

TEST REPORT

Report No.:	BCTC2203864508E				
Applicant:	ShenZhen Targetever Technology Co., Ltd.				
Product Name:	Wireless Controller for NS				
Model/Type reference:	EG13A				
Tested Date:	2022-02-25 to 2022-03-04				
Issued Date:	2022-03-04				
She	enzhen BCTCTESting Co., Ltd.				
No.: BCTC/RF-EMC-007	Page: 1 of 81 Edition: A.4				



FCC ID:2AEBY-EG13AR

Product Name:	Wireless Controller for NS
Trademark:	N/A
Model/Type Reference:	EG13A EG13B, EG13C
Prepared For:	ShenZhen Targetever Technology Co., Ltd.
Address:	Floor 11-12, Building 8, LianHua Industrial Park, LongYuan Road, LongHua New District, ShenZhen, China
Manufacturer:	ShenZhen Targetever Technology Co., Ltd.
Address:	Floor 11-12, Building 8, LianHua Industrial Park, LongYuan Road, 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, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2022-02-25
Sample tested Date:	2022-02-25 to 2022-03-04
Issue Date:	2022-03-04
Report No.:	BCTC2203864508E
Test Standards	FCC Part15.247 ANSI C63.10-2013
Test Results	PASS
Remark:	This is Bluetooth Classic radio test report.

Tested by:

Chen

Lei Chen/Project Handler

Approved by:

Zero Zhou/Reviewer

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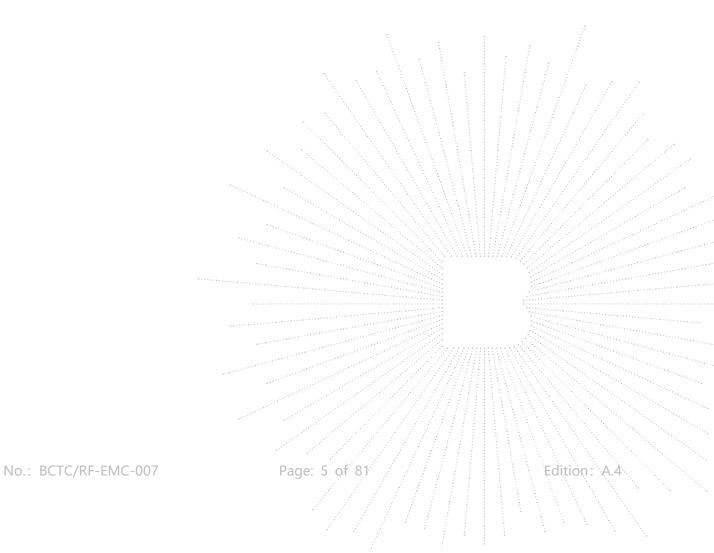
(Note: N/A Means Not Applicable)

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2203864508E	2022-03-04	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	Number of hoppingfrequencies	§15.247(a)(1)(iii)	PASS
5	Dwell Time	§1 5.247(a)(1)(iii)	PASS
6	Spurious RF conducted emissions	§15.247(d)	PASS
7	Band edge	§1 5.247(d)	PASS
8	Spurious radiated emissions for transmitter	§15.247(d) & §15.209 & §15.205	PASS
9	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°C



4. Product Information And Test Setup

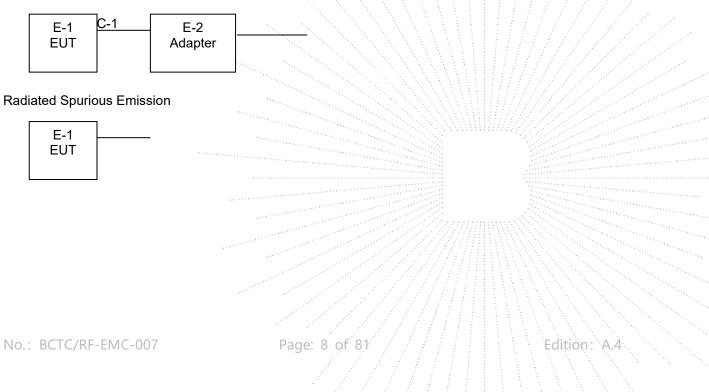
4.1 Product Information

Model/Type reference:	EG13A EG13B, EG13C
Model differences:	All the model are the same circuit and RF module, except model names.
Bluetooth Version:	BT 5.0
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	Bluetooth: 2402-2480MHz
Type of Modulation:	Bluetooth: GFSK, π/ 4 DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	PCB antenna
Antenna Gain:	-0.42 dBi
Ratings:	DC 5V from USB, DC 3.7V from battery

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:





4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Wireless Controller for NS	N/A	EG13A	EG13B, EG13C	EUT
E-2	Adapter	N/A	BCTC001	N/A	Auxiliary

ltem	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	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.

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	· · · · · · · · · · · · · · · · · · ·



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	Transmitting (Conducted emission & Radiated 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	BT_Tool				
Frequency	2402 MHz	2441 MHz	2480 MHz		
Parameters	DEF	DEF	DEF		

No.: BCTC/RF-EMC-007



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, Tangwei, 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 28, 2021	May 27, 2022			
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022			
Software	Frad	EZ-EMC	EMC-CON 3A1	/	/			
Attenuator	١	10dB DC-6GHz	1650	May 28, 2021	May 27, 2022			

RF Conducted Test								
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.			
Power Metter	Keysight	E4419		May 28, 2021	May 27, 2022			
Power Sensor (AV)	Keysight	E9300A	$\sum_{i=1}^{n} \sum_{j=1}^{n} \prod_{i=1}^{n} \sum_{j=1}^{n} \sum_{j$	May 28, 2021	May 27, 2022			
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022			
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	an a	May 28, 2021	May 27, 2022			

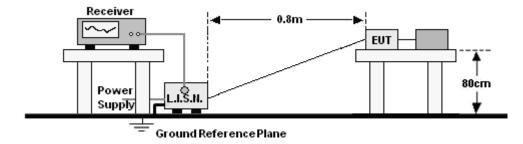


Radiated Emissions Test (966 Chamber)							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023		
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022		
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022		
Amplifier	SKET	LAPA_01G18 G-45dB	١	May 28, 2021	May 27, 2022		
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022		
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022		
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022		
Horn Antenn (18GHz-40GH z)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022		
Amplifier (18GHz-40GH z)	MITEQ	TTA1840-35- HG	2034381	May 28, 2021	May 27, 2022		
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Jun. 02, 2021	Jun. 01, 2022		
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 28, 2021	May 27, 2022		
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 28, 2021	May 27, 2022		
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022		
Power Metter	Keysight	E4419		May 28, 2021	May 27, 2022		
Power Sensor (AV)	Keysight	E9300A	$\sum_{i=1}^{n} \frac{1}{i} \sum_{i=1}^{n} \frac{1}{i} \sum_{i$	May 28, 2021	May 27, 2022		
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022		
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 28, 2021	May 27, 2022		
Software	Frad	EZ-EMC	FA-03A2 RE	1			



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



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.

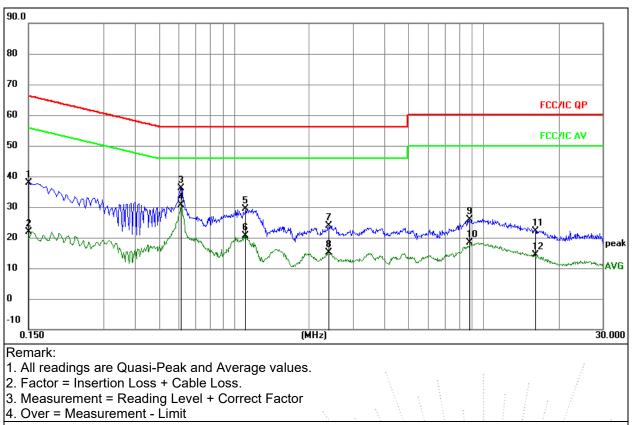
6.4 EUT operating Conditions

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

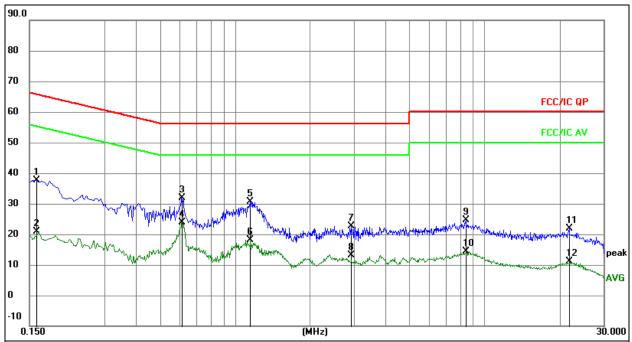
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



1. 0 10	modee		THX .					
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1500	18.25	19.60	37.85	66.00	-28.15	QP
2		0.1500	2.37	19.60	21.97	56.00	-34.03	AVG
3		0.6134	16.55	19.61	36.16	56.00	-19.84	QP
4	*	0.6134	10.99	19.61	30.60	46.00	-15.40	AVG
5		1.1085	9.70	19.62	29.32	56.00	-26.68	QP
6		1.1085	1.01	19.62	20.63	46.00	-25.37	AVG
7		2.3955	4.26	19.63	23.89	56.00	-32.11	QP
8		2.3955	-4.51	19.63	15.12	46.00	-30.88	AVG
9		8.7630	6.10	19.77	25.87	60.00	-34.13	QP
10		8.7630	-1.49	19.77	18.28	50.00	-31.72	AVG
11		16.0800	2.31	19.76	22.07	60.00	-37.93	QP
12		16.0800	-5.50	19.76	14.26	50.00	-35.74	AVG
L								



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



Remark:

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

3. Measurement = Reading Level + Correct Factor	or
---	----

4. Over = Measurement - Limit

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1598	17.94	19.60	37.54	65.47	-27.93	QP
2	0.1598	1.22	19.60	20.82	55.47	-34.65	AVG
3	0.6108	12.22	19.61	31.83	56.00	-24.17	QP
4 *	0.6108	4.39	19.61	24.00	46.00	-22.00	AVG
5	1.1534	10.94	19.62	30.56	56.00	-25.44	QP
6	1.1534	-1.42	19.62	18.20	46.00	-27.80	AVG
7	2.9152	3.06	19.64	22.70	56.00	-33.30	QP
8	2.9152	-6.43	19.64	13.21	46.00	-32.79	AVG
9	8.4115	4.83	19.76	24.59	60.00	-35.41	QP
10	8.4115	-5.35	19.76	14.41	50.00	-35.59	AVG
11	21.8303	2.08	19.74	21.82	60.00	-38.18	QP
12	21.8303	-8.68	19.74	11.06	50.00	-38.94	AVG

No.: BCTC/RF-EMC-007

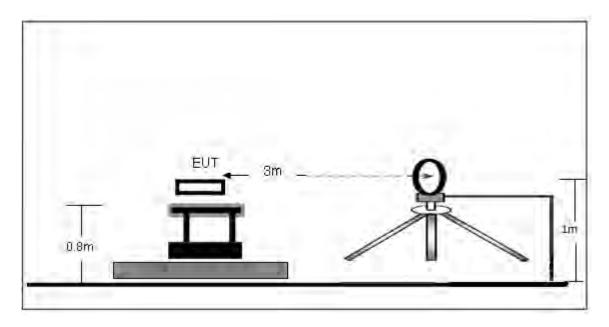
Edition:



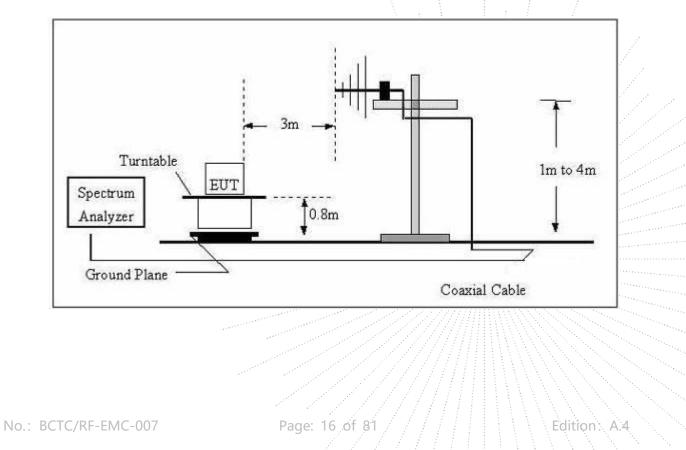
7. Radiated emissions

7.1 Block Diagram Of Test Setup

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

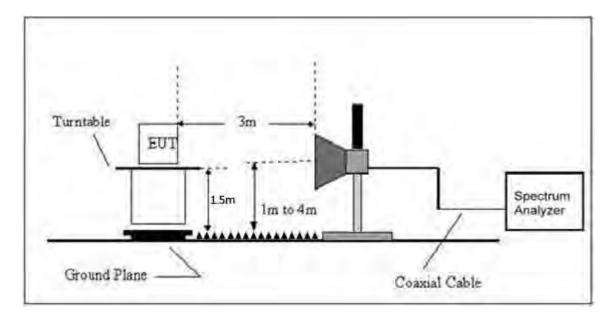


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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.

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

Limits Of Radiated Emission Measurement (Above 1000MHz)

	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	Tost Voltago :	AC120V/60Hz
Test Mode:	Mode 5	Test Voltage :	

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

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the

permissible value has no need to be reported.

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

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

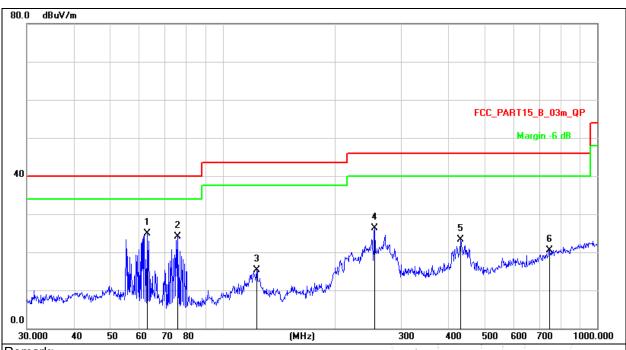
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Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Test Voltage:	AC 120V/60Hz



Remark:

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

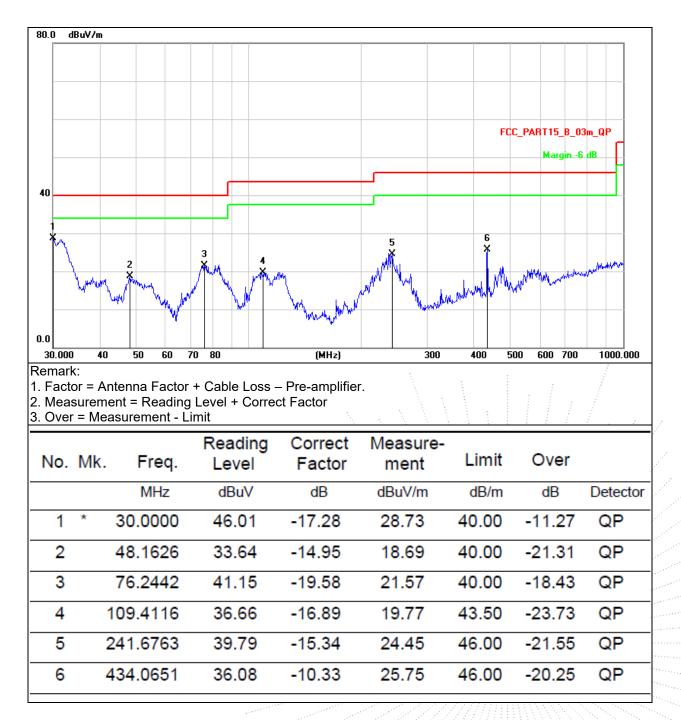
2. Measurement = Reading Level + Correct Factor

Over = Measurement -	Limit
--	-------

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	62.8708	41.39	-16.56	24.83	40.00	-15.17	QP
2		75.9773	43.65	-19.52	24.13	40.00	-15.87	QP
3	1	23.2655	33.06	-17.78	15.28	43.50	-28.22	QP
4	2	254.7284	41.34	-15.00	26.34	46.00	-19.66	QP
5	4	32.5457	33.70	-10.36	23.34	46.00	-22.66	QP
6	7	47.4825	24.97	-4.38	20.59	46.00	-25.41	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 5	Test Voltage:	AC 120V/60Hz





Between 1GHz – 25GHz

Polar	Frequency	-	Correct Factor	Measure- ment	Limits	Over (dB)	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)		
			GFSK Low ch	annel			
V	4804.00	53.83	-0.43	53.40	74.00	-20.60	PK
V	4804.00	43.73	-0.43	43.30	54.00	-10.70	AV
V	7206.00	45.18	8.31	53.49	74.00	-20.51	PK
V	7206.00	35.54	8.31	43.85	54.00	-10.15	AV
Н	4804.00	50.02	-0.43	49.59	74.00	-24.41	PK
Н	4804.00	40.74	-0.43	40.31	54.00	-13.69	AV
Н	7206.00	44.12	8.31	52.43	74.00	-21.57	PK
Н	7206.00	36.53	8.31	44.84	54.00	-9.16	AV
		G	FSK Middle c	hannel	•	•	•
V	4882.00	51.58	-0.38	51.20	74.00	-22.80	PK
V	4882.00	43.47	-0.38	43.09	54.00	-10.91	AV
V	7323.00	41.98	8.83	50.81	74.00	-23.19	PK
V	7323.00	33.07	8.83	41.90	54.00	-12.10	AV
Н	4882.00	48.57	-0.38	48.19	74.00	-25.81	PK
Н	4882.00	39.08	-0.38	38.70	54.00	-15.30	AV
Н	7323.00	39.86	8.83	48.69	74.00	-25.31	PK
Н	7323.00	32.16	8.83	40.99	54.00	-13.01	AV
			GFSK High ch	nannel			
V	4960.00	53.98	-0.32	53.66	74.00	-20.34	PK
V	4960.00	44.93	-0.32	44.61	54.00	-9.39	AV
V	7440.00	46.21	9.35	55.56	74.00	-18.44	PK
V	7440.00	35.50	9.35	44.85	54.00	-9.15	AV
Н	4960.00	51.86	-0.32	51.54	74.00	-22.46	PK
Н	4960.00	40.86	-0.32	40.54	54.00	-13.46	AV
Н	7440.00	44.78	9.35	54.13	74.00	-19.87	PK
Н	7440.00	36.88	9.35	46.23	54.00	-7.77	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.

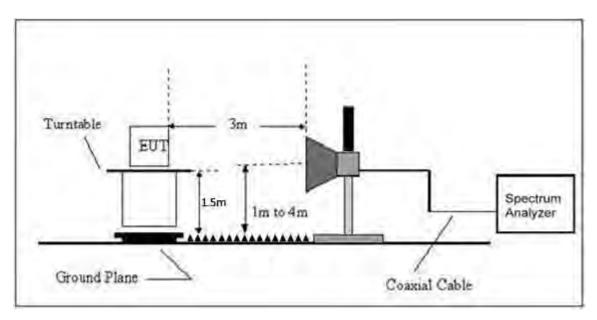
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



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 mode	Polar (H/V)	Frequency (MHz)	Reading Level	Correct Factor	Measure- ment (dBuV/m)		nits IV/m)	Result
	(1	(11112)	(dBuV/m)	(dB)	РК	РК	AV	
			Low	Channel 2	402MHz	•		
	Н	2390.00	53.88	-6.70	47.18	74.00	54.00	PASS
	Н	2400.00	58.32	-6.71	51.61	74.00	54.00	PASS
	V	2390.00	53.08	-6.70	46.38	74.00	54.00	PASS
GFSK	V	2400.00	52.94	-6.71	46.23	74.00	54.00	PASS
Gran			High	Channel 2	480MHz			
	Н	2483.50	54.36	-6.79	47.57	74.00	54.00	PASS
	Н	2500.00	49.04	-6.81	42.23	74.00	54.00	PASS
	V	2483.50	51.30	-6.79	44.51	74.00	54.00	PASS
	V	2500.00	47.52	-6.81	40.71	74.00	54.00	PASS
			Low	Channel 2	402MHz			
	Н	2390.00	52.82	-6.70	46.12	74.00	54.00	PASS
	Н	2400.00	56.52	-6.71	49.81	74.00	54.00	PASS
	V	2390.00	52.58	-6.70	45.88	74.00	54.00	PASS
	V	2400.00	54.08	-6.71	47.37	74.00	54.00	PASS
π/4DQPSK			High	n Channel 2	480MHz	•	•	
	Н	2483.50	53.25	-6.79	46.46	74.00	54.00	PASS
	Н	2500.00	48.56	-6.81	41.75	74.00	54.00	PASS
	V	2483.50	52.88	-6.79	46.09	74.00	54.00	PASS
	V	2500.00	48.18	-6.81	41.37	74.00	54.00	PASS
			Low	Channel 2	402MHz			
	Н	2390.00	53.57	-6.70	46.87	:74.00	54.00	PASS
	Н	2400.00	58.24	-6.71	51.53	74.00	54.00	PASS
	V	2390.00	54.48	-6.70	47.78	74.00	54.00	PASS
	V	2400.00	55.01	-6.71	48.30	74.00	54.00	PASS
8DPSK			High	h Channel 2	480MHz			
	Н	2483.50	51.61	-6.79	44.82	74.00	54.00	PASS
	Н	2500.00	49.93	-6.81	43.12	74.00	54.00	PASS
	V	2483.50	53.68	-6.79	46.89	74.00	54.00	PASS
	V	2500.00	49.85	-6.81	43.04	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. 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;

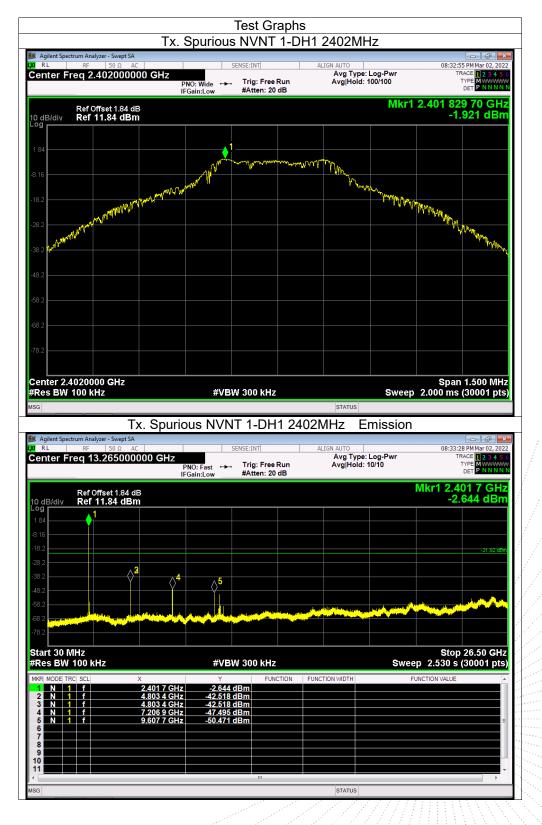
2. Set the spectrum analyzer: Below 30MHz: RBW = 100kHz, VBW = 300kHz, Sweep = auto Detector function = peak, Trace = max hold Above 30MHz: RBW = 100KHz, VBW = 300KHz, Sweep = auto Detector function = peak, Trace = max hold

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9.4 Test Result





Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.44100	AC 00000 GHz P	NO:Wide ⊶⊶	E:INT Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type Avg Hold:		08:34:22 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N
D-6 06		Gain:Low	#Atten: 20 dB		Mkr1 2	2.440 825 30 GH
Ref Offset 1.8 dB/div Ref 11.86 d	IBm					-3.157 dBi
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				STATUS		
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RL RF 50 Ω	AC		1-DH1 24	141MHz E		08:34:53 PM Mar 02, 20
RL RF 50 Ω	nt SA AC 1000000 GHz F	SENS		141MHz E	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 1 2 3 4 9 TYPE M WWWW DET P N N N
RL RF 50Ω enter Freq 13.2650 Ref Offset 1.8 0 dB/div Ref 11.86 c	it SA AC 000000 GHz F IF	SENS PNO: Fast ↔→	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE
RL RF 50 2 enter Freq 13.2650 Ref Offset 1.8 0 dB/div Ref 11.86 c	it SA AC 000000 GHz F IF	SENS PNO: Fast ↔→	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET PNNN Ikr1 2.441 4 GH
RL RF 50 2 enter Freq 13.2650 Ref Offset 1.8 0 dB/div Ref 11.86 c 9 86	it SA AC 000000 GHz F IF	SENS PNO: Fast ↔→	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET PNNN Ikr1 2.441 4 GH
RL RF 50 2 enter Freq 13.2650 Ref Offset 1.8 0 dB/div Ref 11.86 c	it SA AC 000000 GHz F IF	SENS PNO: Fast ↔→	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET PNNN Ikr1 2.441 4 GH
RL RF 50 2 enter Freq 13.2650 Ref Offset 1.8 0 dB/div Ref 11.86 c	it SA AC 000000 GHz F IF	PNO: Fast	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 23 4 TYPE MUNICIPAL DET NNNN Ikr1 2.441 4 GH -3.795 dBr
Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 11.86 c	AC 000000 GHz IG dB IBm	SENS PNO: Fast ↔→	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 23 4 TYPE MUNICIPAL DET NNNN Ikr1 2.441 4 GH -3.795 dBr
RL RF 50 2 enter Freq 13.2650 Ref Offset 1.8 d B/div Ref 11.86 c 9 d B/div Ref 11.86 c 9 1 4 1 4 8.1 8.1 8.1 8.1 8.1	AC AC 000000 GHz IB BM	PNO: Fast	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 23 4 TYPE MUNICIPAL DET NNNN Ikr1 2.441 4 GH -3.795 dBr
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RL RF 50 2 enter Freq 13.2650 Ref Offset 1.8 dB/div Ref 11.86 c 9 dB/div Ref 11.86 c 9 1 4 1 4 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	AC AC 000000 GHz IB BM	PNO: Fast	SE:INT	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE 23 4 TYPE MUNICIPAL DET NNNN Ikr1 2.441 4 GH -3.795 dBr
RL RF 50 0 enter Freq 13.2650 Ref Offset 1.8 Ref 11.86 c dB/div Ref 11.86 c Ref 11.86 c dB/div </td <td>AC CONTRACTOR CONTRACT</td> <td>PNO: Fast Gain:Low</td> <td>SEINT Trig: Free Run #Atten: 20 dB</td> <td>ALIGN AUTO</td> <td>: Log-Pwr 10/10</td> <td>08:34:53 PM Mar 02, 20 TRACE U 2 3 4 TYPE U 2 3 4 DET P NNNN Ikr1 2.441 4 GH -3.795 dBr -23:16 db -23:16 db</td>	AC CONTRACTOR CONTRACT	PNO: Fast Gain:Low	SEINT Trig: Free Run #Atten: 20 dB	ALIGN AUTO	: Log-Pwr 10/10	08:34:53 PM Mar 02, 20 TRACE U 2 3 4 TYPE U 2 3 4 DET P NNNN Ikr1 2.441 4 GH -3.795 dBr -23:16 db -23:16 db
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No.: BCTC/RF-EMC-007



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RL RF 50 Ω enter Freg 2.48000		SENSE:IN		ALIGN AUTO Avg Type	: Log-Pwr	08:35:38 PM Mar 02, 2 TRACE 1 2 3 4
			Free Run en: 20 dB	Avg Hold:	100/100	DET P NNN
Ref Offset 1.9					Mkr1	2.479 823 60 GH
dB/div Ref 11.90 d	Bm					-4.295 dB
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Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 13.2650 Ref Offset 1.9 0 dB/div Ref 11.90 d 9 10 8.1	t SA AC 000000 GHz F IF	DUS NVNT 1- SENSE:IN PNO: Fast → Trig: Gain:Low #Atte	DH1 2480	OMHZ E	Log-Pwr 10/10	08:36:08 PM Mar 02, 2 TRACE 12 3 4 TYRCE 12 3 4 TYRE MWW DET PNNN Nkr1 2.480 2 GH -4.978 dB
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Agilent Spectrum Analyzer - Swe RL RF 50 Ω	2 AC	SENSE:I	NT	ALIGN AUTO		08:37:20 PM Mar 02, 20
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RL RF 50 Ω	ept SA 2 AC 000000 GHz	SENSE:I	NT g: Free Run		Log-Pwr	
RL RF 50 Ω enter Freq 13.2650 Ref Offset 1.	ept SA 2 AC 0000000 GHz PI IFC	SENSE:I	NT	ALIGN AUTO Avg Type:	Log-Pwr I0/10	08:37:51 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE WWWW DET P NNNN
RL RF 50 Ω enter Freq 13.2650 Ref Offset 1: 0 dB/div Ref 11.84	ept SA 2 AC 0000000 GHz PI IFC 84 dB	SENSE:I	NT g: Free Run	ALIGN AUTO Avg Type:	Log-Pwr I0/10	08:37:51 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN
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RL RF 50 Ω enter Freq 2.44100		SENSE:INT		ALIGN AUTO Avg Type: L		08:38:29 PM Mar 02, 20 TRACE 1 2 3 4
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Agilent Spectrum Analyzer - Swe		ous NVNT 2-I	DH1 244	1MHz En	nission	
RL RF 50 Ω	pt SA AC	DUS NVNT 2-I		ALIGN AUTO		08:39:00 PM Mar 02, 20
RL RF 50 Ω	pt SA AC 000000 GHz	SENSE:INT	Free Run		og-Pwr	08:39:00 PM Mar 02, 20 TRACE 1 2 3 4
RL RF 50 Ω enter Freq 13.2650	AC AC 000000 GHz IF	SENSE:INT		ALIGN AUTO Avg Type: L	og-Pwr /10	08:39:00 PM Mar 02, 20 TRACE 1 2 3 4 TYPE MWWW DET P NN N
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RL RF 50 Ω enter Freq 13.2650 Ref 0ffset 1.8 0 dB/div Ref 0ffset 1.86 6	AC A	SENSE:INT	Free Run	ALIGN AUTO Avg Type: L	og-Pwr /10	08:39:00 PM Mar 02, 20 TRACE 2 3 4 3 TYPE MWWW DET PNNN
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RL RF 50 Ω enter Freg 13.265(Ref Offset 1.8 0 dB/div Ref 11.86 (0 dB/div Ref 11.86 (14 1 81 1 82 1 83 1 9 1 9 1 9 1 1 1 2 1	AC AC D00000 GHz F F B6 dB dBm 4 C C C C C C C C C C C C C	SENSE:INT PNO: Fast → Trig: Gain:Low → Trig: #Atte	Free Run n: 20 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr /10 M Sweep	08:39:00 PM Mar 02, 21 TRACE II 2 3 4: TYPE M WWW DET P NNNN kr1 2.441 4 GH -4.083 dBi -23:17 dl -23:17 dl Stop 26.50 GH 2.530 s (30001 pt
RL RF 50 ft enter Freg 13.265(Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 11.86 (Ref 11.86 (1.14 1 1 1 1.14 1 1 1 1 8.1 1 1 1 1 1 8.1 1 <td< td=""><td>AC AC AC AC AC AC AC AC AC AC</td><td>SENSE:INT PNO: Fast → Trig: Gain:Low → Trig: #Atte</td><td>Free Run n: 20 dB</td><td>ALIGN AUTO Avg Type: L Avg Hold: 10</td><td>og-Pwr /10 M Sweep</td><td>08:39:00 PM Mar 02, 21 TRACE II 2 3 4: TYPE M WWW DET P NNNN kr1 2.441 4 GH -4.083 dBi -23:17 dl -23:17 dl Stop 26.50 GH 2.530 s (30001 pt</td></td<>	AC AC AC AC AC AC AC AC AC AC	SENSE:INT PNO: Fast → Trig: Gain:Low → Trig: #Atte	Free Run n: 20 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr /10 M Sweep	08:39:00 PM Mar 02, 21 TRACE II 2 3 4: TYPE M WWW DET P NNNN kr1 2.441 4 GH -4.083 dBi -23:17 dl -23:17 dl Stop 26.50 GH 2.530 s (30001 pt
RL RF 50 Ω enter Freq 13.265(Ref Offset 13.265(0 dB/div Ref 11.86 (0 dB/div 1 0 dB/div Ref 11.86 (0 dB/div Ref 11.86 (0 dB/div Ref 11.86 (1 dB/div Ref 11.86 (1 dB/div Ref 11.86 (2 dB/div Ref 11.86 (1 dB/div Ref 11.86 (2 dB/div Ref 11.86 (2 dB/div Ref 11.86 (2 dB/div Ref 11.86 (1 dB/div <td>AC AC AC AC AC AC AC AC AC AC</td> <td>SENSE:INT PNO: Fast → Trig: Gain:Low → Trig: #Atte</td> <td>Free Run n: 20 dB</td> <td>ALIGN AUTO Avg Type: L Avg Hold: 10</td> <td>og-Pwr /10 M Sweep</td> <td>08:39:00 PM Mar 02, 21 TRACE II 2 3 4: TYPE M WWW DET P NNNN kr1 2.441 4 GH -4.083 dBi -23:17 dl -23:17 dl Stop 26.50 GH 2.530 s (30001 pt</td>	AC AC AC AC AC AC AC AC AC AC	SENSE:INT PNO: Fast → Trig: Gain:Low → Trig: #Atte	Free Run n: 20 dB	ALIGN AUTO Avg Type: L Avg Hold: 10	og-Pwr /10 M Sweep	08:39:00 PM Mar 02, 21 TRACE II 2 3 4: TYPE M WWW DET P NNNN kr1 2.441 4 GH -4.083 dBi -23:17 dl -23:17 dl Stop 26.50 GH 2.530 s (30001 pt

Edition: A.4

No.: BCTC/RF-EMC-007



Agilent Spectrum Analyzer - Swe RL RF 50 Ω		SENSE	INT	ALIGN AUTO		08:39:51 PM Mar 02, 20
enter Freq 2.48000	00000 GHz	_	ig: Free Run	ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr 100/100	TRACE 1 2 3 4
		PNO:Wide ↔ In FGain:Low #/	Atten: 20 dB	Avginola:		TYPE MWWW DET PNNN
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dB/div Ref 11.90 d	лвт					-4.000 (15)
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enter 2.4800000 GH	z					Span 1.500 MH
Res BW 100 kHz		#VBW 3	00 kHz		Sweep	2.000 ms (30001 pt
G						
				STATUS		
	Tx. Spurio	ous NVNT 2	2-DH1 24		mission	
	pt SA	DUS NVNT 2			mission	08:40:21 PM Mar 02, 20
Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.2650	AC	SENSE	:INT	80MHz E	: Log-Pwr	08:40:21 PM Mar 02, 20 TRACE 2 3 4
RL RF 50 Ω	pt SA AC 000000 GHz	SENSE	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
RL RF 50 Ω enter Freq 13.2650 Ref Offset 1.3	AC A	SENSE	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 2 3 4
RL RF 50 Ω enter Freq 13.2650 Ref 0ffset 1.1 Ref 0ffset 1.1 Ref 11.90 (9 4	AC A	SENSE	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN 1kr1 2.480 2 GH
RL RF 50 Ω enter Freq 13.2650 Ref Offset 1.3 0 dB/div Ref Offset 1.3 9 1	AC A	SENSE	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN 1kr1 2.480 2 GH
RL RF 50 Ω enter Freq 13.2650 Ref 0ffset 1.1 Ref 0ffset 1.1 Ref 11.90 (9 4	AC A	SENSE	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 12 3 4 TYPE MUMAN DET PNNNN 1kr1 2.480 2 GH -4.494 dBr
RL RF 50 Ω enter Freq 13.2650 Ref Offset 13 0 dB/div Ref Offset 13 0 dB/div Ref 11.90 (AC A	SENSE PNO: Fast →→ Tr Gain:Low ##	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN 1kr1 2.480 2 GH
RL RF 50 Ω enter Freq 13.2650 Ref Offset 1. 0 dB/div Ref 11.90 0 9 1 1.10 1 8.10 8.10	AC A	SENSE PNO: Fast →→ Tr Gain:Low ##	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 12 3 4 TYPE MUMAN DET PNNNN 1kr1 2.480 2 GH -4.494 dBr
RL RF 50 Ω enter Freq 13.265(Ref Offset 1. 0 dB/div Ref 11.90 0 99 1 1.00 8.1 8.1 8.1	AC A	SENSE	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 12 3 4 TYPE MUMAN DET PNNNN 1kr1 2.480 2 GH -4.494 dBr
RL RF 50 Ω enter Freq 13.265(Ref Offset 13 0 dB/div Ref 11.90 (99 1.00 8.1 8.1 8.1 8.1	AC AC D000000 GHz F B dB dB dB dB dB dB dB dB dB	SENSE PNO: Fast →→ Tr Gain:Low ##	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 12 3 4 TYPE MUMAN DET PNNNN 1kr1 2.480 2 GH -4.494 dBr
RL RF 50 Ω enter Freq 13.265(Ref Offset 1. 0 dB/div Ref 11.90 0 99 1 1.00 8.1 8.1 8.1	AC AC D000000 GHz F B dB dB dB dB dB dB dB dB dB	SENSE PNO: Fast →→ Tr Gain:Low ##	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 12 3 4 TYPE MUMAN DET PNNNN 1kr1 2.480 2 GH -4.494 dBr
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 D dB/div Ref 11.90 d 90 1 1 1 81 1 81 1 81 1 81 1 81 1 81 1	AC AC D000000 GHz F B dB dB dB dB dB dB dB dB dB	SENSE PNO: Fast →→ Tr Gain:Low ##	:INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE II 2 3 4 5 TYPE M MMM DET P NNNN Akr1 2.480 2 GH -4.494 dBr -24.30 dE
RL RF 50 Ω enter Freq 13.265(Ref Offset 1. 0 dB/div Ref 11.90 (99 100 10 10 8.1 8.1 8.1 8.1 8.1 8.1 8.1	AC AC D000000 GHz F B dB dB dB dB dB dB dB dB dB	SENSE PNO: Fast →→ Tr Gain:Low ##	INT	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE U 2 3 4 5 TYPE M WHAT 02, 34 5 DET P NNNN 1kr1 2.480 2 GH -4.494 dBr -24 30 dE
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.5 0 dB/div Ref 11.90 d 1 div 1 0 dB/div Ref 11.90 d 1 div 1 1 d	AC AC D000000 GHz F B dBm A A A A A A A A A A A A A	PNO: Fast FGain:Low	INT ig: Free Run tten: 20 dB	ALIGN AUTO Avg Type	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE 12 3 4 TYPE MUMAN DET PNNNN 1kr1 2.480 2 GH -4.494 dBr
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 0 dB/div Ref 11.90 (1 1 10 1 10 1 11 1 12 N 14 1 15 1 16 1 17 1 18 1 19 1 10 1 11 1	AC AC D000000 GHz F F B dB dBm ABm ABm ABm ABM ABM ABM ABM ABM ABM ABM ABM	PNO: Fast → Tr Gain:Low → Tr Gain:Low → Tr #/ 5 5 5 #VBW 31 ¥VBW 31 Y -4.494 dBm -44.330 dBm	INT ig: Free Run tten: 20 dB	ALIGN AUTO Avg Type Avg]Hold:	: Log-Pwr 10/10	08:40:21 PM Mar02, 20 TRACE II 2 3 4 5 TYPE M MARN 1kr1 2.480 2 GH -4.494 dBr -24.30 6 -24.30 6 Stop 26.50 GH 2.530 s (30001 pts
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 0 dB/div Ref 11.90 (9 1 10 1 81 1 82 1 81 1 82 1 83 1 94 1	AC AC D000000 GHz F F D00000 GHz F F F F S D00000 GHz F S S S S S S S S S S S S S	PN0: Fast → Tr Gain:Low → Tr Gain:Low → Tr #/#/ 5 5 5 7 7 4.494 dBm -44.330 dBm -44.330 dBm -44.330 dBm -58.621 dBm	IINT iig: Free Run tten: 20 dB iiig: A state of the sta	ALIGN AUTO Avg Type Avg]Hold:	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE J2 34 3 TYPE M Mar 02, 20 DET P NNNN Akr1 2.480 2 GH -4.494 dBr -24 30 dB -24 30 dB
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 0 dB/div Ref 11.90 (90 1 1 1 82 1 83 1 84 1 85 1 90 1 91 1 92 1 93 1 <	AC AC D000000 GHz F F B D D D D D D D D D D D D D	PN0: Fast → Tr Gain:Low → Tr Gain:Low → Tr #/#/ 5 5 5 7 7 4.494 dBm -44.330 dBm -44.330 dBm -44.330 dBm -58.621 dBm	IINT iig: Free Run tten: 20 dB iiig: A state of the sta	ALIGN AUTO Avg Type Avg]Hold:	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE J2 34 3 TYPE M Mar 02, 20 DET P NNNN Akr1 2.480 2 GH -4.494 dBr -24 30 dB -24 30 dB
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 0 dB/div Ref 11.90 (1 1 8.1	AC AC D000000 GHz F F D00000 GHz F F F F S D00000 GHz F S S S S S S S S S S S S S	PN0: Fast → Tr Gain:Low → Tr Gain:Low → Tr #/#/ 5 5 5 7 7 4.494 dBm -44.330 dBm -44.330 dBm -44.330 dBm -58.621 dBm	IINT iig: Free Run tten: 20 dB iiig: A state of the sta	ALIGN AUTO Avg Type Avg]Hold:	: Log-Pwr 10/10	08:40:21 PM Mar02, 20 TRACE II 2 3 4 5 TYPE M MARN 1kr1 2.480 2 GH -4.494 dBr -24.30 6 -24.30 6 Stop 26.50 GH 2.530 s (30001 pts
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 0 dB/div Ref 11.90 (1 div Ref 11.90 (2 div Ref 11.90 (AC AC D000000 GHz F F D00000 GHz F F F F S D00000 GHz F S S S S S S S S S S S S S	PN0: Fast → Tr Gain:Low → Tr Gain:Low → Tr #/#/ 5 5 5 7 7 4.494 dBm -44.330 dBm -44.330 dBm -44.330 dBm -58.621 dBm	IINT iig: Free Run tten: 20 dB iiig: A state of the sta	ALIGN AUTO Avg Type Avg]Hold:	: Log-Pwr 10/10	08:40:21 PM Mar 02, 20 TRACE J2 34 3 TYPE M Mar 02, 20 DET P NNNN Akr1 2.480 2 GH -4.494 dBr -24 30 dB -24 30 dB



Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 2.40200	00000 GHz			AUTO Avg Type: Log-Pwr Avg Hold: 100/100	08:41:15 PM Mar 02, 20 TRACE 1 2 34 5 TYPE MWWW DET P N N N
Ref Offset 1.8		Gain:Low #Atten	1: 20 dB	Mkr1	2.401 982 95 GH
dB/div Ref 11.84	dBm				-2.105 dBr
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G				071710	
	·			STATUS	
Agilent Spectrum Analyzer - Swe		us NVNT 3-D			- D
RL RF 50 Ω	ept SA 2 AC 0000000 GHz	SENSE:INT	DH1 2402MH	Iz Emission	08:41:47 PM Mar 02, 20 TRACE 1234 5
RL RF 50 Ω	ept SA 2 AC 000000 GHz PN	SENSE:INT	DH1 2402MH	Iz Emission	08:41:47 PM Mar 02, 20 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNN
RL RF 50 Q enter Freq 13.2650 Ref Offset 1.	ept SA 2 AC 000000 GHz PN IFG 84 dB	SENSE:INT	DH1 2402MH	Iz Emission	08:41:47 PM Mar 02, 202
RE 015.000 enter Freq 13.2650 Ref Offset 1: 0 dB/div Ref 11.84	ept SA 2 AC 000000 GHz PN IFG 84 dB	SENSE:INT	DH1 2402MH	Iz Emission	08:41:47 PMMar 02, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN Mkr1 2.401 7 GH
RL RF 50 Ω enter Freq 13.265(Ref Offset 1: 0 dB/div Ref 11.84	ept SA 2 AC 000000 GHz PN IFG 84 dB	SENSE:INT	DH1 2402MH	Iz Emission	08:41:47 PMMar 02, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN Mkr1 2.401 7 GH
RL RF 50 Ω enter Freq 13.265(Ref Offset 1: 0 dB/div Ref 11.84 9 184 184 8.2	ept SA 2 AC 0000000 GHz PN IFC 84 dB dBm	SENSE:INT	DH1 2402MH	Iz Emission	08:41:47 PMMar 02, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN Mkr1 2.401 7 GH
RL RF 50 Ω enter Freq 13.265(Ref Offset 1: 0 dB/div Ref 11.84 9 1.84 1.84 8.2 8.2	eptSA 2 AC 2000000 GHz PN IFC 84 dB dBm	SENSE:INT NO: Fast →→ Trig: F Jain:Low #Atten	DH1 2402MH	Iz Emission	08:41:47 PMMar 02, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN Mkr1 2.401 7 GH
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RL RF 50 Ω enter Freq 13.265(Ref Offset 1: 0 dB/div Ref 11.84 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eptSA 2 AC 2000000 GHz PN IFC 84 dB dBm	SENSE:INT NO: Fast →→ Trig: F Jain:Low #Atten	DH1 2402MH	Iz Emission	08:41:47 PMMar 02, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN Mkr1 2.401 7 GH
enter Freq 13.2650 Ref Offset 1.	eptSA 2 AC 2000000 GHz PN IFC 84 dB dBm	SENSE:INT NO: Fast →→ Trig: F Jain:Low #Atten	DH1 2402MH	Iz Emission	08:41:47 PMMar 02, 20: TRACE 1 2 3 4 5 TYPE MWWW DET P NNNN Mkr1 2.401 7 GH
RL RF 50 Q enter Freq 13.265(Ref Offset 13.265(0 dB/div Ref 11.84 0 dB/div Ref 11.84 1 a 1 3 a 1	eptSA 2 AC 2000000 GHz PN IFC 84 dB dBm	VO: Fast + Trig: F Bain:Low #Atten	DH1 2402MF	Auto	08:41:47 PMAr 02, 20: TRACE [] 2:3 4 3 TYPE MININ DET P MININ Mkr1 2:401 7 GH -4.126 dBn -22:11 dB
RL RF 50 Ω enter Freq 13.265(Ref Offset 1: 0 dB/div Ref 11.84 0 dB/div Ref 1 8 2 1 8 2 1 8 2 1 8 2 1 8 2 1 8 2 1 9 2 1 1 30 MHz Res BW 100 kHz Reg MMD0E TRC SCL KR MODE TRC SCL	x	VO: Fast → Trig: F Sain:Low / Trig: F #Atten	DH1 2402MF	Iz Emission	08:41:47 PM Mar 02, 20: TRACE [] 2:3 4 3 TYPE MUMUM DET P MUMU Mkr1 2:401 7 GH -4.126 dBn -2211 65
RL RF 50 Q enter Freq 13.265(Ref Offset 13.265(0 dB/div Ref 11.84 1 dB/div 1 2 dB/div 1 2 dB/div 1 2 dB/div 1 1 dB/div 1	2 AC 000000 GHz PN IFC	VC: Fast →→→ Trig: F sain:Low → #Atten	ALIGN Free Run 20 dB	Iz Emission	08:41:47 PM Mar 02, 20: TRACE [] 2:3 4 3 TYPE MININ Mkr1 2:401 7 GH -4.126 dBn -2211 03 -2211 03 Stop 26.50 GH ep 2.530 s (30001 pts
RL RF 50.0 enter Freq 13.265(Ref Offset 1: 0 0 dB/div Ref 11.84 0 1 d1 1 1 316 1 1 317 1 1 318 1 1 319 1 1 314 1 1	EPISA 2 AC 2 AC 2 AC 2 AC PN IFC 84 dB dBm 4 4 4 4 2 A01 7 GHz	VO: Fast →→ Trig: F sain:Low → #Atten	ALIGN Free Run 20 dB	Iz Emission	08:41:47 PM Mar 02, 20: TRACE [] 2:3 4 3 TYPE MININ Mkr1 2:401 7 GH -4.126 dBn -2211 03 -2211 03 Stop 26.50 GH ep 2.530 s (30001 pts
RL RF 50 Q enter Freq 13.265(Ref Offset 13.265(0 dB/div Ref 11.84 9	x 2.401 7 GHz 4.003 4 GHz 2.401 7 GHz 4.803 4 GHz 4.803 6 GHz 4.803 4 GHz 4.803 6 GHz 4.803 6 GHz 4.803 4 GHz 4.803 6 GHz 4.803 4 GHz 4.803 6 GHz 4.803 4 GHz 4.	V0: Fast →→→ Trig: F sain:Low → #Atten	ALIGN Free Run 20 dB	Iz Emission	08:41:47 PM Mar 02, 20: TRACE [] 2:3 4 3 TYPE MININ Mkr1 2:401 7 GH -4.126 dBn -2211 03 -2211 03 Stop 26.50 GH ep 2.530 s (30001 pts
RL RF 50.0 enter Freq 13.265(Ref Offset 1: 0 dB/div Ref 11.84 0 dB/div Ref 11.84 1 1 1 1 2 2 2 2 316 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 34 1 35 1 3 1 3 1 4 1 5 1	x 2.401 7 GHz 4.003 4 GHz 2.401 7 GHz 4.803 4 GHz 4.803 6 GHz 4.803 4 GHz 4.803 6 GHz 4.803 6 GHz 4.803 4 GHz 4.803 6 GHz 4.803 4 GHz 4.803 6 GHz 4.803 4 GHz 4.	V0: Fast →→→ Trig: F sain:Low → #Atten	ALIGN Free Run 20 dB	Iz Emission	08:41:47 PM Mar 02, 20: TRACE [] 2:3 4 3 TYPE MININ Mkr1 2:401 7 GH -4.126 dBn -2211 03 -2211 03 Stop 26.50 GH ep 2.530 s (30001 pts



Agilent Spectrum Analyzer - Swe R L RF 50 Ω		SENSE:INT	ALIGN AUTO		08:42:29 PM Mar 02, 20
enter Freq 2.44100	DOOOO GHz	D: Wide Trig: Fr ain:Low #Atten:	Avg Ty ee Run Avg Ho	pe: Log-Pwr d: 100/100	TRACE 1234 TYPE MWWW DET PNNN
Ref Offset 1.8 dB/div Ref 11.86 (36 dB			Mkr1 2.	440 827 75 GH -3.231 dB
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enter 2.4410000 GH: Res BW 100 kHz	Z	#VBW 300 ki	z	Sween_2	Span 1.500 MH .000 ms (30001 pt
G			STATUS	· · · · ·	
	Tx. Spuriou	us NVNT 3-D	H1 2441MHz	Emission	
A 11 1 C 1 A 1 C	et CA				
RL RF 50 Ω	AC	SENSE:INT	ALIGN AUTO	During the second secon	08:43:00 PM Mar 02, 20
RL RF 50 Ω	AC D00000 GHz PN	0: Fast ↔ Trig: Fr	ee Run Avg Ty Avg Ho	pe: Log-Pwr d: 10/10	TRACE 1234
RL RF 50 Ω enter Freq 13.2650 Ref Offset 1.	AC DOOOOOO GHZ PN IFG 86 dB	0:Fast ⊶⊷ Trig:Fr	ee Run Avg Ty Avg Ho	d: 10/10	TRACE 1234 TYPE MWWW DET PNNN
RL RF 50 Ω enter Freq 13.2650 Ref Offset 1.3 0 dB/div Ref 11.86 0 99	AC DOOOOOO GHZ PN IFG 86 dB	0: Fast ↔ Trig: Fr	ee Run Avg Ty Avg Ho	d: 10/10	TRACE 1234 TYPE MWWW DET PNNN
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 0 dB/div Ref Offset 1.86 0 dB/div Ref 11.86	AC DOOOOOO GHZ PN IFG 86 dB	0: Fast ↔ Trig: Fr	ee Run Avg Ty Avg Ho	d: 10/10	TRACE 1234 TYPE MWWW DET PNNN
RL RF 50 Ω enter Freq 13.265(Ref Offset 1.3 0 dB/div Ref 11.86 9 1 .14 1	AC DOOOOOO GHZ PN IFG 86 dB	0: Fast ↔ Trig: Fr	ee Run Avg Ty Avg Ho	d: 10/10	TRACE 1234 TYPE MWWW DET PNNN
RL RF 50 Ω enter Freq 13.265(D dB/div Ref 11.86 99 99 1 1 1 81 81	AC PN IFG	O: Fast → Trig: Fr ain:Low #Atten:	ee Run Avg Ty Avg Ho	d: 10/10	TRACE 1234 TYPE MWWW DET PNNN
Ref Offset 1: Ref Offset 1: 0 dB/div Ref 11.86 (9 (1.14 8.1 1.14 8.1 1.14	AC DOOOOOO GHZ PN IFG 86 dB	0: Fast ↔ Trig: Fr	ee Run Avg Ty Avg Ho	d: 10/10	TRACE 1234 TYPE MWWW DET PNNN
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RL RF 50 Ω enter Freq 13.265(Ref Offset 1/. 0 dB/div Ref 11.86 0 99 14 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	AC 000000 GHz PN IFG 86 dB dBm	O: Fast → Trig: Fr ain:Low #Atten:	ee Run Avg Ty Avg Ho	d: 10/10	TRACE 1234 TYPE MWWW DET PNNN
Rt Ref Offset 13 Ref Offset 13 0 dB/div Ref 11.86 d 0 dB/div Ref 11.86 d 1 dB/div Re	AC 000000 GHz PN IFG 86 dB dBm	O: Fast #Atten: #Atten:	Avg Ty ee Run Avg Ho 20 dB		TRACE 12 3 4 TYPE MWWW DET PNNN Kr1 2.440 5 GH -4.492 dBI
RL RF 50 Ω enter Freq 13.265(Ref Offset 1: 0 dB/div Ref 11.86 c 0 dB/div Ref 11.86 c 0 dB/div Ref 11.86 c 1 1 86 1 81 1 82 1 83 1 84 1 85 1 86 1 87 1 88	AC D00000 GHz PN IFG 86 dB dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	Trig: Fr sin:Low	Avg Ty ee Run Avg Ho 20 dB	d: 10/10	TRACE 12 34 TYPE MINIMU Kr1 2.440 5 GH -4.492 dB -23.23 d
RL RF 50 Ω enter Freq 13.265(Ref Offset 13 0 dB/div Ref 11.86 d 0 dB/div Ref 11.86 d 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AC 000000 GHz PN IFG 86 dB dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	Trig: Fr #Atten: #XBW 300 kl Y F -4.492 dBm	Avg Ty ee Run Avg Ho 20 dB	d: 10/10	TRACE 12 3 4 TYPE MUNICIPAL VIET PINNI Kr1 2.440 5 GH -4.492 dB1 -323 d -3323
RL RF 50 Ω enter Freq 13.265(Ref Offset 13 0 dB/div Ref 11.86 d 0 dB/div Ref 11.86 d 1 1 2 N 1 1 3 1 4 1 5 1	AC 000000 GHz PN IFG 86 dB dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	O: Fast → Trig: Fr #Atten:	Avg Ty ee Run Avg Ho 20 dB	d: 10/10	TRACE 12 3 4 TYPE MUNICIPAL VIET PINNI Kr1 2.440 5 GH -4.492 dB1 -323 d -3323
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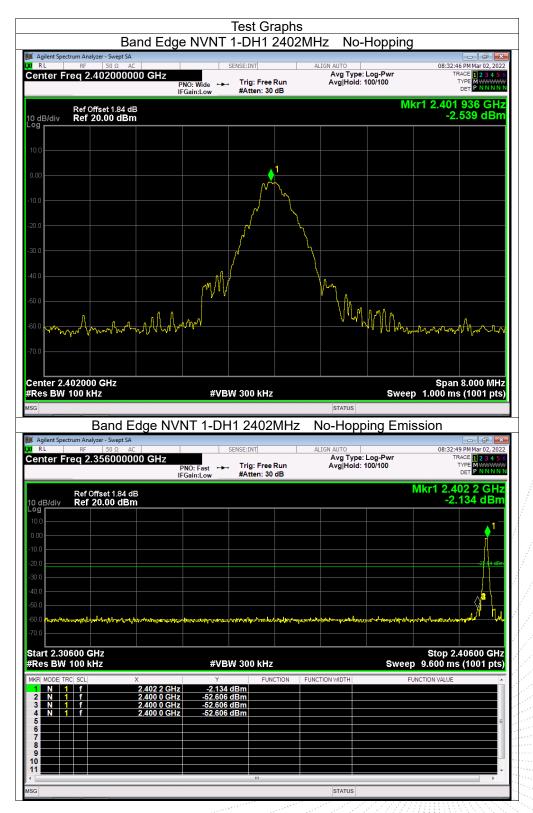
Edition: A.4

No.: BCTC/RF-EMC-007



Agilent Spectrum Analyzer - Swe		Spurious NV				- ¢
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Agilent Spectrum Analyzer - Swe R L RF 50 Ω	pt SA AC 000000 GHz	DUS NVNT 3-	DH1 248	0MHz E	mission Log-Pwr	08:44:26 PM Mar 02, 20 TRACE 12 3 4
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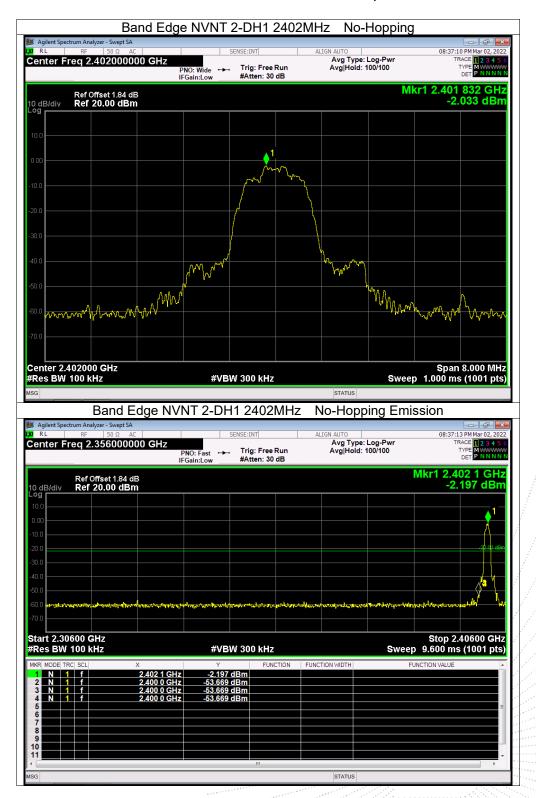
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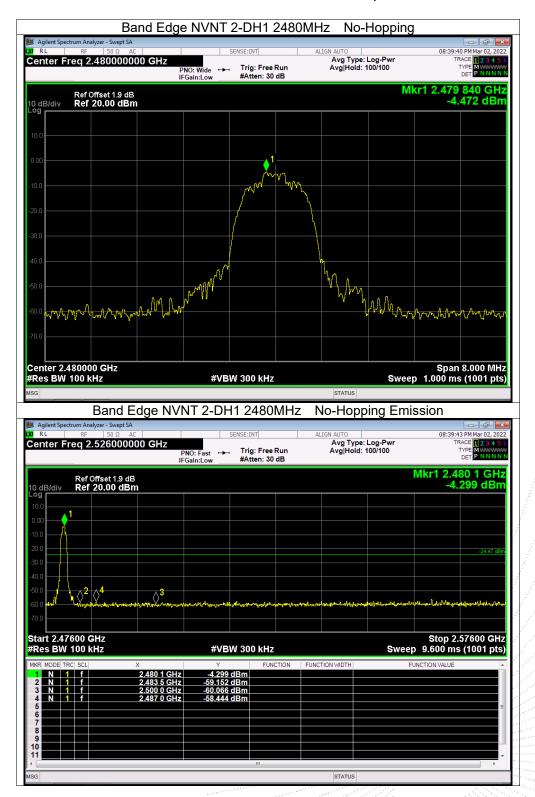




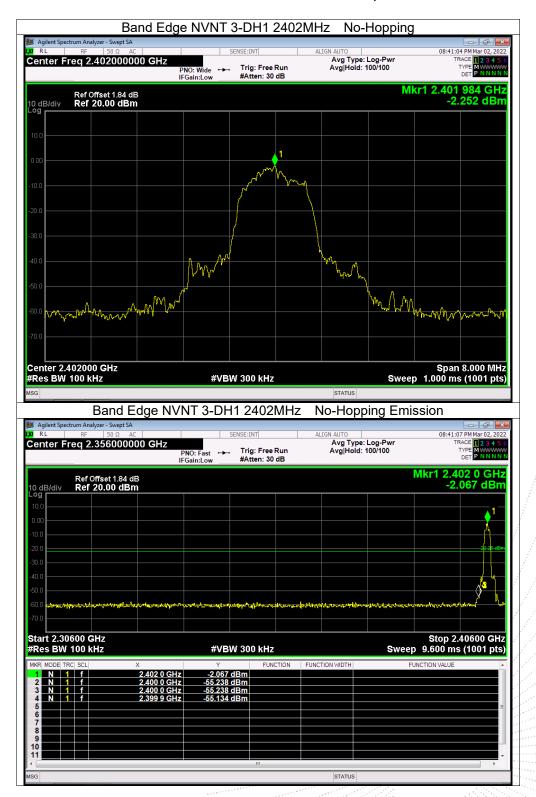




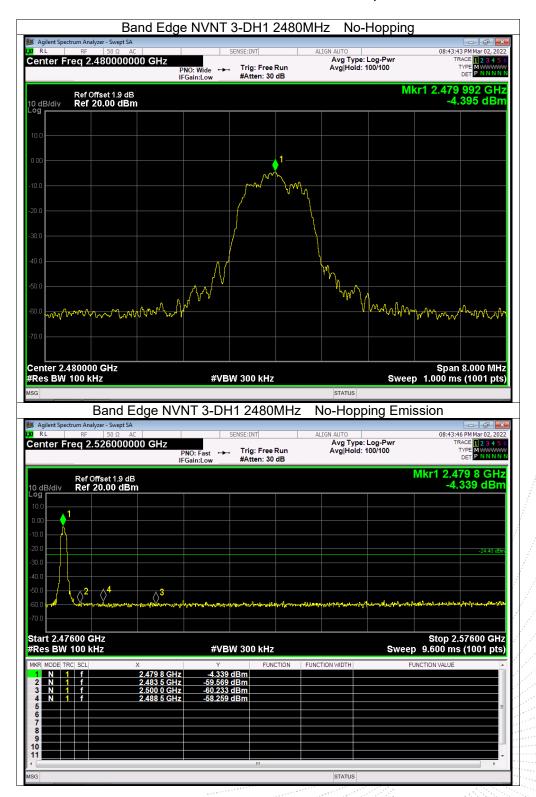












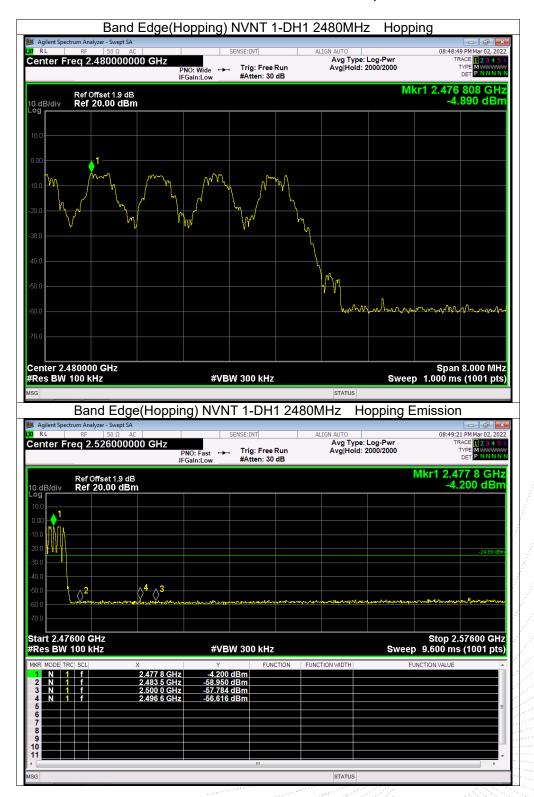
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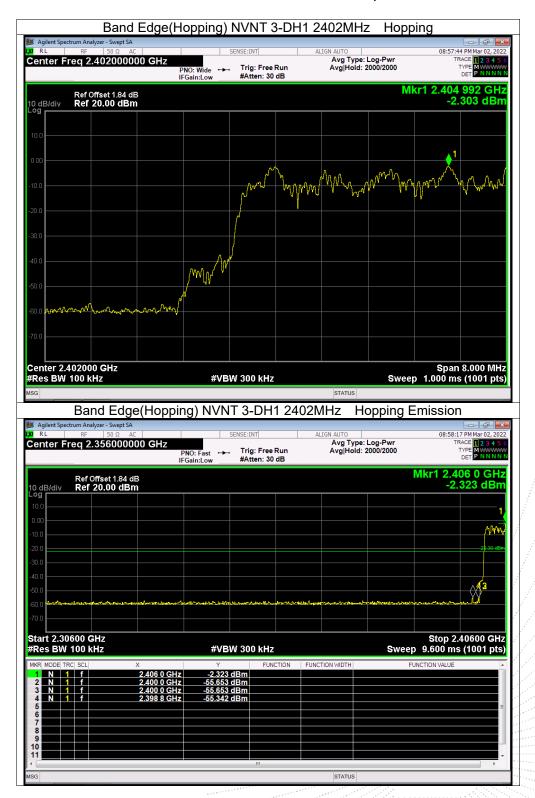
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J Agilent Spectrum Analyzer - Swept S	A	CTN .	CE-INT		00.55.0	
Center Freq 2.480000	P	NO:Wide ↔	SE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log Avg Hold: 200	a-Pwr TF	7 PM Mar 02, 2022 RACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N
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Band Edg Bill Agilent Spectrum Analyzer - Swept S 0.2 Center Freq 2.526000 Center Freq 2.5260000 Center Freq 2.5260000 Center Freq 2.526000000 Center Freq 2.52600000000 Center Freq 2.52600000000000000000000000000000000000	A AC OOO GHZ B B m 4 4 4 4 4 4 4 4 4 7 4 7 4 7 4 7 4 7 4	PNO: Fast FGain:Low #VBW 4,251 dB	SE:INT Trig: Free Run #Atten: 30 dB	80MHz Hop	08:56:3 g-Pwr 0/2000 TF 0/2000	29 PM Mar 02, 2022 44 CT 23 24 CT 2022 CT 25 CT 25 C
Band Edg Bit Agilent Spectrum Analyzer - Swept S 0.2 Center Freq 2.5260000 0 dB/div Ref Offset 1.9 d 0 dB/div Ref 20.00 dE 0 dB/div Ref 20.00 dE 10 dB	A AC OOO GHZ II B m A C II II II II II II II II II	PNO: Fast Gain:Low #VBW 4.251 dB -57.904 dB -57.904 d3 dB	SE:INT Trig: Free Run #Atten: 30 dB automatical and a second and	80MHz Hop	08:56:3 g-Pwr 0/2000 Mkr1 2.4 -4. -4. Stop 2. Sweep 9.600 ms	9 PM Mar 02, 2022 ACC 12 34 ACC 12 3
Band Edg Band Edg Mala Spectrum Analyzer - Swept S 0.2 Center Freq 2.5260000 10 dB/div Ref Offset 1.9 d 10 dB/div Ref 20.00 dB 10 0 10 0	AC 000 GHz 11 B m 3 C 3 C 477 1 GHz 2 2.483 5 GHz 3 C 477 1 GHz 2 2.485 5 GHz 3 C 477 1 GHz 2 2.485 5 GHz 3 C 477 1 GHz 2 2.485 5 GHz 3 C 477 1 GHz 3 2.485 5 GHz 3 C 477 1 GHZ 3 C 477	PNO: Fast Gain:Low #VBW 4.251 dB -57.904 dB -57.904 d3 dB	SE:INT Trig: Free Run #Atten: 30 dB automatical and a second and	80MHz Hop	08:56:3 g-Pwr 0/2000 Mkr1 2.4 -4. -4. Stop 2. Sweep 9.600 ms	9 PM Mar 02, 2022 ACC 12 34 ACC 12 3
Band Edg Band Edg Agilent Spectrum Analyzer - Swept S 0Ω Center Freq 2.5260000 Ref Offset 1.9 d 10 dB/div Ref 20.00 dB 10 00 1 10 00 1 10 00 1 10 0 0 10 0 10 0 0 10 0 1	A AC OOO GHZ II B m A C II II II II II II II II II	PNO: Fast Gain:Low #VBW 4.251 dB -57.904 dB -57.904 d3 dB	SE:INT Trig: Free Run #Atten: 30 dB automatical and a second and	80MHz Hop	08:56:3 g-Pwr 0/2000 Mkr1 2.4 -4. -4. Stop 2. Sweep 9.600 ms	24 52 000 GHz
Band Edg Agilent Spectrum Analyzer - Swept S Q RL RF 50 Ω Center Freq 2.5260000 Ref Offset 1.9 d 10 dB/div Ref 20.00 dB 10 0 10 0	A AC OOO GHZ II B m A C II II II II II II II II II	PNO: Fast Gain:Low #VBW 4.251 dB -57.904 dB -57.904 d3 dB	SE:INT Trig: Free Run #Atten: 30 dB automatical and a second and	80MHz Hop	08:56:3 g-Pwr 0/2000 Mkr1 2.4 -4. -4. Stop 2. Sweep 9.600 ms	24 52 000 GHz
Band Edg Bill Agilet Spectrum Analyzer - Swept S 0.2 Center Freq 2.5260000 0 dB/div Ref Offset 1.9 d 0	A AC OOO GHZ II B m A C II II II II II II II II II	PNO: Fast Gain:Low #VBW 4.251 dB -57.904 dB -57.904 d3 dB	SE:INT Trig: Free Run #Atten: 30 dB automatical and a second and	80MHz Hop	08:56:3 g-Pwr 0/2000 Mkr1 2.4 -4. -4. Stop 2. Sweep 9.600 ms	224 52 CEM 57600 GHz (1001 pts)







Agilent Spectrum Analyzer - Swep		opping) NVN		2480MHz	Hopping	
RL RF 50 Ω	AC	SENSE:INT	r	ALIGN AUTO		09:02:17 PM Mar 02, 2
enter Freq 2.48000	Р		Free Run en: 30 dB	Avg Type: Log Avg Hold: 2000	g-Pwr)/2000	TRACE 1234 TYPE MWWW DET PNNN
Ref Offset 1.9 dB/div Ref 20.00 d	dB Bm				Mkr1 2	.479 992 GH -4.479 dB
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enter 2.480000 GHz						Span 8.000 MI
Res BW 100 kHz		#VBW 300	kHz			5pan 8.000 Mi 00 ms (1001 pt
3						
				STATUS		
Band Ec	lge(Hoppir	ng) NVNT 3-[DH1 2480		ping Emis	sion
Agilent Spectrum Analyzer - Swep	ot SA			MHz Hop		- F
	AC A	SENSE:INT			g-Pwr	09:02:50 PM Mar 02, 20
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.52600 Ref Offset 1.9	AC AC F AC F AC AC A	SENSE:INT	r Free Run	MHZ Hop	g-Pwr 0/2000	09:02:50 PM Mar 02, 20 TRACE 1 2 3 4 TYPE MWWW DET P NNN
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.52600 Ref Offset 1.9 dB/div Ref 20,00 d	AC AC F AC F AC AC A	SENSE:INT	r Free Run	MHZ Hop	g-Pwr 0/2000	09:02:50 PM Mar 02, 20 TRACE 1 2 3 4 TYPE MWWW DET P NNN
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.52600 Ref Offset 1.9 dB/div Ref 20.00 d	AC AC F AC F AC AC A	SENSE:INT	r Free Run	MHZ Hop	g-Pwr 0/2000	09:02:50 PM Mar 02, 20 TRACE 1 2 3 4 TYPE MWWW DET P NNN
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.52600 Ref Offset 1.9 dB/div Ref 20.00 d	AC AC F AC F AC AC A	SENSE:INT	r Free Run	MHZ Hop	g-Pwr 0/2000	09:02:50 PM Mar 02, 21 TRACE 2 34 TYPE MWWW DET PNNN 2.4777 0 GF -4.303 dB
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.52600 dB/div Ref Offset 1.9 dB/div Ref 20.00 d	AC AC F AC F AC AC A	SENSE:INT	r Free Run	MHZ Hop	g-Pwr 0/2000	09:02:50 PM Mar 02, 2 TRACE 1 2 34 TYPE MWWW DET P NNN 2.4777 0 GH -4.303 dB
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 Ref Offset 1.9 Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC F AC F AC AC A	SENSE:INT	r Free Run	MHZ Hop	g-Pwr 0/2000	09:02:50 PM Mar 02, 21 TRACE 2 34 TYPE MWWW DET PNNN 2.4777 0 GF -4.303 dB
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.52600 dB/div Ref Offset 1.9 00 1 00 1 00 00 00 00 00 00	AC AC F AC F AC AC A	SENSE:INT	Free Run en: 30 dB	MHZ Hop	j-Pwr 0/2000 Mkr1	09:02:50 PM Mar 02, 20 TRACE 2 34 TYPE M WWW DET NWW 2.4777 0 GH -4.303 dBI
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 Ref Offset 1.9 Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC F AC F AC AC A	SENSE:INT PNO: Fast →→ Trig: Gain:Low #Atte	Free Run n: 30 dB	MHZ Hop	j-Pwr 0/2000 Mkr1	09:02:50 PM Mar 02, 2 TRACE 2 34 TYPE M WWN 2.4777 0 GH -4.303 dB -20:49 -20:49 00 2.57600 GH 10 ms (1001 pt
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 Ref Offset 1.9 rdB/div Ref 20.00 d 00 00 00 00 00 00 00 00 00 0	AC 00000 GHz	SENSE:IMT PNO: Fast Gain:Low #Atte ##Atte ##Atte	Free Run n: 30 dB	MHz Hop	-Pwr 0/2000 Mkr1	09:02:50 PM Mar 02, 2 TRACE 2 34 TYPE M WWN 2.4777 0 GH -4.303 dB -20:49 -20:49 00 2.57600 GH 10 ms (1001 pt
Agilent Spectrum Analyzer - Swep RL RF 50 Ω Ref Offset 1.9 Ref Offset 1.9 dB/div Ref 20.00 d 00 1 01 2 02 4 03 2 04 2 05 4 06 2 07 4 08 4 09 4 00 4 01 4 02 4 03 4 04 4 05 4 06 4 07 4 08 4	AC 40000 GHz F 100000 GHz F 11 12 13 13 14 15 15 15 15 15 15 15 15 15 15	SENSE:IMT PNO: Fast Gain:Low #Atte ##Atte ##Atte	Free Run n: 30 dB	MHz Hop	-Pwr 0/2000 Mkr1	09:02:50 PM Mar 02, 2 TRACE 2 34 TYPE M WWN 2.4777 0 GH -4.303 dB -20:49 -20:49 00 2.57600 GH 10 ms (1001 pt
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.526000 dB/div Ref Offset 1.9 Ref Offset 1.9 Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AC 40000 GHz F 100000 GHz F 11 12 13 13 14 15 15 15 15 15 15 15 15 15 15	SENSE:IMT PNO: Fast → Trig: Gain:Low #Atte #VBW 300 #VBW 300 Y -4.303 dBm -58.417 dBm -58.27 dBm -58.27 dBm -56.953 dBm	Free Run n: 30 dB	MHz Hop	-Pwr 0/2000 Mkr1	09:02:50 PM Mar 02, 2 TRACE 2 34 TYPE M WHAT 02, 2 2.4777 0 GH -4.303 dB1 -24.40 d -24.40 d -24.40 d -24.40 d -24.40 d



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.

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10.4 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.860	Pass
NVNT	1-DH1	2441	0.824	Pass
NVNT	1-DH1	2480	0.891	Pass
NVNT	2-DH1	2402	1.234	Pass
NVNT	2-DH1	2441	1.284	Pass
NVNT	2-DH1	2480	1.254	Pass
NVNT	3-DH1	2402	1.249	Pass
NVNT	3-DH1	2441	1.251	Pass
NVNT	3-DH1	2480	1.248	Pass

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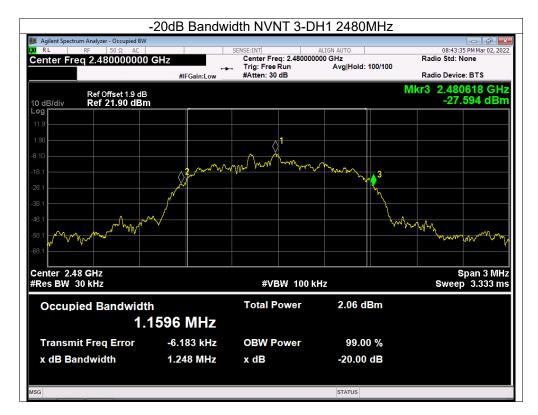












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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



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.

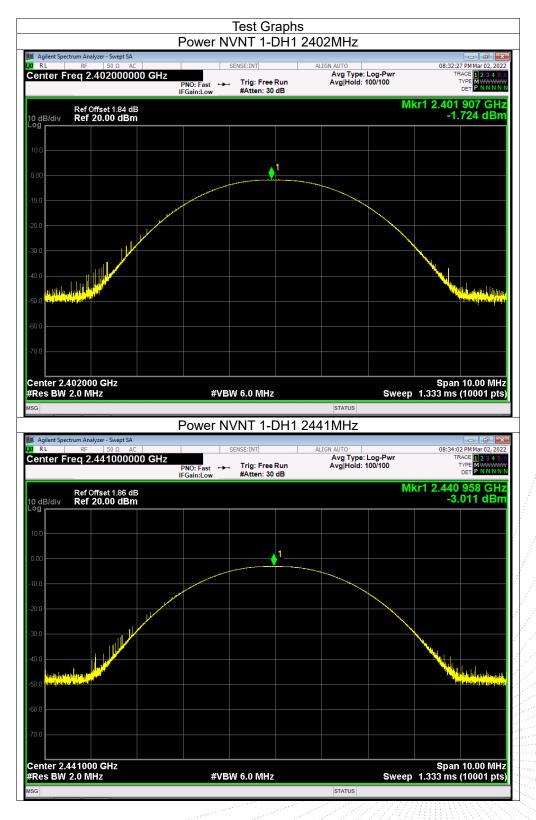
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.

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

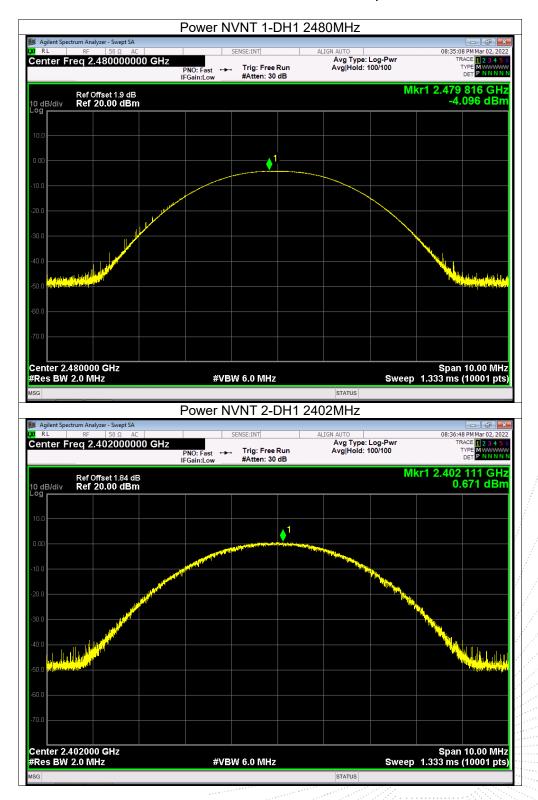
11.4 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
1-DH1	2402	-1.72	21	Pass
1-DH1	2441	-3.01	21	Pass
1-DH1	2480	-4.1	21	Pass
2-DH1	2402	0.67	21	Pass
2-DH1	2441	-0.69	21	Pass
2-DH1	2480	-1.82	21	Pass
3-DH1	2402	1.21	21	Pass
3-DH1	2441	-0.19	21	Pass
3-DH1	2480	-1.34	21	Pass
	1-DH1 1-DH1 2-DH1 2-DH1 2-DH1 3-DH1 3-DH1	Mode (MHz) 1-DH1 2402 1-DH1 2441 1-DH1 2480 2-DH1 2402 2-DH1 2441 2-DH1 2441 3-DH1 2402 3-DH1 2441	Mode (MHz) Power (dBm) 1-DH1 2402 -1.72 1-DH1 2441 -3.01 1-DH1 2480 -4.1 2-DH1 2402 0.67 2-DH1 2441 -0.69 2-DH1 2480 -1.82 3-DH1 2402 1.21 3-DH1 2441 -0.19	Mode (MHz) Power (dBm) (dBm) 1-DH1 2402 -1.72 21 1-DH1 2441 -3.01 21 1-DH1 2480 -4.1 21 1-DH1 2402 0.67 21 2-DH1 2441 -0.69 21 2-DH1 2480 -1.82 21 3-DH1 2402 1.21 21 3-DH1 2402 1.21 21

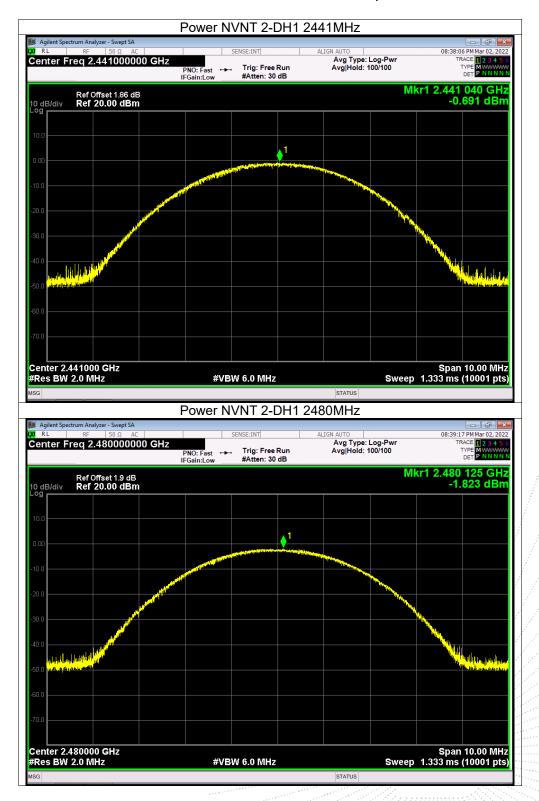




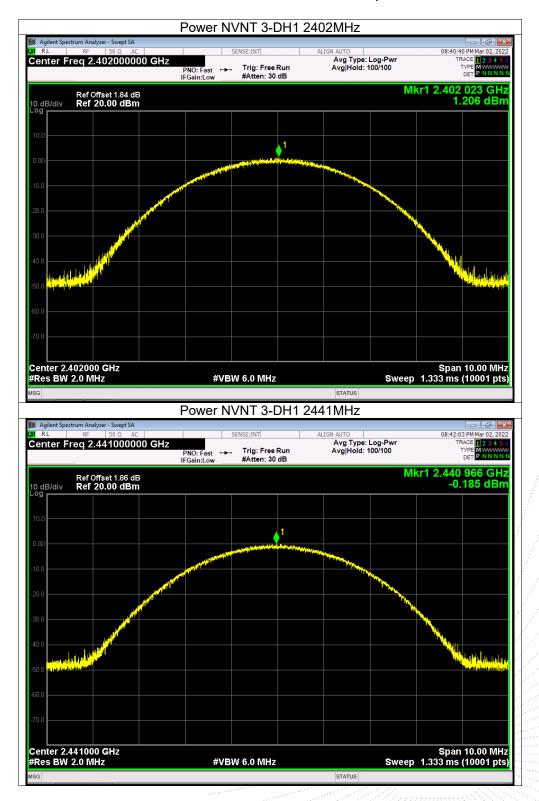




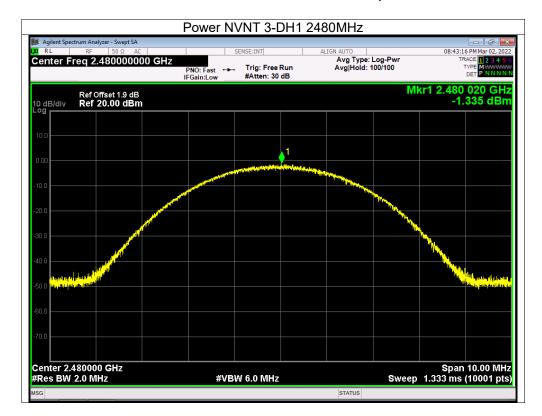












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12. Hopping Channel Separation

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	2401.826	2402.826	1.000	0.860	Pass
NVNT	1-DH1	2440.826	2441.826	1.000	0.824	Pass
NVNT	1-DH1	2478.826	2479.826	1.000	0.891	Pass
NVNT	2-DH1	2401.826	2402.828	1.002	0.823	Pass
NVNT	2-DH1	2440.826	2441.824	0.998	0.856	Pass
NVNT	2-DH1	2478.826	2479.828	1.002	0.836	Pass
NVNT	3-DH1	2401.984	2402.982	0.998	0.833	Pass
NVNT	3-DH1	2440.982	2441.982	1.000	0.834	Pass
NVNT	3-DH1	2478.984	2479.984	1.000	0.832	Pass

12.4 Test Result



Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	SENSE:INT	ALIGN AUTO Avg Type: Log	08:45:04 PM Mar 02, 202
enter Freq 2.402500000 GHz	PNO: Wide Trig: Free R IFGain:Low #Atten: 30 of	Run Avg Hold:>100/	
Ref Offset 1.84 dB			Mkr1 2.401 826 GHz -3.554 dBm
dB/div Ref 20.00 dBm			-3.554 dBn
0.0		\ <mark>2</mark>	
D.0			
D.0			
3.0			
enter 2.402500 GHz			Span 2.000 MH;
Res BW 30 kHz	#VBW 100 kHz		Sweep 2.133 ms (1001 pts
R MODE TRC SCL X 1 N 1 f 2.401 826 GH 2 N 1 f 2.402 826 GH	Y FUNC Hz -3.554 dBm Hz -3.602 dBm	TION FUNCTION WIDTH	FUNCTION VALUE
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8			
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3	m	STATUS	•
		STATUS	
	CFS NVNT 1-DI		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	CFS NVNT 1-D		ල - (윤) 💽 08:46:30 PM Mar 02, 202
	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Run AvgHold:>100/	08:46:30 PM Mar 02, 202
RL RF 50 Q AC enter Freq 2.441500000 GHz	SENSE:INT	H1 2441MHz ALIGN AUTO Avg Type: Log Run AvgHold:>100/	08:46:30 PM Mar 02, 202 -Pwr TRACE 1 2 3 4 5 100 TYPE MWWWW DET PNNNN
RL RF 50 Ω AC	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Run AvgHold:>100/	08:46:30 PM Mar 02, 202
RL RF 50 Q AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB Ref 20.00 dBm	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Avg Hold:>100/ iB	08:46:30 PMrar 02,202 Pwr TRACE 1 2 34 5 100 TYPE M DET PNNNN Mkr1 2.440 826 GH2
RL RF 50.0 AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB Ref 20.00 dBm	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Run AvgHold:>100/	08:46:30 PMrar 02,202 Pwr TRACE 1 2 34 5 100 TYPE M DET PNNNN Mkr1 2.440 826 GH2
RL RF 50 Q AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB Ref 20.00 dBm	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Avg Hold:>100/ iB	08:46:30 PMrar 02,202 Pwr TRACE 1 2 34 5 100 TYPE M DET PNNNN Mkr1 2.440 826 GH2
RL RF 50 AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB Ref 20.00 dBm	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Avg Hold:>100/ iB	08:46:30 PMrar 02,202 Pwr TRACE 1 2 34 5 100 TYPE M DET PNNNN Mkr1 2.440 826 GH2
RL RF 50.0 AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB dB/div Ref 20.00 dBm	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Avg Hold:>100/ iB	08:46:30 PMrar 02,202 Pwr TRACE 1 2 34 5 100 TYPE M DET PNNNN Mkr1 2.440 826 GH2
RL RF 50 AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB Ref 20.00 dBm 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Avg Hold:>100/ iB	08:46:30 PMrar 02, 202 Pwr TRACE 1 2 3 4 5 100 TYPE W DET PNNNN Mkr1 2.440 826 GH2
RL RF 50.0 AC enter Freq 2.441500000 GHz rdB/div Ref Offset 1.86 dB 9 1 00 1 00 1 00 1 00 1 00 0 00 0	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Avg Hold:>100/ iB	08:46:30 PMM ar 02, 202 Pwr TRACE [] 2 3 4 5 TYPE MUMM DET P IN NN Mkr1 2.440 826 GHz -4.768 dBm
RL RF 50 AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB Ref 20.00 dBm 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PNO: Wide Trig: Free R	H1 2441MHz ALIGN AUTO Avg Type: Log Avg Hold:>100/ iB	08:46:30 PMrar 02,202 Pwr TRACE 1 2 34 5 100 TYPE M DET PNNNN Mkr1 2.440 826 GH2
RL RF 50.0 AC enter Freq 2.441500000 GHz Ref 0ffset 1.86 dB Ref 20.00 dBm 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SENSE:INT PNO: Wide IFGain:Low Trig: Free R #Atten: 30 of #Atten: 40 of #VBW 100 kHz	H1 2441MHz	08:46:30 PMM ar 02, 202 Pwr TRACE 23 4 5 100 Tree NINNN Mkr1 2.440 826 GHz -4.768 dBm
RL RF 50.0 AC enter Freq 2.441500000 GHz enter Freq 2.441500000 GHz enter Second enter Grifset 1.86 dB edd/div Ref 20.00 dBm 9 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 2 1 2 1 2	PNO: Wide Trig: Free R IFGein:Low #Atten: 30 c #VBW 100 kHz	H1 2441MHz	08:46:30 PMM ar 02, 202 Pwr TRACE [] 23 4 5 100 Trice [] 21 4 5 Trice [
RL RF 50.0 AC enter Freq 2.441500000 GHz Ref Offset 1.86 dB dB/div Ref 20.00 dBm 99 1 1 1 1 2.441500 GHz Ref Diffset 1.86 dB 3.00 3.00 99 1 1 1 90 1 1 2.440 826 GHz 80 30 KHz X X 1 1 1 2.441 826 GHz 1 1 1 2.441 826 GHz	PNO: Wide Trig: Free R IFGein:Low #Atten: 30 c #VBW 100 kHz	H1 2441MHz	08:46:30 PMM ar 02, 202 Pwr TRACE [] 23 4 5 100 Trice [] 21 4 5 Trice [
RL RF 50.0 AC enter Freq 2.441500000 GHz rdB/div Ref Offset 1.86 dB rdB/div Ref 20.00 dBm 9 1 00 1 00 1 00 0 0 0 <td>PNO: Wide Trig: Free R IFGein:Low #Atten: 30 c #VBW 100 kHz</td> <td>H1 2441MHz</td> <td>08:46:30 PMM ar 02, 202 Pwr TRACE [] 23 4 5 100 Trice [] 21 4 5 Trice [</td>	PNO: Wide Trig: Free R IFGein:Low #Atten: 30 c #VBW 100 kHz	H1 2441MHz	08:46:30 PMM ar 02, 202 Pwr TRACE [] 23 4 5 100 Trice [] 21 4 5 Trice [

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Agilent Spectrum Analyzer - Swi R L RF 50 S		CENCEJINT				09:49:27 DMM>: 02, 202
RL RF 50 Ω enter Freq 2.4795	00000 GHz		Free Run 1: 30 dB	ALIGN AUTO Avg Type: Lo Avg Hold:>10	g-Pwr	08:48:27 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Ref Offset 1 dB/div Ref 20.00	9 dB				Mkr1 2.	478 826 GH -5.778 dBm
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enter 2.479500 GHz	_					Span 2.000 MH
Res BW 30 kHz		#VBW 100	(Hz		Sweep 2.13	3 ms (1001 pts
KR MODE TRC SCL	× 2.478 826 GHz	۲ -5.778 dBm	FUNCTION FUI	NCTION WIDTH	FUNCTION	/ALUE /
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Agilent Spectrum Analyzer - Sw		FS NVNT 2	-DH1 240	)2MHz		
	2 AC	SENSE:INT		ALIGN AUTO Avg Type: Lo		08:49:50 PM Mar 02, 202
	PN		Free Run 1: 30 dB	Avg Hold:>10	Ō/100	
Ref Offset 1 dB/div Ref 20.00	84 dB dBm				Mkr1 2.	401 826 GH: -3.597 dBn
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enter 2.402500 GHz						Span 2.000 MH
Res BW 30 kHz		#VBW 100			Sweep 2.13	3 ms (1001 pts
KR MODE TRC SCL	× 2.401 826 GHz	Y -3.597 dBm	FUNCTION FUI	NCTION WIDTH	FUNCTION	/ALUE .
	2.402 828 GHz	-3.609 dBm				
3						=
3 4 5						
3 4 5 6 7 8						
3 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						



Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	SENSE	TNT	ALIGN AUTO	00-51	💶 🗗 🗾
enter Freq 2.441500000	) GHz PNO: Wide	rig: Free Run Atten: 30 dB	AUGN AUTO Avg Type: Log Avg Hold:>100/	-Pwr 1	TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
Ref Offset 1.86 dB	ii Gameon			Mkr1 2.440	) 826 GHz .736 dBm
0 dB/div Ref 20.00 dBm					
).00			<mark>2</mark>		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	$\sim$	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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enter 2.441500 GHz				Snar	n 2.000 MHz
Res BW 30 kHz	#VBW 1	00 kHz		Sweep 2.133 m	
KR MODE TRC SCL X 1 N 1 f 2.44	Y 10 826 GHz -4.736 dBn		FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f 2.44	11 824 GHz -4.836 dBn	n			
4					
7 8					
9 0 0					
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G			STATUS		
Agilent Spectrum Analyzer - Swept SA	CFS NVN	T 2-DH1 2			
RL RF 50 Ω AC	SENSE		480MHz Align Auto		31 PM Mar 02, 202
RL RF 50 Ω AC) GHz		480MHz	-Pwr	31 PM Mar 02, 202
RL RF 50 Ω AC enter Freq 2.479500000) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN 3 826 GH2
RL RF 50 Ω AC enter Freq 2.479500000) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN 3 826 GH2
RL RF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB Ref Offset 1.9 dB 0 dB/div Ref 20.00 dBm Ref 20.00 dBm) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN 8 826 GH2
RL RF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB Ref 20.00 dBm 0 dB/div Ref 20.00 dBm 1 0.0 1 1) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN 8 826 GH2
RL RF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB Ref Offset 1.9 dB 0 dB/div Ref 20.00 dBm Ref 20.00 dBm 0 0 1 1 0.0 1 1 0.0 0 1) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN 8 826 GH2
RL RF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB Ref Offset 1.9 dB D dB/div Ref 20.00 dBm Ref 20.00 dBm 0.0 1 1 0.0 1 1 0.0 0 1) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN 8 826 GH2
RL RF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB 0 dB/div Ref 20.00 dBm 90 0.00 0.00 0.00 0.00 0.00 0.00) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN 8 826 GH2
RL RF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB Ref Offset 1.9 dB 0 dB/div Ref 20.00 dBm Ref 0.00 dBm 0 0 0 1 0.00 1 1 0.00 0 1 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr /100 Mkr1 2.478	31 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN 3 826 GH2
RL PF 50.Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB 0 0 dB/div Ref 20.00 dBm 0 0 0 1 1 0 0 1 1 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) GHz PNO: Wide 🖵 T	rig: Free Run	480MHz	-Pwr 1100 Mkr1 2.478 -5	331 PM Mar 02, 202 TRACE 11 2 3 4 5 TYPE MARKEN 12 3 4 5 DET P NNNN 3 826 GH2 5, 786 dBm
RL PF 50.Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB B </td <td>) GHz PNO: Wide 🖵 T</td> <td>e:INT rig: Free Run Atten: 30 dB</td> <td>480MHz</td> <td>Pwr 1000 Mkr1 2.478 -5</td> <td>131 PM AF 02, 202 TRACE 1 2 3 4 5 TPPE M NNNN 3 826 GH2 786 dBm 1 2 3 4 5 1 3 4 5</td>) GHz PNO: Wide 🖵 T	e:INT rig: Free Run Atten: 30 dB	480MHz	Pwr 1000 Mkr1 2.478 -5	131 PM AF 02, 202 TRACE 1 2 3 4 5 TPPE M NNNN 3 826 GH2 786 dBm 1 2 3 4 5 1 3 4 5
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RL PF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB B </td <td>GHz PNO: Wide IFGain:Low T # VBW 1</td> <td>e:INT rig: Free Run Atten: 30 dB</td> <td>480MHz</td> <td>Pwr 1000 Mkr1 2.478 -5</td> <td>n 2.000 MHz s (1001 pts</td>	GHz PNO: Wide IFGain:Low T # VBW 1	e:INT rig: Free Run Atten: 30 dB	480MHz	Pwr 1000 Mkr1 2.478 -5	n 2.000 MHz s (1001 pts
RL PF 50 Ω AC enter Freq 2.479500000 Ref Offset 1.9 dB 0 0 dB/div Ref 20.00 dBm 0 2 N d f 2.47 3 d 6 0	PNO: Wide PNO: W	e:INT rig: Free Run Atten: 30 dB	480MHz	Pwr 1000 Mkr1 2.478 -5	131 PM AF 02, 202 TRACE 1 2 3 4 5 TPPE M NNNN 3 826 GH2 786 dBm 1 2 3 4 5 1 3 4 5
RL PF SO Q AC enter Freq 2.479500000 Ref Offset 1.9 dB 000000000000000000000000000000000000	PNO: Wide PNO: W	e:INT rig: Free Run Atten: 30 dB	480MHz	Pwr 1000 Mkr1 2.478 -5	131 PM AF 02, 202 TRACE 1 2 3 4 5 TPPE M NNNN 3 826 GH2 786 dBm 1 2 3 4 5 1 3 4 5
enter Freq 2.479500000 Ref Offset 1.9 dB Ref 20.00 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9	PNO: Wide PNO: W	e:INT rig: Free Run Atten: 30 dB	480MHz	Pwr 1000 Mkr1 2.478 -5	131 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE 1 2 3 4 5 0 ET P NNNN 3 826 GH2 5, 786 dBm 1 2 3 4 5 1 3 4



Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC		SENSE:INT	ALIGN AUTO	08:57:23 PM Mai	@ 💽
enter Freq 2.40250000	00 GHz PNO: Wi IFGain:L	de 🖵 Trig: Free Run	Avg Type: Log-F Avg Hold:>100/1	wr TRACE	2245
Ref Offset 1.84 dE 0 dB/div Ref 20.00 dBm	}			Mkr1 2.401 984 -4.220	GH2 dBm
og 10.0					
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		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~
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enter 2.402500 GHz				Span 2.00	
	(	#VBW 100 kHz	FUNCTION WIDTH	Sweep 2.133 ms (100	1 pts
1 N 1 f 2.4	401 984 GHz 402 982 GHz	-4.220 dBm -4.247 dBm		TONOTION VALUE	
3 4					
5					
8					-
0					
G		III	STATUS		F
	CF	S NVNT 3-DH1	2441MHz		_
Agilent Spectrum Analyzer - Swept SA R L RF 50 Ω AC		SENSE:INT	ALIGN AUTO	08:58:58 PM Mai	تم مع
enter Freq 2.44150000	0 GHz PNO: Wi IFGain:L	de 😱 Trig: Free Run	Avg Type: Log-F Avg Hold:>100/1	wr TRACE	2345
Ref Offset 1.86 dE D dB/div Ref 20.00 dBm	3			Mkr1 2.440 982 -5.446	
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enter 2.441500 GHz				Span 2.00	D MH:
Res BW 30 kHz		#VBW 100 kHz		Sweep 2.133 ms (100	
KR MODE TRC SCL >	440 982 GHz	Y FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	= i
	441 982 GHz	-5.479 dBm			
3					
3 4 5 6					
3 4 5					



	CFS NVNT 3-DH1 24	480MHz	
Agilent Spectrum Analyzer - Swept SA     RL RF 50 Ω AC     Center Freq 2.479500000 GHz	PNO: Wide IFGain:Low #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	09:01:14 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NN NN
Ref Offset 1.9 dB 10 dB/div Ref 20.00 dBm		Mkr	1 2.478 984 GHz -6.434 dBm
Log 10.0 0.00 -10.0			
-20.0			
-50.0			
-70.0 Center 2.479500 GHz #Res BW 30 kHz	#VBW 100 kHz	Sweep	Span 2.000 MH: 2.133 ms (1001 pts
MKR         MODE         TRC         SCI         X           1         N         1         f         2.478         984         GH           2         N         1         f         2.479         984         GH           3         4         4         4         4         4         4	z -6.434 dBm	FUNCTION WIDTH FUN	CTION VALUE
6         9			
10 11 	III.	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 Spectrum Analyzer - Swept SA	oing No. NVN	Graphs IT 1-DH1	2441MHz		
RL RF 50 Ω AC enter Freq 2.441750000 GHz	SENSE:INT		ALIGN AUTO Avg Type: Log Avg Hold:>100	-Pwr	08:47:11 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW
		ree Run : 30 dB	Avginoid:>100		DET PNNNN
Ref Offset 1.86 dB dB/div Ref 20.00 dBm				WIKT 1 2.4	401 837 0 GHz -2.091 dBm
D.0					<u>^2</u>
	19109999999999999999999999999999999999		IARAA JARAAAA	ANAANAAN	INNANAAAAA
	• • • • • • • • • • • • • • • • • • • •	<u> </u>	<u> </u>	U A N X U A B U A	
					how
art 2.40000 GHz					Stop 2.48350 GHz
Res BW 100 kHz	#VBW 300 k			Sweep 8.	000 ms (1001 pts
R         MODE         TRC         SCL         X           N         1         f         2.401         837         0         GHz           2         N         1         f         2.480         160         0         GHz	Y -2.091 dBm -4.578 dBm	FUNCTION FUN	ICTION WIDTH	FUNCTIO	N VALUE
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8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					
	III		071710		•
Hopa	oing No. NVN	IT 2-DH1	2441MHz		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	<u> </u>				
	SENSE:INT		ALIGN AUTO		08:52:19 PM Mar 02, 202
enter Freq 2.441750000 GHz	IO: Fast 🖵 Trig: F	ree Run : 30 dB	ALIGN AUTO Avg Type: Log Avg Hold:>100		08:52:19 PM Mar 02, 202 TRACE 1 2 3 4 5
enter Freq 2.441750000 GHz PN IFG Ref Offset 1.86 dB	IO: Fast 🕠 Trig: F	ree Run	Avg Type: Log	/100	08:52:19 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
enter Freq 2.441750000 GHz IFG	IO: Fast 🖵 Trig: F	ree Run	Avg Type: Log	/100	08:52:19 PM Mar 02, 202 TRACE 12 34 5 TYPE M DET PNNNN 401 670 0 GHz -6.404 dBm
enter Freq 2.441750000 GHz PN IFG Ref Offset 1.96 dB Ref 20.00 dBm P P P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P IFG P I I I I I I I I I I I I I	IO: Fast 😱 Trig: F ain:Low #Atten	iree Run : 30 dB	Avg Type: Log Avg Hold:>100	/100 Mkr1 2.4	08:52:19 PM Mar 02, 202 TRACE 12 3 4 5 TYPE MUSEUM DET P NNNN 401 670 0 GH2 -6.404 dBm
Ref 20.00 dBm	IO: Fast 😱 Trig: F ain:Low #Atten	iree Run : 30 dB	Avg Type: Log Avg Hold:>100	/100 Mkr1 2.4	08:52:19 PM Mar 02, 202 TRACE 12 3 4 5 TYPE MUSEUM DET P NNNN 401 670 0 GH2 -6.404 dBm
Ref Offset 1.86 dB Ref 20.00 dBm	IO: Fast 😱 Trig: F ain:Low #Atten	iree Run : 30 dB	Avg Type: Log Avg Hold:>100	/100 Mkr1 2.4	08:52:19 PM Mar 02, 202 TRACE 12 3 4 5 TYPE MUSEUM DET P NNNN 401 670 0 GH2 -6.404 dBm
Ref Offset 1.86 dB Ref 20.00 dBm	IO: Fast 😱 Trig: F ain:Low #Atten	iree Run : 30 dB	Avg Type: Log Avg Hold:>100	/100 Mkr1 2.4	08:52:19 PM Mar 02, 202 TRACE 12 3 4 5 TYPE MUSEUM DET P NNNN 401 670 0 GH2 -6.404 dBm
Ref Offset 1.86 dB           Ref 20.00 dBm           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1	IO: Fast 😱 Trig: F ain:Low #Atten	iree Run : 30 dB	Avg Type: Log Avg Hold:>100	/100 Mkr1 2.4	08:52:19 PM Mar 02, 202 TRACE 12 3 4 5 TYPE MUSEUM DET P NNNN 401 670 0 GH2 -6.404 dBm
Ref Offset 1.86 dB           Ref Offset 1.86 dB           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1 <th1< th="">           1     <td>IO: Fast Trig: F Jain:Low #Atten</td><td>ree Run : 30 dB</td><td>Avg Type: Log Avg Hold:&gt;100</td><td>/100 Mkr1 2./ ΛΑΓΜΑΝΑΛΑΛ</td><td>08:52:19 PM Mar 02, 202 TRACE 12 3 4 5 TYPE MUMUU 401 670 0 GH2 -6.404 dBm 200 0 GH2 -6.404 dBm 200 0 GH2 -6.404 dBm 200 0 GH2 -6.404 dBm</td></th1<>	IO: Fast Trig: F Jain:Low #Atten	ree Run : 30 dB	Avg Type: Log Avg Hold:>100	/100 Mkr1 2./ ΛΑΓΜΑΝΑΛΑΛ	08:52:19 PM Mar 02, 202 TRACE 12 3 4 5 TYPE MUMUU 401 670 0 GH2 -6.404 dBm 200 0 GH2 -6.404 dBm 200 0 GH2 -6.404 dBm 200 0 GH2 -6.404 dBm
Ref Offset 1.86 dB Ref Offset 1.86 dB Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	IO: Fast Trig: F HAtten	ree Run : 30 dB	Avg Type: Log Avg Hold:>100	/100 Mkr1 2./ ΛΑΓΜΑΝΑΛΑΛ	08:52:19 PM Mar 02, 202 TRACE    2 3 4 5 TYPE    2 3 4 5 OET  P NNNN 401 670 0 GH2 -6.404 dBm -6.404 dBm -6.40
Ref Offset 1.86 dB         PN           dB/div         Ref Offset 1.86 dB           dB/div         Ref 20.00 dBm           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           2         1           1         1           2         1	IO: Fast Trig: F #Atten	ree Run : 30 dB 	Avg Type: Log Avg Hold:>100	/100 Mkr1 2./ ДАЛАДИЦАЛ С Амаладица Sweep 8.	08:52:19 PM Mar 02, 202 TRACE    2 3 4 5 TYPE    2 3 4 5 OET  P NNNN 401 670 0 GH2 -6.404 dBm -6.404 dBm -6.40
Ref Offset 1.36 dB         PN           dB/div         Ref Offset 1.36 dB           dB/div         Ref 20.00 dBm           dB/div	IO: Fast Trig: F #Atten	ree Run : 30 dB 	Avg Type: Log Avg Hold:>100	/100 Mkr1 2./ ДАЛАДИЦАЛ С Амаладица Sweep 8.	08:52:19 PM Mar 02, 202 TRACE    2 3 4 5 TYPE    2 3 4 5 OET  P NNNN 401 670 0 GH2 -6.404 dBm -6.404 dBm -6.40
Ref Offset 1.86 dB           Ref 20.00 dBm           Image: Constraint of the set of the s	IO: Fast Trig: F #Atten	ree Run : 30 dB 	Avg Type: Log Avg Hold:>100	/100 Mkr1 2./ ДАЛАДИЦАЛ С Амаладица Sweep 8.	08:52:19 PM Mar 02, 202 TRACE    2 3 4 5 TYPE    2 3 4 5 OET  P NNNN 401 670 0 GH2 -6.404 dBm -6.404 dBm -6.40

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Agilent Spec	trum Analyzer - S		pping No						
RL		0Ω AC		SENSE:INT	A	IGN AUTO			1 PM Mar 02, 20
enter Fi	req 2.441	750000 GHz	PNO: Fast	Trig: Free #Atten: 30		Avg Type: Avg Hold:>			TYPE MWWW DET PNNN
) dB/div	Ref Offset Ref 20.0						Mkr	1 2.401 5 -6.	03 0 GH 755 dB
.00 1									<u>^2</u>
	<u>AAAAAA</u>	ՙՆաՆՆ՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝	$\mathcal{M} \to \mathcal{M} \to \mathcal{M}$	ላቢኲላላላህሊ	nnnymnn	<b>L</b> ANGAAA	$\gamma_{\mu}\gamma_{\mu}\gamma_{\mu}\gamma_{\mu}\gamma_{\mu}\gamma_{\mu}\gamma_{\mu}\gamma_{\mu}$	<b>ԱՆՆՎԱ</b> ՆՆԱ	WINY
0.0									
0.0									
0.0									
	000 GHz 100 kHz		#VB	W 300 kHz			Swee	Stop 2. p 8.000 ms	48350 GH s (1001 pt
KR MODE TF	C SCL	х	Y	FUN	CTION FUNC	TION WIDTH	F	UNCTION VALUE	
1 N 1 2 N 1		2.401 503 0 GH 2.480 410 5 GH		dBm dBm					
3									
5									
7									
8									
0									

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### 14. Dwell Time

### 14.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

### 14.2 Limit

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

#### 14.3 Test procedure

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

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

#### 14.4 Test Result

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

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

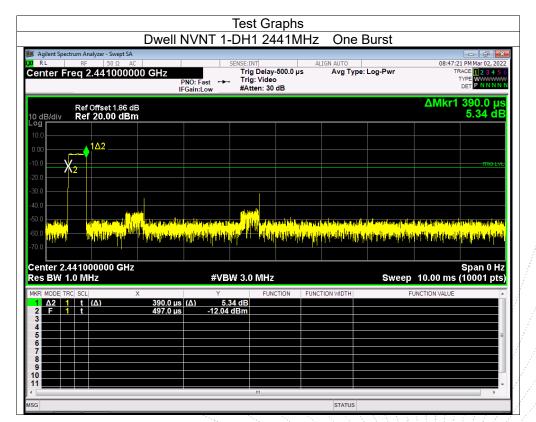
DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

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

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Modulation	Channel Data	Packet	pulse time(ms)	Dwell Time(ms)	Limits(ms)
		DH1	0.39	124.8	400
GFSK	Middle	DH3	1.643	262.88	400
		DH5	2.894	308.69	400
		2DH1	0.395	126.4	400
π/ 4 DQPSK	Middle	2DH3	1.647	263.52	400
		2DH5	2.895	308.8	400
		3DH1	0.396	126.72	400
8DPSK	Middle	3DH3	1.646	263.36	400
		3DH5	2.898	309.12	400



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	Dwell I	NVNT 1-DH	I3 2441N	1Hz One	Burst	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000	F	PNO East +++ Tri	INT ig Delay-500.0 μ ig: Video tten: 30 dB	ALIGN AUTO Is Avg Typ	e: Log-Pwr	09:03:28 PM Mar 02, 20 TRACE 234 S TYPE WWWWW DET P N N N
Ref Offset 1.86 dB 10 dB/div Ref 20.00 dBm						ΔMkr1 1.643 m 3.54 d
10.0						
0.00 10.0 20.0 X22	1Δ2					TRIG LA
40.0						
	artan Uyuu uu 1 <mark>110 ji ji ji ji ji ji ji</mark> ji ji ji ji		n tra jhir pi pi nija dripa Na ini ni si pi pi nija			nder om en der sol for der verste sol en sol en Der sol en sol
50.0 <mark>112/012</mark> 60.0 <mark>111 Juni</mark>						and the second
50 0         Π/1/19           50 0         Π/1           50 0	1.643 ms	#VBW 3.	0 MHz		Sweep	Span 0 H
60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in the second	#VBW 3.	0 MHz	indiana (1997) por porta da a	Sweep	Span 0 H 10.00 ms (10001 pt

	Dwell N	/NT 1-D	H5 24	41MHz	One B	urst		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000	PNO	) East +++ 1	E:INT Frig Delay- Frig: Video Atten: 30 (	500.0 µs	IGN AUTO Avg Type: Lo	og-Pwr	TF	8 PM Mar 02, 20 ACE 1 2 3 4 TYPE WWWW DET P N N N
Ref Offset 1.86 dE 0 dB/div Ref 20.00 dBm	8						∆Mkr1∶	2.894 m 2.98 d
og 10.0								
0.00 X2		- <b>∮</b> ^{1∆2}						TRIG L
0.0								
0.0								
					n han an traiteach a Tha an traiteach an t			
enter 2.441000000 GHz								Span 0 H
es BW 1.0 MHz		#VBW 3	B.U IVIHZ					
		×	L FUNC	TION	FION LAIDTH			(10001 pt
<pre>kR MODE TRC SCL &gt; 1 Δ2 1 t (Δ) 2 F 1 t</pre>	< 2.894 ms (Δ 497.0 μs	Y ) 2.98 d -11.92 dBr	FUNC B	TION FUNC	FION WIDTH		INCTION VALUE	(10001 pt
KR         MODE         TRC         SCL         >>           1         Δ2         1         t         (Δ)           2         F         1         t         3           3         -         -         -         -           4         -         -         -         -           5         -         -         -         -           6         -         -         -         -	2.894 ms (Δ	) 2.98 d	В	TION FUNC	FION WIDTH			(10001 pt
KR         MODE         TRC         SCL         >>           1         Δ2         1         t         (Δ)           2         F         1         t         -           4         -         -         -         -           5         -         -         -         -           6         -         -         -         -           7         -         -         -         -           8         -         -         -         -	2.894 ms (Δ	) 2.98 d	В	CTION FUNC	rion width			(10001 pt
KR MODE TRC SCL         >           1 Δ2 1 t         Δ           2 F 1 t         Δ           4 5         6	2.894 ms (Δ	) 2.98 d	В	CTION FUNCT	rion width			(10001 pt

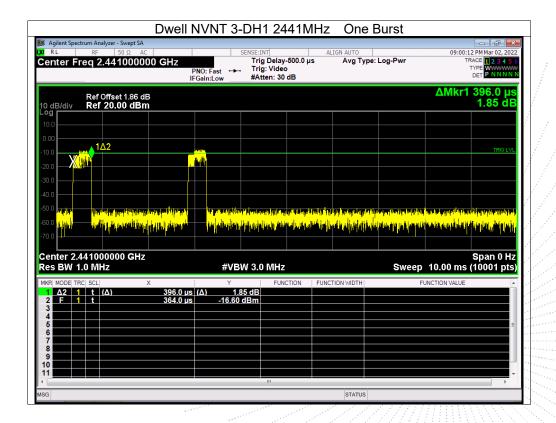


	Dwell N	VNT 2-DH	1 2441M	lHz One	Burst	
Agilent Spectrum Analyzer - Swept SA					1	- 7
RL RF 50 Ω A	PNO	East 🛶 Trig	g Delay-500.0 µs g: Video tten: 30 dB	ALIGN AUTO s Avg Typ	be: Log-Pwr	08:52:30 PM Mar 02, TRACE 1 2 3 TYPE WWW DET P N N
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0.0         n=0         sr ( ) are been defined defi	z 395.0 μs (Δ	#VBW 3.0	MHz		Sweep	Span 0 10.00 ms (10001 p
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Dw	ell NVNT 2-DH/	l3 2441MHz	One Burst	
M Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.441000000 GH	PNO East ++++ Tri	INT A ig Delay-500.0 μs ig: Video tten: 30 dB	LIGN AUTO Avg Type: Log-Pwr	09:05:33 PM Mar 02, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N
Ref Offset 1.86 dB 10 dB/div Ref 20.00 dBm Log				ΔMkr1 1.647 m 5.22 di
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Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.	0 MHz	Sweep	Span 0 H 10.00 ms (10001 pt
	47 ms (Δ) 5.22 dB 4.0 μs -17.75 dBm		TION WIDTH	UNCTION VALUE
sg		m	STATUS	4



	Dwell I	NVNT 2-D	H5 2441I	MHz One E	Burst	
Agilent Spectrum Analyzer - Swept S RL RF 50 Ω enter Freq 2.441000	ac 000 GHz	PNO East ↔	E:INT Frig Delay-500.0 Frig: Video Atten: 30 dB	ALIGN AUTO	Log-Pwr	09:06:23 PM Mar 02, 20 TRACE 1234 TYPE WWWWM DET PNNN
Ref Offset 1.86 D dB/div Ref 20.00 dB						ΔMkr1 2.895 m -0.52 d
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enter 2.441000000 GH	Z	1 State 1 Stat	n addige fel en til et fi			span 0 H
enter 2.441000000 GH es BW 1.0 MHz	X	#1141014.544 #VBW (	3.0 MHz		Sweep	Span 0 H 10.00 ms (10.001 pt
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000 μμμ 000 μμμ enter 2.441000000 GH es BW 1.0 MHz KR MODE TRC sc. 1 Δ2 1 t (Δ) 2 F 1 t	x 2.895 ms	#VBW 3	B.0 MHz	y <mark>ny kandra dia 1971. Ana kaominina dia kaominina dia Ny fisio dia kaominina dia ka</mark>	Sweep	Span 0 F 10.00 ms (10001 pt
0.0         α         μ           0.0         μ         μ           enter 2.441000000 GH         es BW 1.0 MHz           BW 1.0 MHz         μ           1         Δ2         1         t           1         Δ2         1         t         (Δ)           3         4         4         5         6           6         6         6         6         7           8         9         9         9         9	x 2.895 ms	#VBW 3	B.0 MHz	y <mark>ny kandra dia 1971. Ana kaominina dia kaominina dia Ny fisio dia kaominina dia ka</mark>	Sweep	Span 0 H 10.00 ms (10001 pt
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	Dwell N	NVNT 3-D	DH3 2441	MHz Oi	ne Burst	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Genter Freq 2.44100000	P	PNO: Fast ↔ Gain:Low	NSE:INT Trig Delay-500 Trig: Video #Atten: 30 dB	ALIGN AUTO	Type: Log-Pwr	09:07:21 PM Mar 02, 20 TRACE 1 2 3 4 TYPE WWWW DET P NNN
Ref Offset 1.86 dE 0 dB/div Ref 20.00 dBm						ΔMkr1 1.646 m -1.75 d
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	1Δ2					TRIG L
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enter 2.441000000 GHz	P	na na mana ang kasa na mana na Na mana na mana n	3.0 MHz		for the office of the later of the state of the second second second second second second second second second	
2000 000000000000000000000000000000000	×	#VBW	3.0 MHz	YUdana, oʻr oʻr oʻr oluu	sweep	Span 0 H
80.0         μμη           80.0         μμη           80.0         μμη           90.0         μη           90.0         μη <t< td=""><td></td><td>#VBW</td><td>3.0 MHz</td><td>YUG AND PERMIT</td><td>sweep</td><td>Span 0 F 10.00 ms (10001 pt</td></t<>		#VBW	3.0 MHz	YUG AND PERMIT	sweep	Span 0 F 10.00 ms (10001 pt
0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ر مراجع میں مراجع میں مراجع میں مراجع میں	4000000000000000000000000000000000000	3.0 MHz	YUG AND PERMIT	sweep	Span 0 F 10.00 ms (10001 pt
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ر مراجع میں مراجع میں مراجع میں مراجع میں	4000000000000000000000000000000000000	3.0 MHz	YUG AND PERMIT	sweep	Span 0 F 10.00 ms (10001 pt
40.0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>ر مراجع میں مراجع میں مراجع میں مراجع میں میں میں میں میں میں میں میں میں میں</td> <td>4000000000000000000000000000000000000</td> <td>3.0 MHz</td> <td>YUG AND PERMIT</td> <td>sweep</td> <td>Span 0 F 10.00 ms (10001 pt</td>	ر مراجع میں مراجع میں مراجع میں مراجع میں	4000000000000000000000000000000000000	3.0 MHz	YUG AND PERMIT	sweep	Span 0 F 10.00 ms (10001 pt

	Dwell NV	'NT 3-DH	I5 2441N	1Hz One	Burst	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A Center Freq 2.4410000	00 GHz		INT ig Delay-500.0 µ: ig: Video	ALIGN AUTO s Avg Type	: Log-Pwr	09:08:14 PM Mar 02, 2 TRACE 1 2 3 4 TYPE WWW
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	<mark>n katapan kata an kata</mark>	1Δ2				TRIG
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0.0						
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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 3 4 5 6 6	2.898 ms (Δ)	۲ 0.52 dB	0 MHz	<mark>ili ta man di shaka ka ku ku ku k Ku ku ku</mark>	Sweep	Span 0   10.00 ms (10001 p
0.0     max       0.0     max       piin     max       enter 2.441000000 GHz       es BW 1.0 MHz       RR MODE TRC SCI       1     Δ2       1     Δ2       2     F       1     Δ2       2     F       1     Δ2       2     F       1     Δ2       3     4       5     6       6     7       8     9	2.898 ms (Δ)	۲ 0.52 dB	0 MHz	<mark>ili ta man di shaka ka ku ku ku k Ku ku ku</mark>	Sweep	Span 0   10.00 ms (10001 p
30.0         π ¹ /2           30.0         π ¹ /2           center 2.441000000 GHz           ces BW 1.0 MHz           KR MODE TRC SCL           1         Δ2           1         t           2         F           1         t           3         -           4         -           5         -           6         -           7         -           8         -	2.898 ms (Δ)	۲ 0.52 dB	0 MHz	<mark>ili ta man di shaka ka ku ku ku k Ku ku ku</mark>	Sweep	Span 0   10.00 ms (10001 p



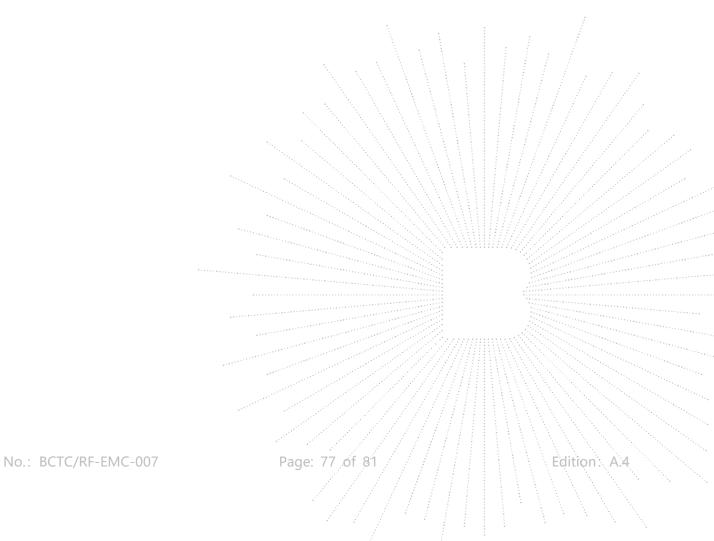
### 15. Antenna Requirement

### 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 PCB antenna, fulfill the requirement of this section.





### 16. EUT Photographs

#### EUT Photo 1



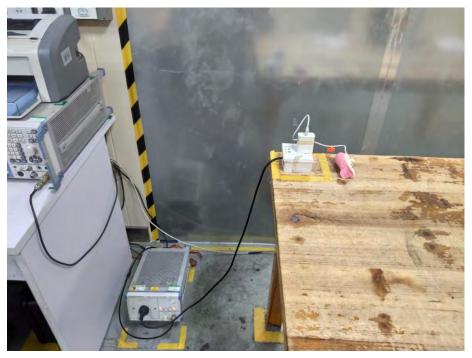
#### EUT Photo 2





# 17. EUT Test Setup Photographs

#### Conducted emissions



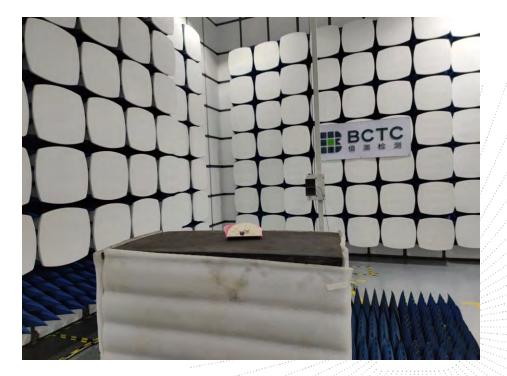
No.: BCTC/RF-EMC-007

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### Radiated Measurement Photos







# **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 stamp of laboratory.

4. The test report is invalid without signature of person(s) testing and authorizing.

5. The test process and test result is only related to the Unit Under Test.

6. The quality system of our laboratory is in accordance with ISO/IEC17025.

7.If there is any objection to 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, Tangwei, 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-007

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