

SUCR241200051806 Report No.:

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TEST REPORT

Application No.: SUCR2412000518IT

Applicant: Wacom Co., Ltd

Address of Applicant: 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan

Manufacturer: Wacom Co., Ltd

Address of Manufacturer: 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan

EUT Description: Portable Pad

Model No.: DTHA116, DTHA116******("*" maybe alphanumeric/symbol or blank)

Trade Mark: Wacom

FCC ID: HV4DTHA116

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: December 4, 2024

Date of Test: December 14, 2024 to January 13, 2025

Date of Issue: January 23, 2025

Test Result: PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified

Prepared by: Nature Shen/ Project Manager

Nature Shen

Approved by: Cloud Peng/ **Technical Manager**

Cloud Peng

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Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		January 23, 2025		Original	

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Test Summary

Tost						
Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result	Lab ^[2]
Antenna Requirement		15.203/15.407(a)		Clause 3.1	PASS	
26dB Emission Bandwidth	Band I Band II-A	15.407(a)(1) 15.407(a)(2)	No limit.	Clause 3.5	For Report	Α
	Band II-C	15.407(a)(2)			Purpose	
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 3.6	PASS	Α
99% Occupied Bandwidth	Band II-A Band II-C Band III	KDB 789033 D02§ D	No limit.	Clause 3.7	For Report Purpose	Α
Duty Cycle	Band I Band II-A Band II-C Band III		No limit.	Clause 3.3	For Report Purpose	Α
Massinasson	Band I	15.407(a)(iv)	< 250mW			
Maximum Conducted Output Power	Band II-A Band II-C	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause 3.4</td><td>PASS</td><td>Α</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause 3.4	PASS	Α
Output Fower	Band III	15.407(a)(3)	.407(a)(3) < 1W			
	Band I	15.407(a)(iv)	<11dBm/MHz			
Maximum Power	Band II-A	15.407(a)(2)	<11dBm/MHz	Clause	PASS	Α
Spectral Density	Band II-C	15.407 (a)(2)	<1 Tubili/ivii iz	3.8	FASS	A
	Band III	15.407(a)(3)				
	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15- 5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
Radiated Spurious Emissions	Band II-A	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25- 5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 3.9	PASS	С
	Band II-C	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47- 5.725 GHz).		PASS	

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Test Item	Band ^[1] FCC rules No.		Test Requirements	Test Result	Result	Lab ^[2]
	Band III	15.407(b) 15.205/15.209	F≥1GHz & in-restricted: §15.209 limit (AV&PK). F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge, and edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and edge, and edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted:		PASS	
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209	§15.209 limit (AV&PK).	Clause 3.10	PASS	С
AC Power Line Conducted Emissions Band II-A Band II-C Band III		15.207		Clause 3.2	PASS	С
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 3.11	PASS	А
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A	N/A

Note 1:

Note 2:

Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz

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Test Band^[1] FCC rules No. Lab^[2] **Test Item Test Requirements** Result Result Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Lab B SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Lab C SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.

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2 General Information

2.1 Details of Client

Applicant:	Wacom Co., Ltd
Address of Applicant:	2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan
Manufacturer:	Wacom Co., Ltd
Address of Manufacturer:	2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan

2.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song
Lab C:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Leah Chen,Ken Liu,Andy Yao

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Wireless Laboratory

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2.3 Test Facility

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

Lab A:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

Lab C:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

Designation Number: CN1337.

Test Firm Registration Number: 917410

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2.4 General Description of EUT

EUT Description:	Portable Pad			
Model No.:	DTHA116, DTHA116*******("*" maybe alphanumeric/symbol or blank)			
Trade Mark:	Wacom			
Hardware Version:	V3			
Software Version:	1V01SU.03	1V01SU.03.00.00		
Power Supply:	3.45~4.33V	/, typ3.86V		
	802.11a:	20 MHz channel bandwidth		
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz channel bandwidth		
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth		
Operation Frequency:	5150MHz to 5250MHz to 5470MHz to 5725MHz to	o 5350MHz o 5725MHz		
	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	20MHz:	802.11a/n(HT20)/ac(VHT20		
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	802.11ac(VHT80)		
Antenna Type:	Cavity Ante	enna		
Antenna Gain:	5150MHz to 5250MHz: 1.56dBi; 5250MHz to 5350MHz: 0.4dBi; 5470MHz to 5725MHz: 2.6dBi; 5725MHz to 5850MHz: 2.47dBi;			
Note: The antenna gain are derived from the gain information report provided by manufacturer.				
	⊠ SISO	802.11a/n/ac		
		CDD: 802.11a/n/ac: Tx & Rx		
Smart System:		STBC: 802.11n/ac: Tx & Rx		
		TXBF: 802.11n/ac: Tx & Rx		
	☐ Diversity	/ 802.11a: Tx & Rx		

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TPC Function:	⊠Support,			
Use Conditions:	Client devices			
DFS Function:	□Master			
DES FUNCTION.	☐Slave with radar detection	⊠Slave without radar detection		
RF Cable*:	1dB			
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:				
-	bove information is provided and confirmed by the applicant. SGS is not liable to the accuracy,			

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5180		
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200		
	The Highest channel	5240		
IEEE 802.11n/ac 40MHz	The Lowest channel	5190		
	The Highest channel	5230		
IEEE 802.11ac 80MHz	The Middle channel	5210		

For UNII Band II-A:				
Mode	Channel	Frequency(MHz)		
IEEE 802.11a/n/ac/ 20MHz	The Lowest channel	5260		

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	The Middle channel	5280
	The Highest channel	5320
IEEE 000 44 m/s = 40MHz	The Lowest channel	5270
IEEE 802.11n/ac 40MHz	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290

For UNII Band II-C:							
Mode	Channel	Frequency(MHz)					
	The Lowest channel	5500					
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580					
	The Highest channel	5700					
	The Lowest channel	5510					
IEEE 802.11n/ac 40MHz	The Middle channel	5550					
	The Highest channel	5670					
IEEE 802.11ac 80MHz	The Middle channel	5530					

For UNII Band III:							
Mode Channel Frequency(MHz)							
	The Lowest channel	5745					
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785					
	The Highest channel	5825					
JEEE 902 445/00 40MHz	The Lowest channel	5755					
IEEE 802.11n/ac 40MHz	The Highest channel	5795					
IEEE 802.11ac 80MHz	The Middle channel	5775					

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2.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests				
Relative Humidity	44-46 % RH Ambient				
Value	Temperature(°C)	Voltage(V)			
NTNV	22~23 3.86				

Remark:

Normal Voltage NV: NT: Normal Temperature

2.6 Description of Support Units

Description	Manufacturer	Model No.			
USB cable	HUIZHOU WASHIN ELECTRONICS CO.,LTD	HX-HQ-28			
Remark: all above the information of table are provided by client.					

2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/

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3 **Test results and Measurement Data**

3.1 Antenna Requirement

47 CFR Part 15 Section 15.203 Standard requirement:

The antenna is Cavity Antenna and no consideration of replacement. The best case gain of the antenna is

5150MHz to 5250MHz: 1.56dBi; 5250MHz to 5350MHz: 0.4dBi: 5470MHz to 5725MHz: 2.6dBi: 5725MHz to 5850MHz: 2.47dBi;

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

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3.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207						
Test Method:	ANSI C63.10: 2013 Section 6.2						
Test Frequency Range:	150kHz to 30MHz						
Receiver Setup:	RBW = 9kHz, VBW = 30)kHz					
Limit:	Limit (dBuV)						
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the log	arithm of the frequency.					
Test Procedure:	room. 2) The EUT was connected to a second plane in the same was multiple socket outled single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizon of the EUT shall be overtical ground reference plane. The unit under test and be mounted on top of the between the closest the EUT and associated.	cted to AC power source thro- ction Network) which provides wer cables of all other units of and LISN 2, which was bonded by as the LISN 1 for the unit by a strip was used to connect m the rating of the LISN was no as placed upon a non-metallic ane. And for floor-standing arrantal ground reference plane, and with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m fro conded to a ground reference a ground reference plane. The points of the LISN 1 and the E tted equipment was at least 0 aximum emission, the relative the interface cables must be an conducted measurement.	ugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were to the ground reference being measured. A ultiple power cables to a context to the ground reference being measured. A ultiple power cables to a context to the expect to t				

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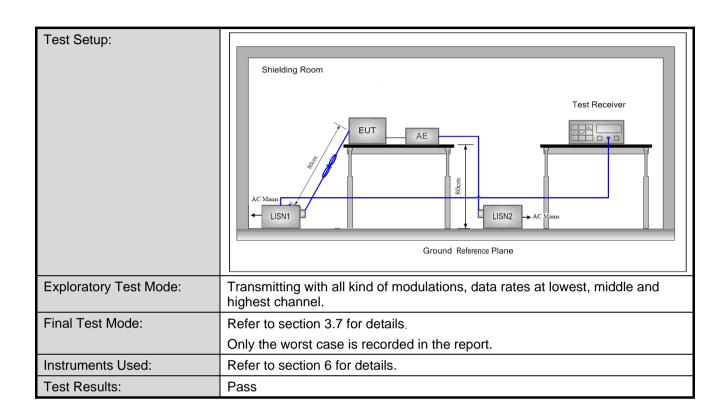
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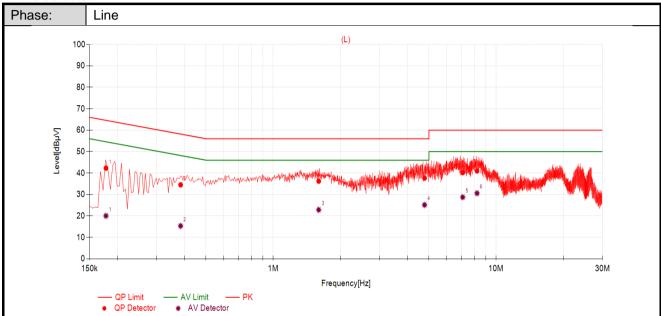
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data l	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1777	9.85	32.44	42.29	64.59	22.30	10.18	20.03	54.59	34.56	PASS
2	0.3843	9.86	24.64	34.50	58.19	23.69	5.47	15.33	48.19	32.86	PASS
3	1.6006	9.84	26.39	36.23	56.00	19.77	13.01	22.85	46.00	23.15	PASS
4	4.7794	9.89	27.77	37.66	56.00	18.34	15.24	25.13	46.00	20.87	PASS
5	7.0894	9.91	30.29	40.20	60.00	19.80	18.83	28.74	50.00	21.26	PASS
6	8.2182	9.94	31.05	40.99	60.00	19.01	20.64	30.58	50.00	19.42	PASS

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]

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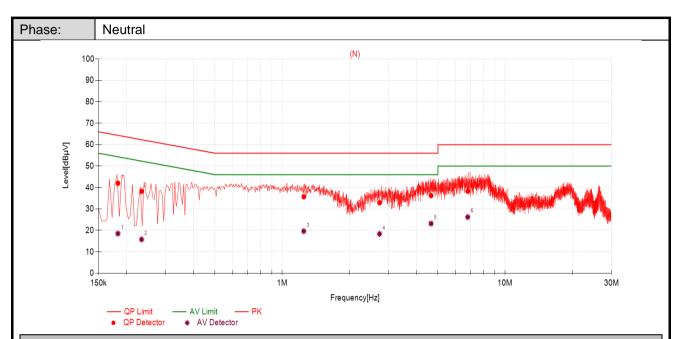
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Data I	List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1832	9.82	32.20	42.02	64.34	22.32	8.70	18.52	54.34	35.82	PASS
2	0.2340	9.83	28.40	38.23	62.31	24.08	5.95	15.78	52.31	36.53	PASS
3	1.2503	9.81	25.89	35.70	56.00	20.30	9.84	19.65	46.00	26.35	PASS
4	2.7347	9.95	22.95	32.90	56.00	23.10	8.42	18.37	46.00	27.63	PASS
5	4.6568	9.98	26.25	36.23	56.00	19.77	13.21	23.19	46.00	22.81	PASS
6	6.8042	10.06	28.26	38.32	60.00	21.68	16.15	26.21	50.00	23.79	PASS
_											

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dBµV] Value[dBµV]

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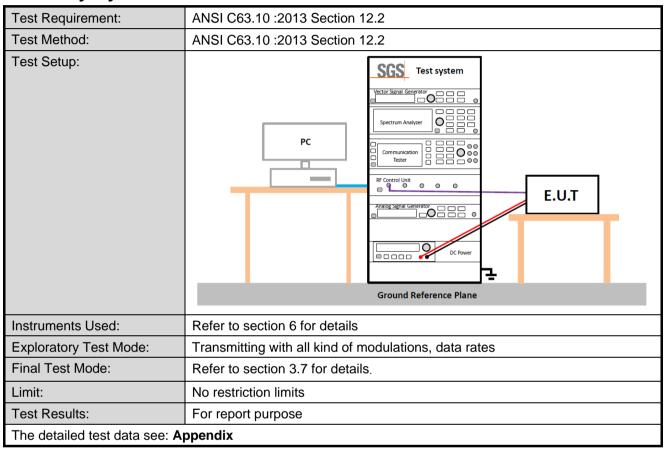


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3.3 Duty Cycle



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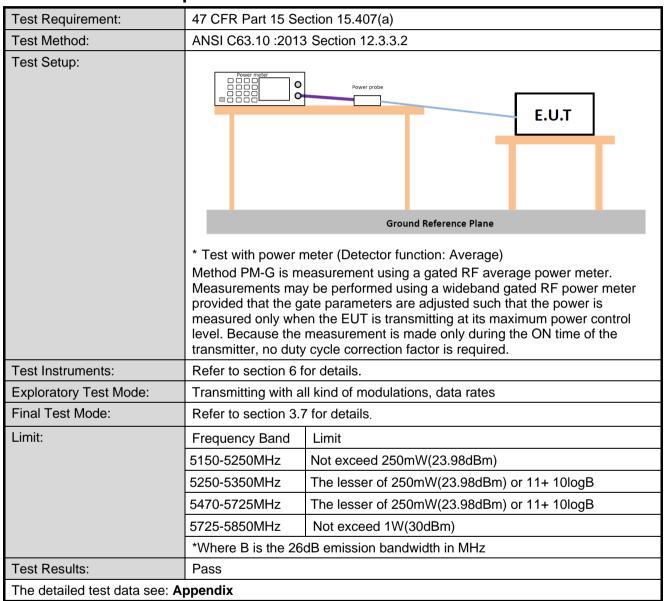


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3.4 Conducted Output Power



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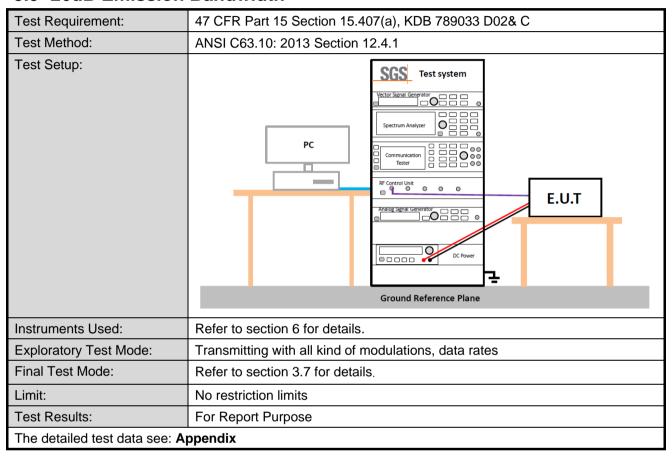


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3.5 26dB Emission Bandwidth



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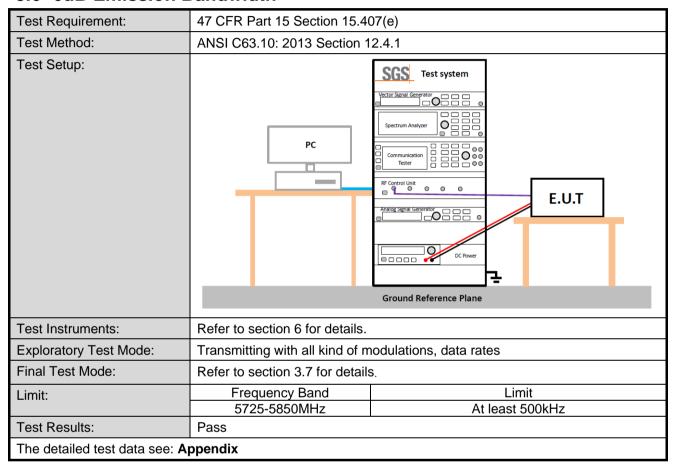


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3.6 6dB Emission Bandwidth



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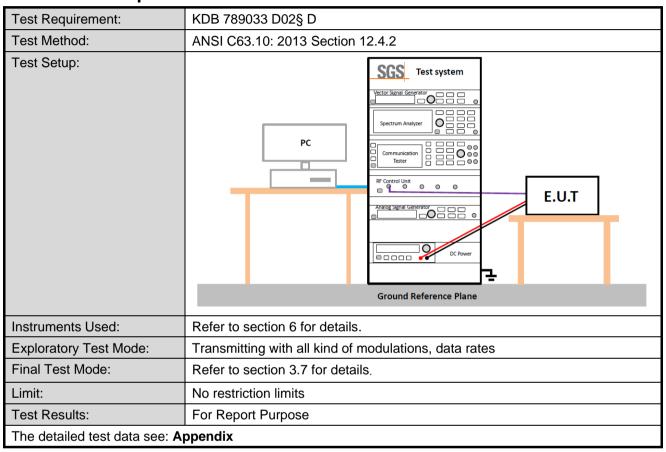


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3.7 99% Occupied Bandwidth



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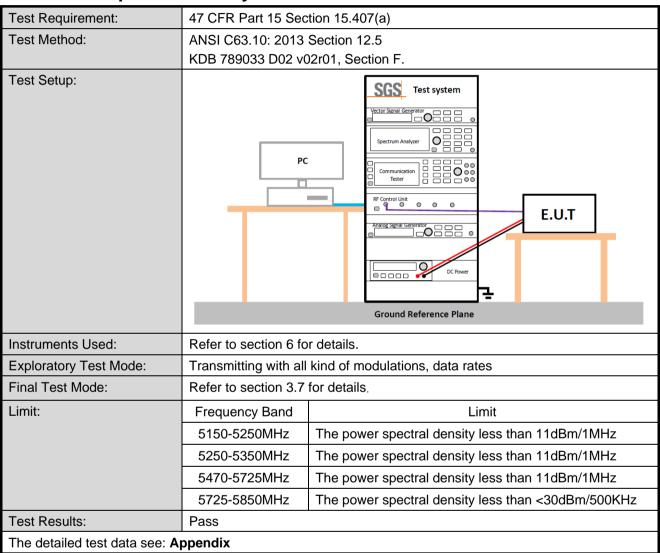


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3.8 Power Spectral Density



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3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

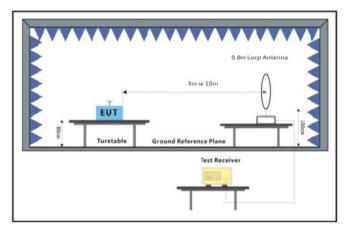
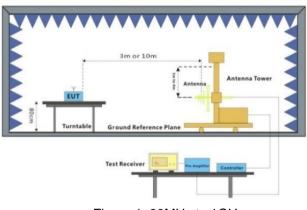


Figure 1. 9kHz to 30MHz



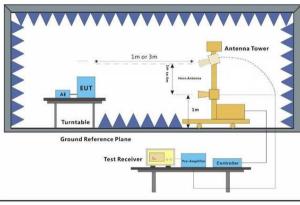


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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	(Distance from antenna to EUT is 1m for measurements >18GHz).
	c. The EUT was set 3 or 10 meters away from the interference-receiving
	antenna, which was mounted on the top of a variable-height antenna tower.
	d. 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.
	e. For each suspected emission, the EUT was arranged to its worst case and
	then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Test the EUT in the outermost channels.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	K. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	• VBW = 30 kHz
	Detector = Peak & Average & Quasi-peak
	• Trace mode = max hold
	Measurements Below 1000MHz
	• RBW = 120 kHz • VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold

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Average Measurements Above 1000MHz

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	 RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix

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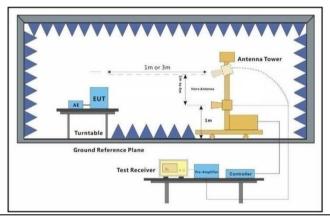
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3.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.	47 CFR Part 15 Section 15.407(b)					
Test Method:	ANSI C63.10: 2013 Section	12.7					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	per)				
Limit:	Frequency	Frequency Limit (dBuV/m) Remark					
	30MHz-88MHz	30MHz-88MHz 40.0 Quasi-peak					
	88MHz-216MHz	88MHz-216MHz 43.5 Quasi-peak					
	216MHz-960MHz	216MHz-960MHz 46.0 Quasi-peak					
	960MHz-1GHz	960MHz-1GHz 54.0 Quasi-peak					
	54.0 Average						
	Above 1GHz	74.0	Peak Value				

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna. which was mounted on the top of a variable-height antenna tower.
- 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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	 f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 1 MHz • VBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	: Appendix

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3.11 Dynamic Frequency Selection

3.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode			
	Master	Client Without Radar Detection	Client With Radar Detection	
Non-Occupancy Period	Yes	Not required	Yes	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Availability Check Time	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational	Operational Mode		
	Master Device or Client with Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

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Additional requirements for devices with	Master Device or Client with	Client Without Radar
multiple bandwidth modes	Radar Detection	Detection
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required
Performance Check		
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest
Transmission Time	available	BW mode available for
		the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

3.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm
requirement	

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

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3.11.3 RADAR TEST WAVEFORMS

Table 5 - Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum	
Type	(µsec)	(µsec)		Percentage of	Number of	
				Successful	Trials	
				Detection		
0	1	1428	18	See Note 1	See Note 1	
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ $	60%	30	
2	1-5	150-230	23-29	60%	30	
3	6-10	200-500	16-18	60%	30	
4	11-20	200-500	12-16	60%	30	
Aggregate (Radar Types 1-	4)		80%	120	
NT 4 CH 4 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D						

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	uency (Pulses Per Second)	
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful	Minimum Percentage	
		Detections	of Successful	
			Detection	
1	35	29	82.9%	
2	30	18	60%	
3	30	27	90%	
4	50	44	88%	
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$				

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Table 6 - Long Pulse Radar Test Waveform

Radar Type	Pulse Width	Chirp Width	PRI (μsec)	Number of Pulses	Number of <i>Bursts</i>	Minimum Percentage of	Minimum Number of
	(µsec)	(MHz)		per Burst		Successful Detection	Trials
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Table 7 - Frequency Hopping Radar Test Waveform

Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
			_		(msec)	Detection	
6	1	333	9	0.333	300	70%	30

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3.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: Appendix

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4 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:		
No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	1%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1%

Lab C:

No.	Item Measurement Uncertainty				
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)			
2	Radiated Emission	± 4.6dB (9KHz~30MHz)			
		± 4.9dB (30MHz~1GHz)			
		± 4.9dB (1GHz to 6GHz)			
		± 4.7dB (6GHz to 18GHz)			
		± 5.26dB (Above 18GHz)			

Remark:

The Ulab Uncertainty) is less than UcispiteTSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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Equipment List

Lab A:								
RF Test Equipment								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/9	2025/11/8			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/2/18	2025/2/17			
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2024/5/8	2025/5/7			
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/5/8	2025/5/7			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2024/5/9	2025/5/8			
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2024/2/4	2025/2/3			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/2/4	2025/2/3			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2024/11/19	2025/11/18			
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2024/11/19	2025/11/18			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/2/4	2025/2/3			
Router	ASUS	GT- AXE11000(FCC ID MSQ- RTAXJF00)	SUWI-03-14-02	NCR	NCR			
Router	TP-LINK	Archer BE800 (FCC ID 2AXJ4BE800)	SUWI-03-14-03	NCR	NCR			
RF Control Unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR			
RF Control Unit	TST	TSCB3023R2	SUWI-02-21-01	NCR	NCR			
Signal Generator	ROHDE&SCHWARZ	SMM100A	SUWI-01-07-04	20242/16	2025/2/15			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/19	2025/11/18			

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Lab C:									
CE Test System									
Equipment Manufacturer Model No. Inventory No. Cal Date Date									
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A				
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28				
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2024/7/3	2025/7/2				
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2				
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR				
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13				
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15				
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2024/7/3	2025/7/2				

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Lab C:											
	RSE Test Equipment										
Equipment	Manufacturer	Inventory No.	Cal Date	Cal Due Date							
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2024/6/4	2027/6/3						
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2024/2/2	2025/2/1						
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	XAW01-13-05	2024/5/8	2025/5/7						
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28						
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/7/28	2025/7/27						
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/7/28	2025/7/27						
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/7/23	2025/7/22						
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR						
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR						
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR						
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR						
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2024/5/14	2025/5/13						
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2024/8/29	2025/8/28						
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2024/8/16	2025/8/15						
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2024/8/29	2025/8/28						
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2						
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13						
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15						
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR						
Radio Communication Analyzer	ANRITSU	MT8821	XAW01-03-24	2024/8/16	2025/8/15						
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2024/5/23	2026/5/22						

Remark: NCR=No Calibration Requirement.

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6 **Photographs - Setup Photos**

Refer to Appendix A.2 BT&WLAN&EMR Setup Photos.

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7 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
802.11a	SISO	5180	1.392	1.428	97.48	0.11	0.03			
802.11n (HT20)	SISO	5180	1.300	1.336	97.31	0.12	0.04			
802.11n (HT40)	SISO	5190	0.649	0.684	94.88	0.23	0.03			
802.11ac (VHT20)	SISO	5180	1.312	1.348	97.33	0.12	0.03			
802.11ac (VHT40)	SISO	5190	0.652	0.687	94.91	0.23	0.03			
802.11ac (VHT80)	SISO	5210	0.324	0.359	90.25	0.45	0.04			

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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied B	andwidth (MHz)	Verdict
WIOGE	Type	(MHz)	ANI	Result	Limit	Verdict
		5180	1	17.743	/	Pass
		5200	1	17.750	/	Pass
		5240	1	17.720	/	Pass
		5260	1	17.679	/	Pass
		5300	1	17.741	/	Pass
000 110	SISO	5320	1	17.336	/	Pass
802.11a	3130	5500	1	17.722	/	Pass
		5580	1	17.857	/	Pass
		5700	1	17.824	/	Pass
		5745	1	17.805	/	Pass
		5785	1	17.937	/	Pass
		5825	1	18.032	/	Pass
		5180	1	18.345	/	Pass
		5200	1	18.324	/	Pass
		5240	1	18.342	/	Pass
	SISO	5260	1	18.307	/	Pass
		5300	1	18.333	/	Pass
802.11n		5320	1	18.277	/	Pass
(HT20)		5500	1	18.339	/	Pass
, ,		5580	1	18.381	/	Pass
		5700	1	18.392	/	Pass
		5745	1	18.407	/	Pass
		5785	1	18.377	/	Pass
		5825	1	18.394	/	Pass
		5190	1	37.014	/	Pass
		5230	1	36.979	/	Pass
		5270	1	37.067	/	Pass
000.44		5310	1	37.109	/	Pass
802.11n	SISO	5510	1	36.985	/	Pass
(HT40)		5550	1	36.822	/	Pass
		5670	1	37.013	/	Pass
		5755	1	37.038	/	Pass
		5795	1	36.999	/	Pass
		5180	1	18.154	/	Pass
		5200	1	18.189	/	Pass
000.44		5240	1	18.184	/	Pass
802.11ac	SISO	5260	1	18.162	/	Pass
(VHT20)		5300	1	18.133	/	Pass
		5320	1	18.136	/	Pass
		5500	1	18.179	/	Pass

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		5580	1	18.196	/	Pass
		5700	1	18.193	/	Pass
		5745	1	18.220	/	Pass
		5785	1	18.159	/	Pass
		5825	1	18.173	/	Pass
		5190	1	36.702	/	Pass
		5230	1	36.619	/	Pass
		5270	1	36.636	/	Pass
000 1100		5310	1	36.669	/	Pass
802.11ac (VHT40)	SISO	5510	1	36.699	/	Pass
(VH140)		5550	1	36.709	/	Pass
		5670	1	36.732	/	Pass
		5755	1	36.780	/	Pass
		5795	1	36.667	/	Pass
·		5210	1	75.348	/	Pass
802.11ac	SISO	5290	1	75.346	/	Pass
(VHT80)	3130	5530	1	75.296	/	Pass
		5775	1	75.459	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict
	Type	(MHz)	AINT	Result	Limit	verdict
		5745	1	15.180	>=0.5	Pass
802.11a	SISO	5785	1	15.184	>=0.5	Pass
		5825	1	15.375	>=0.5	Pass
802.11n		5745	1	15.183	>=0.5	Pass
(HT20)	SISO	5785	1	15.191	>=0.5	Pass
(П120)		5825	1	15.189	>=0.5	Pass
802.11n	SISO	5755	1	35.168	>=0.5	Pass
(HT40)	3130	5795	1	35.172	>=0.5	Pass
802.11ac		5745	1	15.184	>=0.5	Pass
(VHT20)	SISO	5785	1	15.189	>=0.5	Pass
(٧١١٧)		5825	1	15.188	>=0.5	Pass
802.11ac	SISO	5755	1	35.174	>=0.5	Pass
(VHT40)	3130	5795	1	35.175	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.184	>=0.5	Pass

2.1.3 26dB BW

Mode	TX	TX Frequency		26dB Bandy	Verdict	
Type	(MHz)	ANT	Result	Limit	verdict	
	5180	1	22.165	/	Pass	
802.11a	SISO	5200	1	23.221	/	Pass
602.11a SISO	3130	5240	1	23.077	/	Pass
		5260	1	24.874	/	Pass

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		5300	1	23.339	/	Pass
		5320	1	20.044	/	Pass
		5500	1	23.348	/	Pass
		5580	1	23.803	/	Pass
		5700	1	25.548	/	Pass
		5180	1	20.383	/	Pass
		5200	1	20.447	/	Pass
		5240	1	20.330	/	Pass
000.44		5260	1	20.391	/	Pass
802.11n	SISO	5300	1	20.385	/	Pass
(HT20)		5320	1	20.372	/	Pass
		5500	1	20.343	/	Pass
		5580	1	20.286	/	Pass
		5700	1	20.334	/	Pass
		5190	1	41.842	/	Pass
		5230	1	40.935	/	Pass
000 44.5		5270	1	41.101	/	Pass
802.11n	SISO	5310	1	41.187	/	Pass
(HT40)		5510	1	40.666	/	Pass
		5550	1	40.964	/	Pass
		5670	1	40.929	/	Pass
		5180	1	20.430	/	Pass
		5200	1	20.466	/	Pass
		5240	1	20.372	/	Pass
000 44		5260	1	20.449	/	Pass
802.11ac	SISO	5300	1	20.361	/	Pass
(VHT20)		5320	1	20.378	/	Pass
		5500	1	20.356	/	Pass
		5580	1	20.401	/	Pass
		5700	1	20.539	/	Pass
		5190	1	41.175	/	Pass
		5230	1	41.055	/	Pass
802.11ac		5270	1	41.211	/	Pass
(VHT40)	SISO	5310	1	41.031	/	Pass
(VIII40)	[5510	1	40.866	/	Pass
		5550	1	41.007	/	Pass
		5670	1	41.130	/	Pass
802.11ac		5210	1	81.539	/	Pass
(VHT80)	SISO	5290	1	81.681	1	Pass
(111100)	[5530	1	81.485		Pass

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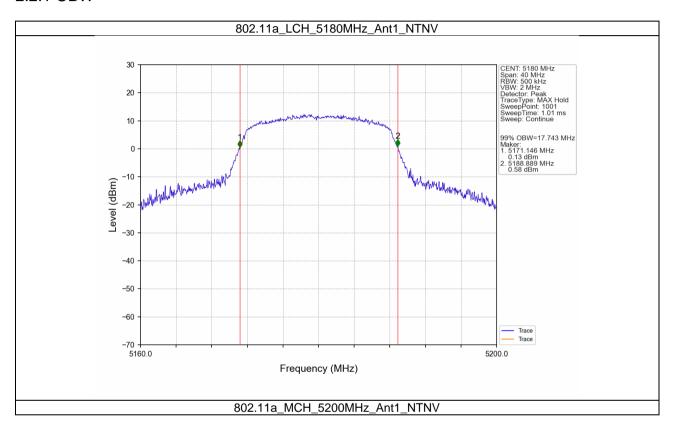
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2.2 Test Graph

2.2.1 OBW



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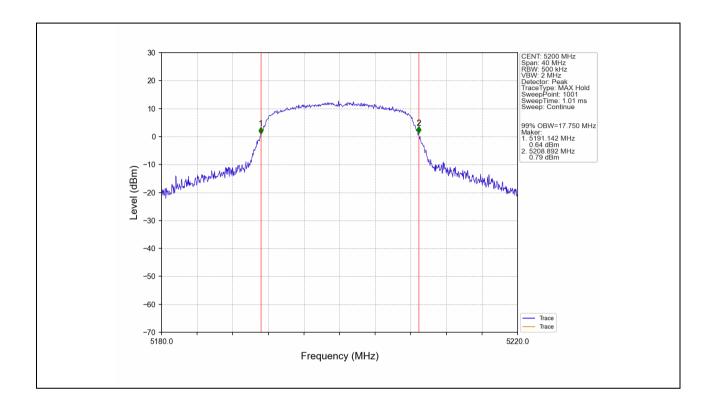
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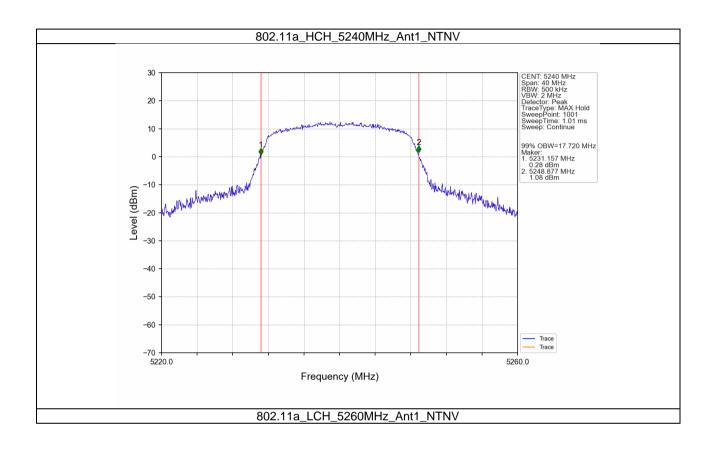
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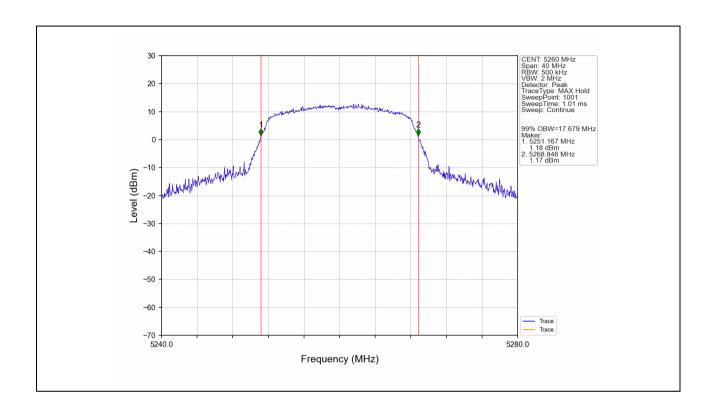
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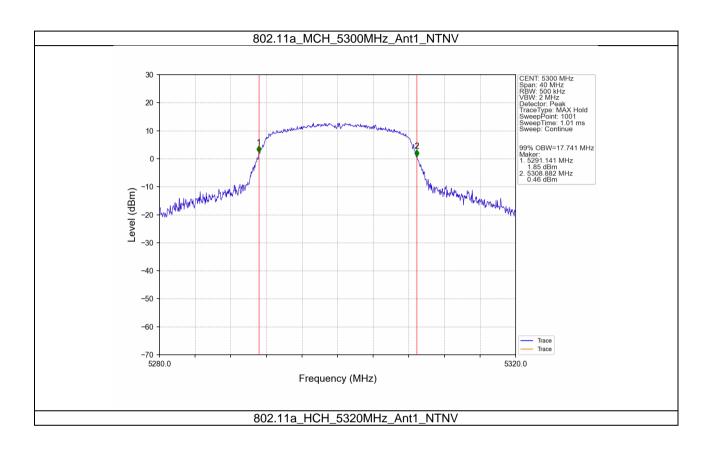
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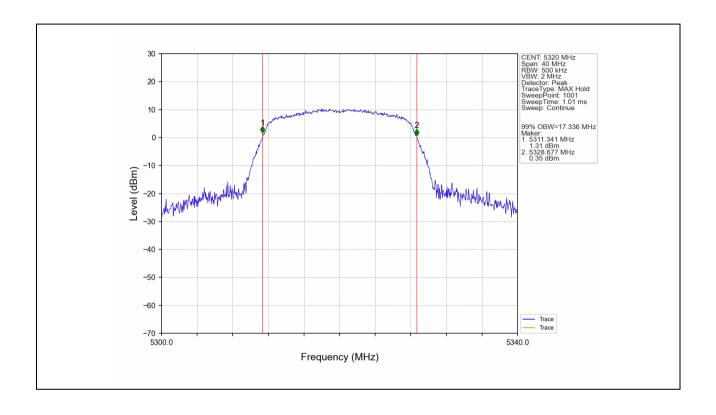
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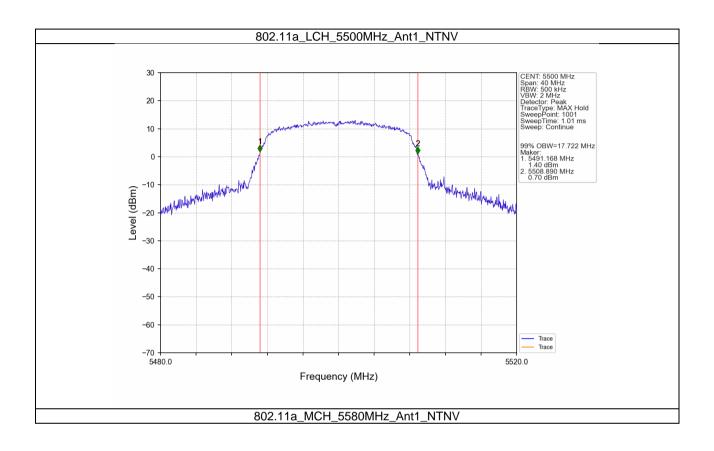
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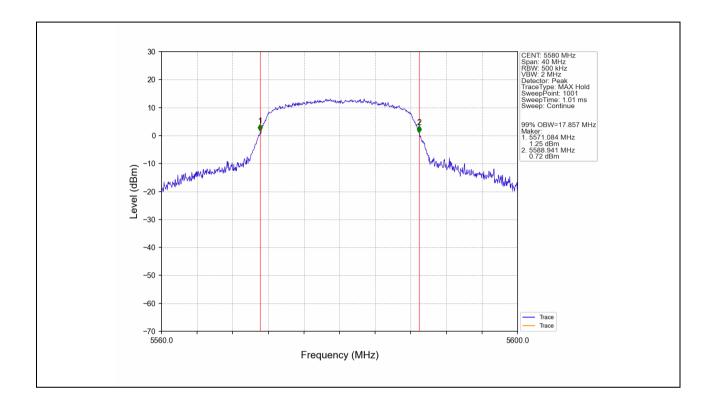
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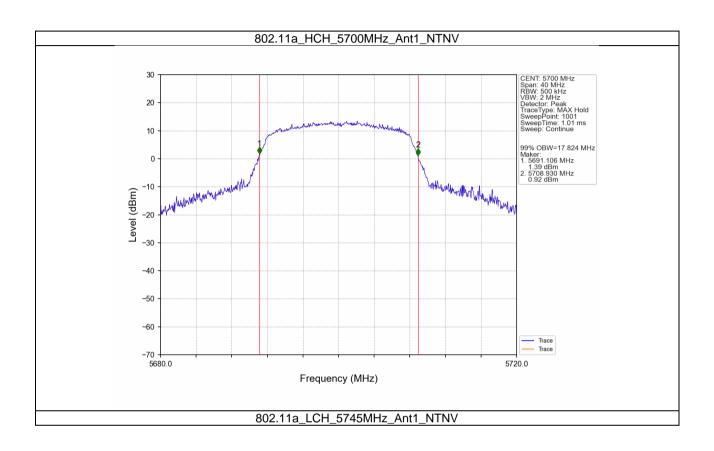
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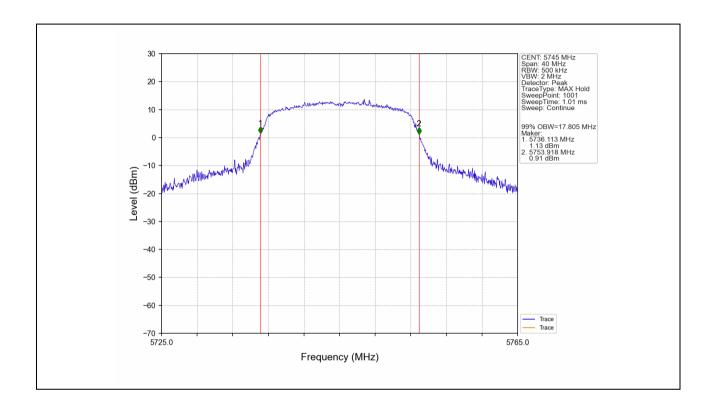
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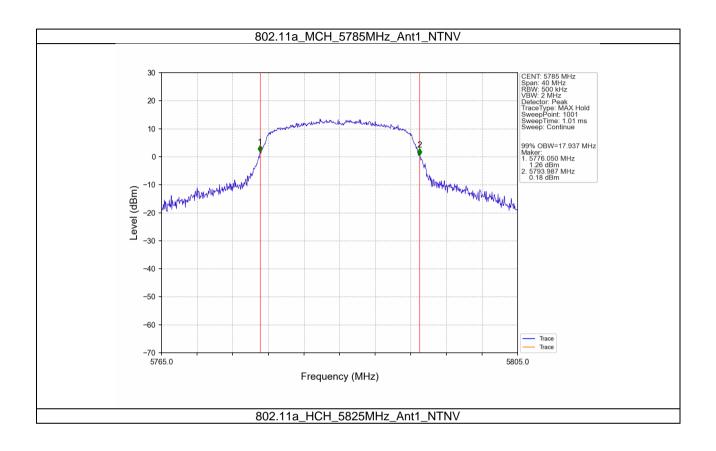
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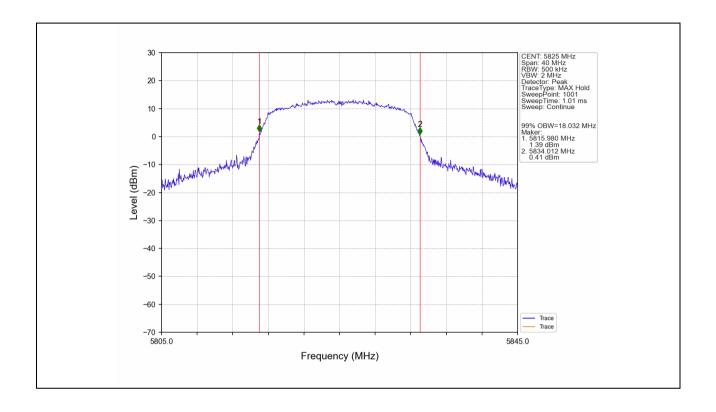
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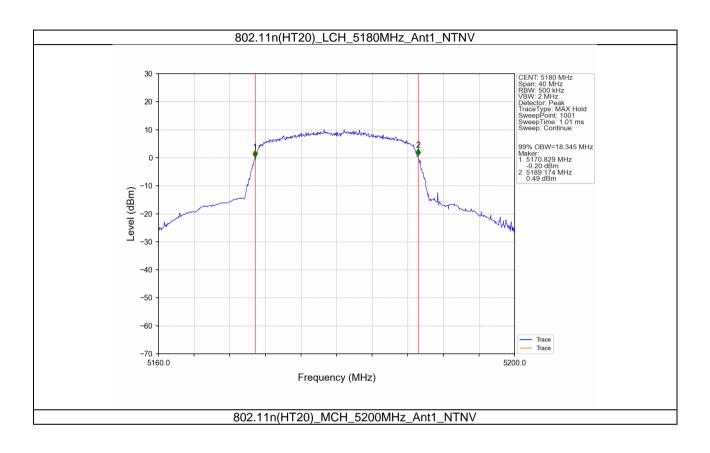
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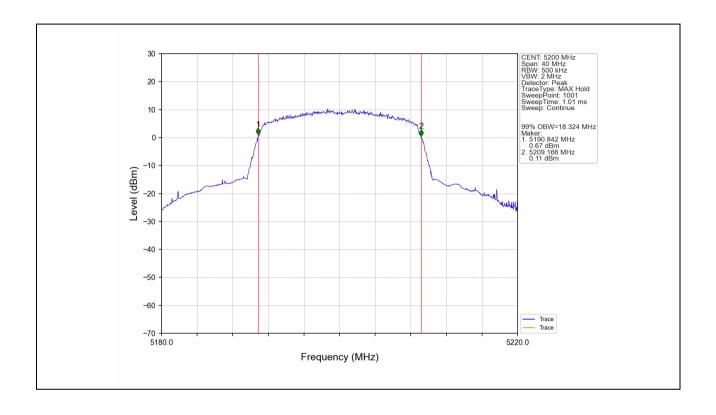
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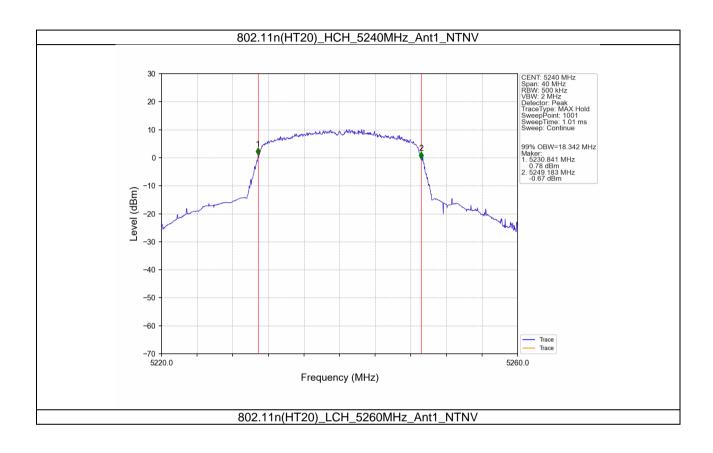
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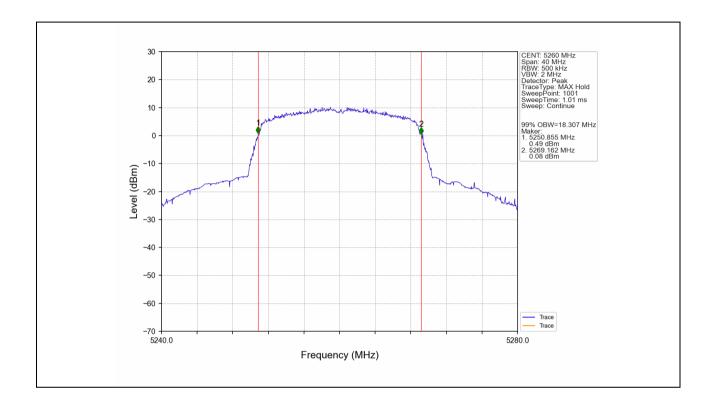
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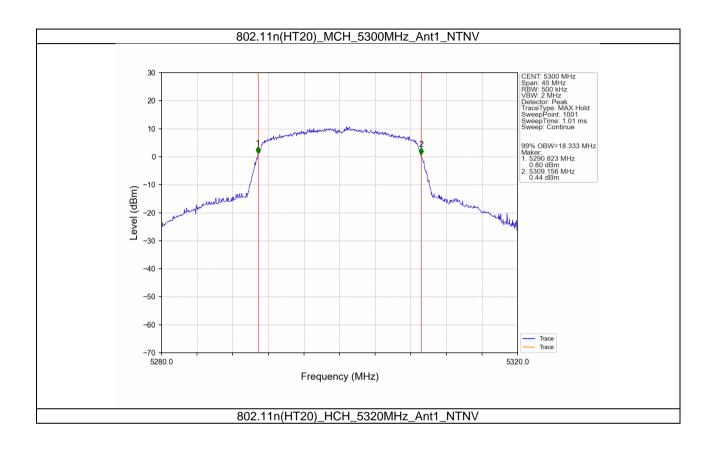
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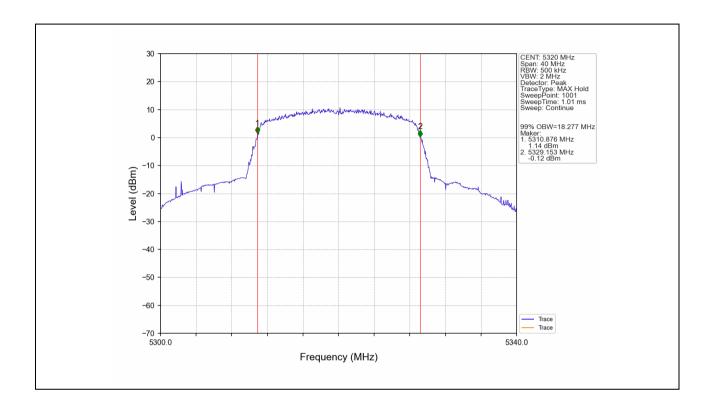
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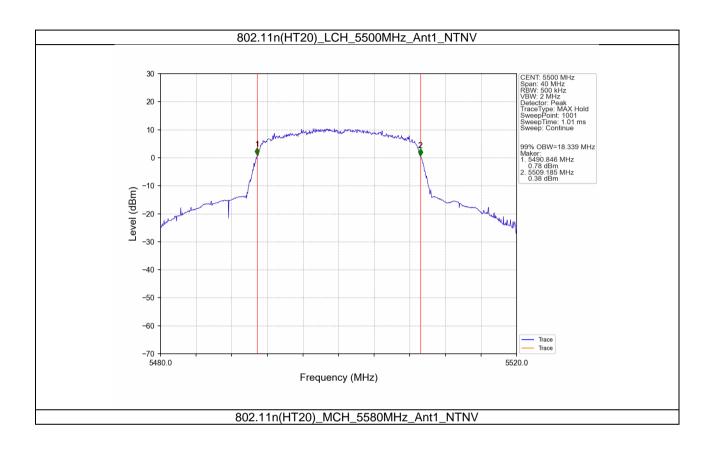
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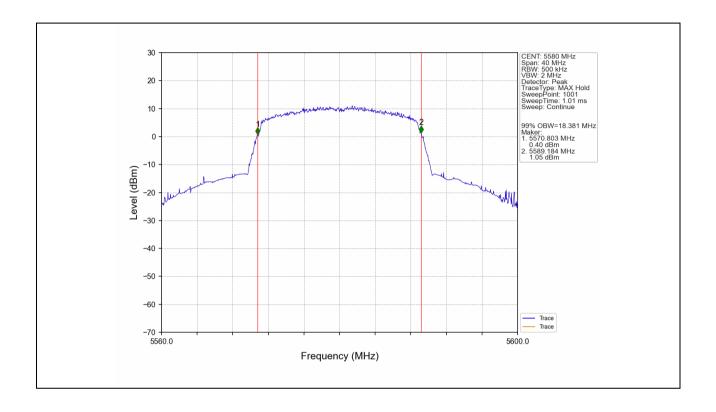
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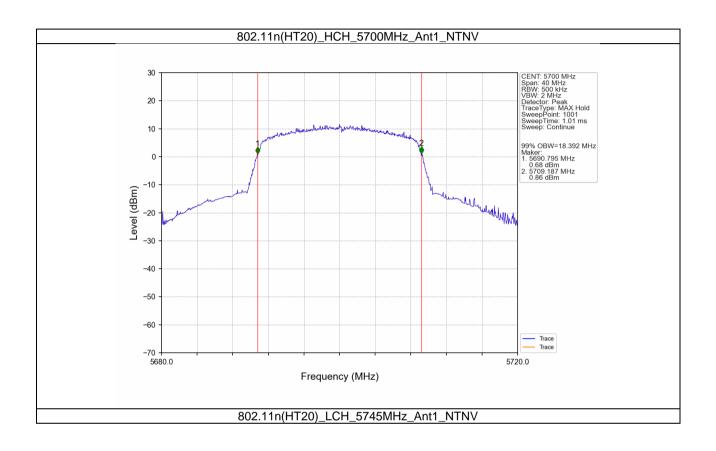
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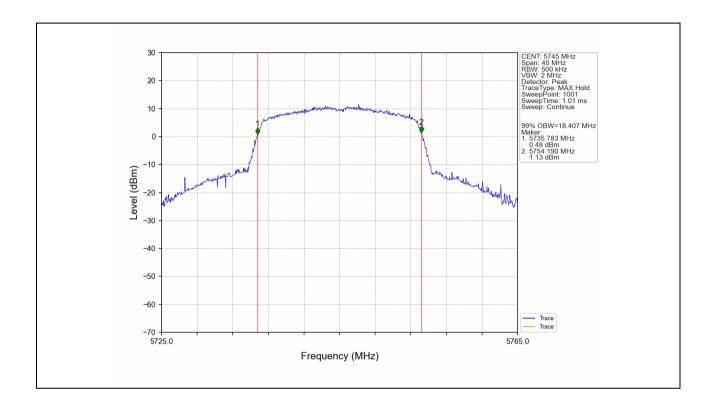
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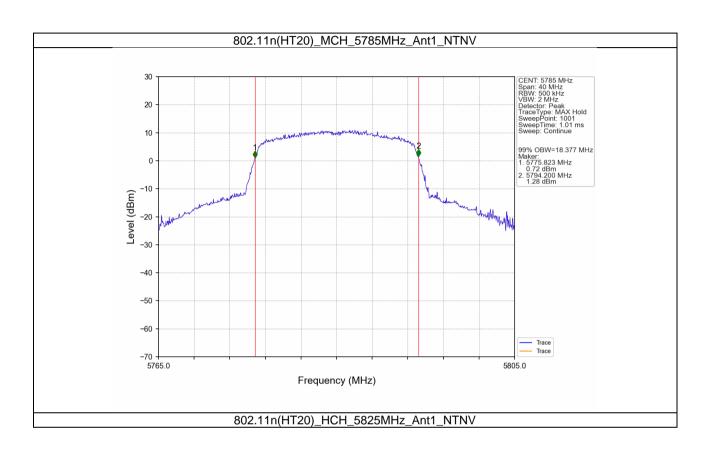
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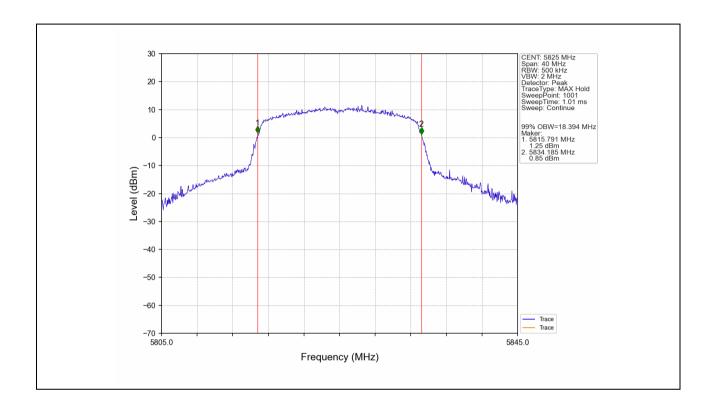
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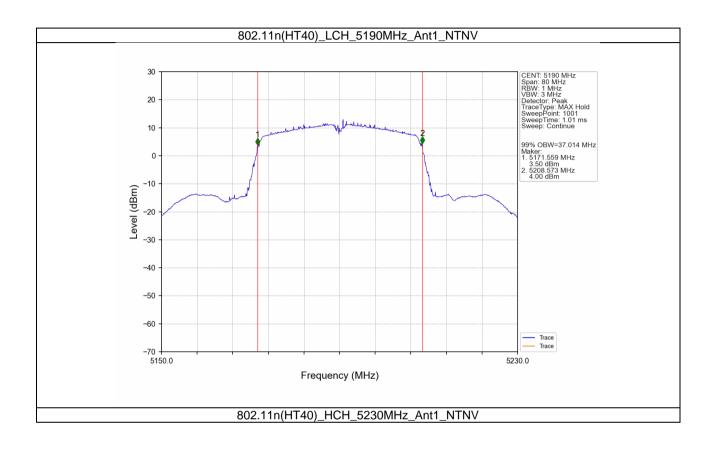
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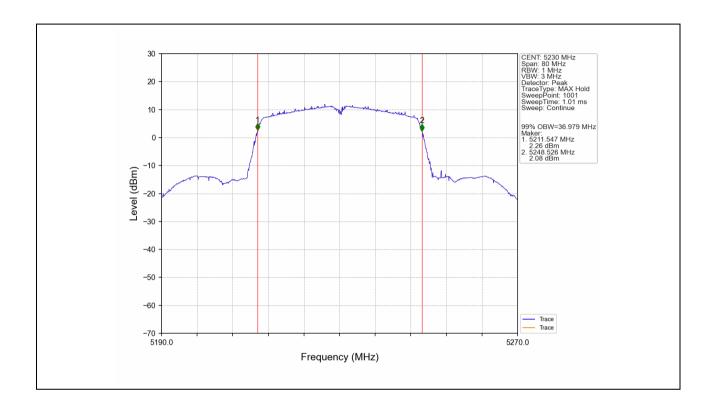
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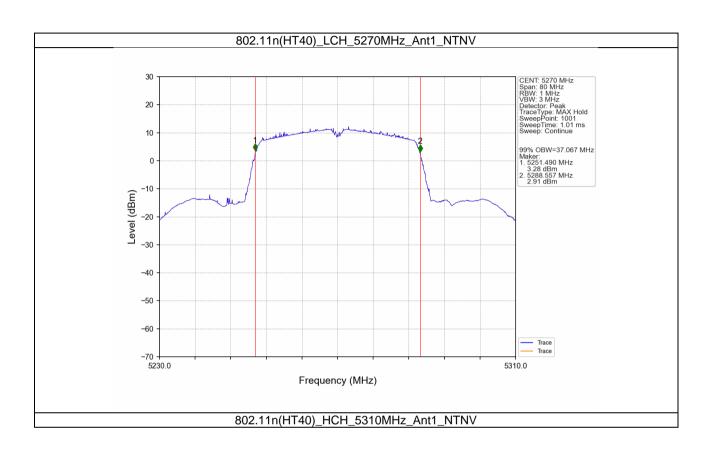
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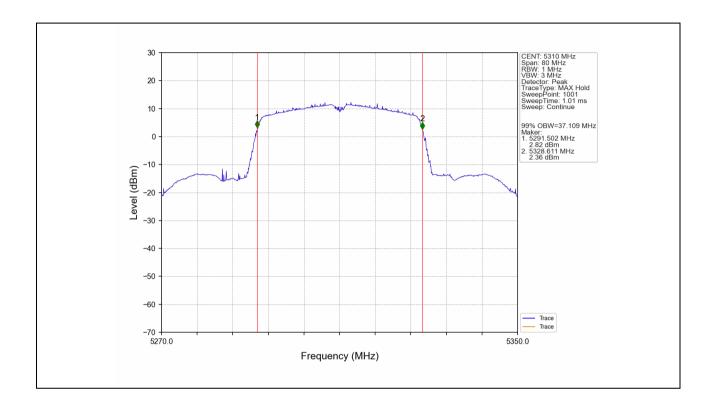
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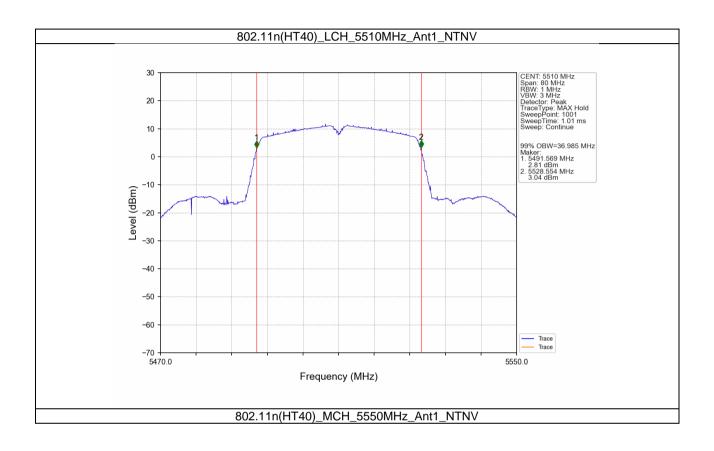
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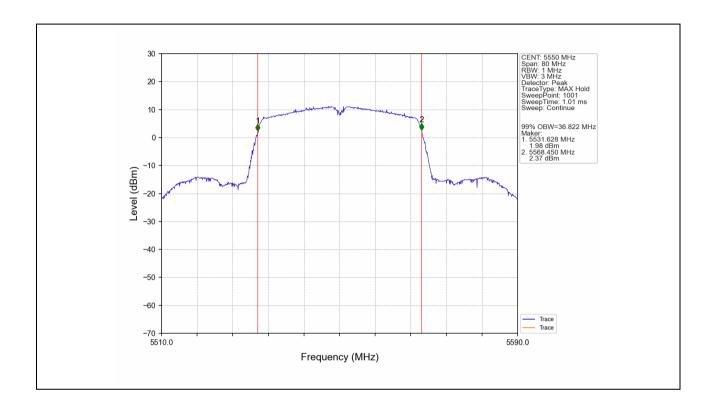
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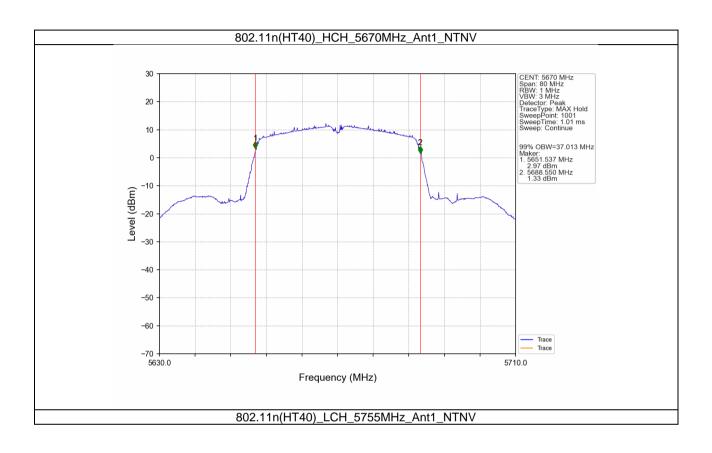
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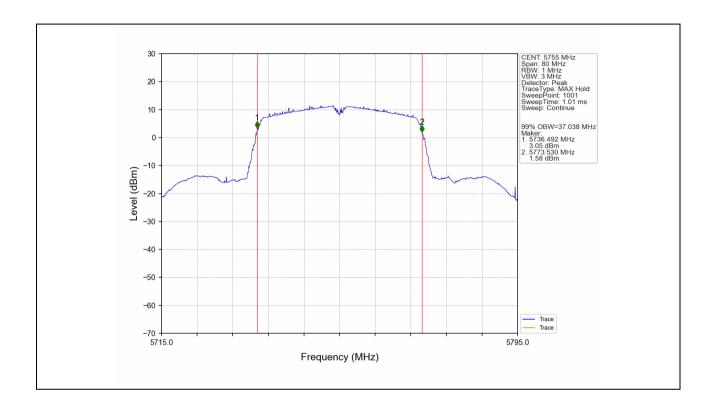
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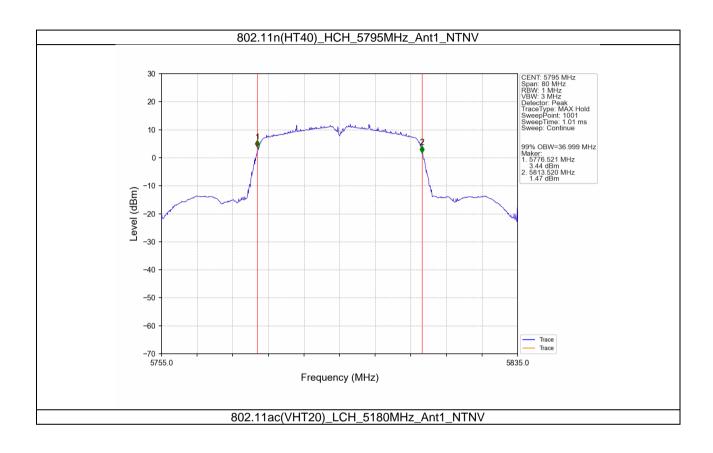
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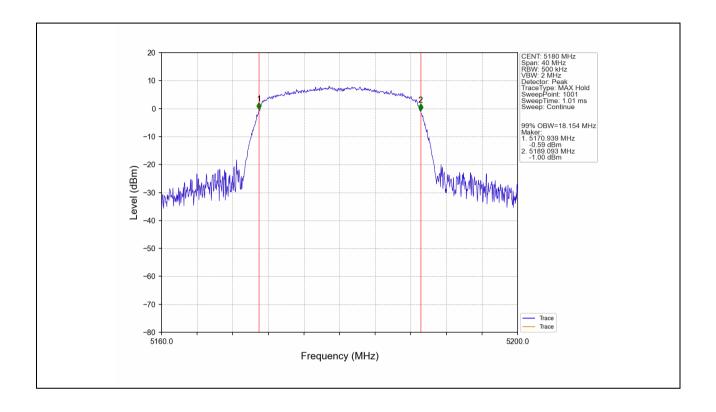
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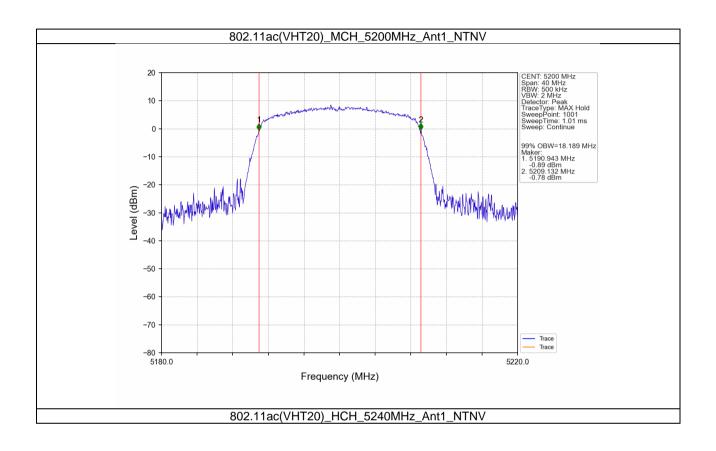
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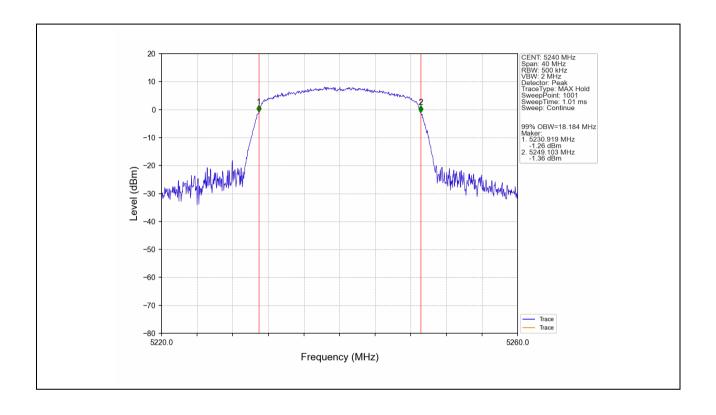
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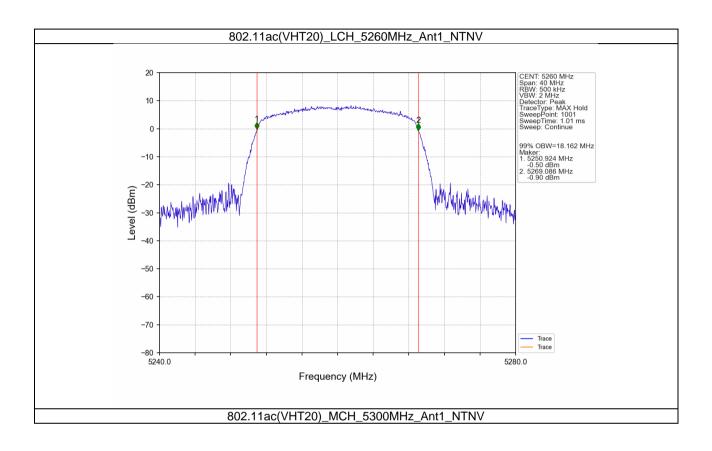
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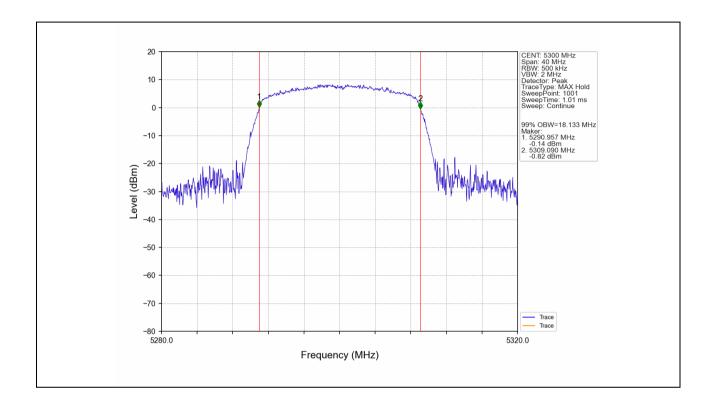
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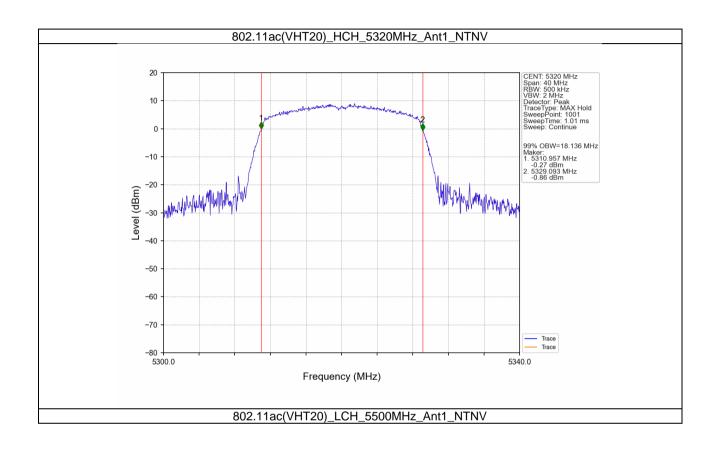
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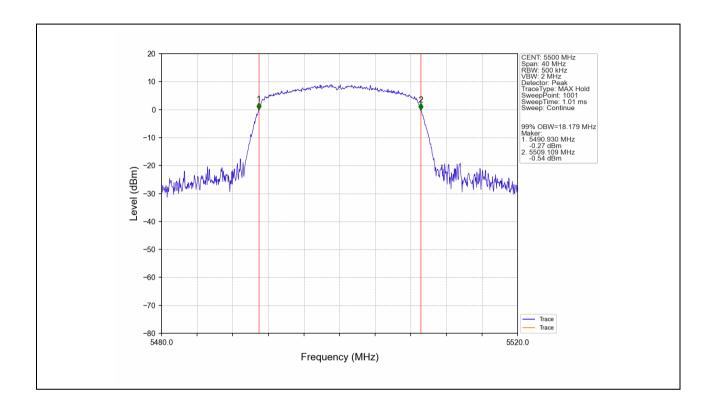
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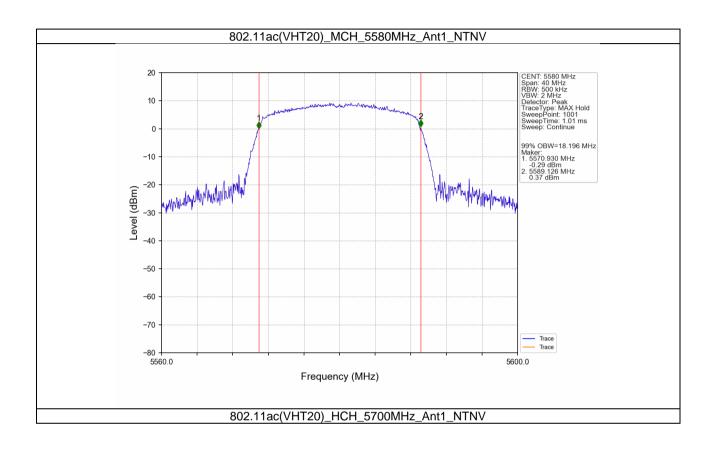
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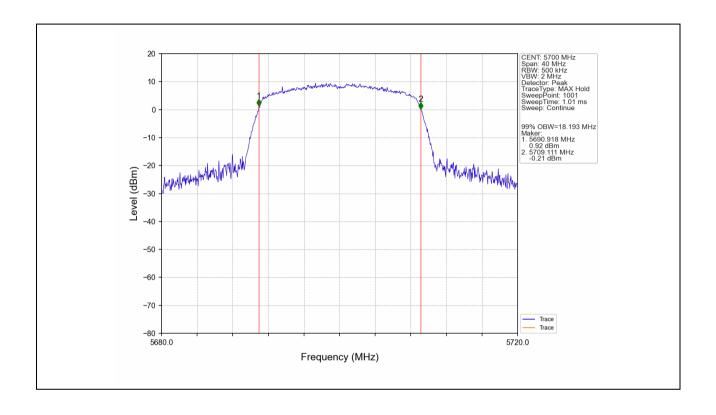
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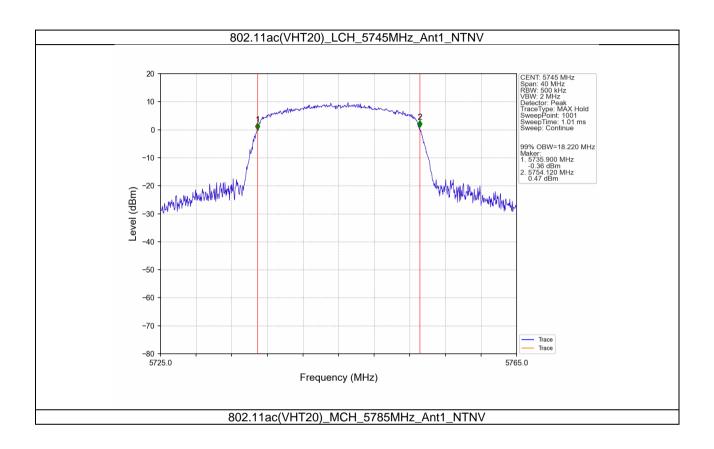
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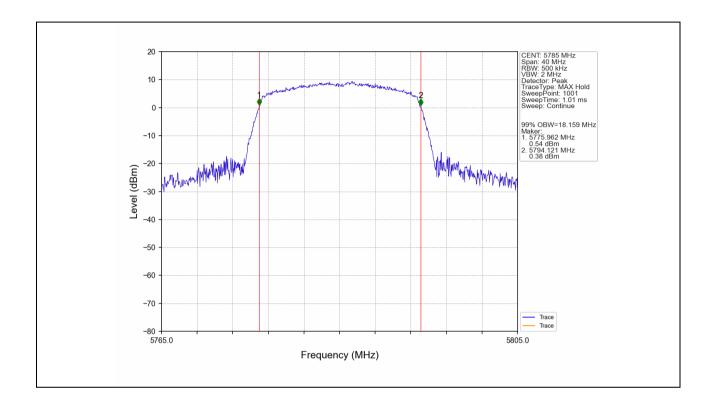
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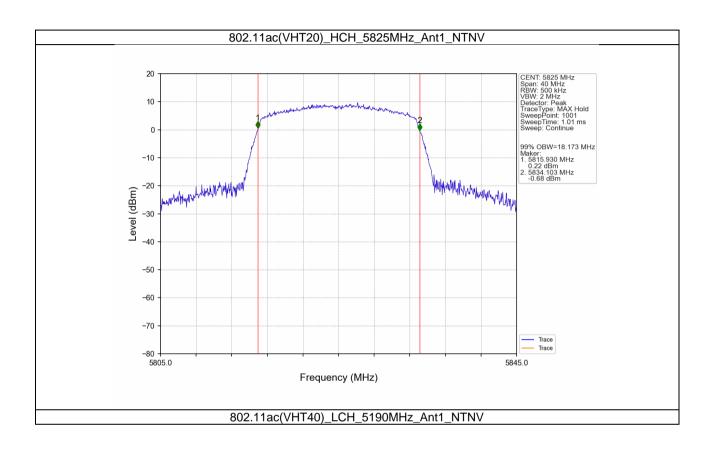
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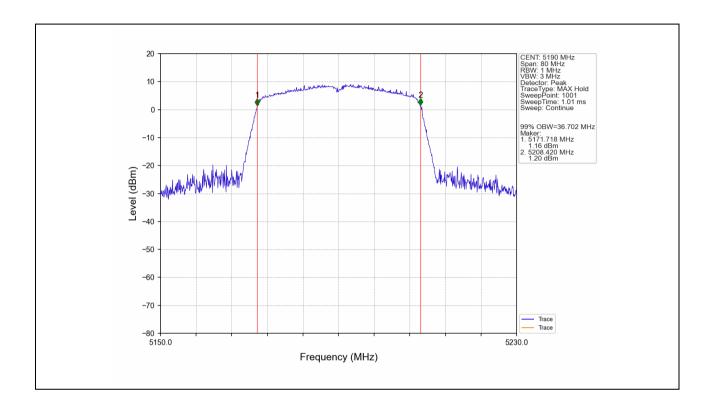
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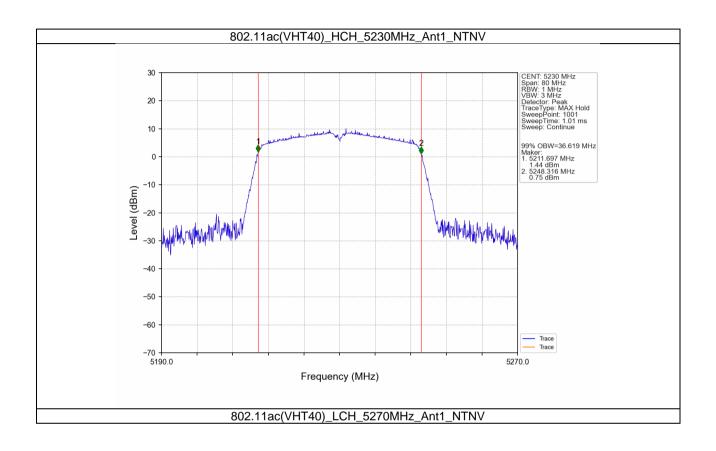
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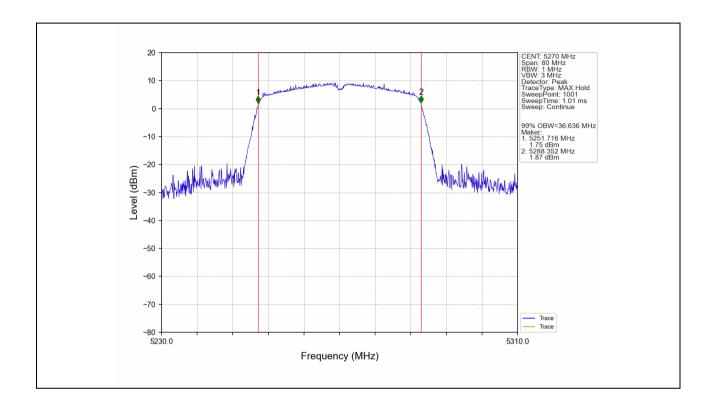
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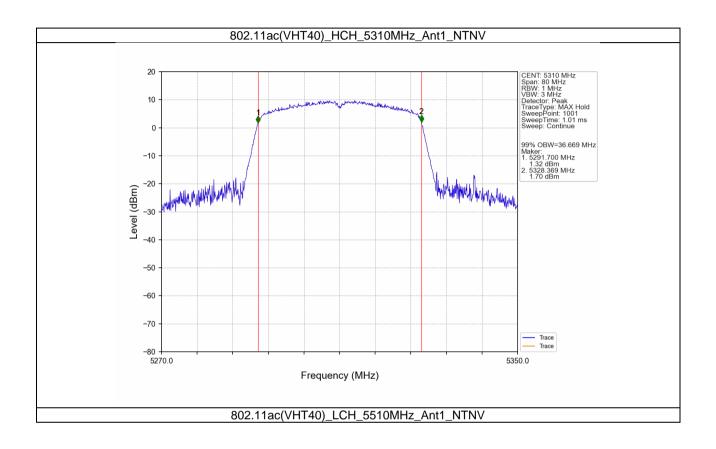
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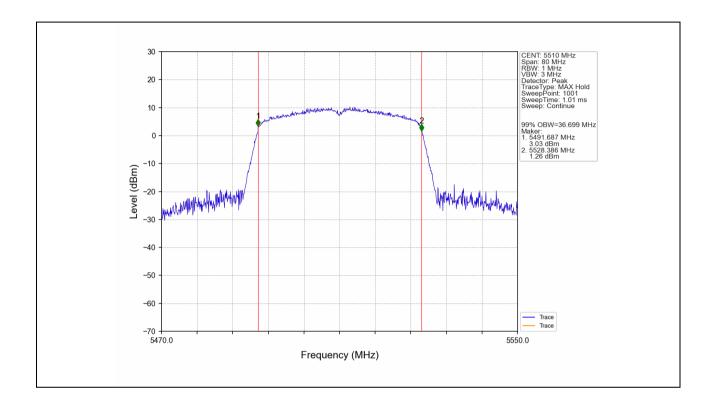
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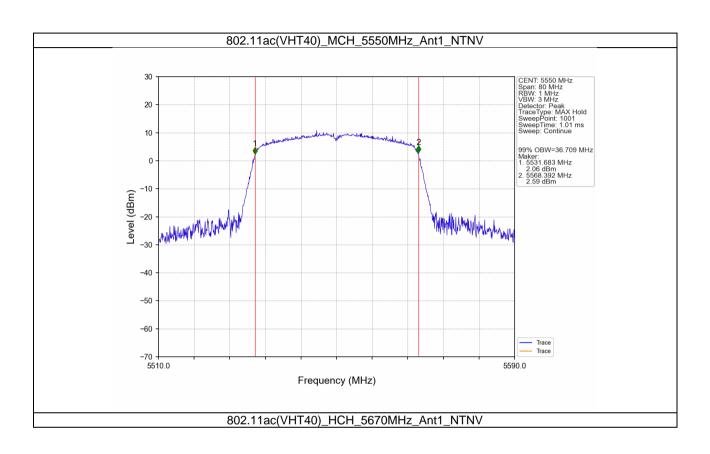
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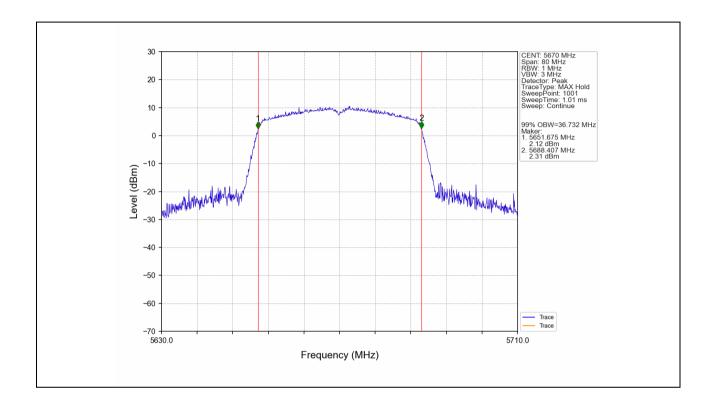
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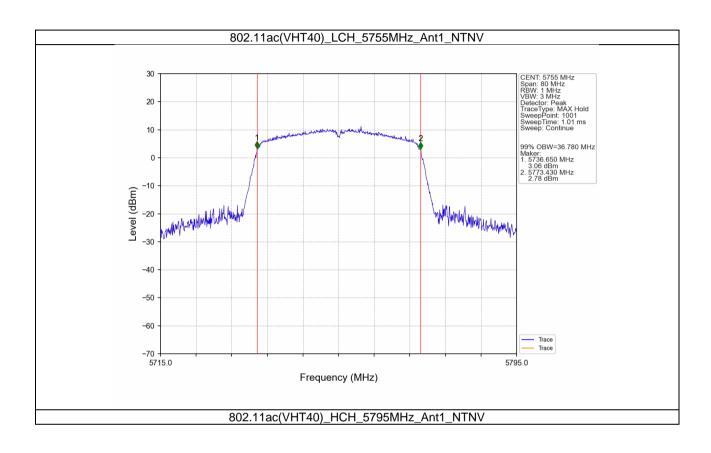
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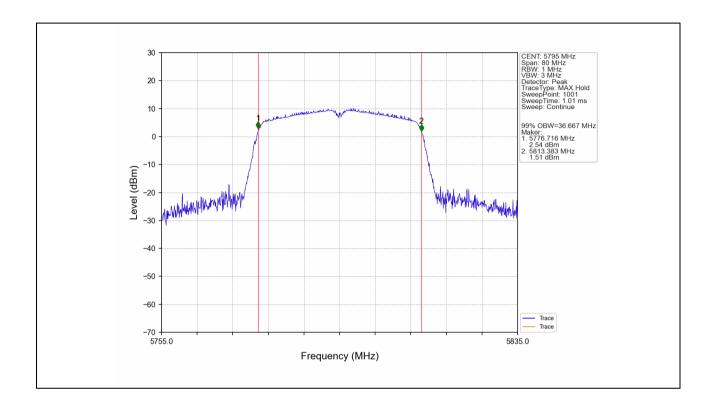
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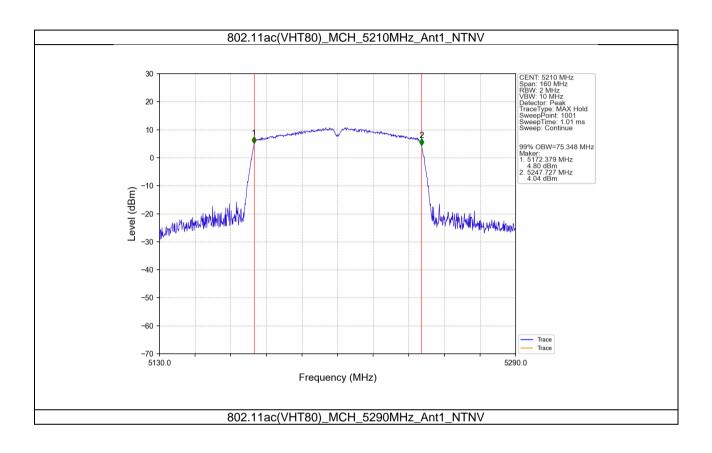
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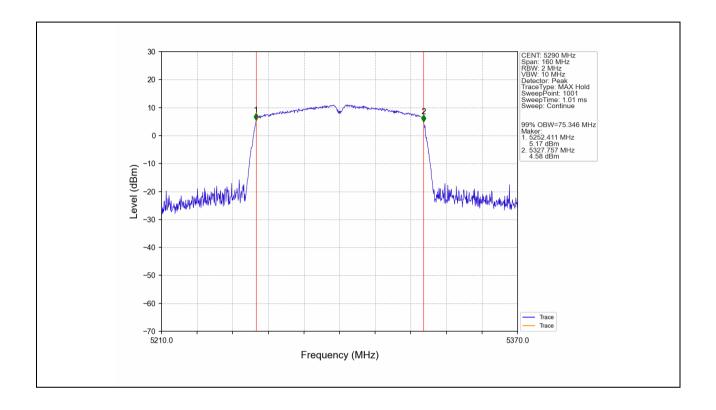
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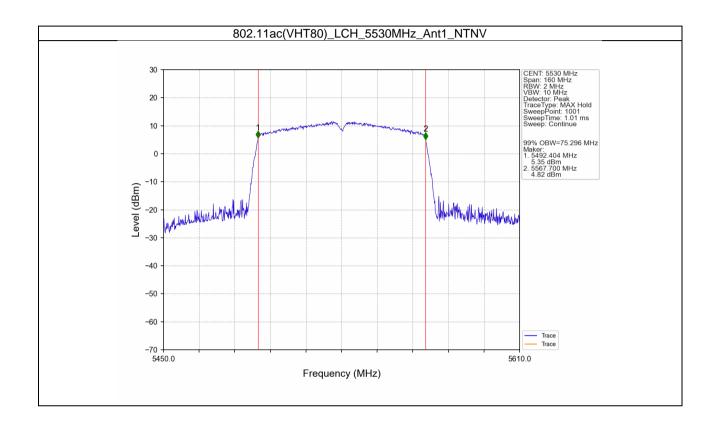
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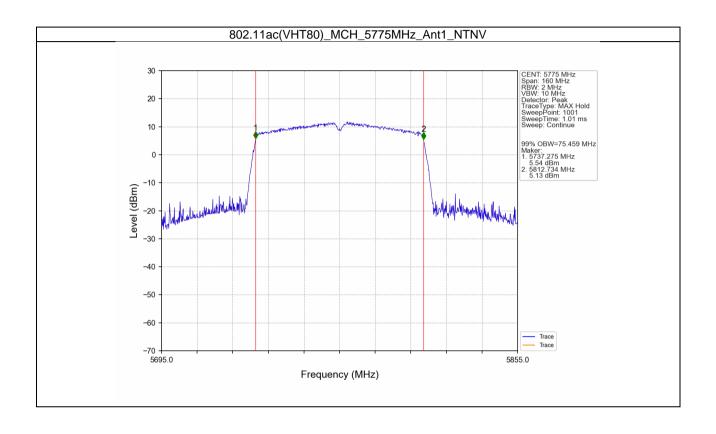
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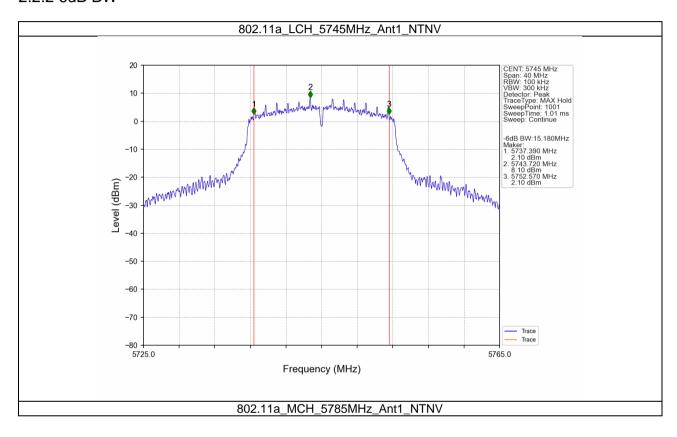


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2.2.2 6dB BW



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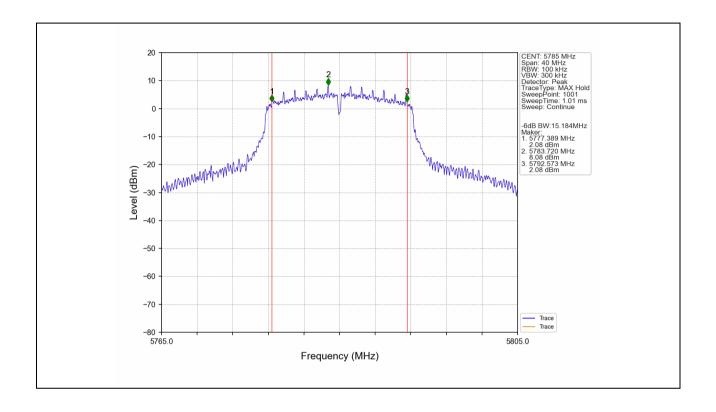
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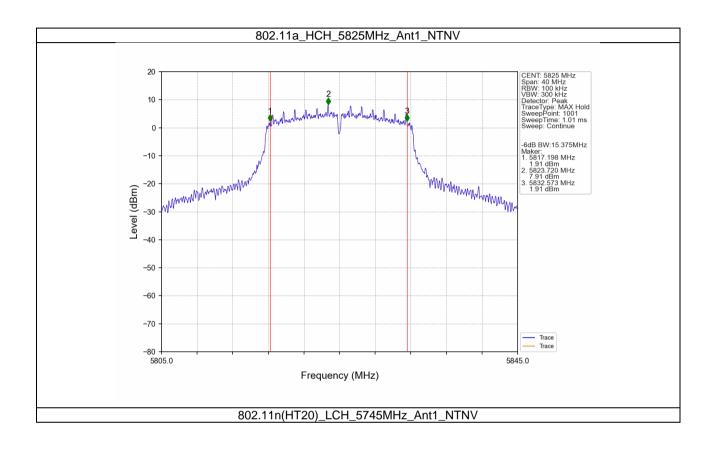
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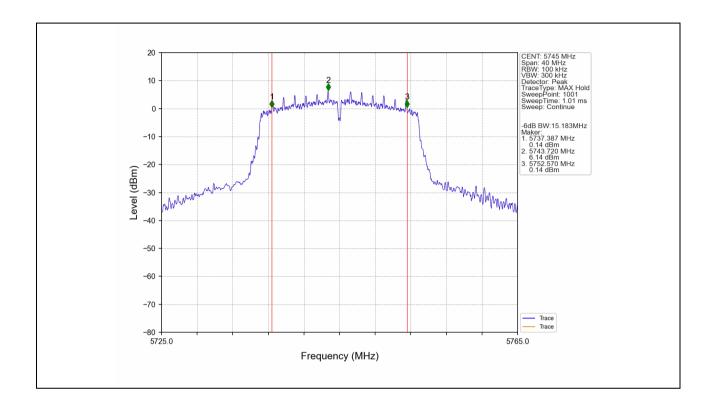
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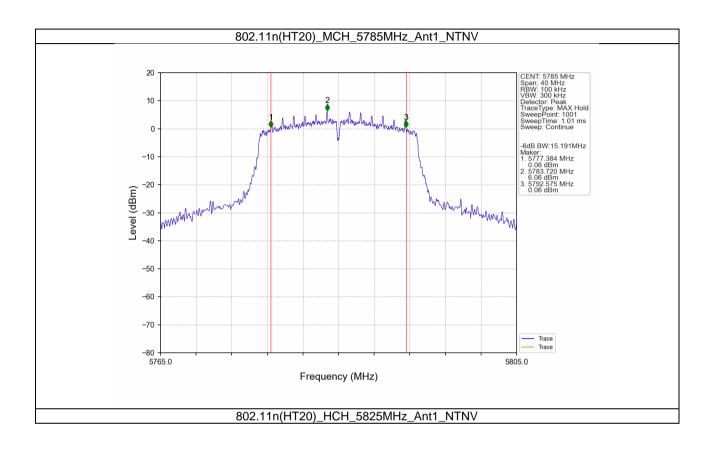
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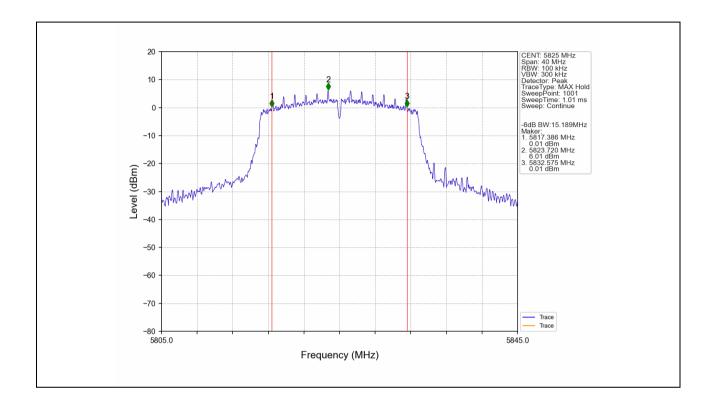
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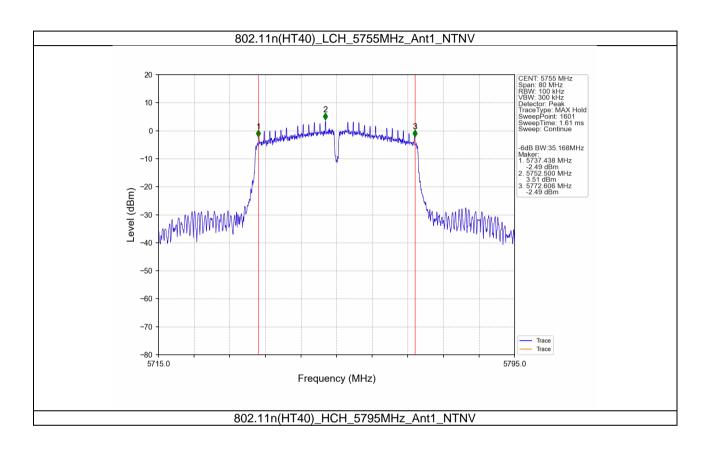
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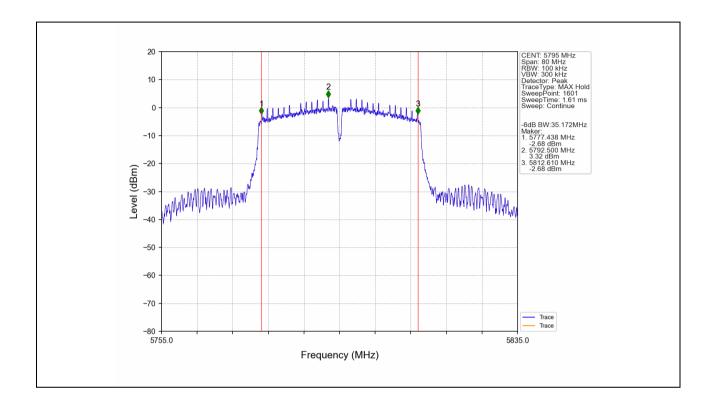
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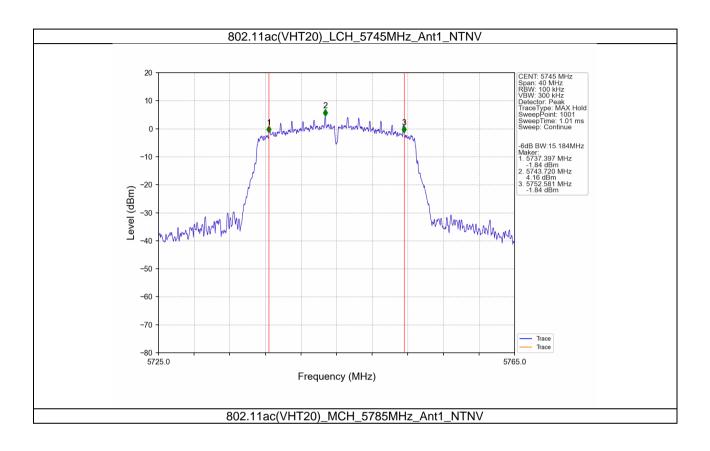
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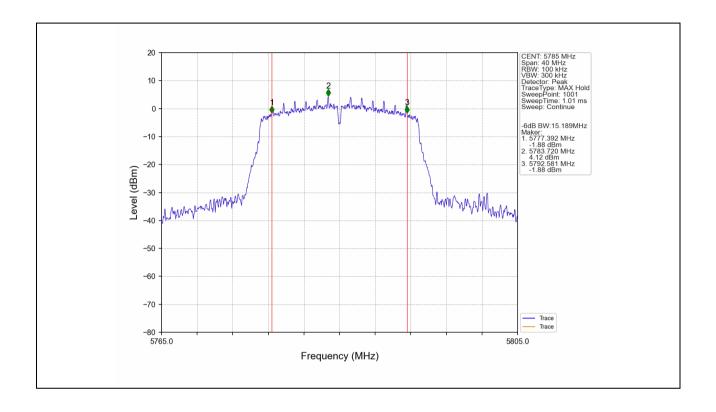
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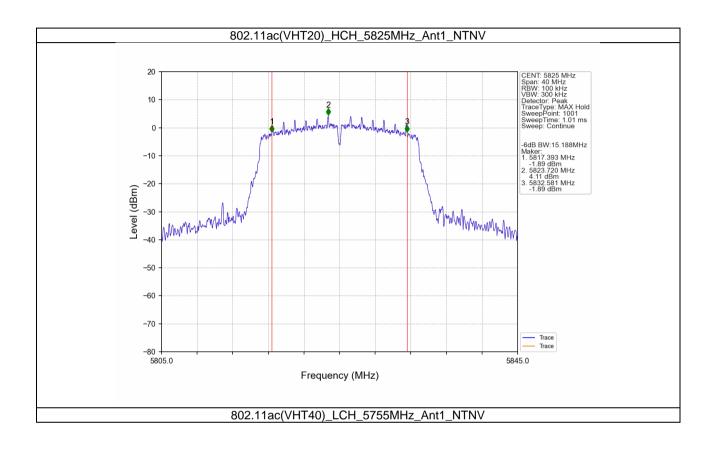
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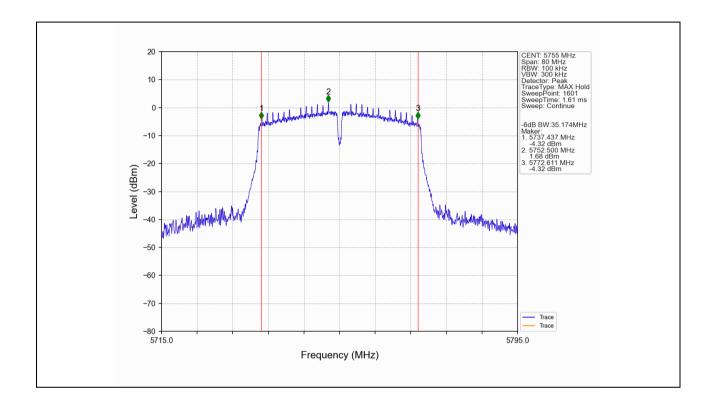
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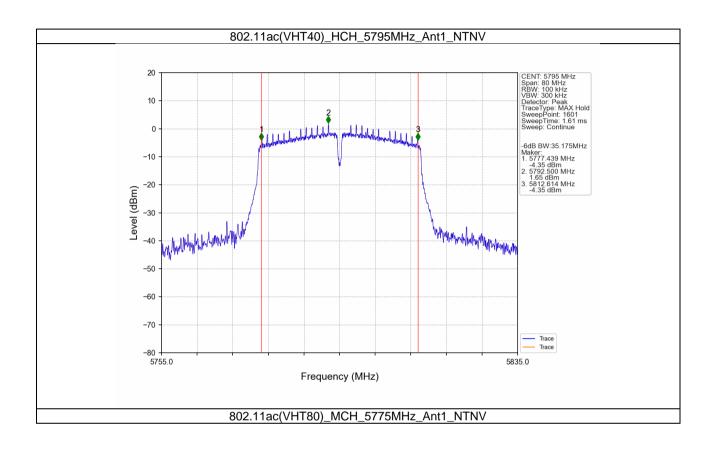
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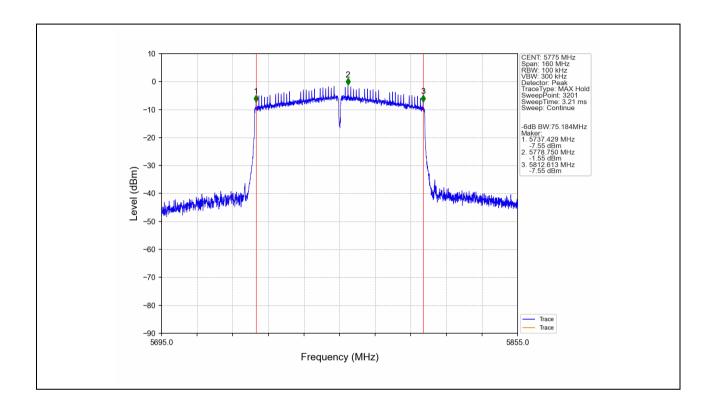
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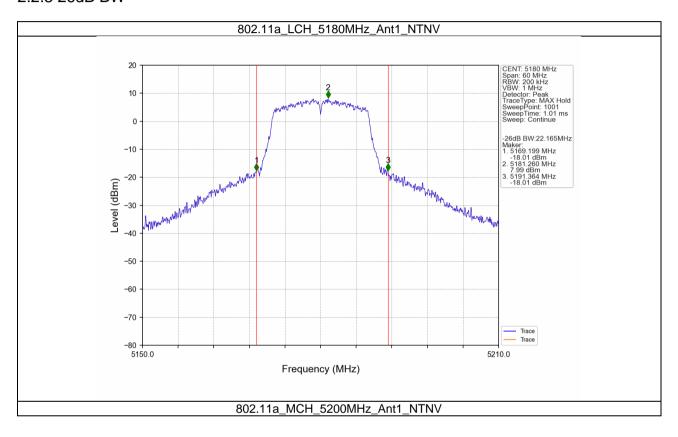


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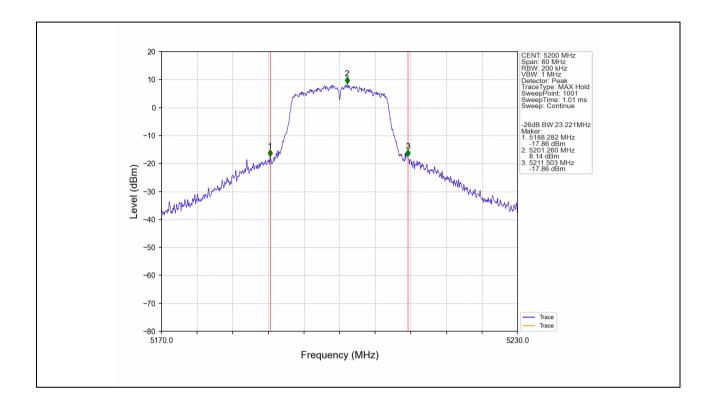
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