

TEST REPORT

Report No.: BCTC2303195869E

Applicant: Titan Company Limited

Product Name: Smart watch

Model/Type Ref.: 90172

Tested Date: 2023-03-01 to 2023-03-20

Issued Date: 2023-03-20

Shenzhen BCTC Testing Co., Ltd.



No.: BCTC/RF-EMC-005 Page 1 of 79

Edition: A.5



FCC ID: 2AK9F-90172

Product Name: Smart watch

Trademark: Titan

Model/Type Ref.: 90172

Prepared For: Titan Company Limited

Address: Integrity, #193, Veerasandra, Electronic City P.O., Off Hosur Main Road, Bangalore,

560100 India

Manufacturer: Shenzhen Kingwear Intelligent Technology Co., Ltd

Address: 21F, Block C, Building 9, Baoneng Tech-Park, Qingxiang Road 1st, Longhua New

District, Shenzhen, China

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: 2023-03-01

Sample tested Date: 2023-03-01 to 2023-03-20

Issue Date: 2023-03-20

Report No.: BCTC2303195869E

Test Standards: FCC Part15.247 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.

No.: BCTC/RF-EMC-005

Page 2 of 79

Edition: A.5



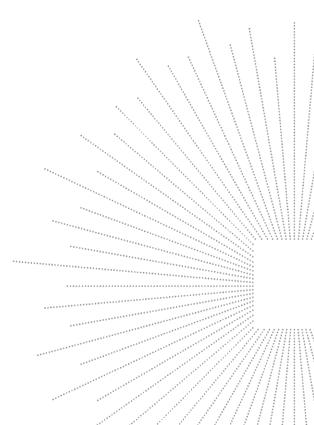
Table Of Content

Test	Report Declaration Page	
1.	Version	5
2.	Test Summary	6
3.	Measurement Uncertainty	7
4.	Product Information And Test Setup	8
4.1	Product Information	
4.2	Test Setup Configuration	8
4.4	Channel List	6
4.5	Test Mode	
4.6	Table Of Parameters Of Text Software Setting	9
5.	Test Facility And Test Instrument Used	10
5.1	Test Facility	
5.2	Test Instrument Used	
6.	Conducted Emissions	
6.1	Block Diagram Of Test Setup	
6.2	Limit	
6.3	Test Procedure	
6.4	EUT Operating Conditions	
6.5	Test Result	
7.	Radiated Emissions	
7.1	Block Diagram Of Test Setup	15
7.2	Limit	16
7.3	Test Procedure EUT Operating Conditions Test Result	1/
7.4	EUT Operating Conditions	16
7.5	Padiated Dand Emission Management and Dastricted Dands Of Operation	۱۱. اد
8. o 1	Radiated Band Emission Measurement And Restricted Bands Of Operation .	22
8.1 8.2	Block Diagram Of Test Setup. Limit Test Procedure EUT Operating Conditions Test Result. Conducted Emission	22
8.3	Toot Procedure	
8.4	EUT Operating Conditions	772
8.5	Test Result	7/2/
9.	Conducted Emission	25
9.1	Block Diagram Of Test Setup	Z.
	Limit	2.c
9.3	Test Procedure	21
9.4	Test Result	20
10.	20 DB Bandwidth	47
10.1	Block Diagram Of Test Setup	47
10.2	Limit Test Procedure Test Result. 20 DB Bandwidth. Block Diagram Of Test Setup. Limit Test Procedure Test Result. Maximum Peak Output Power. Block Diagram Of Test Setup.	47
10.3	Test Procedure	47
10.4	Test Result	47
11.	Maximum Peak Output Power	53
11.1	Block Diagram Of Test Setup	58
11.2	Limit	53



11.3	Test Procedure	. ეკ
11.4	Test Result	.53
12.	Hopping Channel Separation	.59
12.1	Block Diagram Of Test Setup	.59
12.2	Limit	.59
12.3	Test Procedure	. 59
12.4	Test Result	.59
13.	Number Of Hopping Frequency	.65
13.1	Block Diagram Of Test Setup	.65
13.2	Limit	.65
13.3	Test Procedure	.65
13.4	Test Result	.66
14.	Dwell Time	.68
14.1	Block Diagram Of Test Setup	.68
14.2	Limit	.68
14.3	Test Procedure	.68
14.4	Test Result	.69
15.	Antenna Requirement	.75
15.1	Limit	.75
15.2	Test Result	.75
16.	EUT Photographs	.76
17.	EUT Test Setup Photographs	.77

(Note: N/A Means Not Applicable)

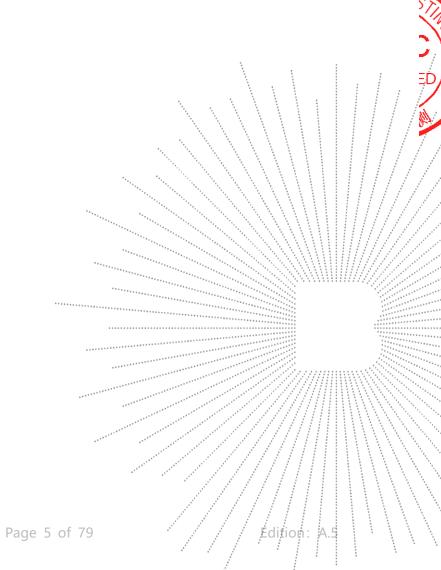


No.: BCTC/RF-EMC-005 Page 4 of 79



1. Version

Report No.	Issue Date	Description	Approved
BCTC2303195869E	2023-03-20	Original	Valid



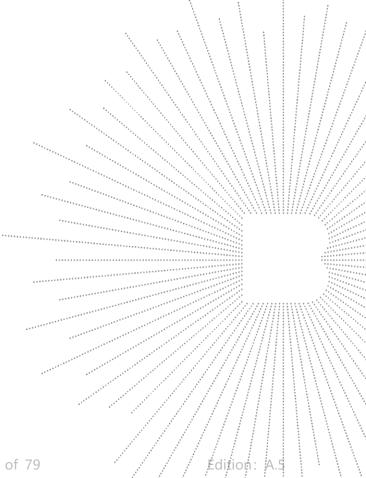
No.: BCTC/RF-EMC-005 Page 5 of



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 & §1 5.205	PASS
10	Antenna Requirement	15.203	PASS



No.: BCTC/RF-EMC-005 Page 6 of 79



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(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
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°C

No.: BCTC/RF-EMC-005 Page 7 of 79



4. Product Information And Test Setup

4.1 Product Information

Model/Type Ref.: 90172 Model differences: N/A

Operation Frequency: 2402-2480MHz

Hardware Version: N/A
Software Version: N/A

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

Number Of Channel 79CH

Antenna installation: FPC antenna

Antenna Gain: 3.45dBi

Ratings: USB: DC 5V, Battery: DC 3.8V

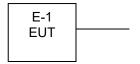
4.2 Test Setup Configuration

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	Smart watch	Titan	90172 N/A EUT
E-2	Adapter	N/A	BCTC001 N/A Auxiliary

Item	Shielded Type	Ferrite Core	Length
C-1	NO	NO	0.5M 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.

No.: BCTC/RF-EMC-005 Page 8 of 79 / / Édition: A.S



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.

	<u> </u>		1 1 1		
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	Charging(Conducted emission)				
5	Transmitting (Radiated emission)				

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	RTLBTAPP				
Frequency	2402 MHz	2441 MHz 2480 MHz			
Parameters	DEF	DEP //DEF /			

No.: BCTC/RF-EMC-005 Page 9 of 79

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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 Manufacturer Model# Serial# Last Cal. 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	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	1	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-RFC B		4	\	
Software	MAIWEI	MTS 8310		**************************************	, , , , , , , , , , , , , , , , , , , ,	

No.: BCTC/RF-EMC-005 Page 10 of 79

Edition: A.5



Radiated Emissions Test (966 Chamber01)							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023		
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023		
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023		
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023		
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023		
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023		
Amplifier	SKET	LAPA_01G18 G-45dB	\	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 Antenna(18G Hz-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	\		

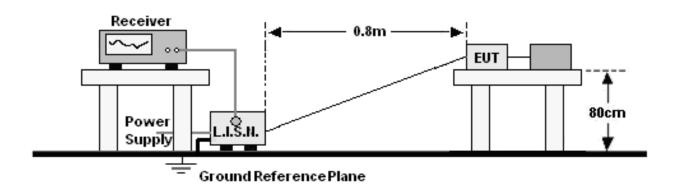
No.: BCTC/RF-EMC-005 Page 11 of 79

Edition: A.5



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
FREQUENCY (MI12)	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

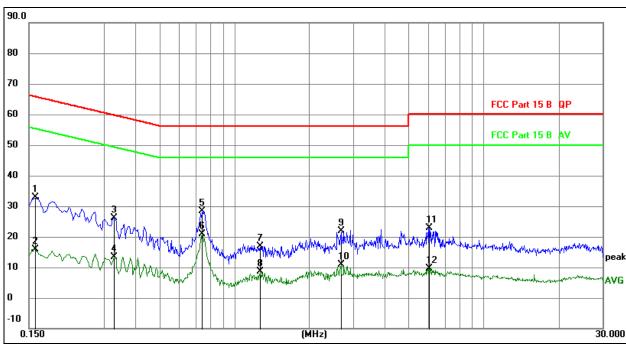
The EUT was configured for testing in a typical fashion (as a customer would normally use t)/ The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

No.: BCTC/RF-EMC-005 Page 12 of 79 // / Edition: A.5



6.5 Test Result

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



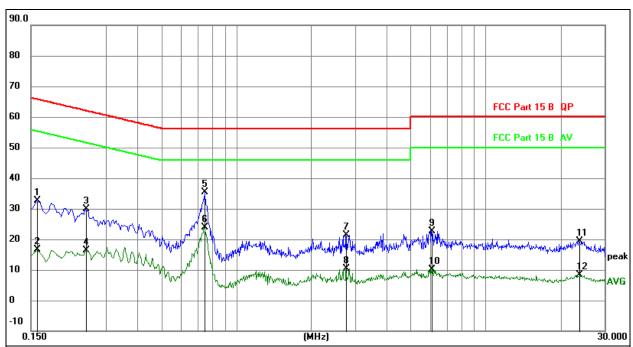
Remark:

- 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. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1582	13.09	19.69	32.78	65.56	-32.78	QP
2	0.1582	-3.90	19.69	15.79	55.56	-39.77	AVG
3	0.3286	6.33	19.77	26.10	59.49	-33.39	QP
4	0.3286	-6.30	19.77	13.47	49.49	-36.02	AVG
5	0.7430	8.67	19.74	28.41	56.00	-27.59	QP
6 *	0.7430	1.05	19.74	20.79	46.00	-25.21	AVG
7	1.2688	-2.91	19.79	16.88	56.00	-39.12	QP
8	1.2688	-11.11	19.79	8.68	46.00	-37.32	AVG
9	2.6783	1.93	19.95	21.88	56.00	-34.12	QP
10	2.6783	-8.99	19.95	10.96	46.00	-35.04	AVG
11	6.0562	2.75	20.15	22.90	60.00	-37.10	QP
12	6.0562	-10.42	20.15	9.73	50.00	-40.27	AVG



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



Remark:

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

- 4. Over= Measurement-Limit

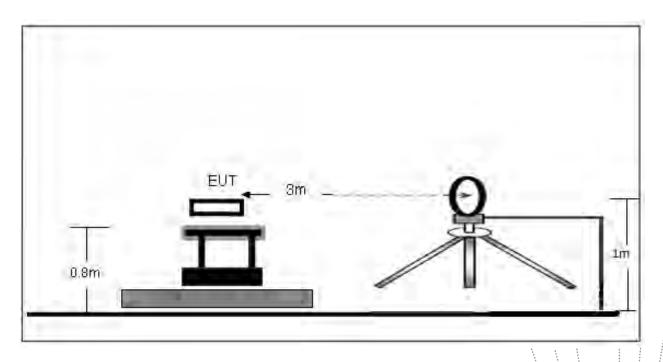
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detecto
1	0.1590	12.89	19.69	32.58	65.52	-32.94	QP
2	0.1590	-3.01	19.69	16.68	55.52	-38.84	AVG
3	0.2490	9.98	19.79	29.77	61.79	-32.02	QP
4	0.2490	-3.33	19.79	16.46	51.79	-35.33	AVG
5 *	0.7439	15.56	19.74	35.30	56.00	-20.70	QP
6	0.7439	4.17	19.74	23.91	46.00	-22.09	AVG
7	2.7554	1.47	19.96	21.43	56.00	-34.57	QP
8	2.7554	-9.63	19.96	10.33	46.00	-35.67	AVG
9	6.0855	2.51	20.16	22.67	60.00	-37.33	QP
10	6.0855	-10.05	20.16	10.11	50.00	-39.89	AVG
11	23.7480	-1.26	20.52	19.26	60.00	-40.74	QP
12	23.7480	-12.16	20.52	8.36	50.00	-41.64	AVG



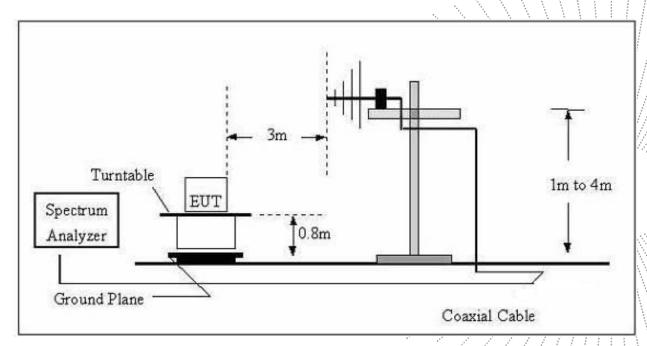
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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



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



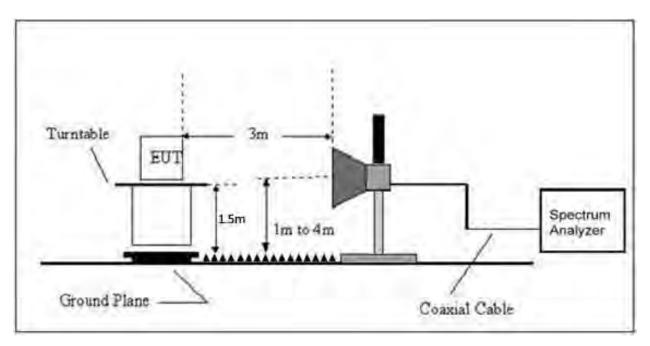
No.: BCTC/RF-EMC-005 Page 15 of 79 / / / Edition: A.

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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 15.205(a), then the 15.209(a) 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⁾

No.: BCTC/RF-EMC-005 Page 16 of 79 / / / /

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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 FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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 chamber. 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.



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 chamber. 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:	101 kPa	Test Voltage	DC 3.8V
Test Mode:	Mode 5	Polarization :	<u></u>

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

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);

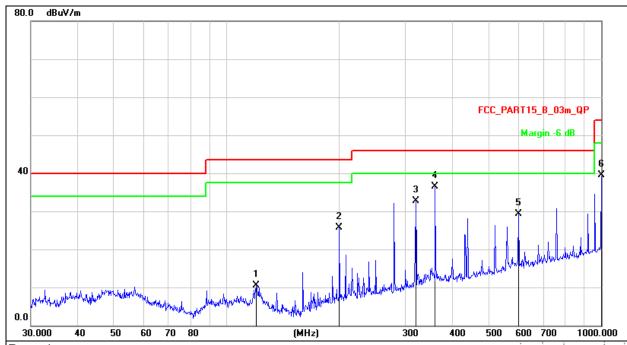
Limit line = specific limits(dBuv) + distance extrapolation factor.

60.,£70



Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Remark:	N/A



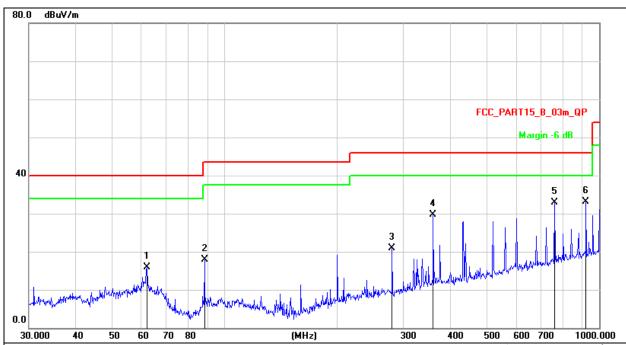
Remark:

- 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	1	19.8556	29.63	-19.07	10.56	43.50	-32.94	QP
2	19	99.9856	43.03	-17.37	25.66	43.50	-17.84	QP
3	3	19.9370	46.63	-13.87	32.76	46.00	-13.24	QP
4	* 3	60.4476	49.25	-12.67	36.58	46.00	-9.42	QP
5	6	01.4265	37.75	-8.38	29.37	46.00	-16.63	QP
6	1	000.000	43.30	-3.76	39.54	54.00	-14.46	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 5	Remark:	N/A



Remark:

- 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		61.9951	33.51	-17.66	15.85	40.00	-24.15	QP
2		88.3421	37.46	-19.62	17.84	43.50	-25.66	QP
3	-	280.0237	35.95	-15.08	20.87	46.00	-25.13	QP
4	;	360.4476	42.43	-12.67	29.76	46.00	-16.24	QP
5	•	760.7036	39.08	-6.20	32.88	46.00	-13.12	QP
6	*	922.5157	37.47	-4.35	33.12	46.00	-12.88	QP



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
		1	annel				
V	4804.00	52.08	-0.43	51.65	74.00	-22.35	PK
V	4804.00	43.61	-0.43	43.18	54.00	-10.82	AV
V	7206.00	45.06	8.31	53.37	74.00	-20.63	PK
V	7206.00	34.59	8.31	42.90	54.00	-11.10	AV
Н	4804.00	50.16	-0.43	49.73	74.00	-24.27	PK
Н	4804.00	40.71	-0.43	40.28	54.00	-13.72	AV
Н	7206.00	43.69	8.31	52.00	74.00	-22.00	PK
Н	7206.00	34.92	8.31	43.23	54.00	-10.77	AV
GFSK Middle channel							
V	4882.00	50.86	-0.38	50.48	74.00	-23.52	PK
V	4882.00	44.32	-0.38	43.94	.94 54.00 -10.0		AV
V	7323.00	40.46	8.83	49.29	74.00	-24.71	PK
V	7323.00	31.35	8.83	40.18	54.00	-13.82	AV
Н	4882.00	47.61	-0.38	47.23	74.00	-26.77	PK
Н	4882.00	37.55	-0.38	37.17	54.00	-16.83	AV
Н	7323.00	38.10	8.83	46.93	74.00	-27.07	PK
Н	7323.00	30.17	8.83	39.00	54.00	-15.00	AV
		(GFSK High ch	nannel	N. A.		
V	4960.00	52.24	-0.32	51.92	74.00	-22.08	PK
V	4960.00	42.19	-0.32	41.87	54.00	-12.13	AV
V	7440.00	44.10	9.35	53.45	74.00	-20.55	PK
V	7440.00	34.72	9.35	44.07	54.00	-9.93	AV
Н	4960.00	51.10	-0.32	50.78	74.00	-23.22	PK
Н	4960.00	40.62	-0.32	40.30	54.00	-13.70	AV
Н	7440.00	42.37	9.35	51.72	74.00	-22.28	PK
Н	7440.00	34.93	9.35	44.28	54.00	-9.72	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.
- 5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.

,TC

3C

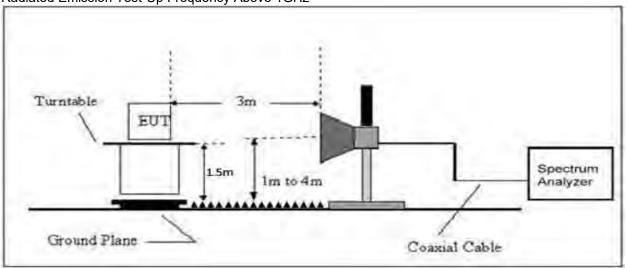
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8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

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			

No.: BCTC/RF-EMC-005 Page 22 of 79 / / / Edition: A.5



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 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 / 1/T Hz 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 chamber. 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.

No.: BCTC/RF-EMC-005 Page 23 of 79 / / / Edition: A.5





8.5 Test Result

	Polar (H/V)	Frequency (MHz)	Reading Level	Correct Factor	Measure- ment (dBuV/m)		nits IV/m)	Result	
	(FI/V)	(IVITIZ)	(dBuV/m)	(dB)	PK	PK	AV		
			Low	Channel 2	402MHz				
	Н	2390.00	54.27	-6.70	47.57	74.00	54.00	PASS	
	Н	2400.00	59.08	-6.71	52.37	74.00	54.00	PASS	
	V	2390.00	54.19	-6.70	47.49	74.00	54.00	PASS	
CECK	V	2400.00	57.87	-6.71	51.16	74.00	54.00	PASS	
GFSK			High	Channel 2	480MHz				
	Н	2483.50	57.02	-6.79	50.23	74.00	54.00	PASS	
	Н	2500.00	51.59	-6.81	44.78	74.00	54.00	PASS	
	V	2483.50	57.13	-6.79	50.34	74.00	54.00	PASS	
	V	2500.00	54.00	-6.81	47.19	74.00	54.00	PASS	
	Low Channel 2402MHz								
	Н	2390.00	53.10	-6.70	46.40	74.00	54.00	PASS	
	Н	2400.00	57.20	-6.71	50.49	74.00	54.00	PASS	
	V	2390.00	52.54	-6.70	45.84	74.00	54.00	PASS	
π/4DQPSK	V	2400.00	56.32	-6.71	49.61	74.00	54.00	PASS	
II/4DQI SK	High Channel 2480MHz								
	Н	2483.50	56.49	-6.79	49.70	74.00	54.00	PASS	
	Н	2500.00	50.17	-6.81	43.36	74.00	54.00	PASS	
	V	2483.50	55.52	-6.79	48.73	74.00	54.00	PASS	
	V	2500.00	51.36	-6.81	44.55	74.00	54.00	PASS	
		,	Low	Channel 2	402MHz				
	Н	2390.00	53.59	-6.70	46.89	74.00	54.00	PASS	
	Н	2400.00	56.83	-6.71	50.12	74.00	54.00	PASS	
	V	2390.00	52.61	-6.70	45.91	74.00	54.00	PASS	
8DPSK	V	2400.00	56.05	-6.71	49.34	74.00	54.00	PASS	
021 OK			High	Channel 2	480MHz				
	Н	2483.50	57.44	-6.79	50.65	74.00	54.00	PASS	
	Н	2500.00	52.12	-6.81	45.31	74.00	54.00	PASS	
	V	2483.50	56.18	-6.79	49.39	74.00	54.00	PASS	
Damanda	V	2500.00	53.45	-6.81	46.64	74.00	54.00	PASS	

Remark:

1. Emission Level = Meter Reading + Factor,

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

Over= Emission Level - 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. Conducted Emission

9.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

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 §15.209(a) (see §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

No.: BCTC/RF-EMC-005 Page 25 of 79

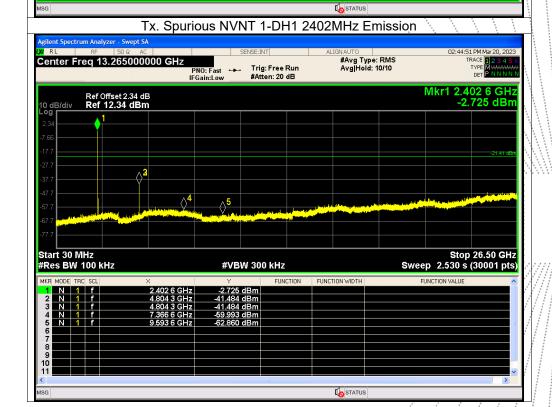


9.4 Test Result

Temperature :	26℃	Relative Humidity :	54%
Test Voltage :	DC 3.8V	Remark:	N/A

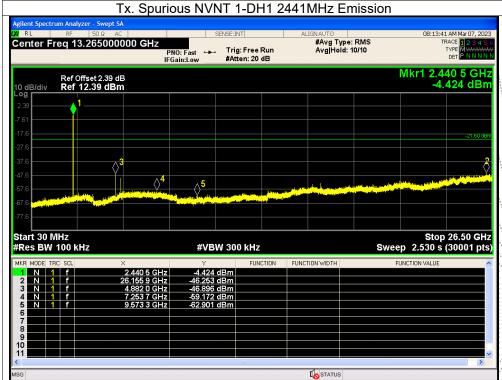
30MHz - 25GHz Test Graphs Tx. Spurious NVNT 1-DH1 2402MHz #Avg Type: RMS Avg|Hold: 100/100 Trig: Free Run #Atten: 20 dB Mkr1 2.402 005 10 GHz -1.411 dBm Ref Offset 2.34 dB Ref 12.34 dBm whichhaulu Center 2.4020000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 2.000 ms (30001 pts)

#VBW 300 kHz





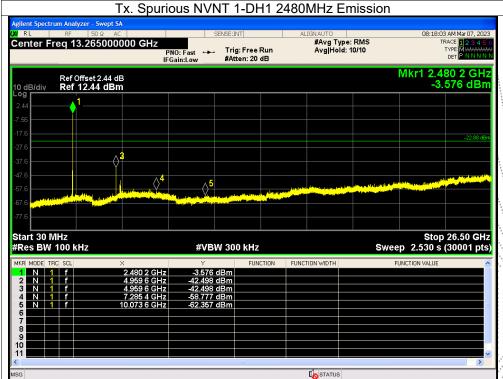


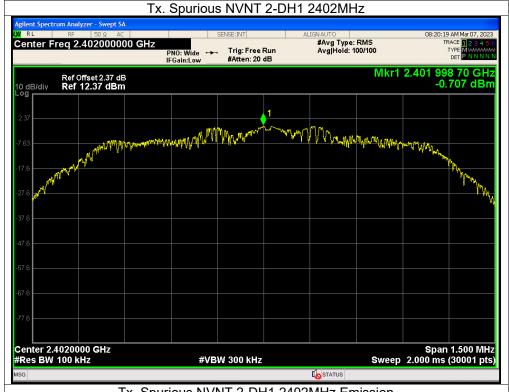


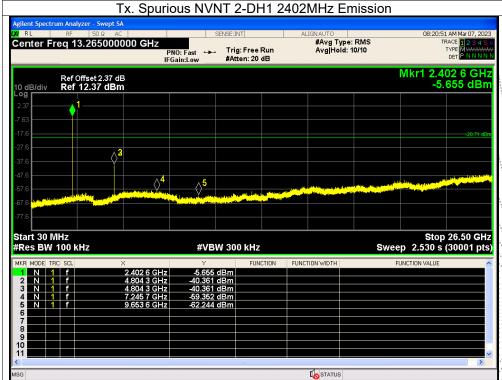
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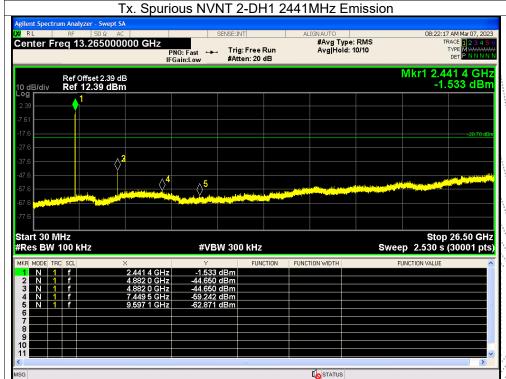


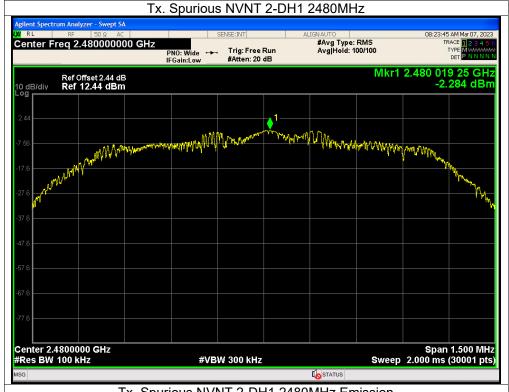


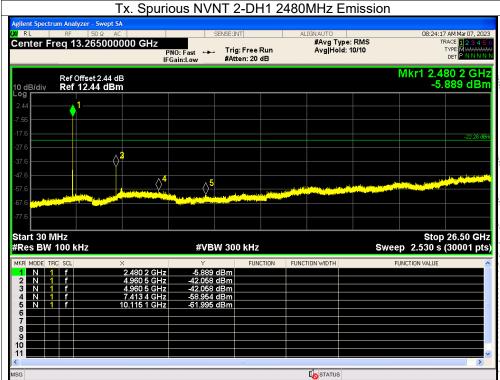






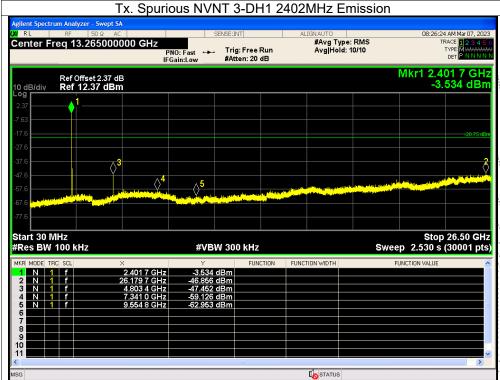




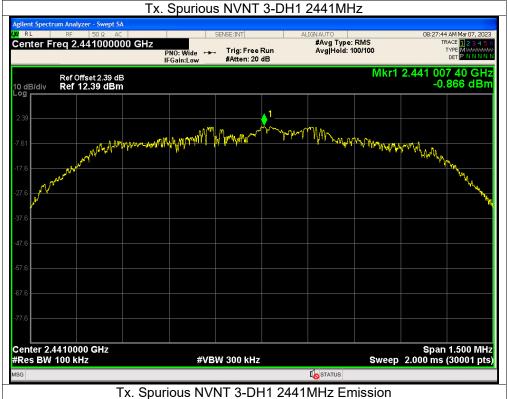


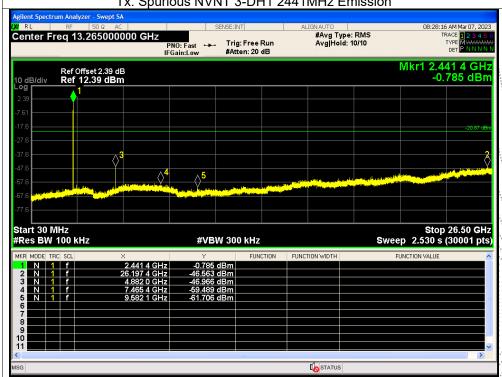
ENZHE





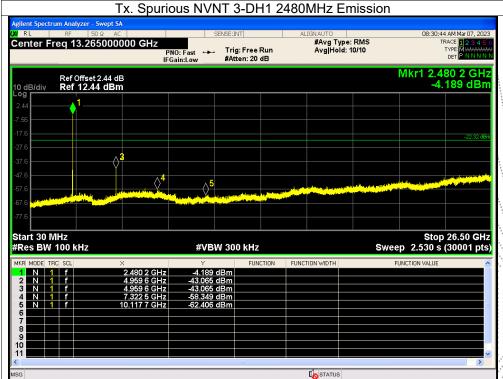


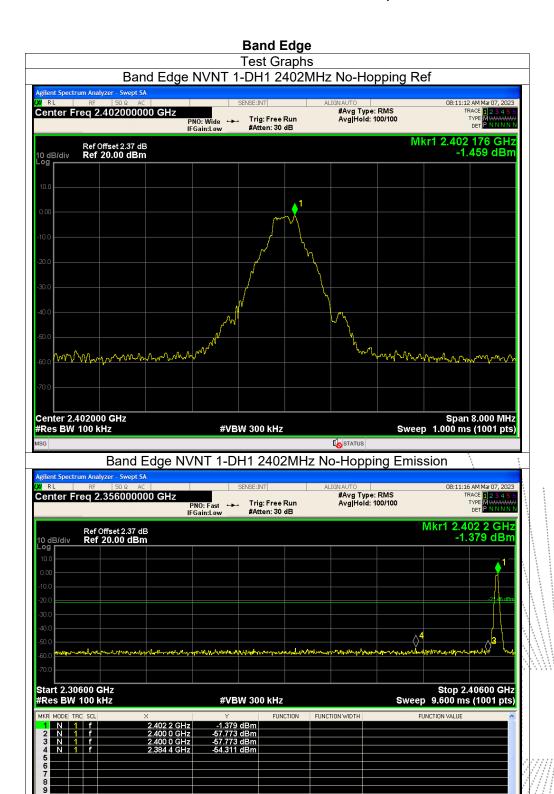




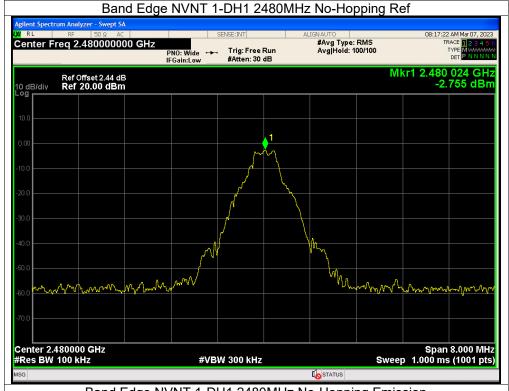
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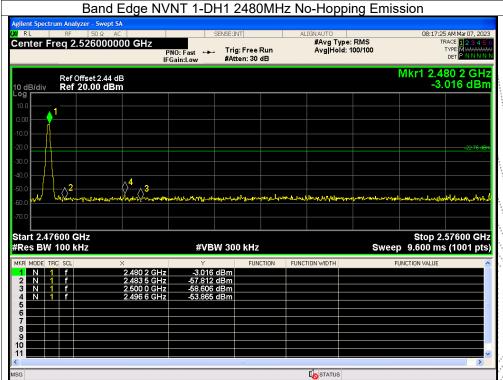




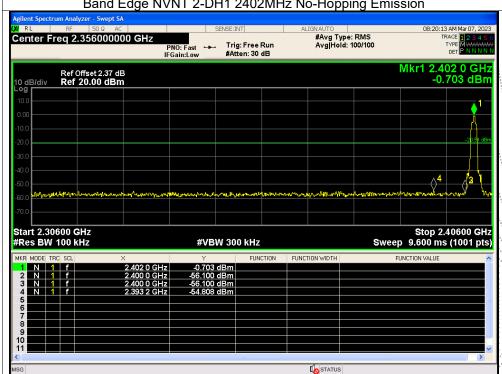


STATUS



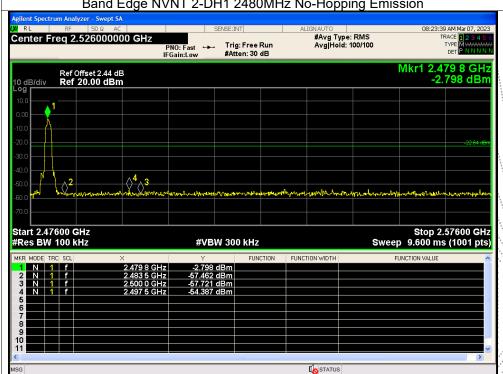




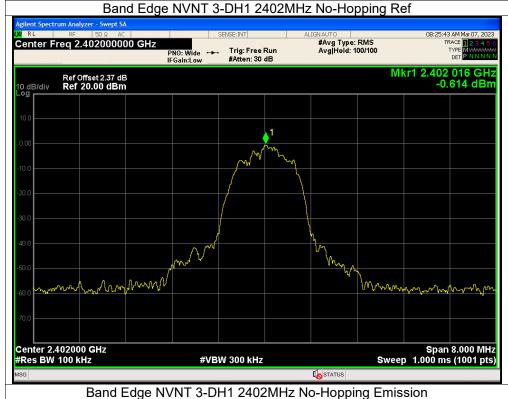


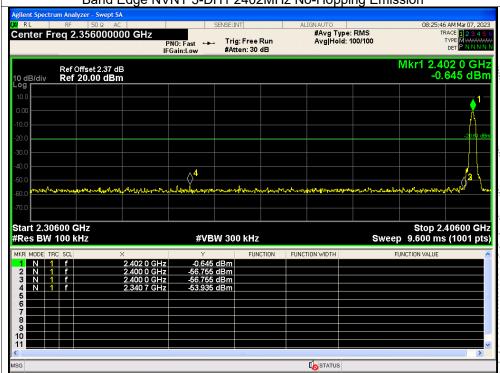
ENZHE





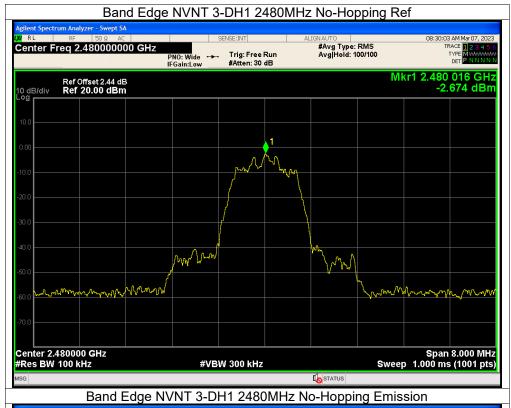


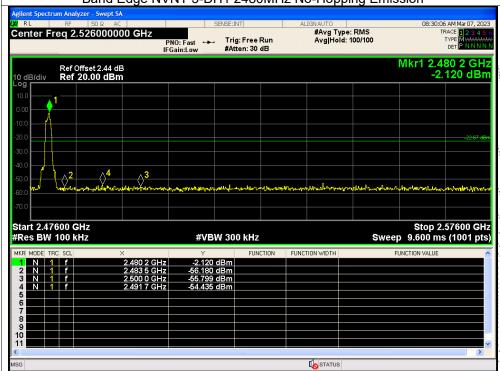




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Band Edge(Hopping)

Test Graphs

Band Edge(Hopping) NVNT 1-DH1 2402MHz Hopping Ref

Aglient Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

PNO: Wide From Marker: 30 dB

Ref Offset 2.37 dB

10 dB/div Ref 20.00 dBm

Ref 20.00 dBm

Ref 20.00 dBm

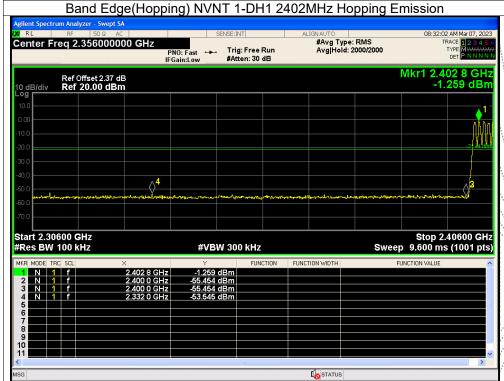
Ref 20.00 GHz

#Web 300 kHz

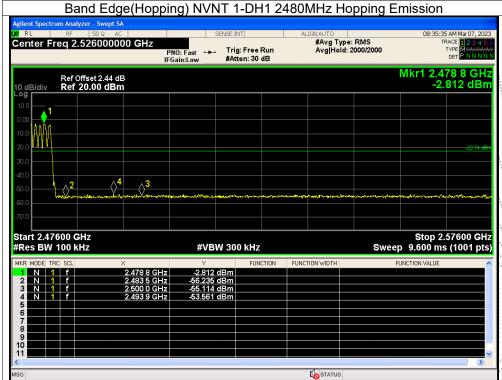
Span 8.000 MHz
#Res BW 100 kHz

#VBW 300 kHz

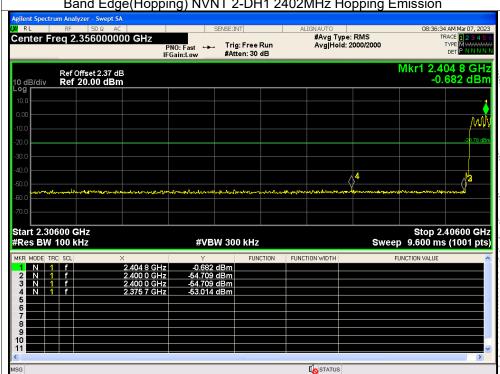
Sweep 1.000 ms (1001 pts)



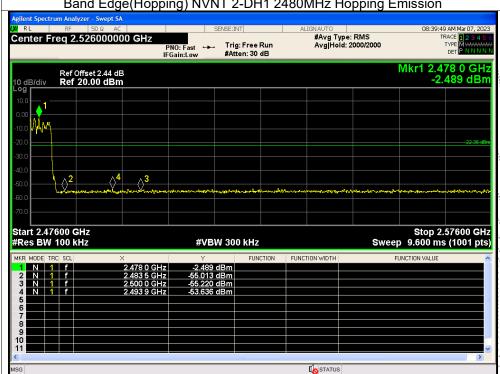






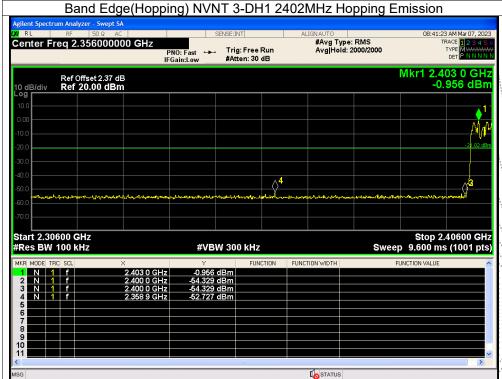






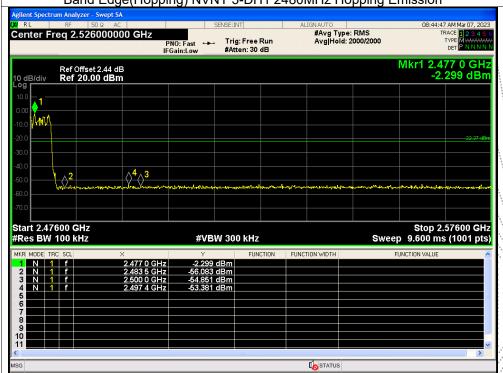






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10. 20 DB Bandwidth

10.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

10.2 Limit

N/A

10.3 Test Procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \geq 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.

10.4 Test Result

Temperature :	26℃	Relative Humidity	·	54%	<u> </u>	N	\			
Test Voltage :	DC 3.8V	Remark	····	N/A						

Modulation	Test Channel	Bandwidth(MHz)
GFSK	Low	0.927
GFSK	Middle	0.938
GFSK	High	0.942
π/4DQPSK	Low	1.23
π/4DQPSK	Middle	1.253
π/4DQPSK	High	1:221
8DPSK	Low	1.22////
8DPSK	Middle	1.221///
8DPSK	High	/1,21,6 / /



















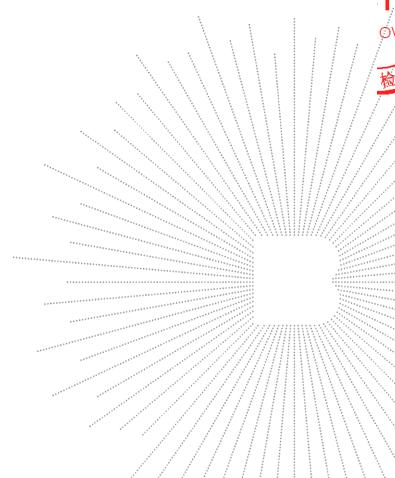




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No.: BCTC/RF-EMC-005 Page 52 of 79



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.

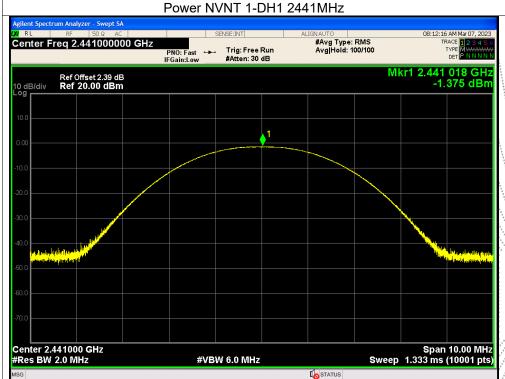
11.4 Test Result

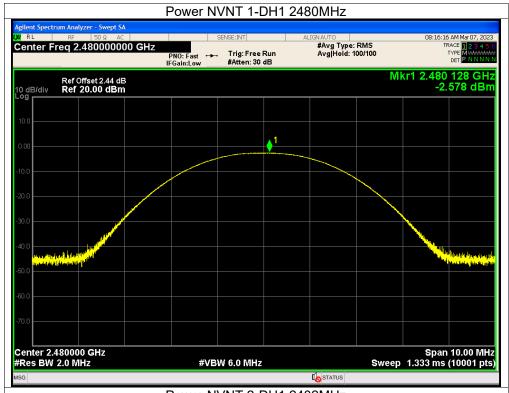
Temperature :	26℃	Relative Humidity:	54%
Test Voltage :	DC 3.8V	Remark:	N/A

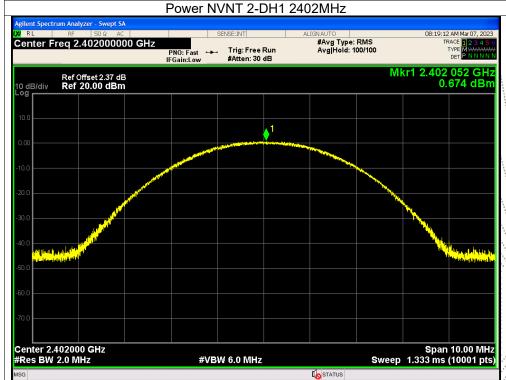
Modulation	Test Channel	Output Power (dBm) Limit (dBm)
GFSK	Low	-1:22 21
GFSK	Middle	-1.38 21
GFSK	High	-2.58 21
π/4DQPSK	Low	0.67 21
π/4DQPSK	Middle	0:52 24
π/4DQPSK	High	-1.01
8DPSK	Low	1.18
8DPSK	Middle	0.96
8DPSK	High	-0.49

No.: BCTC/RF-EMC-005 Page 53 of 79

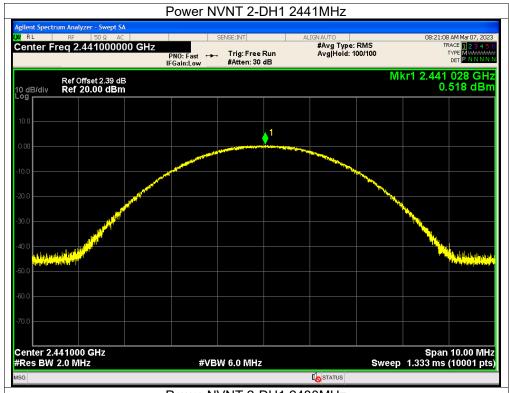


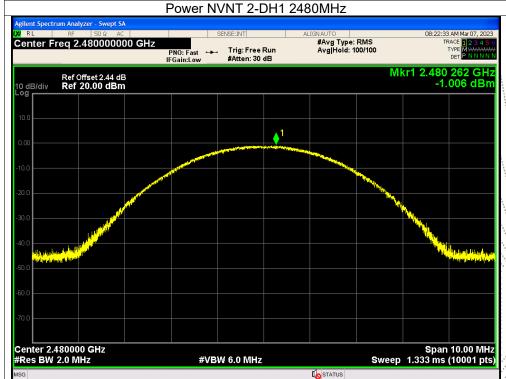




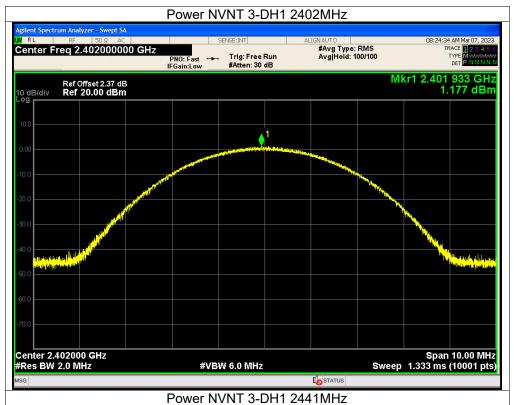


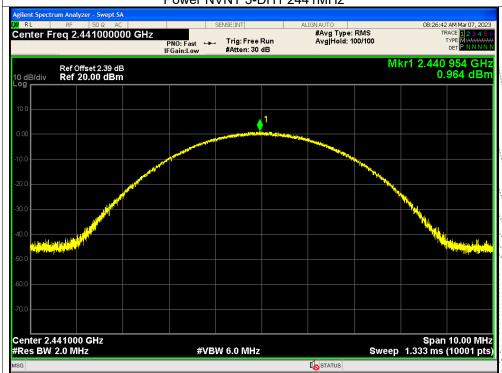
ENZHE







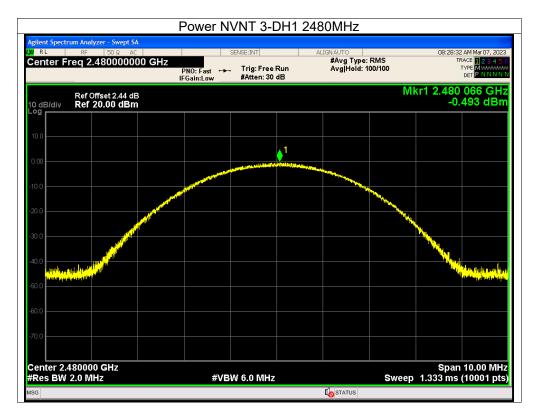


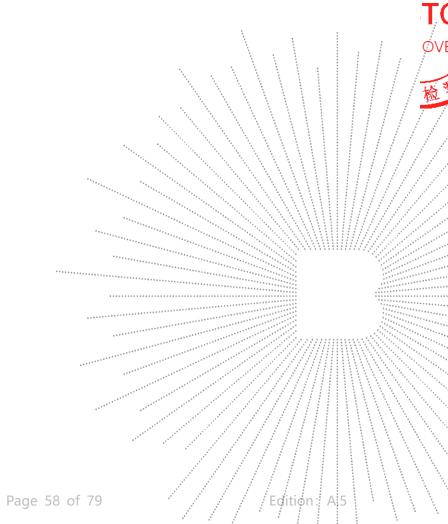


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No.: BCTC/RF-EMC-005







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.

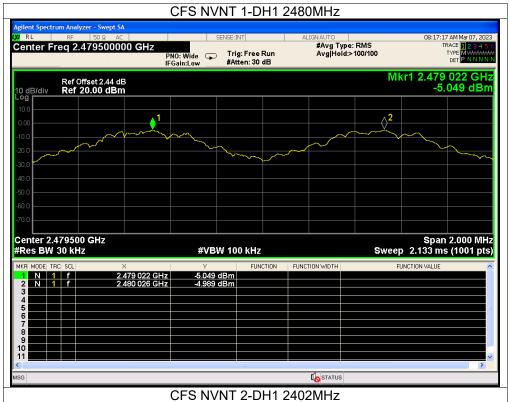
12.4 Test Result

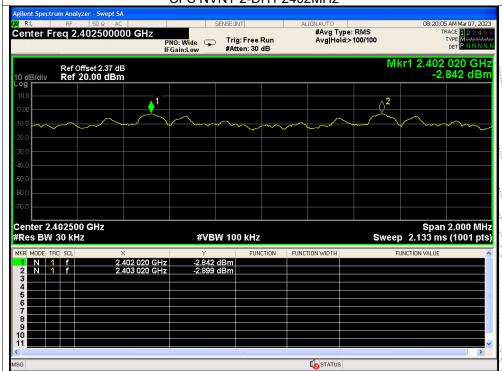
Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	1	0.927	PASS
GFSK	Middle	1.004	0.938	PASS
GFSK	High	1.004·····	0.942	PASS
π/4DQPSK	Low	1	0.820	PASS
π/4DQPSK	Middle	1	0.000	PASS
π/4DQPSK	High	1.002	0:814	PASS
8DPSK	Low	1.002	0.813	PASS
8DPSK	Middle	1.14	0.814	PASS
8DPSK	High	1.004	0.811	PASS

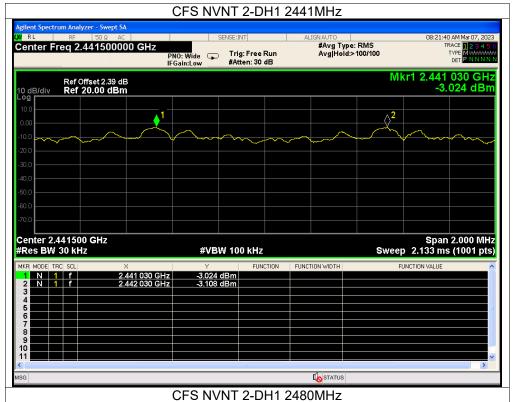
No.: BCTC/RF-EMC-005 Page 59 of 79 / / / Edition: A:5

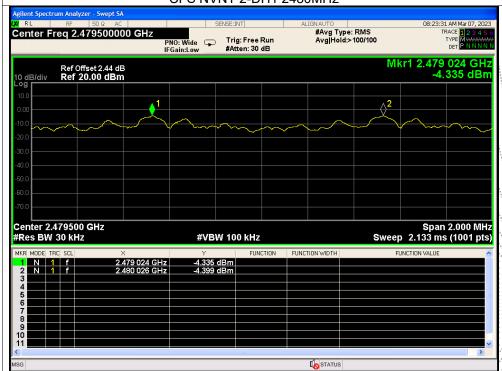




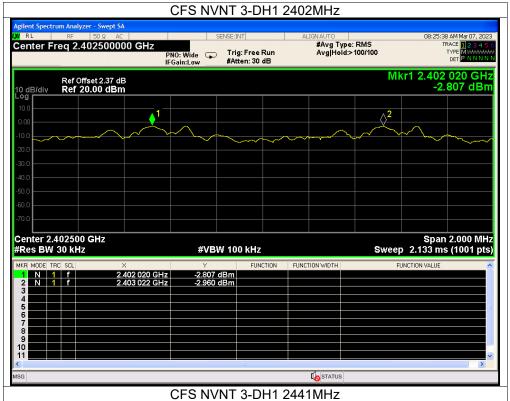


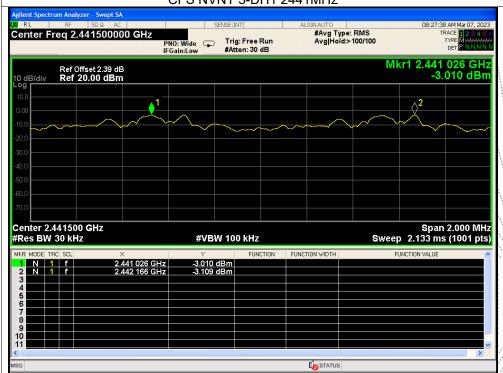






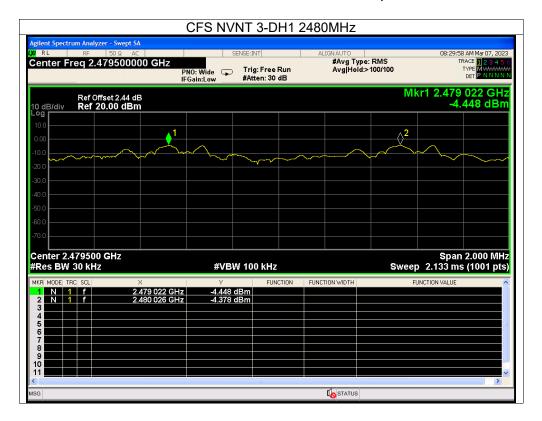


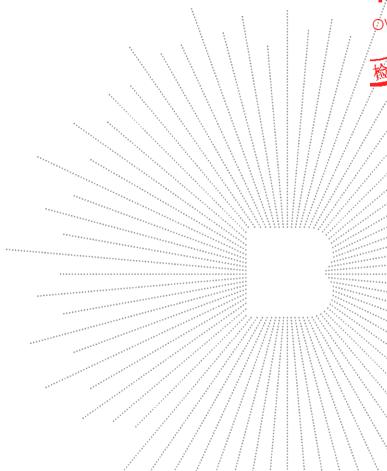




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No.: BCTC/RF-EMC-005 Page 64 of 79



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;

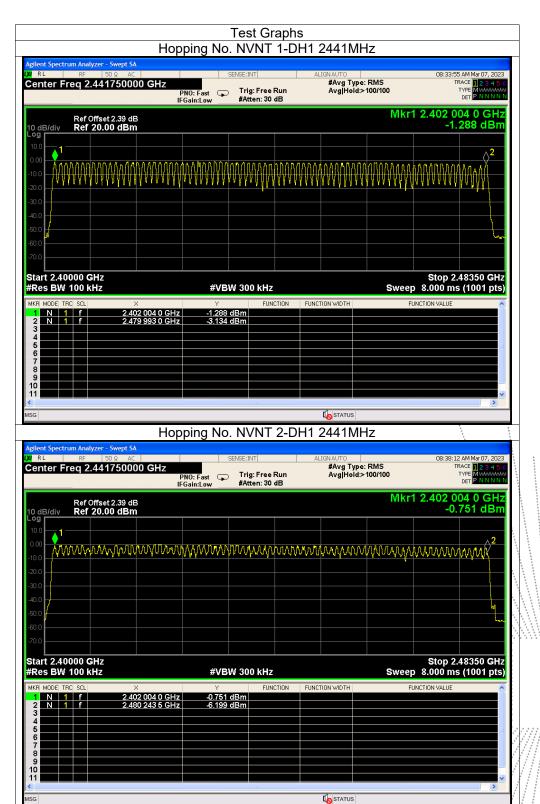
No.: BCTC/RF-EMC-005

Page 65 of 79

Edition: A 5

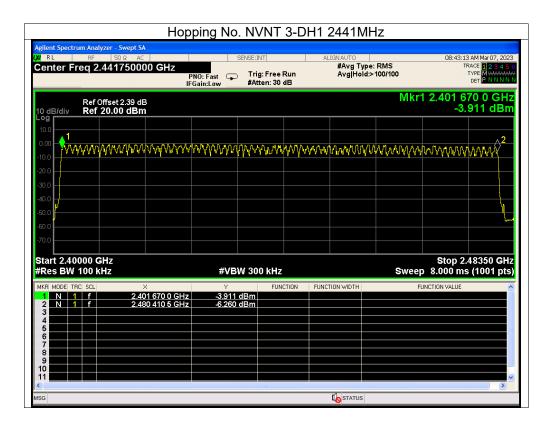


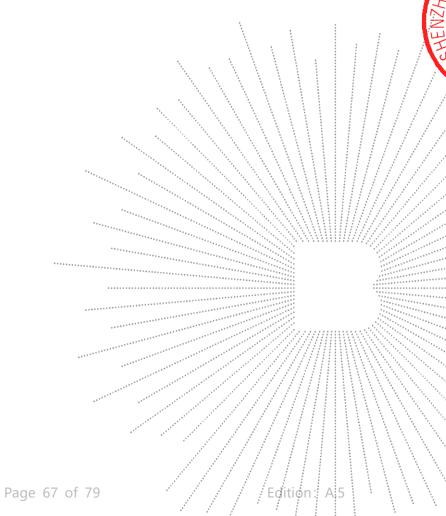
13.4 Test Result





No.: BCTC/RF-EMC-005







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).

No.: BCTC/RF-EMC-005 Page 68 of 79 / / / Edition: A



14.4 Test Result

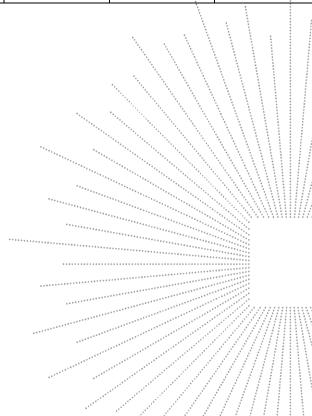
DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

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.

Modulation	Channel Data	Packet	pulse time(ms)	Dwell Time(s)	Limits(s)
		DH1	0.383	0.123	0.4
GFSK	Middle	DH3	1.638	0.262	0.4
		DH5	2.887	0.308	0.4
		2DH1	0.392	0.125	0.4
π/4DQPSK	Middle	2DH3	1.644	0.263	0.4
		2DH5	2.892	0.308	0.4
		3DH1	0.391	0.125	0.4
8DPSK	Middle	3DH3	1.642	0.263	0.4
		3DH5	2.893	0.309	0.4

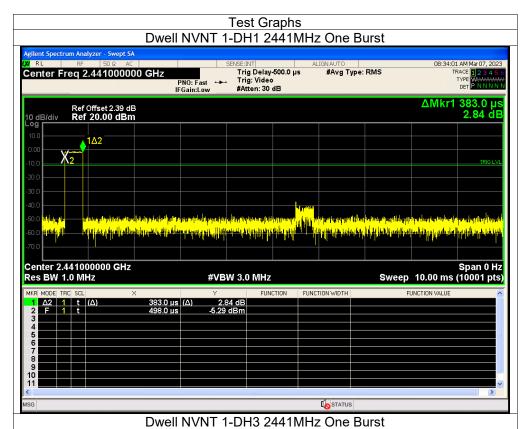


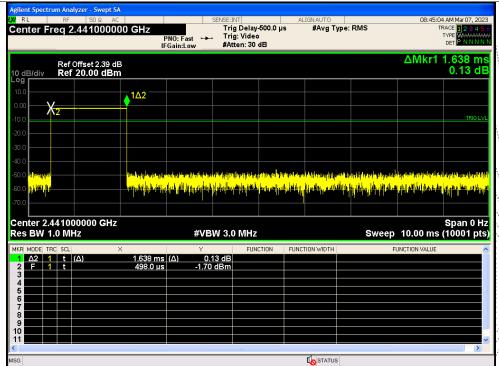
No.: BCTC/RF-EMC-005

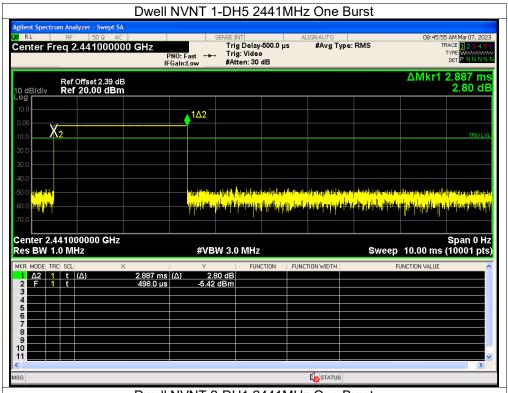
Page 69 of 79

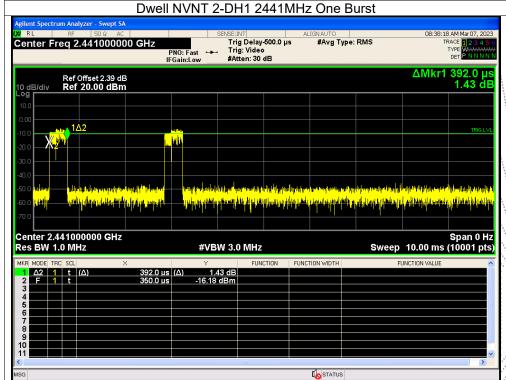
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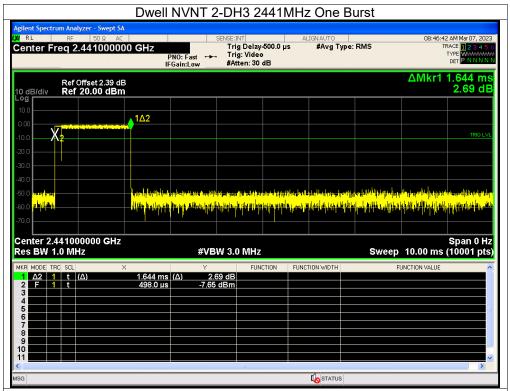


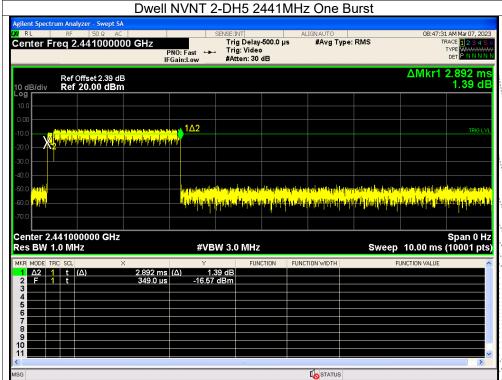


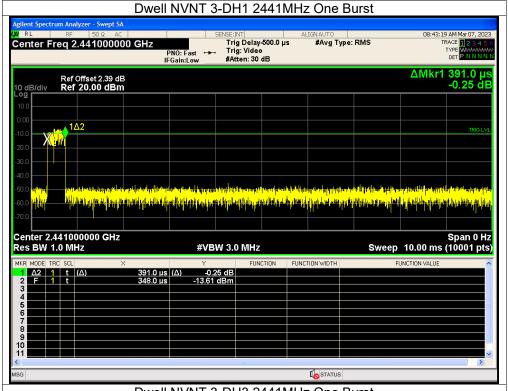


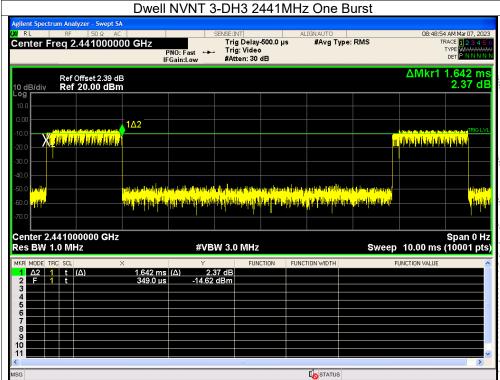




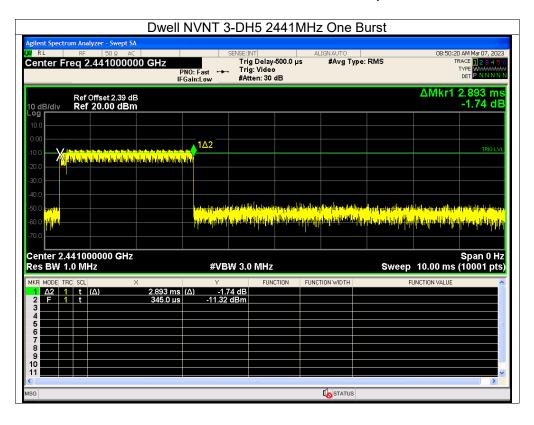


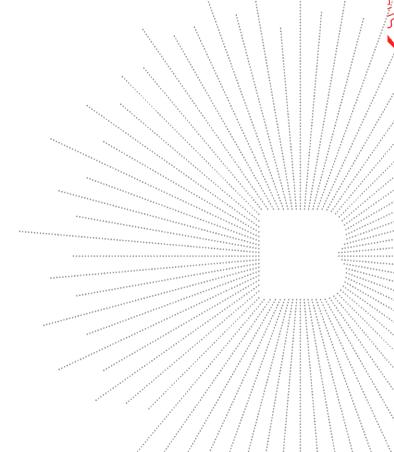












No.: BCTC/RF-EMC-005 Page 74 of 79



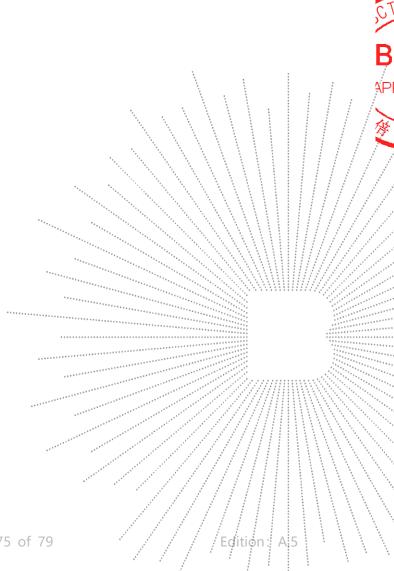
15. Antenna Requirement

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 FPC antenna, fulfill the requirement of this section.



No.: BCTC/RF-EMC-005

Page 75 of 79

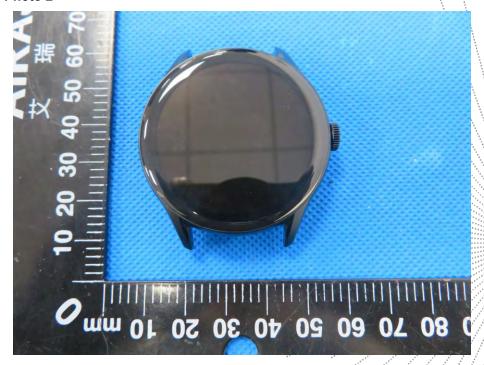


16. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details

No.: BCTC/RF-EMC-005 Page 76 of 79 / / / Edition: A.5



17. EUT Test Setup Photographs

Conducted Measurement Photo



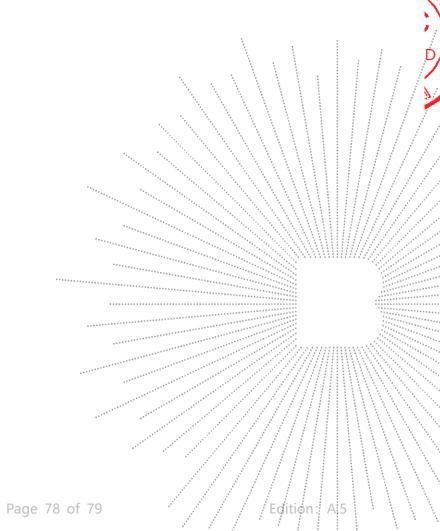
Radiated Measurement Photos



No.: BCTC/RF-EMC-005 Page 77 of 79 / / / Edition: A 5







No.: BCTC/RF-EMC-005 Page 78 of



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.

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

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

**** END ****

No.: BCTC/RF-EMC-005 Page 79 of 79

Edition: A 5