

TEST REPORT

Report No.:	BCTC2307736043E					
Applicant:	SHENZHEN JUNYE ELECTRONICS CO LTD					
Product Name:	TWS EARBUDS WITH CHARGING BOX					
Model/Type Reference:	V40090W	, /				
Tested Date:	2023-07-12 to 2023-07-31					
Issued Date:	2023-08-29					
She	nzhen BCTC Testing Co., Lt	d.				
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No. : BCTC/RF-EMC-005	Page: 1 of ⁄65	Equion, B,O				



FCC ID: 2BB3B-V40090W

Product Name:	TWS EARBUDS WITH CHARGING BOX
Trademark:	N/A
Model/Type Reference:	V40090W
Prepared For:	SHENZHEN JUNYE ELECTRONICS CO LTD
Address:	2/F, Building 7, HYS industrial Park, Phoenix 4TH Community, Fuyong, Baoan, Shenzhen China
Manufacturer:	SHENZHEN JUNYE ELECTRONICS CO LTD
Address:	2/F, Building 7, HYS industrial Park, Phoenix 4TH Community, Fuyong, Baoan, Shenzhen China
Prepared By:	Shenzhen BCTC Testing Co., Ltd .
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Sample Received Date:	2023-07-12
Sample Tested Date:	2023-07-12 to 2023-07-31
Issue Date:	2023-08-29
Report No.:	BCTC2307736043E
Test Standards	FCC Part15.247 ANSI C63.10-2013
Test Results	PASS
Remark:	This is Bluetooth Classic radio test report.

Tested by:

Lei Chen

Lei Chen/Project Handler

Approved by:

Zero Zhou/Reviewer

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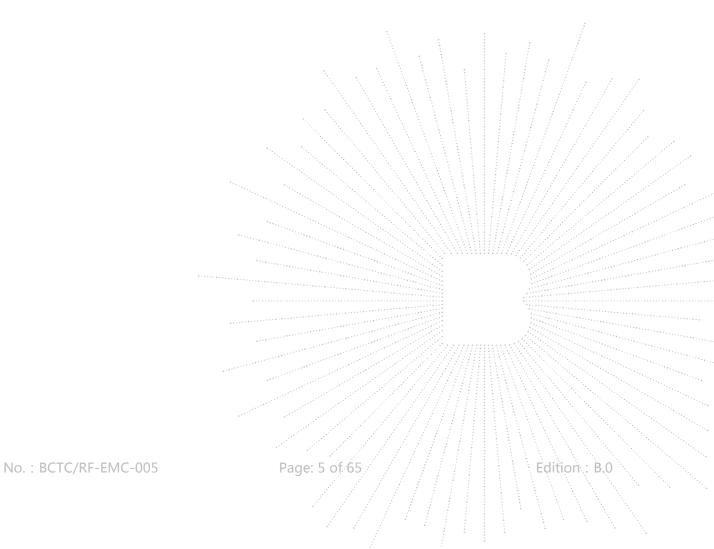
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2307736043E	2023-08-29	Original	Valid





Test Summary 2.

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 hopping frequencies	§15.247(a)(1)(iii)	PASS
5	Dwell Time	§15.247(a)(1)(iii)	PASS
6	Spurious RF conducted emissions	§15.247(d)	PASS
7	Band edge	§15.247(d)	PASS
8	Spurious radiated emissions for transmitter	§15.247(d) & §15.209 & §15.205	PASS
9	Antenna Requirement	15.203	PASS

NOTE1: N/A (Not Applicable) NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

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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

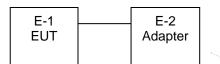
4.1 Product Information

Model/Type reference:	V40090W
Model differences:	N/A
Bluetooth Version:	Bluetooth V5.3
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	Bluetooth: 2402-2480MHz
Type of Modulation:	Bluetooth: GFSK, π / 4 DQPSK
Number Of Channel	79CH
Antenna installation:	Bipolar Antennas
Antenna Gain:	-1.3 dBi
Ratings:	DC 5V From Adapter DC 3.7V From Battery
Battery:	3.7V 30mAh 0.111Wh

4.2 Test Setup Configuration

See test photographs attached in eut test setup photographs for the actual connections between product and support equipment.

Conducted Emission:



Radiated Spurious Emission



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4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-2	TWS EARBUDS WIT H CHARGING BOX	N/A	V40090W	N/A	EUT
E-3	Adapter	HUAWEI	BCTC-1	N/A	N/A

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

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 (Radiated emission)					
4	Charging(Conducted 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		FCC_assist 1.0.1.2	
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters	DEF	DEF	DEF

No.: BCTC/RF-EMC-005



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 C o., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuha i Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in con formance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

		Conducted E	missions Test		
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	/	\
Attenuator	/	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

		RF Cond	ucted Test		
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419		May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A		May 15, 2023	May 14, 2024
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 15, 2023	May 14, 2024

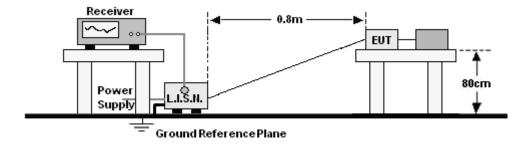


	Rad	liated Emission	s Test (966 Chan	nber)	
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Nov. 02. 2021	Nov. 01.2024
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	Nov. 08. 2022	Nov. 07.2023
Amplifier	SKET	LAPA_01G18 G-45dB	١	Nov. 08. 2022	Nov. 07.2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	Mar. 06, 2022	Mar. 05, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 31, 2023	May 30, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 15, 2023	May 14, 2024
Horn Antenn (18GHz-40GH z)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Amplifier (18GHz-40GH z)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 15, 2023	May 14, 2024
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 15, 2023	May 14, 2024
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 15, 2023	May 14, 2024
Power Metter	Keysight	E4419	I	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A		May 15, 2023	May 14, 2024
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	λ.	\mathbf{V}



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.

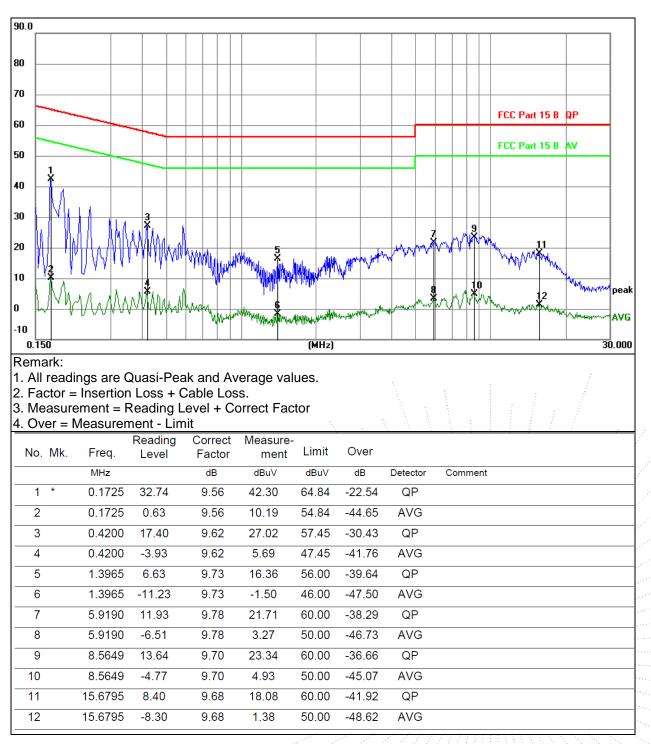
6.4 EUT operating Conditions

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.



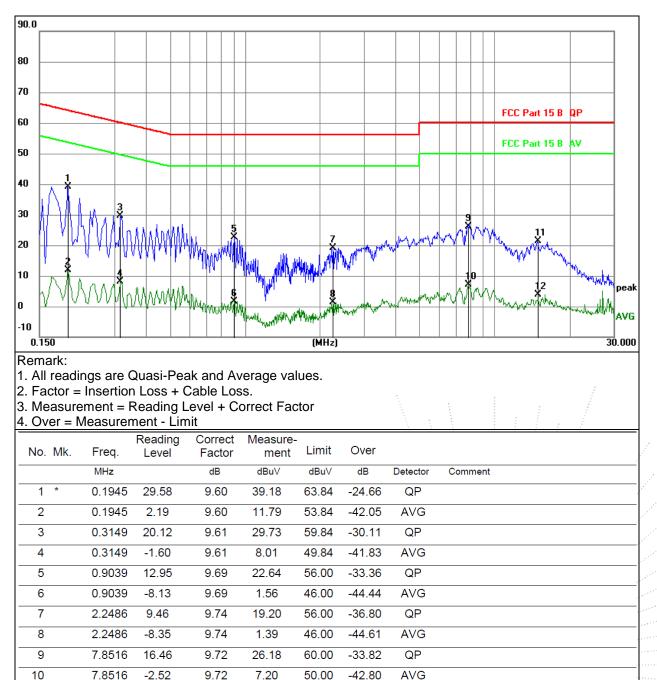
6.5 Test Result

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





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



14.8281

14.8281

11 12 11.76

-5.87

9.66

9.66

21.42

3.79

60.00

50.00

-38.58

-46.21

QP

AVG

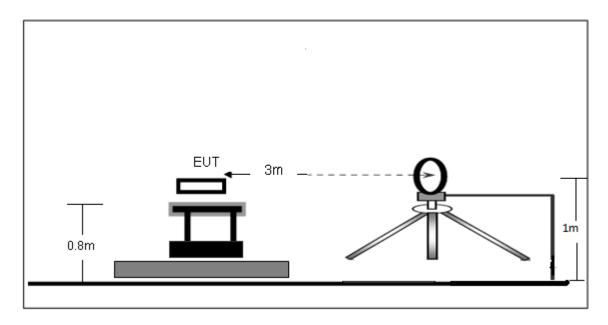
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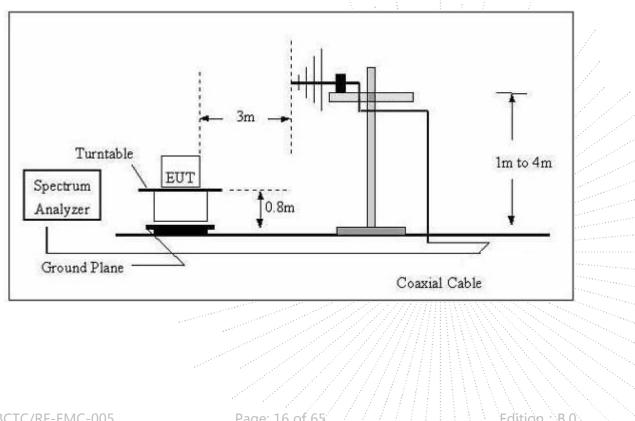
7. **Radiated emissions**

Block Diagram Of Test Setup 7.1

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

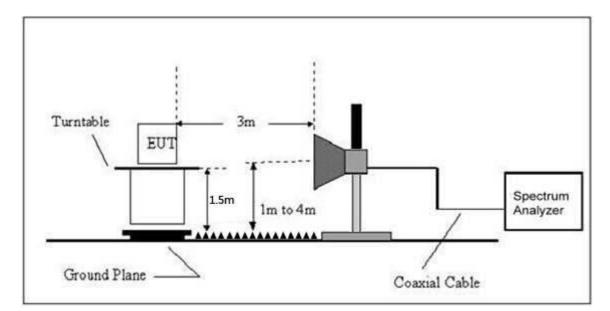


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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 Li	mit 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

Auto
RBW 200Hz for QP
RBW 9kHz for QP
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 :	DC 3.7V
Test Mode:	Mode 3	Test Voltage :	DC 3.7 V

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.

No. : BCTC/RF-EMC-005

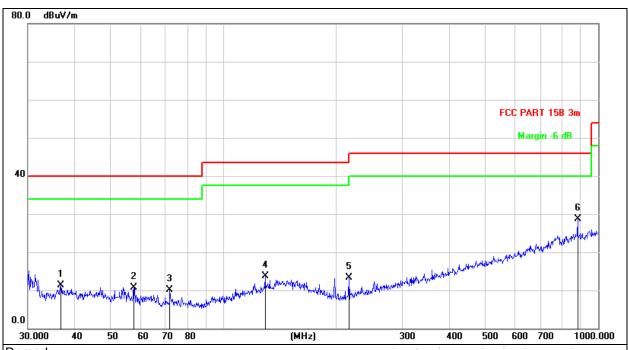
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Between 30MHz – 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 3	Test Voltage:	DC 3.7V



Remark:

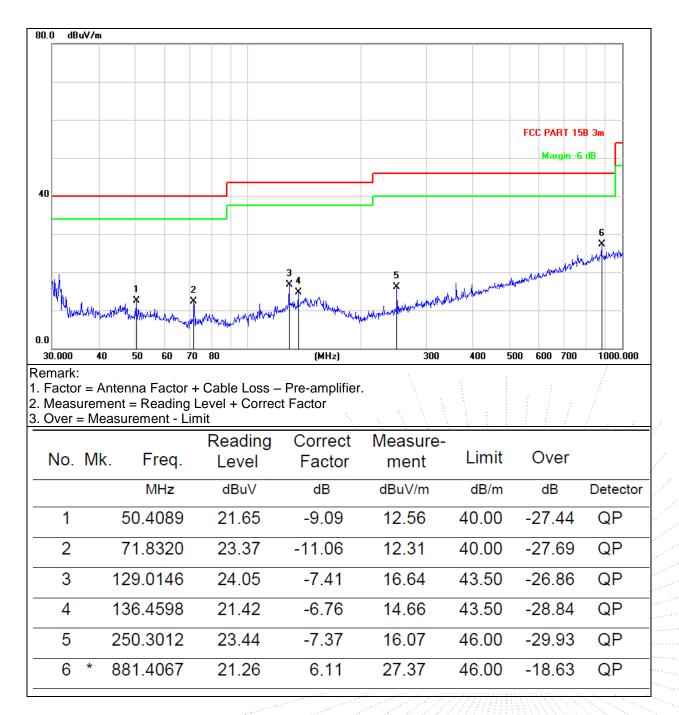
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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

				*				
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		36.7662	19.59	-8.35	11.24	40.00	-28.76	QP
2		57.5939	20.45	-9.72	10.73	40.00	-29.27	QP
3		71.8320	21.20	-11.06	10.14	40.00	-29.86	QP
4		129.0146	21.17	-7.41	13.76	43.50	-29.74	QP
5		216.0240	21.92	-8.71	13.21	46.00	-32.79	QP
6	*	881.4067	22.58	6.11	28.69	46.00	-17.31	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 3	Test Voltage:	DC 3.7V





Between 1GHz - 25GHz

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		(GFSK Low ch	annel			
V	4804.00	60.52	-0.43	60.09	74.00	-13.91	PK
V	4804.00	39.05	-0.43	38.62	54.00	-15.38	AV
V	7206.00	60.63	8.31	68.94	74.00	-5.06	PK
V	7206.00	39.7	8.31	48.01	54.00	-5.99	AV
Н	4804.00	59.04	-0.43	58.61	74.00	-15.39	PK
Н	4804.00	40.04	-0.43	39.61	54.00	-14.39	AV
Н	7206.00	60.62	8.31	68.93	74.00	-5.07	PK
Н	7206.00	38.28	8.31	46.59	54.00	-7.41	AV
		G	FSK Middle c	hannel			
V	4882.00	60.53	-0.38	60.15	74.00	-13.85	PK
V	4882.00	38.09	-0.38	37.71	54.00	-16.29	AV
V	7323.00	61.34	8.83	70.17	74.00	-3.83	PK
V	7323.00	38.83	8.83	47.66	54.00	-6.34	AV
Н	4882.00	61.58	-0.38	61.2	74.00	-12.8	PK
Н	4882.00	38.37	-0.38	37.99	54.00	-16.01	AV
Н	7323.00	61.58	8.83	70.41	74.00	-3.59	PK
Н	7323.00	40.96	8.83	49.79	54.00	-4.21	AV
		(GFSK High ch	annel			
V	4960.00	61.03	-0.32	60.71	74.00	-13.29	PK
V	4960.00	38.33	-0.32	38.01	54.00	-15.99	AV
V	7440.00	61.87	9.35	71,22	74.00	-2.78	/ PK
V	7440.00	40.05	9.35	49.4	54.00	-4.6	AV
Н	4960.00	61.37	-0.32	61.05	74.00	-12.95	/ PK
Н	4960.00	39.75	-0.32	39.43	54.00	-14.57	AV
Н	7440.00	60.53	9.35	69.88	74.00	-4.12	PK
Н	7440.00	38.52	9.35	47.87	54.00	-6.13	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.

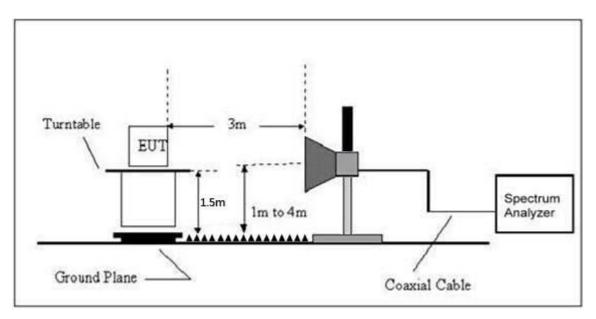
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



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)

Frequency (MHz)	Limit (d	BuV/m) (at 3M)
Frequency (MIRZ)	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
	(14 V)	(1112)	(dBuV/m)	(dB)	РК	РК	AV	
			Low	/ Channel 2	402MHz			
	Н	2390.00	57.94	-6.70	51.24	74.00	54.00	PASS
	Н	2400.00	55.70	-6.71	48.99	74.00	54.00	PASS
	V	2390.00	57.93	-6.70	51.23	74.00	54.00	PASS
GFSK	V	2400.00	59.42	-6.71	52.71	74.00	54.00	PASS
Gran			High	n Channel 2	480MHz			
	Н	2483.50	58.62	-6.79	51.83	74.00	54.00	PASS
	Н	2500.00	54.39	-6.81	47.58	74.00	54.00	PASS
	V	2483.50	55.24	-6.79	48.45	74.00	54.00	PASS
	V	2500.00	54.84	-6.81	48.03	74.00	54.00	PASS
			Low	/ Channel 2 [,]	402MHz			
	Н	2390.00	51.14	-6.70	44.44	74.00	54.00	PASS
	Н	2400.00	58.65	-6.71	51.94	74.00	54.00	PASS
	V	2390.00	53.78	-6.70	47.08	74.00	54.00	PASS
π/4DQPSK	V	2400.00	55.54	-6.71	48.83	74.00	54.00	PASS
II/4DQF3K			High	n Channel 2	480MHz			
	Н	2483.50	56.26	-6.79	49.47	74.00	54.00	PASS
	Н	2500.00	51.37	-6.81	44.56	74.00	54.00	PASS
	V	2483.50	58.62	-6.79	51.83	74.00	54.00	PASS
	V	2500.00	52.71	-6.81	45.90	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





Keysight Spectrum Analyzer R L RF		SENCE	PULSE			02:53:12 PM Jul 31, 202
enter Freq 2.44	1000000 GHz	PNO:Wide ↔	Trig: Free Run #Atten: 20 dB	#Avg Type: Avg Hold: 1	RMS 100/100	TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N
-Def Off-		FGain:Low			Mkr1	2.440 859 0 GH
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enter 2.4410000	GHz		A			Span 1.500 MH
Res BW 100 kHz		#VBW	300 kHz		Sweep	1.000 ms (1001 pt
				STATUS		
	Tx Sourie	ous NV/NT	1-DH5 244	tostatus 11MHz Fr	mission	
Keysight Spectrum Analyzer	r - Swept SA		1-DH5 244		mission	
RL RF	r - Swept SA 50 Ω AC 65000000 GHz	SENSE	:PULSE	41MHz Er #Avg Type:	RMS	02:53:42 PM Jul 31, 202 TRACE 1 2 3 4
RL RF	r - Swept SA 50 Ω AC 65000000 GHz	SENSE		11MHz Er	: RMS 10/10	02:53:42 PM Jul 31, 202 TRACE 1 2 3 4 5 TYPE MWWW DET P NNN
RL RF enter Freq 13.20 Ref Offse	r - Swept SA 50 Ω AC 65000000 GHz	PNO: Fast	:PULSE	41MHz Er #Avg Type:	: RMS 10/10	02:53:42 PM Jul 31, 202 TRACE 1 2 3 4
RL RF enter Freq 13.20 Ref Offse 0 dB/div Ref 12.1 9	r-Swept SA 50 Ω AC 65000000 GHz	PNO: Fast	:PULSE	41MHz Er #Avg Type:	: RMS 10/10	02:53:42 PMJul 31, 202: TRACE 2 3 4 5 TYPE MWWW DET P NNNN Akr1 2.441 4 GH
RL RF enter Freq 13.20 Ref Offse 0 dB/div Ref 12.3 99	r-Swept SA 50 Ω AC 65000000 GHz	PNO: Fast	:PULSE	41MHz Er #Avg Type:	: RMS 10/10	02:53:42 PMJul 31, 202: TRACE 2 3 4 5 TYPE MWWW DET P NNNN Akr1 2.441 4 GH
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RL RF enter Freq 13.20 Ref Offse 0 dB/div Ref 12.3 23 64 7.6 7.6	r-Swept SA 50 Ω AC 65000000 GHz	PNO: Fast	:PULSE	41MHz Er #Avg Type:	: RMS 10/10	02:53:42 PM3II 31, 202 TRACE II 2 3 4 = TYPE II 2 3 4 = DET P NNNI Akr1 2.441 4 GH -4.974 dBr
RL RF enter Freq 13.20 Ref Offse 0 dB/div Ref 12.3 99 94 94 95 95 96 96 97 96 97 97 97 97 97 97 97 97 97 97 97 97 97	r-Swept SA 50 Ω AC 65000000 GHz et 2.36 dB 36 dBm	SENSE PNO: Fast FGain:Low	:PULSE	41MHz Er #Avg Type:	: RMS 10/10	02:53:42 PM3II 31, 202 TRACE II 2 3 4 = TYPE II 2 3 4 = DET P NNNI Akr1 2.441 4 GH -4.974 dBr
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RL RF enter Freq 13.20 Ref Offse 0 dB/div Ref 12.2 9 db 7 db 7 db 7 db 7 db 7 db 7 db 7 db 7	r-Swept SA 50 Ω AC 65000000 GHz et 2.36 dB 36 dBm	SENSE PNO: Fast FGain:Low	:PULSE	41MHz Er #Avg Type:	: RMS 10/10	02:53:42 PMJil 31, 202 TRACE 1 2 3 4 : TYPE M WWW DET P NNNN AKr1 2.441 4 GH -4.974 dBr
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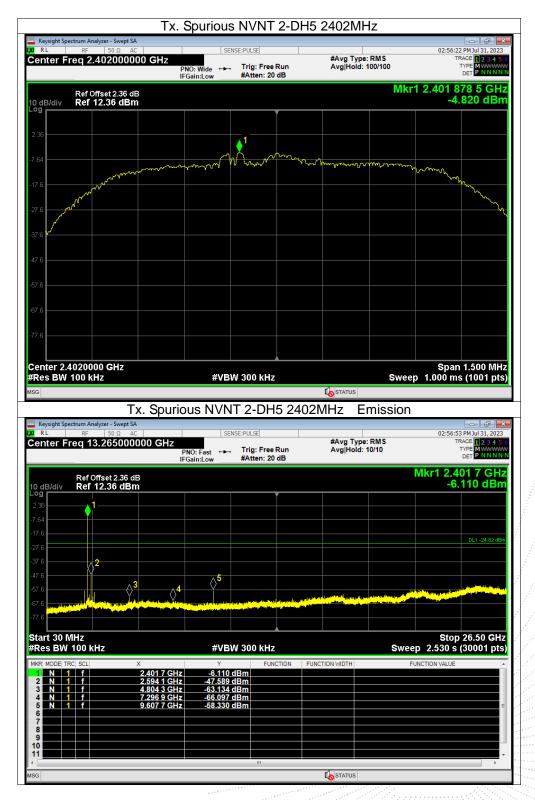
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Keysight Spectrum Analyzer - Sw R L RF 50 Ω		SENSE:	PULSE		0	02:54:47 PM Jul 31, 202
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	AC 000000 GHz	NO East +++ 1	FULSE	#Avg Type: RI Avg Hold: 10/1	MS 10	2:55:18 PM Jul 31, 202 TRACE 1 2 3 4 TYPE M DET P NNN
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Ref Offset 2: Ref Offset 2: 0 dB/div Ref 12.36 of 29 36 64 7.6	AC 000000 GHz P IF 36 dB	NO: Fast +++ 1	rig: Free Run	#Avg Type: RI Avg Hold: 10/1	MS 10	12:55:18 PMJul 31,202 TRACE 12 3 4 3 TYPE MWWW DET PNNN 2.480 2 GH -4.627 dBt
Ref Offset 2: 0 dB/div Ref 12:36 0 0 dB/div 12:36 0 0 dF/div 2 0 dF/di 2 0 dF/di 2 0 dF/di 2 0 dF/div 2 0 dF/div 2 0	AC 000000 GHz P IF 36 dB	NO: Fast +++ 1	rig: Free Run	#Avg Type: Rl Avg Hold: 10/7	MS 10	12:55:18 PMJul 31,202 TRACE 12 3 4 3 TYPE MWWW DET PNNN 2.480 2 GH -4.627 dBt
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Ref Offset 2: 0 dB/div Ref 12:36 0 dB/div Ref 12:36 0 dB/div 2 0 dV 0 dV	AC 000000 GHz P IF 36 dB	NO: Fast →→ 1 Gain:Low #	rig: Free Run Atten: 20 dB	#Avg Type: RI Avg Hold: 10/	MS 10 Mkr1	12:55:18 PMJul 31, 202 TRACE 12 34 TYPE MUMMU PET P NNN 2.480 2 GH -4.627 dB DL1:24:38 df DL1:24:38 df
Ref Offset 2: Ref Offset 2: Ref Offset 2: Ref 12.36 of 9 9 9 9 9 9 9 9 9 9 9 9 9	AC P D00000 GHz P F 36 dB dBm 33 4 34 4 4 4 4 4 4 4 4 4 4 4 4 4 4	NO: Fast 1 Gain:Low + *	rig: Free Run Atten: 20 dB	#Avg Type: RI Avg Hold: 10/1	MS 10 Mkr1	2:55:18 / MU 13, 202 TRACE 1 2 3 4 TYPE M WWW OUT NNNN 2.480 2 GH -4.627 dB DL1 .24 36 df DL1 .24 36 df DL1 .24 36 df Stop 26.50 GH 30 s (30001 pt /ALUE
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Edition : B.0

No.: BCTC/RF-EMC-005



Keysight Spectrum Analyzer - Swep R L RF 50 Ω		SENSE	:PULSE			02:57:53 PM Jul 31, 202
enter Freq 2.44100	P	NO: Wide ↔→ Gain:Low	Trig: Free Run #Atten: 20 dB	#Avg Type Avg Hold:	e: RMS 100/100	TRACE 1234 TYPE MWWW DET PNNN
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Res BW 100 kHz		#VBW	300 kHz	_	Sweep	1.000 ms (1001 pt
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Keysight Spectrum Analyzer - Swe	pt SA		2-DH5 24		mission	- ¢
RL RF 50 Ω	AC 00000 GHz	SENSE	:PULSE	41MHz E #Avg Type	e: RMS	02:58:23 PM Jul 31, 202
RL RF 50 Ω	Pt SA AC 00000 GHz	SENSE		41MHz E	e: RMS 10/10	02:58:23 PM Jul 31, 202 TRACE 1 2 3 4 TYPE MWWW DET P N N N
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RL RF 50 Q enter Freq 13.2650 Ref Offset 2.3 Ref 12.36 d 0 dB/div Ref 12.36 d Ref 12.36 d 236 1 1 7.6 2 1 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 2 2 7.6 3 4 8 100 kHz 8 1 1 1 1 1 3 1 1	AC 00000 GHz P IF 6 dB Bm 44	SENSE Gain:Low 5 5 4 4 7 - 8.442 dE - 4.7.164 dE - 4.42 dE - 4.7.164 dE - 5.000 dE	PULSE	41MHz E	e: RMS 10/10 M	02:58:23 PM3Ji 31, 202 TRACE 1 2 3 4 TYPE M WWW DET P NNN Ikr1 2.441 4 GH -8.442 dB DL1-24:28 dB DL1-24:28 dB DL1-24:28 dB Stop 26.50 GH 2.530 s (30001 pt
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Edition: B.0



Keysight Spectrum Analyzer - Swep R L RF 50 Ω		Lenker of	Leci J			02:50:24 PM Jul 21, 20	
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Keysight Spectrum Analyzer - Swe	ept SA	NVNT 1-E			riopping	
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Banc Keysight Spectrum Analyzer - Swe RL RF 50 Ω nter Freq 2.35600	ept SA AC 00000 GHz IF	SENSE:PU	2402MHz	No-Hop	ping Emis e: RMS : 100/100	Sion 02:51:22 PMJul 31, 20: TRACE TYPE DET NNN
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Banc Keysight Spectrum Analyzer - Swe RL RE SO Q nter Freq 2.35600 Ref Offset 2.3 dB/div Ref 20.00 d	ept SA AC 100000 GHz P IF 36 dB	SENSE:PU	2402MHz	No-Hop	ping Emis e: RMS : 100/100	Sion 02:51:21 PMJul 31, 202 TRACE 12:34 TYPE WWW DET PNNN 1kr1 2:401 9 GH -4.494 dB1
Banc Keysight Spectrum Analyzer - Swe RL RE 50 Q nter Freq 2.356000 Ref Offset 2.3 dB/div Ref 20.00 d	AC OCTOR	SENSE:PU	2402MHz	No-Hop	ping Emis e: RMS : 100/100	Sion 02:51:21 PMJul 31, 202 TRACE 12:34 TYPE WWW DET PNNN 1kr1 2:401 9 GH -4.494 dB1
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Banc	AC OCON GHZ	SENSE:PU	2402MHz	No-Hop	e: RMS : 100/100	Sion 02:51:21 PMJul 31, 202 TRACE 12:34 TYPE WWW 1kr1 2:401 9 GH -4.494 dB1
Banc Keysight Spectrum Analyzer - Swe RL RF 1502 anter Freq 2.35600 Banc Banc Ref 0ffset 2.3 Banc Banc Banc Banc Banc Banc Banc Banc	AC 00000 GHz P	SENSE:PL PNO: Fast → Tr Gain:Low / Tr #A	2402MHz	No-Hop	ping Emis e. RMS : 100/100	Sion 02:51:21 PMJul 31, 202 TRACE 12 3 4 TYPE WWW Ikr1 2:401 9 GF -4.494 dB1 0c1 22 7 d 0c1 22 7 d Stop 2:40600 GF 9.600 ms (1001 pt
Ref Offset 2.3 Content Freq 2.35600 Ref Offset 2.3 Ref Offset 2.3 Ref 20.00 G R	× 2.401 9 GHz	SENSE:PL NO: Fast →→ Tr Gain:Low → #A	2402MHz	No-Hop	ping Emis e. RMS : 100/100	Sion 02:51:21 PMJul 31, 202 TRACE 12:34 TYPE WWW 1kr1 2:401 9 GH -4.494 dB1
Banc Keysight Spectrum Analyzer - Swe RL RE S0.0 Inter Freq 2.356000 Ref 0000 Ref 0000 Bance Ref 0000 Ref 0000 Ref 0000 Bance Ref 0000 Ref 0000<	Ept SA AC 00000 GHz P IF 36 dB JBm 36 dB JBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PL PNO: Fast → Tr Gain:Low #A #VBW 3(#VBW 3(2402MHz	No-Hop	ping Emis e. RMS : 100/100	Sion 02:51:21 PMJul 31, 202 TRACE 12 3 4 TYPE WWW Ikr1 2:401 9 GF -4.494 dB1 0c1 22 7 d 0c1 22 7 d Stop 2:40600 GF 9.600 ms (1001 pt
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Respectrum Analyzer - Swe RL RF Is 0 Ω nter Freq 2.35600 Ref Offset 2.3 Global 2.3 GB/div Ref 20.00 clobal 2.3 Ref 20.00 clobal 2.3 Global 2.3 GB/div Ref 20.00 clobal 2.3 Ref 20.00 clobal 2.3 Global 2.3 Global 2.3 GB/div Ref 20.00 clobal 2.3 Ref 20.00 clobal 2.3 Global 2.3 Global 2.3 GB/div Ref 20.00 clobal 2.3 Ref 20.00 clobal 2.3 Global 2.3 Global 2.3 GB/div Ref 20.00 clobal 2.3 Ref 20.00 clobal 2.3 Global 2.3 Global 2.3 GB/div Ref 20.00 clobal 2.3 Ref 20.00 clobal 2.3 Global 2.3 Global 2.3 GB/div Ref 20.00 clobal 2.3 Ref 2.3 Global 2.3 Global 2.3 GB/div Ref 2.3 Ref 2.3 Global 2.3 Global 2.3 Global 2.3 GB/div Ref 2.3 Ref 2.3 Global 2.3 Global 2.3 Global 2.3 GB/div Ref 2.3 Ref 2.3 Global 2.3 Global 2.3 Global 2.3 Ref 2.3 Ref 2.3 <td< td=""><td>Ept SA AC 00000 GHz P IF 36 dB JBm 36 dB JBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td><td>SENSE:PL PNO: Fast → Tr Gain:Low #A #VBW 3(#VBW 3(</td><td>2402MHz</td><td>No-Hop</td><td>ping Emis e. RMS : 100/100</td><td>Sion 02:51:21 PMJul 31, 202 TRACE 12 3 4 TYPE WWW Ikr1 2:401 9 GF -4.494 dB1 0c1 22 7 d 0c1 22 7 d Stop 2:40600 GF 9.600 ms (1001 pt</td></td<>	Ept SA AC 00000 GHz P IF 36 dB JBm 36 dB JBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PL PNO: Fast → Tr Gain:Low #A #VBW 3(#VBW 3(2402MHz	No-Hop	ping Emis e. RMS : 100/100	Sion 02:51:21 PMJul 31, 202 TRACE 12 3 4 TYPE WWW Ikr1 2:401 9 GF -4.494 dB1 0c1 22 7 d 0c1 22 7 d Stop 2:40600 GF 9.600 ms (1001 pt
Respectrum Analyzer - Swe RL RF 50 Ω Inter Freq 2.35600 Ref Offset 2.3 B/div Ref 20.00 c B/div	Ept SA AC 00000 GHz P IF 36 dB JBm 36 dB JBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PL PNO: Fast → Tr Gain:Low #A #VBW 3(#VBW 3(2402MHz	No-Hop	ping Emis e. RMS : 100/100	Sion 02:51:21 PMJul 31, 20 TRACE 12 3 4 TYPE WWW Ikr1 2:401 9 GH -4.494 dB 001 2:27 df 001 2:27 df 001 2:27 df 001 2:27 df 001 2:27 df 001 2:27 df 001 2:27 df

Edition : B.0

No. : BCTC/RF-EMC-005



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	AC	SENS	E:PULSE		#Ave Ture	DMS		34 PM Jul 31, 2023
Center Freq 2.480000	P	PNO: Wide ↔ FGain:Low	Trig: Free R #Atten: 30 d		#Avg Type: Avg Hold: 1	RMS 100/100		TYPE MWWW DET P NNNN
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RL RF 50 Ω	AC 000 GHz			un	IO-HOPP #Avg Type: Avg Hold: 1	RMS	02:54:	37 PM Jul 31, 2023
RL RF 50 Ω center Freq 2.526000 Ref Offset 2.36 Ref Offset 2.36 Ref 20.00 dE	AC 000 GHz	SENS	E:PULSE	un	#Avg Type:	RMS	02:54: Mkr1 2.4	37 PMJul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN 80 0 GH
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RL ρF 50 Ω enter Freq 2.526000 Ref Offset 2.36 0 dB/div Ref 20.00 dE 0 dB/div 2 0 dB/div 2 0 dB/div 2 0 dD 2	AC 000 GHz	SENS	E:PULSE	un	#Avg Type:	RMS	02:54: Mkr1 2.4	37 PMJul 31, 2023 12 3 4 5 12 4 5 12
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RL RF 50 Ω center Freq 2.526000 Ref Offset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div Ref 0 ffset 2.36 Ref 0 ffset 2.36 0 dB/div </td <td>AC INTERPORTED INT</td> <td>SENS PNO: Fast -Gain:Low</td> <td>E:PULSE Trig: Free R #Atten: 30 d</td> <td>un B</td> <td>#Avg Type:</td> <td>RMS 100/100</td> <td>02:54: Mkr1 2.4 -4 -4 -5 -5 -5 -5 -6 -5 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6</td> <td>37 PNJU 31, 2023 FRACE 1, 2, 3, 4, 5 TYPE MUMM DET PNNNN 480 0 GH: 574 dBn 0</td>	AC INTERPORTED INT	SENS PNO: Fast -Gain:Low	E:PULSE Trig: Free R #Atten: 30 d	un B	#Avg Type:	RMS 100/100	02:54: Mkr1 2.4 -4 -4 -5 -5 -5 -5 -6 -5 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6	37 PNJU 31, 2023 FRACE 1, 2, 3, 4, 5 TYPE MUMM DET PNNNN 480 0 GH: 574 dBn 0
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RL PF 50 Q enter Freq 2.526000 Ref Offset 2.36 0 0 dB/div Ref 20.00 dE 0 0 dD 1 0 0 0 dD 2 0 0 0 0 dD 2 0 0 0 0 0 dD 2 0 2 0 0 0 0 dD 2 0 2 0	AC 000 GHz 11 dB 33m 44 3 44 3 44 3 45 2480 0 GHz 12 48 3 6 Hz 12 2 48 3 6 Hz 12 2 48 0 0 GHz 12 10 0 GHz 12 10 0 GHz 12 10 0 0 0 0 GHZ 12 10 0 0 0 0 GHZ 12 10 0 0 0 0 0 GHZ	SENS PNO: Fast Gain:Low #VBW ¥VBW ¥VBW	E:PULSE Trig: Free R #Atten: 30 d #Atten: 40 d #Atten:	un B	#Avg Type: Avg Hold: 1	RMS 100/100	02:54: Mkr1 2.4 -4 -4 -4 -4 -4 -5 -4 -5 -6 -7 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	37 PM Jul 31, 2023 FRACE 1, 2, 3, 4, 5 TYPE MWWW DET P N N N N 180 0 GH .574 dBn CL1 -24 52 (8) 1001 pts .57600 GH s (1001 pts
RL PF 50 2 enter Freq 2.526000 Ref Offset 2.36 0 dB/div Ref 20.00 dE 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 2 100 1 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100 2 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100	AC 000 GHz 11 dB 33m 44 3 44 3 44 3 45 2480 0 GHz 12 48 3 6 Hz 12 2 48 3 6 Hz 12 2 48 0 0 GHz 12 10 0 GHz 12 10 0 GHz 12 10 0 0 0 0 GHZ 12 10 0 0 0 0 GHZ 12 10 0 0 0 0 0 GHZ	SENS PNO: Fast Gain:Low #VBW ¥VBW ¥VBW	E:PULSE Trig: Free R #Atten: 30 d #Atten: 40 d #Atten:	un B	#Avg Type: Avg Hold: 1	RMS 100/100	02:54: Mkr1 2.4 -4 -4 -4 -4 -4 -5 -4 -5 -6 -7 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	37 PM Jul 31, 2023 FMCCE 11 2 3 4 5 TYPE MWWW DET P N N N N 480 0 GH: .574 dBn DL1 -24 52 dBn DL1 -24 52 dBn 2.57600 GH: s (1001 pts

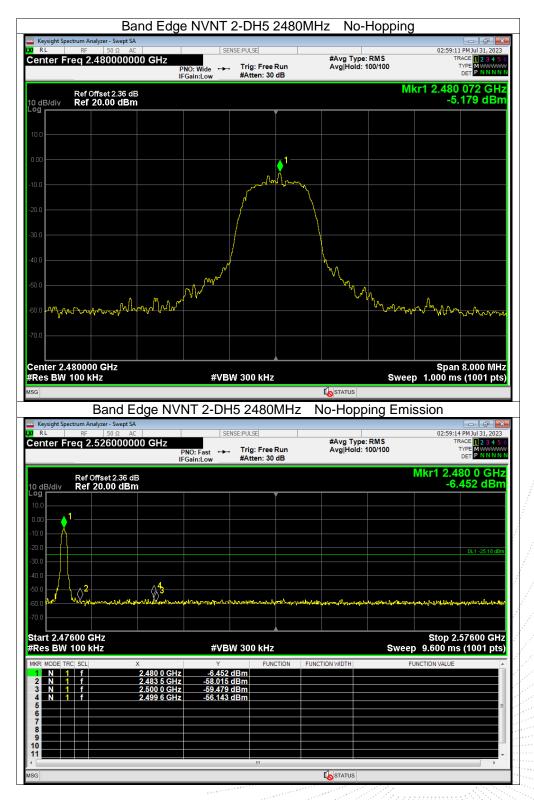
Edition: B.0

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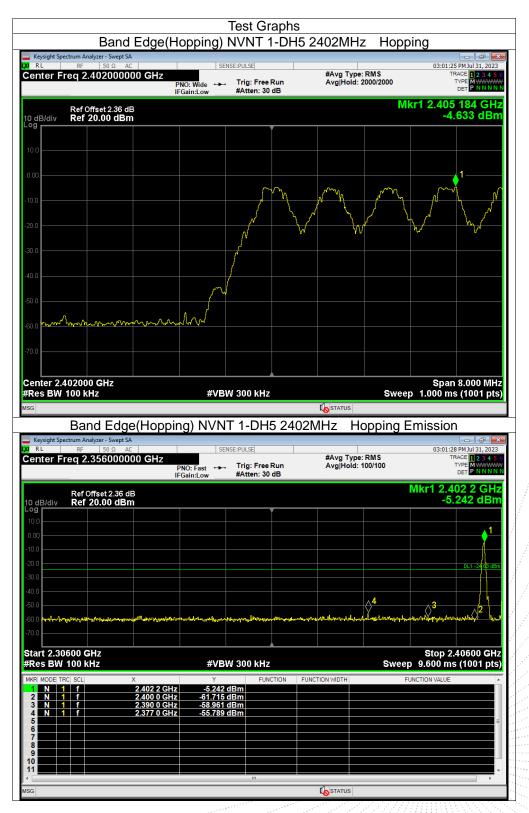
Keysight Spectrum Analyzer - Swep R L RF 50 Ω		SENSE:PULSE			02:56:08 PM Jul 31, 202
enter Freq 2.40200	0000 GHz	Talas Free		Avg Type: RMS vg Hold: 100/100	TRACE 1 2 3 4
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Keysight Spectrum Analyzer - Swep	pt SA		2MHz No-	Hopping Em	
Keysight Spectrum Analyzer - Swep R L RF 50 Ω	AC 0000 GHz	SENSE:PULSE	#	Avg Type: RMS	02:56:12 PM Jul 31, 202 TRACE
Keysight Spectrum Analyzer - Swep R L RF 50 Ω	AC OOOO GHZ PNO		#, Run A		02:56:12 PMJul 31, 202 TRACE 1 2 3 4 TYPE MWWW DET P. N.N.
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RL RF 50 Ω enter Freq 2.356000 Ref Offset 2.30 Ref Offset 2.30 Ref 2.00 d 9 0.0 0.0	AC OOOO GHZ PNO IFGai	SENSE:PULSE	#, Run A	Avg Type: RMS	02:56:12 PMJul 31, 202 TRACE 1 2 3 4 TYPE MWWW DET P NNN Mkr1 2.402 0 GH
Reysight Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.356000 Ref Offset 2.37 α dB/div Ref 2000 d 0 0	AC AC OOOO GHZ PNO IFGai 6 dB	SENSE:PULSE	#, Run A	Avg Type: RMS	02:56:12 PMJul 31, 202 TRACE 1 2 3 4 TYPE MWWW DET P NNN Mkr1 2.402 0 GH
Rejeight Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.356001 Ref Offset 2.33 0 dB/div Ref 20.00 d 0 0 0 0 0 0	AC AC OOOO GHZ PNO IFGai 6 dB	SENSE:PULSE	#, Run A	Avg Type: RMS	02:56:12 PMJul 31, 202 TRACE 1 2 3 4 TYPE MWWW DET P NNN Mkr1 2.402 0 GH
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Keyzight Spectrum Analyzer - Sweg RL RF 50 Q enter Freq 2.356000 Ref Offset 2.31 dB/div Ref Offset 2.31 dB/div Ref 20.00 d 00 0 0 0 0 00 0	AC AC OOOO GHZ PNO IFGai 6 dB	SENSE:PULSE	#, Run A	Avg Type: RMS	02:56:12 PM J01 31,202 TRACE 1 2 34 TYPE MWWW DET P NNNI Mkr1 2.402 0 GH -5,511 dBu
Keysight Spectrum Analyzer - Sweg RL RF 50 Q Ref Offset 2.33 Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2"	AC AC OOOO GHZ PNO IFGai 6 dB	SENSE:PULSE	#, Run A	Avg Type: RMS	02:56:12 PM J01 31,202 TRACE 1 2 34 TYPE MWWW DET P NNNI Mkr1 2.402 0 GH -5,511 dBu
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Keysight Spectrum Analyzer - Sweg RL Ref 0ffset 2.30 Ref Offset 2.30	AC 0000 GHz PN0 IFGal 6 dB Bm	SENSE:PULSE Fast → Trig: Free #Atten: 30	**************************************	Avg Type: RMS vg Hold: 100/100	02:56:12 PMU 31,202 TRACE 12 34 UPPE MWWWW DET PNNN Mkr1 2.402 0 GH -5.511 dB 0 0 0 0 0 0 0 0 0 0 0 0 0
Keyzight Spectrum Analyzer - Sweg RL RF 50 Ω Ref Sto Ω	X 2.402 0 GHz X 2.402 0 GHz 2.400 0 GHz 2.400 0 GHz	SENSE:PULSE : Fast → : Trig: Free n:Low #Atten: 30 #Atten: 30 #VBW 300 kHz ¥ FUN -5.511 dBm -59.120 dBm	2 2 2 2 2 2	Avg Type: RMS vg Hold: 100/100	02:56:12 PM Jul 31, 202 TRACE 12 34 TYPE MANNA DET P NNN Mkr1 2.402 0 GH -5.511 dB1 -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -5.511 dB
Keyzight Spectrum Analyzer - Sweg RL RF 50 Q enter Freq 2.356000 Ref Offset 2.37 0 dB/div Ref Offset 2.37 0 d	AC PN0 AC PN0 IFGai Bm 6 dB IfGai 8 m IfGai 9 model IfGai	SENSE:PULSE : Fast → Trig: Free n:Low #Atten: 30 #VBW 300 kHz ¥VBW 300 kHz Y FUN -55.11 dBm	2 2 2 2 2 2	Avg Type: RMS vg Hold: 100/100	02:56:12 PM Jul 31, 202 TRACE 12 34 TYPE MANNA DET P NNN Mkr1 2.402 0 GH -5.511 dB1 -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -5.511 dB
Keysight Spectrum Analyzer - Sweg RL Ref 0ffset 2.30 Ref Offset 2.31	X 2.402 0 GHz PN000 GHz PN00 IFGal 6 dB Bm 8 dB PN00 IFGal	SENSE:PULSE : Fast → : Trig: Free n:Low #Atten: 30 #Atten: 30 #VBW 300 kHz ¥ FUN -5.511 dBm -59.120 dBm	2 2 2 2 2 2	Avg Type: RMS vg Hold: 100/100	02:56:12 PM Jul 31, 202 TRACE 12 34 TYPE MANNA DET P NNN Mkr1 2.402 0 GH -5.511 dB1 -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -5.511 dB
Keyzight Spectrum Analyzer - Sweg RL RF 50 Ω Ref Offset 2.30 Ref Offset 2.30 GE/div Ref Offset 2.30 0 GE/div GE/div <th< td=""><td>X 2.402 0 GHz PN000 GHz PN00 IFGal 6 dB Bm 8 dB PN00 IFGal</td><td>SENSE:PULSE : Fast → : Trig: Free n:Low #Atten: 30 #Atten: 30 #VBW 300 kHz ¥ FUN -5.511 dBm -59.120 dBm</td><td>2 2 2 2 2 2</td><td>Avg Type: RMS vg Hold: 100/100</td><td>02:56:12 PM Jul 31, 202 TRACE 12 34 TYPE MANNA DET P NNN Mkr1 2.402 0 GH -5.511 dB1 -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -5.511 dB</td></th<>	X 2.402 0 GHz PN000 GHz PN00 IFGal 6 dB Bm 8 dB PN00 IFGal	SENSE:PULSE : Fast → : Trig: Free n:Low #Atten: 30 #Atten: 30 #VBW 300 kHz ¥ FUN -5.511 dBm -59.120 dBm	2 2 2 2 2 2	Avg Type: RMS vg Hold: 100/100	02:56:12 PM Jul 31, 202 TRACE 12 34 TYPE MANNA DET P NNN Mkr1 2.402 0 GH -5.511 dB1 -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -1. -5.511 dB1 -5.511 dB
Keysight Spectrum Analyzer - Sweg RL RF 50 Ω Ref Offset 2.36 OU Ref Offset 2.36 O dE/div Colspan="2">O de/div O de/div O de/div O de/div	X 2.402 0 GHz PN000 GHz PN00 IFGal 6 dB Bm 8 dB PN00 IFGal	SENSE:PULSE : Fast → : Trig: Free n:Low #Atten: 30 #Atten: 30 #VBW 300 kHz ¥ FUN -5.511 dBm -59.120 dBm	2 2 2 2 2 2	Avg Type: RMS vg Hold: 100/100	02:56:12 PM Jul 31,202 TRACE 12 34 TYPE M WANN DET P NNNN Mkr1 2.402 0 GH -5.511 dBI 011-2181 011-2





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Keysight Spectrum Analyzer - Swep R L RF 50 Ω		SENSE	DUL CE			02:06:01	PM Jul 31, 202
enter Freq 2.402000	0000 GHz			#Avg Type:		TR	ACE 1 2 3 4
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10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.

6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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10.4 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	0.948	Pass
NVNT	1-DH5	2441	0.989	Pass
NVNT	1-DH5	2480	0.986	Pass
NVNT	2-DH5	2402	1.316	Pass
NVNT	2-DH5	2441	1.327	Pass
NVNT	2-DH5	2480	1.323	Pass

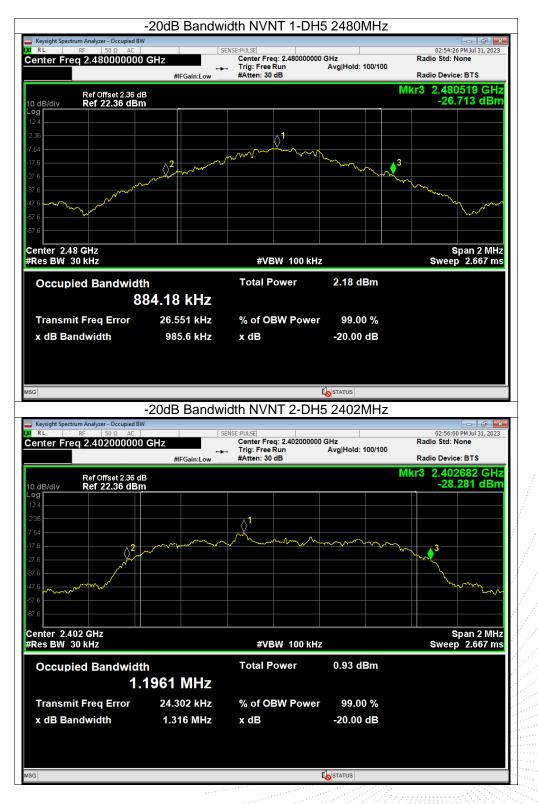


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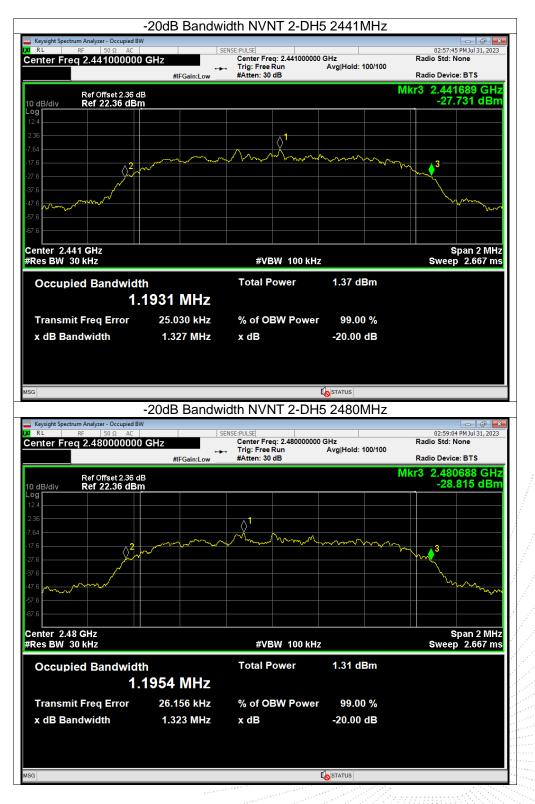














11. Maximum Peak Output Power

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.

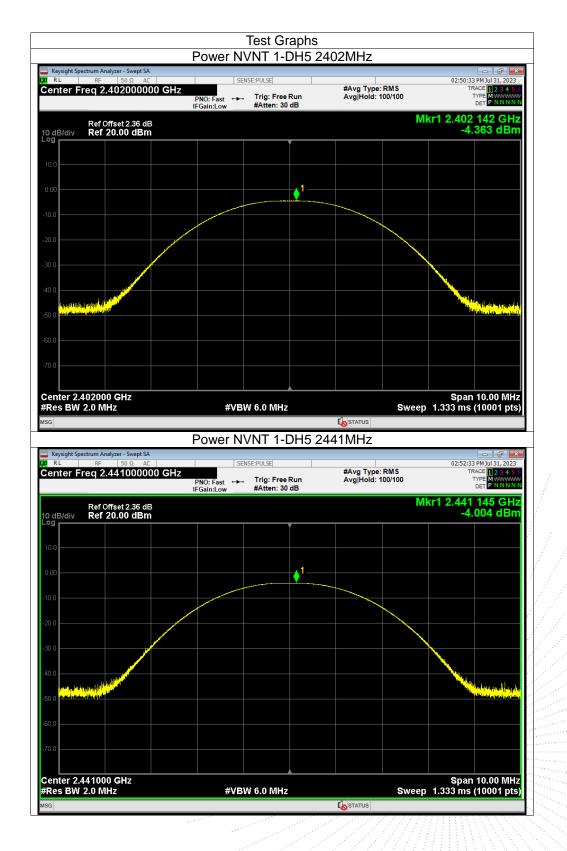
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.4 Test Result

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	-4.36	21	Pass
NVNT	1-DH5	2441	-4	21	Pass
NVNT	1-DH5	2480	-4.09	21	Pass
NVNT	2-DH5	2402	-3.46	21	Pass
NVNT	2-DH5	2441	-3.12	21	Pass
NVNT	2-DH5	2480	-3.2	21	Pass

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12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

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

12.3 Test procedure

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

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

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

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.018	2403.02	1.002	0.632	Pass
NVNT	1-DH5	2441.04	2442.038	0.998	0.659	Pass
NVNT	1-DH5	2479.022	2480.084	1.062	0.657	Pass
NVNT	2-DH5	2401.858	2402.868	1.01	0.877	Pass
NVNT	2-DH5	2440.878	2441.88	1.002	0.885	Pass
NVNT	2-DH5	2478.862	2480.028	1.166	0.882	Pass

12.4 Test Result



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Ref Offset dB/div Ref 2.441	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 1 1 1	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	5 PMJul 31, 2023 RACE    2 3 4 5 RACE    2 3 4 5 PACE    2 3 4
Reysight Spectrum Analyzer - RL RF 50 enter Freq 2.441 Ref Offset dB/div Ref 20.00 9 9 9 9 9 9 9 9 9 9 9 9 9	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ	:>100/100	sr1 2.441 -6.	2.000 MH:
Ref Offset dB/div Ref 2.00 Ref Offset dB/div Ref 20.0 dB/div Ref 20.0	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 1 1 1	CFS NVNT 1 SENSE:PULSE D: Wide Trig: ain:Low Trig: #Atte	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	2.000 MH:
Keysight Spectrum Analyzer -         RL       RF       Scenter Freq 2.441:         Ref Offset         dB/div       Ref 20.01         00       <	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	2.000 MH:
Reysight Spectrum Analyzer - RL RF Scenter Freq 2.441: Ref Offset dB/div Ref 20.00 Comparison Ref 20.00 Ref 20.00 Comparison Ref 20.00 Ref 2	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	2.000 MH:
Keysight Spectrum Analyzer - RL RF Scenter Freq 2.441: Beldiv Ref 20.01 Beldiv Re	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	2.000 MH:
Reysight Spectrum Analyzer - 50           Ref Offset           Ref Offset           GB/div         Ref Offset           dB/div         Ref Offset           Offset <t< td=""><td>Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm</td><td>CFS NVNT 1</td><td>I-DH5 24</td><td>441MHz #Avg Typ Avg Hold</td><td>:&gt;100/100</td><td>span 2.133 ms</td><td>2.000 MH:</td></t<>	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	2.000 MH:
Keysight Spectrum Analyzer -           Ref Offset           Ref Offset           dB/div         Ref Offset           00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm</td> <td>CFS NVNT 1</td> <td>I-DH5 24</td> <td>441MHz #Avg Typ Avg Hold</td> <td>:&gt;100/100</td> <td>span 2.133 ms</td> <td>2.000 MH:</td>	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	2.000 MH:
Keysight Spectrum Analyzer -         RL       RF       Scenter Freq 2.441:         Ref Offset         dB/div       Ref 20.01         00	Swept SA 20 AC 500000 GHz PNC IFG 2.36 dB 0 dBm 1 1 2.36 dB 0 dBm	CFS NVNT 1	I-DH5 24	441MHz #Avg Typ Avg Hold	:>100/100	span 2.133 ms	2.000 MH:



RL RF enter Freq 2.47	r - Swept SA 50 Ω AC	SENSE:PULSE	#Avg Type: RMS	03:03:30 PM Jul 31, 20 TRACE 1234
enter Freq 2.47	PNO:	: Wide 😱 Trig: Free Run in:Low #Atten: 30 dB	Avg Hold:>100/10	0 TYPE MWWW DET P NN
	et 2.36 dB 00 dBm			Mkr1 2.479 022 GI -6.396 dB
dB/div Ref 20.				-0.000 42
.0	1			2
0.0	m	M		m frank
		- month	m m m	m
0.0				
1.0 1.0				
enter 2.479500 G	Hz			Span 2.000 M
Res BW 30 kHz		#VBW 100 kHz		Sweep 2.133 ms (1001 p
R MODE TRC SCL	× 2.479 022 GHz	Y FUNCTION -6.396 dBm	FUNCTION WIDTH	FUNCTION VALUE
2 N 1 f 3 4	2.480 084 GHz	-6.789 dBm		
5 <b></b> 6 <b></b>				
8				
9 0 1				
				•
3			STATUS	
			2402111-	
Keysight Spectrum Analyze		FS NVNT 2-DH5	2402MHz	
	r - Swept SA 50 Ω AC	SENSE:PULSE	#Avg Type: RMS	03:04:48 PM Jul 31, 20
R L RF	r - Swept SA 50 Ω AC 2500000 GHz PNO:			03:04:48 PM Jul 31, 20 TRACE 1 2 3 4
RL RF enter Freq 2.40 Ref Offs	r-Swept SA 50 Ω AC 2500000 GHz PNO: IFGal et 2.36 dB	SENSE:PULSE	#Avg Type: RMS	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL RF enter Freq 2.40 Ref Offso 0 dB/div Ref 20.	r - Swept SA 50 Ω AC 2500000 GHz PNO: IFGai	SENSE:PULSE	#Avg Type: RMS	03:04:48 PMJul 31, 20 TRACE 1 2 3 4 TYPE M WWW DET P N N
RL RF enter Freq 2.40 Ref Offs dB/div Ref 20.	r-Swept SA 50 Ω AC 2500000 GHz PNO: IFGal et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL RF enter Freq 2.40 Ref Offse Ref Offse 9 0.0	r-Swept SA 50 Ω AC 2500000 GHz PNO: IFGal et 2.36 dB	SENSE:PULSE	#Avg Type: RMS	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL RF enter Freq 2.40 Ref Offs: dB/div Ref 20.	r-Swept SA 50 Ω AC 2500000 GHz PNO: IFGal et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL RF enter Freq 2.40 Ref Offso dB/div Ref 20.	r-Swept SA 50 Ω AC 2500000 GHz PNO: IFGal et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL         RF           enter Freq 2.40           dB/div         Ref Offs           00         Ref 20.	r-Swept SA 50 Ω AC 2500000 GHz PNO: IFGal et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL         RF           enter Freq 2.40           Ref Offs-           dB/dlv         Ref 20.           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0	r-Swept SA 50 Ω AC 2500000 GHz PNO: IFGal et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL         RF           enter Freq 2.40           Ref Offs.           dB/div         Ref 20.           9	r-Swept SA 50.0_AC 2500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:04:48 PM Jul 31, 22 TRACE 12 34 TRACE 12 34 TYPE 14 TYPE 14 TYPE 14 TYPE 14 TYPE 14 TYPE 14 TYPE 14 TYPE 12 TYPE 12
RL         RF           enter Freq 2.40           Ref Offs           dB/div         Ref 20.           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           0	r-Swept SA 50.0_AC 2500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/10	03:04:48 PM Jul 31, 20 TRACE 2 3 4 TYPE MWWW DET P NNN Mkr1 2.401 858 GI
RL         RF           enter Freq 2.40           BJ/dlv           Ref Offs           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000      <	r-Swept SA 50 \(\Omega \) AC 2500000 GHz PNO: IFGai at 2.36 dB 00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/10	03:04:48 PM Jul 31, 20 TRACE 12 24 O TYPE MANN DET P MANN Mkr1 2.401 858 GI -6.726 dB
RL         RF           enter Freq 2.40           Ref Offs.           dB/div         Ref 20.           9	r-Swept SA 50 Q AC 2000 GHz 2500000 GHz PNO: IFGai et 2.36 dB 00 dBm	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/10	03:04:48 PMJul 31, 20 TRACE 11 2:4 O Mkr1 2:401 858 GI -6.726 dB
RL         RF           enter Freq 2.40           Ref Offs.           dB/div         Ref 20.9           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	r-Swept SA 50 Q AC 2500000 GHz PNO: IFGai et 2.36 dB 00 dBm 1 1 3 Hz X 2.401 858 GHz	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/10	03:04:48 PMJul 31, 20 TRACE 11 2:4 O Mkr1 2:401 858 GI -6.726 dB
RL         RF         Ref Offs.           enter Freq 2.40         Ref Offs.         Ref Offs.           dB/div         Ref 20.         Ref 20.         Ref 20.           00         0         0         0         0           00         0         0         0         0           00         0         0         0         0           00         0         0         0         0           00         0         0         0         0           00         0         0         0         0           00         0         0         0         0         0           00         0         0         0         0         0         0           00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	r-Swept SA 50 Q AC 2500000 GHz PNO: IFGai et 2.36 dB 00 dBm 1 1 3 Hz X 2.401 858 GHz	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/10	03:04:48 PMJul 31, 20 TRACE 11 2:4 O Mkr1 2:401 858 GI -6.726 dB
RL         RF           enter Freq 2.40           Ref Offs.           dB/div         Ref 20.           0	r-Swept SA 50 Q AC 2500000 GHz PNO: IFGai et 2.36 dB 00 dBm 1 1 3 Hz X 2.401 858 GHz	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/10	03:04:48 PMJul 31, 20 TRACE 11 2:4 O Mkr1 2:401 858 GI -6.726 dB

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RL RF enter Freq 2.44	PN	SENSE:PULSE O: Wide Trig: Free Run ain:Low #Atten: 30 dB	#Avg Type: RMS Avg Hold:>100/100	03:13:20 PM Jul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNN
	et 2.36 dB 00 dBm		Mk	r1 2.440 878 GH -9.482 dBn
.00		mm ===================================	2	
	man man			
0.0				
0.0				
enter 2.441500 G Res BW 30 kHz	<b>H</b> Z	#VBW 100 kHz	Sweep	Span 2.000 MH 2.133 ms (1001 pts
R     MODE     TRC     SCL       1     N     1     f       2     N     1     f	× 2.440 878 GHz 2.441 880 GHz	Y FUNCTION F -9.482 dBm -9.632 dBm	UNCTION WIDTH FL	NCTION VALUE
	2.441 000 GH2	-5.052 (1)		
6 7 8				
9 0 1				
3				Þ
			STATUS	
	(	CFS NVNT 2-DH5 24	Kostatus 180MHz	
RL RF	r - Swept SA 50 Ω AC	CFS NVNT 2-DH5 24	80MHz	03:08:28 PM Jul 31, 2023
RL RF	r - Swept SA 50 Ω AC 9500000 GHz PN			
RL RF enter Freq 2.47 Ref Offs	r - Swept SA 50 Ω AC 9500000 GHz PN IFG et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN
RL RF enter Freq 2.47 Ref Offs 0 dB/div Ref 20.	r - Swept SA 50 Ω AC 9500000 GHz PN IFG	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PM Jul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
RL RF enter Freq 2.47 Ref Offs: 0 dB/div Ref 20.	r - Swept SA 50 Ω AC 9500000 GHz PN IFG et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN
RL RF enter Freq 2.47 Ref Offs dB/div Ref 20.	r - Swept SA 50 Ω AC 9500000 GHz PN IFG et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN
RL R€ enter Freq 2.47 Ref Offs dB/div Ref 20. 00 00 00 00 00 00 00 00 00	r - Swept SA 50 Ω AC 9500000 GHz PN IFG et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN
RL         RF           enter Freq 2.47           Ref Offs           0 dB/div         Ref 20.           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	r - Swept SA 50 Ω AC 9500000 GHz PN IFG et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN
RL         R€           enter Freq 2.47           Beldiv           Ref Offs           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	r - Swept SA 50 Ω AC 9500000 GHz PN IFG et 2.36 dB	SENSE:PULSE	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJul 31, 2023 TRACE 1 2 3 4 5 TYPE MWWW DET PNNNN
RL         RF           enter Freq 2.47           rdB/div           Ref Offs-           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000           000	r-Swept SA 50.9 AC   9500000 GHz PN IFG et 2.36 dB 00 dBm	SENSE:PULSE       O: Wide ain:Low       Trig: Free Run #Atten: 30 dB	#Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJU 31, 2023 TRACE [] 2 3 4 3 TYPE MINNN per PNNNN r1 2.478 862 GH: -6.518 dBn
RL         RF           enter Freq 2.47           Beldiv           Ref Offs           Ref Offs           0 B/div           Ref 20.           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	r-Swept SA 50 Q AC 9500000 GHz PN IFG et 2.36 dB 00 dBm 00 dBm 00 dBm 00 dBm	SENSE:PULSE	BOMHZ #Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJJul 31, 2023 TRACE [] 2 3 4 5 TYPE MININN pt P NINNN r1 2.478 862 GH; -6.518 dBn
RL         RF           enter Freq 2.47           dB/div         Ref Offs           0	r-Swept SA 50.9 AC   PN 9500000 GHz PN PC PC PC PC PC PC PC PC PC PC	SENSE:PULSE	BOMHZ #Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJU 31, 2023 TRACE [] 2 3 4 3 TYPE MININ ort 2.478 862 GH; -6.518 dBn
RL         RF           enter Freq 2.47           dB/div         Ref Offs.           08/div         Ref 20.           09	r-Swept SA 50 Q AC 9500000 GHz PN IFG et 2.36 dB 00 dBm 00 dBm 00 dBm 00 dBm	SENSE:PULSE	BOMHZ #Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJU 31, 2023 TRACE [] 2 3 4 3 TYPE MININ ort 2.478 862 GH; -6.518 dBn
Ref Offs. Ref Offs. Ref 20. 9 0 0 0 0 0 0 0 0 0 0 0 0 0	r-Swept SA 50 Q AC 9500000 GHz PN IFG et 2.36 dB 00 dBm 00 dBm 00 dBm 00 dBm	SENSE:PULSE	BOMHZ #Avg Type: RMS Avg Hold:>100/100	03:08:28 PMJU 31, 2023 TRACE [] 2 3 4 3 TYPE MININ ort 2.478 862 GH; -6.518 dBn

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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

Co	ndition	Mode	Hopping Number	Limit	Verdict
١	IVNT	1-DH5	79	15	Pass
٦	IVNT	2-DH5	79	15	Pass



	<b>T</b> (	O	Report No	D.:BCTC2307
L	Iest Hopping No. NVN	Graphs		
Keysight Spectrum Analyzer - Swept SA				
RL RF 50 Ω AC	SENSE:PULSE		T	03:01:10 PM Jul 31, 2023
enter Freq 2.441750000 GH	PNO: Fast Trig: F	#Avg Free Run Avg	Type: RMS Hold:>100/100	TRACE 1 2 3 4 5 TYPE M WWW DET P NNNN
	IFGain:Low #Atter	: 30 dB		
Ref Offset 2.36 dB			Mkr1	2.402 087 5 GH
dB/div Ref 20.00 dBm				-4.976 dBm
0.0				
.00				<b>∂</b> 2
	<u> </u>		₩₩₩₩₩₩₩₩₩	
	<u>n f á á f á f í a a fia á á á á a b</u> a	<u>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>		4400.940.600.44
0.0				
0.0				
0.0				
0.0				
tart 2.40000 GHz				Stop 2.48350 GH
Res BW 100 kHz	#VBW 300 I	(Hz	-	8.000 ms (1001 pts
KR         MODE         TRC         SCL         X           1         N         1         f         2.402 087 5	GHz -4.976 dBm	FUNCTION FUNCTION WIDT	TH FUN	CTION VALUE
2 N 1 f 2.480 076 5	GHz -4.538 dBm			
3 4				
5 6				
7				
9				
0				
				4
G				
ŀ	Hopping No. NVN	NT 2-DH5 2441	IMHz	
Keysight Spectrum Analyzer - Swept SA           R L         RF         50 Ω         AC	SENSE:PULSE			03:05:49 PM Jul 31, 2023
RL RF 50 Ω AC enter Freq 2.441750000 GH2	Z	#Avg	Type: RMS	TRACE 1 2 3 4 5 TYPE M WWW DET P NNNN
		Free Run Avg l n: 30 dB	Hold:>100/100	DET P NNNN
			Mkr1	2.402 004 0 GH
Ref Offset 2.36 dB dB/div <b>Ref 20.00 dBm</b>				-6.052 dBm
<b>9</b> g		The second se		
0.0 1.00 1				^ <b>2</b>
0.0 LANGERLAND	manulumaanked	MMMMM	mmmu	mannar
0.0				
0.0				
0.0				
				h
0.0				
tart 2.40000 GHz	#VBW 300		Swoon	Stop 2.48350 GHz
Res BW 100 kHz			-	8.000 ms (1001 pts
KR         MODE         TRC         SCL         X           1         N         1         f         2.402 004 0	GHz -6.052 dBm	FUNCTION FUNCTION WIDT	FUN	CTION VALUE
2 N 1 f 2.480 076 5				
4				
5				
7 8				
0				
9 0 1				



### 14. Dwell Time

### 14.1 Block Diagram Of Test Setup



### 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).

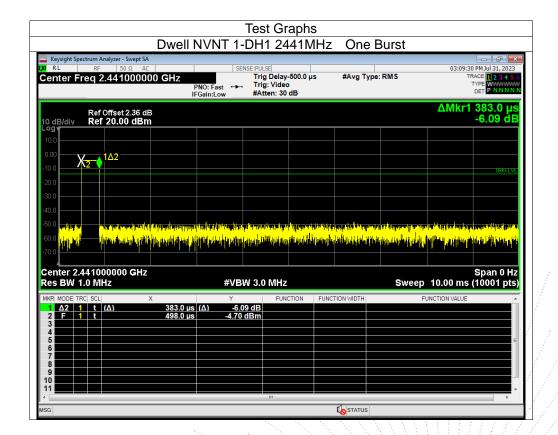
DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

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Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.383	122.56	400	Pass
NVNT	1-DH3	2441	1.638	266.994	400	Pass
NVNT	1-DH5	2441	2.887	314.683	400	Pass
NVNT	2-DH1	2441	0.391	124.729	400	Pass
NVNT	2-DH3	2441	1.644	261.396	400	Pass
NVNT	2-DH5	2441	2.892	312.336	400	Pass



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	Dwell I	NVNT 1-D	H3 2441N	/IHz One	Burst		
Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000	F	PNO East ↔→	PULSE Trig Delay-500.0   Trig: Video #Atten: 30 dB	us #Avg Typ	e: RMS	TR	C C C C C C C C C C C C C C C C C C C
Ref Offset 2.36 dB 0 dB/div Ref 20.00 dBm						∆Mkr1	1.638 m -2.33 dE
0.00							
10.0 20.0 X <mark></mark>	<b>1</b> ∆2						TRIG LV
30.0							
40.0							
10.0 50.0 <mark>701400 50.0 0.0</mark>	restant over the line <mark>e l</mark> eftertalis dage be	alana kalena ti <mark>bina pakina asiri.</mark> Pina ang mang m <mark>bina pakina pakina kalena p</mark>		n lana hara ing sara (asi si sa si <mark>a lan di s</mark> ala lan di sa			na sela nobli sha Mani pol ^{da} sa cal
40.0	ranariyan "Tila Alafatali dijata				<mark>di ala handa nda ana</mark>	an haan aa ah	Span 0 H
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400 500 500 500 500 500 500 500	<mark>je lette to</mark> to dage ka	#ν.α #VBW : (Δ) -2.33 d	3.0 MHz	u <mark>lurs du a c</mark> ilitation	Sweep	10.00 ms (	Span 0 H
40.0         1           50.0         1           50.0         1           50.0         1           50.0         1           50.0         1           50.0         1           50.0         1           50.0         1           6         1	1.638 ms	#VBW 3	3.0 MHz	u <mark>lurs du a c</mark> ilitation	Sweep	10.00 ms (	Span 0 H

	Dwell NVNT 1-DF	15 2441MHz	One Burst	
Keysight Spectrum Analyzer - Swept SA K RL RF 50 Ω AC Center Freq 2.44100000		^{ULSE} rig Delay-500.0 μs rig: Video Atten: 30 dB	#Avg Type: RMS	03:01:58 PM Jul 31, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N
Ref Offset 2.36 dE 10 dB/div Ref 20.00 dBm				ΔMkr1 2.887 ms 1.77 dB
10.0				
-10.0	1Δ2			IRIG LVL
-20.0				
-40.0 -50.0 (10) (10) (10) (10) (10) (10) (10) (10				
-60.0 <mark>((),))(),))()())()()()()()()()()()()()(</mark>			<mark>i çin yer tik yer ever rik dekişir.</mark> A yan	e zersenet i forkkenet i neder og en en de til fo Digen er i ster forskeller og en vikste og etter for
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3	.0 MHz	Sweep	Span 0 Hz 10.00 ms (10001 pts)
	X Y		TION WIDTH F	UNCTION VALUE
1 Δ2 1 t (Δ) 2 F 1 t	2.887 ms (Δ) 1.77 dE 486.0 μs -17.77 dBm			
3 4				
5				==
7				
9				
10				
				4
MSG			STATUS	



	Dwell NVI	NT 2-DH	1 2441N	IHZ One	Burst		
Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.441000000		ast 🛶 Tric	SE g Delay-500.0 μ g: Video ten: 30 dB	s #Avg Typ	e: RMS	03:11:10 PM Jul 3 TRACE 1 TYPE W DET P	1,202 2 3 4 1
Ref Offset 2.36 dE 0 dB/div <b>Ref 20.00 dB</b> m						ΔMkr1 391. -3.6	
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0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<mark>innen er ljunet (i pol</mark> jen <mark>j</mark> erelje <	#VBW 3.0	hannall an		Sweep	Spar	10    (*
0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td>line e leanthip trias</td> <td>#VBW 3.0</td> <td>MHz</td> <td>an an a</td> <td>Sweep</td> <td>Spar 10.00 ms (1000</td> <td>10    (*</td>	line e leanthip trias	#VBW 3.0	MHz	an a	Sweep	Spar 10.00 ms (1000	10    (*
0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td>(Δ) μη μη</td> <td>#VBW 3.0</td> <td>MHz</td> <td><mark>, dag ja da</mark> da kana kang pada sa pa</td> <td>Sweep</td> <td>Spar 10.00 ms (1000</td> <td>10    (*</td>	(Δ) μη	#VBW 3.0	MHz	<mark>, dag ja da</mark> da kana kang pada sa pa	Sweep	Spar 10.00 ms (1000	10    (*
300         μητοβ	(Δ) μη	#VBW 3.0	MHz	<mark>, dag ja da</mark> da kana kang pada sa pa	Sweep	Spar 10.00 ms (1000	10 H
0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td>(Δ) μη μη</td> <td>#VBW 3.0</td> <td>MHz</td> <td><mark>, dag ja da</mark> da kana kang pada sa pa</td> <td>Sweep</td> <td>Spar 10.00 ms (1000</td> <td>10 H</td>	(Δ) μη	#VBW 3.0	MHz	<mark>, dag ja da</mark> da kana kang pada sa pa	Sweep	Spar 10.00 ms (1000	10 H
0.0         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α         α <td< td=""><td>(Δ) μη μη</td><td>#VBW 3.0</td><td>MHz</td><td><mark>, dag ja da</mark> da kana kang pada sa pa</td><td>Sweep</td><td>Spar 10.00 ms (1000</td><td>10 H</td></td<>	(Δ) μη	#VBW 3.0	MHz	<mark>, dag ja da</mark> da kana kang pada sa pa	Sweep	Spar 10.00 ms (1000	10 H

	Dwell N	VNT 2-DF	H3 2441N	MHz One	Burst		
Keysight Spectrum Analyzer - Swept SA     RF S0 Ω AC     Center Freq 2.44100000	PN	0: Fast ↔ T	^{ULSE} rig Delay-500.0 rig: Video Atten: 30 dB	µs #Avg Ty	rpe: RMS	TR/ T	PM Jul 31, 2023 ACE 1 2 3 4 5 6 YPE WWWWWW DET P NNNNN
Ref Offset 2.36 dE 10 dB/div Ref 20.00 dBm							l.644 ms -0.56 dB
-10.0							TRIG LVL
-30.0							
-50.0 ((1))				n din tana di malama (mala) basi na di sana di sana din tana di sana di sana di sana di sana di sana di sana di			
-70.0	all a salar di salar a	al mit ann aite ann a a	an an la china an a	on ku mukontiku.			
Center 2.441000000 GHz Res BW 1.0 MHz		#VBW 3	.0 MHz		Sweep	10.00 ms (	Span 0 Hz 10001 pts)
1 Δ2 1 t (Δ) 2 F 1 t	<ul> <li>1.644 ms (, 485.0 μs</li> </ul>	Y  	FUNCTION 3	FUNCTION WIDTH	FL	JNCTION VALUE	
3 4 5 6							
7							
			m	2			
MSG							

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	Dwell I	NVNT 2-I	DH5 24	41MHZ	One I	Burst		
Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44100000	I	PNO: Fast +++ FGain:Low	SE:PULSE Trig Delay- Trig: Video #Atten: 30 d		#Avg Type	e: RMS		PM Jul 31, 2023 RACE 1 2 3 4 5 TYPE WWWWW DET PNNNN
Ref Offset 2.36 dB 0 dB/div <b>Ref 20.00 dBm</b>							ΔMkr1	2.892 m 4.02 dl
10.0 .00	_ <mark>_</mark> 1∆2							
0.0 X2								
30.0								
40.0								
0.0 (m)m		hirderpour televolation a dati e produce In filozo, filozofia a sedera populario In filozofia a sedera populario dati						
enter 2.441000000 GHz		<mark>l y koné, kon pikana podping ad</mark>				10-41314-1-131-194-194-194-194 	<mark>,j∬p∄≬pon,tka_{nst}p</mark>	Span 0 H
Conter 2.441000000 GHz Center 2.441000000 GHz Les BW 1.0 MHz KRI MODE [TRC] SCL X		վես, <u>երեսնանիր էվ</u> #VBW	<b>4 (19)1</b> 10(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14) 11(14)	<mark>ta dipadipatén dipatén dipatén Nati</mark>		Sweep	<mark>,j∬p∄≬pon,tka_{nst}p</mark>	Span 0 H
$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\$		#VBW	V 3.0 MHz	<mark>ta dipadipatén dipatén dipatén Nati</mark>	1 <u>4.499444</u> 144 <u>4</u> 1	Sweep	15.33 ms	Span 0 H
0.0         μ           0.0         μ           center 2.441000000 GHz           test BW 1.0 MHz           KR MODE TRC SCL           XZ         1           4         2           7         1           2         7           3         4	2.892 ms	#VBW	V 3.0 MHz	<mark>ta dipadipatén dipatén dipatén Nati</mark>	1 <u>4.499444</u> 144 <u>4</u> 1	Sweep	15.33 ms	Span 0 H
0.0         μ           0.0         μ           eenter 2.441000000 GHz           ees BW 1.0 MHz           KRI MODE TRCI SCL           XA2         1           4           5           6           7	2.892 ms	#VBW	V 3.0 MHz	<mark>ta dipadipatén dipatén dipatén Nati</mark>	1 <u>4.499444</u> 144 <u>4</u> 1	Sweep	15.33 ms	

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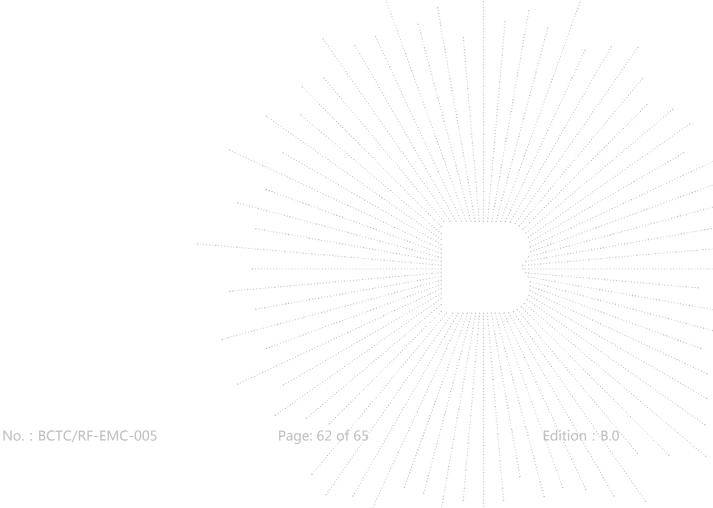
### 15. Antenna Requirement

### 15.1 Limit

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

### 15.2 Test Result

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





# 16. EUT Test Setup Photographs

Conducted emissions

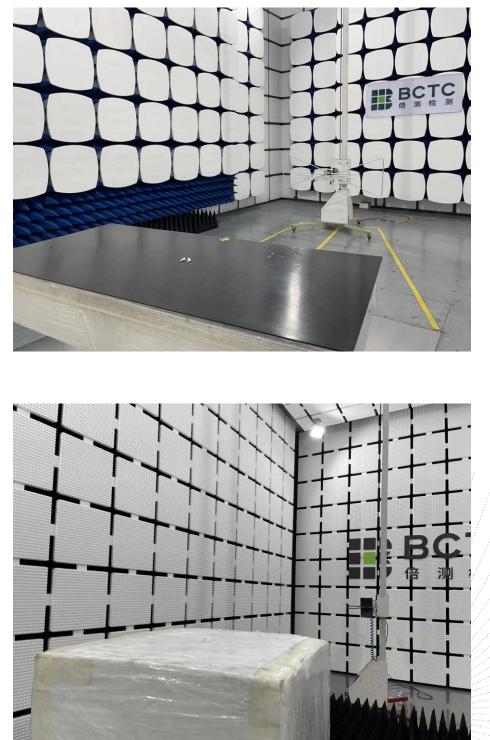


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### Radiated Measurement Photos





# **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 the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

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

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

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

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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