

RF TEST REPORT

For

Mobile Price Card Inc.

Product Name: Ally Screen device

Test Model(s).: ALW-R03-23

Report Reference No. : POCE231031013RL002

FCC ID : 2BDVQ-ALW-R03-23

Applicant's Name : Mobile Price Card Inc.

Address : 23 Water Street, Suite 205, Bangor, ME 04401,USA

Testing Laboratory: Shenzhen POCE Technology Co., Ltd.

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

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

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : October 31, 2023

Date of Test : October 31, 2023 to December 13, 2023

Data of Issue : December 13, 2023

Result : Pass

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V1.0

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE231031013RL002	December 13, 2023
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N			-1	10

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:
Sen Tang	Tom chen	Machael MJ
Ben Tang /Test Engineer	Tom Chen / Project Engineer	Machael Mo / Manager



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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	Method	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	ANSI C63.10-2013 section 6.2	-CE '	Pass
Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.215(c)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Mobile Price Card Inc.

Address : 23 Water Street, Suite 205, Bangor, ME 04401, USA

Manufacturer : Shenzhen Jren Technology CO., Ltd

Address : B Area, 9/F, A4 Building, No. 35 Tianrui Industrial Park, Fuyuan 1st Road

Zhancheng community, Fuhai street, Baoan District, Shenzhen, China

2.2 Description of Device (EUT)

Product Name:	Ally Screen device	a F
Model/Type reference:	ALW-R03-23	
Series Model:	N/A	90
Trade Mark:	N/A	
Power Supply:	DC 5V/2A from adapter	
Operation Frequency:	2402MHz to 2480MHz	CE
Number of Channels:	79	2000
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK	Po
Antenna Type:	Internal Antenna	
Antenna Gain:	1dBi	
Hardware Version:	V1.0	CE
Software Version:	V1.0	2000

(Remark:The Antenna Gain is supplied by the customer.POCE is not responsible for This data and the related calculations associated with it)

	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	
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 chamiler	BDR/EDR
Lowest channel	2402MHz
Middle channel	2441MHz
Highest channel	2480MHz

2.3 Description of Test Modes

No	Title	Description
TM1	TX-GFSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	TX-Pi/4DQPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation.
TM3	TX-8DPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
Remar	k:Only the data of the worst	mode would be recorded in this report.

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
AC-DC adapter	HUAWEI TECHNOLOGY	HW100400C01	aG

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2.5 Equipments Used During The Test

Conducted Emission at AC power line							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
loop antenna	EVERFINE	LLA-2	80900L-C	2023-02-27	2024-02-26		
Power absorbing	SCHWARZ	MESS-	1	2023-02-28	2024-02-27		
clamp	BECK	ELEKTRONIK	/	2023-02-20	2024-02-21		
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	1	1		
Cable	SCHWARZ BECK	1	POO	2023-12-27	2024-12-26		
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Ateennator	561-G071	2023-02-27	2024-02-26		
50ΩCoaxial Switch	Anritsu	MP59B	M20531		/		
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K 03-102109- MH	2023-06-13	2024-06-12		
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-28	2024-12-27		

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	TACHOY	RTS-01	V2.0.0.0	1	1
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	/	1
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
DC power	HP	66311B	38444359	/	
RF Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2	000001	1	1
Wideband radio communication tester	R&S	CMW500	113410	2023-06-13	2024-06-12
Vector signal generator	Keysight	N5181A	MY48180415	2023-11-09	2024-11-08
Signal generator	Keysight	N5182A	MY50143455	2023-12-28	2024-12-27
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-28	2024-12-27



Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)

Emissions in requercy bands (above 10112)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	1
Positioning Controller	1	MF-7802	1	/	/
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	1
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021-07-05	2024-07-04
Cable(LF)#2	Schwarzbeck	1	1	2023-02-27	2024-02-26
Cable(LF)#1	Schwarzbeck	1	1	2023-02-27	2024-02-26
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2023-02-28	2024-02-27
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	1	2023-02-27	2024-02-26
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2023-06-13	2024-06-12
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2023-06-13	2024-06-12
Wideband radio communication tester	R&S	CMW500	113410	2023-06-13	2024-06-12
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2023-06-14	2024-06-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20
Test Receiver	R&S	ESCI	102109	2023-06-13	2024-06-12



2.6 Statement Of The Measurement Uncertainty

Measurement Uncertainty	
±3.63%	20
±0.733dB	P
±0.234%	
±1.98dB	
±5.46dB	
±5.79dB	
_	±3.63% ±0.733dB ±0.234% ±1.98dB ±5.46dB

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

2.7 Authorizations

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) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

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3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 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. 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:



ANT

4 Radio Spectrum Matter Test Results (RF)

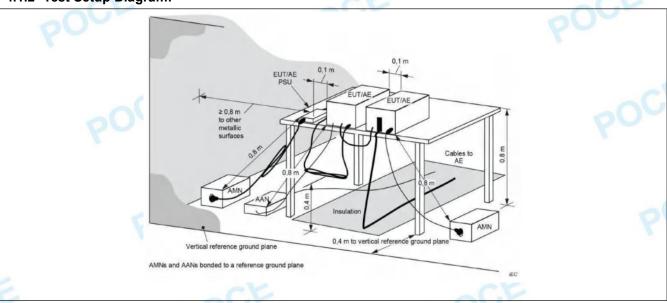
4.1 Conducted Emission at AC power line

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 (dB Quasi-peak	BµV) Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46	.		
	5-30	60	50	.		
CE	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2013 section 6.2					
Procedure:	Refer to ANSI C63.10-2013 section conducted emissions from unlicens		thod for ac power-line			

4.1.1 E.U.T. Operation:

Operating Envir	onment:			00		000
Temperature:	23.6 °C		Humidity:	55.7 %	Atmospheric Pressure:	101 kPa
Pre test mode:		TM1			·	
Final test mode:		TM1				

4.1.2 Test Setup Diagram:

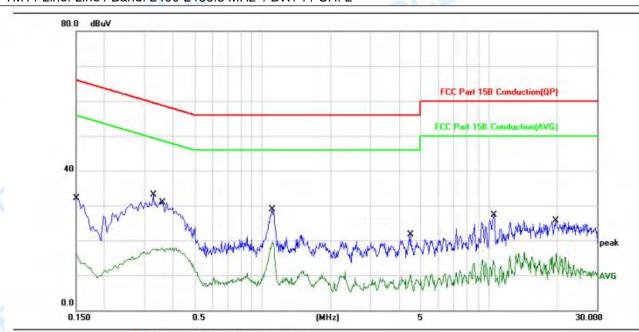


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4.1.3 Test Data:

TM1 is worse case and only reported





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1500	22.08	10.05	32.13	65.99	-33.86	QP		
2		0.1500	6.32	10.05	16.37	55.99	-39.62	AVG		
3		0.3300	23.02	10.01	33.03	59.45	-26.42	QP		
4		0.3580	7.84	10.01	17.85	48.77	-30.92	AVG		
5		1.1019	18.90	9.90	28.80	56.00	-27.20	QP		
6	*	1.1100	9.75	9.90	19.65	46.00	-26.35	AVG		
7		4.5140	11.55	10.11	21.66	56.00	-34.34	QP		
8		4.5140	0.13	10.11	10.24	46.00	-35.76	AVG		
9		10.4620	4.15	10.42	14.57	50.00	-35.43	AVG		
10		10.5300	16.86	10.43	27.29	60.00	-32.71	QP		
11		19.8100	15.31	10.46	25.77	60.00	-34.23	QP		
12		19.8100	5.86	10.46	16.32	50.00	-33.68	AVG		



12

27.6780

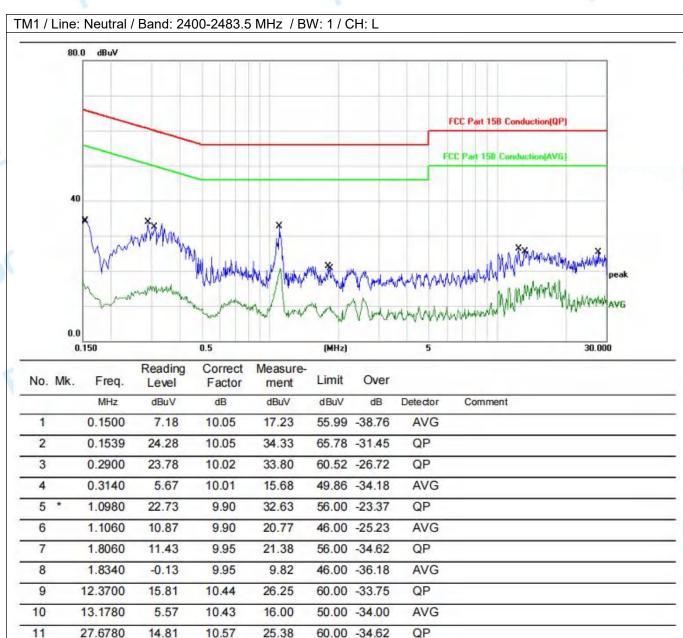
2.28

10.57

12.85

50.00 -37.15

AVG





4.2 Occupied Bandwidth

4.2 Occupied Bandy	viatn
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 C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the procedure in 6.9.2.
	KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five 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 video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
POCE	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 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified
CE	tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
PO	f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference
POC	value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
	i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
P	j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible to
E	this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading
OCE	at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing 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:

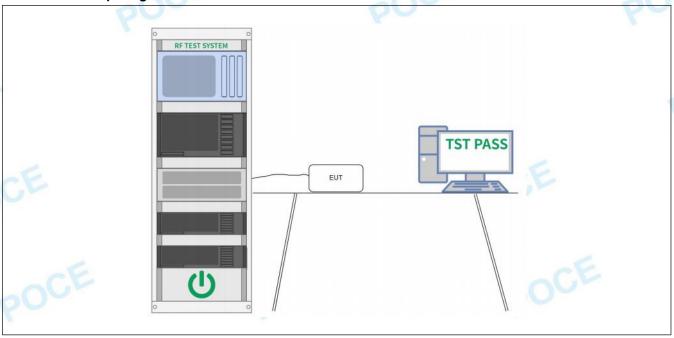
Operating Envir	onment:				
Temperature:	23.6 °C	Humidity:	55.7 %	Atmospheric Pressure:	101 kPa

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Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

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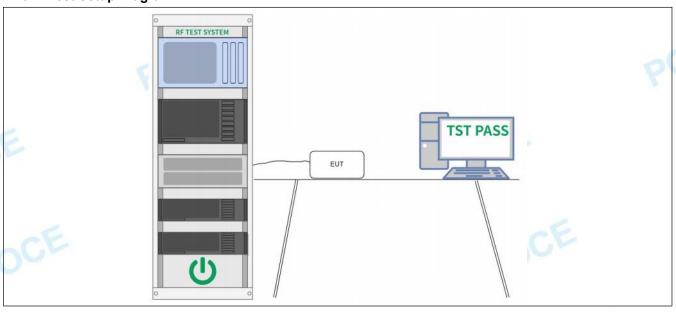
4.3 Maximum Conducted Output Power

	doted output I ower
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 C63.10-2013, 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. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto.
POCE	 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

4.3.1 E.U.T. Operation:

Operating Envir	onment:						
Temperature:	23.6 °C		Humidity:	55.7 %	Atmospheric Pressure:	101 kPa	
Pre test mode:	aC	TM1,	TM2, TM3		OCF		-00
Final test mode:		TM1,	TM2, TM3	10			00

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

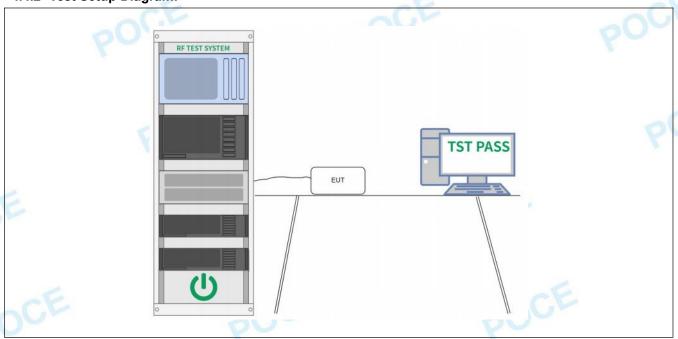
4.4 Channel Separation

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 C63.10-2013, 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: Auto. e) Detector function: Peak. f) Trace: Max hold.
POCE	g) Allow the trace to stabilize. 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 plot of the data shall be included in the test report.

4.4.1 E.U.T. Operation:

Operating Environment:		-C	E	OCE
Temperature: 23.6 °C	Humidity:	55.7 %	Atmospheric Pressure:	101 kPa
Pre test mode:	TM4, TM5, TM6	1		
Final test mode:	TM4, TM5, TM6			

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

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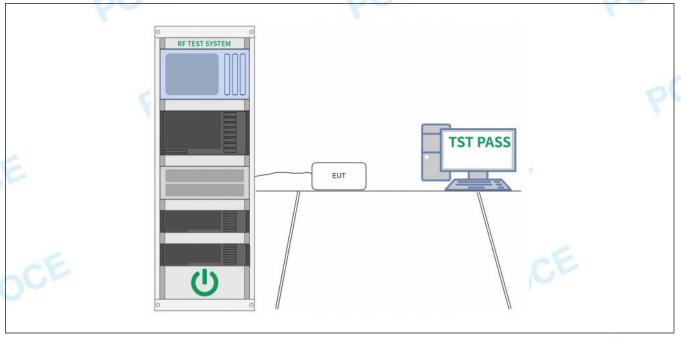
4.5 Number of Hopping Frequencies

4.5 Number of Hopp	mig i requencies
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 C63.10-2013, 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 may 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: Auto.
POCE	e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. 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 plot of the data shall be included in the test report.

4.5.1 E.U.T. Operation:

Operating Envir	onment:			Po		Po
Temperature:	23.6 °C		Humidity:	55.7 %	Atmospheric Pressure:	101 kPa
Pre test mode:		TM4,	TM5, TM6			
Final test mode:		TM4,	TM5, TM6		aF.	

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.



4.6 Dwell Time

4.0 Dwell Tille	
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 C63.10-2013, section 7.8.4 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: 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 dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of
POC	hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation. The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

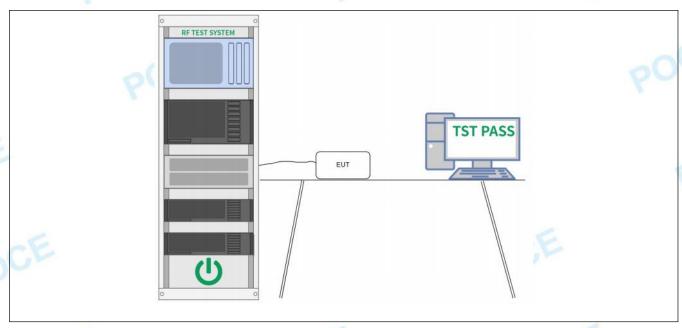
4.6.1 E.U.T. Operation:

Operating Enviro	onment:		ac.E		OCE	
Temperature:	23.6 °C		Humidity:	55.7 %	Atmospheric Pressure:	101 kPa
Pre test mode:		TM4,	TM5, TM6			
Final test mode:		TM4,	TM5, TM6			

4.6.2 Test Setup Diagram:

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4.6.3 Test Data:

Please Refer to Appendix for Details.

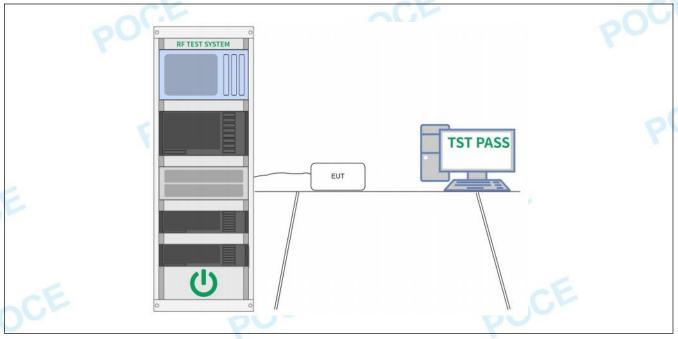
4.7 Emissions in non-restricted frequency bands

	Transport of the control of the cont
Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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 C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. 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 instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

4.7.1 E.U.T. Operation:

Operating Environment:		~C.		OCE
Temperature: 23.6 °C	Humidity:	55.7 %	Atmospheric Pressure:	101 kPa
Pre test mode:	TM1, TM2, TM3, TM	и4, ТМ5, ТМ6		
Final test mode:	TM1, TM2, TM3, TM	и4, ТМ5, ТМ6		

4.7.2 Test Setup Diagram:



4.7.3 Test Data:

Please Refer to Appendix for Details.

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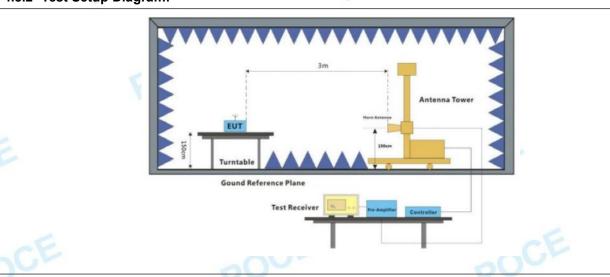
4.8 Band edge emissions (Radiated)

<u>-</u>	· · · · · · · · · · · · · · · · · · ·		
Test Requirement:	restricted bands, as define	, In addition, radiated emissions wid in § 15.205(a), must also comply § 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
	radiators operating under t 54-72 MHz, 76-88 MHz, 17 these frequency bands is p and 15.241.	aragraph (g), fundamental emission his section shall not be located in to 74-216 MHz or 470-806 MHz. Howevermitted under other sections of the section of th	he frequency bands ever, operation within is part, e.g., §§ 15.231
POCE	The emission limits shown employing a CISPR quasi- 110–490 kHz and above 1	e, the tighter limit applies at the bar in the above table are based on m peak detector except for the freque 000 MHz. Radiated emission limits ats employing an average detector.	easurements ency bands 9–90 kHz, in these three bands
Test Method:	ANSI C63.10-2013 section KDB 558074 D01 15.247 N		a E
Procedure:	ANSI C63.10-2013 section	6.10.5.2	2000

4.8.1 E.U.T. Operation:

Operating Envir	onment:						
Temperature:	23.6 °C		Humidity:	55.7 %	Atmospheric Pressure:	101 kPa	
Pre test mode:		TM1,	TM2, TM3		CE		-C
Final test mode:	0	TM1		<	200		000

4.8.2 Test Setup Diagram:

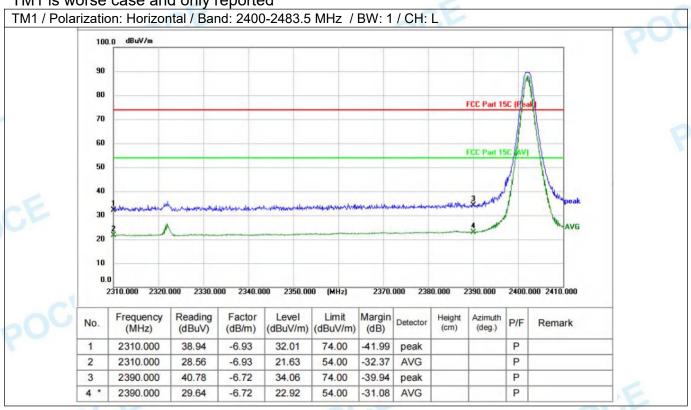


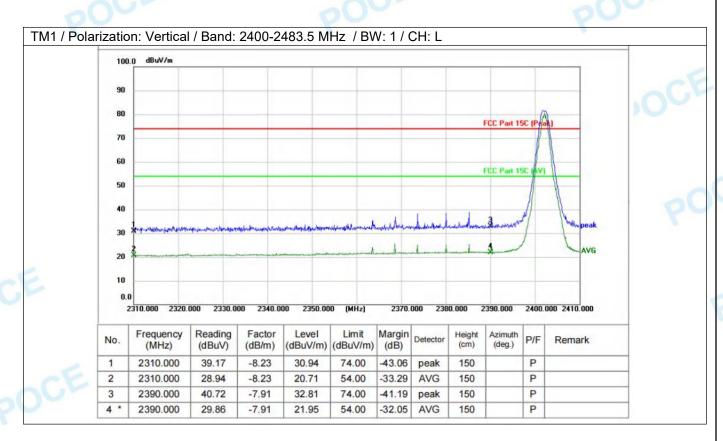
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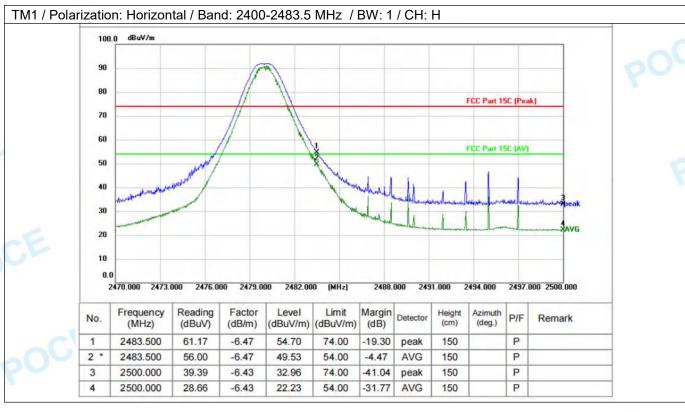


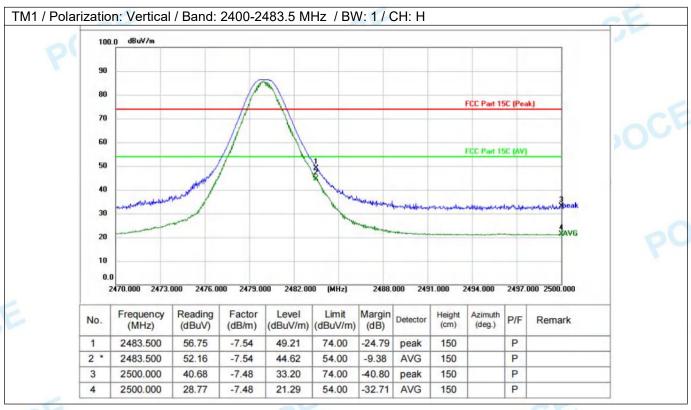
4.8.3 Test Data:

TM1 is worse case and only reported









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

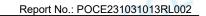
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4.9 Emissions in frequency bands (below 1GHz)

Test Requirement:	Pofor to 47 CED 15 24	7(d) In addition, radiated emission	se which fall in the
		F7(d), In addition, radiated emission fined in § 15.205(a), must also con	
20		ed in § 15.209(a)(see § 15.205(c)).	
Test Limit:	Frequency (MHz)	Field strength	Measurement
root Emma	Troqueriey (WH12)	(microvolts/meter)	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
		in paragraph (g), fundamental emis	
		der this section shall not be located	
		z, 174-216 MHz or 470-806 MHz. I	
	and 15.241.	s is permitted under other sections	or this part, e.g., 99 15.231
		have the tighter limit applies at the	hand addag
		bove, the tighter limit applies at the own in the above table are based or	
		lasi-peak detector except for the fr	
		ve 1000 MHz. Radiated emission li	
		ements employing an average dete	
T. A. M. Alexander		. , , ,	Ctor.
Test Method:	ANSI C63.10-2013 sed		
	KDB 558074 D01 15.2	47 Meas Guidance v05r02	
Procedure:	a. For below 1GHz. the	e EUT was placed on the top of a r	otating table 0.8 meters
		3 or 10 meter semi-anechoic chan	
		ine the position of the highest radi	
		e EUT was placed on the top of a	
		3 meter fully-anechoic chamber. T	
		the position of the highest radiation	
		or 10 meters away from the interfe	
	l .	the top of a variable-height anten	
		n the top of a variable-height anten is varied from one meter to four m	na tower.
		is varied from one meter to four me	na tower. eters above the ground to
	determine the maximu	is varied from one meter to four moments and the field strength. Both	na tower. eters above the ground to horizontal and vertical
	determine the maximu polarizations of the ant	is varied from one meter to four moments and the field strength. Both tenna are set to make the measure	na tower. eters above the ground to horizontal and vertical ement.
	determine the maximu polarizations of the ant e. For each suspected	is varied from one meter to four moments and the field strength. Both tenna are set to make the measured emission, the EUT was arranged the second se	na tower. eters above the ground to horizontal and vertical ement. o its worst case and then
	determine the maximu polarizations of the ant e. For each suspected the antenna was tuned	is varied from one meter to four more walue of the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter	na tower. eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of
	determine the maximu polarizations of the ant e. For each suspected the antenna was tuned below 30MHz, the antenna	is varied from one meter to four moments with the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to a was tuned to heights 1 meter	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table
	determine the maximu polarizations of the ant e. For each suspected the antenna was tuned below 30MHz, the antewas turned from 0 deg	is varied from one meter to four more walue of the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading.
	determine the maximu polarizations of the ant e. For each suspected the antenna was tuned below 30MHz, the antewas turned from 0 deg	is varied from one meter to four more moved to find the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to a meter to 360 degrees to find the master was set to Peak Detect Funct	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading.
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim	is varied from one meter to four more moved to find the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to a meter to 360 degrees to find the master was set to Peak Detect Funct	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. ton and Specified
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level	is varied from one meter to four more moved to fix the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter areas to 360 degrees to find the master was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. ton and Specified B lower than the limit
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing	is varied from one meter to four more moved to fix the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the master was set to Peak Detect Functum Hold Mode.	na tower. eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. ion and Specified B lower than the limit ues of the EUT would be
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the	is varied from one meter to four more walue of the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d.	na tower. eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. ion and Specified B lower than the limit ues of the EUT would be B margin would be re-
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the	is varied from one meter to four more movelue of the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter and was tuned to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d g peak, quasi-peak or average me	na tower. eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. ion and Specified B lower than the limit ues of the EUT would be B margin would be re-
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one using reported in a data sheet.	is varied from one meter to four more mover where the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to heights from 1 meter to 4 meter rees to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d to geak, quasi-peak or average meat.	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one usin reported in a data sheet h. Test the EUT in the	is varied from one meter to four more movelue of the field strength. Both tenna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter and was tuned to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d g peak, quasi-peak or average me	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then I, the Highest channel.
	determine the maximu polarizations of the anternation e. For each suspected the antenna was tuned below 30MHz, the anterwas turned from 0 deg f. The test-receiver system of the emission level specified, then testing reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the i. The radiation measure.	is varied from one meter to four more more was a set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meters and was tuned to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d ground peak, quasi-peak or average meat. lowest channel, the middle channer rements are performed in X, Y, Z and the most set to find the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and X	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then I, the Highest channel. xis positioning for
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the interesting mode, and the statement of th	is varied from one meter to four momer value of the field strength. Both tenna are set to make the measure emission, the EUT was arranged to the heights from 1 meter to 4 meter to 4 meter to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d ag peak, quasi-peak or average meter. lowest channel, the middle channer rements are performed in X, Y, Z and found the X axis positioning whice	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be B margin would be re- thod as specified and then I, the Highest channel. xis positioning for the it is the worst case.
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the interesting mode, and the statement of th	is varied from one meter to four more more was a set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meters and was tuned to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d ground peak, quasi-peak or average meat. lowest channel, the middle channer rements are performed in X, Y, Z and the most set to find the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and the middle channer means are performed in X, Y, Z and X	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be B margin would be re- thod as specified and then I, the Highest channel. xis positioning for the it is the worst case.
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the ii. The radiation measu Transmitting mode, an j. Repeat above proceed Remark:	is varied from one meter to four more more was a set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meters and was tuned to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d ag peak, quasi-peak or average meter. lowest channel, the middle channer rements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measured.	na tower. eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. ion and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then I, the Highest channel. xis positioning for the it is the worst case. ded was complete.
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one usin reported in a data sheeh. Test the EUT in the i. The radiation measu Transmitting mode, an j. Repeat above proceed Remark: 1) For emission below	is varied from one meter to four more more was a set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meters are set to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d ag peak, quasi-peak or average meter. Illowest channel, the middle channer rements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measure 1GHz, through pre-scan found the	na tower. eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. ion and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then I, the Highest channel. xis positioning for the it is the worst case. ded was complete.
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one usin reported in a data sheen. Test the EUT in the interest in EUT in	is varied from one meter to four more more was a set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meters are set to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d ag peak, quasi-peak or average meter. Illowest channel, the middle channer rements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measures 1GHz, through pre-scan found the st case is recorded in the report.	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then I, the Highest channel. xis positioning for the it is the worst case. It worst case is the lowest
	determine the maximu polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 deg f. The test-receiver sys Bandwidth with Maxim g. If the emission level specified, then testing reported. Otherwise the tested one by one usin reported in a data sheeth. Test the EUT in the i. The radiation measu Transmitting mode, an j. Repeat above proceed Remark: 1) For emission below channel. Only the wors 2) The field strength is	is varied from one meter to four more more with the strength of the field strength. Both the strength are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meters are stoned to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d to geak, quasi-peak or average meat. Illowest channel, the middle channer rements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measured 1GHz, through pre-scan found the st case is recorded in the report.	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then I, the Highest channel. xis positioning for th it is the worst case. d was complete. worst case is the lowest Factor, Cable Factor &
	determine the maximu polarizations of the anternation of the anternati	is varied from one meter to four more more was a set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meters are set to heights 1 meter rees to 360 degrees to find the mastem was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d ag peak, quasi-peak or average meter. Illowest channel, the middle channer rements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measures 1GHz, through pre-scan found the st case is recorded in the report.	na tower. eters above the ground to horizontal and vertical ement. to its worst case and then rs (for the test frequency of) and the rotatable table ximum reading. fon and Specified B lower than the limit ues of the EUT would be 3 margin would be re- thod as specified and then I, the Highest channel. xis positioning for th it is the worst case. d was complete. worst case is the lowest Factor, Cable Factor & n is as follows:

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Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.9.1 E.U.T. Operation:

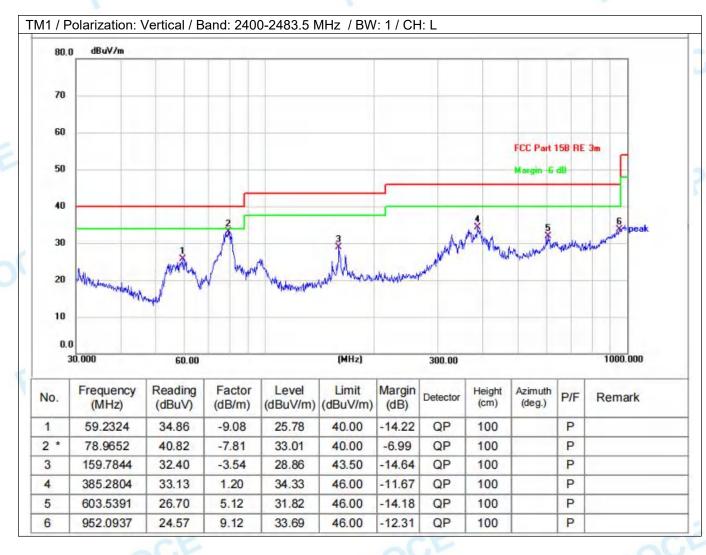
Operating Envir	onment:		CE		OCE	
Temperature:	23.6 °C	0	Humidity:	55.7 %	Atmospheric Pressure:	101 kPa
Pre test mode:		TM1				
Final test mode		TM1				

4.9.2 Test Data:

TM1 is worse case and only reported









4.10 Emissions in frequency bands (above 1GHz)

Test Requirement:		ssions which fall in the restricted bar mply with the radiated emission limit	
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement
	0.000.0.400	2400/[/kH=)	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	radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands i and 15.241. In the emission table about the emission limits show	paragraph (g), fundamental emission this section shall not be located in 174-216 MHz or 470-806 MHz. However, the tighter limit applies at the based on in the above table are based on resi-peak detector except for the frequence.	the frequency bands vever, operation within his part, e.g., §§ 15.231 and edges. neasurements
OCH		1000 MHz. Radiated emission limits	
		nents employing an average detector	
Toot Mathada			•
Test Method:	ANSI C63.10-2013 secti KDB 558074 D01 15.24	on 6.6.4 7 Meas Guidance v05r02	
POCE	above the ground at a 3 360 degrees to determine b. For above 1GHz, the above the ground at a 3 degrees to determine the c. The EUT was set 3 or which was mounted on to d. The antenna height is determine the maximum polarizations of the anteneur polarizations of the anteneur was turned to below 30MHz, the antenwas turned from 0 degrees f. The test-receiver system Bandwidth with Maximum g. If the emission level of specified, then testing correported. Otherwise the	EUT was placed on the top of a rotar or 10 meter semi-anechoic chambers the position of the highest radiation. EUT was placed on the top of a rotar meter fully-anechoic chamber. The exposition of the highest radiation. To meters away from the interference the top of a variable-height antennativaried from one meter to four meter a value of the field strength. Both hor name are set to make the measurement of the highest of the maximum was tuned to heights 1 meter) are to 360 degrees to find the maximum was set to Peak Detect Function on Hold Mode. If the EUT in peak mode was 10dB is peak, quasi-peak or average methole.	r. The table was rotated n. ting table 1.5 meters table was rotated 360 ce-receiving antenna, tower. The sabove the ground to izontal and vertical ent. The sworst case and then for the test frequency of the rotatable table num reading. The sabove the ground to izontal and specified tower than the limit is of the EUT would be argin would be re-
OCE	reported in a data sheet h. Test the EUT in the lo i. The radiation measure Transmitting mode, and j. Repeat above proceduremark: 1) For emission below 1 channel. Only the worst 2) The field strength is corresponding to the preamplifier. The basic expreamplifier in the local corresponding to the corresponding to the preamplifier.		ne Highest channel. positioning for is the worst case. vas complete. erst case is the lowest ctor, Cable Factor & as follows:

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Report No.: POCE231031013RL002

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.10.1 E.U.T. Operation:

Operating Envir	onment:		-6		25	
Temperature:	23.6 °C		Humidity:	55.7 %	Atmospheric Pressure:	101 kPa
Pre test mode:	3	TM1,	TM2, TM3		PO	
Final test mode:		TM1				

4.10.2 Test Data:

TM1 is worse case and only reported

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4804.000	38.19	-0.90	37.29	74.00	-36.71	peak			Р	
2	4804.000	27.05	-0.90	26.15	54.00	-27.85	AVG			Р	
3	7206.000	35.35	4.13	39.48	74.00	-34.52	peak			Р	
4	7206.000	25.17	4.13	29.30	54.00	-24.70	AVG			Р	
5	9608.000	34.97	8.09	43.06	74.00	-30.94	peak			Р	
6 *	9608.000	24.60	8.09	32.69	54.00	-21.31	AVG			Р	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4804.000	36.78	-0.28	36.50	74.00	-37.50	peak			Р	
2	4804.000	27.62	-0.28	27.34	54.00	-26.66	AVG			Р	
3	7206.000	34.91	4.09	39.00	74.00	-35.00	peak			Р	
4	7206.000	25.48	4.09	29.57	54.00	-24.43	AVG			Р	
5	9608.000	34.42	8.02	42.44	74.00	-31.56	peak			Р	
6 *	9608.000	24.60	8.02	32.62	54.00	-21.38	AVG			Р	

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4882.000	38.29	-0.64	37.65	74.00	-36.35	peak			Р	
2	4882.000	27.67	-0.64	27.03	54.00	-26.97	AVG			Р	
3	7323.000	35.35	4.31	39.66	74.00	-34.34	peak			Р	
4	7323.000	25.11	4.31	29.42	54.00	-24.58	AVG			Р	
5	9764.000	35.03	8.09	43.12	74.00	-30.88	peak			Р	
6 *	9764.000	24.75	8.09	32.84	54.00	-21.16	AVG			Р	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4882.000	39.18	-0.03	39.15	74.00	-34.85	peak			Р	
2	4882.000	27.92	-0.03	27.89	54.00	-26.11	AVG			Р	
3	7323.000	34.81	4.36	39.17	74.00	-34.83	peak			Р	
4	7323.000	25.03	4.36	29.39	54.00	-24.61	AVG			Р	
5	9764.000	34.81	8.13	42.94	74.00	-31.06	peak			Р	
6 *	9764.000	24.81	8.13	32.94	54.00	-21.06	AVG			Р	



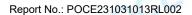
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4960.000	38.36	-0.37	37.99	74.00	-36.01	peak			Р	
2	4960.000	27.11	-0.37	26.74	54.00	-27.26	AVG			Р	
3	7440.000	35.34	4.49	39.83	74.00	-34.17	peak			Р	
4	7440.000	25.22	4.49	29.71	54.00	-24.29	AVG			Р	
5	9920.000	35.80	8.08	43.88	74.00	-30.12	peak			Р	
6 *	9920.000	25.07	8.08	33.15	54.00	-20.85	AVG			Р	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4960.000	37.49	0.23	37.72	74.00	-36.28	peak			Р	
2	4960.000	27.32	0.23	27.55	54.00	-26.45	AVG			Р	
3	7440.000	35.52	4.64	40.16	74.00	-33.84	peak			Р	
4	7440.000	25.25	4.64	29.89	54.00	-24.11	AVG			Р	
5	9920.000	34.84	8.23	43.07	74.00	-30.93	peak			Р	
6 *	9920.000	25.21	8.23	33.44	54.00	-20.56	AVG			Р	

Remark: Over= Measurement Level - Limit

Measurement Level=Test receiver reading + correction factor

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





5 TEST SETUP PHOTOS

Please refer to Setup Photo file

6 PHOTOS OF THE EUT

Please refer to external photos file and internal photos file



Appendix



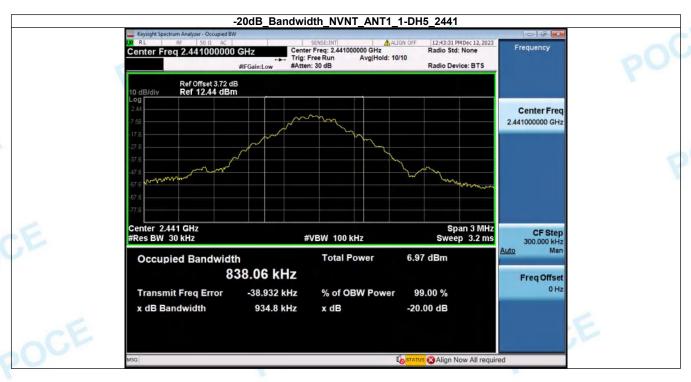
Ally Screen device--ALW-R03-23--FCC ID FCC_BT (Part15.247) Test Data

1. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.933	No
NVNT	ANT1	1-DH5	2441.00	0.935	No
NVNT	ANT1	1-DH5	2480.00	0.934	No
NVNT	ANT1	2-DH5	2402.00	1.249	Yes
NVNT	ANT1	2-DH5	2441.00	1.251	Yes
NVNT	ANT1	2-DH5	2480.00	1.254	Yes
NVNT	ANT1	3-DH5	2402.00	1.265	Yes
NVNT	ANT1	3-DH5	2441.00	1.261	Yes
NVNT	ANT1	3-DH5	2480.00	1.264	Yes

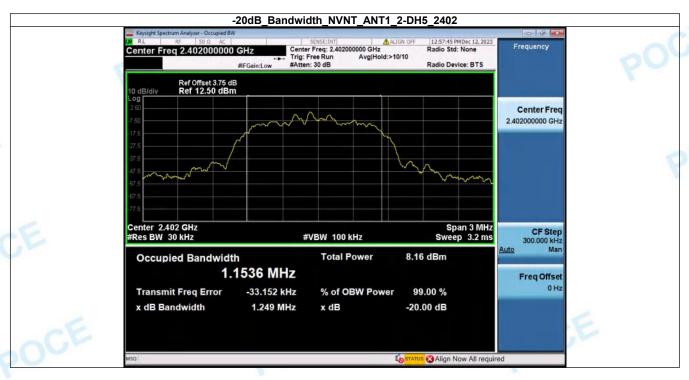






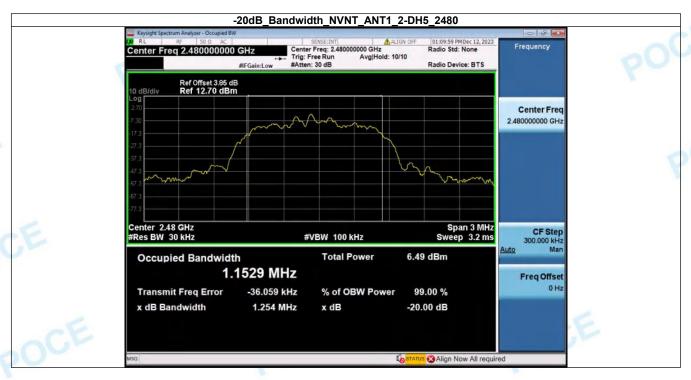






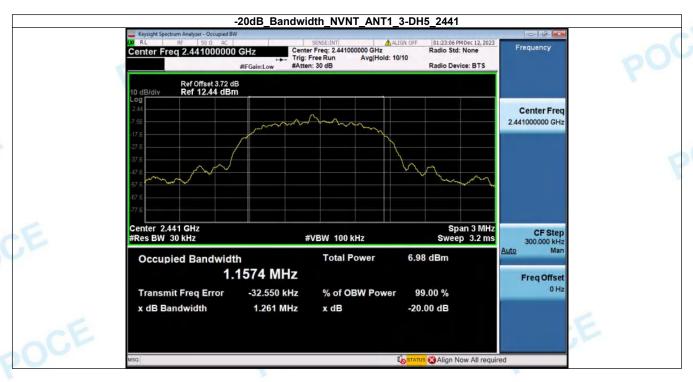










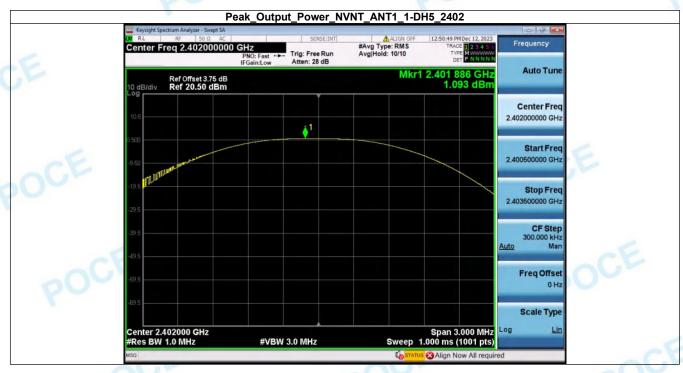


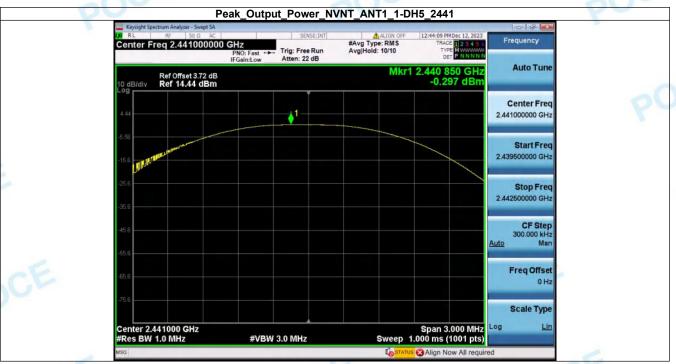




2. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	1.09	1.29	1000	Pass
NVNT	ANT1	1-DH5	2441.00	-0.30	0.93	1000	Pass
NVNT	ANT1	1-DH5	2480.00	-0.61	0.87	1000	Pass
NVNT	ANT1	2-DH5	2402.00	2.03	1.59	125	Pass
NVNT	ANT1	2-DH5	2441.00	0.77	1.19	125	Pass
NVNT	ANT1	2-DH5	2480.00	0.39	1.09	125	Pass
NVNT	ANT1	3-DH5	2402.00	2.60	1.82	125	Pass
NVNT	ANT1	3-DH5	2441.00	1.34	1.36	125	Pass
NVNT	ANT1	3-DH5	2480.00	0.98	1.25	125	Pass

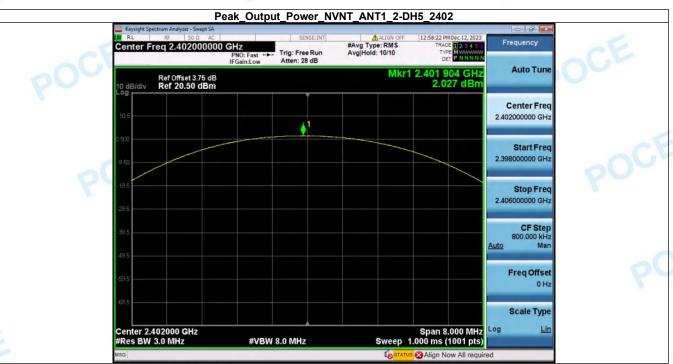




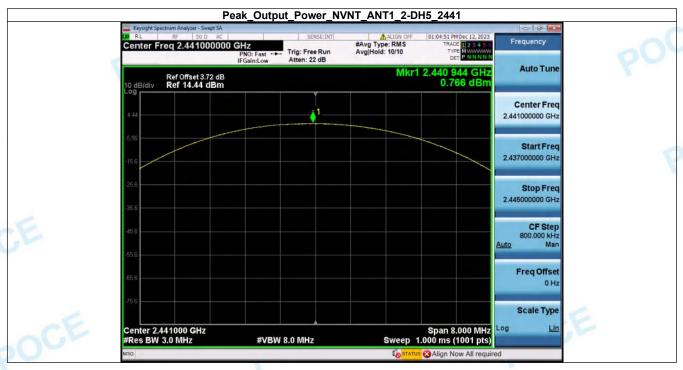
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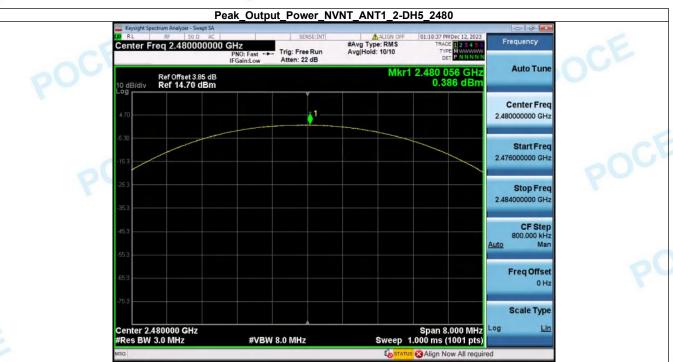




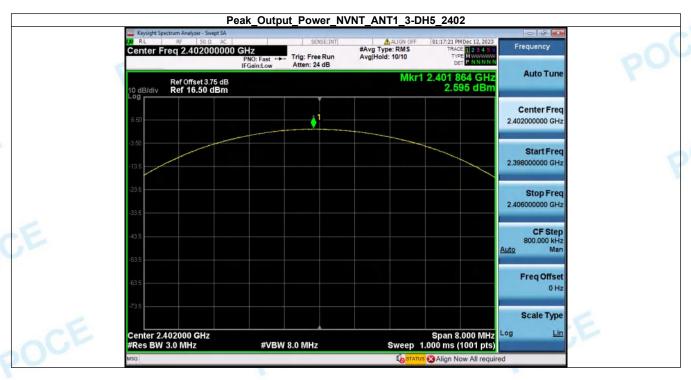






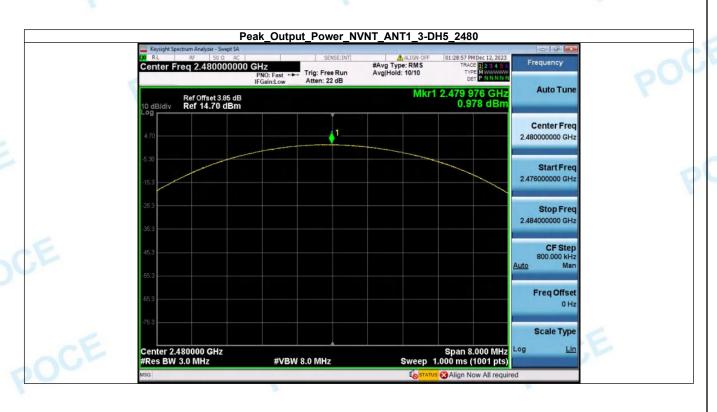








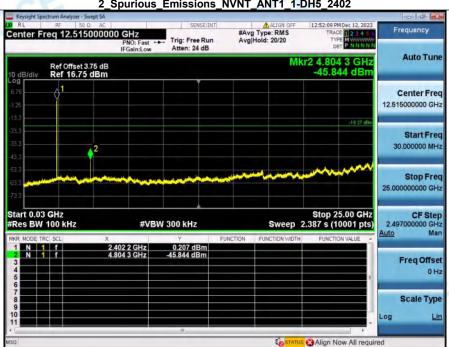




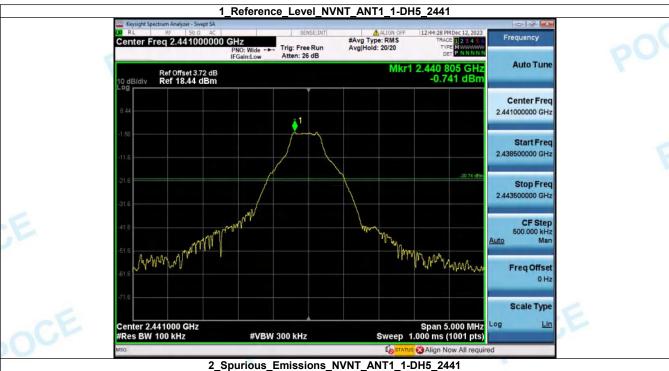
3. Spurious Emissions

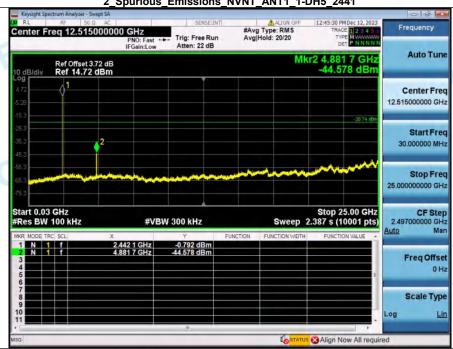
Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-45.844	-19.270	Pass
NVNT	ANT1	1-DH5	2441.00	-44.578	-20.741	Pass
NVNT	ANT1	1-DH5	2480.00	-46.337	-21.076	Pass
NVNT	ANT1	2-DH5	2402.00	-46.487	-19.247	Pass
NVNT	ANT1	2-DH5	2441.00	-48.775	-20.657	Pass
NVNT	ANT1	2-DH5	2480.00	-49.092	-21.050	Pass
NVNT	ANT1	3-DH5	2402.00	-43.987	-19.283	Pass
NVNT	ANT1	3-DH5	2441.00	-48.361	-20.656	Pass
NVNT	ANT1	3-DH5	2480.00	-49.513	-21.054	Pass



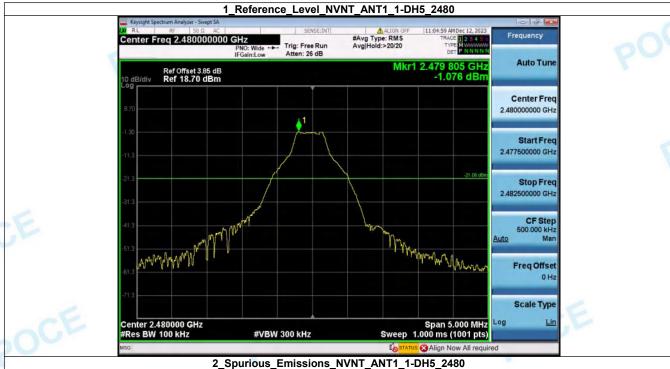


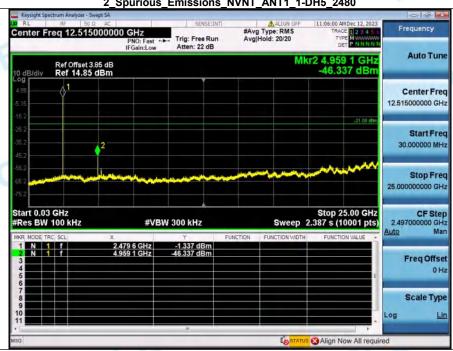






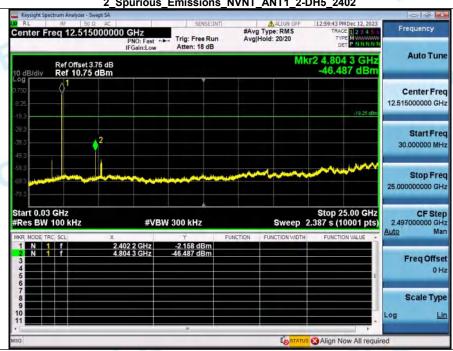






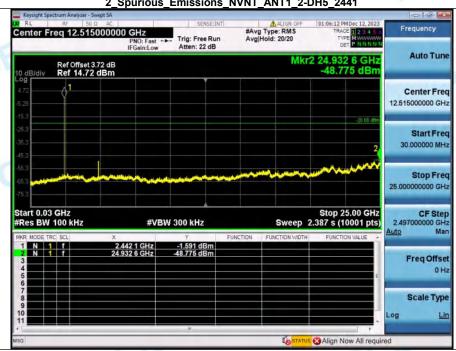




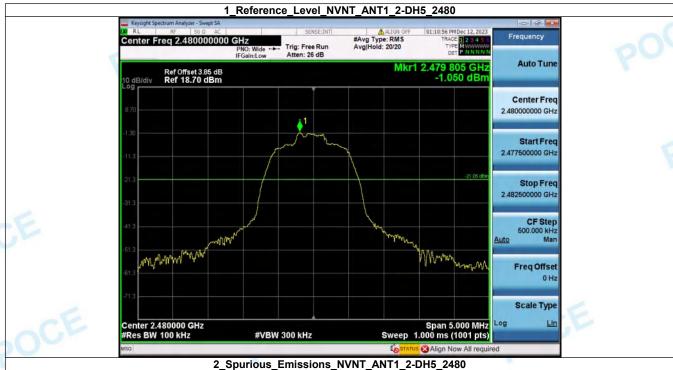


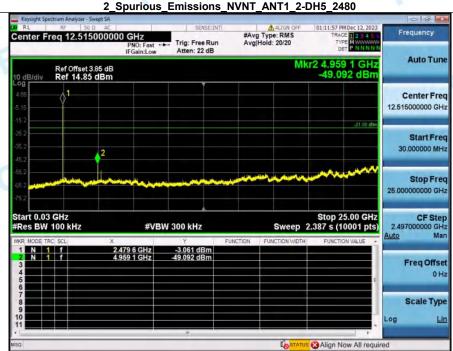






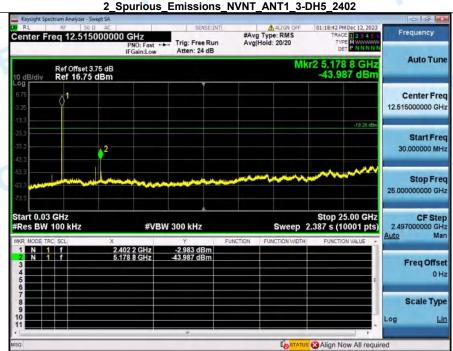






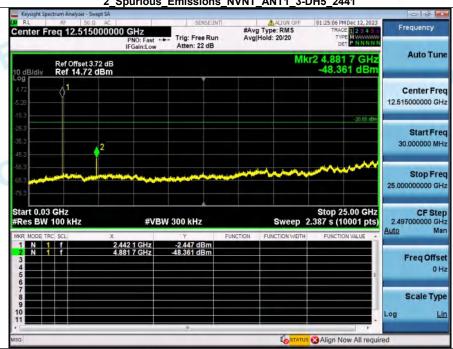














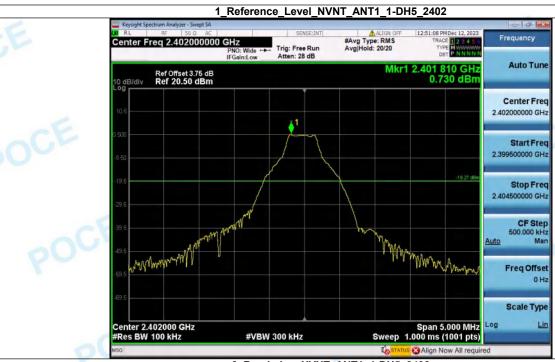






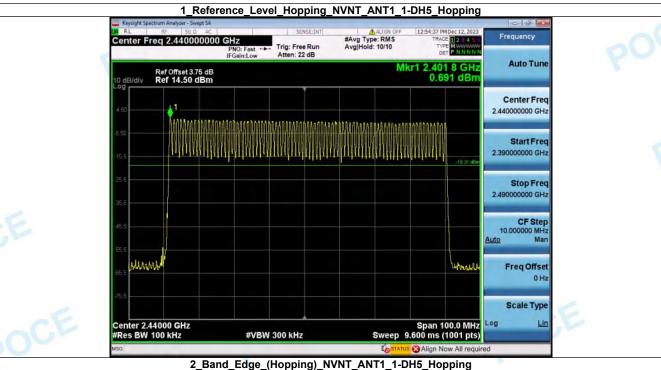
4. Bandedge

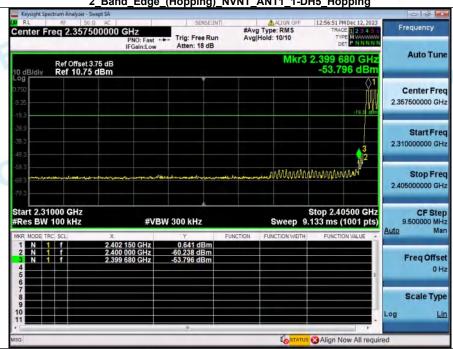
Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-51.470	-19.270	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-53.796	-19.309	Pass
NVNT	ANT1	1-DH5	2480.00	-60.884	-21.076	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-61.517	-19.372	Pass
NVNT	ANT1	2-DH5	2402.00	-53.303	-19.247	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-54.564	-19.308	Pass
NVNT	ANT1	2-DH5	2480.00	-61.304	-21.050	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-63.339	-19.450	Pass
NVNT	ANT1	3-DH5	2402.00	-52.784	-19.283	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-56.085	-19.633	Pass
NVNT	ANT1	3-DH5	2480.00	-59.559	-21.054	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-63.624	-19.339	Pass



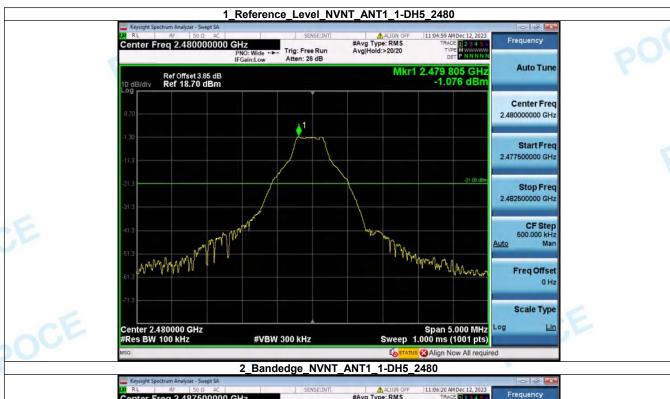






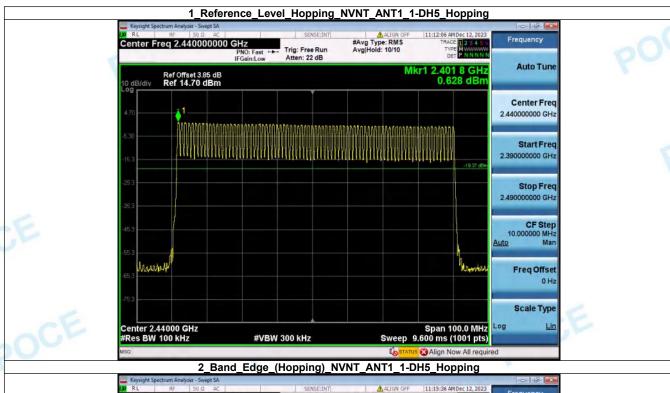








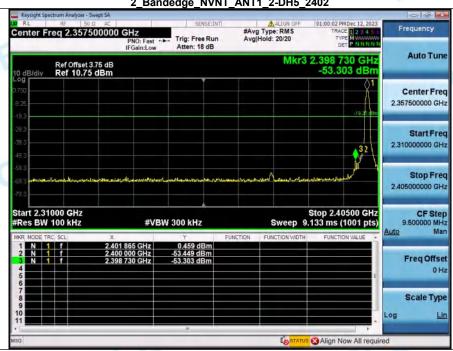




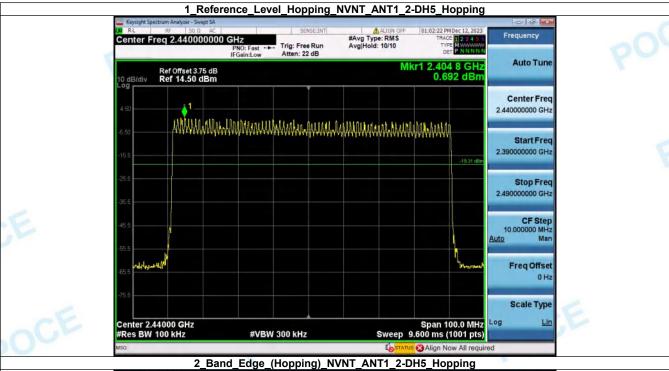


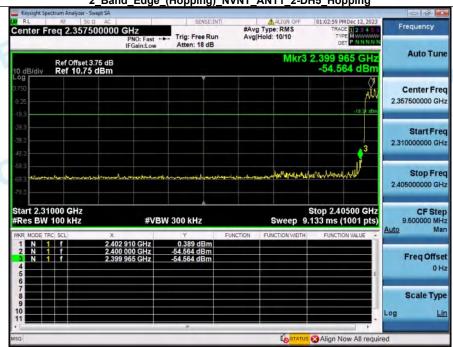






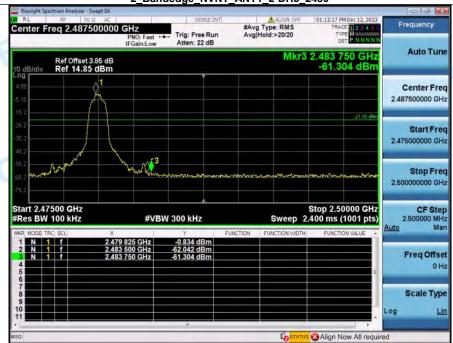




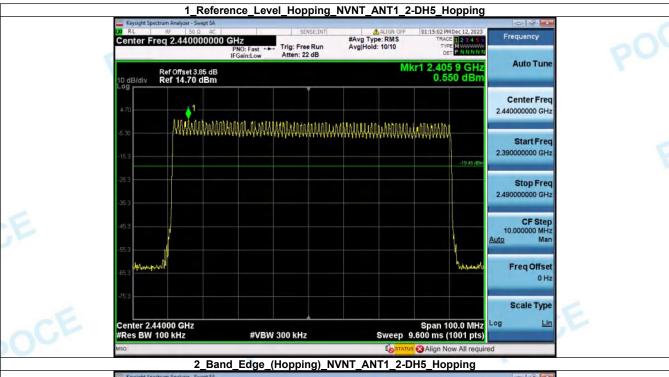








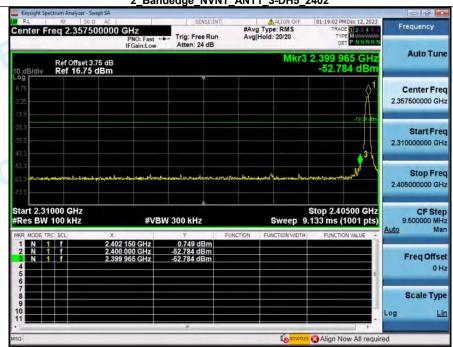






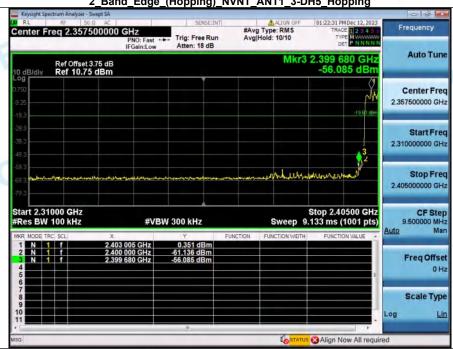










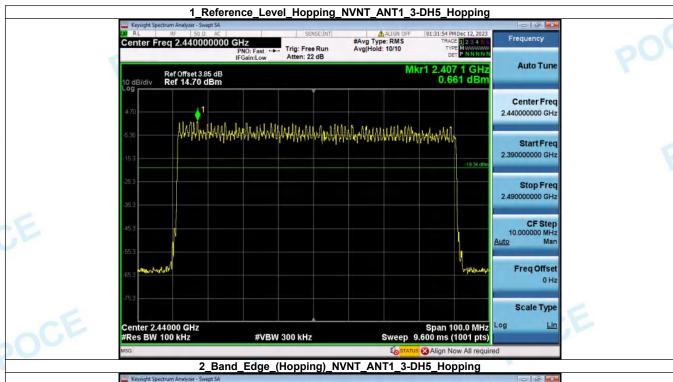










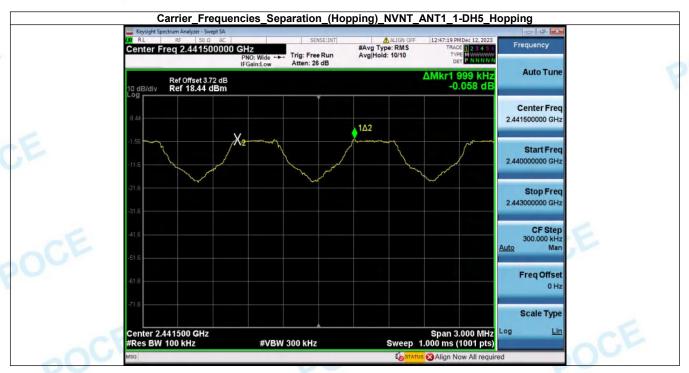






5. Carrier Frequencies Separation (Hopping)

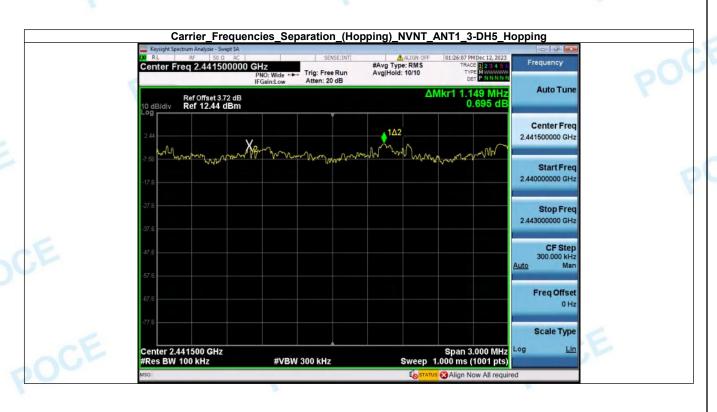
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2441.00	2440.807	2441.806	1.00	0.935	Pass
NVNT	ANT1	2-DH5	2441.00	2440.933	2441.944	1.01	0.834	Pass
NVNT	ANT1	3-DH5	2441.00	2440.789	2441.938	1.15	0.841	Pass





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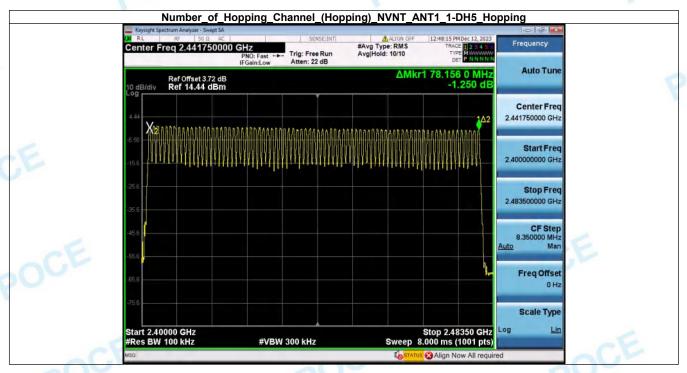


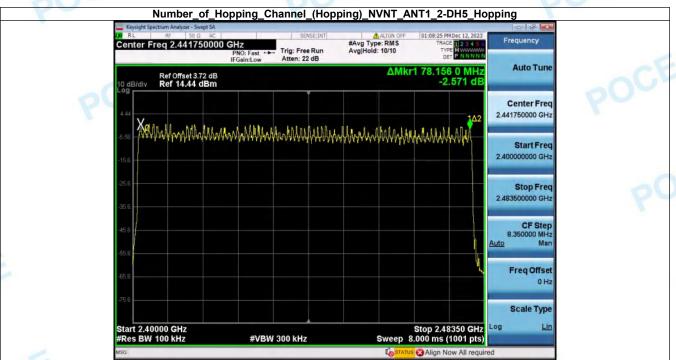




6. Number of Hopping Channel (Hopping)

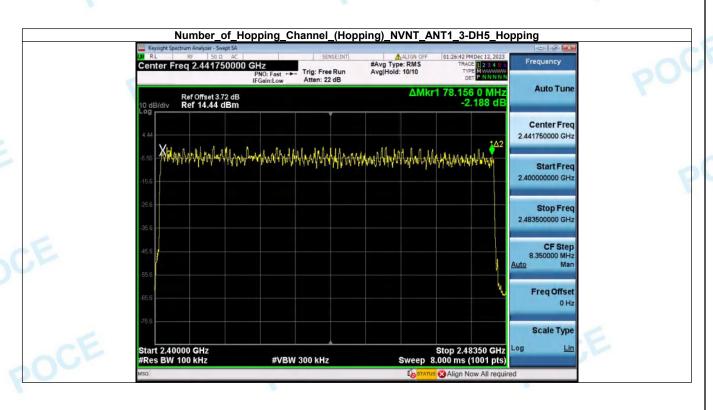
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass





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7. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.897	98.00	283.906	0.40	Pass
NVNT	ANT1	2-DH5	2.902	116.00	336.632	0.40	Pass
NVNT	ANT1	3-DH5	2.908	112.00	325.696	0.40	Pass
NVNT	ANT1	1-DH1	0.393	320.00	125.760	0.40	Pass
NVNT	ANT1	1-DH3	1.651	167.00	275.717	0.40	Pass
NVNT	ANT1	2-DH1	0.402	320.00	128.640	0.40	Pass
NVNT	ANT1	2-DH3	1.654	165.00	272.910	0.40	Pass
NVNT	ANT1	3-DH1	0.407	320.00	130.240	0.40	Pass
NVNT	ANT1	3-DH3	1.654	150.00	248.100	0.40	Pass

