENSE:INT Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #WBW 100 kHz #VBW 100 kHz FUNCTION	1 2402MHz	Ms T Mkr1 2.401 -4. 2 2 -4. -4. -5. Span Sweep 2.133 ms	32PM Jan 10, 207 RACE 12 3 4 5 DET P NNNN 992 GH: 377 dBn

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PNO: Wide Trig: Fre IFGain:Low #Atten: :		: RMS 100/100 Mkr1 2.44	26:35 PM Jan 10, 202 TRACE 1 2 3 4 5 TYPE WWWW DET P NNNN 10 990 GH: 3.200 dBn
in Jalli-Low workers		-	0 990 GH
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			0.200 0.01
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<b>2</b>	
	\land		
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
#VBW 100 kH	lz		an 2.000 MH ns (1001 pts
Y FU			
Hz -3.200 dBm Hz -3.187 dBm			
			4
	STATUS		
CFS NVNT 2-I	DH1 2480MHz		
SENSE:INT	ALIGN AUTO		46:30 PM Jan 10, 20 TRACE 1 2 3 4 5
PNO: Wide Trig: Fre	e Run Avg Hold:>	100/100	
		Mkr1 2.47	'8 984 GH 2.582 dBn
$\sim$			~~~~
#\/D\\\{ 400 \/			an 2.000 MH
		_	
Hz -2.582 dBm			
	Y       FI         -3.200 dBm	Hz 3.200 dBm Hz 3.187 dBm Hz 3.187 dBm IFGain:Low Trig: Free Run IFGain:Low Trig: Free Run #Atten: 30 dB #VBW 100 kHz #VBW 100 kHz	#VBW 100 kHz       Sweep 2.133 r         Y       FUNCTION       FUNCTION WIDTH       FUNCTION VALU         Hz       3.200 dBm       FUNCTION       FUNCTION WIDTH       FUNCTION VALU         Hz       3.187 dBm       Image: Status       Function       Image: Status         CFS NVNT 2-DH1 2480MHz         CFS NVNT 2-DH1 2480MHz         PNO: Wide       Trig: Free Run       #Avg Type: RMS         PNO: Wide       Trig: Free Run       #Avg Type: RMS         Y       Trig: Free Run       Avg Hold:>100/100         #Ktten: 30 dB       Mkr1 2.47         G       Image: Status       Status         Y       Function KLZ       Function KLZ



Agilent Spectrum Analyzer - S RL RF 5	Swept SA 0 Ω AC	SENSE:INT	ALIGN AUTO		04:34:04 PM Jan 10, 20
enter Freq 2.402	500000 GHz	: Wide 🕞 Trig: Free	#Avg Typ Run Avg Hold		TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
		ain:Low #Atten: 30	) dB	Mkr	1 2.401 986 GH
Ref Offset dB/div Ref 20.0					-5.746 dBn
og 0.0					
).00	¹			2 ²	
0.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mon	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man man	mm
0.0					
0.0					
0.0					
enter 2.402500 GH Res BW 30 kHz	IZ	#VBW 100 kHz	2	Sweep	Span 2.000 MH 2.133 ms (1001 pts
KR MODE TRC SCL	× 2.401 986 GHz	Y FUN -5.746 dBm	ICTION FUNCTION WIDTH	FUN	CTION VALUE
2 N 1 f	2.402 994 GHz	-4.517 dBm			
4					
6 7					
9					
0					
G			STATUS		4
	L L	FS NVNT 3-D	)H1 2441MHz		
Agilent Spectrum Analyzer - S	Swept SA		0H1 2441MHz		
RL RF 5	Swept SA 0 Ω AC <b>500000 GHz</b>	SENSE:INT	ALIGN AUTO	e: RMS	04:35:52 PM Jan 10, 20
RL RF 5	Swept SA 0 Ω AC 500000 GHz PNC		ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
RL RF 5 enter Freq 2.441 Ref Offset	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE 1 2 3 4 5 TYPE MUMUU DET P NNNN 1 2.440 990 GH
RL RF SI enter Freq 2.441 Ref Offset 0 dB/div Ref 20.0	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE 1 2 3 4 5 TYPE MUMUU DET P NNNN 1 2.440 990 GH
RL RF S enter Freq 2.441 Ref Offset 0 dB/div Ref 20.0	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE 1 2 3 4 5 TYPE MUMUU DET P NNNN 1 2.440 990 GH
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           D dB/div         Ref Offset         Ref 20.0           9         0.0         0.0           100         0.0         0.0	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE II 2:34 S TYPE MOUNT DET PNNNN 1 2:440 990 GH -3.319 dBr
RL RF 5 enter Freq 2.441 Ref Offset	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE 1 2 3 4 5 TYPE MUMUU DET P NNNN 1 2.440 990 GH
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           0 dB/div         Ref 20.0         Ref 20.0           0 0	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE II 2:34 S TYPE MOUNT DET PNNNN 1 2:440 990 GH -3.319 dBr
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           0 dB/div         Ref 20.0         Ref 20.0           0.0             0.0             0.0             0.0             0.0             0.0             0.0             0.0	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE 12 34 5 TYPE M MININ 0ET P NINN 1 2.440 990 GH -3.319 dBn
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           0 dB/div         Ref 20.0         Ref 20.0           0 0	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE [] 2: 34 5 TYPE MUMOUNT DET PNNNN 1 2:440 990 GH -3.319 dBn
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           odB/div         Ref 20.0         Ref 20.0           0.0	Swept SA 0 Ω AC 5000000 GHz PNC IFGa 2.36 dB	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:35:52 PM Jan 10, 20 TRACE II 2:34 S TYPE MOUNT DET PNNNN 1 2:440 990 GH -3.319 dBr
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           0 dB/div         Ref 20.0         Ref 20.0           0 0         0         0           0 0         0         0           0 0         0         0           0 0         0         0           0 0         0         0           0 0         0         0           0 0         0         0           0 0         0         0           0 0         0         0           0 0         0         0	Swept SA 0.0. AC       500000 GHz     PNC IFGa 2.36 dB 0 dBm	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30	ALIGN AUTO #Avg Typ Run Avg Hold	:>100/100	04:33:52 PM Jan 10, 20 TRACE I 2 3 4 3 TYPE NORTH AND A STREAM OF THE
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           dB/div         Ref 20.0         Ref 20.0           00	Swept SA 0 Ω AC   PNC FGd 2.36 dB 0 dBm 1 1 1 1 1 1 1	SENSE:INT	ALIGN AUTO #Avg Typ Run Avg Hold dB	s>100/100	C4:35:52 PM Jan 10, 20 TRACE I 2 3 4 5 TYPE MANNA CET P MANNA CET
RL         RF         SI           enter Freq 2.441         Ref Offset         SI           0 dB/div         Ref 20.0         SI           0 0         SI	Swept SA 9 Ω AC 500000 GHz PNC IFGa 2.36 dB 0 dBm 1 1 1 1 2.440 990 GHz	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30 #VBW 100 kHz Y FUN -3.319 dBm	ALIGN AUTO #Avg Typ Run Avg Hold dB	s>100/100	04:35:52 PM Jan 10, 20 TRACE II 2 3 4 5 TYPE MUMM 0 ET PMMM 1 2.440 990 GH -3.319 dBn -3.319 dBn -3.319 dBn -3.319 dBn -3.319 dBn -3.319 dBn
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           0 dB/div         Ref 20.0         Ref 20.0           Ref 20.0         Ref 20.0         Ref 20.0           Ref 20.0         Ref 20.0         Ref 20.0	Swept SA 0.2 AC 500000 GHz PNC IFGa 2.36 dB 0 dBm 1 1 1 1 1 2 X	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30	ALIGN AUTO #Avg Typ Run Avg Hold dB	s>100/100	C4:33:52 PM Jan 10, 20 TRACE I 2 2 4 3 TYPE NUMBER CET PHILL 1 2.440 990 GH -3.319 dBn -3.319 dBn -4.100 GH -4.100 MH 2.133 ms (1001 pts
RL         Ref         Si           enter Freq 2.441         Ref Offset         Ref Offset           0 dB/div         Ref 20.0         Ref 20.0           0 dB/div         Ref 20.0         Ref 20.0	Swept SA 9 Ω AC 500000 GHz PNC IFGa 2.36 dB 0 dBm 1 1 1 1 2.440 990 GHz	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30 #VBW 100 kHz Y FUN -3.319 dBm	ALIGN AUTO #Avg Typ Run Avg Hold dB	s>100/100	C4:33:52 PM Jan 10, 20 TRACE I 2 2 4 3 TYPE NUMBER CET PHILL 1 2.440 990 GH -3.319 dBn -3.319 dBn -4.100 GH -4.100 MH 2.133 ms (1001 pts
RL         RF         SI           enter Freq 2.441         Ref Offset         Ref Offset           dB/div         Ref 20.0         Ref 0.0           00         Ref 0.0         Ref 0	Swept SA 9 Ω AC 500000 GHz PNC IFGa 2.36 dB 0 dBm 1 1 1 1 2.440 990 GHz	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30 #VBW 100 kHz Y FUN -3.319 dBm	ALIGN AUTO #Avg Typ Run Avg Hold dB	s>100/100	C4:35:52 PM Jan 10, 20 TRACE I 2 3 4 5 TYPE MANNA CET P MANNA CET
RL         RF         SI           enter Freq 2.441         Ref Offset         SI           0 dB/div         Ref 20.0         SI           0 0         SI         SI           0 0         SI         <	Swept SA 9 Ω AC 500000 GHz PNC IFGa 2.36 dB 0 dBm 1 1 1 1 2.440 990 GHz	SENSE:INT D: Wide Trig: Free ain:Low #Atten: 30 #VBW 100 kHz Y FUN -3.319 dBm	ALIGN AUTO #Avg Typ Run Avg Hold dB	s>100/100	C4:35:52 PM Jan 10, 20 TRACE I 2 3 4 5 TYPE MANNA CET P MANNA CET



	CFS NVNT 3-DH1 2	480MHz	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC Center Freq 2.479500000 GHz	PNO: Wide IFGain:Low #Atten: 30 dB	ALIGN AUTO #Avg Type: RMS Avg[Hold:>100/100	04:39:47 PM Jan 10, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
Ref Offset 2.4 dB 10 dB/div Ref 20.00 dBm		Mkr	1 2.478 992 GHz -3.473 dBm
Log 10.0 0.00 -10.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-20.0			
-50.0			
Center 2.479500 GHz #Res BW 30 kHz	#VBW 100 kHz	Sweep	Span 2.000 MH 2.133 ms (1001 pts
MKR         MODE         TRC         SCL         X           1         N         1         f         2.478         992         G           2         N         1         f         2.479         986         G           3         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4		FUNCTION WIDTH FUN	CTION VALUE
5 6 7 8 9 10			
		STATUS	•

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## 13. Number Of Hopping Frequency

### 13.1 Block Diagram Of Test Setup



### 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.

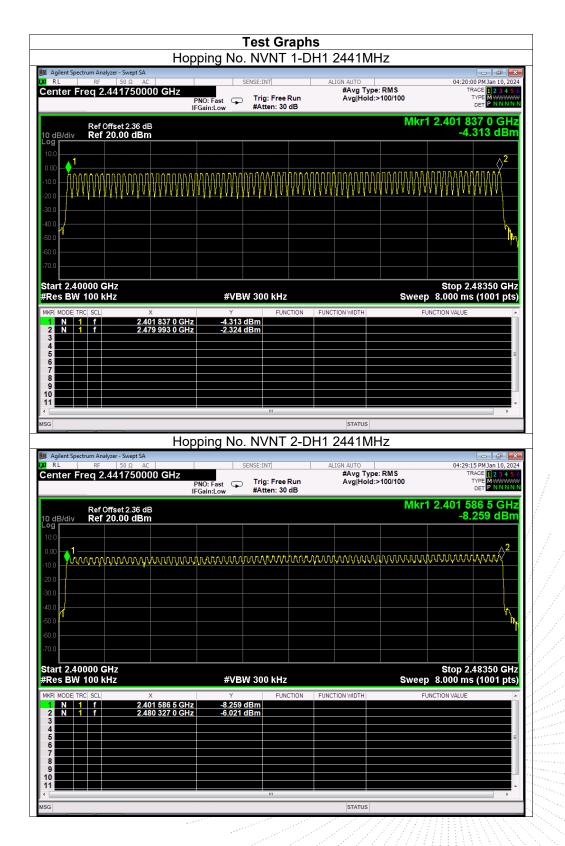
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

### 13.4 Test Result

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass









🕻 Agilent Spe	ctrum Analyze		opping No.		DH1 2441N	11 12	
RL	RF	50 Ω AC 1750000 GHz	S	ENSE:INT	ALIGN AUTO	pe: RMS	04:37:53 PM Jan 10, 20 TRACE <b>1 2 3 4 5</b>
enter F	req 2.44	1750000 GHZ	PNO: Fast 😱 IFGain:Low	Trig: Free Run #Atten: 30 dB		d:>100/100	
0 dB/div		set 2.36 dB .00 dBm				Mkr1	2.401 837 0 GH -4.326 dBr
un <mark>1 1</mark>							^2
	WWWW		$\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{W}$	WWWWWW	ለለለለስስለለለስ	$\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}$	ᡣᡅ᠕᠕᠕᠕᠕
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tart 2 4	0000 GH	7					Stop 2.48350 GH
	100 kHz		#VBV	V 300 kHz		Sweep	8.000 ms (1001 pt
KR MODE T		Х	Y	FUNCTION	FUNCTION WIDTH	FU	NCTION VALUE
	1 f 1 f	2.401 837 0 G 2.480 494 0 G					
2 N		2.400 404 0 0	112 -1.140 (				
3							
2 N 3 4 5							
3 4 5 6							
3 4 5 6 7 8							
3 4 5 6 7 7 8 9 9							
3 4 5 6 7							

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### 14. Dwell Time

### 14.1 Block Diagram Of Test Setup



### 14.2 Limit

≤0.4 Second

#### 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).

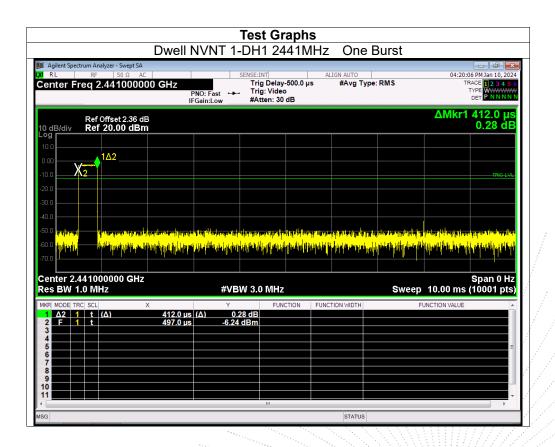
#### 14.4 Test Result

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 DH3:1600/79/2*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	0.412	0.132	0.4	Pass
NVNT	1-DH3	2441	1.668	0.267	0.4	Pass
NVNT	1-DH5	2441	2.916	0.311	0.4	Pass
NVNT	2-DH1	2441	0.422	0.135	0.4	Pass
NVNT	2-DH3	2441	1.674	0.268	0.4	Pass
NVNT	2-DH5	2441	2.922	0.312	0.4	Pass
NVNT	3-DH1	2441	0.424	0.136	0.4	Pass
NVNT	3-DH3	2441	1.674	0.268	0.4	Pass
NVNT	3-DH5	2441	2.925	0.312	0.4	Pass



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	Dwell N	NVNT 1-	DH3 24	41MHZ	One I	Burst		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Genter Freq 2.44100000	F	SPNO: Fast ↔	ENSE:INT Trig Delay- Trig: Video #Atten: 30	500.0 µs	IGN AUTO #Avg Type	e: RMS	т	57 PM Jan 10, 20 RACE 1 2 3 4 TYPE W
Ref Offset 2.36 dB 0 dB/div <b>Ref 20.00 dBm</b> 9g							ΔMkr1	1.668 m -1.60 d
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30.0								
10.0								
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enter 2.441000000 GHz	ister (her blev beregen) Palitike (hered) (here Palitike (hered) (hered)	i finita i M _a tan inda	V 3.0 MHz	n i ne have prop 1, d 1, d	n an fair an fa Tha fair an fair	in the strong with a	10.00 ms	Span 0 H
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0.0         μημη           0.0         μημη           enter 2.441000000 GHz           es BW 1.0 MHz           KRI MODE TRCI SCL           2         F           2         F           2         F           4	1.668 ms	#Ισ[1][[[[[[]]]] #VBV (Δ) -1.6(	V 3.0 MHz	i.eikinikindi	^{ato} la <mark>(199</mark> 4).	Sweep	10.00 ms	Span 0 H
0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td>1.668 ms</td> <td>#Ισ[1][[[[[[]]]] #VBV (Δ) -1.6(</td> <td>V 3.0 MHz</td> <td>i.eikinikindi</td> <td>^{ato}la <mark>(199</mark>4).</td> <td>Sweep</td> <td>10.00 ms</td> <td>Span 0 H</td>	1.668 ms	#Ισ[1][[[[[[]]]] #VBV (Δ) -1.6(	V 3.0 MHz	i.eikinikindi	^{ato} la <mark>(199</mark> 4).	Sweep	10.00 ms	Span 0 H
0.0         μ+μ           0.0         μ+μ           enter 2.44 1000000 GHz           es BW 1.0 MHz           KR         MODE TRC SCL           2         F           1         Δ2           2         F           3           4           5           6           7           8           9	1.668 ms	#Ισ[1][[[[[[]]]] #VBV (Δ) -1.6(	V 3.0 MHz	i.eikinikindi	^{ato} la <mark>(199</mark> 4).	Sweep	10.00 ms	Span 0 H
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enter 2.441000000 GHz es BW 1.0 MHz		dy and the state of the second se		n pipinin ping	Span 0 H
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	Dwell N∖	/NT 2-DH	1 2441M	Hz One	Burst		
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Agilent Spectrum Analyzer - Swept SA						
RL RF 50 Ω AC Center Freq 2.44100000	00 GHz	NO East Tr	ig Delay-500.0 μ ig: Video \tten: 30 dΒ	ALIGN AUTO s #Avg Ty	pe: RMS	04:42:32 PM Jan 10, 20 TRACE 1 2 3 4 TYPE WWWW DET P N N N
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All of the second se	× 1.674 ms (	#VBW 3.	O MHz	<mark>hilipat perpensi dan berti di</mark>	Sweep	10.00 ms (10001 pt
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RL         RF         50.0. AC         SENSE:INT         ALIGN AUTO         0443:18 PM Jan 1           Center Freq 2.441000000 GHz         PNO: Fast IFGain:Low         Trig Delay-500.0 µs         #Avg Type: RMS         TRACE 12         TRACE 12           Ref Offset 2.36 dB         ALIGN AUTO         0443:18 PM Jan 1         Trig: Video		Dwell NVNT 2-DF	15 2441MHz	One Burst	
Ref 20.00 dBm       -1.53         0       B/div       Ref 20.00 dBm       -1.53         0	RL RF 50 Ω	AC SENSE 0000 GHz Tr PNO: Fast ++ Tr	ig Delay-500.0 μs # ig: Video		04:43:18 PM Jan 10, 2 TRACE 12:34 TYPE WWWW DET P NN N
$\frac{1}{1} = \frac{1}{1} + \frac{1}$	0 dB/div Ref 20.00 dl				∆Mkr1 2.922 m -1.53 d
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0.0     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11     11					TRIG L
CO         Market Instruction         Construction         Construction <td>0.0</td> <td></td> <td></td> <td></td> <td></td>	0.0				
ADDE         TR         WEW 3.0 MHz         Sweep         10.00 ms (10001           VR         MODE         TCC         XCL         XCL         Y         FUNCTION         FUNCTION WIDTH         FUNCTION VALUE           1         Δ2         1         t         (Δ)         -1.53 dB         FUNCTION         FUNCTION WIDTH         FUNCTION VALUE           2         F         1         t         365.0 µs         -14.94 dBm         FUNCTION         FUNCTION VALUE           3         1         FUNCTION         FUNCTION         FUNCTION         FUNCTION VALUE           4         F         F         F         FUNCTION         FUNCTION         FUNCTION VALUE           5         F         F         F         FUNCTION         FUNCTION         FUNCTION VALUE           6         F         F         F         FUNCTION         FUNCTION         FUNCTION VALUE           9         F         F         F         F         F         F         F           1         F         F         F         F         F         F         F					
Δ2       1       t       (Δ)       2.922 ms       (Δ)       -1.53 dB         2       F       1       t       365.0 µs       -14.94 dBm         3       -       -       -       -         4       -       -       -       -         5       -       -       -       -         6       -       -       -       -         9       -       -       -       -         1       -       -       -       -	0.0 <mark>pt ///</mark>				
2     F     1     t     365.0 µs     -14.94 dBm       4     4     4     4     4       5     4     4     4       6     4     4       7     4     4       8     4       9     4       1     4	0.0 <mark>4 11.</mark> 0.0 enter 2.441000000 GF		ahandania polisia di sala di s Internet di sala	<mark>faloparin (dallar popular polity and an</mark>	Span 0 H
5     6       6     6       7     8       8     8       9     6       0     6       1     8	0.0 4 4 enter 2.441000000 GH es BW 1.0 MHz	Hz #VBW 3.		Wpth/HappyHark	Span 0 H 10.00 ms (10001 pt
	0.0 μ/μ enter 2.441000000 GF es BW 1.0 MHz KR MODE TRC ScL 1 Δ2 1 t (Δ) 2 F 1 t	Hz #VBW 3.	O MHZ	Wpth/HappyHark	Span 0 H 10.00 ms (10001 pt
	0.0	Hz #VBW 3.	O MHZ	Wpth/HappyHark	Span 0 H 10.00 ms (10001 pt
m	$ \begin{array}{c} \text{0.0} & \begin{array}{c} & \begin{array}{c} & \begin{array}{c} & \begin{array}{c} & \end{array} \\ \text{enter 2.441000000 G} \\ \text{es BW 1.0 MHz} \\ \text{KR MODE TRC SCL} \\ \hline 1 & \begin{array}{c} \begin{array}{c} \\ \end{array} \\ 1 & \begin{array}{c} \end{array} \\ 2 & \begin{array}{c} \\ \end{array} \\ 1 & \begin{array}{c} \end{array} \\ 1 & \end{array} \\ \end{array}$	Hz #VBW 3.	O MHZ	Wpth/HappyHark	Span 0 H 10.00 ms (10001 pt
G STATUS	0.0 411 enter 2.441000000 GF es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4 5 5 7 4 8 9 9 0 4 1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	Hz #VBW 3.	O MHZ	Wpth/HappyHark	Span 0 H 10.00 ms (10001 pt

		Dwell N	AVNT 3	-DH1	24411	/IHZ (	Dne B	uisi		
Agilent Spectrum Ani RL RF Center Freq 2	50 Ω AC	Р	NO: Fast ↔ Gain:Low	. Trig: \	elay-500.0   /ideo :: 30 dB	ALIGN A µs #A	UTO Vg Type:	RMS	04:	37:59 PM Jan 10, 20 TRACE 1 2 3 4 TYPE WWWW DET P NNN
	Offset 2.36 dB 20.00 dBm								ΔMk	r1 424.0 µ 2.65 d
10.0 0.00	1∆2									
10.0 X2										TRIG L
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ю.0 60.0 <mark>таруст с</mark>	anau da kara da da kara kara kara kara kara									<mark>Jahran serre presentationes presentationes</mark>
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10 0 10 0	1440000 GHz 000000 GHz Hz	⁴ ,1 ¹ ,11, ¹² 1, ¹ 0, ¹ 0, ⁴ 1,111,1	₩ <mark>₩₩₩₩₩₩₩₩₩</mark> #VE ¥	3W 3.0 N			Apple Alberto	Sweet		Span 0 H s (10001 pt
enter 2.44100	1440000 GHz 000000 GHz Hz	<mark>4.19</mark> .199 ¹² 919-19919-1	# <b>νήγιψη ήγιμ</b> #VE (Δ) 2			lin de de de de la companya de la co La companya de la comp	Apple Alberto	Sweet	0 10.00 m	Span 0 H s (10001 pt
000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000	1440000 GHz 000000 GHz Hz	424.0 µs	# <b>νήγιψη ήγιμ</b> #VE (Δ) 2	3.0 N		lin de de de de la companya de la co La companya de la comp	Apple Alberto	Sweet	0 10.00 m	Span 0 H s (10001 pt
000     000     000     000     000     000     000       000     000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000     000       000     000     000     000	1440000 GHz 000000 GHz Hz	424.0 µs	# <b>νήγιψη ήγιμ</b> #VE (Δ) 2	3.0 N		lin de de de de la companya de la co La companya de la comp	Apple Alberto	Sweet	0 10.00 m	Span 0 H s (10001 pt
iiiiuiui         iiiiuiui           center 2.44100         iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	1440000 GHz 000000 GHz Hz	424.0 µs	# <b>νήγιψη ήγιμ</b> #VE (Δ) 2	3.0 N		lin de de de de la companya de la co La companya de la comp	Apple Alberto	Sweet	0 10.00 m	Span 0 H s (10001 pt
000 000 000 000 000 000 000 000	1440000 GHz 000000 GHz Hz	424.0 µs	# <b>νήγιψη ήγιμ</b> #VE (Δ) 2	3.0 N		lin de de de de la companya de la co La companya de la comp	Apple Alberto	Sweet	0 10.00 m	Span 0 H s (10001 pt
100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100 <td>1440000 GHz 000000 GHz Hz</td> <td>424.0 µs</td> <td>#<b>νήγιψη ήγιμ</b> #VE (Δ) 2</td> <td>3.0 N</td> <td></td> <td>lin de de de de la companya de la co La companya de la comp</td> <td>Apple Alberto</td> <td>Sweet</td> <td>0 10.00 m</td> <td>Span 0 H s (10001 pt</td>	1440000 GHz 000000 GHz Hz	424.0 µs	# <b>νήγιψη ήγιμ</b> #VE (Δ) 2	3.0 N		lin de de de de la companya de la co La companya de la comp	Apple Alberto	Sweet	0 10.00 m	Span 0 H s (10001 pt
0.0         United ar           0         United ar           0         United ar	1440000 GHz 000000 GHz Hz	424.0 µs	# <b>νήγιψη ήγιμ</b> #VE (Δ) 2	3.0 N			Apple Alberto	Sweet	0 10.00 m	Span 0 H s (10001 pt

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	Dwell I	NVNT 3-D	0H3 24411	VILL ONE	e Burst	
Agilent Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.4410000	00 GHz	PNO East ↔	ISE:INT Trig Delay-500.0 Trig: Video #Atten: 30 dB	ALIGN AUTO µs #Avg Ty	/pe: RMS	04:44:11 PMJan 10, 20 TRACE 1 2 3 4 TYPE WWWW DET P NNN
Ref Offset 2.36 d D dB/div Ref 20.00 dBn						ΔMkr1 1.674 m -3.29 d
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	01∆2					TRIG L'
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0.0	and interest inspire	n a forming any providence of the second	n filme menoren provinsieren Antonio de la contractione de la co			
	of the controls	ala taliati i sala materi		in the second		
enter 2.441000000 GHz			3.0 MHz	a nana <mark>ana ana a</mark> na an		Span 0 F
	x	#VBW	3.0 MHz	FUNCTION WIDTH	Sweep	Span 0 H 10.00 ms (10001 pt JNCTION VALUE
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enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL 1 A2 1 t (A) 2 F 1 t	× 1.674 ms	#VBW	3.0 MHz		Sweep	Span 0 <del> </del> 10.00 ms (10001 pt
enter 2.441000000 GHz es BW 1.0 MHz KRI MODE  TRC  SCL  1 Δ2 1 t (Δ) 2 F 1 t 3 4 5 5 6 6 7 7 8 9 9	× 1.674 ms	#VBW	3.0 MHz		Sweep	Span 0 <del> </del> 10.00 ms (10001 pt
enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4 5 6 6 7 8 9	× 1.674 ms	#VBW	3.0 MHz		Sweep	Span 0 <del> </del> 10.00 ms (10001 pt

	Dwell NV	/NT 3-DH	5 2441N	1Hz One	e Burst		
Agilent Spectrum Analyzer - Swept SA R L RF 50 Ω AC		SENSE:I		ALIGN AUTO			9 PM Jan 10, 2
enter Freq 2.44100000		Fast Tric	g Delay-500.0 μ g: Video tten: 30 dΒ	ıs #Avg T	ype: RMS	TR	ACE 1234
Ref Offset 2.36 dB dB/div Ref 20.00 dBm						ΔMkr1 :	2.925 m -3.05 d
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.00 X2		<b>™</b> 1∆2					
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			<mark>i di di mani da di bistana di bist Na seconda di bistana di</mark>	n and a state of the	align deeling all produces a	and a straight of the straight	(han daa)
enter 2.441000000 GHz es BW 1.0 MHz		#VBW 3.0	) MHz		Sweep	10.00 ms (	Span 0 H (10001 pt
KR MODE TRC SCL X							
		Y	FUNCTION	FUNCTION WIDTH	FI	JNCTION VALUE	
1 Δ2 1 t (Δ) 2 F 1 t	2.925 ms (Δ) 497.0 μs		FUNCTION	FUNCTION WIDTH	F	JNCTION VALUE	
1 Δ2 1 t (Δ) 2 F 1 t 3 4	2.925 ms (Δ)	-3.05 dB	FUNCTION	FUNCTION WIDTH	FI	JNCTION VALUE	
Δ2         1         t         (Δ)           2         F         1         t           3         -         -         -           4         -         -         -           5         -         -         -           6         -         -         -         -	2.925 ms (Δ)	-3.05 dB	FUNCTION	FUNCTION WIDTH	FI	JNCTION VALUE	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.925 ms (Δ)	-3.05 dB	FUNCTION	FUNCTION WIDTH	F	JNCTION VALUE	
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.925 ms (Δ)	-3.05 dB	FUNCTION	FUNCTION WIDTH	FI	INCTION VALUE	

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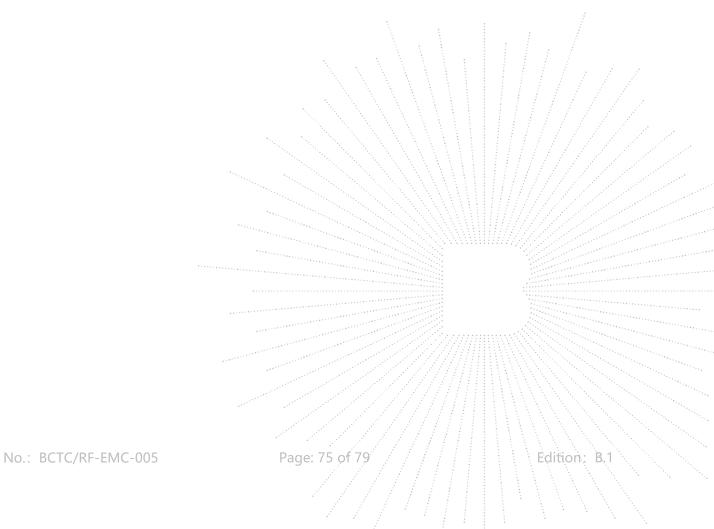
## 15. Antenna Requirement

#### 15.1 Limit

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.

### 15.2 Test Result

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





# 16. EUT Photographs

EUT Photo 1



#### EUT Photo 2





# 17. EUT Test Setup Photographs

## **Conducted Measurement 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 quality system of our laboratory is in accordance with ISO/IEC17025.

8. 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.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

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Website: http://www.chnbctc.com

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***** END *****

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