

Report No.: POCE230818307VRW

RF TEST REPORT

For

MAYFLASH LIMITED

Product Name: F700 Arcade Stick

Model(s).: F700

Report Reference No. : POCE230818307VRW

FCC ID : 2ASVQ-F700

Applicant's Name : MAYFLASH LIMITED

Address 3/F,Buiding No.1,TingWei Industrial Park,LiuFang Rd, No.67, BaoAn,

Shenzhen, China.

Testing Laboratory: Shenzhen POCE Technology Co., Ltd.

Address 102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park,

Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

ANSI C63.10-2013 & KDB 558074 D01 Meas Guidance v05r02

Date of Receipt : August 09, 2023

Date of Test : August 09, 2023 to August 30, 2023

Data of Issue : August 30, 2023

Result : Pass

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Revision History Of Report

Report No.: POCE230818307VRW

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE230818307VRW	August 30, 2023

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:	Supervised by:	Approved by:		
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Report No.: POCE230818307VRW



1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.215(c)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item

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^{2.} RF-conducted test results including cable loss.



2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : MAYFLASH LIMITED

Address : 3/F,Buiding No.1,TingWei Industrial Park,LiuFang Rd, No.67, BaoAn,

Shenzhen, China.

Manufacturer : MAYFLASH LIMITED

Address : 3/F,Buiding No.1,TingWei Industrial Park,LiuFang Rd, No.67, BaoAn,

Shenzhen, China.

2.2 Description of Device (EUT)

Product Name:	F700 Arcade Stick
Sample number:	230818002
Model/Type reference:	F700
Series Model:	1
Model Difference:	
Trade Mark:	1 OGE
Product Description:	F700 Arcade Stick
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK
Antenna Type:	PCB ANT
Antenna Gain:	2.64dBi
Hardware Version:	V0.4
Software Version:	V1.0
Power:	DC 5.0V /DC3.7V from battery
20CF	2000

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

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20	2421MHz	40	2441MHz	60	2461MHz	61	2462MHz
						.	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
rest channel	BDR/EDR
Lowest channel	2402MHz
Middle channel	2441Hz
Highest channel	2480MHz

2.3 Description of Test Modes

No	Title	Description
TM1	TX-GFSK (Non-	Keep the EUT in continuously transmitting mode (non-hopping) with
	Hopping)	GFSK modulation.
TM2	TX-Pi/4DQPSK (Non-	Keep the EUT in continuously transmitting mode (non-hopping) with
11012	Hopping)	Pi/4DQPSK modulation.
TM3	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with
TIVIS	TX-GI SK (Hopping)	GFSK modulation,.
T1.4.4	TX-Pi/4DQPSK	Keep the EUT in continuously transmitting mode (hopping) with
TM4	(Hopping)	Pi/4DQPSK modulation.
In the re	eport, only the worst mode C	GFSK was recorded for testing items Emissions in restricted and
banded	ge	

Title	Description	PU	00		
TM1/ TM2/ TM3/ TM4	Keep the EUT works modulation.	Keep the EUT works in continuously transmitting mode with GFS modulation.			
PO		s used. ng command into the engineering mode. nand: *#*#3646633#*#*	POC		
	Special software:				
	8231_8367_8369.ini · SWIRE	SW8 SP			
	Setting: 2402 Set_Channel	Tx Rx Set_Giplo			
	7dbm - Set_Power BLE_1M - Set_RF_Mode	Log_Window:			
	Carrier CarrierData Hop				
	RX:				
E					
		73			

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2.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration

Γ	Item	Description Manufacturer		Model No.	Remark	Certification
Ī	1	adapter	huawei	HW-100100C01	Provide by lab	SDOC
	2	PC	DELL	TP00067A	Provide by lab	SDOC

2.5 Equipments Used During The Test

Conducted Emission at AC power line									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal. Due Date				
Shielding room	CY	8*4*3	20160102	2023/1/26	2025/1/25				
Pulse Limiter	Schwarzbeck	VTSD 9561	561-G071	2023/2/27	2024/2/26				
Cable	Schwarzbeck	1	/	2023/2/27	2024/2/26				
Test Receiver	Rohde & Schwarz	ESPI	1164.6607K03- 102109-MH	2023/6/13	2024/6/12				
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2022/12/29	2023/12/28				
L.I.S.N	Schwarzbeck	NSLK 8126	NSLK 8126	2023/8/8	2024/8/7				
50ΩCoaxial Switch	Anritsu	MP59B	M20531	1	1				
EMI Testsoftware	Farad	EZ -EMC	V1.1.42	1	1				

Emissions in restric	ted frequency band	ds and RF			0
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Test Receiver	R&S	ESCI	102109	2023/6/13	2024/6/12
Spectrum Analyzer	R&S	FSP30	1321.3008K40- 101729-jR	2023/6/14	2024/6/13
966 Chamber	CY	9*6*6	20160101	2023/1/26	2025/1/25
Bore-sighting Antenna rack	PBB	1308503	16033	1	1
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021/7/5	2024/7/4
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023/5-21	2025/5-20
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023/5/13	2025/5/12
Horn antenna	COM-POWER	AH-1840(40G)	10100008	2023/4/5	2025/4/4
Power APM(LF)	Schwarzbeck	BBV9743	9743-151	2023/6/13	2024/6/12
Power APM(HF)	Schwarzbeck	BBV9718	9718-282	2023/6/13	2024/6/12
Cable(LF)#2	Schwarzbeck	1	1	2023/2/27	2024/2/26
Cable(LF)#1	Schwarzbeck	1	1	2023/2/27	2024/2/26
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2023/2/28	2024/2/27
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2023/2/27	2024/2/26
Power divider	MIDEWEST	PWD-2533	SMA-79	2023/5/11	2026/5/10
signal generator	Keysight	N5181A	MY48180415	2022/12/10	2023/12/9
signal generator	Keysight	N5182A	MY50143455	2022/12/29	2023/12/28
Spectrum Analyzer	Keysight	N9020A	MY53420323	2022/12/29	2023/12/28
RF Sensor Unit	TACHOY	TR1029-2	000001	1	
RF Control Unit	TACHOY	TR1029-1	000001	4	

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Position Controller	MF	MF-7802	1	1	1
EMI Testsoftware	Farad	EZ -EMC	V1.1.42	/	1
RF TestSoftware	TACHOY	RTS-01	V2.0.0.0	/	1

2.6 Statement Of The Measurement Uncertainty

±3.41dB ±3.63% ±0.234%		
±0.234%		
2×10-7		
±0.733dB		
±3.1%		
±1.98dB		
±5.46dB		
±5.79dB		
,		

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen POCE Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen POCE Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration No.:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by POCE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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Report No.: POCE230818307VRW

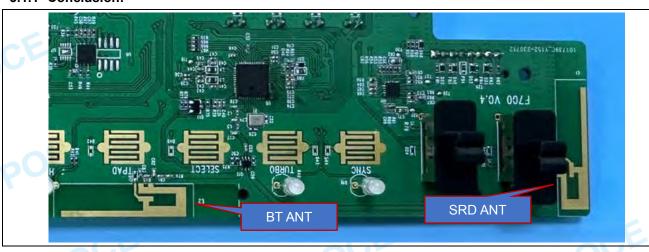
3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:





4 Radio Spectrum Matter Test Results (RF)

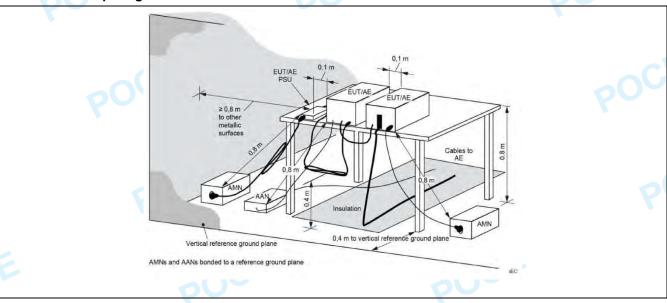
4.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).						
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)					
	Quasi-peak Average						
	0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50						
	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2						
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices						

4.1.1 E.U.T. Operation:

Operating Environment:						
Temperature:	22.5 °C		Humidity:	50.2 %	Atmospheric Pressure:	102 kPa
Pre test mode:		TM1				
Final test mode:		TM1				-06

4.1.2 Test Setup Diagram:



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4.1.3 Test Data:

14.2126

14.2881

11

12

34.84

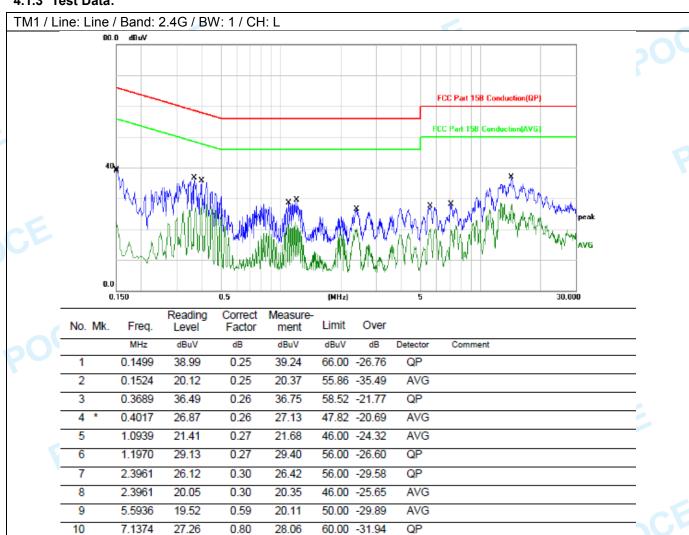
26.08

2.02

2.04

36.86

28.12



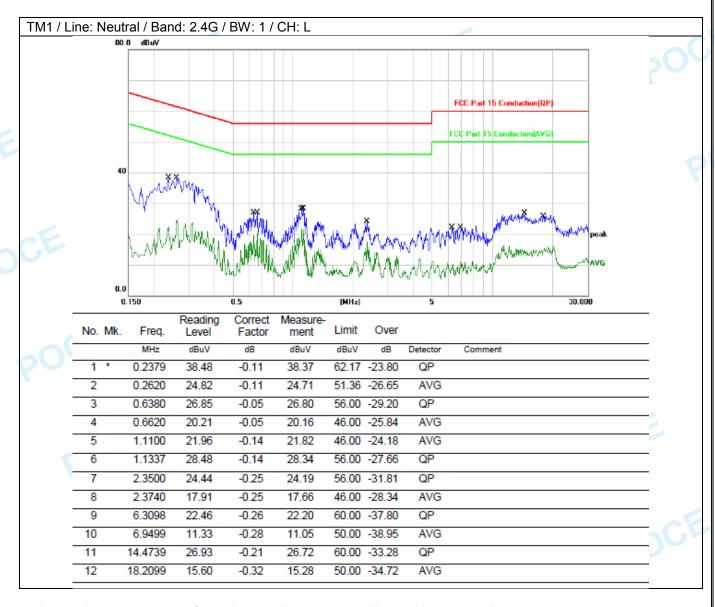
60.00 -23.14

50.00 -21.88

QΡ

AVG





- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement

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4.2 Occupied Bandwidth

4.2 Occupied Band	Width
Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

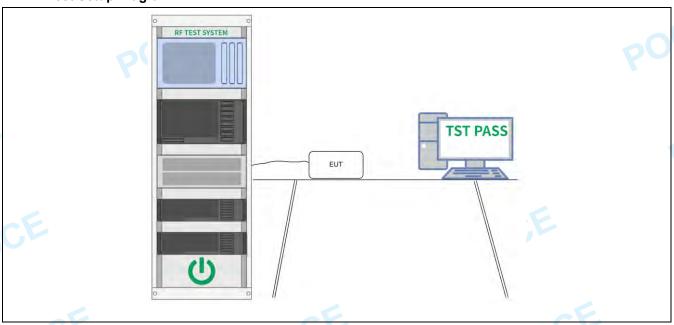
4.2.1 E.U.T. Operation:

Operating Environment:							
Temperature:	22.5 °C	C	Humidity:	50.2 %		Atmospheric Pressure:	102 kPa
Pre test mode:		TM1,	TM2,				
Final test mode:		TM1,	TM2				

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4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.



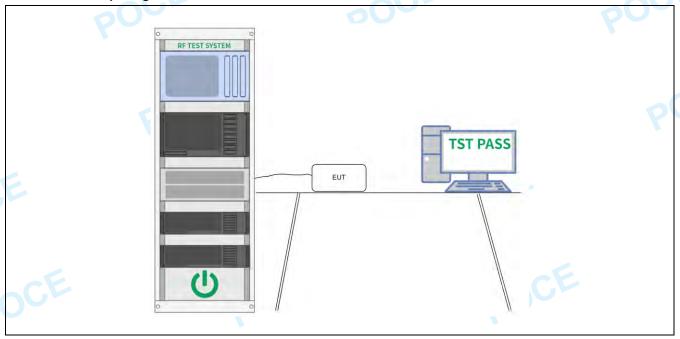
4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report.

4.3.1 E.U.T. Operation:

Operating Enviro	onment:			0	U		000
Temperature:	22.5 °C		Humidity:	50.2 %		Atmospheric Pressure:	102 kPa
Pre test mode:		TM1,	TM2,				
Final test mode:		TM1,	TM2				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

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Report No.: POCE230818307VRW

Note:

Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,..., Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used.

For correlated unequal antenna gain

Directional gain = 10*log[(10G1/20 + 10G2/20 + ... + 10GN/20)2 / NANT] dBi

For completely uncorrelated unequal antenna gain

Directional gain = 10*log[(10G1/10 + 10G2/10 + ... + 10GN/10)/ NANT] dBi

Sample Multiple antennas Calculation: Core 0 + Core 1 +...Core i. = MIMO/CDD

(i is the number of antennas)

(#VALUE! mW + mW) = #VALUE! mW = dBm

Sample e.i.r.p. Calculation:

e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)



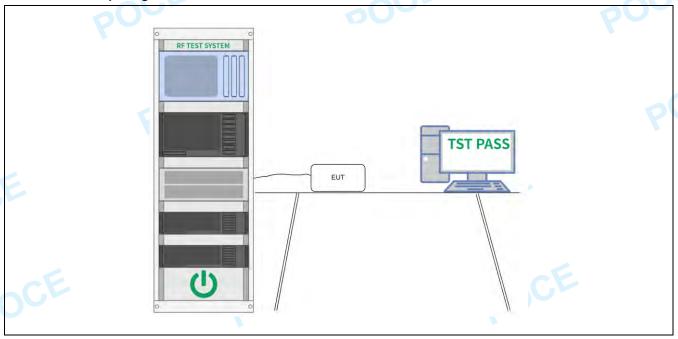
4.4 Channel Separation

- Chamber Sope	
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), 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 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
7	Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

4.4.1 E.U.T. Operation:

Operating Environment:						
Temperature: 22.5 °C			Humidity:	50.2 %	Atmospheric Pressure:	102 kPa
Pre test mode: TM			TM4			
Final test mode: TM3			TM4			

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.



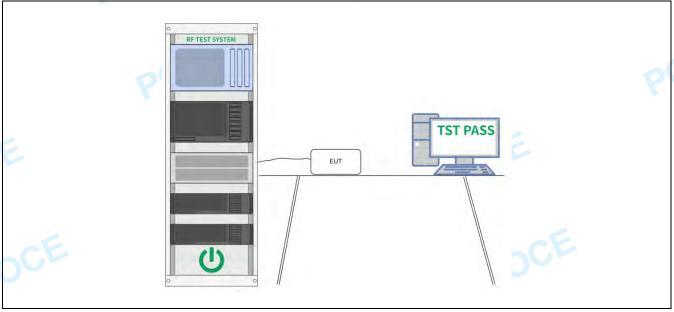
4.5 Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)					
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency 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.					
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02					
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.					
CE	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.					

4.5.1 E.U.T. Operation:

Operating Environment:								
Temperature:	22.5 °C		Humidity:	50.2 %	Atmospheric Pressure:	102 kPa		
Pre test mode:		TM3	TM4					
Final test mode:		TM3	TM4		-00V		400	

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.



4.6 Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	
PO	Refer to 47 CFR 15.247(a)(1)(iii), Fequency 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.
Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
-OCE	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
POCE	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop:
POC	a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate)
P	should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.
OCE	To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.
OCE	The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China

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spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3/0.5 \times 10$, or 60 hops.

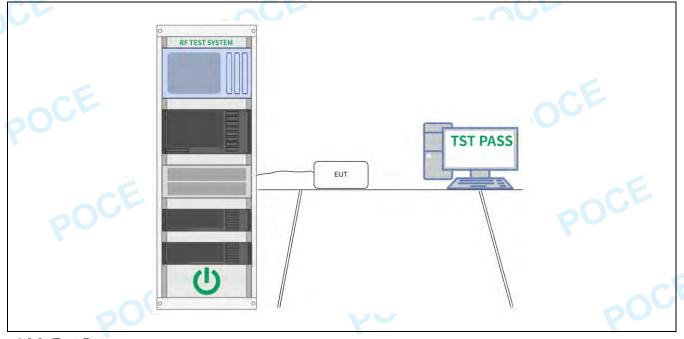
Report No.: POCE230818307VRW

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

4.6.1 E.U.T. Operation:

Operating Environment:						
Temperature: 22.5 °C Humidity: 50.2 % Atmospheric Pressure: 102 kPa						102 kPa
Pre test mode:			TM4			
Final test mode: TM3			TM4			

4.6.2 Test Setup Diagram:



4.6.3 Test Data:

Please Refer to Appendix for Details.

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4.7 Emissions in non-restricted frequency bands

4.7 Emissions in no	on-restricted frequency bands
Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 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.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated bandedges which shall be repeated with hopping enabled.
POCE	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
POC	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.
P	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video
OCE	bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance. 7.8.7.2 Band-edges Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on
OCE	the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels. For measurements with the hopping disabled the analyzer screen shall clearly show

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compliance with the requirement within 10 MHz of the allocated band-edge.

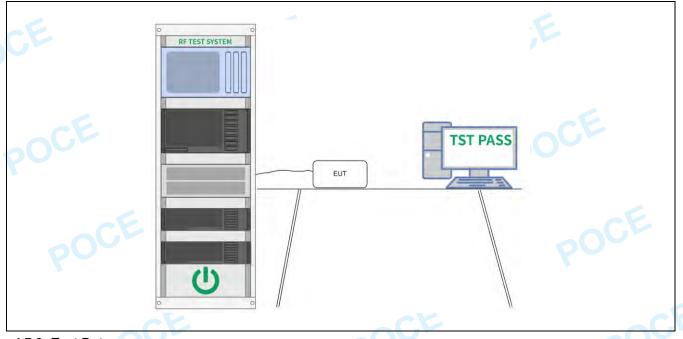
For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated bandedges. This could require separate spectral plots for each band-edge.

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4.7.1 E.U.T. Operation:

Operating Environment:							
Temperature:	Temperature: 22.5 °C Humidity: 50.2 % Atmospheric Pressure: 102 kPa						
Pre test mode: TM1			TM2		a 0		
Final test mode: TM1, TM2							

4.7.2 Test Setup Diagram:



4.7.3 Test Data:

Please Refer to Appendix for Details.

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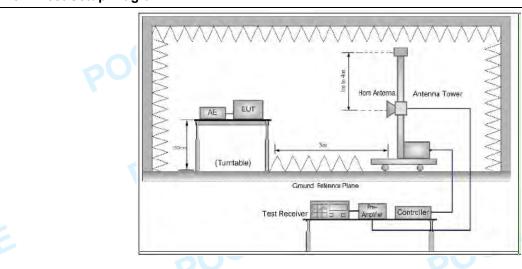
4.8 Band edge emissions (Radiated)

Zana suge emissione (realizates)							
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`						
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
CE	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.						
Test Method:	ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	ANSI C63.10-2020 section	6.10.5.2	000				

4.8.1 E.U.T. Operation:

Operating Environment:						
Temperature:	22.5 °C		Humidity:	50.2 %	Atmospheric Pressure:	102 kPa
Pre test mode:		TM1				OCA
Final test mode:		TM1		00-		PO

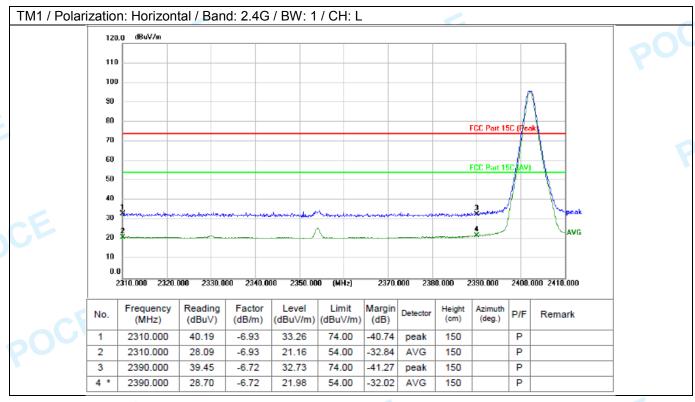
4.8.2 Test Setup Diagram:

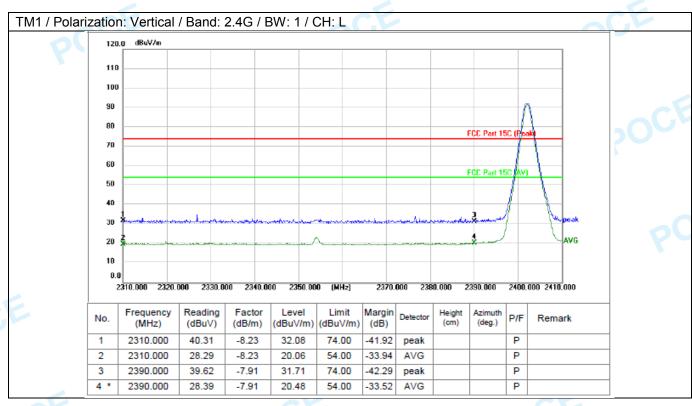


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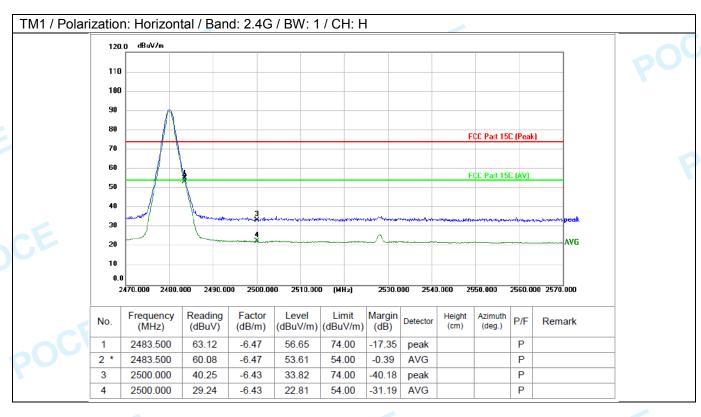


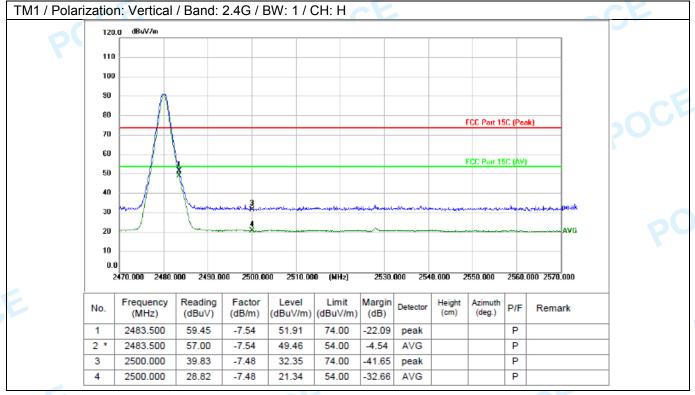
4.8.3 Test Data:











Remark

- 1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 2.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement Correction Factor= Antenna Factor + Cable loss Pre-amplifier

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Note:

Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,..., Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm.

Report No.: POCE230818307VRW

Sample Multiple antennas Calculation: Core 0 + Core 1 +...Core i. = MIMO/CDD (i is the number of antennas)

(#VALUE! mW + XX mW) = #VALUE! mW = XX dBm Sample e.i.r.p. Calculation: XX dBm= Conducted Power (dBm) + Ant gain (dBi)



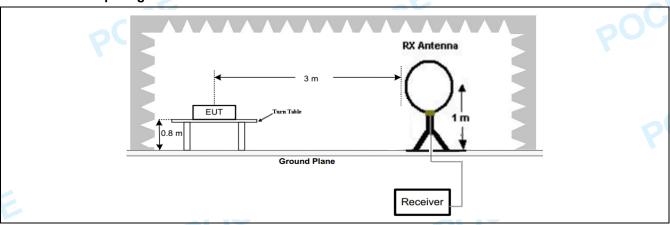
4.9 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`							
Test Limit:	Frequency (MHz) 0.009-0.490	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30							
	1.705-30.0 30 30							
	30-88 100 ** 3							
	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
GL	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g.,							
	§§ 15.231 and 15.241.							
Test Method:	ANSI C63.10-2020 section 6 KDB 558074 D01 15.247 Me		BOCK					
Procedure:	ANSI C63.10-2020 section 6	6.6.4						

4.9.1 E.U.T. Operation:

Operating Environment:						
Temperature: 22.5 °C		Humidity:	50.2 %	Atmospheric Pressure:	102 kPa	
Pre test mode:	TM1		DO.		DO	
Final test mode:	TM1					

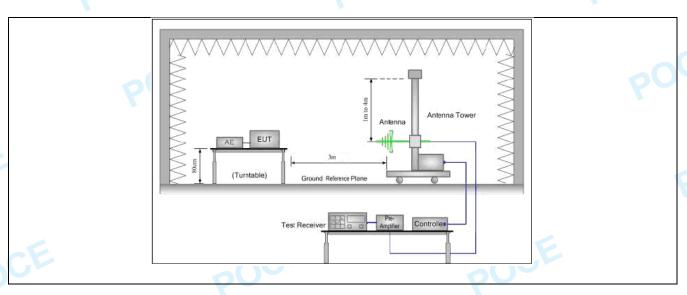
4.9.2 Test Setup Diagram:



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4.9.3 Test Data:

Between 9KHz - 30MHz

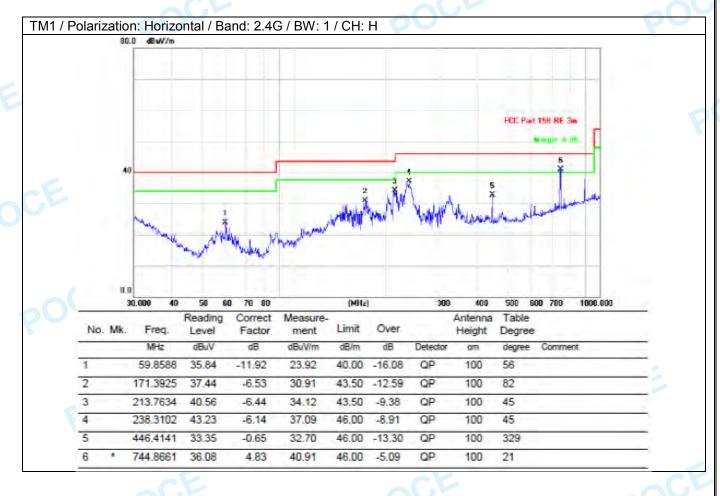
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



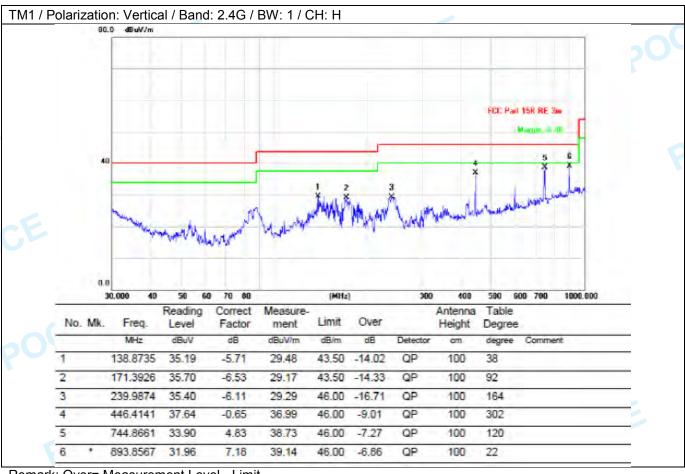
Report No.: POCE230818307VRW

Test results only record the worst mode or channel

Between 30MHz – 1000MHz







Report No.: POCE230818307VRW

Remark: Over= Measurement Level - Limit

Measurement Level=Test receiver reading + correction factor Correction Factor= Antenna Factor + Cable loss - Pre-amplifier



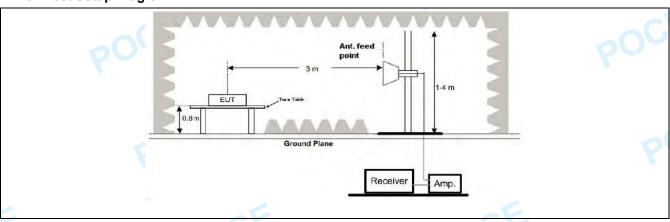
4.10 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`					
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)	300			
	0.490-1.705	24000/F(kHz)	30			
1	1.705-30.0	30	30			
	30-88	100 **	3			
	88-216	150 **	3			
	216-960	200 **	3			
	Above 960	500	3			
GL	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g.,					
	§§ 15.231 and 15.241.					
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02					
Procedure:	ANSI C63.10-2020 section 6	5.6.4	<u> </u>			

4.10.1 E.U.T. Operation:

Operating Environment:							
Temperature: 22.5 °C		Humidity:	50.2 %	Atmospheric Pressure:	102 kPa		
Pre test mode:	TM1		00		PU		
Final test mode:	TM1						

4.10.2Test Setup Diagram:

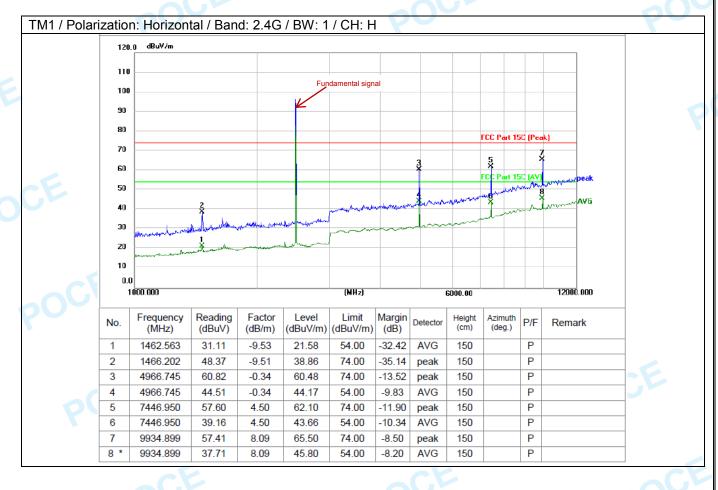


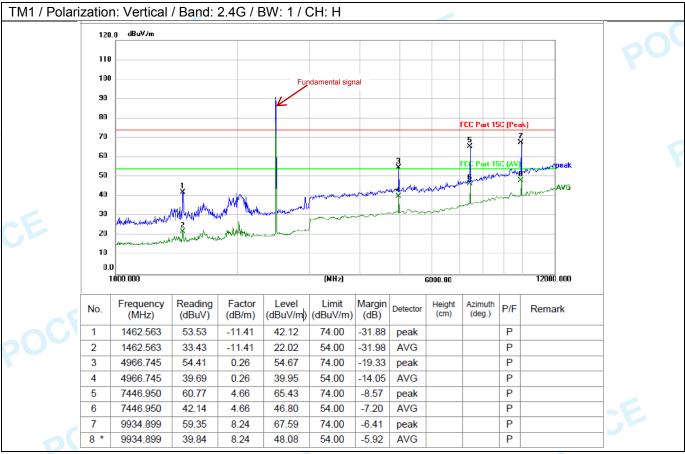
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4.10.3 Test Data:

Test results only record the worst mode or channel, The test data from 12GHz to 25GHz only includes the background waveform, so it is not recorded in the report.





Remark: Margin = Limit - Level

Correction Factor = Antenna Factor + Cable loss - Pre-amplifier

Level=Test receiver reading + correction factor

Note:

Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,..., Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm.

Sample Multiple antennas Calculation: Core 0 + Core 1 +...Core i. = MIMO/CDD (i is the number of antennas)

(#VALUE! mW + XX mW) = #VALUE! mW = XX dBm

Sample e.i.r.p. Calculation:

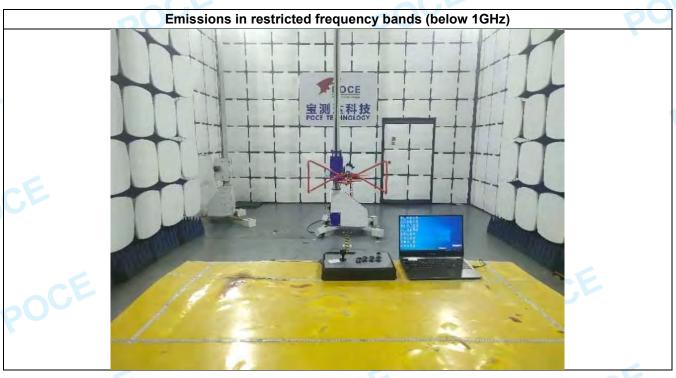
XX dBm= Conducted Power (dBm) + Ant gain (dBi)

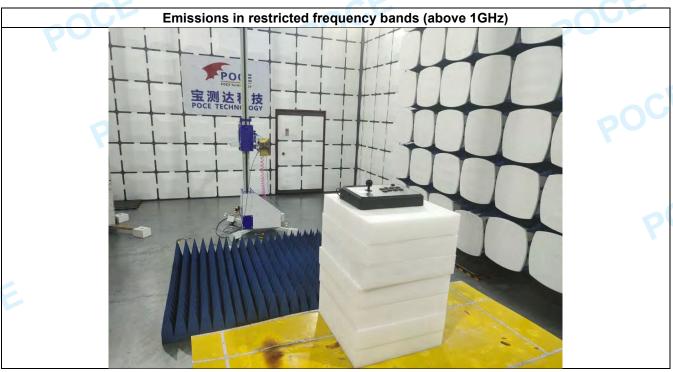
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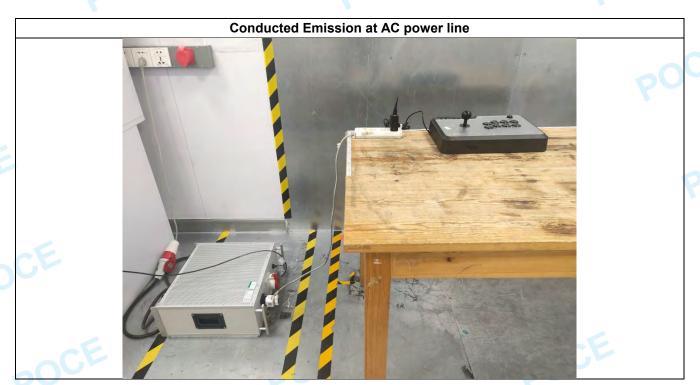
5 TEST SETUP PHOTOS





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6 PHOTOS OF THE EUT





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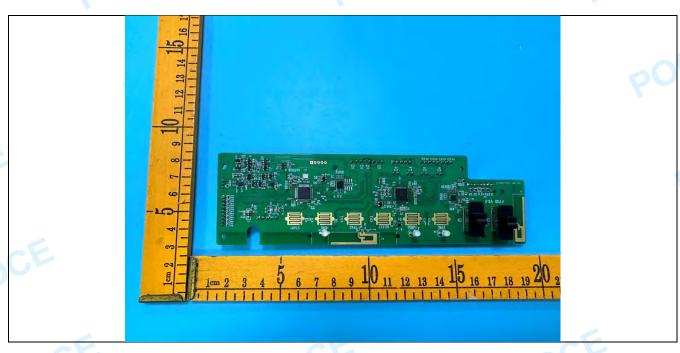






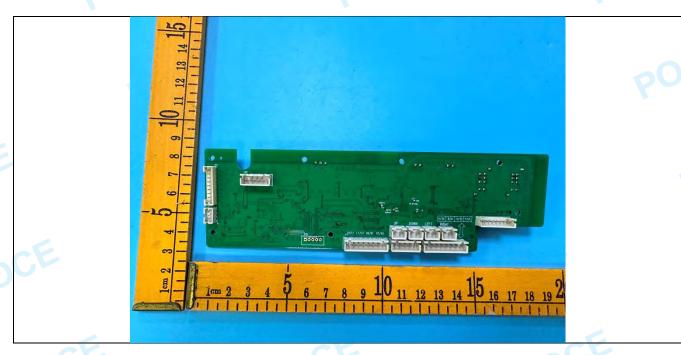


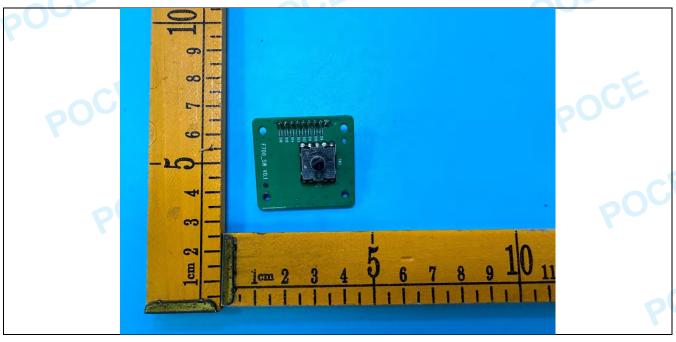






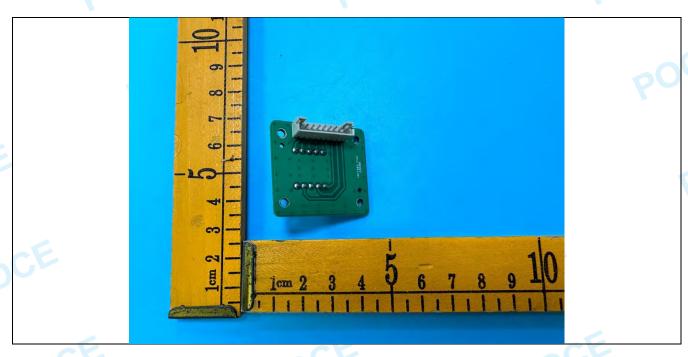


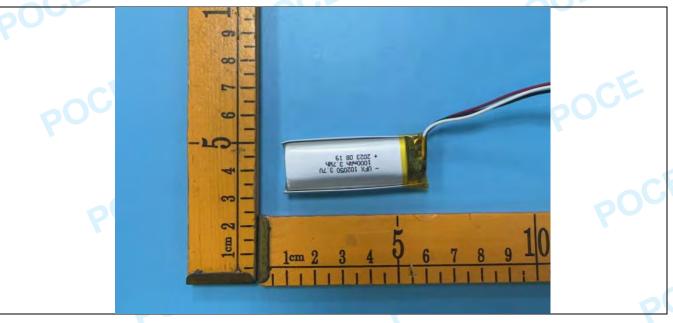












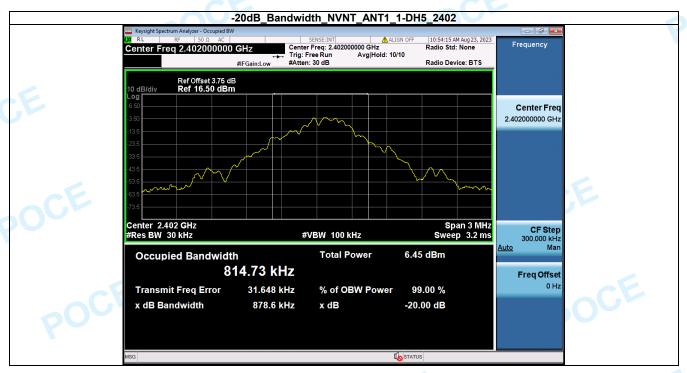


Appendix



1. -20dB Bandwidth

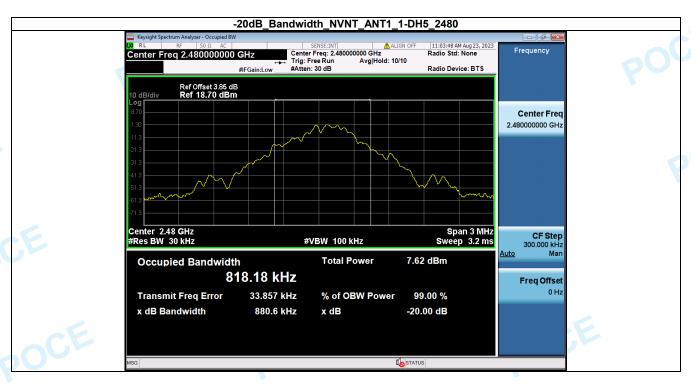
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.879
NVNT	ANT1	1-DH5	2441.00	0.882
NVNT	ANT1	1-DH5	2480.00	0.881
NVNT	ANT1	2-DH5	2402.00	1.350
NVNT	ANT1	2-DH5	2441.00	1.350
NVNT	ANT1	2-DH5	2480.00	1.344





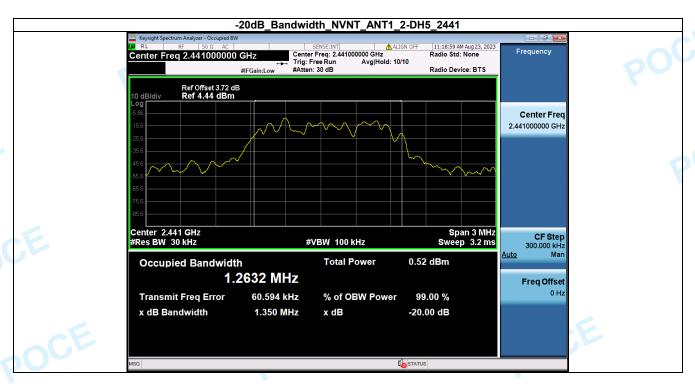
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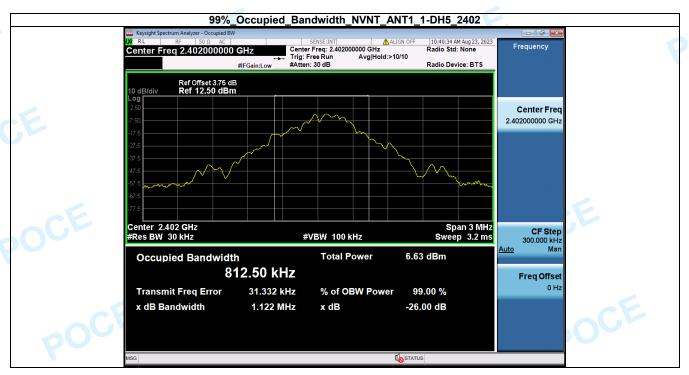






2. 99% Occupied Bandwidth

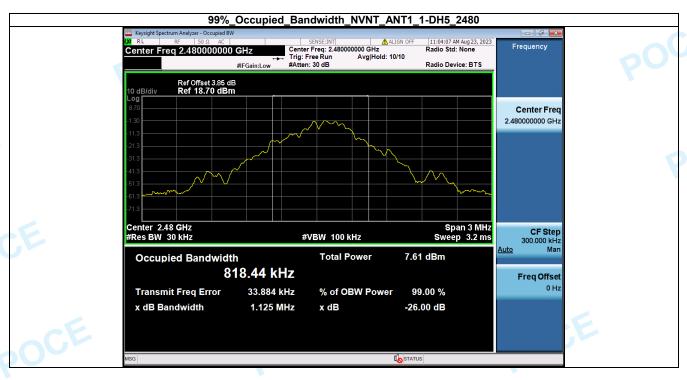
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.813
NVNT	ANT1	1-DH5	2441.00	0.816
NVNT	ANT1	1-DH5	2480.00	0.818
NVNT	ANT1	2-DH5 \	2402.00	1.265
NVNT	ANT1	2-DH5	2441.00	1.263
NVNT	ANT1	2-DH5	2480.00	1.248





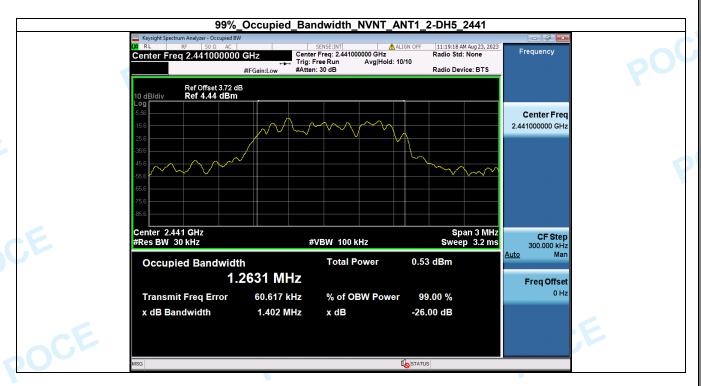
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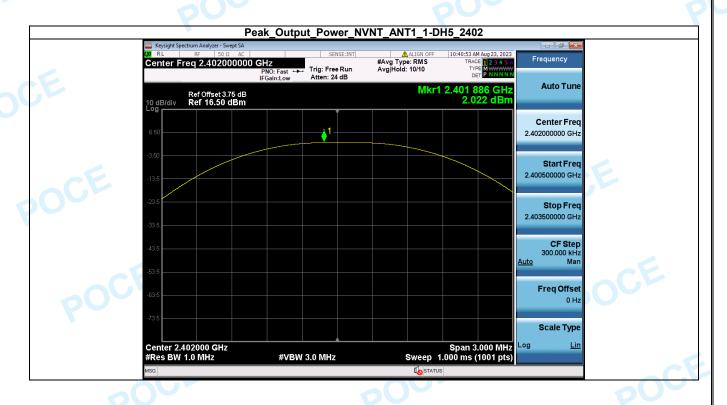


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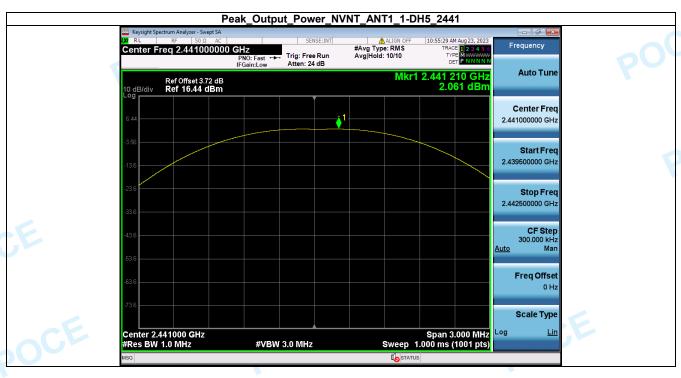


3. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit (mW)	Result
NVNT	ANT1	1-DH5	2402.00	2.02	1.592	1000	Pass
NVNT	ANT1	1-DH5	2441.00	2.06	1.607	1000	Pass
NVNT	ANT1	1-DH5	2480.00	2.89	1.945	1000	Pass
NVNT	ANT1	2-DH5	2402.00	-0.56	0.879	1000	Pass
NVNT	ANT1	2-DH5	2441.00	-0.28	0.938	1000	Pass
NVNT	ANT1	2-DH5	2480.00	0.69	1.172	1000	Pass



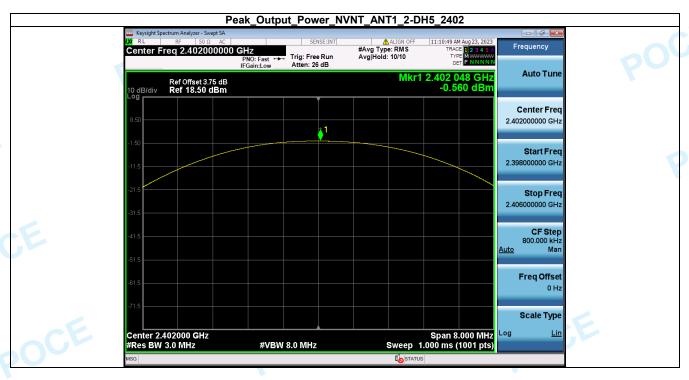








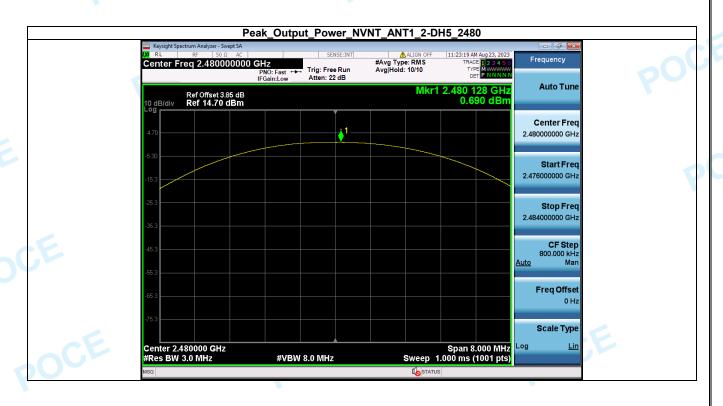








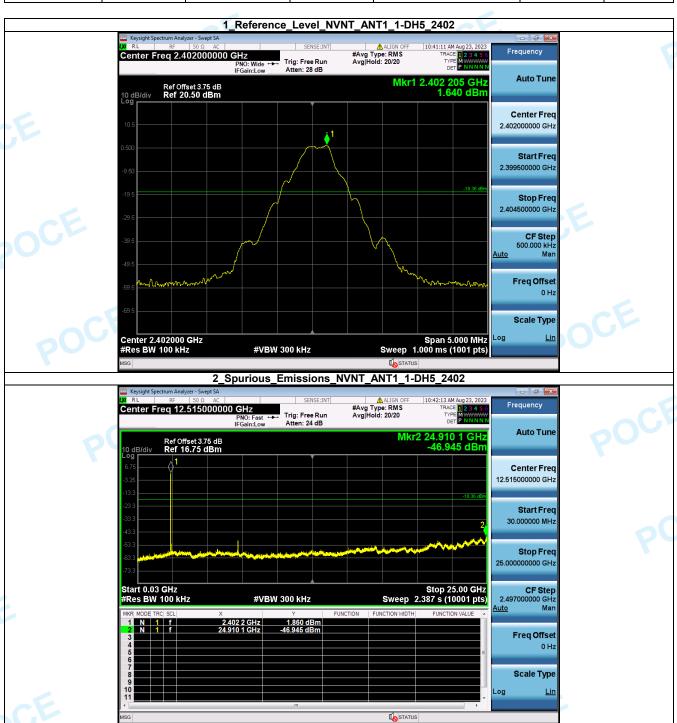


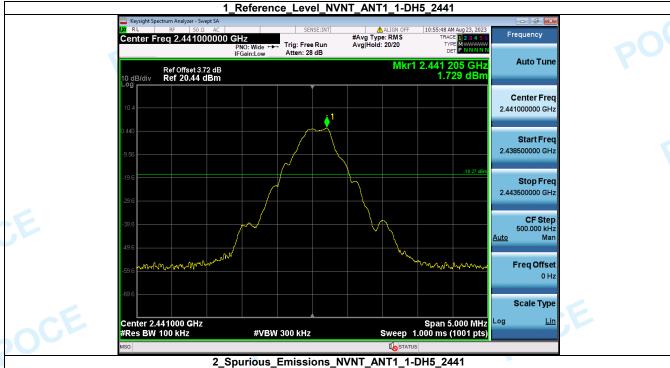


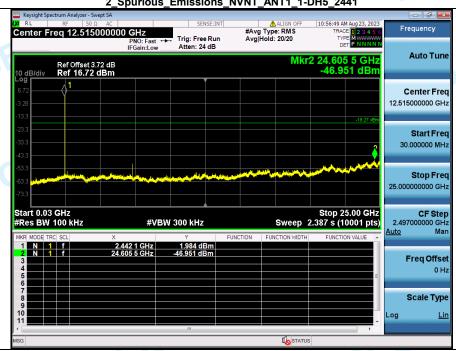


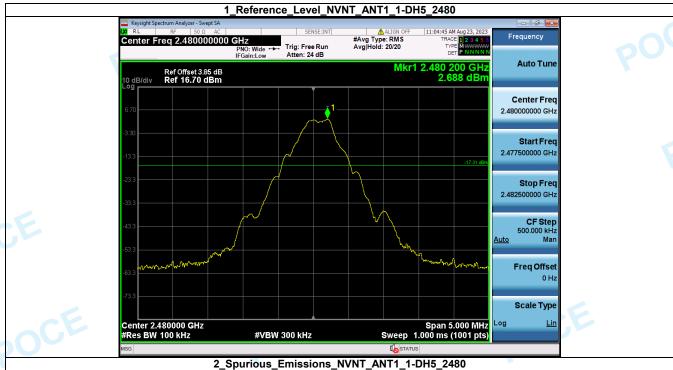
4. Spurious Emissions

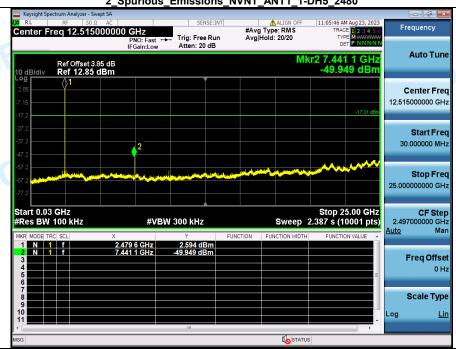
Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-46.945	-18.360	Pass
NVNT	ANT1	1-DH5	2441.00	-46.951	-18.271	Pass
NVNT	ANT1	1-DH5	2480.00	-49.949	-17.312	Pass
NVNT	ANT1	2-DH5	2402.00	-56.999	-26.182	Pass
NVNT	ANT1	2-DH5	2441.00	-55.604	-26.031	Pass
NVNT	ANT1	2-DH5	2480.00	-53.764	-25.013	Pass



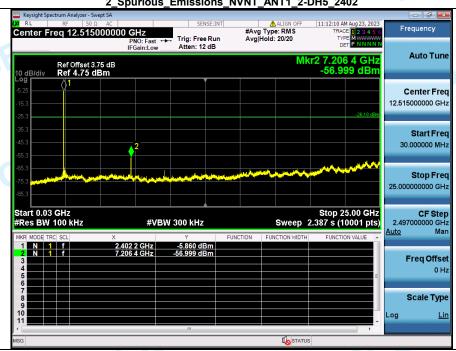




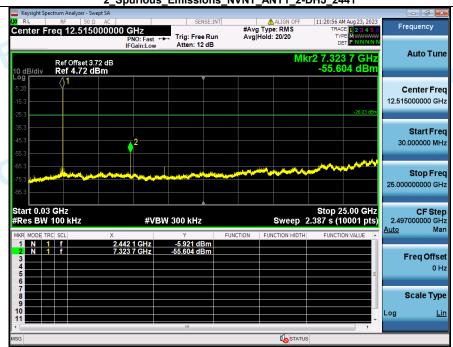






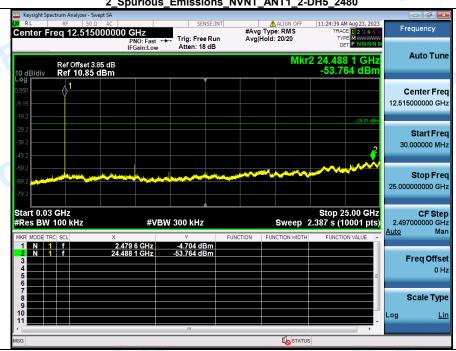








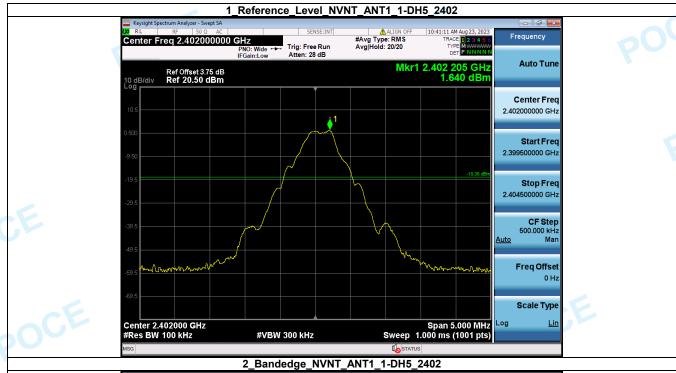


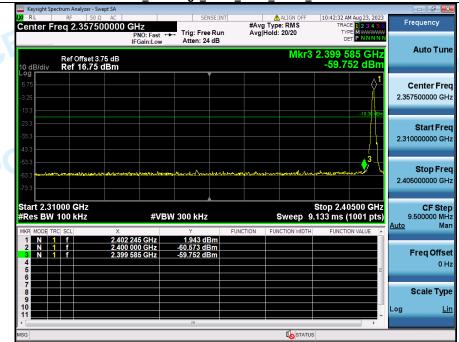




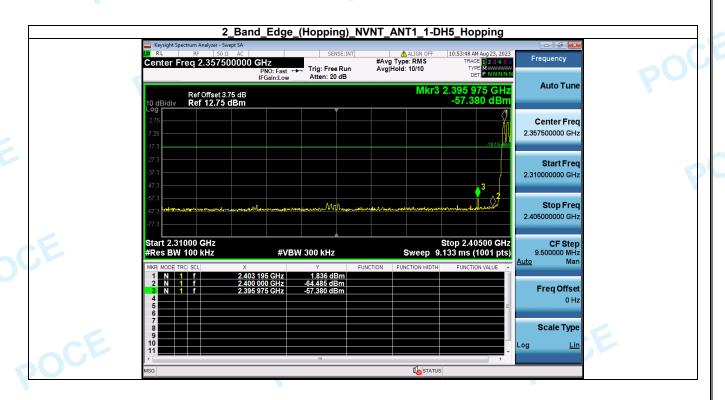


5. Bandedge

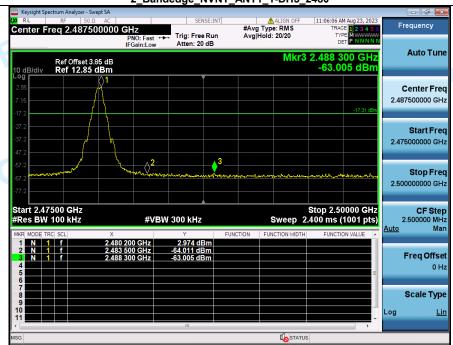


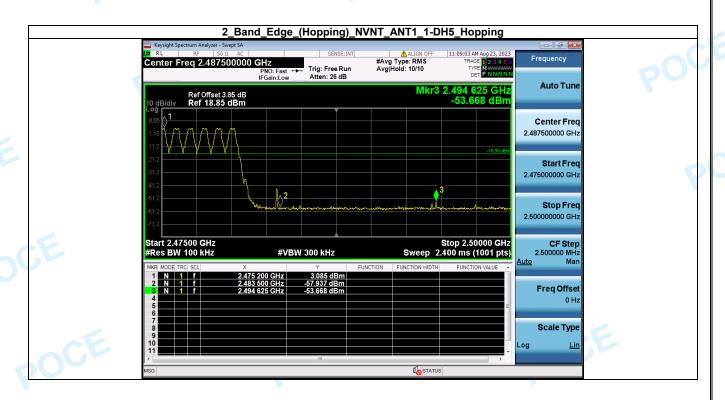


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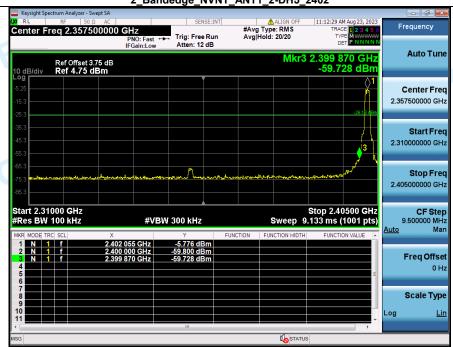


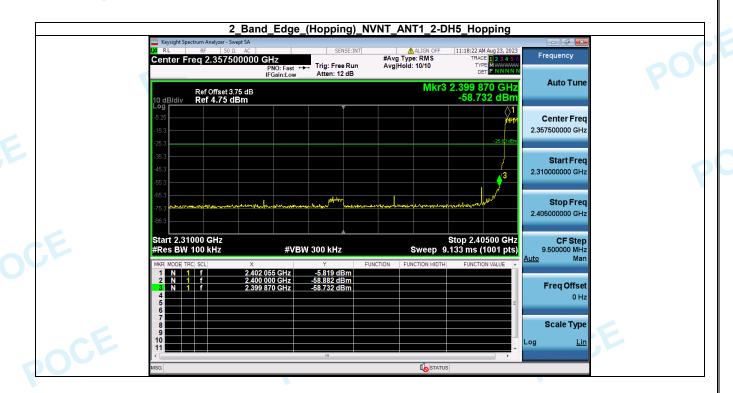








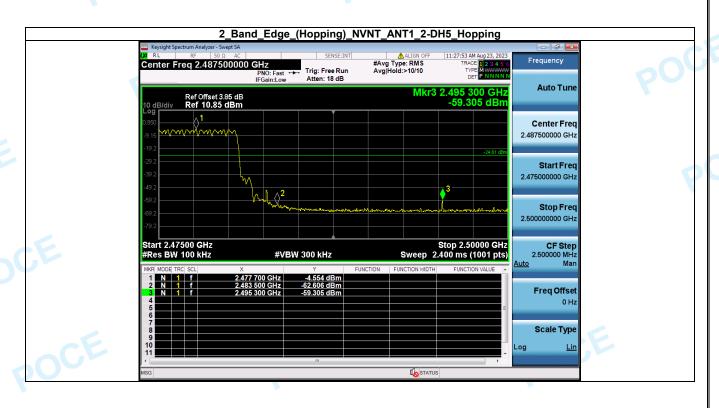








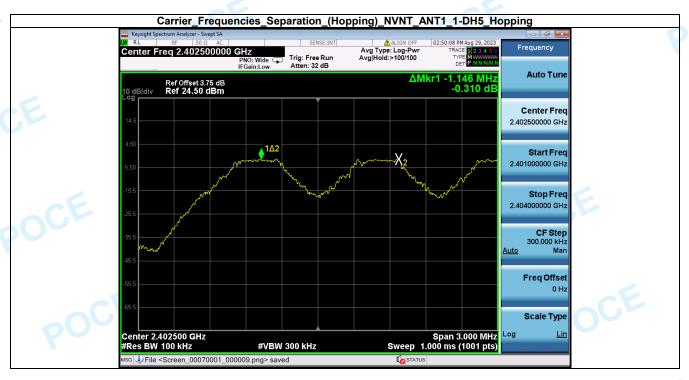




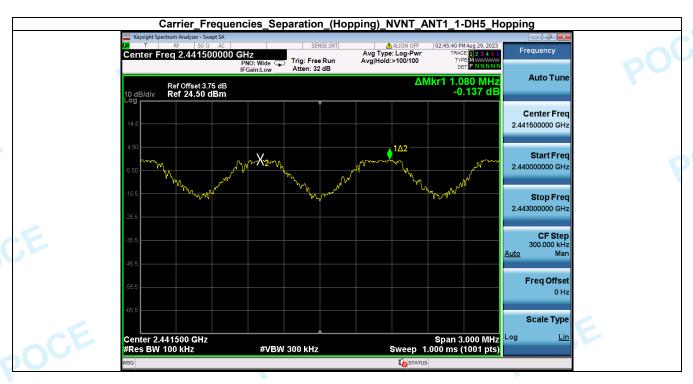


6. Carrier Frequencies Separation (Hopping)

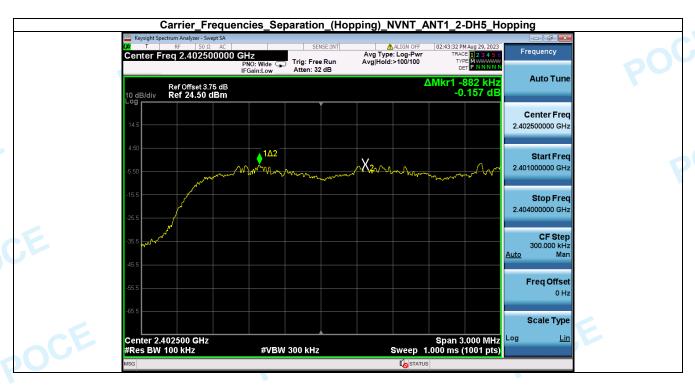
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2402.00	2402.200	2403.196	1.146	0.664	Pass
NVNT	ANT1	1-DH5	2441.00	2441.200	2442.199	1.080	0.666	Pass
NVNT	ANT1	1-DH5	2480.00	2479.203	2480.202	1.146	0.666	Pass
NVNT	ANT1	2-DH5	2402.00	2401.690	2402.689	0.882	0.666	Pass
NVNT	ANT1	2-DH5	2441.00	2440.693	2441.692	1.125	0.666	Pass
NVNT	ANT1	2-DH5	2480.00	2478.690	2479.695	1.317	0.670	Pass

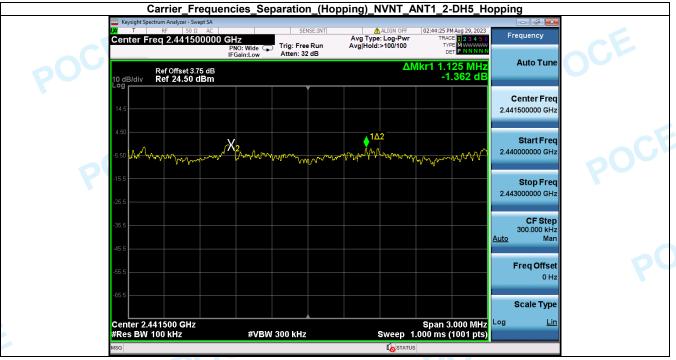












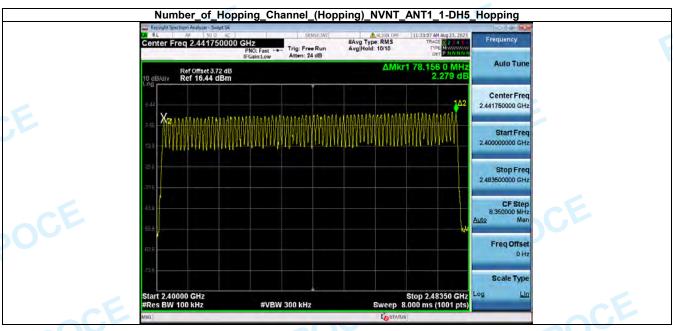


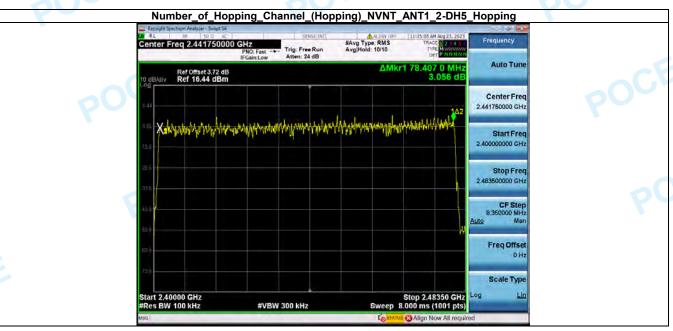




7. Number of Hopping Channel (Hopping)

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass



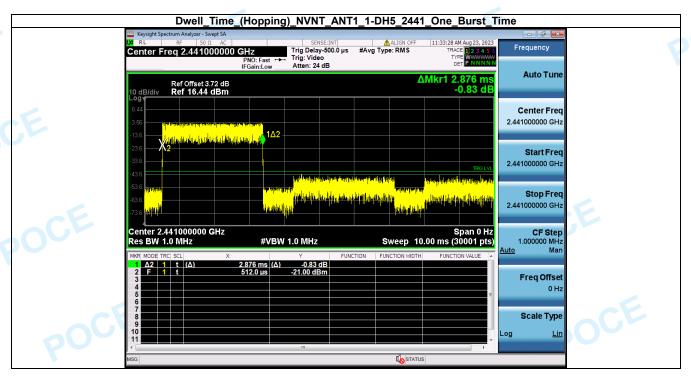


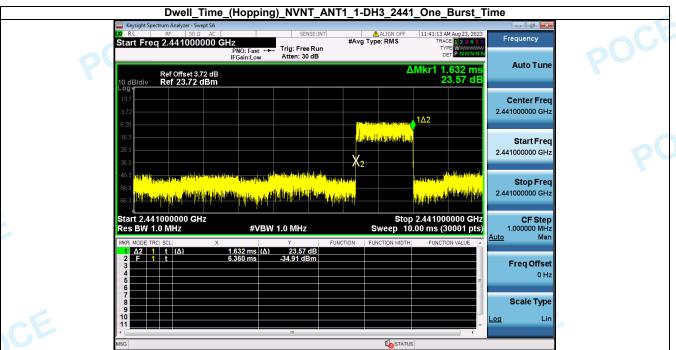
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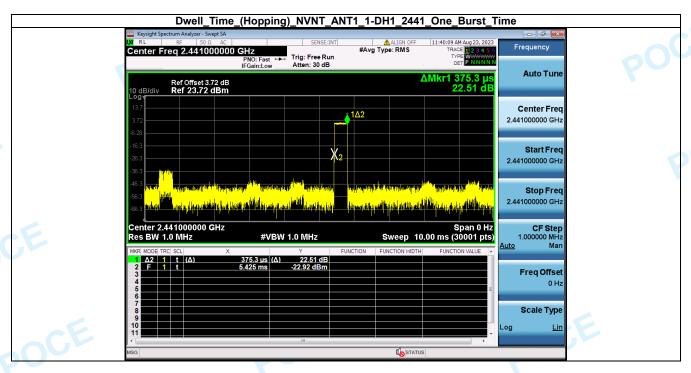
8. Dwell Time (Hopping)

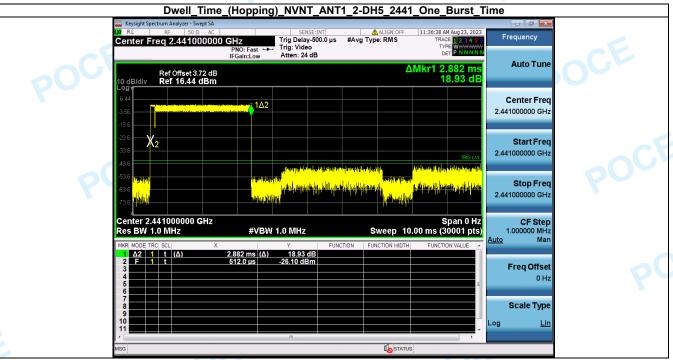
Condition	Antenna	Packet Type	Pulse Time(ms)	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.876	281.848	0.40	Pass
NVNT	ANT1	1-DH3	1.632	261.120	0.40	Pass
NVNT	ANT1	1-DH1	0.3753	120.096	0.40	Pass
NVNT	ANT1	2-DH5	2.882	288.200	0.40	Pass
NVNT	ANT1	2-DH3	1.642	62.352	0.40	Pass
NVNT	ANT1	2-DH1	0.3897	124.704	0.40	Pass



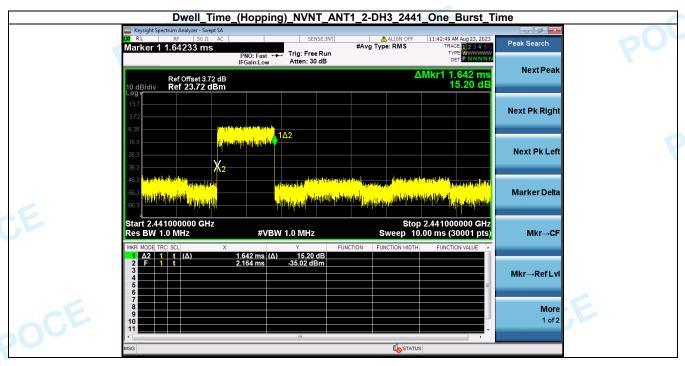


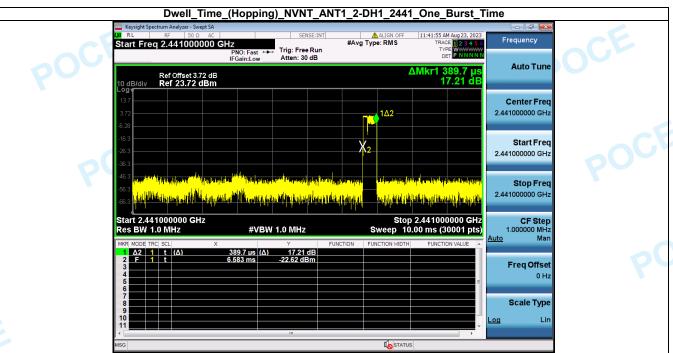
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