

RF Test Report

For

Applicant Name:

TECNO MOBILE LIMITED

Address:

Address:

EUT Name:

Brand Name:

Model Number:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG Laptop Computer TECNO **T14AA** Series Model Number: Refer to Section 2

Issued By

Company Name:

BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: Test Standards:

BTF230918R00204 47 CFR Part 15E

Test Conclusion: FCC ID: Test Date: Date of Issue:

Pass 2ADYY-T14AA 2023-08-29 to 2023-09-19 2023-09-20

Prepared By:

Date:

Approved By:

Date:

henz hris Chris Liu / Project Engine 2023-09-20

Ryan.CJ / EMC Manager 2023-09-20

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Page 1 of 290

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Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-09-20	Original	

Note: Once the revision has been made, then previous versions reports are invalid.

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Table of Contents

1	INTR	INTRODUCTION		
	1.1	Identification of Testing Laboratory		
	1.2 1.3	Identification of the Responsible Testing Location		
2		DUCT INFORMATION		
2				
	2.1 2.2	Application Information		
	2.3	Factory Information		
	2.4	General Description of Equipment under Test (EUT)		
	2.5	Technical Information		
3		MARY OF TEST RESULTS		
	3.1 3.2	Test Standards Uncertainty of Test		
	3.3	Summary of Test Result		
4		CONFIGURATION		
	4.1	Test Equipment List		
	4.2	Test Auxiliary Equipment		
	4.3	Test Modes		
	4.4	Table of Parameters of Text Software Setting		
5		UATION RESULTS (EVALUATION) 1		
	5.1	Antenna requirement		
		5.1.1 Conclusion:		
6		O SPECTRUM MATTER TEST RESULTS (RF) 1		
	6.1	Conducted Emission at AC power line		
		6.1.1 E.U.T. Operation:		
		6.1.3 Test Data:		
	6.2	Duty Cycle		
		6.2.1 E.U.T. Operation:		
		6.2.2 Test Result: (Meet requirements)		
	6.3	Maximum conducted output power		
		6.3.1 E.U.T. Operation:		
	6.4	Power spectral density		
	••••	6.4.1 E.U.T. Operation:		
		6.4.2 Test Data:		
	6.5	Emission bandwidth and occupied bandwidth		
		6.5.1 E.U.T. Operation:		
	6.6	6.5.2 Test Data:		
	0.0	6.6.1 E.U.T. Operation:		
		6.6.2 Test Setup Diagram:		
		6.6.3 Test Data:	30	
	6.7	Undesirable emission limits (below 1GHz)		
		6.7.1 E.U.T. Operation:		
		6.7.2 Test Setup Diagram:		

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Test Report Number: BTF230918R00204

6.8	Unde	sirable emission limits (above 1GHz)	
	6.8.1	E.U.T. Operation:	
		Test Data:	
APPENDIX			

1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China			
Phone Number:	+86-0755-23146130		
Fax Number:	+86-0755-23146130		
FCC Registration Number:	518915		
Designation Number:	CN1330		

1.3 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.

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2 **Product Information**

2.1 Application Information

Company Name:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Company Name:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 Factory Information

Company Name:	GUANGXI SHANCHAUN TECHNOLOGY CO LTD
Address:	The Second Floor of Plant C01, Plant C02, Plant C03 and Plant D03 Guangxi Sannuo Smart Industrial Park, No.3, Gaoke Road, Beihai Industrial Park, BEIHAI, 536000 Guangxi, P.R.China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Laptop Computer
Test Model Number:	T14AA
Series Model Number:	N/A
Software Version:	Win 11 home
Hardware Version:	N156EAL01_MB_V11

2.5 Technical Information

	Li-ion Battery: 528252-3S1P	
	Rated Voltage: 11.61V	
Power Supply:	Rated Capacity: 6460mAh/75Wh	
	Limited Capacity: 6550mAh/76.04Wh	
	Limited Charge Voltage: 13.35V	
	Adapter1: DS65-2	
	Input: 100-240V~50/60Hz 1.5A Max	
	Output: 5.0V 3.0A 9.0V 3.0A 12.0V 3.0A	
	15.0V3.0A 20.0V3.25A 65.0W	
Power Adaptor:	Adapter2: TCW-A61S-65W	
	Input: 100-240V~50/60Hz 1.5A Max	
	Output: DP: 5.0V3A 9V3A 12V3A	
	15V3A 20V3.25A	
	PPS: 3.3-11V 5A Max	
	Band 1: 5180-5240 MHz	
Operation Frequency:	Band 2: 5260-5320 MHz	
Operation requency.	Band 3: 5500-5700 MHz	
	Band 4: 5745-5825 MHz	
Number of Channels:	Refer to Section 4.4	
Modulation Type:	IEEE 802.11a/n/ac/ax: OFDM/OFDMA	
Modulation Type:	(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)	
Antenna Type:	FPC Antenna	
Antenna Gain [#] :	MAIN: 4.60dBi AUX: 3.79 dBi	

Note:

#: This report only reflects the worst-case adapter 1 data.

#: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.

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Page 6 of 290

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3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards: 47 CFR Part 15E: Unlicensed National Information Infrastructure Devices

47 CFR Part 15E: Unlicensed National Information Infrastructu

3.2 Uncertainty of Test

Item	Measurement Uncertainty			
Conducted Emission (150 kHz-30 MHz)	±2.64dB			
The following measurement uncertainty levels have been estimated for tests performed on the EUT as				
specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately				
the 95% confidence level using a coverage factor of k=2.				

Result Item Standard Requirement Antenna requirement 47 CFR Part 15E Part 15.203 Pass Conducted Emission at AC power 47 CFR Part 15E 47 CFR Part 15.207(a) Pass line 47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15E Pass Maximum conducted output power 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i) 47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15E Power spectral density Pass 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i) U-NII 1, U-NII 2A, U-NII 2C: Emission bandwidth and occupied 47 CFR Part 15E No limits, only for report use. Pass bandwidth 47 CFR Part 15.407(e) 47 CFR Part 15E 47 CFR Part 15.407(h)(2)(ii) **Channel Availability Check Time** Pass **U-NII** Detection Bandwidth 47 CFR Part 15E 47 CFR Part 15.407(h)(2) Pass KDB 935210 D02, Clause 5.1 Statistical Performance Check 47 CFR Part 15E Pass Table 2 Channel Move Time, Channel 47 CFR Part 15E 47 CFR Part 15.407(h)(2)(iii) Pass **Closing Transmission Time** Non-Occupancy Period Test 47 CFR Part 15E 47 CFR Part 15.407(h)(2)(iv) Pass KDB 905462 D02, Clause 5.2 Pass **DFS** Detection Thresholds 47 CFR Part 15E Table 3 47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) Band edge emissions (Radiated) 47 CFR Part 15E Pass 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10) Undesirable emission limits (below 47 CFR Part 15E 47 CFR Part 15.407(b)(9) Pass 1GHz) 47 CFR Part 15.407(b)(1) Undesirable emission limits (above 47 CFR Part 15.407(b)(2) Pass 47 CFR Part 15E 1GHz) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)

3.3 Summary of Test Result

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Test Configuration 4

4.1 **Test Equipment List**

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2022-11-24	2023-11-23

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Maximum conducted output power							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23		

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Power spectral density							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23		

Emission bandwidth and occupied bandwidth								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
RFTest software	/	V1.00	/	/	/			
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23			
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23			
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23			
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23			
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23			
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23			

Channel Availability Check Time								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
RFTest software	/	V1.00	/	/	/			
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23			
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23			
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23			
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23			
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23			

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Page 9 of 290



MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23
WINA Olyriai Analyzer	RETOIOTT	NJUZUA	101130410020	2022-11-24	2023-11-23
U-NII Detection Bandy	vidth				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct	Dongguan Tongmen Electronic	etm-6050c	20211026123	2022-11-24	2023-11-23

Current Regulated Power Supply	Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Statistical Performance Check							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23		

Channel Move Time, Channel Closing Transmission Time									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
RFTest software	/	V1.00	/	/	/				
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23				
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23				
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23				
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23				

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Page 10 of 290



Test Report Number: BTF230918R00204

WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Non-Occupancy Period Test								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
RFTest software	/	V1.00	/	/	/			
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23			
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23			
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23			
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23			
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23			
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23			

DFS Detection Thresholds							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23		

Band edge emissions (Radiated)										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23					
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23					

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Test Report Number: BTF230918R00204

REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
SKET	PCI-GPIB	1	/	/
SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
SKET	PCI-GPIB	/	/	/
SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
Frad	FA-03A2 RE+	/	/	/
SKET	PCI-GPIB	/	/	/
SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27
	REBES Talent SKET SCHWARZBECK ROHDE&SCHWA RZ ROHDE&SCHWA RZ SKET SCHWARZBECK SCHWARZBECK Frad SKET	REBES TalentUF2-NMNM-2.5mSKETPCI-GPIBSCHWARZBECKBBHA9170ROHDE&SCHWA RZESCI7ROHDE&SCHWA RZFSQ40SKETPCI-GPIBSCHWARZBECKBBV9718DSCHWARZBECKBBHA9120DFradFA-03A2 RE+SKETPCI-GPIB	REBES TalentUF2-NMNM-2.5m21101573SKETPCI-GPIB/SCHWARZBECKBBHA917001157ROHDE&SCHWA RZESCI7101032ROHDE&SCHWA RZFSQ40100010SKETPCI-GPIB/SCHWARZBECKBBV9718D00008SCHWARZBECKBBHA9120D2597FradFA-03A2 RE+/SKETPCI-GPIB/	REBES Talent UF2-NMNM-2.5m 21101573 2022-11-24 SKET PCI-GPIB / / SCHWARZBECK BBHA9170 01157 2021-11-28 ROHDE&SCHWA RZ ESCI7 101032 2022-11-24 ROHDE&SCHWA RZ FSQ40 100010 2022-11-24 SKET PCI-GPIB / / SKET PCI-GPIB / / SKET PCI-GPIB / / SKET PCI-GPIB / / SCHWARZBECK BBV9718D 00008 2023-03-24 SCHWARZBECK BBHA9120D 2597 2022-05-22 Frad FA-03A2 RE+ / / SKET PCI-GPIB / /

Undesirable emission Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

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Undesirable emission limits (above 1GHz)										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23					
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23					
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/					
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27					
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23					
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23					
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/					
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23					
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21					
EZ_EMC	Frad	FA-03A2 RE+	/	/	/					
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/					
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27					



4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	

Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 95.70%)
-------------------	--

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Description
Mode 1	802.11a
Mode 2	802.11n20
Mode 3	802.11n40
Mode 4	802.11ac20
Mode 5	802.11ac40
Mode 6	802.11ac80
Mode 7	802.11ax20
Mode 8	802.11ax40
Mode 9	802.11ax80
Mode 10	802.11ax160

Note:

(1) The measurements are performed at the highest, lowest available channels.

(2) The EUT use new battery.

(3) Record the worst case of each test item in this report.

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Test		*#9646633#*									
program											
Mada	Test Frequency (MHz)										
Mode					NCB: 20	OMHz					
000 44 -	5180	5240	5260	5320	5500	5700	5745	5825			
802.11a	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
000 44.	5180	5240	5260	5320	5500	5700	5745	5825			
802.11n	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
000 11	5180	5240	5260	5320	5500	5700	5745	5825			
802.11ac	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
000 44	5180	5240	5260	5320	5500	5700	5745	5825			
802.11ax	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
					NCB: 40	MHz					
000 11-	5190	5230	5270	5310	5510	5670	5755	5795			
802.11n	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
000 44	5190	5230	5270	5310	5510	5670	5755	5795			
802.11ac	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
000 11 av	5190	5230	5270	5310	5510	5670	5755	5795			
802.11ax	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz			
					NCB: 80	MHz					
000 44	5210	5290	5530	5610	5775						
802.11ac	MHz	MHz	MHz	MHz	MHz						
000 44	5210	5290	5530	5610	5775						
802.11ax	MHz	MHz	MHz	MHz	MHz						
					CB: 16	0MHz					
000.44	5250	5570									_
802.11ax	MHz	MHz									

4.4 Table of Parameters of Text Software Setting

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.



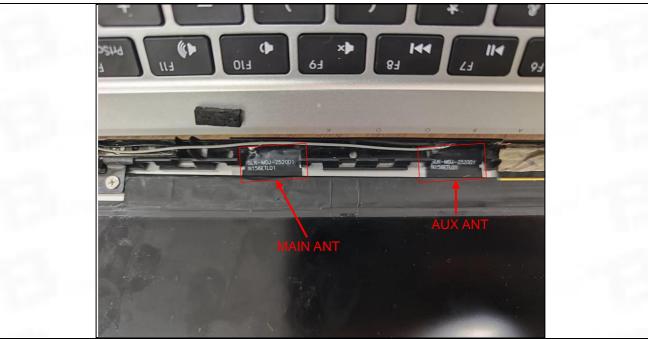
5 Evaluation Results (Evaluation)

5.1 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.

5.1.1 Conclusion:



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6 Radio Spectrum Matter Test Results (RF)

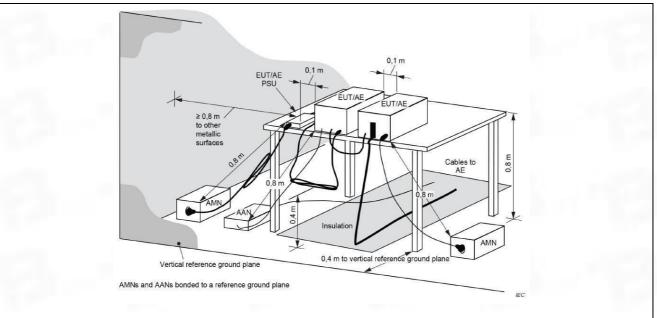
6.1 Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)				
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices				
	Frequency of emission (MHz)	Conducted limit (dBµV) Quasi-peak Average			
Test Limit:	0.15-0.5	66 to 56*	56 to 46*		
Test Linnt.	0.5-5	56	46		
	5-30	60	50		
	*Decreases with the logarithm of t	he frequency.			

6.1.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.5 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

6.1.2 Test Setup Diagram:

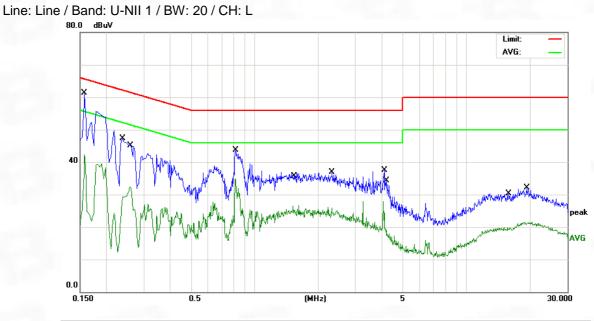


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6.1.3 Test Data:

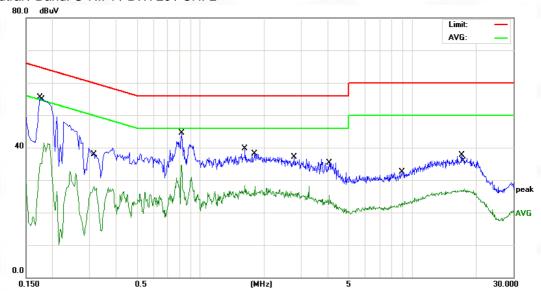


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
ĺ	1	*	0.1580	50.85	10.45	61.30	65.56	-4.26	QP
	2		0.1580	31.92	10.45	42.37	55.56	-13.19	AVG
	3		0.2380	36.84	10.46	47.30	62.16	-14.86	QP
ĺ	4		0.2620	21.42	10.46	31.88	51.36	-19.48	AVG
ľ	5		0.8100	24.29	10.54	34.83	46.00	-11.17	AVG
	6		0.8139	33.08	10.54	43.62	56.00	-12.38	QP
ĺ	7		1.5220	15.84	10.63	26.47	46.00	-19.53	AVG
	8		2.3260	26.23	10.71	36.94	56.00	-19.06	QP
-	9		4.0620	17.21	10.73	27.94	46.00	-18.06	AVG
ĺ	10		4.1940	23.63	10.73	34.36	56.00	-21.64	QP
	11		15.6940	8.79	11.18	19.97	50.00	-30.03	AVG
	12		19.2260	21.12	11.07	32.19	60.00	-27.81	QP

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Line: Neutral / Band: U-NII 1 / BW: 20 / CH: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1740	45.03	10.45	55.48	64.76	-9.28	QP
2		0.1819	31.10	10.45	41.55	54.39	-12.84	AVG
3		0.3140	17.59	10.48	28.07	49.86	-21.79	AVG
4		0.8139	33.91	10.54	44.45	56.00	-11.55	QP
5		0.8139	24.14	10.54	34.68	46.00	-11.32	AVG
6		1.6260	29.03	10.65	39.68	56.00	-16.32	QP
7		1.8180	17.42	10.68	28.10	46.00	-17.90	AVG
8		2.7780	26.29	10.72	37.01	56.00	-18.99	QP
9		4.0580	14.49	10.73	25.22	46.00	-20.78	AVG
10		8.9420	21.60	10.81	32.41	60.00	-27.59	QP
11		17.1740	26.55	11.13	37.68	60.00	-22.32	QP
12		17.6220	16.22	11.12	27.34	50.00	-22.66	AVG

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6.2 Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Method:	ANSI C63.10-2013 section 12.2 (b)
Test Limit:	No limits, only for report use.
Procedure:	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

6.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.5 °C		
Humidity:	50.6 %		
Atmospheric Pressure:	1010 mbar	100 million (1990)	

6.2.2 Test Result: (Meet requirements)

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6.3 Maximum conducted output power

		47 CFR Part 15.407(a)(1)(i)
		47 CFR Part 15.407(a)(1)(ii)
Test Requirement:		47 CFR Part 15.407(a)(1)(iii)
		47 CFR Part 15.407(a)(1)(iv)
		47 CFR Part 15.407(a)(2)
-	T (N (4))	47 CFR Part 15.407(a)(3)(i)
_	Test Method:	ANSI C63.10-2013, section 12.3
		For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
		For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
		For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power.
	Test Limit:	For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
		For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
		For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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Procedure: frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing el SW / 2, so that narrowband signals are not lost between frequency bins.) e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level, then the trigger shall be set to "free run." h) Trace average sheat		
Procedure: If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, ornidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so that narrowband signals are not lost between frequency bins.) e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces i		For the band 5.725-5.850 GHz, the maximum conducted output power over the
Procedure: maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 x span / RBW]. (This gives bin-to-bin spacing << RBW / 2, so		
Procedure: directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
Procedure: However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so that narrowband signals are not lost between frequency bins.)		
Procedure: transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 x span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
Procedure: corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
Procedure: applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so that narrowband signals are not lost between frequency bins.)		corresponding reduction in transmitter conducted power. Fixed, point-to-point
Procedure: information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 x span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		operations exclude the use of point-to-multipoint systems, omnidirectional
Procedure: installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 x span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
directional antennas are used exclusively for fixed, point-to-point operations. Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 x span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
Procedure: Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 x span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
 b) Set RBW = 1 MHz. c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so that narrowband signals are not lost between frequency bins.) e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW 		
c) Set VBW >= 3 MHz. d) Number of points in sweep >= [2 x span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so		
 d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing <= RBW / 2, so that narrowband signals are not lost between frequency bins.) e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW 		,
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Procedure:that narrowband signals are not lost between frequency bins.) e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		
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Procedure: enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		
Procedure: only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		
Procedure: level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		
Procedure: entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		
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 at duty cycle >= 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW 	Procedure.	
control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		,
then the trigger shall be set to "free run."h) Trace average at least 100 traces in power averaging (rms) mode.i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		
h) Trace average at least 100 traces in power averaging (rms) mode.i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW		
of the element		i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW
		of the signal
using the instrument's band power measurement function, with band limits set		
equal to the		
EBW or OBW band edges. If the instrument does not have a band power function,		
then sum the		
spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99%		
OBW of the spectrum.		
631 FUT Operation:	631 EILT Operation	

6.3.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.5 °C		
Humidity:	50.6 %		
Atmospheric Pressure:	1010 mbar		

6.3.2 Test Data:

Please Refer to Appendix for Details.



6.4 Power spectral density

	47 CFR Part 15.407(a)(1)(i)			
	47 CFR Part 15.407(a)(1)(ii)			
Test Requirement:	47 CFR Part 15.407(a)(1)(iii)			
rest requirement.	47 CFR Part 15.407(a)(1)(iv)			
	47 CFR Part 15.407(a)(2)			
	47 CFR Part 15.407(a)(3)(i)			
Test Method:	ANSI C63.10-2013, section 12.5			
	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			
	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			
	For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.			
Test Limit:	Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.			
	Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.			
	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.			
	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.			
	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			
	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter			

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Page 23 of 290



	conducted power.
	Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
	a) Create an average power spectrum for the EUT operating mode being tested by
	following the instructions in 12.3.2 for measuring maximum conducted output power using a spectrum
	analyzer or EMI receiver; that is, select the appropriate test method (SA-1, SA-2, SA-3, or their
	respective alternatives) and apply it up to, but not including, the step labeled, "Compute
	power" (This procedure is required even if the maximum conducted output power
	 measurement was performed using the power meter method PM.) b) Use the peak search function on the instrument to find the peak of the spectrum. c) Make the following adjustments to the peak value of the spectrum, if applicable: 1) If method SA-2 or SA-2A was used, then add [10 log (1 / D)], where D is the duty
	cycle, to the peak of the spectrum.2) If method SA-3A was used and the linear mode was used in step h) of 12.3.2.7, add
Procedure:	1 dB to the final result to compensate for the difference between linear averaging and
	power averaging.
	 d) The result is the PPSD. e) The procedure in item a) through item c) requires the use of 1 MHz resolution bandwidth to
	satisfy the 1 MHz measurement bandwidth specified by some regulatory authorities. This
	requirement also permits use of resolution bandwidths less than 1 MHz "provided that the
	measured power is integrated to show the total power over the measurement bandwidth" (i.e.,
	1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated
	over 1 MHz bandwidth, the following adjustments to the procedures apply: 1) Set RBW $>= 1 / T$, where T is defined in 12.2 a).
	 2) Set VBW >= [3 x RBW]. 3) Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Data:

Please Refer to Appendix for Details.

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Page 24 of 290



6.5 Emission bandwidth and occupied bandwidth

	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	
	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Test Method:	ANSI C63.10-2013, section 6.9.3 & 12.4
	KDB 789033 D02, Clause C.2
	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Procedure:	Immund of User Weights and the entry of the

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99.5% 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 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).
6 dB emission bandwidth:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 >= RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the
frequencies associated with the two outermost amplitude points (upper and lower
frequencies) that are attenuated by 6 dB relative to the maximum level measured
in the fundamental emission.

6.5.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.5 °C		
Humidity:	50.6 %		
Atmospheric Pressure:	1010 mbar	and the second se	

6.5.2 Test Data:

Please Refer to Appendix for Details.



6.6 Band edge emissions (Radiated)

	47 CFR Part 15.407(b)					
Test Requirement:		47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(4)				
lest Requirement.	47 CFR Part 15.407(b)					
	47 CFR Part 15.407(b)	47 CFR Part 15.407(b)(10)				
Test Method:	ANSI C63.10-2013, se		.7.6	and the second sec		
		ting in the 5.15-5.25 GH		ssions outside of the		
		nall not exceed an e.i.r.				
	For transmitters operat 5.15-5.35 GHz band sl	ting in the 5.25-5.35 GH nall not exceed an e.i.r.				
	For transmitters operat	ting solely in the 5.725-	5.850 GHz band	ł:		
	All emissions shall be l					
		e increasing linearly to				
		and from 25 MHz above				
		.6 dBm/MHz at 5 MHz				
	from 5 MHz above or b					
	dBm/MHz at the band		broading intearry			
	MHz	MHz	MHz	GHz		
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15		
	¹ 0.495-0.505	16.69475-16.69525		5.35-5.46		
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75		
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5		
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2		
	4.20725-4.20775	73-74.6	1645.5-1646. 5	9.3-9.5		
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7		
	6.26775-6.26825	6.26775-6.26825108-121.941718.8-1722.13.25-13.4				
Test Limit:		2				
	6.31175-6.31225	123-138	2200-2300	14.47-14.5		
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2		
	8.362-8.366	156.52475-156.525	2483.5-2500	17.7-21.4		
	0.07005.0.00075	25	0000 0000	00.04.00.40		
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12		
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0		
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8		
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5		
	12.57675-12.57725	322-335.4	3600-4400	(²)		
	13.36-13.41					
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.					
	² Above 38.6					
	u	The field strength of emissions appearing within these frequency bands shall not				
	exceed the limits shown in § 15.209. At frequencies equal to or less than 1000					
		MHz, compliance with the limits in § 15.209shall be demonstrated using				
		entation employing a CI				
		with the emission limit				
	based on the average					
	15.35apply to these me					
	Except as provided elsewhere in this subpart, the emissions from an intentional					

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Test Report Number: BTF230918R00204



	radiator shall not exceed	the field strength levels sp	ecified in the following table:				
	Frequency (MHz)	Field strength	Measurement				
		(microvolts/meter)	distance				
			(meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	2400/F(kHz)	30				
	1.705-30.0						
		30 100 **	30				
	30-88		3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	Above 1GHz:						
	above the ground at a 3 r degrees to determine the	neter fully-anechoic chamb position of the highest rad	of a rotating table 1.5 meters ber. The table was rotated 360 liation. rence-receiving antenna, which				
	was mounted on the top of	of a variable-height antenn	a tower.				
	 c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then 						
	the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified						
	Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit						
	specified, then testing course reported. Otherwise the e	uld be stopped and the pea missions that did not have	ak values of the EUT would be				
Procedure:	in a data sheet.		annel, the Highest channel.				
		ments are performed in X,					
			which it is the worst case.				
		es until all frequencies me					
		able Loss+ Antenna Factor	r- Preamp Factor				
	2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The						
	points marked on above plots are the highest emissions could be found when						
		nts had been displayed. T					
	emissions from the radiator which are attenuated more than 20dB below the limit need not be reported						
	need not be reported. 3. As shown in this section, for frequencies above 1GHz, the field strength limits						
			d strength of any emission shall				
			pecified above by more than 20				
			sions whose peak level is lower				
		ly the peak measurement					
	1 / The disturbance above	1 VI 'LLT WORD VORV LOW ODD					
			the harmonics were the				
			he above harmonics were the				

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %

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Page 28 of 290



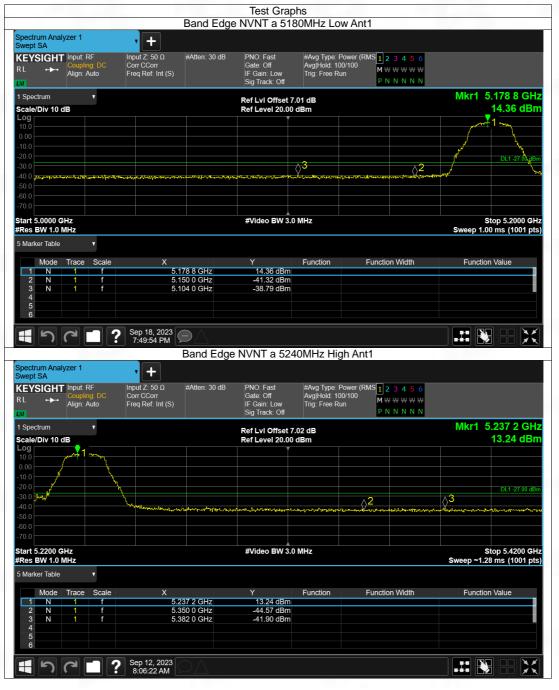
Atmospheric Pressure: 1010 mbar 6.6.2 Test Setup Diagram:

To power supply

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6.6.3 Test Data:



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		Band Edge	NVNT a 526	0MHz Low A	nt1	
Spectrum Analyzer 1 Swept SA	+					
KEYSIGHT Input: RF R L →→ Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Avg Hold: 100/100 Trig: Free Run	(RMS <mark>123456</mark> M₩₩₩₩₩₩ PNNNNN	
1 Spectrum 🔻			Ref Lvi Offset 7.			Mkr1 5.263 2 GHz
Scale/Div 10 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -50.0 -50.0	ana marana	der republikanski der	Ref Level 20.00	dBm	talanda Mira Brownstanda Proved	13.27 dBm
-70.0 Start 5.0800 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.2800 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale 1 N 1 f 2 N 1 f 3 N 1 f	5.1	63 2 GHz 50 0 GHz 83 0 GHz	Y 13.27 dBm -43.51 dBm -38.17 dBm	Function	Function Width	Function Value
	Sep 12, 2023 8:09:43 AM					👪 🔚 💥
		Band Edge	NVNT a 532	0MHz High A	int1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT RL + Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Avg Hold: 100/100 Trig: Free Run	(RMS <u>1</u> 23456 M₩₩₩₩₩₩ PNNNNN	
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.322 8 GHz 13.22 dBm
Log 10.0 0.00 -10.0						
-20.0 -30.0 -40.0 -50.0	2	of along the state of the	สปักษาสารสารสารสาร	where grand was been all	นสาวการสารที่ได้งารกับเราะาร์สุน	DL1-27.00 dfm
-60.0						
Start 5.3000 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.5000 GHz Sweep ~1.28 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale 1 N 1 f 2 N 1 f 3 N 1 f 4	5.3	22 8 GHz 50 0 GHz 94 0 GHz	Y 13.22 dBm -43.73 dBm -39.09 dBm	Function	Function Width	Function Value
	Sep 12, 2023 8:12:00 AM					

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		Band Edge	NVNT a 550	0MHz Low /	Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF RL ↔ Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Powe Avg Hold: 100/10 Trig: Free Run	er (RMS 1 2 3 4 5 6 00 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum 🔹			Ref LvI Offset 7.			Mkr1 5.502 8 GHz
Scale/Div 10 dB			Ref Level 20.00	dBm		13.98 dBm
0.00						
-10.0 -20.0						DL1 -27.0% dBm
-30.0						And have
-40.0	ามให้เขาจะมีของได้จะได้จะได้จะได้จะได้จะได้จะได้จะได้จะ	hardestate of the particulation of the second se	unan marina an a		69-12/~~17/2/~2~~9/2 -9/2 9/2	
-70.0						
Start 5.3200 GHz #Res BW 1.0 MHz	· · · · ·		#Video BW 3.0	MHz		Stop 5.5200 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale	X	02 8 GHz	Y 13.98 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.4	170 0 GHz 169 2 GHz	-43.31 dBm -40.73 dBm			
4 5	0.4		-40.75 dBill			
6						
4501?	Sep 12, 2023 8:14:21 AM					
		Band Edge	e NVNT a 570	0MHz High	Ant1	
Spectrum Analyzer 1 Swept SA	• +					
Coupling: DC	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Powe Avg Hold: 100/10 Trig: Free Run	er (RMS 1 2 3 4 5 6 M W W W W W P N N N N N	
RL + Coupling: DC Align: Auto 1 Spectrum v	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7.	Avg Hold: 100/10 Trig: Free Run 31 dB	M ₩ ₩ ₩ ₩	Mkr1 5.696 6 GHz
RL Coupling DC Align: Auto Scale/Div 10 dB Log	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 100/10 Trig: Free Run 31 dB	M ₩ ₩ ₩ ₩	Mkr1 5.696 6 GHz 14.85 dBm
Align: Auto	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7.	Avg Hold: 100/10 Trig: Free Run 31 dB	M ₩ ₩ ₩ ₩	
RL →→ Coupling DC Aign: Auto VI 1 Spectrum V Scale/Div 10 dB 100 0.00 0	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7.	Avg Hold: 100/10 Trig: Free Run 31 dB	M ₩ ₩ ₩ ₩	
RL Coupling DC Align: Auto CV Scale/Div 10 dB CV Scale/Div 10 dB CV CV CV CV CV CV CV CV CV C	Corr CCorr Freq Ref. Int (S)	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7.	Avg Hold: 100/10 Trig: Free Run 31 dB	M ₩ ₩ ₩ ₩	14.85 dBm
RL Coupling DC Aign: Auto Scale/Div 10 dB Log 0.00 -10 0 -20 0 -20 0	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7.	Avg Hold: 100/10 Trig: Free Run 31 dB	M ₩ ₩ ₩ ₩	14.85 dBm
RL → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ▼ 0.0 ↓ -10.0 ↓ -20.0 ↓ -30.0 ↓ -50.0 ↓ -60.0 ↓	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7. Ref Level 20.00	Avg Hold: 100/1C Trig: Free Run 31 dB dBm	M ₩ ₩ ₩ ₩	14.85 dBm DL1-27.00 dBm
RL →→ Coupling DC Atign: Auto Scale/Div 10 dB Log 0.00	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7.	Avg Hold: 100/1C Trig: Free Run 31 dB dBm	M ₩ ₩ ₩ ₩	14.85 dBm DL1-27.00 dBm
RL → Coupling DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ▼ 100 1 0.00 1 -10.0 1 -20.0 1 -30.0 1 -40.0 - -50.0 - -70.0 - Start 5.6800 GHz -	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 7. Ref Level 20.00	Avg Hold: 100/1C Trig: Free Run 31 dB dBm	M ₩ ₩ ₩ ₩	14.85 dBm
RL ••• Coupling DC Align: Auto 1 Spectrum • Scale/Div 10 dB • 100 • • 0.00 • • 100 • • 0.00 • • 0.00 • • 0.00 • • 200 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • • -00 • •	Corr CCorr Freq Ref: Int (S)	3	Ref Level 20.00 Ref Level 20.00 #Video BW 3.0	Avg Hold: 100/1C Trig: Free Run 31 dB dBm	M ₩ ₩ ₩ ₩	14.85 dBm
RL → Coupling DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ▼ 100 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 30.0 1 -70.0 - Start 5.6800 GHz + #Res BW 1.0 MHz 5 5 Marker Table ✓ 1 1 2 N 1 1	Corr CCorr Freq Ref: Int (S)	3 	Alte: Off IF Gain: Low Sig Track: Off Ref Level 20.00 WWW/WWWWWWWWW #Video BW 3.0	Avg Hold: 100/1C Trig: Free Run 31 dB dBm MHz		DL1:27.00 dBm
RL → Coupling DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ▼ Log 1 1 0.00 0.00 1 0.00 0.00 1 0.00 0.00 1 0.00 0.00 1 30.0 0 0 30.0 0 0 30.0 0 0 30.0 0 0 30.0 0 0 50.0 0 0 -70.0 0 0 Start 5.6800 GHz ▼ #Res BW 1.0 MHz 5 5 Marker Table ▼ 1 N 1 2 N 1 f	Corr CCorr Freq Ref: Int (S)	3 	Acte: Off IF Gain: Low Sig Track: Off Ref Lvi Offset 7. Ref Level 20.00 # #Video BW 3.0 Y 14.85 dBm	Avg Hold: 100/1C Trig: Free Run 31 dB dBm MHz		14.85 dBm DL1 - 27.00 dBm DL1 - 27.00 dBm Stop 5.8800 GHz Sweep 1.00 ms (1001 pts)
RL Coupling DC Align: Auto 1 Spectrum Scale/Div 10 dB Log 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 200 1 500 1 500 1 500 1 500 1 500 1 500 1 500 1 500 1 500 1 5 1 600 1 5 1 1 1 2 1 1 1 2 1 1 1	Corr CCorr Freq Ref: Int (S)	3 	Alte: Off IF Gain: Low Sig Track: Off Ref Level 20.00 WWW/WWWWWWWWWW #Video BW 3.0	Avg Hold: 100/1C Trig: Free Run 31 dB dBm MHz		14.85 dBm DL1 - 27.00 dBm DL1 - 27.00 dBm Stop 5.8800 GHz Sweep 1.00 ms (1001 pts)

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	Band Edge	NVNT a 574	5MHz Low	Ant1	
Spectrum Analyzer 1 Swept SA	+				
KEVSIGHT Input: RF Inpu	ut Z: 50 Ω #Atten: 30 dB	PNO: Fast Gate: Off	#Avg Type: Powe Avg Hold: 100/10	er (RMS <mark>123456</mark>	
	g Ref: Int (S)	IF Gain: Low Sig Track: Off	Trig: Free Run	₩₩₩₩₩₩ ₽ N N N N N	
1 Spectrum	I.	Ref LvI Offset 7.	27 dB		Mkr1 5.742 6 GHz
Scale/Div 10 dB		Ref Level 20.00 o	dBm		12.77 dBm
10.0 Trace 1 Pass					
-10.0					
-30.0					
-50.0	forgen of hear had a bundle of the fight a surger to plant and	Ŋ, AJNA (MI) AJN AJN AN	مريوريهما الإسلوك معاكري الألوا الالها	trapterseal literarching litrar and and the second s	
-60.0					
Start 5.5650 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz		Stop 5.7650 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table					
Mode Trace Scale	X	Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.742 6 GHz 5.725 0 GHz	12.77 dBm -39.39 dBm			
2 N 1 f 3 N 1 f	5.724 4 GHz	-38.62 dBm			
4					
5 6					
	p 12, 2023 18:59 AM				
	Band Edge	NVNT a 582	5MHz High	Ant1	
Spectrum Analyzer 1 Swept SA	+				
Coupling: DC Corr	ut Z: 50 Ω #Atten: 30 dB r CCorr	PNO: Fast Gate: Off	#Avg Type: Power Avg Hold: 100/10	er (RMS 1 2 3 4 5 6	
RL + Align: Auto Free	q Ref: Int (S)	IF Gain: Low Sig Track: Off	Trig: Free Run	M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum		Ref LvI Offset 7.			Mkr1 5.823 4 GHz
Scale/Div 10 dB		Ref Level 20.00 o	dBm		12.37 dBm
10.0 Trace 1 95					
-10.0					
-30.0	, ¢ ²			<u>}3</u>	
-40.0 -50.0	-	wate-plante-and and a star	()เหมาะพระสาราสาราสาราสาราสาราสาราสาราสาราสาราสา	whentherman	๚๛๛๛๚๛๛๛๚๛๛๛๚๛๛๛๚๚๛๛๛๚
-60.0					
-60.0					
-70.0		#Video BW 3.0	MHz		Stop 6.0050 GHz Sweep 1.00 ms (1001 pts)
-70.0		#Video BW 3.0	MHz		Stop 6.0050 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table V Mode Trace Scale	X	Y	MHz	Function Width	
270.0 Start 5.8050 GHz #Res BW 1.0 MHz 5 Marker Table Mode Trace Scale 1 N 1 f	X 5.823 4 GHz 5.850 0 GHz	Y 12.37 dBm		Function Width	Sweep 1.00 ms (1001 pts)
-70.0 Start 5.8050 GHz #Res BW 1.0 MHz 5 Marker Table v Mode Trace Scale 1 N 1 f 2 N 1 f 3 N 1 f	5.823 4 GHz	Y		Function Width	Sweep 1.00 ms (1001 pts)
-70 0 Start 5.8050 GHz #Res BW 1.0 MHz 5 Marker Table v Mode Trace Scale 1 N 1 f 2 N 1 f 3 N 1 f 4 5	5.823 4 GHz 5.850 0 GHz	Y 12.37 dBm -41.07 dBm		Function Width	Sweep 1.00 ms (1001 pts)
-70.0 Start 5.8050 GHz #Res BW 1.0 MHz 5 Marker Table Mode Trace Scale 1 N 1 f 2 N 1 f 3 N 1 f 4 5 6 5	5.823 4 GHz 5.850 0 GHz	Y 12.37 dBm -41.07 dBm		Function Width	Sweep 1.00 ms (1001 pts)

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	Band Edge NVNT n20	5180MHz Low	Ant1	
Spectrum Analyzer 1	0			
KEYSIGHT Input: RF Input Z: 50 Ω	#Atten: 30 dB PNO: Fast	#Avg Type: Power	(RMS <mark>1</mark> 23456	
RL ↔ Coupling: DC Corr CCorr Align: Auto Freq Ref: Int (S)	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 100/100 Trig: Free Run	M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum			PINNINI	Mkr1 5.176 2 GHz
Scale/Div 10 dB	Ref LvI Offset Ref Level 20.0			13.06 dBm
Log 10.0				1 <u>~~~</u>
-10.0				
-20.0				DL1-27.00 dBm
-30.0	๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	and a strategy and the	sturment and 2 rel	hand had
-50.0				
-70.0				
Start 5.0000 GHz #Res BW 1.0 MHz	#Video BW 3	.0 MHz		Stop 5.2000 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹				
Mode Trace Scale X	Y	Function	Function Width	Function Value
2 N 1 f 5.	176 2 GHz 13.06 dBr 150 0 GHz -40.90 dBr	n		
4	113 0 GHz -39.54 dBr	1		
5 6				
Sep 12, 2023 8-23-23 AM	\frown \land			
E 8:23:23 AM	Band Edge NVNT n20 5	240MUz Lligh	A pet 1	
Spectrum Analyzer 1	Band Edge NVNT 1120 3		Anti	
Swept SA The second se	#Atten: 30 dB PNO: Fast	#Ava Type: Power	(RMS <mark>123456</mark>	
RL ↔ Coupling: DC Corr CCorr Align: Auto Freq Ref: Int (S)	Gate: Off IF Gain: Low	Avg Hold: 100/100 Trig: Free Run	M W W W W W	
	Sig Track: Off		PNNNN	
1 Spectrum v Scale/Div 10 dB	Ref LvI Offset Ref Level 20.0			Mkr1 5.237 2 GHz 12.81 dBm
0.00				
-10.0				DL1 -27.00 dBm
-30.0 2017	ماهدا المردا المراجع الم	Jor Herel Marshare		
-50.0				
-70.0				
Start 5.2200 GHz #Res BW 1.0 MHz	#Video BW 3	.0 MHz		Stop 5.4200 GHz Sweep ~1.28 ms (1001 pts)
5 Marker Table v				
Mode Trace Scale X	Y	Function	Function Width	Function Value
2 N 1 f 5.	237 2 GHz 12.81 dBr 350 0 GHz -44.53 dBr	n		
3 N 1 f 5.	387 4 GHz -41.11 dBr			
5				
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3:25:42 AM				

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	Bi	and Edge	NVNT n20 52	260MHz Lo	w Ant1	
Spectrum Analyzer 1 Swept SA	+					
KEYSIGHT Input: RF RL Align: Auto		#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100/ Trig: Free Run	wer (RMS 1 2 3 4 5 6 100 M W W W W W P N N N N N	
1 Spectrum 🔻			Ref Lvl Offset 7.	06 d B		Mkr1 5.262 6 GHz
Scale/Div 10 dB			Ref Level 20.00	dBm		12.94 dBm
10.0						1
-10.0						
-20.0	3	<mark>2</mark>				DL1-27.00 dBm
-40.0 มนุกาษการการการการการการการการการการการการการก	un montal and	montra	der forder for the second start and the	has the managed sources	and the mark of the state of th	Alm ~~~
-60.0						
Start 5.0800 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.2800 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table V						
Mode Trace Scale	Х		Y	Function	Function Width	Function Value
1 N 1 f	5.26	2 6 GHz	12.94 dBm			
2 N 1 f 3 N 1 f		0 0 GHz 1 4 GHz	-40.44 dBm -39.02 dBm			
4 5						
6						
	Sep 12, 2023 8:27:59 AM					
	Ba	and Edge I	VVNT n20 53	20MHz Hig	jh Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF R L Coupling: DC Align: Auto Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100/ Trig: Free Run	wer (RMS 1 2 3 4 5 6 100 M W W W W W P N N N N N	
1 Spectrum ▼ Scale/Div 10 dB			Ref Lvi Offset 7. Ref Level 20.00			Mkr1 5.321 4 GHz 12.98 dBm
Log 10.0 10.0 1			Ţ.			
0.00						
-10.0	\					DL1 -27.00 dBm
-30.0 -40.0	<u> </u>					
-50.0	University of the second second	᠕᠈ᢀᡁ᠙ᢁ᠆ᠬ᠕ᡯᡗᠬ	and the second sec		managene may be and here the	กุฎ _{ราชส} ายการแกรง (แบบของระจาสุปฏิการกระกูปการ
-60.0						
Start 5.3000 GHz			#Video BW 3.0	MHz		Stop 5.5000 GHz
#Res BW 1.0 MHz						Sweep ~1.28 ms (1001 pts)
5 Marker Table v						
Mode Trace Scale	X 5.32	1 4 GHz	Y 12.98 dBm	Function	Function Width	Function Value
1 N 1 f 2 N 1 f 3 N 1 f	5.35	0 0 GHz	-42.71 dBm			
3 N 1 f	5.35	0 6 GHz	-40.36 dBm			
5						
1 500	Sep 12, 2023					
	8:30:17 AM					

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	Ba	nd Edae N	IVNT n20 55	00MHz Low An	nt1	
Spectrum Analyzer 1	• +					
	Input Z: 50 Ω #/	Atten: 30 dB	PNO: Fast	#Avg Type: Power (RN	MS <mark>123456</mark>	
	Corr CCorr Freq Ref: Int (S)		Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 100/100 Trig: Free Run	M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum V			Ref LvI Offset 7.			Mkr1 5.503 8 GHz 13.67 dBm
Scale/Div 10 dB			Ref Level 20.00	рвт		1
0.00						
-20.0						DL1-27.001dBm
-40.0 -50.0		canonal many les	ะา๛๛งใสโกรงรมุคงในและเปรียกกา	๛๚๛๛๛๛๚๛๛๛๚	www.www.www.	n hu
-60.0						
Start 5.3200 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.5200 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table						
Mode Trace Scale	X	° CU-	Y	Function F	Function Width	Function Value
1 N 1 f 2 N 1 f	5.470	8 GHz 0 GHz	13.67 dBm -41.11 dBm			
3 N 1 f 4 5	5.459	8 GHz	-40.06 dBm			
6						
■ ? ■ ?	Sep 12, 2023 8:32:23 AM					
	Bai	nd Edge N	VNT n20 57	00MHz High Ar	nt1	
Spectrum Analyzer 1 Swept SA	• +					
Coupling: DC	Input Z: 50 Ω #/ Corr CCorr Freq Ref: Int (S)	Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low	#Avg Type: Power (RN Avg Hold: 100/100 Trig: Free Run	MS <mark>123456</mark> M₩₩₩₩₩₩	
LXI			Sig Track: Off		PNNNNN	
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.704 2 GHz 14.33 dBm
10.0 10.0 10.0 1						
-10.0						
-20.0			<u>3</u>			DL1 -27.00 dBm
-40.0	when the second second	afweerstown (hereing	underweiterunget	hartharm-actors and market	hen war and the second	Multheresternestales and a second
-60.0						
Start 5.6800 GHz			#Video BW 3.0	MHz		Stop 5.8800 GHz
#Res BW 1.0 MHz 5 Marker Table						Sweep 1.00 ms (1001 pts)
Mode Trace Scale	Х		Y	Function F	Function Width	Function Value
1 N 1 f 2 N 1 f	5.704 5.725	2 GHz 0 GHz	14.33 dBm -42.55 dBm			
3 N 1 f 4	5.767	0 GHz	-39.73 dBm			
5 6						

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	Band Edge	NVNT n20 57	45MHz Lov	v Ant1	
Spectrum Analyzer 1					
KEYSIGHT Input: RF Input: Z: 50 R L ← Coupling: DC Corr CCorr Align: Auto Freq Ref: Input: Z: 50 Freq Ref: Input: Z: 50		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Avg Hold: 100/1 Trig: Free Run	er (RMS <mark>1</mark> 23456 00 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum v		Ref Lvl Offset 7.			Mkr1 5.746 0 GHz
Scale/Div 10 dB Log 10.0 Trace 1 Pass		Ref Level 20.00	dBm		11.86 dBm
0.00					
-20.0					
-30.0 -60.0 -60.0	nippmphatoodaaterateration, Partit	~www.tunusryfrat.~nthi	ueen marcally and a) Maanalatatatatatatatatatatatatatatatatata	2/
-70.0 Start 5.5650 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz		Stop 5.7650 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹					
Mode Trace Scale	X 5.746 0 GHz	Y 11.86 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.725 0 GHz 5.723 4 GHz	-39.02 dBm -37.70 dBm			
4 5 6					
E 5 C E ? Sep 12, 2 8:37:05	am [
Spectrum Analyzer 1	Band Edge I	NVNT n20 58	25MHz Hig	n Ant1	
KEYSIGHT Input: RF Input Z: 50		PNO: Fast	#Avg Type: Pow	rer (RMS 1 2 3 4 5 6	
RL + Coupling DC Align: Auto Freq Ref: In PASS		Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 100/1 Trig: Free Run	00 M₩₩₩₩₩₩ ₽ N N N N N	
1 Spectrum V Scale/Div 10 dB		Ref Lvi Offset 7. Ref Level 20.00			Mkr1 5.822 2 GHz 12.26 dBm
10.0 Trace 1 9 9 9					
-10.0					
-30.0					
-50.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	**************************************	an ine yet of the second s	Land and the second	المراجع والمراجعة والمراجعة والمرتبط والمراجع والمراجعة وال
-70.0					
Start 5.8050 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz		Stop 6.0050 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table v					
Mode Trace Scale	X 5.822 2 GHz	Y 12.26 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.850 0 GHz 5.986 8 GHz	-41.39 dBm -39.76 dBm			
4 5					
6					

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Page 37 of 290



	Band	Edge NVNT n40	5190MHz Lov	v Ant1	
Spectrum Analyzer 1 Swept SA	• +	Ū			
KEYSIGHT Input: RF RL ↔ Align: Auto	Input Z: 50 Ω #Atte Corr CCorr Freq Ref: Int (S)	n: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 100/1 Trig: Free Run	ver (RMS <mark>1</mark> 23456 00 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum v		Ref LvI Offse			Mkr1 5.182 4 GHz 11.31 dBm
Scale/Div 10 dB		Ref Level 20	.00 aBm	1	
0.00				for a second sec	
-20.0			<u>^2</u>		QL1 -27.00 dBm
-50.0 -40.0 -50.0		าสรุปในกรณ์ปุ่งประการที่สุปฏิสรุประวั <mark>สม</mark> ารสังปฏิรัตราย	howard and a marine	- Alexandre	Lanna
-60.0					
Start 5.0300 GHz #Res BW 1.0 MHz		#Video BW	3.0 MHz		Stop 5.2300 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻					
Mode Trace Scale	X 5.182 4 G	Y Hz 11.31 dB	Function	Function Width	Function Value
2 N 1 f 3	5.150 0 G				
4 5 6					
	Sep 12, 2023				
	9:00:19 AM	Edge NVNT n40	5230MHz Hia	h Ant1	
Spectrum Analyzer 1 Swept SA	+	Lagentini	0200111121119		
KEYSIGHT Input: RF	Input Z: 50 Ω #Atter	n: 30 dB PNO: Fast Gate: Off	#Avg Type: Pow Avg Hold: 100/1	ver (RMS 1 2 3 4 5 6	
RL + Align: Auto	Freq Ref: Int (S)	IF Gain: Low Sig Track: Off	Trig: Free Run	M W W W W P N N N N N	
1 Spectrum v		Ref LvI Offse			Mkr1 5.238 4 GHz
Scale/Div 10 dB	1	Ref Level 20	.00 dBm		10.55 dBm
0.00	we proposed in the second				
-20.0					DL1 -27.00 dBm
-40.0 -50.0		month which which which	¹² pr ^e gniphenh/1-westweitspeit,owgw		2 3
-60.0					
Start 5.1900 GHz #Res BW 1.0 MHz		#Video BW	3.0 MHz		Stop 5.3900 GHz
5 Marker Table v					Sweep 1.00 ms (1001 pts)
			Function	Function Width	
Mode Trace Scale	X	Y 10 55 dB			Function Value
1 N 1 f 2 N 1 f	5.238 4 G 5.350 0 G	Hz 10.55 dB Hz -43.29 dB	m m		Function Value
1 N 1 f 2 N 1 f 3 N 1 f 4 5	5.238 4 G	Hz 10.55 dB Hz -43.29 dB	m m		Function Value
1 N 1 f 2 N 1 f 3 N 1 f 4	5.238 4 G 5.350 0 G	Hz 10.55 dB Hz -43.29 dB	m m		Function Value

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Page 38 of 290



	Band Edge	e NVNT n40 52	270MHz Lov	v Ant1	
Spectrum Analyzer 1 Swept SA	• +				
KEVSIGHT Input RF	Input Z: 50 Ω #Atten: 30 dB	PNO: Fast	#Avg Type: Pow	rer (RMS 1 2 3 4 5 6 00 M W W W W W	
RL +>+ Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S)	Gate: Off IF Gain: Low	Avg Hold: 100/1 Trig: Free Run	N AA AA AA AA AA	
		Sig Track: Off		PNNNN	Mkr1 5.280 0 GHz
1 Spectrum V Scale/Div 10 dB		Ref LvI Offset 7 Ref Level 20.00			11.55 dBm
Log 10.0		ĭ		والمعادية المحاربة ال	1
0.00					
-10.0				and Contraction of the second s	لمربح المربح ا
-30.0 -40.0 -40.0 -40.0		untranscorpt percent of the	marina	monula	- Marine
-50.0					
-70.0					
Start 5.1100 GHz		#Video BW 3.0	MHz		Stop 5.3100 GHz
#Res BW 1.0 MHz 5 Marker Table					Sweep 1.00 ms (1001 pts)
Mode Trace Scale	X	Y	Function	Function Width	Function Value
1 N 1 f	5.280 0 GHz	11.55 dBm	Function	Function Wiath	Function value
2 N 1 f 3 N 1 f	5.150 0 GHz 5.120 4 GHz	-42.47 dBm -39.11 dBm			
4 5					
6					
€ □ ? ⊂ ₽	Sep 12, 2023 9:05:30 AM				
	Band Edge	e NVNT n40 53	10MHz Hig	h Ant1	
Spectrum Analyzer 1 Swept SA	• +				
KEYSIGHT Input: RF	Input Z: 50 Ω #Atten: 30 dB Corr CCorr	PNO: Fast Gate: Off	#Avg Type: Pow Avg Hold: 100/1	rer (RMS 1 2 3 4 5 6	
RL +++ Align: Auto	Freq Ref: Int (S)	IF Gain: Low Sig Track: Off	Trig: Free Run	00 <u>M₩₩₩₩₩</u> ₽NNNN	
1 Spectrum		Ref LvI Offset 7	00 dB		Mkr1 5.319 2 GHz
Scale/Div 10 dB		Ref Level 20.00			10.00 dBm
10.0					
-10.0					
-20.0		A3			DL1 -27.00 dBm
-40.0	hand look and	her & march tom the monorality	۳۹. AphletsChall-carolymour Aph		Landraghteralterafter
-50.0					
-70.0					
Start 5.2700 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz		Stop 5.4700 GHz Sweep ~1.28 ms (1001 pts)
5 Marker Table					
Mode Trace Scale	X	Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.319 2 GHz 5.350 0 GHz	9.998 dBm -37.01 dBm			
3 N 1 f	5.350 2 GHz	-35.39 dBm			
5					
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4 h C L ?	Sep 12, 2023 9:07:52 AM				

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Page 39 of 290



	Band Ed	dge NVNT n40 5	510MHz Lov	w Ant1	
Spectrum Analyzer 1 Swept SA	• +				
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto	Input Z: 50 Ω #Atten: 30 Corr CCorr Freq Ref: Int (S)	0 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Avg Hold: 100/1 Trig: Free Run	ver (RMS 1 2 3 4 5 6 100 M W W W W W P N N N N N	
1 Spectrum		Ref LvI Offset			Mkr1 5.498 8 GHz
Scale/Div 10 dB		Ref Level 20.0	0 dBm	∳1	9.16 dBm
0.00				por and a second	And the second s
-10.0			A3a	and a second	NgL1 -27.00 dBm
-30.0 -40.0 -50.0 -60.0	าระไร้รถผู้ปกับก _{ระ} ใหนที่-รับบูรรมูกร _{ับส} าร์-เขริญระม	wfwestlyksstrywtel ^{l ve} rs ^{we} rty	www.	Manana A	harrow have
-70.0 Start 5.3500 GHz #Res BW 1.0 MHz		#Video BW 3	0 MHz		Stop 5.5500 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻					
Mode Trace Scale	X 5.498 8 GHz	Y 9.160 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.498 8 GHz 5.470 0 GHz 5.458 0 GHz	-40.48 dBm -36.37 dBm			
4 5 6	0.400 0 0112	-50.57 4511			
4502?					
Spectrum Analyzer 1		lge NVNT n40 5	670MHz Hig	h Ant1	
Swept SA	Γ Input Z: 50 Ω #Atten: 30) dB PNO: Fast	#Aug Tupo: Dou	ver (RMS 1 2 3 4 5 6	
RL + Align: Auto	Corr CCorr Freq Ref: Int (S)	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 100/1 Trig: Free Run	100 M W W W W W P N N N N N	
1 Spectrum ▼ Scale/Div 10 dB		Ref LvI Offset Ref Level 20.0			Mkr1 5.681 2 GHz 12.91 dBm
10.0	men promover 1. vy				
-10.0	h h				
-20.0		mm 2	3		DL1 -27.00 dBm
-40.0			or and the fail of the second second	the Manager and Mana	al-an-tan-an-an-al-an-an-an-an-an-an-an-an-an-an-an-an-an-
-60.0					
Start 5.6300 GHz #Res BW 1.0 MHz		#Video BW 3	0 MHz		Stop 5.8300 GHz
5 Marker Table v					Sweep 1.00 ms (1001 pts)
Mode Trace Scale	X	Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f 3 N 1 f	5.681 2 GHz 5.725 0 GHz	12.91 dBm -39.50 dBm			
3 N 1 f 4 5 6	5.741 0 GHz	-36.75 dBm			

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	Band Edge	e NVNT n40 57	55MHz Lov	w Ant1	
Spectrum Analyzer 1 Swept SA	• +				
RL +++ Coupling: DC	Input Z: 50 Ω #Atten: 30 dB Corr CCorr	PNO: Fast Gate: Off	#Avg Type: Pov Avg Hold: 100/1	wer (RMS 1 2 3 4 5 6	
Align: Auto	Freq Ref: Int (S)	IF Gain: Low	Trig: Free Run	M ₩ ₩ ₩ ₩ ₩ P N N N N N	
		Sig Track: Off		PNNNNN	
1 Spectrum V		Ref LvI Offset 7.			Mkr1 5.763 0 GHz
Scale/Div 10 dB		Ref Level 20.00	dBm		9.68 dBm
10.0 Frace 1 Pass					Www.hall
-10.0		and the second s			
-20.0				A 3 2 m	Next Section 1
-30.0			moundance	2 ³ 2 ⁴	Why the how
-50.0	And and a second a sublement of a second				
-60.0					
Start 5.5950 GHz			B411-		04
#Res BW 1.0 MHz		#Video BW 3.0	MHZ		Stop 5.7950 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻					
Mode Trace Scale	X	Y	Function	Function Width	Function Value
1 N 1 f	5.763 0 GHz	9.683 dBm	FUNCTION		
2 N 1 f 3 N 1 f	5.725 0 GHz 5.721 8 GHz	-37.38 dBm -36.10 dBm			
4	0.1210 0112	-00.10 dbiii			
5					
	Sep 12, 2023				
	9:15:09 AM				
	Band Edge	e NVNT n40 57	'95MHz Hig	h Ant1	
Spectrum Analyzer 1 Swept SA	• +				
KEYSIGHT Input: RF Coupling: DC	Input Z: 50 Ω #Atten: 30 dB Corr CCorr	Gate: Off	#Avg Type: Pov Avg Hold: 100/1	wer (RMS 1 2 3 4 5 6	
RL + Align: Auto	Freq Ref: Int (S)	IF Gain: Low Sig Track: Off	Trig: Free Run	M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum		0			Mkr1 5.804 4 GHz
Scale/Div 10 dB		Ref LvI Offset 7. Ref Level 20.00			8.38 dBm
Log	<u> </u>				
10.0 Frace 7 Pass	may show we marked				
-10.0					
-20.0			<mark>3</mark>		
-40.0 manuf		under more from por	and a second	مەلەجەرى _م امچىلىغۇ ^{لى} مەل ^ى يەللەرلەيغەرىكى مەمەلىمەن.	an and marked and and the advertised of the
-50.0					
-60.0					
Start 5.7550 GHz		#Video BW 3.0	MHz		Stop 5.9550 GHz
#Res BW 1.0 MHz					Sweep 1.00 ms (1001 pts)
5 Marker Table					
Mode Trace Scale	Х	Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.804 4 GHz 5.850 0 GHz	8.382 dBm -41.04 dBm			
3 N 1 f	5.866 2 GHz	-39.60 dBm			
4 5					
6					
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	В	and Edge N	NVNT ac20 5	180MHz Lo	w Ant1	
Spectrum Analyzer 1 Swept SA	• +	0				
KEYSIGHT R L ↔ Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100/ Trig: Free Run	wer (RMS <mark>1</mark> 23456 100 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum v			Ref LvI Offset 7.			Mkr1 5.181 4 GHz 12.91 dBm
Scale/Div 10 dB			Ref Level 20.00	aBm		12.91 dBii
-10.0						
-30.0 -40.0 -50.0	ม _{ีชา} ราง เมืองการการการการการการการการการการการการการก	lafters-lo-ware-afters-war	was and an	┲┟╾╍⋗⋖⋹⋞⋏ ∊ ⋴┞∼⋧⋐⋹⋿ ₽ ⋑ ∊ ┱∮	mtrune and how and how and	DL1-27.00 dBm
-50.0 -60.0 -70.0						
Start 5.0000 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.2000 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale	X 5.1	81 4 GHz	Y 12.91 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.1 5.1	50 0 GHz 49 0 GHz	-40.32 dBm -38.64 dBm			
4 5 6						
	Sep 12, 2023 8:41:32 AM					
	Ba	and Edge N	IVNT ac20 52	240MHz Hi	gh Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF R L ··· Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100/ Trig: Free Run	wer(RMS <mark>1</mark> 23456 100 M \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.243 8 GHz 13.16 dBm
-10.0	h					DL1 -27.00 dBm
-30.0 Munt -40.0	Alastathata watana	A cololizaria dan d	Manta Hill Demonstra Contanta - 194	المراجع ومراجع ومروح والمراجع	2_{\}^3	
-50.0 -60.0 -70.0			- norther wet and the orthographic to the			
Start 5.2200 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.4200 GHz Sweep ~1.28 ms (1001 pts)
5 Marker Table						
Mode Trace Scale	X		Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f 3 N 1 f	5.3	43 8 GHz 50 0 GHz	13.16 dBm -43.68 dBm			
3 N 1 f 4 5 6	5.3	55 6 GHz	-41.23 dBm			
┨り┍ ा ?	Sep 12, 2023	\rightarrow \wedge				

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	В	and Edge N	VNT ac20 5	260MHz Lo	ow Ant1	
Spectrum Analyzer 1 Swept SA	+					
KEYSIGHT Input: RF RL Imput: RF Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Rur		
1 Spectrum v			Ref Lvi Offset 7.			Mkr1 5.257 4 GHz
Scale/Div 10 dB			Ref Level 20.00	dBm		13.22 dBm
10.0						
-10.0						DL1 -27.00, dBm
-30.0 -40.0 -30.0 -50.0	-ular Marin Marin Marina	2 Contraction	ቘፘኯኯዀጟጜዸዸኯኯጜጞቒኯዸኯዄኯኇጞ፟ዸ	mynahalanna Jun 19	aradanterallyoftartallongenested lyterinest	and tan
-60.0 -70.0 Start 5.0800 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.2800 GHz
#Res BW 1.0 MHZ 5 Marker Table V						Sweep 1.00 ms (1001 pts)
Mode Trace Scale			Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.1	57 4 GHz 50 0 GHz	13.22 dBm -40.49 dBm			
3 N 1 f 4	5.1	03 2 GHz	-39.48 dBm			
5						
	Sep 12, 2023 8:46:15 AM					
	Ba	and Edge N	IVNT ac20 53	320MHz Hi	gh Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF R L Imput: RF Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Rur		
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.318 8 GHz 13.16 dBm
Log 10.0 0.00						
-10.0	M1					
-20.0	\ <u>_</u>				<u>_</u> 3	DL1 -27.00 dBm
-40.0	month way water a	๛๛๚๚๛๛๛๛๛๛๚๛๛๚๚๛๛๛	war provident on the	m-nulpudulatir May	warder and some or and the	Leavergetherman and a second tradition of the Araba N
-60.0						
Start 5.3000 GHz			#Video BW 3.0	MHz		Stop 5.5000 GHz
#Res BW 1.0 MHz 5 Marker Table						Sweep ~1.28 ms (1001 pts)
Mode Trace Scale	Х		Y	Function	Function Width	Function Value
1 N 1 f	5.3	18 8 GHz 50 0 GHz	13.16 dBm -44.38 dBm			
2 N 1 f 3 N 1 f 4	5.4	35 4 GHz	-39.52 dBm			
5						
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	B	and Edge	VNT ac20 5	500MHz Lo	w Ant1	
Spectrum Analyzer 1 Swept SA	• +	Ū				
KEYSIGHT Input: RF RL ↔ Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Avg Hold: 100/1 Trig: Free Run	ver (RMS <mark>1</mark> 23456 00 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum			Ref Lvl Offset 7.			Mkr1 5.501 4 GHz
Scale/Div 10 dB			Ref Level 20.00	dBm		13.45 dBm
0.00 -10.0 -20.0						
-30.0	Journe - Warder	┍╴┖┎╽╏┍╍╘╍╾╍╌╝┝╍╌┺╡┝╍┺┍┙		month	2	DL1-27.0% dBm
-50.0 -60.0 -70.0						
Start 5.3200 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.5200 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹						
Mode Trace Scale	X	01 4 GHz	Y 13.45 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.4	70 0 GHz 31 0 GHz	-41.48 dBm -40.39 dBm			
4 5						
	Sep 12, 2023					
	8:50:52 AM	and Edge N	IVNT ac20 57	700MHz Hid	ah Ant1	
Spectrum Analyzer 1 Swept SA	+				,	
KEYSIGHT Input: RF RL Imput: RF Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Avg Hold: 100/1 Trig: Free Run	ver (RMS <mark>1</mark> 23456 00 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.701 4 GHz 14.12 dBm
Log 10.0 0.00			Ĭ			
-10.0						Di 1 -27 00 dBm
-10.0	203	مرمی مدین مربق از مربق می مربق می مربق		lanem, million J. J. and million	Hallon and my pop Manara (1944)	DL1-27.00 dBm
-10.0 -20.0 -30.0 -40.0 -50.0 -60.0	man 203		nt and the constraint of the	unan minerij Unit-u m	HJmanulisgeptionargerti	
-10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -70.0 Start 5.6800 GHz	203		#Video BW 3.0		H.S.C.manuellagogithumangerh	Stop 5.8800 GHz
-10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0	and a constant				hlanungudrug og have singer h	en an
-10 0 -20 0 -30 0 -40 0 -50 0 -50 0 -70 0 Start 5.6800 GHz #Res EW 1.0 MHz 5 Marker Table Mode Trace Scale	X		#Video BW 3.0		Function Width	Stop 5.8800 GHz
-10 0 -20 0 -30 0 -40 0 -50 0 -5	X 5.7(01 4 GHz 25 0 GHz	*Video BW 3.0 Y 14.12 dBm -41.55 dBm	MHz		Stop 5.8800 GHz Sweep 1.00 ms (1001 pts)
-10.0 -20.0 -30.0 -30.0 -30.0 -50.0	X 5.7(#Video BW 3.0	MHz		Stop 5.8800 GHz Sweep 1.00 ms (1001 pts)
-10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -50.0 -50.0 -60.0 -7	X 5.7(25 0 GHz	*Video BW 3.0 Y 14.12 dBm -41.55 dBm	MHz		Stop 5.8800 GHz Sweep 1.00 ms (1001 pts)

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Page 44 of 290



	В	and Edge N	IVNT ac20 57	745MHz Lo	ow Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF RL For the second	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Run	9wer (RMS <mark>123456</mark> /100 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.747 4 GHz 11.99 dBm
Log 10.0 Trace 1 Pass			Kei Levei 20.00	авт		1.35 dbm
0.00						
-20.0						
-30.0 -40.0 -40.0	lan para mana panama	Maran Marta Manuta Marana		mana an ataba futura	and the contraction of the second	3, 2/
-50.0						
-70.0 Start 5.5650 GHz			#Video BW 3.0			Stop 5.7650 GHz
#Res BW 1.0 MHz			#1020 814 3.0			Sweep 1.00 ms (1001 pts)
5 Marker Table 🛛 🔻						
Mode Trace Scale	5.7	47 4 GHz	Y 11.99 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f		25 0 GHz 20 0 GHz	-37.90 dBm -37.54 dBm			
4 5						
6						
	? Sep 12, 2023 8:55:41 AM					
Spectrum Analyzer 1		and Edge N	VNT ac20 58	325MHz Hi	igh Ant1	
Swept SA	• +					
KEYSIGHT Input: RF R L VI PASS	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Run	ower (RMS 1 2 3 4 5 6 /100 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.821 0 GHz 12.83 dBm
10.0 Trace 1 1 395			ļŢ_			
-10.0	η					
-20.0	λ	,3				
-40.0	har 2	-	mythan and the second	J. Marty and Jaky Stational	กุลกรณะ และ เมาะ เมาะ เมาะ เมาะ เมาะ เมาะ เมาะ เมา	างสุดจากการปกระวารการการการการการการการปกระวารปกระวาร
-60.0						
Start 5.8050 GHz			#Video BW 3.0	MHz		Stop 6.0050 GHz
#Res BW 1.0 MHz 5 Marker Table						Sweep 1.00 ms (1001 pts)
Mode Trace Scale	V		Y	Function	Function Width	Function Value
1 N 1 f	5.8	21 0 GHz 50 0 GHz	r 12.83 dBm -42.56 dBm	Punction	Function Wath	
2 N 1 f 3 N 1 f 4		62 8 GHz	-42.56 dBm -38.92 dBm			
5 6						
4 520	2 Sep 12, 2023	$\supset \land$				
	8:57:58 AM	\sim \bigtriangleup				

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	Band I	Edge NVNT ac40	5190MHz Lov	v Ant1	
Spectrum Analyzer 1	• +				
	nput Z: 50 Ω #Atten	: 30 dB PNO: Fast	#Avg Type: Pow	er (RMS 1 2 3 4 5 6	
	Corr CCorr Freq Ref: Int (S)	Gate: Off IF Gain: Low	Avg Hold: 100/10 Trig: Free Run	⁰⁰ M ₩ ₩ ₩ ₩	
LXI		Sig Track: Off		PNNNN	
1 Spectrum v Scale/Div 10 dB		Ref LvI Offse Ref Level 20.0	t 7.01 dB		Mkr1 5.183 0 GHz 11.08 dBm
		Rei Levei 20.			
0.00				forta participant	hannesser
-10.0				کمیں	μ Ν. μεία ματά ματά ματά ματά ματά ματά ματά ματ
-30.0			32	Nonung Konter	human har
-50.0	har-allen-esternesserver	مرام بر مرور میرور میرور میراند. را میرون میرو میرو میرو میرو میرو میرو میرو میرو			
-60.0					
Start 5.0300 GHz		#Video BW :	3.0 MHz		Stop 5.2300 GHz
#Res BW 1.0 MHz					Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹					
Mode Trace Scale	X 5.183 0 Gl	Y Hz 11.08 dBr	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.150 0 G 5.146 8 G	Hz -35.42 dBr	n		
4					
6					
	Sep 12, 2023 9:19:54 AM				
		Edge NVNT ac40	5230MHz Hia	h Ant1	
Spectrum Analyzer 1 Swept SA	• +	0			
		: 30 dB PNO: Fast Gate: Off	#Avg Type: Powe	er (RMS 1 2 3 4 5 6	
Coupling: DC C	Corr CCorr		Avg Hold: 100/10		
R L Align: Auto F	Corr CCorr Freq Ref: Int (S)	IF Gain: Low	Avg Hold: 100/10 Trig: Free Run	00 M W W W W P N N N N N	
RL ↔ Coupling: DC CAlign: Auto F 1 Spectrum ▼		IF Gain: Low Sig Track: Off	Avg Hold: 100/10 Trig: Free Run	⁰⁰ M ₩ ₩ ₩ ₩ ₩	Mkr1 5.219 2 GHz
RL Align: Auto F I Spectrum V Scale/Div 10 dB		IF Gain: Low	Avg Hold: 100/10 Trig: Free Run t 7.01 dB	⁰⁰ M ₩ ₩ ₩ ₩ ₩	Mkr1 5.219 2 GHz 11.12 dBm
Align: Auto		IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Hold: 100/10 Trig: Free Run t 7.01 dB	⁰⁰ M ₩ ₩ ₩ ₩ ₩	
Align: Auto F Align: Auto F 1 Spectrum Scale/Div 10 dB Log		IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Hold: 100/10 Trig: Free Run t 7.01 dB	⁰⁰ M ₩ ₩ ₩ ₩ ₩	
Align: Auto		IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Hold: 100/10 Trig: Free Run t 7.01 dB	⁰⁰ M ₩ ₩ ₩ ₩ ₩	11.12 dBm
Align: Auto		IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Hold: 1001(Trig: Free Run t 7.01 dB 00 dBm	⁰⁰ M ₩ ₩ ₩ ₩ ₩	11.12 dBm
Align: Auto		IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Hold: 1001(Trig: Free Run t 7.01 dB 00 dBm	00 M W W W W W W P N N N N N N	11.12 dBm
Align: Auto F I Spectrum Scale/Div 10 dB Log 100 100 000 200 000 300 000 -200 000 -300 000 -000 <t< td=""><td></td><td>IF Gain: Low Sig Track: Off Ref Level 20.1</td><td>Avg Hold: 10011 Trig: Free Run t7.01 dB 00 dBm</td><td>00 M W W W W W W P N N N N N N</td><td>11.12 dBm</td></t<>		IF Gain: Low Sig Track: Off Ref Level 20.1	Avg Hold: 10011 Trig: Free Run t7.01 dB 00 dBm	00 M W W W W W W P N N N N N N	11.12 dBm
Align: Auto F I Spectrum Scale/Div 10 dB Log 100 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000		IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Hold: 10011 Trig: Free Run t7.01 dB 00 dBm	00 M W W W W W W P N N N N N N	11.12 dBm
Image: Constraint of the second sec		IF Gain: Low Sig Track: Off Ref Lvl Offse Ref Level 20.	Avg Hold: 10011 Trig: Free Run t7.01 dB 00 dBm	00 M W W W W W W P N N N N N N	11.12 dBm
Image: Constraint of the second sec		IF Gain: Low Sig Track: Off Ref Lvl Offse Ref Level 20.	Avg Hold: 10011 Trig: Free Run t7.01 dB 00 dBm	00 M W W W W W W P N N N N N N	11.12 dBm
Align: Auto F 1 Spectrum Scale/Div 10 dB Log	X 5.219.2 G	IF Gain Low Sig Track: Off Ref LvI Offse Ref Level 20.	Avg Hold: 10011 Trig: Free Run t 7.01 dB 00 dBm 3.0 MHz Function		11.12 dBm DL1-27.00 dBm 2 3 Stop 5.3900 GHz Sweep 1.00 ms (1001 pts)
NL Align: Auto F 1 Spectrum V Scale/Div 10 dB Log 0 0 0 10.0 0 0 0 0.0 0 0 0 0.0 0 0 0 0.0 0 0 0 0.0 0 0 0 0.0 0 0 0 0.0 0 0 0 0.0 0 0 0 0.0 0 0 0 0 0.0 0 0 0 0 0 0.0 0	X	IF Gain: Low Sig Track: Off Ref Level 20.1	Avg Hold: 10011 Trig: Free Run 0 dBm 3.0 MHz		11.12 dBm DL1-27.00 dBm 2 3 Stop 5.3900 GHz Sweep 1.00 ms (1001 pts)
KL Align: Auto F 1 Spectrum Scale/Div 10 dB Scale/Div 10 dB Log	x 5.350 0 G	IF Gain: Low Sig Track: Off Ref Level 20.1	Avg Hold: 10011 Trig: Free Run 0 dBm 3.0 MHz		11.12 dBm DL1-27.00 dBm 2 3 Stop 5.3900 GHz Sweep 1.00 ms (1001 pts)
ML Align: Auto F I Spectrum Scale/Div 10 dB	x 5.350 0 G	IF Gain: Low Sig Track: Off Ref Level 20.1	Avg Hold: 10011 Trig: Free Run 0 dBm 3.0 MHz		11.12 dBm DL1-27.00 dBm 2 3 Stop 5.3900 GHz Sweep 1.00 ms (1001 pts)

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	Band Edge	NVNT ac40 5	270MHz Lo	w Ant1	
Spectrum Analyzer 1	+				
Swept SA KEYSIGHT Input: RF	Input Z: 50 Ω #Atten: 30 dB	PNO: Fast	#Avg Type: Pov	ver (RMS 1 2 3 4 5 6	
	Corr CCorr Freq Ref: Int (S)	Gate: Off IF Gain: Low	Avg Hold: 100/ Trig: Free Run	¹⁰⁰ M ₩ ₩ ₩ ₩	
		Sig Track: Off		PNNNNN	Mkr4 5 265 2 CHz
1 Spectrum v Scale/Div 10 dB		Ref Lvi Offset 7. Ref Level 20.00	.07 dB dBm		Mkr1 5.265 2 GHz 11.20 dBm
Log 10.0				1	antipotent service and a
0.00					· ····
-20.0					հ նչլ1 -27.00 dBm
-30.0 -40.0	2 where the shade and the shade a	hypernameter	Jeren production and the	Negrolive ^{NV^L}	hundren
-50.0					
-70.0					
Start 5.1100 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz		Stop 5.3100 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table					
Mode Trace Scale	Х	Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.265 2 GHz 5.150 0 GHz	11.20 dBm -43.02 dBm			
2 N 1 f 3 N 1 f 4	5.121 6 GHz	-38.54 dBm			
5					
	Sep 12, 2023 9:24:12 AM				
		NVNT ac40 53		ah Ant1	
Spectrum Analyzer 1 Swept SA	·+			<u>j</u> ii / iii i	
Coupling: DC	Input Z: 50 Ω #Atten: 30 dB Corr CCorr	PNO: Fast Gate: Off	#Avg Type: Pov Avg Hold: 100/*	ver (RMS 1 2 3 4 5 6	
R L +- Align: Auto	Freq Ref: Int (S)	IF Gain: Low Sig Track: Off	Trig: Free Run	M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum 🔹		Ref LvI Offset 7.	.09 dB		Mkr1 5.301 4 GHz
Scale/Div 10 dB		Ref Level 20.00			10.11 dBm
10.0 0.00	and remains so when				
-10.0					
-20.0	- Muliman	§2			DL1 -27.00 dBm
-40.0		war lyddwyd flewar y shwy ynyw	and the advention	and the Monte of the second of the second	unanterration and the second
-60.0					
-70.0		#Video BW 3.0	MHz		Stop 5.4700 GHz
#Res BW 1.0 MHz					Sweep ~1.28 ms (1001 pts)
5 Marker Table v					
Mode Trace Scale	X 5.301 4 GHz	Y 10.11 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.350 0 GHz 5.350 4 GHz	-37.21 dBm -35.07 dBm			
4 5					
6					
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	Ba	nd Edge N	VNT ac40 5	510MHz L	ow Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto Align: Auto	Input Ζ: 50 Ω # Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Rur	ower (RMS <mark>1</mark> 23456 √100 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum 🔻			Ref LvI Offset 7.	10 dB		Mkr1 5.521 6 GHz
Scale/Div 10 dB			Ref Level 20.00	dBm		9.63 dBm
0.00						formation in my
-10.0					م م	QL1 -27.00 dBm
-30.0		hanne transtane	Hen del marth has a second	mulant	2 ref	how wanter
-40.0 -50.0 -60.0	rvq~*iggudratrystabliquide	nd Mina (Cartonal and A				
-70.0						
Start 5.3500 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.5500 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table						
Mode Trace Scale	X	1 6 GHz	Y 9.634 dBm	Function	Function Width	Function Value
2 N 1 f	5.470) 0 GHz	-39.33 dBm			
3 N 1 f	5.459	9 4 GHz	-37.01 dBm			
5						
1 527	Sep 12, 2023 9:28:43 AM					
		nd Edge N	IVNT ac40 56	670MHz H	igh Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Rur		
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00			Mkr1 5.659 0 GHz 12.96 dBm
Log	1 men prover and					
0.00						
-20.0		No be	~ ~~~			DL1 -27.00 dBm
-30.0 -40.0		Mary Mary Carl	mulun mun 23	Mondonation	ารการใจเป็นอาการบ่าวการจะการสะดา	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-50.0						
-70.0						
Start 5.6300 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHZ		Stop 5.8300 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹						
Mode Trace Scale	X 5.659	9 0 GHz	Y 12.96 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.72	5 0 GHz 7 0 GHz	-38.07 dBm -37.39 dBm			
	5.72	0-0112	-07.00-0011			
6						
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Page 48 of 290



	Band Ed	ge NVNT ac40 5	755MHz Lo	ow Ant1	
Spectrum Analyzer 1 Swept SA	• +				
Coupling: DC	Input Z: 50 Ω #Atten: 30 Corr CCorr Freq Ref: Int (S)	dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Run	wer (RMS <mark>1</mark> 23456 /100 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum ▼ Scale/Div 10 dB		Ref Lvi Offset 7 Ref Level 20.00			Mkr1 5.744 0 GHz 9.08 dBm
Log 10.0 Trace 1 Pass		Kei Level 20.00	авш 		
-10.0					
-20.0					- Kon
-40.0 กฎมาการที่สามารากเสมาร์รูปการการไปการการสา	llegtherrowselfacturestally and	Hater and the second of the second	and the second		
-60.0					
Start 5.5950 GHz #Res BW 1.0 MHz		#Video BW 3.0) MHz		Stop 5.7950 GHz Sweep 1.00 ms (1001 pts
5 Marker Table v					
Mode Trace Scale	X 5.744 0 GHz	Y 9.075 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f 4	5.725 0 GHz 5.719 0 GHz	-35.54 dBm -33.20 dBm			
5 6					
	Sep 12, 2023 9:33:16 AM				
		ge NVNT ac40 5	795MHz Hi	gh Ant1	
Spectrum Analyzer 1 Swept SA	• +				
Coupling: DC	Input Ζ: 50 Ω #Atten: 30 Corr CCorr Freq Ref: Int (S)	dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100/ Trig: Free Run		
1 Spectrum v Scale/Div 10 dB		Ref LvI Offset 7 Ref Level 20.00			Mkr1 5.788 6 GHz 8.96 dBm
10.0 Trace 1 Pass					
-10.0					
	· · · · · · · · · · · · · · · · · · ·				
-20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3		
-20.0		non and the second s	3	مر محمد میں میں اور میں میں اور	1)
-20 0 -30 0 -40 0 -60 0 -70 0					and the second
-20 0 -30 0 -40 0 -50 0 -50 0 -70 0 Start 5.7550 GHz #Res BW 1.0 MHz		#Video BW 3.0		pdan ngala ana ndalifipasi ngana dasha	
-20 0 -30 0 -30 0 -40 0 -50 0 -5		#Video BW 3.0) MHz		Sweep 1.00 ms (1001 pts)
-20 0 -30 0 -30 0 -40 0 -50 0 -70 0 -7	X 5.788 6 GHz 5.880 0 GHz	#Video BW 3.0		Function Width	
-20 0 -30 0 -40 0 -4		#Video BW 3.0) MHz	Function Width	Stop 5.9550 GHz Sweep 1.00 ms (1001 pts) Function Value
-20.0 -30.0 -30.0 -40.0 -50.0 -50.0 -50.0 -70.0 Start 5.7550 GHz #Res BW 1.0 MHz 5 Marker Table V Mode Trace Scale 1 N 1 f 3 N 1 f	5.788 6 GHz 5.850 0 GHz	#Video BW 3.0 Y 8.961 dBm -42.40 dBm) MHz	Function Width	Sweep 1.00 ms (1001 pts)

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	Ban	d Edge N	VNT ac80 5	210MHz I	ow Ant1	
Spectrum Analyzer 1	• +					
Swept SA KEYSIGHT Input: RF		tten: 30 dB	PNO: Fast	#Ava Type: F	Power (RMS 1 2 2 4 5 6	
RL +>+ Coupling: DC Align: Auto	Corr CCorr		Gate: Off	Avg Hold: 10 Trig: Free Ru	Power (RMS 1 2 3 4 5 6 10/100 M W W W W	
Align: Auto	Freq Ref: Int (S)		IF Gain: Low Sig Track: Off	Trig: Free Ri	PNNNN	
1 Spectrum 🔻			Ref LvI Offset 7	.01 dB		Mkr1 5.191 0 GHz
Scale/Div 10 dB			Ref Level 20.00			7.87 dBm
10.0			Anne	1	man and the second s	
-10.0		,		V		
-20.0	^ 3 _	للسميل				DL1 -27.00 dBm
-30.0	4 may or top marker to	Martin Marth				Mon Maria Ma
-50.0						
-60.0						
Start 5.0900 GHz			#Video BW 3.0	MHz		Stop 5.2900 GHz
#Res BW 1.0 MHz						Sweep 1.00 ms (1001 pts)
5 Marker Table						
Mode Trace Scale	Х		Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.191 (5.150 (0 GHz 0 GHz	7.870 dBm -36.98 dBm			
3 N 1 f	5.147 6	6 GHz	-34.59 dBm			
5						
6						
■ ? ぺ ■ ?	Sep 12, 2023 9:38:08 AM					- III 💽 💥
		d Edge N	VNT ac80 5	290MHz L	ow Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF		tten: 30 dB	PNO: Fast	#Avg Type: F	Power (RMS 1 2 3 4 5 6	
R L +>+ Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S)		Gate: Off IF Gain: Low	Avg Hold: 10 Trig: Free Ru	un M VV VV VV VV	
L)(I			Sig Track: Off		PNNNN	
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7 Ref Level 20.00			Mkr1 5.307 3 GHz 8.23 dBm
Log			Ref Level 20.00	abm		0.23 UDIII
0.00						2 - many
-10.0						
-20.0	<mark>∂³ ∂2</mark>			W		DL1 -27.00 dBm
-40.0	L <u>ue es anno Arener</u>	and a star of the second s	and an and a star of the second s	-Age		
-50.0						
-70.0						
Start 5.0700 GHz			#Video BW 3.0	MHz		Stop 5.3700 GHz
#Res BW 1.0 MHz 5 Marker Table						#Sweep 1.00 s (1001 pts)
Mode Trace Scale	X 5.307 (3 GHz	Y 8.226 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.150 (5.122 8	0 GHz	-38.83 dBm -36.87 dBm			
4	3.1228	5-6112	-30.67 UBIII			
5						
	Sep 12, 2023	\wedge				
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	Ba	and Edge N	IVNT ac80 5	530MHz I	_ow Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF RL Input: RF Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Avg Hold: 10 Trig: Free R	Power (RMS 1 2 3 4 5 6 00/100 un M W W W W W P N N N N N	
1 Spectrum 🔹			Ref LvI Offset 7			Mkr1 5.538 0 GHz
Scale/Div 10 dB Log			Ref Level 20.00	dBm	•1	9.19 dBm
0.00			part and a start a		anterior and a second and the second	
-10.0		Hand -				\
-30.0		2 - man Martin				DL1-27.00 dBm
-40.0	warene ingfre wyktere ingt in it.	dort'				
-60.0						
Start 5.4100 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.6100 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale			Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.53	38 0 GHz 70 0 GHz	9.189 dBm -39.02 dBm			
3 N 1 f	5.45	59 4 GHz	-36.01 dBm			
4 5 6						
4 521	? Sep 12, 2023 9:44:45 AM	DA				
		and Edge N	IVNT ac80 5	610MHz H	High Ant1	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT RL ··· Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Avg Hold: 10 Trig: Free R		
1 Spectrum V Scale/Div 10 dB			Ref LvI Offset 7 Ref Level 20.00	20 dB dBm		Mkr1 5.628 6 GHz 9.81 dBm
Log 10.0	and the second second	ᢔᡊᡙᡟᡄ᠘ᢦᡡᡔᡐᠰᡃ᠇ᡫᠧ᠆᠋᠆᠆ᡶᡁ	Mugner March and	Whowware how and a		
-10.0	fampene -					
-20.0	www.				M M Aca	DL1 -27.00 dBm
-40.0					William and the second second	wrane ash make any approximately you
-50.0						
-70.0						
Start 5.5300 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz		Stop 5.7300 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale			Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f 3 N 1 f	5.72	28 6 GHz 25 0 GHz	9.814 dBm -40.05 dBm			
3 N 1 f 4	5.72	25 6 GHz	-37.67 dBm			
5						
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	Ва	nd Edge N	VNT ac80 5	775MHz L	ow Ant1			
Spectrum Analyzer 1 Swept SA	• +	<u> </u>						
KEYSIGHT Input: RF R L ↔ Coupling: DC Align: Auto Align: Auto	Input Z: 50 Ω # Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pe Avg Hold: 100 Trig: Free Rur	n M 🖤	3 4 5 6 ₩₩₩₩ N N N N		
1 Spectrum V			Ref LvI Offset 7.	14 dB			Mkr1 5.79	
Scale/Div 10 dB Log 10.0 Trace 1 Pass			Ref Level 20.00	dBm	<u></u>		6.	03 dBm
0.00			and the second second second	mound	the warmen and the second	mentionen		
-10.0		4 ?	/				1 Mar 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-30.0	Arash washering	Manan Martin					William William Contraction	White And ready
-50.0								
-60.0								
Start 5.6550 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz			Stop 5 Sweep 1.00 ms	.8550 GHz (1001 pts)
5 Marker Table 🔹								
Mode Trace Scale	Χ		Y	Function	Function	n Width	Function Valu	e
1 N 1 f 2 N 1 f	5.725	1 0 GHz 5 0 GHz	6.029 dBm -32.84 dBm					
3 N 1 f 4	5.724	4 8 GHz	-32.59 dBm					
5 6								
4 527?	Sep 12, 2023 9:49:26 AM							
		nd Edge N	IVNT ax160 5	5250MHz L	ow Ant1			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF R L Imput: RF Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Rur	n M 🖤	3 4 5 6 ₩₩₩₩ N N N N		
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 7. Ref Level 20.00				Mkr1 5.28	3 4 GHz 83 dBm
Log 10.0				1				
-10.0	and a house house and	an a	A CONTRACTOR OF	o	and a second and a second s			
$\begin{array}{c c} -20.0 \\ -30.0 \\ -40.0 \end{array}$	North					- WA-VIA-		.1 -27.00 dBm
-40.0 worker water						The second se	Burnenasson	and the second second
-60.0								
Start 5.1100 GHz			#Video BW 3.0	MHz				.4100 GHz
#Res BW 1.0 MHz 5 Marker Table							Sweep ~1.33 ms	
5 Marker Table Mode Trace Scale	х		Y	Function	Function	N/idth	Function Valu	
1 N 1 f	5.283	3 4 GHz	2.825 dBm	Function	Function	TWIGH	Function Valu	
2 N 1 f 3 N 1 f	5.150 5.140	0 0 GHz) 9 GHz	-42.71 dBm -38.61 dBm					
4 5								
6								
45CD?	Sep 13, 2023 12:51:42 PM							

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	Band Edge N	NVNT ax160 5570	MHz Low Ant1	
Spectrum Analyzer 1 Swept SA	· +			
KEYSIGHT RL ↔ Coupling: DC Align: Auto	Input Z: 50 Ω #Atten: 30 dB Corr CCorr Freq Ref: Int (S)	Gate: Off Ave	y. Free Run	₩₩₩ NNN
1 Spectrum 🔻		Ref LvI Offset 7.16 de		Mkr1 5.589 3 GHz
Scale/Div 10 dB		Ref Level 20.00 dBm		4.72 dBm
0.00	مىسىلى ئەرىمىسى بىلانىكى بىلىنى بى ئىلىنى ئەرىپى بىلىنى	much en france	wylegen to grogen tray	
-10.0				
-30.0 -30.0 -40.0 -50.0 -60.0 -70.0				DL1-27.00 dBm My My L J Manuar on protocol and a flat web more that the
Start 5.4300 GHz #Res BW 1.0 MHz		#Video BW 3.0 MHz		Stop 5.7300 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table				
Mode Trace Scale	X		nction Function	Width Function Value
1 N 1 f 2 N 1 f	5.589 3 GHz 5.470 0 GHz	4.723 dBm -41.33 dBm		
3 N 1 f 4	5.462 7 GHz	-38.54 dBm		
5				
	Sep 13, 2023			
		NVNT ax20 5180	MHz Low Ant1	
Spectrum Analyzer 1 Swept SA	• +			
KEYSIGHT Input: RF R L + Align: Auto	Input Z: 50 Ω #Atten: 30 dB Corr CCorr Freq Ref: Int (S)	Gate: Off Ave	u. Free Run	4 5 6 /₩₩₩ I N N N
1 Spectrum v Scale/Div 10 dB		Ref LvI Offset 11.01 d Ref Level 20.00 dBm	В	Mkr1 5.180 8 GHz 13.99 dBm
10.0		ļ		1
-10.0				
-20.0				
-30.0 -40.0 -40.0	almagerson frage by Bytergene and the advances	and and the second and and a second and as second and a	man war and market	Munitemper
-50.0				
-60.0				
Start 5.0000 GHz		#Video BW 3.0 MHz		Stop 5.2000 GHz
#Res BW 1.0 MHz				Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹				
Mode Trace Scale	X 5.180 8 GHz	Y Fur 13.99 dBm	nction Function	Width Function Value
2 N 1 f	5.150 0 GHz	-28.31 dBm		
3 N 1 f	5.146 0 GHz	-27.99 dBm		
5 6				
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	Band	d Edge NVN	T ax20 524	40MHz High	Ant1			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT RL ↔ Coupling: DC Align: Auto	Input Z: 50 Ω #At Corr CCorr Freq Ref: Int (S)	G	NO: Fast ate: Off Gain: Low g Track: Off	#Avg Type: Power Avg Hold: 100/100 Trig: Free Run	PI VV V	8 4 5 6 ∀₩₩₩ N N N N		
1 Spectrum			LvI Offset 11.0				Mkr1 5.24	
Scale/Div 10 dB	May Charles		Level 20.00 dE	3m				.39 dBm
-50.0 -60.0 -70.0	alter for the state of the former of the for			Minternation of the	2 	glanne of anne of a	nd-Almer and plantane	ϨϧϷϼϧϥϭ ͳϼͻϨͺϼϲ;ϾϘϧϧ
Start 5.2200 GHz #Res BW 1.0 MHz		#	Video BW 3.0 N	1Hz			Stop Sweep ~1.28 ms	5.4200 GHz s (1001 pts)
5 Marker Table 🔹 🔻								
Mode Trace Scale	X 5.247 2		Y 13.39 dBm	Function	Function	Width	Function Va	lue
1 N 1 T 2 N 1 f 3 N 1 f 4 5 6	5.350 0 5.389 4	GHz	-40.02 dBm -37.28 dBm					
	Sep 25, 2023 1:12:36 PM	\triangle						
	Ban	d Edge NVN	IT ax20 52	60MHz Low	Ant1			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT RL +++ Coupling DC Align: Auto	Input Z: 50 Ω #At Corr CCorr Freq Ref: Int (S)	G	NO: Fast ate: Off Gain: Low g Track: Off	#Avg Type: Power Avg Hold: 100/100 Trig: Free Run	M ₩ ¥	8 4 5 6 ∀₩₩₩ N N N N		
1 Spectrum v Scale/Div 10 dB		Ref Ref	LvI Offset 11.0 Level 20.00 de	l6 dB 3m			Mkr1 5.25 _13	9 0 GHz .60 dBm
Log 10.0 0.00							1-	لمر
-10.0 -20.0 -30.0	<u>0</u> 3	2				مى المى المى المى الم	Magail -	DL1-21 04 28 00
-40.0	tout als front of the strate o	ombliki	ปะส ¹ รไขสาวีเหลงจำให้ _{มีใ} บสาวส	สารรุงษณ _์ คามหม _ี เรื่องสุดประกับ	wester and	4+-1017-1-1		
-60.0								
-70.0		#	Video BW 3.0 M	1Hz			Stop	5.2800 GHz
-70.0 Start 5.0800 GHz #Res BW 1.0 MHz		#	Video BW 3.0 N	1Hz			Stop Sweep 1.00 m	5.2800 GHz s (1001 pts)
-70.0 Start 5.0800 GHz #Res BW 1.0 MHz 5 Marker Table						146-140-	Sweep 1.00 m	s (1001 pts)
-70 0 Start 5.0800 GHz #Res BW 1.0 MHz 5 5 Marker Table v Mode Trace Scale 1 N 1 f	X 5.259 0	GHz	Y 13.60 dBm	IHz Function	Function	Width		s (1001 pts)
-70 0 Start 5.0800 GHz #Res BW 1.0 MHz 5 Marker Table Mode Trace Scale		GHz GHz	Y		Function	Width	Sweep 1.00 m	s (1001 pts)

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	Bar	nd Edge N	IVNT ax20 5	320MHz H	ligh Ant1			
Spectrum Analyzer 1 Swept SA	• +							
RL +++ Align: Auto		Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Avg Hold: 10 Trig: Free R	un M 🖤	3 4 5 6 ₩₩₩₩ N N N N		
1 Spectrum 🔹			Ref LvI Offset 11					319 2 GHz
Scale/Div 10 dB Log 10.0 0.00 -20.0 -20.0 -30.0	Julia 3		Ref Level 20.00	dBm				3.30 dBm
40.0 -50.0 -60.0 -70.0 Start 5.3000 GHz		performante and the second	#Video BW 3.0	۱ <mark>۰۰۰۰۰ ۱۹۰۹ ۱۹۰۹ ۱۹۰۹ ۱۹۰۹ ۱۹۰۹ ۱۹۰۹ ۱۹</mark>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	₽⊷Andrene 	Sto	<u>оллоц Афери</u> р 5.5000 GHz
#Res BW 1.0 MHz							Sweep ~1.28 i	ns (1001 pts)
5 Marker Table 🔹 🔻								
Mode Trace Sca		2 GHz	Y 13.30 dBm	Function	Functio	n Width	Function \	/alue
1 N 1 f 2 N 1 f	5.350	0 GHz	-38.36 dBm					
3 N 1 f	5.352	2 GHz	-30.36 dBm					
5								
	Sep 25, 2023 1:20:42 PM							
		nd Edae N	IVNT ax20 5	500MHz I	_ow Ant1			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF R L ↔ Coupling: DC Align: Auto Align: Auto		Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Avg Hold: 10 Trig: Free R	un M 🖤	3 4 5 6 ₩₩₩₩ N N N N		
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 11 Ref Level 20.00					199 4 GHz 2.63 dBm
Log 10.0 0.00			Ť				frankerster -	A-4
-10.0 -20.0 -30.0				مر ما الر	. til Langerer av	A 2 2 and	<u>₩</u> ħᡗ~ŧſħţ ^Ŋ	DL1-22.0010
-40.0		An Alance and a second						
Start 5.3200 GHz			#Video BW 3.0	MHz			Sto	p 5.5200 GHz
#Res BW 1.0 MHz								ms (1001 pts)
5 Marker Table 🔹 🔻								
Mode Trace Sca			Y	Function	Functio	n Width	Function \	/alue
1 N 1 f 2 N 1 f		4 GHz 0 GHz	12.63 dBm -34.57 dBm					
3 N 1 f	5.466	8 GHz	-31.44 dBm					
4 5								
6								
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		B	and Edge N	IVNT ax20 57	700MHz Hi	gh Ant1	
Spectrum Analyzer Swept SA	1	• +					
KEYSIGHT Inp RL ↔ Co Alia	out: RF upling: DC gn: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100/ Trig: Free Run	wer (RMS 1 2 3 4 5 6 /100 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum	•			Ref LvI Offset 7.			Mkr1 5.702 4 GHz
Scale/Div 10 dB				Ref Level 20.00	dBm		3.20 dBm
10.0 0.00 -10.0	1						
-20.0		<u>^2</u>					DL1 -27.00 dBn
-40.0	hun	-torrespondence	ะกุณโหกรฟะจะใจกระจ _{ะสุบร} สาว	alran and a faither	the property of the second	ๅ๛๚๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	
-60.0							
Start 5.6800 GHz #Res BW 1.0 MHz				#Video BW 3.0	MHz		Stop 5.8800 GH Sweep 1.00 ms (1001 pts
5 Marker Table	•						
Mode Tra	ice Scale	X		Y	Function	Function Width	Function Value
1 N 1 2 N 1	f f	5.7	02 4 GHz 25 0 GHz	3.197 dBm -42.78 dBm			
2 N 1 3 N 1	f		63 6 GHz	-39.76 dBm			
4							
5							
- - - -	2	Sep 25, 2023 2:29:53 PM					
				VNT ax20 5	745MHz L (w Ant1	
Spectrum Analyzer Swept SA		• +					
KEYSIGHT Inp RL ↔ Co Aliq M PASS	out: RF rupling: DC gn: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Run	wer (RMS 1 2 3 4 5 6 /100	
1 Spectrum Scale/Div 10 dB	v			Ref LvI Offset 11 Ref Level 20.00 c			Mkr1 5.743 2 GH 13.60 dBn
10.0 Trace 1	Pass						1 server
						an and the second se	32441 WING
-30.0	and a function of	warman langaparangan	a har market has	and the second	horstelmannessenad	warden and the south of the sou	
-50.0							
Start 5.5650 GHz #Res BW 1.0 MHz				#Video BW 3.0	MHz		Stop 5.7650 GH Sweep 1.00 ms (1001 pts
5 Marker Table	•						
	ace Scale	X		Y	Function	Function Width	Function Value
1 N 1 2 N 1	f f	5.7	43 2 GHz 25 0 GHz	13.60 dBm -25.98 dBm			
3 N 1	f		22 6 GHz	-23.10 dBm			
5 6							
4 7 C	?	Sep 25, 2023 1:32:00 PM					

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	Band Edge N	IVNT ax20 58	25MHz Hi	igh Ant1	
Spectrum Analyzer 1 Swept SA	· +				
Coupling: DC Co	ut Ζ: 50 Ω #Atten: 30 dB rr CCorr q Ref: Int (S)	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Rur	ower (RMS 1 2 3 4 5 6 //100 M W W W W W P N N N N N	
1 Spectrum ▼ Scale/Div 10 dB		Ref LvI Offset 11. Ref Level 20.00 d			Mkr1 5.829 2 GHz 13.83 dBm
		Ref Level 20.00 d	BM		13.65 dBill
0.00					
-10.0 -20.0 -30.0	<mark>∕11.}2</mark>				
-40.0	million white the second	melburnularturnartar	Maderona	Carling and the second s	un hann hann han han han han han han han
-50.0					
-70.0 Start 5.8050 GHz		#Video BW 3.0	MUz		Stop 6.0050 GHz
#Res BW 1.0 MHz		#video Bvv 3.0			Stop 0.0050 GH2 Sweep 1.00 ms (1001 pts)
5 Marker Table V					
Mode Trace Scale	X 5.829 2 GHz	Y 13.83 dBm	Function	Function Width	Function Value
2 N 1 f	5.850 0 GHz	-28.41 dBm			
4 5 6					
	an 25, 2023				
	ep 25, 2023 :34:58 PM			ovy A ot 1	
Spectrum Analyzer 1 Swept SA		NVNT ax40 51			
Coupling: DC Co	ut Z: 50 Ω #Atten: 30 dB rr CCorr ig Ref: Int (S)	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 100 Trig: Free Rur	ower (RMS <mark>1</mark> 23456 /100 M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum v Scale/Div 10 dB		Ref LvI Offset 11. Ref Level 20.00 d			Mkr1 5.188 8 GHz 10.63 dBm
Log 10.0 0.00				prosting and	1_
-10.0					
-30.0	Mounter And all March of the State of the St	andrennon	whether whether	www.	alta Cheddeladd
-50.0					
-70.0					
Start 5.0300 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz		Stop 5.2300 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹					
Mode Trace Scale	X 5.188 8 GHz	Y 10.63 dBm	Function	Function Width	Function Value
2 N 1 f 3 N 1 f	5.150 0 GHz 5.145 8 GHz	-36.69 dBm -29.22 dBm			
4 5 6					
	ep 25, 2023 :38:12 PM				

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	Ва	Ind Edge N	VNT ax40 52	230MHz H	High Ant1			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF RL ↔ Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Avg Hold: 10 Trig: Free R	un M 🖤	3 4 5 6 ₩₩₩₩ N N N N		
1 Spectrum			Ref LvI Offset 11				Mkr1 5	.227 8 GHz
Scale/Div 10 dB	1	Innderproduced	Ref Level 20.00 c	IBm				9.66 dBm
40 0 -50 0 -60 0 -70 0 Start 5.1900 GHz			ליליאליטעיקאאייטעע Wideo BW 3.0	MHz	Parking () - yog (1904) - yok (1904)	annaliteitean an a	S	top 5.3900 GHz
#Res BW 1.0 MHz 5 Marker Table							Sweep 1.0	0 ms (1001 pts)
ModeTraceScale1N1f2N1f	5.35	7 8 GHz 0 0 GHz	Y 9.660 dBm -39.29 dBm	Function	Functio	n Width	Functior	n Value
3 N 1 f 4 5 6	5.37	2 6 GHz	-37.59 dBm					
	Ba	and Edge N	IVNT ax40 52	270MHz L	_ow Ant1			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF R L Imput: RF Align: Auto Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Avg Hold: 10 Trig: Free R	un M 🖤	3 4 5 6 ₩₩₩₩₩ N N N N		
1 Spectrum v Scale/Div 10 dB			Ref LvI Offset 11 Ref Level 20.00 c				Mkr1 5	.280 4 GHz 10.13 dBm
Log 10.0 0.00 -10.0						parant and a second	- manager live agen	
-10.0 -20.0 -30.0 -40.0	2 Mar 2	Prower and the state of the sta	مريحين بالمريحين	www.	all Martha Maran			քե1-27.00 dBm ԿՄՄՆՆումիդՈւի
-50.0								
-70.0 Start 5.1100 GHz			#Video BW 3.0	MHz				top 5.3100 GHz
#Res BW 1.0 MHz							Sweep 1.0	0 ms (1001 pts)
5 Marker Table								
Mode Trace Scale		0 4 GHz	Y 10.13 dBm	Function	Functio	n wiath	Functior	value
2 N 1 f 3 N 1 f 4 5 6	5.15 5.12	0 0 GHz 8 8 GHz	-38.81 dBm -35.43 dBm					
1 527?	Sep 25, 2023 1:44:28 PM							

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Ba	Ind Edge NVNT ax40 531	0MHz Hiah Ant1	
Spectrum Analyzer 1		5	
Swept SA	#Atten: 30 dB PNO: Fast # Gate: Off # IF Gain: Low T Sig Track: Off	Avg Type: Power (RMS 1 2 3 4 5 6 vg Hold: 100/100 rig: Free Run P N N N N	
1 Spectrum 🔹	Ref LvI Offset 11.09	dB	Mkr1 5.310 4 GHz
Scale/Div 10 dB Log 10.0 0.00 -10.0 -20.0	Ref Level 20.00 dBr	n	9.65 dBm
-20.0 -40.0 -50.0 -50.0 -70.0	Muthut With Hindowson and	langtangkon kalantikakang kang kang kang kang kang kang kan	DL1-27.00 dBm
Start 5.2700 GHz #Res BW 1.0 MHz	#Video BW 3.0 MH	İz	Stop 5.4700 GHz Sweep ~1.28 ms (1001 pts)
5 Marker Table			
Mode Trace Scale X	Y F 0 4 GHz 9.646 dBm	unction Function Width	Function Value
2 N 1 f 5.35 3 N 1 f 5.35 4 5	0 0 GHz -31.79 dBm 3 8 GHz -30.24 dBm		
6 Sep 25, 2023 1:47:22 PM			
	and Edge NVNT ax40 551	0MHz Low Ant1	
Spectrum Analyzer 1 The Swept SA			
KEYSIGHT Input RF Input Z: 50 Ω RL → Coupling: DC Corr CCorr Align: Auto Freq Ref. Int (S)	Gate: Off A	Avg Type: Power (RMS 1 2 3 4 5 6 vg[Hold: 100/100 Trig: Free Run P N N N N	4
1 Spectrum v Scale/Div 10 dB	Ref LvI Offset 7.10 Ref Level 20.00 dBi		Mkr1 5.504 4 GHz -2.27 dBm
Log 10.0 0.00 -10.0 -20.0		reat-stille	
-200 -30.0 -50.0		propriese free free free free free free free f	DL1-27.00 dBm
-60.0 -70.0			
Start 5.3500 GHz #Res BW 1.0 MHz	#Video BW 3.0 MH	z	Stop 5.5500 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table			
2 N 1 f 5.47	Y F 4 4 GHz -2.269 dBm 0 0 GHz -44.10 dBm 0 2 GHz -41.21 dBm	unction Function Width	Function Value
4 5 6			

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Page 59 of 290



В	and Edge NVNT ax4	40 5670MHz Hig	gh Ant1	
Spectrum Analyzer 1				
KEYSIGHT Input: RF Input Z: 50 Ω	#Atten: 30 dB PNO: Fast Gate: Off	t #Avg Type: Pov Avg Hold: 100/1	ver (RMS <mark>1 2 3 4 5 6</mark>	
Align: Auto Freq Ref: Int (S)	IF Gain: Lo Sig Track:	ow Trig: Free Run	M ₩ ₩ ₩ ₩ ₩ P N N N N N	
1 Spectrum			P IN IN IN IN IN	Mkr1 5.664 4 GHz
Scale/Div 10 dB	Ref LvI Off Ref Level 2	fset 11.31 dB 20.00 dBm		9.41 dBm
		T T		
0.00 -10.0	•			
-20.0	Middly Harry 10	۵3		DL1 -27.00 dBm
-30.0 %/1492/044104/04/	My alot Marger and Mr. Manurup	L. Mayoralaan, ahaya, aharika ahariyaa,	التصيير ومومج ومروار وأمراد ومراجع المعار	-4/201914/ปีคอากาศกำรงแก่ไปประเทศไม่ไปประเทศ
-50.0				
-70.0				
Start 5.6300 GHz #Res BW 1.0 MHz	#Video E	3W 3.0 MHz		Stop 5.8300 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table				
Mode Trace Scale X	Y	Function	Function Width	Function Value
1 N 1 f 5.6	64 4 GHz 9.411	dBm		
3 N 1 f 5.7	25 0 GHz -37.96 27 2 GHz -32.57	dBm dBm		
4 5				
6				
E 5 C 5 25, 2023	\square			🖬 🚼 📑 💢
	and Edge NVNT ax	40 5755MHz Lo	w Ant1	
Spectrum Analyzer 1 Swept SA				
KEYSIGHT Input: RF Input Z: 50 Ω RI Coupling: DC Corr CCorr	#Atten: 30 dB PNO: Fast Gate: Off	t #Avg Type: Pov Avg Hold: 100/1	ver (RMS 1 2 3 4 5 6	
RL + Align: Auto Freq Ref: Int (S)	IF Gain: Lo Sig Track:	ow Trig: Free Run	M ** ** ** ** P N N N N N	
1 Spectrum		fset 11.17 dB		
Scale/Div 10 dB	Ref Level 2			Mkr1 5.750 6 GHz
		20.00 0011		Mkr1 5.750 6 GHz 9.53 dBm
Log 10.0 Trace 1 Pass				
Log 10.0 Trace 1 Pass			Malannaande .	
Log 1000 -1000 -200			Malannaande .	9.53 dBm
Log 10.0 -10.0 -10.0		river allow the deal (1/2010) With	Malannaande .	
Log 100 Trace 1 Pass 0.00 -100 -200 -300 -300 -500			Malannaande .	9.53 dBm
Log 100 100 100 -00			Malannaande .	9.53 dBm
Log 10.0 10.0 -20.0 -30.0 -40.0 -50.0 -70.0 Start 5.5950 GHz	#Video E		Malannaande .	9.53 dBm
Log 100 Trace 1 Pass 0.00 -100 -200 -300 -300 -400 -500 -600 -700	#Video E	non-anno hailtean Wh	Malannaande .	9.53 dBm
Log 100 Trace 1 Pass 0.00 -100 -200 -200 -300 -300 -300 -500	the second se	BW 3.0 MHz		9.53 dBm
Log 10.0 10.0 20.0 40.0 5	50 6 GHz 9.529	BW 3.0 MHz	Malannaande .	9.53 dBm
Log 10.0 1	Y	BW 3.0 MHz		9.53 dBm
Log 10.0 Trace 1 Pass 0.00 10.0 20.0 20.0 40.0 50.0	50 6 GHz 9.529 25 0 GHz -28.71	BW 3.0 MHz		9.53 dBm
Log 10.0 Trace 1 Pass 0.0 10.0 20.0 30.0 40.0 50.0	50 6 GHz 9.529 25 0 GHz -28.71	BW 3.0 MHz		9.53 dBm

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	Band E	Edge NVNT ax40 5	795MHz H	igh Ant1	
Spectrum Analyzer 1 Swept SA	• +	0		Ŭ	
KEYSIGHT Input: RF RL ↔ Coupling: DC M PASS	Input Z: 50 Ω #Atten: Corr CCorr Freq Ref: Int (S)	: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pr Avg Hold: 100 Trig: Free Ru	ower (RMS <mark>123456</mark> //100 n	
1 Spectrum		Ref LvI Offset 1			Mkr1 5.788 6 GHz
Scale/Div 10 dB	1	Ref Level 20.00	dBm		9.74 dBm
0.00	marker were				
-20.0 -30.0 -40.0		hold flat Mar mushing	mand of the state of the party of the	3	and and a state of the state of
-50.0 -60.0 -70.0					
Start 5.7550 GHz #Res BW 1.0 MHz		#Video BW 3.0) MHz		Stop 5.9550 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹					
Mode Trace Scale	X	Y 0.727.dBm	Function	Function Width	Function Value
1 N 1 f 2 N 1 f	5.788 6 GH 5.850 0 GH	lz -38.04 dBm			
3 N 1 f 4	5.883 2 Gł	lz _35.69 dBm			
5					
	Sep 25, 2023 2:00:04 PM				
		Edge NVNT ax80 5	210MHz L	ow Ant1	
Spectrum Analyzer 1 Swept SA	• +				
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto	Input Ζ: 50 Ω #Atten: Corr CCorr Freq Ref: Int (S)	: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pe Avg Hold: 100 Trig: Free Rui		
1 Spectrum v Scale/Div 10 dB		Ref LvI Offset 1 Ref Level 20.00	1.01 dB dBm		Mkr1 5.185 8 GHz 6.13 dBm
Log 10.0		1			
-10.0			₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	with the many and the second with	
-20.0		holynthin			DL1-27.00 dBm
-40.0 -50.0	awalfannorsen bakensterkentent	\j\\.			. differt and the many second for the d
-60.0					
Start 5.0900 GHz		#Video BW 3.) MHz		Stop 5.2900 GHz
#Res BW 1.0 MHz 5 Marker Table					Sweep 1.00 ms (1001 pts)
Mode Trace Scale	Х	Y	Function	Function Width	Function Value
1 N 1 f	5.185 8 GH				
2 N 1 f 3 N 1 f	5.150 0 GH 5.140 6 GH	Iz -36.29 dBm Iz -32.30 dBm			
4 5					
6					
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	Bar	d Edge N	VNT ax80	5290MHz L	ow Ant1	
Spectrum Analyzer 1 Swept SA	• +	Ŭ				
KEYSIGHT Input: RF RL ↔ LUU Align: Auto	Input Ζ: 50 Ω ## Corr CCorr Freq Ref: Int (S)	tten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: F Avg Hold: 10 Trig: Free Ri	Power (RMS 1 2 3 4 5 6 10/100 M W W W W In P N N N N N	
1 Spectrum v			Ref LvI Offset			Mkr1 5.268 3 GHz
Scale/Div 10 dB			Ref Level 20.0	0 dBm	1	3.53 dBm
0.00					poly was a way and a start	Culture and California
-10.0						
-30.0	2			مىر مىرمەللارىم ئولمەل		Utrilly A to look on
-50.0	∊⋌⋩⋻⋎∼⋴∊⋪ ⋩∁⋹⋐⋠⋪⋩⋣⋬⋬⋲⋺⋉∊⋺⋹⋼∊∊⋞⋏⋏	icasety.com.aty.cale filling.	"~PhO khavdalada k c.a.oo	outdes and a set.		Settlende Hillerholt an Original Inc.
-60.0						
Start 5.0700 GHz #Res BW 1.0 MHz			#Video BW 3	.0 MHz		Stop 5.3700 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale	X 5.268	3 GHz	Y 3.531 dBm	Function	Function Width	Function Value
2 N 1 f	5.150 5.097	0 GHz	-42.72 dBm -39.13 dBm			
4	5.097	6 GHZ	-39.13 dBm			
5 6						
	Sep 25, 2023 3:06:52 PM	\triangle				
	Bar	nd Edge N	VNT ax80	5530MHz L	ow Ant1	
Spectrum Analyzer 1 Swept SA	▼ +					
KEYSIGHT RL ↔ Coupling: DC Align: Auto	Input Z: 50 Ω ## Corr CCorr Freq Ref: Int (S)	tten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: F Avg Hold: 10 Trig: Free Ri		
1 Spectrum v Scale/Div 10 dB			Ref Lvi Offset Ref Level 20.00			Mkr1 5.536 6 GHz 5.40 dBm
Log 10.0					1	
-10.0			prange March Barrow and	*********************	ware and a second and a second	
-20.0		2				DL1-27.00 dBm
-30.0 -40.0 with marship between more and filled	^ֈ ֈֈ _{՟ՠ} ֈՠֈֈֈֈֈֈֈֈՠֈՠֈՠֈՠֈՠֈՠֈֈՠ	aphyr.htyw.yw.hta				Particle Science and a second s
-50.0						
-70.0						
Start 5.4100 GHz #Res BW 1.0 MHz			#Video BW 3	.0 MHz		Stop 5.6100 GHz Sweep 1.00 ms (1001 pts)
5 Marker Table 🔹 🔻						
Mode Trace Scale	X		Y	Function	Function Width	Function Value
1 N 1 f 2 N 1 f 3 N 1 f	5.536 5.470	0 GHz	5.395 dBm -29.02 dBm			
4	5.462	6 GHz	-27.83 dBm			
5 6						
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	Band	Edge NV	NT ax80 50	610MHz H	High Ant1			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF R L +++ Coupling: DC Align: Auto	Input Ζ: 50 Ω #Atter Corr CCorr Freq Ref: Int (S)		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Avg Hold: 1 Trig: Free R	tun M 🗸	2 3 4 5 6 /₩₩₩₩₩ I N N N N		
1 Spectrum		R	ef LvI Offset 11	.20 dB			Mkr1 5.607 2	
Scale/Div 10 dB		R	ef Level 20.00	dBm			5.98 (авт
10.0	protudoundermeturionita	montaged	KANITAN-Handagingaaraa.ir	Jonnalestran				
-10.0	++ [bas				المراجع والمراجع		DL1 -27.	.00 dByg
200 -300 -300 -500 -500 -700					<u>ના પ્રેડ્ડ દુલ્લે</u> ભ્યાપ્ય જાતાં ત	t, s⊶llaphti ana¥a∼ીhf	DL1-27.	undar set
Start 5.5300 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz			Stop 5.730 Sweep 1.00 ms (100	
5 Marker Table 🔹 🔻								
Mode Trace Scale	X 5.607 2 G	11-	Y	Function	Functio	on Width	Function Value	
1 N 1 f 2 N 1 f	5.725 0 G	Hz	5.984 dBm -38.96 dBm					
3 N 1 f 4	5.729 4 G	Hz	-36.17 dBm					
5								
	Sep 25, 2023 2:12:51 PM							X
		Edge NV	NT ax80 5	775MHz	Low Ant1	_		<u>× ×</u>
Spectrum Analyzer 1 Swept SA	• +							
RLAlign: Auto	Input Z: 50 Ω #Atter Corr CCorr		PNO: Fast Gate: Off	#Avg Type:	Power (RMS 1 2			
	Freq Ref: Int (S)		IF Gain: Low Sig Track: Off	Avg Hold: 1 Trig: Free R	tun M 🗸	/₩₩₩₩ N N N N		
	Freq Ref: Int (S)	R	IF Gain: Low	Avg Hold: 1 Trig: Free R	tun M 🗸		Mkr1 5.804 0 6.78 (
DASS 1 Spectrum	Freq Ref: Int (S)	R	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.00 (Avg Hold: 1 Trig: Free R	tun M¥ ₽N	<u>INNNN</u>		
Log Trace Pass 0.00 0.00 0.00		R	IF Gain: Low Sig Track: Off ef LvI Offset 11	Avg Hold: 1 Trig: Free R	tun M 🗸			
Image: Spectrum Image: Spectrum Scale/Div 10 dB Log 100 -200	Freq Ref. Int (S)	R	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.00 (Avg Hold: 1 Trig: Free R	tun M¥ ₽N	<u>INNNN</u>	6.78	dBm
Image: Spectrum Image: Spectrum Scale/Div 10 dB Log 100 Trace 1 Pass 000 100		R	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.00 (Avg Hold: 1 Trig: Free R	tun M¥ ₽N	<u>INNNN</u>		dBm
DV PASS 1 Spectrum Scale/Div 10 dB Log 100 Trace 1 Pass 000 -10.0 -20.0 -30.0 -50.0	3	R	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.00 (Avg Hold: 1 Trig: Free R	tun M¥ ₽N	<u>INNNN</u>	6.78	dBm
Image: Spectrum Image: Spectrum 1 Spectrum Image: Spectrum Scale/Div 10 dB Image: Spectrum Log Image: Spectrum 0.00 Trace 1 Pass 0.00 Image: Spectrum 0	3	R	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.00 (Avg Hold: 1 Trig: Free R	tun M¥ ₽N	<u>INNNN</u>	6.78	dBm
Image: Spectrum Image: Spectrum 1 Spectrum Image: Spectrum 1 Spectrum Image: Spectrum Scale/Div 10 dB Image: Spectrum Log Image: Spectrum 0 0 Trace 1 Pass 0 0 Image: Spectrum -10 0 Image: Spectrum -20 0 Image: Spectrum <td>3</td> <td>R R M</td> <td>IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.00 (</td> <td>Avg Hold: 1 Trig: Free R I.14 dB dBm</td> <td>tun M¥ ₽N</td> <td><u>INNNN</u></td> <td>6.78 (</td> <td>dBm الساسرين 0 GHz</td>	3	R R M	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.00 (Avg Hold: 1 Trig: Free R I.14 dB dBm	tun M¥ ₽N	<u>INNNN</u>	6.78 (dBm الساسرين 0 GHz
Image: Spectrum Image: Spectrum 1 Spectrum Image: Spectrum 1 Spectrum Image: Spectrum Scale/Div 10 dB Image: Spectrum Log Image: Trace 1 Pass 0.00 Image: Trace 1 Pass	3	R R M	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.000	Avg Hold: 1 Trig: Free R I.14 dB dBm	tun M¥ ₽N	<u>INNNN</u>	6.78 (dBm الساسرين 0 GHz
Cxv PASS 1 Spectrum v Scale/Div 10 dB v Log v 100 Trace 1 Pass 0.00 v 200 v 300 v 400 v 500 v 600 v 700 Start 5.6550 GHz #Res BW 1.0 MHz v		R R M	IF Gain: Low Sig Track: Off ef LvI Offset 11 ef Level 20.000 upper de la construction de	Avg[Hold: 1 Trig: Free R I.14 dB dBm	nun P Ν P Ν γγhu-/ν- Οιι Jan-velu	1 N N N N 	6.78 (سیسی العالی العالي العالي العالی العالي br>العالي العالي الع	dBm الساسرين 0 GHz
Log PASS 1 Spectrum V Scale/Div 10 dB V 100 Trace 1 Pass 0.00	× 5.804.0 G	R R A A A A A A A A A A A A A A A A A A	IF Gain: Low Sig Track: Off ef Level 20.000 Level 20.000 d. 100 d. 100 d	Avg Hold: 1 Trig: Free R I.14 dB dBm	nun P Ν P Ν γγhu-/ν- Οιι Jan-velu	<u>INNNN</u>	6.78 (dBm الساسرين 0 GHz
Image: Spectrum Image: Spectrum 1 Spectrum Image: Spectrum 1 Scale/Div 10 dB Image: Spectrum 1 Og Image: Trace 1 Pass 2 Og Image: Trace 1 Pass	X 5.804 0 G 5.725 0 G	R R V V V V V V V V V V V V V V V V V V	IF Gain: Low Sig Track: Off of Level 20.00 	Avg[Hold: 1 Trig: Free R I.14 dB dBm	nun P Ν P Ν γγhu-/ν- Οιι Jan-velu	1 N N N N 	6.78 (سیسی العالی العالي العالي العالی العالي br>العالي العالي الع	dBm الساسرين 0 GHz
Lvg PASS 1 Spectrum V Scale/Div 10 dB V Log Trace 1 Pass 0.00	× 5.804.0 G	R R V V V V V V V V V V V V V V V V V V	IF Gain: Low Sig Track: Off ef Level 20.000 Level 20.000 How State Wideo BW 3.0 Comparison 6.777 dBm -30.84 dBm	Avg[Hold: 1 Trig: Free R I.14 dB dBm	nun P Ν P Ν γγhu-/ν- Οιι Jan-velu	1 N N N N 	6.78 (سیسی العالی العالي العالي العالی العالي br>العالي العالي الع	dBm السريمية 0 GHz
Log Trace 1 Pass 100 Trace 1 Pass 0.00 Trace 1 Pass 5500 Trace 1 Pass 500 Trace 2 Pass 500 Trace 2 Pass 500 Trace 2 Pass <td>X 5.804 0 G 5.725 0 G</td> <td>R R V V V V V V V V V V V V V V V V V V</td> <td>IF Gain: Low Sig Track: Off ef Level 20.000 Level 20.000 How State Wideo BW 3.0 Comparison 6.777 dBm -30.84 dBm</td> <td>Avg[Hold: 1 Trig: Free R I.14 dB dBm</td> <td>nun P Ν P Ν γγhu-/ν- Οιι Jan-velu</td> <td>1 N N N N </td> <td>6.78 (سیسی العالی العالي العالي العالی العالي br/>العالي العالي الع</td> <td>dBm ۱۰۰۰</td>	X 5.804 0 G 5.725 0 G	R R V V V V V V V V V V V V V V V V V V	IF Gain: Low Sig Track: Off ef Level 20.000 Level 20.000 How State Wideo BW 3.0 Comparison 6.777 dBm -30.84 dBm	Avg[Hold: 1 Trig: Free R I.14 dB dBm	nun P Ν P Ν γγhu-/ν- Οιι Jan-velu	1 N N N N 	6.78 (سیسی العالی العالي العالي العالی العالي br>العالي العالي الع	dBm ۱۰۰۰

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Undesirable emission limits (below 1GHz) 6.7

Test Requirement:	47 CFR Part 15.407(b)(9)						
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6						
	Unwanted emissions below limits set forth in § 15.209.	1 GHz must comply with the	e general field strength				
	Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:						
Toot Limite	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (matera)				
Test Limit:	0.009-0.490	$2400/E(k _{7})$	(meters)				
	0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
Procedure:	above the ground at a 3 me degrees to determine the p b. The EUT was set 3 or 10 which was mounted on the c. The antenna height is va determine the maximum va polarizations of the antenna d. For each suspected emis the antenna was tuned to h of below 30MHz, the antenna was turned from 0 degrees e. The test-receiver system Bandwidth with Maximum H f. If the emission level of the specified, then testing could reported. Otherwise the em re-tested one by one using data sheet. g. Test the EUT in the lowe h. The radiation measurem Transmitting mode, and fou i. Repeat above procedures Remark: 1. Level= Read Level+ Cat 2. Scan from 9kHz to 30MH points marked on above plot testing, so only above point emissions from the radiator need not be reported. 3. The disturbance below 1	T was placed on the top of a ster semi-anechoic chamber, osition of the highest radiation meters away from the interf top of a variable-height anter ried from one meter to four r lue of the field strength. Both a are set to make the measu asion, the EUT was arranged eights from 1 meter to 4 met na was tuned to heights 1 met to 360 degrees to find the m was set to Peak Detect Fun- fold Mode. e EUT in peak mode was 10 d be stopped and the peak v issions that did not have 100 quasi-peak method as spec st channel, the middle chanr ents are performed in X, Y, Z and the X axis positioning wh is until all frequencies measu ble Loss+ Antenna Factor- Pr fz, the disturbance below 30 ots are the highest emissions is had been displayed. The a which are attenuated more GHz was very low and the h testing, so only the above ha	The table was rotated 360 on. ference-receiving antenna, enna tower. meters above the ground to h horizontal and vertical rement. d to its worst case and then ters (for the test frequency eter) and the rotatable table haximum reading. fetion and Specified dB lower than the limit alues of the EUT would be dB margin would be ified and then reported in a hel, the Highest channel. Z axis positioning for hich it is the worst case. red was complete. reamp Factor MHz was very low. The s could be found when amplitude of spurious than 20dB below the limit armonics were the highest				

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B

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360
degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which
was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to
determine the maximum value of the field strength. Both horizontal and vertical
polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then
the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency
of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table
was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit
specified, then testing could be stopped and the peak values of the EUT would be
reported. Otherwise the emissions that did not have 10dB margin would be
re-tested one by one using peak or average method as specified and then reported
in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
h. The radiation measurements are performed in X, Y, Z axis positioning for
Transmitting mode, and found the X axis positioning which it is the worst case.
i. Repeat above procedures until all frequencies measured was complete.
Remark:
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz 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.
3. As shown in this section, for frequencies above 1GHz, the field strength limits
are based on average limits. However, the peak field strength of any emission shall
not exceed the maximum permitted average limits specified above by more than 20
dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the
highest point could be found when testing, so only the above harmonics had been
displayed.

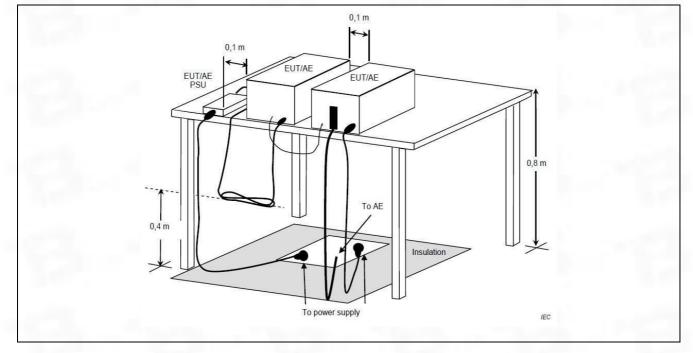
6.7.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

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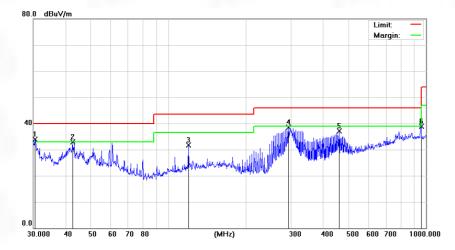
6.7.2 Test Setup Diagram:





6.7.3 Test Data:

Note: All the mode have been tested, and only the worst case mode are in the report Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: L

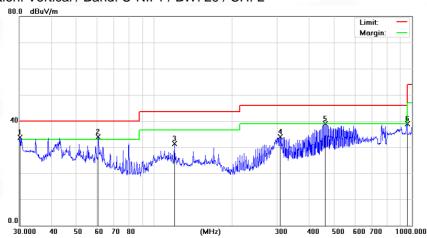


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	30.4238	31.70	2.20	33.90	40.00	-6.10	QP
2		42.6000	29.68	3.13	32.81	40.00	-7.19	QP
3		119.8556	30.58	1.16	31.74	43.50	-11.76	QP
4		293.0842	36.57	2.03	38.60	46.00	-7.40	QP
5		460.7271	31.22	5.87	37.09	46.00	-8.91	QP
6		958.7943	23.74	15.18	38.92	46.00	-7.08	QP

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Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: L

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	İ	30.2111	50.36	-16.61	33.75	40.00	-6.25	QP
2	*	60.7044	50.64	-16.70	33.94	40.00	-6.06	QP
3		119.8556	48.20	-16.83	31.37	43.50	-12.13	QP
4		308.9126	51.02	-17.07	33.95	46.00	-12.05	QP
5		460.7271	56.06	-17.06	39.00	46.00	-7.00	QP
6		958.7943	53.22	-14.30	38.92	46.00	-7.08	QP

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6.8 Undesirable emission limits (above 1GHz)

	47 CFR Part 15.407(b)	-						
	47 CFR Part 15.407(b)							
Test Requirement:	47 CFR Part 15.407(b)							
	47 CFR Part 15.407(b)							
Test Method:		ction 12.7.4, 12.7.5, 12	.7.6					
		ting in the 5.15-5.25 GH		sions outside of the				
		nall not exceed an e.i.r.						
		ting in the 5.25-5.35 GH						
		nall not exceed an e.i.r.						
	For transmitters operat	ting solely in the 5.725-	5 850 GHz banc	ı.				
		limited to a level of -27						
		e increasing linearly to						
		and from 25 MHz above						
		.6 dBm/MHz at 5 MHz a						
		elow the band edge inc						
	dBm/MHz at the band		0 ,					
	MHz	MHz	MHz	GHz				
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
	4.20725-4.20775	73-74.6	1645.5-1646. 5	9.3-9.5				
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
	6.26775-6.26825	108-121.94	1718.8-1722.	13.25-13.4				
			2					
Test Limit:	6.31175-6.31225	123-138	2200-2300	14.47-14.5				
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
	8.362-8.366	156.52475-156.525 25	2483.5-2500	17.7-21.4				
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
	12.57675-12.57725	322-335.4	3600-4400	(²)				
	13.36-13.41							
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6							
	The field stress athen (viccione encoder 10	in these from the	av handa ahall sat				
		nissions appearing with						
		n in § 15.209. At freque						
		the limits in § 15.209sh						
		entation employing a CI with the emission limit						
		based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.						
		ewhere in this subpart,						
	radiator shall not excee	ed the field strength lev						
	Frequency (MHz)	Field strength		Measurement				

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Test Report Number: BTF230918R00204



		(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
		200 **	
	216-960		3
	Above 960 Above 1GHz:	500	3
Procedure:	 above the ground at a degrees to determine b. The EUT was set 3 was mounted on the tot. The antenna height determine the maximul polarizations of the and. For each suspected the antenna was turned from 0 degree. The test-receiver sy Bandwidth with Maxim f. If the emission level specified, then testing reported. Otherwise the re-tested one by one unin a data sheet. g. Test the EUT in the h. The radiation meas Transmitting mode, arr i. Repeat above proce Remark: 1. Level= Read Level-2. Scan from 18GHz to points marked on above testing, so only above emissions from the radiation the average limit, 4. The disturbance above limit,	e EUT was placed on the top of 3 meter fully-anechoic chamber the position of the highest radiati meters away from the interferen op of a variable-height antenna to is varied from one meter to four im value of the field strength. Bo- tenna are set to make the measu lemission, the EUT was arrange d to heights from 1 meter to 4 me intenna was tuned to heights 1 m grees to 360 degrees to find the r stem was set to Peak Detect Fu- num Hold Mode. of the EUT in peak mode was 10 could be stopped and the peak the emissions that did not have 10 using peak or average method as lowest channel, the middle chan urements are performed in X, Y, ad found the X axis positioning w dures until all frequencies measu - Cable Loss+ Antenna Factor- Fo 40GHz, the disturbance above ve plots are the highest emission points had been displayed. The diator which are attenuated more ction, for frequencies above 1GH limits. However, the peak field st um permitted average limits spect n of modulation. For the emission only the peak measurement is so ove 18GHz were very low and the found when testing, so only the	. The table was rotated 360 ion. ce-receiving antenna, which ower. meters above the ground to th horizontal and vertical urement. d to its worst case and then eters (for the test frequency neter) and the rotatable table maximum reading. nction and Specified OdB lower than the limit values of the EUT would be OdB margin would be a specified and then reported anel, the Highest channel. Z axis positioning for hich it is the worst case. ured was complete. Preamp Factor 18GHz was very low. The as could be found when amplitude of spurious a than 20dB below the limit tz, the field strength limits trength of any emission shall cified above by more than 20 ns whose peak level is lower shown in the report. te harmonics were the

6.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

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Page 70 of 290



6.8.2 Test Data:

Note: All the mode have been tested, and only the worst case mode are in the report

Гиса	Low channel: 5180MHz								
Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
	H/V	PK	AV	PK	AV	PK	AV		
10360	V	60.64	41.21	74	54	-13.36	-12.79		
15540	V	59.95	40.35	74	54	-14.05	-13.65		
10360	Н	58.23	39.36	74	54	-15.77	-14.64		
15540	Н	58.61	39.61	74	54	-15.39	-14.39		

Freq. (MHz)	Low channel: 5180MHz						
	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
10360	V	58.58	41.13	74	54	-15.42	-12.87
15540	V	59.67	39.61	74	54	-14.33	-14.39
10360	Н	59.60	39.59	74	54	-14.40	-14.41
15540	Н	59.03	40.03	74	54	-14.97	-13.97

Freq. (MHz)	Low channel: 5180MHz						
	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
10360	V	60.71	39.37	74	54	-13.29	-14.63
15540	V	59.94	39.32	74	54	-14.06	-14.68
10360	Н	59.93	39.77	74	54	-14.07	-14.23
15540	Н	58.41	39.41	74	54	-15.59	-14.59

Freq. (MHz)	Low channel: 5180MHz							
	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
	H/V	PK	AV	PK	AV	PK	AV	
10360	V	60.17	40.55	74	54	-13.83	-13.45	
15540	V	59.14	40.90	74	54	-14.86	-13.10	
10360	Н	59.35	39.71	74	54	-14.65	-14.29	
15540	Н	58.23	39.23	74	54	-15.77	-14.77	

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.

2. Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$

Corr. Factor (dB) = Attenuation factor + Cable loss

Level $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Level (dB μ V) – Limits (dB μ V)

3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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