



TEST REPORT

Application No.: SZEM2010010288CR
Applicant: OnePlus Technology (Shenzhen) Co., Ltd.
Address of Applicant: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China
Manufacturer: OnePlus Technology (Shenzhen) Co., Ltd.
Address of Manufacturer: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China
Factory: Please refer to section 2
Address of Factory: Please refer to section 2
Equipment Under Test (EUT):
EUT Name: OnePlus Buds Z
Model No.: E502A
Trade mark: ONEPLUS
FCC ID: 2ABZ2-E502A
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-10-24
Date of Test: 2020-10-24 to 2020-12-23
Date of Issue: 2020-12-28

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager




SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-28		Original

Authorized for issue by:			
			
		<hr/> Bill Chen/Project Engineer	
			
		<hr/> Eric Fu/Reviewer	

2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass

Factory:	Address of Factory:
Shenzhen sunynn Technology Co., Ltd.	201, building C, Xinxing Industrial Park, no. 3151 Shahe West Road, Shuguang Community, Xili Street, Nanshan District, Shenzhen City
Jiangxi Risound Electronics Co., Ltd.	No.271, Innovation Avenue, Jinggangshan Economic and Technological Development Zone, Ji'an City, Jiangxi Province.
Hunan sunynn Technology Co., Ltd.	Building 3&4, Intelligent Home Appliance Industrial park, North Xieyuan Road, Ningxiang Economic and Technological Development Zone, Changsha City
Shenzhen Sunwinon Electronics Co., Ltd.	Floor 1-6 of 4# Building 101, No. 6-6, Yanshan avenue, Yanchuan community, Yanluo street, Bao'an district, Shenzhen 518108, P.R. China.

Remark:

Model No.: E502A

According to the declaration from the applicant, the model in this report and model in original report were identical, with only difference on secondary supply battery and reduce RF output power.

Therefore in this report Conducted Peak Output Power was fully retested on model E502A and shown the data in this report, other test data in this report were based on previous report with report SZEM200800775203.



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4 General Information

4.1 Details of E.U.T.

Battery:	Charging BOX: Rechargeable battery DC 3.8V 450mAh (Charged by Type-C) Left earphone: Rechargeable battery DC 3.8V 40mAh (Charged by Charging BOX) Right earphone: Rechargeable battery DC 3.8V 40mAh (Charged by Charging BOX)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual Mode
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Data rate:	1Mbit/s
Antenna Type:	Ceramic Antenna
Antenna Gain:	0.5dBi
Hardware Version:	EF178_0
Software version:	V8.0.6.0
Test software & version:	BQB & 20200306
S/N:	E502ASOW112002170001
FVIN version:	V8.0.6.0

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz



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:

Selected Test Channel	
Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (C19)	2440MHz
The highest channel (CH39)	2480MHz

4.2 Cable

Cable	Length	Shielding	Core
Type-C cable	20cm	Unshielded	Non-Core

4.3 Description of Support Units

Description	Manufacturer	Model No.
Test board	SGS provides	N/A
USB cable	SGS provides	N/A

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	$\pm 0.75\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



4.5 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

RF Conducted					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2020-09-25	2021-09-24
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-25	2021-09-24
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-25	2021-09-24
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

6 Radio Spectrum Matter Test Results

6.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247
 Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit: $\leq 20.97\text{dBm}$

6.1.1 E.U.T. Operation

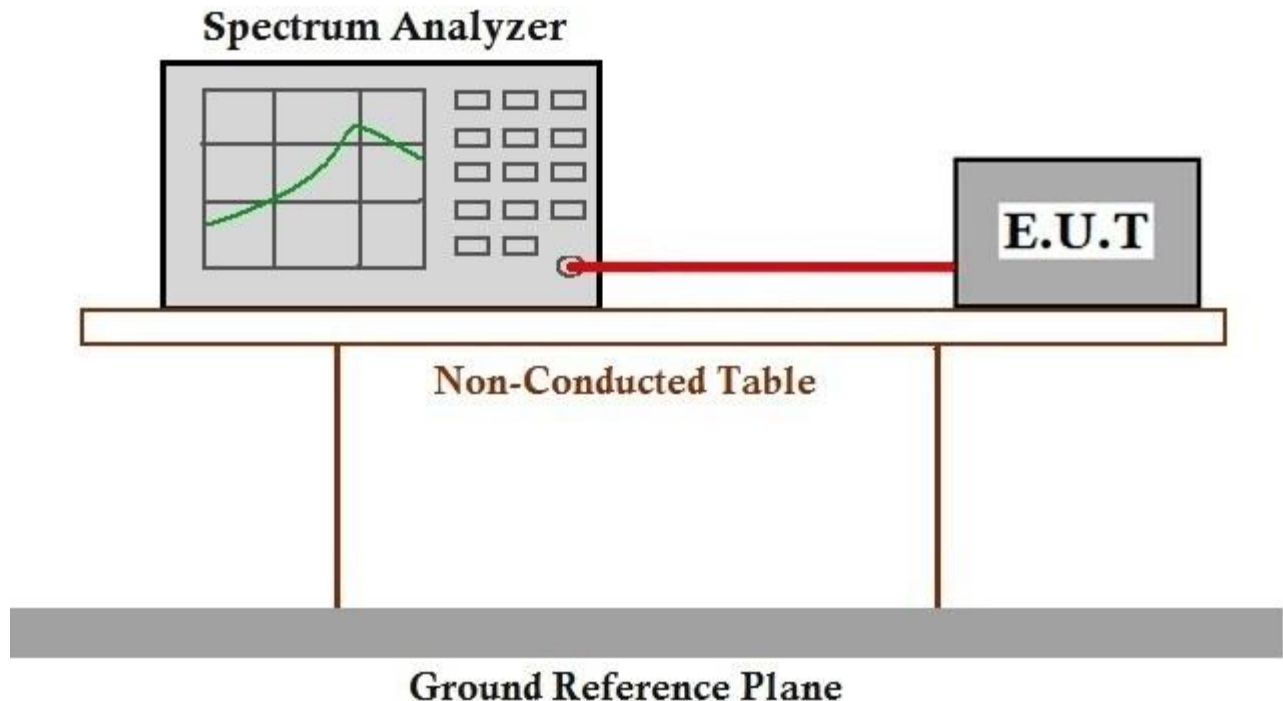
Operating Environment:

Temperature: 23.5 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Please Refer To Appendix 15.247 For Details



7 Test Setup Photo

Please refer to setup photos.

8 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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9 Appendix

9.1 Appendix 15.247 for Right

1. Maximum Conducted Output Power

1.1 Test Result

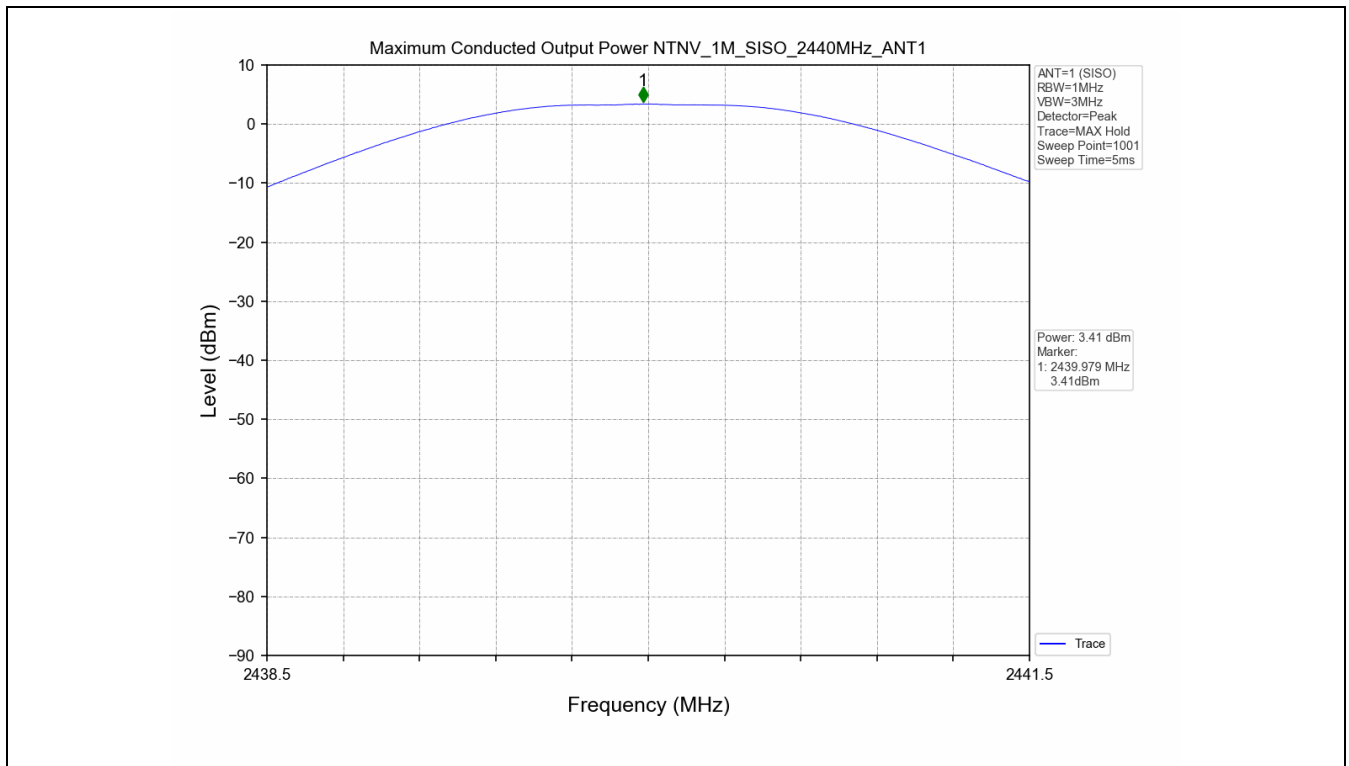
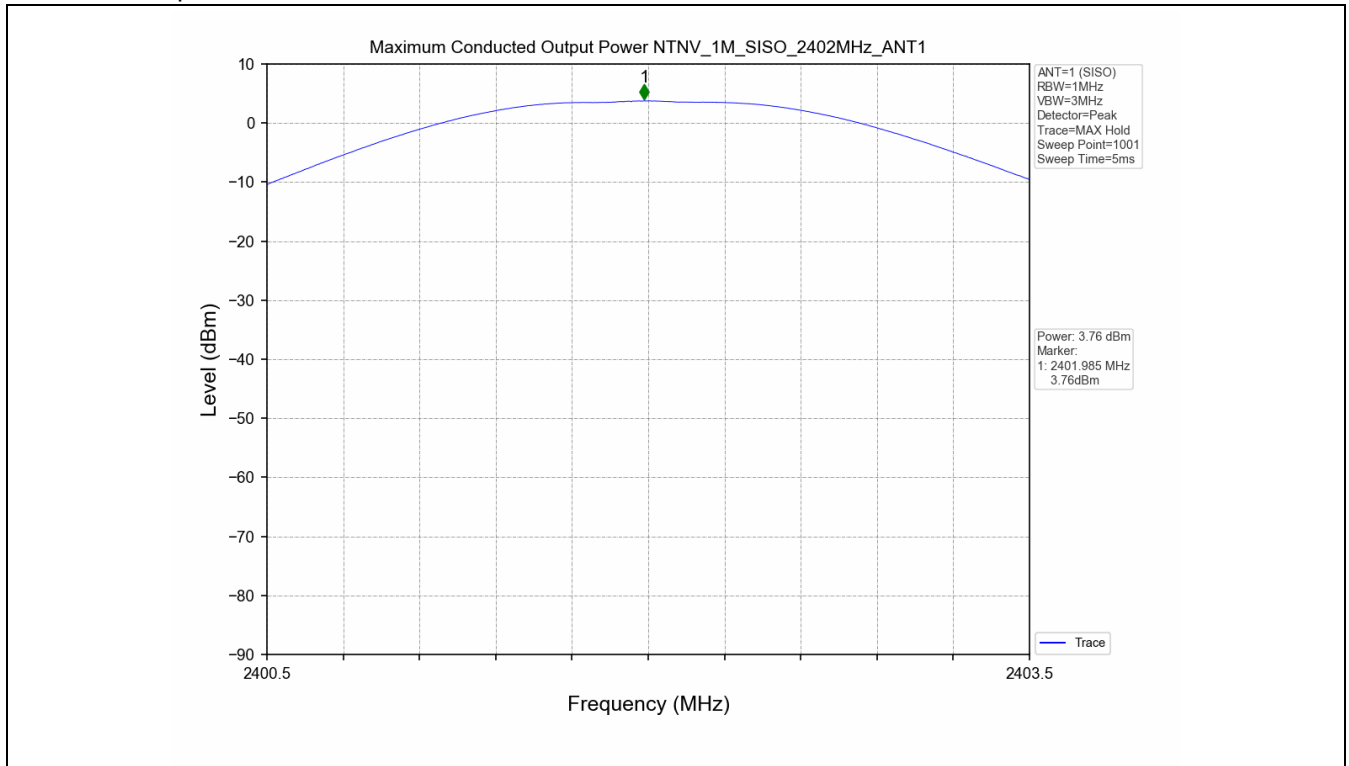
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
1M	2402	SISO	3.76	30	PASS
	2440	SISO	3.41	30	PASS
	2480	SISO	2.95	30	PASS



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1.2 Test Graph

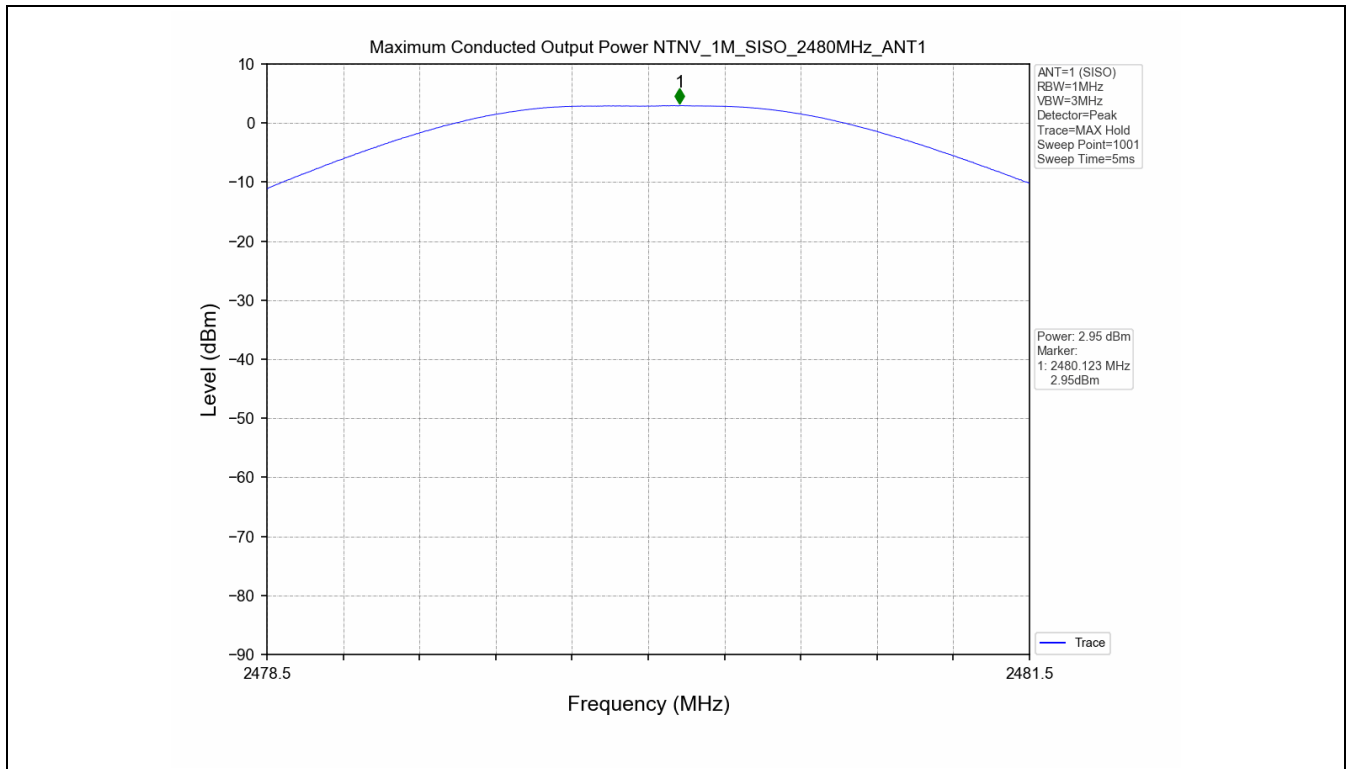


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9.2 Appendix 15.247 for Left

1. Maximum Conducted Output Power

1.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
1M	2402	SISO	3.51	30	PASS
	2440	SISO	3.53	30	PASS
	2480	SISO	3.33	30	PASS



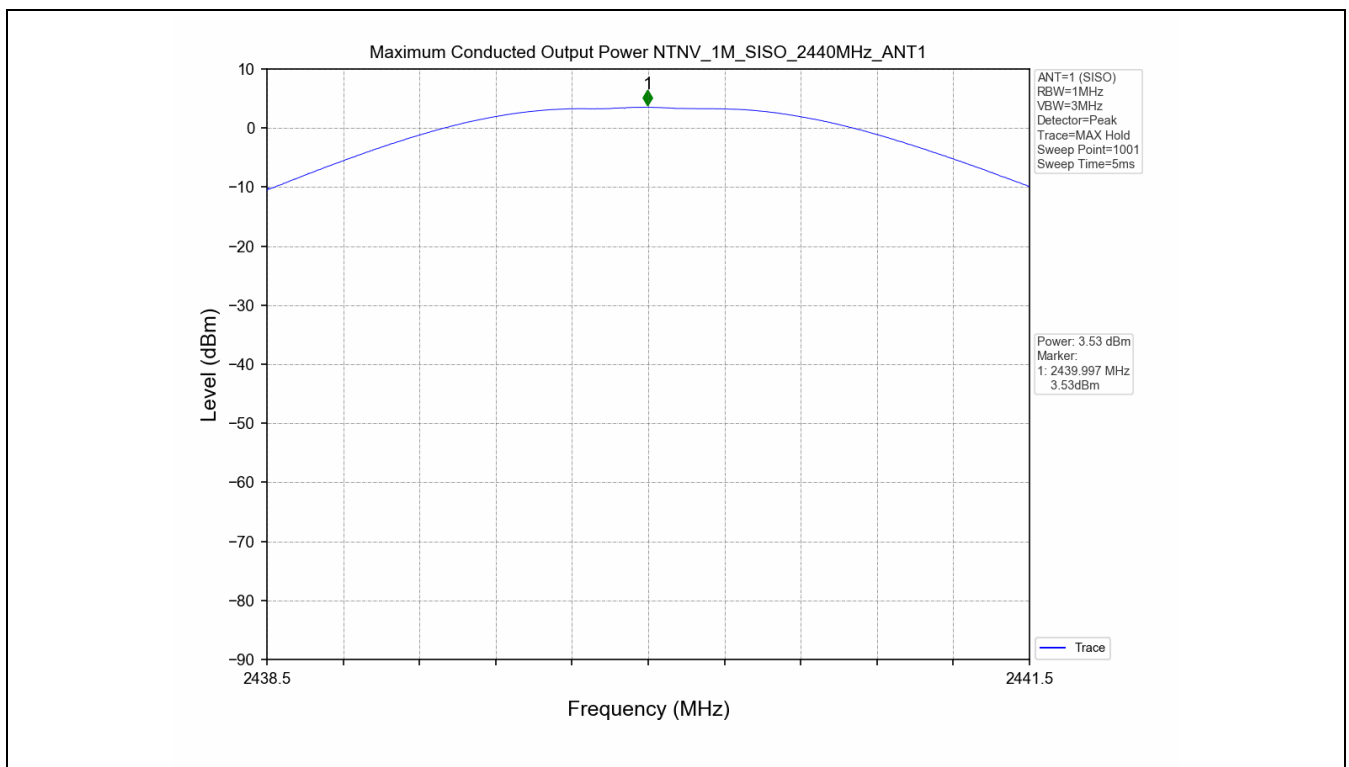
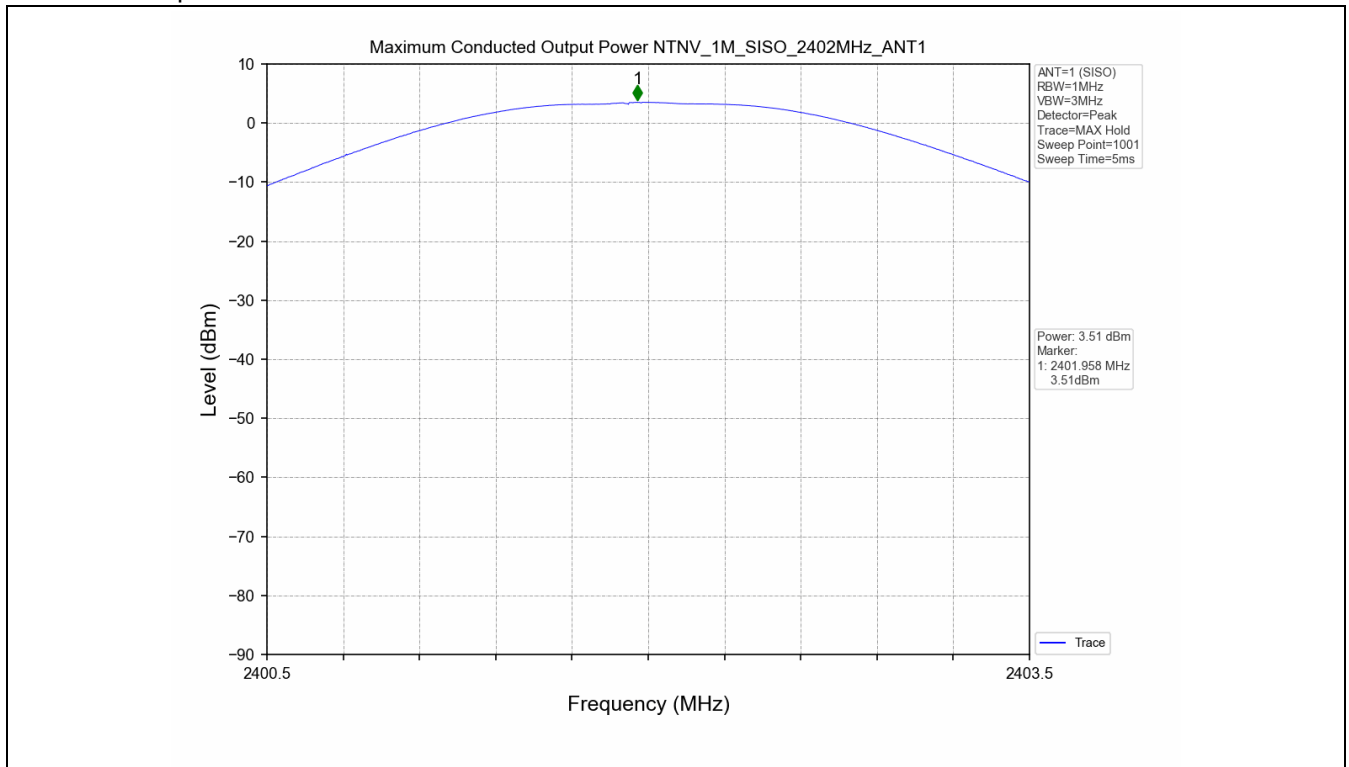
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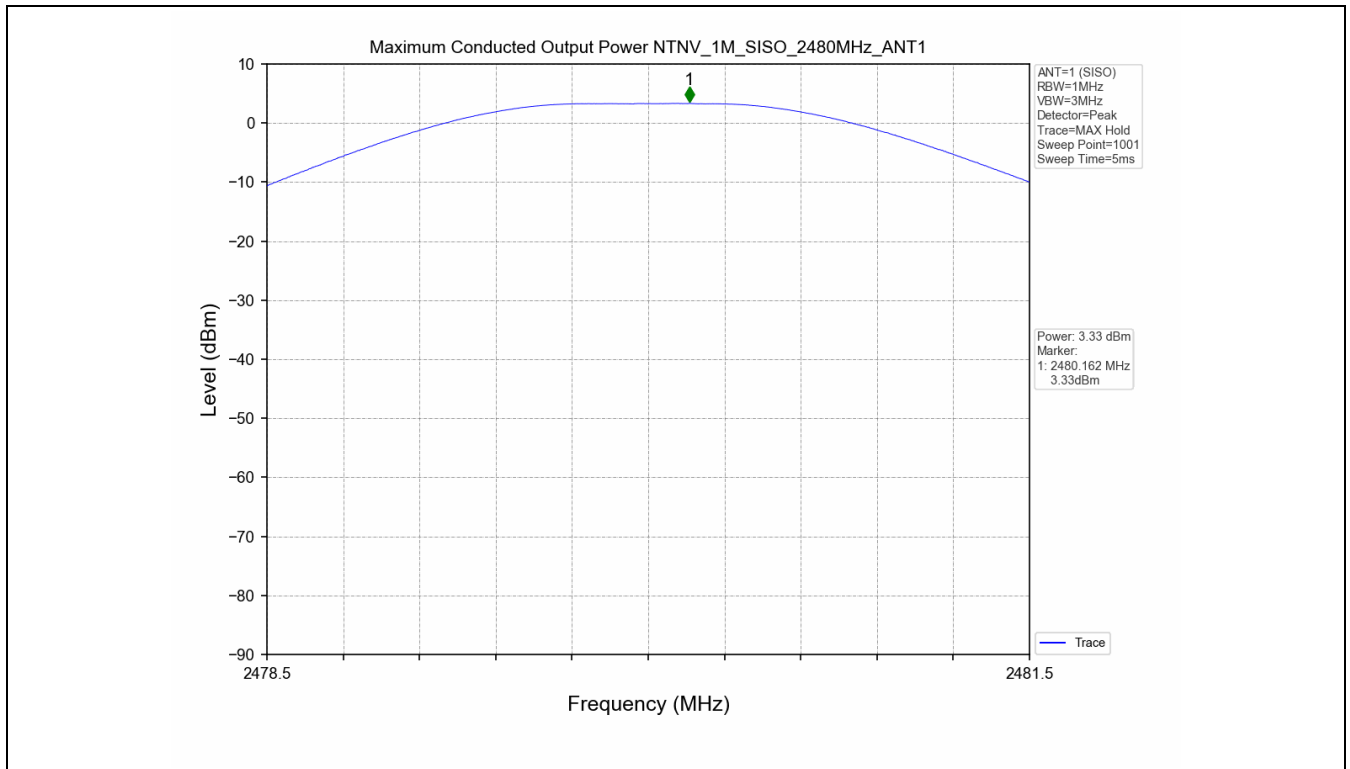
1.2 Test Graph



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- End of the Report -