

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395907

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# TEST REPORT

Application No.: SZCR2410003959WM

**Applicant:** Guangdong OPPO Mobile Telecommunications Corp., Ltd. **Address of Applicant:** NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City,

Guangdong, China

**Manufacturer:** Guangdong OPPO Mobile Telecommunications Corp., Ltd. **Address of Manufacturer:** NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City,

Guangdong, China

**Equipment Under Test (EUT):** 

EUT Description: Mobile Phone Model No.: CPH2699
Trade Mark: OPPO

**FCC ID:** R9C-OP24263

Standard(s): 47 CFR Part 15, Subpart E 15.407

**Date of Receipt:** 2024-10-25

**Date of Test**: 2024-11-26 to 2024-12-10

**Date of Issue:** 2024-12-18

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2024-12-18		Original	

Authorized for issue by:		
	Sherlock Fans	
	Sherlock Fang/Project Engineer	
	Eric Fu	
	Eric Fu/Reviewer	



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#### 2 **Test Summary**

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15,	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matte	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time	47 CFR Part 15,	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle	Subpart E 15.407	KDB 789033 D02 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 D02 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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### **General Information**

#### 4.1 Details of E.U.T.

FUT Description	Malatic Di			
EUT Description:	Mobile Phone			
Model No.:	CPH2699			
Trade Mark:	OPPO			
Hardware Version:	11			
Software Version:	ColorOS 15	5.0		
Power Supply:	DC 3.92V for adapter	rom internal rechargeable battery which can be charged by AC/DC		
	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		
	5150MHz to	o 5250MHz		
O	5250MHz to	o 5350MHz		
Operation Frequency:	5470MHz to	5470MHz to 5725MHz		
	5725MHz to	o 5850MHz		
	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:	IFA Antenn	a		
	5150MHz to 5250MHz: 0.5dBi(Ant8);			
	5250MHz to 5350MHz: 0.5dBi(Ant8);			
	5470MHz to	o 5725MHz: 0.5dBi(Ant8);		
Antenna Gain:	5725MHz to 5850MHz: 0.5dBi(Ant8);			
	Note:			
	The antenna gain are derived from the gain information report provided by the manufacturer.			
	⊠ siso	802.11a/n/ac		
		CDD: 802.11a/n/ac: Tx & Rx		
Smart System:	☐ MIMO STBC: 802.11n/ac: Tx & Rx			
		TXBF: 802.11n/ac: Tx & Rx		
	☐ Diversity	y 802.11a: Tx & Rx		
TPC Function:	☐Support,	⊠Not Support		



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DFS Function:	□Master				
	☐Slave with radar detection ☐Slave without radar detection		ve without radar detection		
DE Oakla	4900MHz ~ 5250MHz(1.6dB)		5250MHz ~ 5350MHz(1.7dB)		
RF Cable:	5470MHz ~ 5725MHz(1.8dB)		5725MHz ~ 5850MHz (2dB)		
Remark:					
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy,					
suitability, reliability or/and integrity of the information.					

#### 4.2 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests			
Relative Humidity	33.7-50.8 % RH Ambient			
Value	Temperature(°C)	Voltage(V)		
NTNV	20.2~24.8	3.92		
Note:				
NV:Normal Voltage				
NT:Normal Temperature				



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### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R7800	SZ-WRG-A-072

### 4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	± 3%
Peak Power spectrum density	± 2.84dB
Frequency Stability	± 7.25 x 10-8

#### Remark:

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

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- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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#### 4.5 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

#### 4.6 Test Facility

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

#### A2LA (Certificate No. 3816.01)

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

#### VCCI (Member No. 1937)

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

#### • FCC -Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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#### **Equipment List** 5

Conducted Emissions at AC Power Line (150kHz-30MHz)								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13			
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29			
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19			
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19			
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05			
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14			
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13			

Maximum Conducted output power								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26			
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13			
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26			
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18			

Radiated Emissions (Below 1GHz)								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19			
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18			
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13			
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15			
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05			



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Radiated Emissions (Above 1GHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29		
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP0101805 0	SZ-WRG-M-051	2024-01-30	2025-01-29		
Low Noise Amplifier 18G-40GHz	Tonscend	TAP1804004 8	SZ-WRG-M-052	2024-01-30	2025-01-29		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20		
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24		
RSE Test Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A		
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04		
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23		

Radiated Emissions which fall in the restricted bands								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2024-01-30	2025-01-29			
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2024-01-30	2025-01-29			
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20			
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24			
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2022-01-05	2025-01-04			
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23			



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Channel Move Time								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26			
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26			
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A			
Measurement Software	Agilent	ISMonitor10	N/A	N/A	N/A			
MXG Vector Signal Generator	9 1 400400 1 19516.		SEM006-21	2024-03-27	2025-03-26			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13			

RF Conducted Test								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05			
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26			
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18			
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26			
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26			
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2024-03-27	2025-03-26			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13			

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23		
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17		



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## Radio Spectrum Technical Requirement

#### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

#### 15.203 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **EUT Antenna:**

The antenna is a IFA Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

5150MHz to 5250MHz: 0.5dBi(Ant8); \* 5250MHz to 5350MHz: 0.5dBi(Ant8); \* 5470MHz to 5725MHz: 0.5dBi(Ant8); \* 5725MHz to 5850MHz: 0.5dBi(Ant8); \*

#### \*Note:

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

#### Remark:

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#### 6.2 Transmission in the Absence of Data

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

#### 6.2.2 Conclusion

#### Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

#### **EUT Details:**

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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#### **Radio Spectrum Matter Test Results** 7

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9) Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.2

#### Limit:

Everyone of emission (MH=)	Conducted limit(dB μ V)					
Frequency of emission(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 logarithm of the frequency.						

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

	1112 Test mode besorption					
Pre-scan / Final test	Mode Code	Description				
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				



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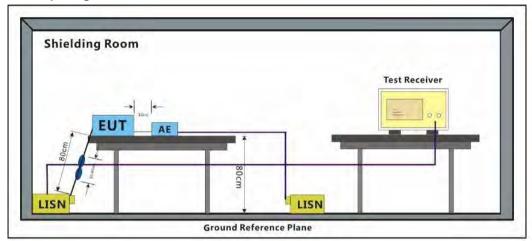
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#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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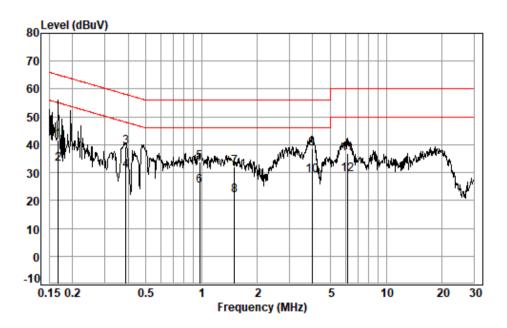


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Test Mode: 14: Line: Live line



: Shielding Room

Condition: Line Job No. : 03959WM

Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.06	10.17	31.51	41.74	65.08	-23.34	QP
2	0.1677	0.06	10.17	22.99	33.22	55.08	-21.86	Average
3	0.3893	0.07	9.69	29.49	39.25	58.08	-18.83	QP
4	0.3893	0.07	9.69	20.93	30.69	48.08	-17.39	Average
5	0.9787	0.09	9.58	23.99	33.66	56.00	-22.34	QP
6	0.9787	0.09	9.58	15.55	25.22	46.00	-20.78	Average
7	1.5113	0.10	9.58	22.58	32.26	56.00	-23.74	QP
8	1.5113	0.10	9.58	12.06	21.74	46.00	-24.26	Average
9 *	3.9639	0.12	9.66	28.70	38.48	56.00	-17.52	QP
10 *	3.9639	0.12	9.66	19.08	28.86	46.00	-17.14	Average
11	6.1534	0.14	9.67	27.15	36.96	60.00	-23.04	QP
12	6.1534	0.14	9.67	19.58	29.39	50.00	-20.61	Average



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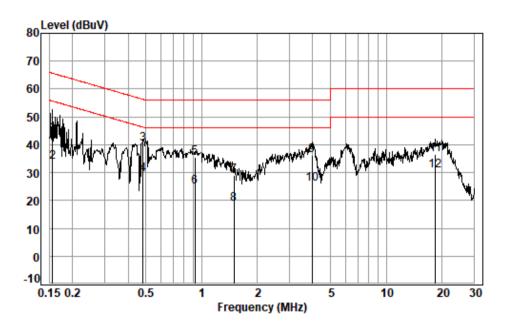


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Test Mode: 14: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03959WM

Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.06	10.14	34.03	44.23	65.69	-21.46	QP
2	0.1557	0.06	10.14	23.56	33.76	55.69	-21.93	Average
3 *	0.4812	0.08	9.71	30.68	40.47	56.32	-15.85	QP
4 *	0.4812	0.08	9.71	19.70	29.49	46.32	-16.83	Average
5	0.9184	0.09	9.57	25.96	35.62	56.00	-20.38	QP
6	0.9184	0.09	9.57	15.12	24.78	46.00	-21.22	Average
7	1.5033	0.10	9.55	19.28	28.93	56.00	-27.07	QP
8	1.5033	0.10	9.55	9.07	18.72	46.00	-27.28	Average
9	3.9639	0.12	9.55	26.56	36.23	56.00	-19.77	QP
10	3.9639	0.12	9.55	16.30	25.97	46.00	-20.03	Average
11	18.4258	0.29	10.06	26.30	36.65	60.00	-23.35	QP
12	18.4258	0.29	10.06	20.21	30.56	50.00	-19.44	Average



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### 7.2 Maximum Conducted output power

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement

Test Method: KDB 789033 D02 II E

#### Limit:

Frequen	cy band(MHz)	Limit					
E1E0	E2E0	≤1W(30dBm) for master device					
5150-	5250	≤250mW(24dBm) for client device					
5250-	5350	≤250mW(24dBm) or 11dBm+10logB*					
5470-	5725	≤250mW(24dBm) or 11dBm+10logB*					
5725-	5850	≤1W(30dBm)					
Remark:	* Where B is the	e 26dB emission bandwidth in MHz.					
		conducted output power must be measured over any interval ransmission using instrumentation calibrated in terms of an voltage.					

#### 7.2.1 E.U.T. Operation

Operating Environment:

24.4 °C Temperature: Humidity: 34.2 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

1.2.2 163LW	ioue De	scription
Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test 11		TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.



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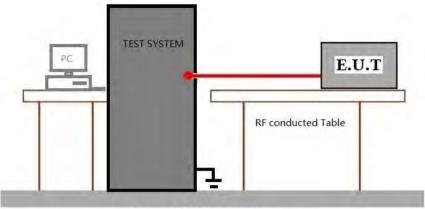
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#### 7.2.3 Test Setup Diagram



Ground Reference Plane

#### 7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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### 7.3 Radiated Emissions (Below 1GHz)

47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) **Test Requirement** 

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.



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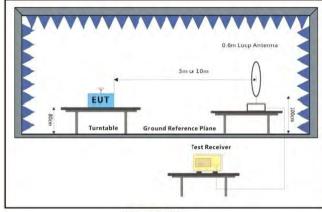


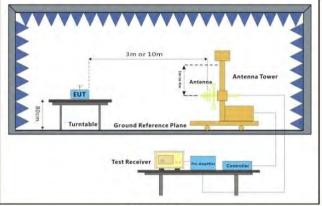
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#### 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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#### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- 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 quasi-peak 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. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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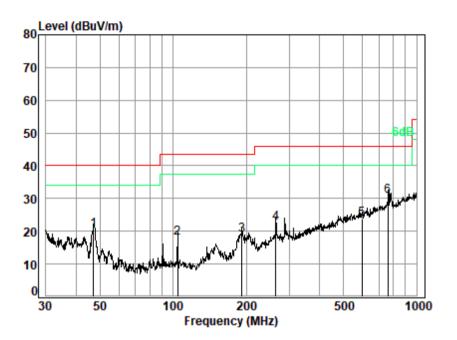


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Test Mode: 14; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 14

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.160	13.59	0.84	27.74	33.60	20.29	40.00	-19.71	QP
2	104.170	12.22	1.25	27.57	32.00	17.90	43.50	-25.60	QP
3	191.745	14.26	1.73	27.20	30.07	18.86	43.50	-24.64	QP
4	263.819	17.11	2.06	26.90	30.11	22.38	46.00	-23.62	QP
5	597.223	24.44	3.23	27.96	24.07	23.78	46.00	-22.22	QP
6 a	763.376	26.52	3.75	27.57	27.96	30.66	46.00	-15.34	OP



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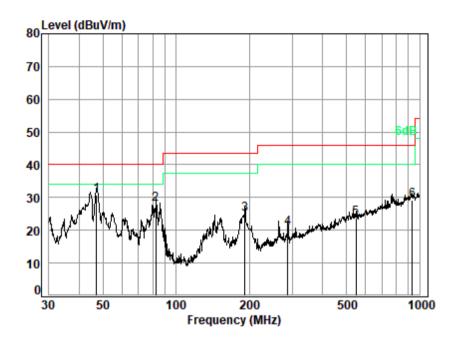


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Test Mode: 14; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03959WM Test Mode: 14

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	47.160	13.59	0.84	27.74	44.01	30.70	40.00	-9.30	QP
2	82.648	10.69	1.11	27.64	43.77	27.93	40.00	-12.07	QP
3	191.745	14.26	1.73	27.20	36.26	25.05	43.50	-18.45	QP
4	287.990	16.98	2.16	26.80	28.49	20.83	46.00	-25.17	QP
5	549.020	23.81	3.08	27.76	24.67	23.80	46.00	-22.20	QP
6	935.546	28.18	4.22	26.51	23.44	29.33	46.00	-16.67	QP



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#### 7.4 Radiated Emissions (Above 1GHz)

47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) Test Requirement

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

#### 7.4.1 E.U.T. Operation

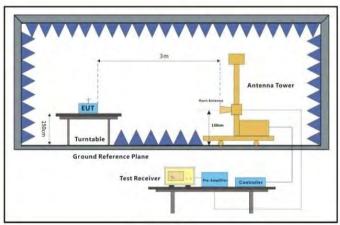
Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

7.4.2 TEST IV	7.4.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description							
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							

#### 7.4.3 Test Setup Diagram



Above 1GHz



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#### 7.4.4 Measurement Procedure and Data

- 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.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
- 6.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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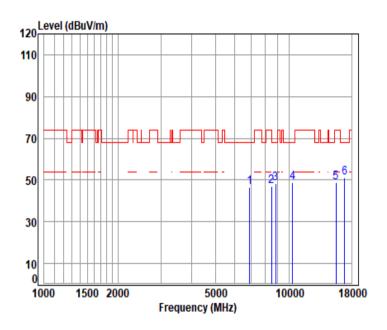


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11a TX CH 36 Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5180 TX RSE

· 5G WTFT 11Δ

	. 50	MTLT	IIA						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6909.632	11.37	36.18	56.72	55.77	46.60	68.20	-21.60	peak
2	8488.119	12.23	38.32	55.46	52.11	47.20	74.00	-26.80	peak
3	8814.115	12.25	38.50	55.17	52.81	48.39	68.20	-19.81	peak
4	10360.000	13.60	39.00	53.88	50.23	48.95	68.20	-19.25	peak
5									•
6	pp16864.040	17.92	39.60	54.26	47.94	51.20	68.20	-17.00	neak



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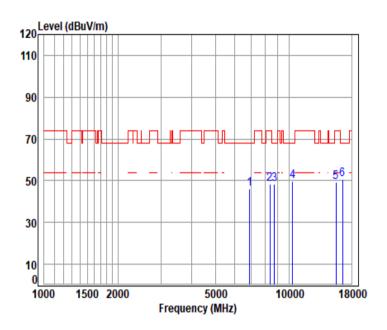


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11a\_TX\_CH\_36\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5180 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6909.632	11.37	36.18	56.72	55.10	45.93	68.20	-22.27	peak
2									
3									
4	10360.000	13.60	39.00	53.88	50.83	49.55	68.20	-18.65	peak
5	15540.000	17.00	38.56	54.14	47.67	49.09	74.00	-24.91	peak
6	pp16523.970	17.72	38.97	54.16	48.08	50.61	68.20	-17.59	peak



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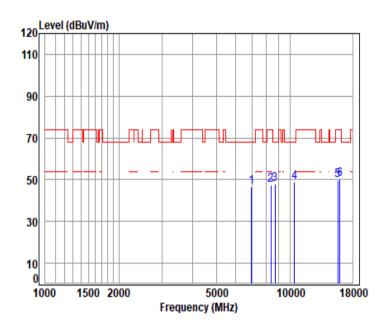


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11a TX CH 44 Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5220 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB/m dBuV dBuV/m dBuV/m 1 6959.073 11.37 36.12 56.71 55.65 46.43 68.20 -21.77 peak 8350.908 11.69 38.70 55.58 52.81 47.62 74.00 -26.38 peak 2 8689.318 12.08 38.56 55.28 52.66 48.02 68.20 -20.18 peak 3 4 pp10440.000 13.63 39.04 53.84 50.22 49.05 68.20 -19.15 peak 17.23 38.56 54.10 48.11 74.00 -24.20 peak 15660.000 49.80 15994.060 17.16 38.61 54.00 48.56 50.33 74.00 -23.67 peak



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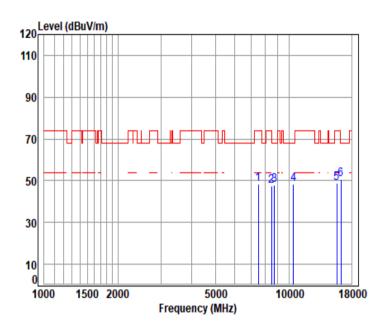


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11a\_TX\_CH\_44\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5220 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7480.987	11.28	36.80	56.32	56.38	48.14	74.00	-25.86	peak
2	8488.119	12.23	38.32	55.46	52.27	47.36	74.00	-26.64	peak
3	8733.685	12.14	38.53	55.24	52.55	47.98	68.20	-20.22	peak
4	10440.000	13.63	39.04	53.84	49.67	48.50	68.20	-19.70	peak
5	15660.000								
6	pp16290.010	17.22	38.59	54.09	48.96	50.68	68.20	-17.52	peak



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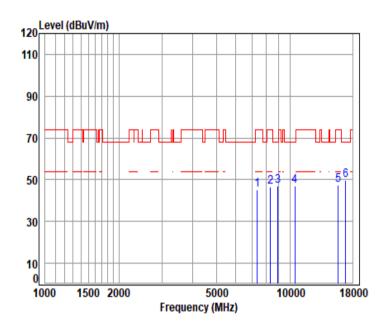


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11a\_TX\_CH\_48\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5240 TX RSE

: 5G WTFT 11A

	. 50	MILT	IIA							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	7360.057	11.50	36.78	56.41	53.34	45.21	74.00	-28.79	peak	
2	8333.913	11.72	38.44	55.60	51.85	46.41	74.00	-27.59	peak	
3	8922.510	12.20	38.55	55.07	51.23	46.91	68.20	-21.29	peak	
4	10480.000	13.64	39.08	53.81	47.99	46.90	68.20	-21.30	peak	
5	15720.000	17.22	38.58	54.08	45.91	47.63	74.00	-26.37	peak	
6	pp16846.870	17.80	39.60	54.25	46.36	49.51	68.20	-18.69	peak	



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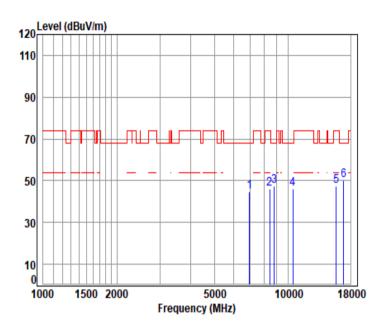


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11a\_TX\_CH\_48\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5240 TX RSE

· 5G WTFT 11Δ

	: 50	MTLT	IIA						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6951.989	11.37	36.10	56.71	53.93	44.69	68.20	-23.51	peak
2	8419.234	11.76	38.52	55.52	51.11	45.87	74.00	-28.13	peak
3	8796.179	12.24	38.50	55.18	52.10	47.66	68.20	-20.54	peak
4	10480.000	13.64	39.08	53.81	47.34	46.25	68.20	-21.95	peak
5	15720.000	17.22	38.58	54.08	45.89	47.61	74.00	-26.39	peak
6	pp16864.040	17.92	39.60	54.26	46.80	50.06	68.20	-18.14	peak



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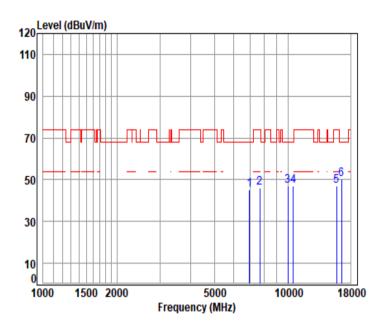


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11a TX CH 52 Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5260 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dBuV dBuV/m dBuV/m 1 6959.073 11.37 36.12 56.71 54.32 45.10 68.20 -23.10 peak 7681.751 11.38 36.90 56.15 54.15 46.28 74.00 -27.72 peak 2 3 9990.539 12.99 38.90 54.11 49.38 47.16 68.20 -21.04 peak 10520.000 13.63 39.14 53.79 48.18 47.16 68.20 -21.04 peak 15780.000 17.08 38.52 54.07 45.69 47.22 74.00 -26.78 peak 6 pp16574.540 17.67 39.12 54.17 47.49 50.11 68.20 -18.09 peak



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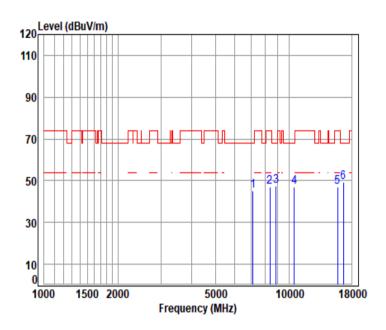


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11a\_TX\_CH\_52\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5260 TX RSE

: 5G WIFI 11A

	. 50	AATI T	117						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	53.48	45.19	68.20	-23.01	peak
2	8359.419	11.68	38.68	55.58	52.07	46.85	74.00	-27.15	peak
3	8859.119	12.23	38.52	55.13	52.03	47.65	68.20	-20.55	peak
4	10520.000	13.63	39.14	53.79	47.90	46.88	68.20	-21.32	peak
5	15780.000	17.08	38.52	54.07	45.48	47.01	74.00	-26.99	peak
6	pp16659,160	17.61	39.32	54.20	46.65	49.38	68.20	-18.82	neak



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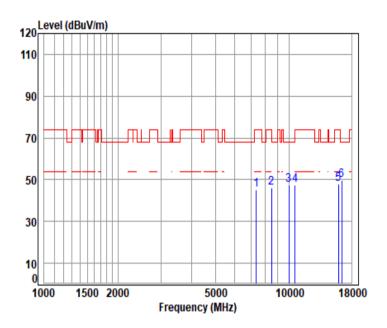


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11a\_TX\_CH\_60\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5300 TX RSE

: 5G WIFI 11A

	. 50	***	117						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	53.24	45.10	74.00	-28.90	peak
2	8470.845	12.11	38.36	55.48	50.97	45.96	74.00	-28.04	peak
3	9990.539	12.99	38.90	54.11	49.62	47.40	68.20	-20.80	peak
4	10600.000	13.59	39.30	53.74	48.20	47.35	68.20	-20.85	peak
5	15900.000	17.28	38.70	54.03	45.92	47.87	74.00	-26.13	peak
6	pp16440.030	17.39	38.84	54.13	47.41	49.51	68.20	-18.69	neak



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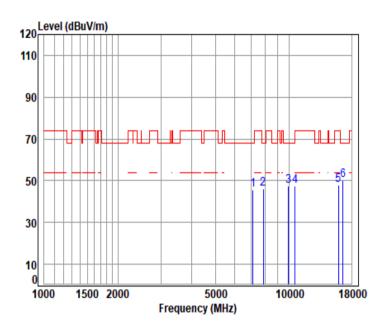


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11a\_TX\_CH\_60\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5300 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB/m dBuV dBuV/m dBuV/m 1 7116.776 11.91 36.43 56.61 53.79 45.52 68.20 -22.68 peak 2 7863.837 11.46 37.46 56.01 53.35 46.26 68.20 -21.94 peak 3 9949.918 12.90 38.90 54.15 49.99 47.64 68.20 -20.56 peak 10600.000 13.59 39.30 53.74 48.13 47.28 68.20 -20.92 peak 15900.000 17.28 38.70 54.03 45.83 47.78 74.00 -26.22 peak 6 pp16608.340 17.64 39.22 54.18 47.61 50.29 68.20 -17.91 peak



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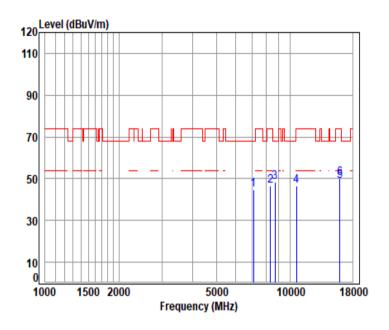


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11a\_TX\_CH\_64\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5320 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.11	44.87	68.20	-23.33	peak
2	8333.913	11.72	38.44	55.60	51.86	46.42	74.00	-27.58	peak
3	pp 8689.318	12.08	38.56	55.28	52.93	48.29	68.20	-19.91	peak
4	10640.000	13.77	39.34	53.72	47.23	46.62	74.00	-27.38	peak
5	15960.000	17.20	38.64	54.01	46.91	48.74	74.00	-25.26	peak
6	15994.060	17.16	38.61	54.00	48.27	50.04	74.00	-23.96	peak



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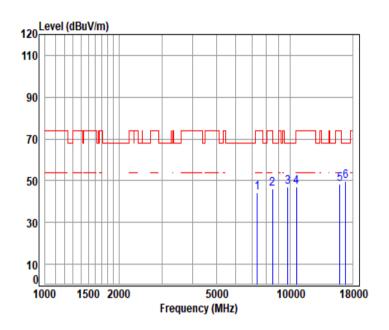


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11a\_TX\_CH\_64\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5320 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	52.49	44.36	74.00	-29.64	peak
2	8488.119	12.23	38.32	55.46	50.77	45.86	74.00	-28.14	peak
3	9789.077	13.05	38.60	54.29	49.78	47.14	68.20	-21.06	peak
4	10640.000	13.77	39.34	53.72	47.52	46.91	74.00	-27.09	peak
5	15960.000	17.20	38.64	54.01	46.64	48.47	74.00	-25.53	peak
6	pp16864.040	17.92	39.60	54.26	46.68	49.94	68.20	-18.26	peak



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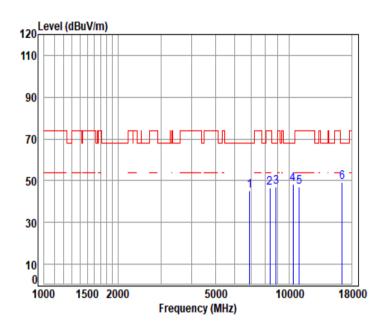


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11a TX CH 100 Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode

: 5500 TX RSE : 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB/m dBuV dBuV/m dBuV/m 6895.570 11.37 36.18 56.72 54.33 45.16 68.20 -23.04 peak 1 8342.406 11.70 38.58 55.59 51.85 46.54 74.00 -27.46 peak 2 3 8859.119 12.23 38.52 55.13 51.55 47.17 68.20 -21.03 peak 10384.810 13.61 39.00 53.87 49.82 48.56 68.20 -19.64 peak 11000.000 39.40 53.50 46.84 74.00 -27.09 peak 14.17 46.91 6 pp16500.000 17.74 38.90 54.15 46.63 49.12 68.20 -19.08 peak



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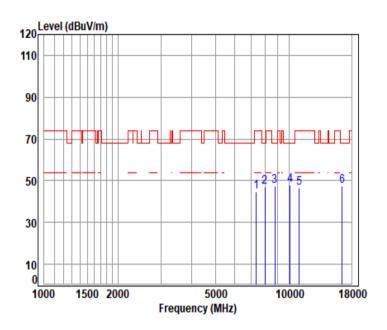


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11a\_TX\_CH\_100\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5500 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7360.057	11.50	36.78	56.41	52.84	44.71	74.00	-29.29	peak
2	7976.779	11.56	37.75	55.92	53.62	47.01	68.20	-21.19	peak
3	8751.494	12.17	38.50	55.22	52.01	47.46	68.20	-20.74	peak
4	pp10123.710	13.23	39.10	54.03	49.51	47.81	68.20	-20.39	peak
5	11000.000	14.17	39.40	53.50	46.39	46.46	74.00	-27.54	peak
6	16500.000	17.74	38.90	54.15	45.00	47.49	68.20	-20.71	peak



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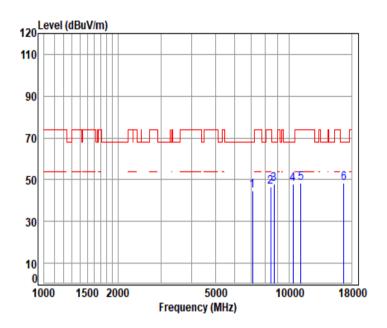


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11a\_TX\_CH\_116\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5580 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB/m dBuV dBuV/m dBuV/m 1 7102.293 11.98 36.40 56.62 52.87 44.63 68.20 -23.57 peak 2 8427.813 11.82 38.49 55.51 51.94 46.74 74.00 -27.26 peak 3 8698.174 12.09 38.59 55.27 52.60 48.01 68.20 -20.19 peak 10384.810 13.61 39.00 53.87 49.33 48.07 68.20 -20.13 peak 11160.000 14.72 39.56 53.55 47.58 48.31 74.00 -25.69 peak 6 pp16740.000 17.54 39.48 54.22 45.44 48.24 68.20 -19.96 peak



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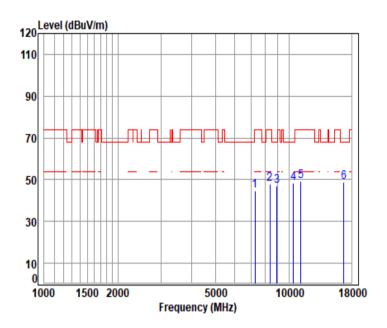


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11a\_TX\_CH\_116\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5580 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7278.053	11.51	36.66	56.48	52.87	44.56	74.00	-29.44	peak
2	8342.406	11.70	38.58	55.59	53.08	47.77	74.00	-26.23	peak
3	8931.603	12.20	38.54	55.06	51.46	47.14	68.20	-21.06	peak
4	10405.990	13.62	39.01	53.86	49.59	48.36	68.20	-19.84	peak
5	11160.000	14.72	39.56	53.55	48.45	49.18	74.00	-24.82	peak
6	pp16740.000	17.54	39.48	54.22	46.14	48.94	68.20	-19.26	peak



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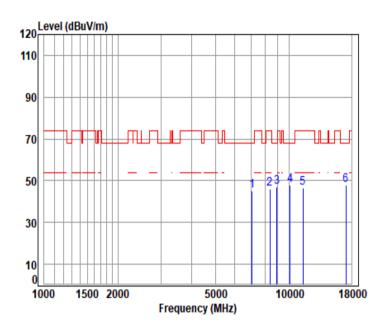


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11a\_TX\_CH\_140\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5700 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dBuV dBuV/m dBuV/m 7059.021 11.74 36.32 56.65 53.94 45.35 68.20 -22.85 peak 1 8342.406 11.70 38.58 55.59 51.42 46.11 2 74.00 -27.89 peak 3 8922.510 12.20 38.55 55.07 51.52 47.20 68.20 -21.00 peak 10113.400 13.25 39.10 54.03 49.51 47.83 68.20 -20.37 peak 11400.000 14.21 39.70 53.62 46.31 74.00 -27.40 peak 46.60 6 pp17100.000 18.47 39.80 54.32 43.96 47.91 68.20 -20.29 peak



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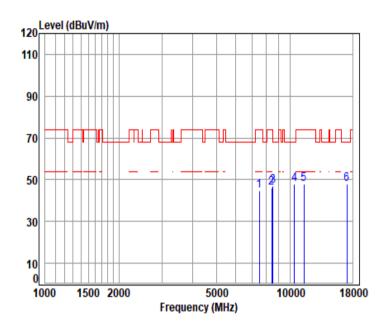


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11a\_TX\_CH\_140\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5700 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7488.611	11.26	36.80	56.31	53.06	44.81	74.00	-29.19	peak
2	8419.234	11.76	38.52	55.52	51.51	46.27	74.00	-27.73	peak
3	8514.096	12.26	38.30	55.44	52.03	47.15	68.20	-21.05	peak
4	pp10437.830	13.63	39.04	53.84	49.16	47.99	68.20	-20.21	peak
5	11400.000	14.21	39.70	53.62	47.54	47.83	74.00	-26.17	peak
6	17100.000	18.47	39.80	54.32	43.87	47.82	68.20	-20.38	peak



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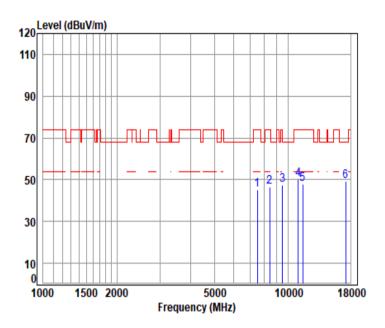


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11a\_TX\_CH\_149\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5745 TX RSE

: 5.8G WIFI 11A

	. 5.0	G MILIT	117						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7480.987	11.28	36.80	56.32	53.57	45.33	74.00	-28.67	peak
2	8419.234	11.76	38.52	55.52	51.89	46.65	74.00	-27.35	peak
3	9494.476	12.55	38.89	54.55	50.57	47.46	74.00	-26.54	peak
4	11005.580	14.20	39.41	53.50	50.14	50.25	74.00	-23.75	peak
5	11490.000	14.97	39.61	53.65	47.02	47.95	74.00	-26.05	peak
6	pp17235.000	17.83	40.01	54.35	45.59	49.08	68.20	-19.12	neak



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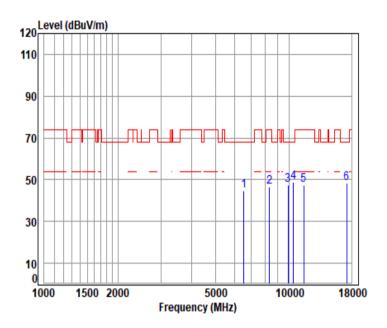


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11a\_TX\_CH\_149\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5745 TX RSE

: 5.8G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 1 6553.182 11.63 35.01 56.79 54.92 44.77 68.20 -23.43 peak 8325.429 11.73 38.31 55.61 51.99 74.00 -27.58 peak 2 46.42 9899.373 12.80 38.89 54.19 50.17 68.20 -20.53 peak 3 47.67 4 pp10437.830 13.63 39.04 53.84 49.93 48.76 68.20 -19.44 peak 14.97 39.61 53.65 46.67 11490.000 47.60 74.00 -26.40 peak 17235.000 17.83 40.01 54.35 44.95 48.44 68.20 -19.76 peak



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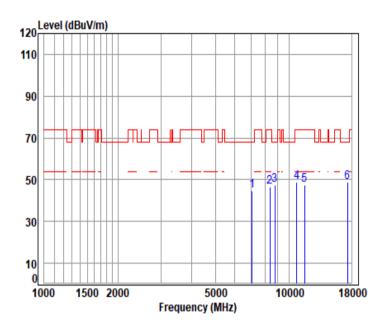


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11a\_TX\_CH\_157\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5785 TX RSE

: 5.8G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB/m dBuV dBuV/m dBuV/m 7073.416 11.83 36.35 56.64 53.31 44.85 68.20 -23.35 peak 8359.419 11.68 38.68 55.58 51.61 46.39 74.00 -27.61 peak 8760.413 12.19 38.50 55.22 51.98 47.45 68.20 -20.75 peak 10739.810 13.90 39.36 53.66 49.30 48.90 74.00 -25.10 peak 11570.000 14.78 39.60 53.67 46.92 47.63 74.00 -26.37 peak

6 pp17355.000 18.00 40.31 54.37 44.87 48.81 68.20 -19.39 peak



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2 3

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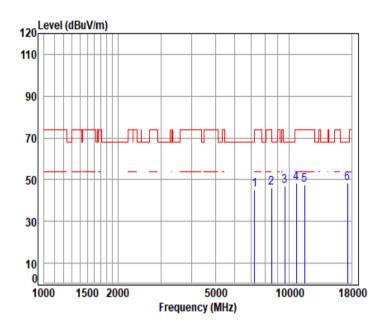


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11a\_TX\_CH\_157\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5785 TX RSE

: 5.8G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 1 7233.709 11.52 36.60 56.51 53.70 45.31 68.20 -22.89 peak 8488.119 12.23 38.32 55.46 50.96 46.05 2 74.00 -27.95 peak 3 9611.236 12.46 38.78 54.45 50.42 47.21 68.20 -20.99 peak 10717.950 13.98 39.38 53.67 48.62 48.31 74.00 -25.69 peak 11570.000 14.78 39.60 53.67 46.63 47.34 74.00 -26.66 peak 6 pp17355.000 18.00 40.31 54.37 44.21 48.15 68.20 -20.05 peak



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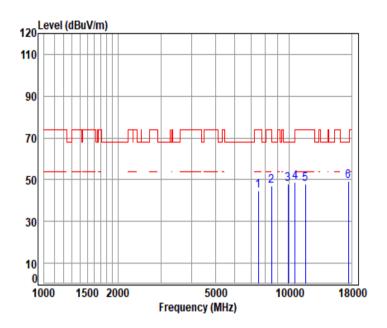


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11a\_TX\_CH\_165\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM Mode : 5825 TX RSE

: 5.8G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 7480.987 11.28 36.80 56.32 53.14 44.90 74.00 -29.10 peak 12.17 38.34 55.47 46.84 74.00 -27.16 peak 8479,478 51.80 9919.560 12.84 38.90 54.17 50.44 48.01 68.20 -20.19 peak 10609.330 13.63 39.31 53.73 49.54 48.75 74.00 -25.25 peak 39.55 53.69 47.53 48.08 74.00 -25.92 peak 11650.000 14.69

6 pp17475.000 18.35 40.78 54.40 44.51 49.24 68.20 -18.96 peak



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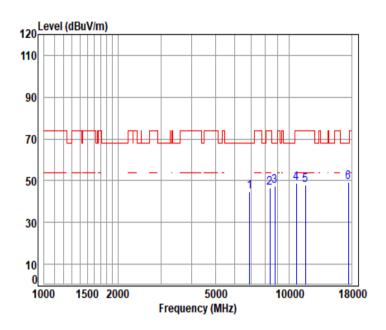


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11a\_TX\_CH\_165\_Vertical



Condition: 3m VERTICAL Job No : 03959WM Mode : 5825 TX RSE

: 5.8G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 1 6909.632 11.37 36.18 56.72 53.70 44.53 68.20 -23.67 peak 8342.406 11.70 38.58 55.59 51.80 2 46.49 74.00 -27.51 peak 3 8769.341 12.20 38.50 55.21 51.76 68.20 -20.95 peak 47.25 10696.140 14.02 39.40 53.68 49.05 48.79 74.00 -25.21 peak 39.55 53.69 47.37 11650.000 14.69 47.92 74.00 -26.08 peak 6 pp17475.000 18.35 40.78 54.40 44.52 49.25 68.20 -18.95 peak



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#### 7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

<sup>\*(1)</sup> For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) 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 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 increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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#### 7.5.1 E.U.T. Operation

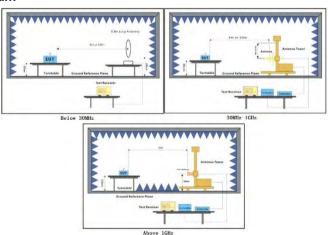
Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

7.0.2 103010	10.2 Test mode bescription										
Pre-scan / Final test	Mode Code	Description									
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.									
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.									
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.									
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.									

#### 7.5.3 Test Setup Diagram





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#### 7.5.4 Measurement Procedure and Data

- a. For below 1GHz, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- 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 (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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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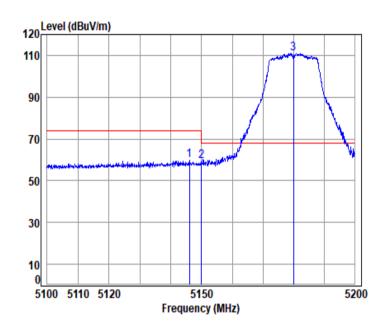


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11a\_TX\_CH\_36\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5180 Band edge

: 5G WIFI 11A

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5146.059	10.13	32.39	30.84	47.99	59.67	74.00	-14.33	peak
2		5149.980	10.14	32.40	30.84	47.56	59.26	74.00	-14.74	peak
2	nn	5190 000	10 25	32 46	30 83	00 10	111 07	68 20	12 97	nook



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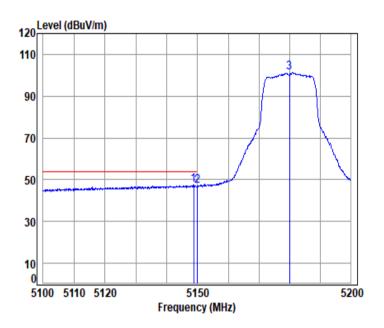


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11a\_TX\_CH\_36\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 5180 Band edge

: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp 5148.757	10.14	32.40	30.84	35.86	47.56	54.00	-6.44	Average	
5149.980	10.14	32.40	30.84	35.44	47.14	54.00	-6.86	Average	
5180 000	10 25	32 46	30 83	80 30	101 27			Λυοροσο	



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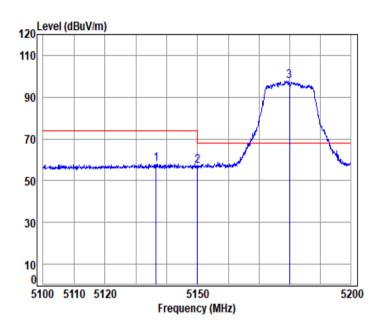


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11a\_TX\_CH\_36\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5180 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5136.574 10.09 32.37 30.85 46.41 58.02 74.00 -15.98 Peak 5149.980 10.14 32.40 30.84 45.33 57.03 74.00 -16.97 Peak 3 pp 5180.000 10.25 32.46 30.83 85.68 97.56 68.20 29.36 Peak



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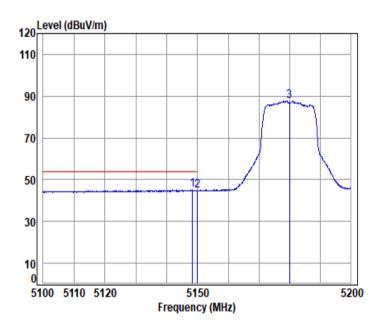


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11a\_TX\_CH\_36\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5180 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 1 pp 5148.357 10.13 32.40 30.84 33.37 45.06 54.00 -8.94 Average 5149.980 10.14 32.40 30.84 33.17 44.87 54.00 -9.13 Average 5180.000 10.25 32.46 30.83 75.80 87.68 ----- Average



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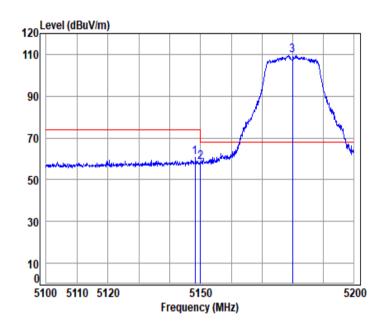


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11n\_HT(20M)\_TX\_CH\_36\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2

Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
	5148.257								•
nn	5149.980								•



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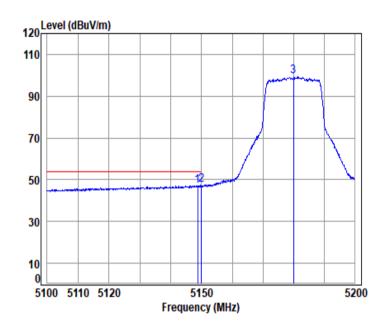


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11n\_HT(20M)\_TX\_CH\_36\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5180 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5148.757	10.14	32.40	30.84	35.42	47.12	54.00	-6.88	Average
2	pp	5149.980	10.14	32.40	30.84	35.53	47.23	54.00	-6.77	Average
3		5180.000	10.25	32.46	30.83	87.46	99.34			Average



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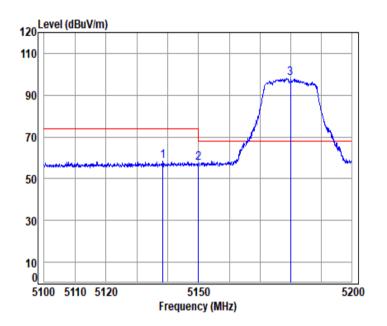


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11n\_HT(20M)\_TX\_CH\_36\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5180 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5138.470 10.10 32.38 30.84 46.76 58.40 74.00 -15.60 Peak 5149.980 10.14 32.40 30.84 45.63 57.33 74.00 -16.67 Peak 3 pp 5180.000 10.25 32.46 30.83 86.30 98.18 68.20 29.98 Peak



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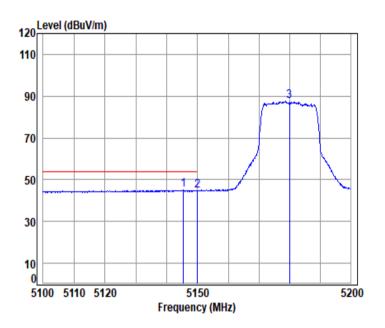


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11n\_HT(20M)\_TX\_CH\_36\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5180 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 1 pp 5145.359 10.12 32.39 30.84 33.28 44.95 54.00 -9.05 Average 5149.980 10.14 32.40 30.84 33.19 44.89 54.00 -9.11 Average 5180.000 10.25 32.46 30.83 75.52 87.40 ----- Average



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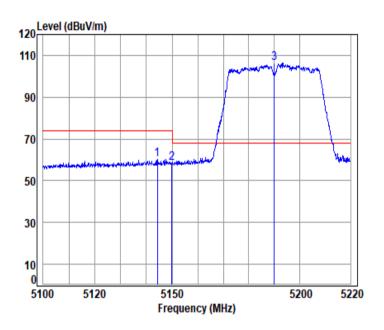


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11n\_HT(40M)\_TX\_CH\_38\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5144.314 5149.980 5190.000	10.14	32.40	30.84	46.67	58.37	74.00	-15.63	peak



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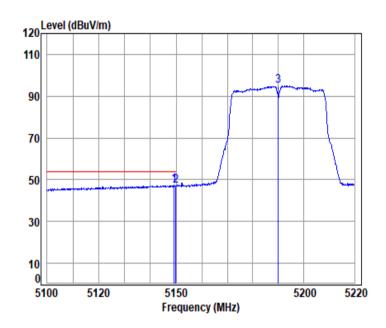


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11n\_HT(40M)\_TX\_CH\_38\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.342	10.14	32.40	30.84	35.55	47.25	54.00	-6.75	Average
2	5149.980	10.14	32.40	30.84	35.46	47.16	54.00	-6.84	Average
3	5190.000	10.29	32.48	30.82	82.92	94.87			Average



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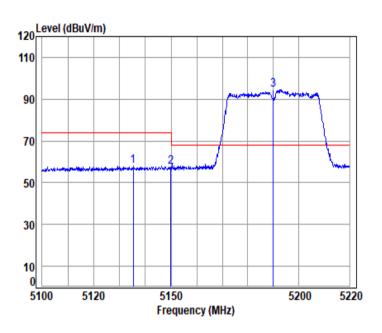


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11n\_HT(40M)\_TX\_CH\_38\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5190 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 5135.229 10.08 32.37 30.85 46.42 58.02 74.00 -15.98 Peak 5149.980 10.14 32.40 30.84 45.88 57.58 74.00 -16.42 Peak 3 pp 5190.000 10.29 32.48 30.82 82.38 94.33 68.20 26.13 Peak



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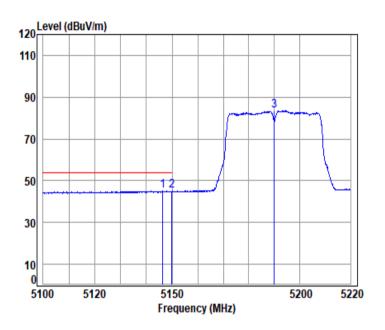


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11n\_HT(40M)\_TX\_CH\_38\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5190 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5146.349 10.13 32.39 30.84 33.28 44.96 54.00 -9.04 Average 2 pp 5149.980 10.14 32.40 30.84 33.27 44.97 54.00 -9.03 Average 5190.000 10.29 32.48 30.82 71.58 83.53 ----- Average



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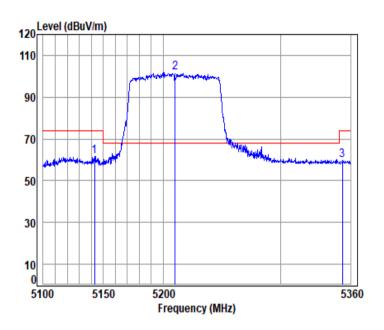


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11ac\_VHT(80M)\_TX\_CH\_42\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5210 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5142.526 10.11 32.39 30.84 50.15 61.81 74.00 -12.19 peak 2 pp 5210.000 10.32 32.52 30.82 89.61 101.63 68.20 33.43 peak 5353.075 10.46 32.80 30.76 47.07 59.57 74.00 -14.43 peak



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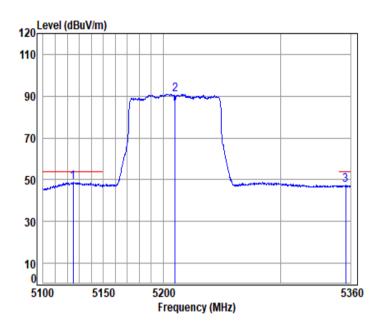


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11ac\_VHT(80M)\_TX\_CH\_42\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5124.913 5210.000								_
	5356.004								_



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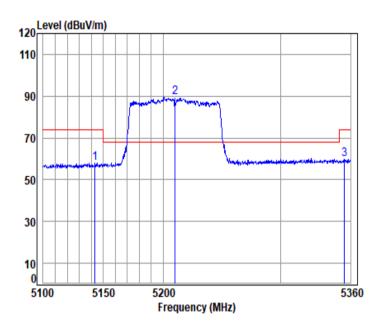


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11ac\_VHT(80M)\_TX\_CH\_42\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

: 5210 Band edge Mode

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 5143.037 10.11 32.39 30.84 46.27 57.93 74.00 -16.07 Peak 2 pp 5210.000 10.32 32.52 30.82 77.23 89.25 68.20 21.05 Peak 5354.672 10.47 32.80 30.76 47.37 59.88 74.00 -14.12 Peak



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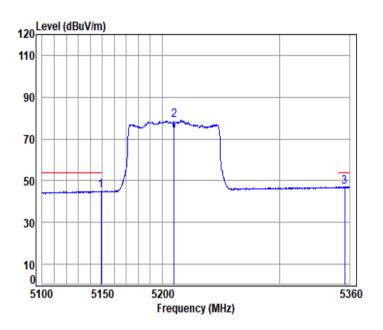


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11ac\_VHT(80M)\_TX\_CH\_42\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

: 5210 Band edge Mode

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5148.667 10.13 32.40 30.84 33.33 45.02 54.00 -8.98 Average 5210.000 10.32 32.52 30.82 66.91 78.93 ----- Average 3 pp 5355.737 10.47 32.80 30.76 34.51 47.02 54.00 -6.98 Average



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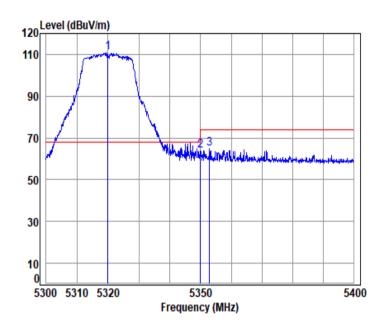


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11a TX CH 64 Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2

Mode : 5320 Band edge

· 5G WTFT 11Δ

	: 56	MTLT	IIA						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5320.000	10.35	32.74	30.77	98.55	110.87	68.20	42.67	peak
	5350.020								•
	5352.867								



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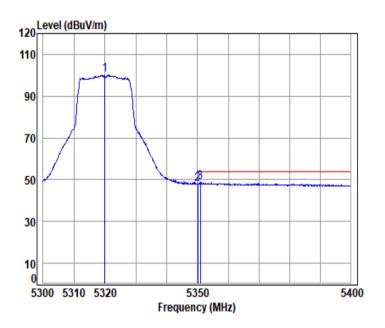


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11a\_TX\_CH\_64\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2

Mode : 5320 Band edge

: 5G WIFI 11A

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
L	5	320.000	10.35	32.74	30.77	87.85	100.17			Average	
2	5	350.167	10.45	32.80	30.76	35.41	47.90	54.00	-6.10	Average	
2	nn 5	350 066	10 /5	32 80	30 76	36 45	18 01	54 00	5 06	Avonago	



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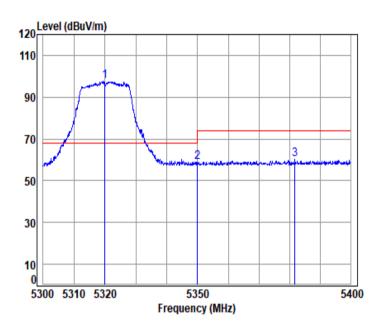


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11a\_TX\_CH\_64\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5320 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 5320.000 10.35 32.74 30.77 85.34 97.66 68.20 29.46 Peak 5350.020 10.45 32.80 30.76 46.27 58.76 74.00 -15.24 Peak 5381.761 10.56 32.80 30.75 47.68 60.29 74.00 -13.71 Peak



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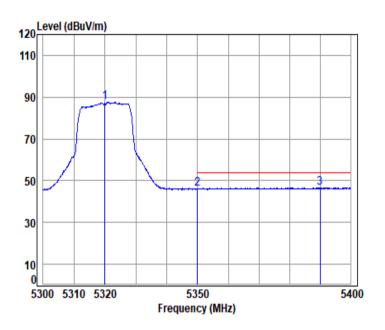


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11a\_TX\_CH\_64\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5320 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m 5320.000 10.35 32.74 30.77 75.31 87.63 ----- Average 5350.020 10.45 32.80 30.76 33.66 46.15 54.00 -7.85 Average 3 pp 5390.017 10.59 32.80 30.74 34.07 46.72 54.00 -7.28 Average



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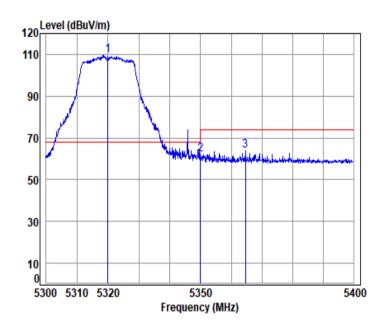


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11n\_HT(20M)\_TX\_CH\_64\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2

Mode : 5320 Band edge

5G WTFT 11N20

	: 50	MTLT	TIMZO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5320.000	10.35	32.74	30.77	97.05	109.37	68.20	41.17	peak
	5350.020								•
	5364.586								•



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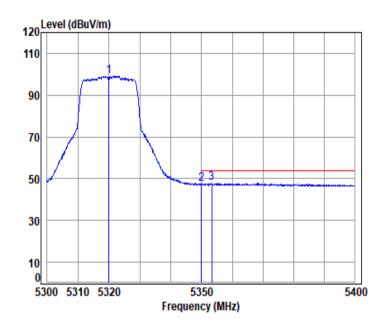


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11n\_HT(20M)\_TX\_CH\_64\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5320 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5320.000 5350.020 5353.268	10.45	32.80	30.76	35.14	47.63	54.00	-6.37	Average



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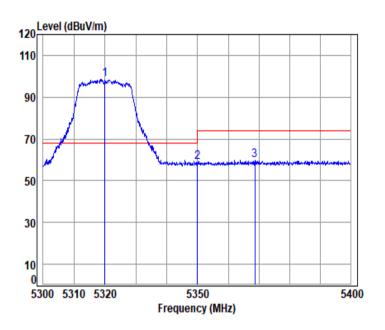


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11n\_HT(20M)\_TX\_CH\_64\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5320 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 5320.000 10.35 32.74 30.77 86.35 98.67 68.20 30.47 Peak 5350.020 10.45 32.80 30.76 46.16 58.65 74.00 -15.35 Peak 5368.700 10.51 32.80 30.75 47.02 59.58 74.00 -14.42 Peak



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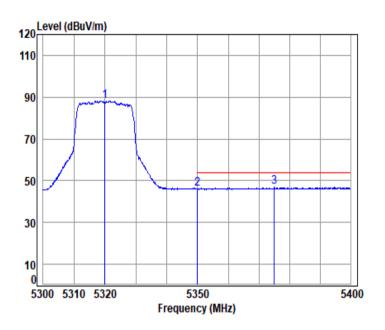


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11n\_HT(20M)\_TX\_CH\_64\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5320 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5320.000 10.35 32.74 30.77 75.90 88.22 ----- Average 5350.020 10.45 32.80 30.76 33.65 46.14 54.00 -7.86 Average 3 pp 5375.025 10.54 32.80 30.75 34.23 46.82 54.00 -7.18 Average



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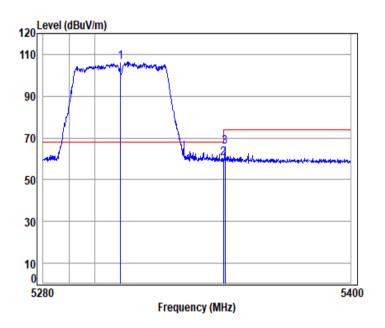


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11n\_HT(40M)\_TX\_CH\_62\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5310 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	94.06	106.31	68.20	38.11	peak
2	5350.020	10.45	32.80	30.76	47.88	60.37	74.00	-13.63	peak
3	5350.714	10.45	32.80	30.76	53.32	65.81	74.00	-8.19	peak



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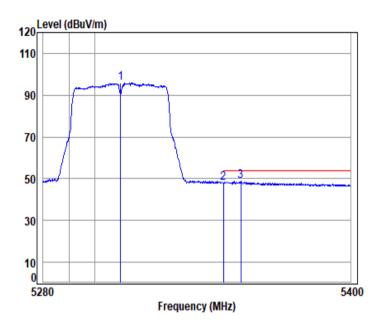


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11n\_HT(40M)\_TX\_CH\_62\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5310 Band edge

: 5G WIFI 11N40

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1		5310.000	10.31	32.72	30.78	83.68	95.93			Average	
2		5350.020	10.45	32.80	30.76	35.63	48.12	54.00	-5.88	Average	
3	nn	5356,850	10.47	32.80	30.76	36.27	48.78	54.00	-5.22	Average	



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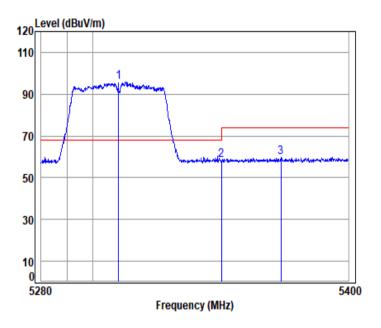


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11n\_HT(40M)\_TX\_CH\_62\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5310 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 5310.000 10.31 32.72 30.78 83.67 95.92 68.20 27.72 Peak 5350.020 10.45 32.80 30.76 45.82 58.31 74.00 -15.69 Peak 5373.368 10.53 32.80 30.75 47.07 59.65 74.00 -14.35 Peak



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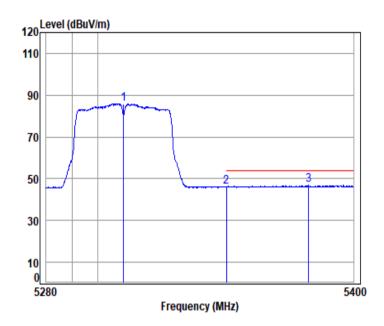


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11n\_HT(40M)\_TX\_CH\_62\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5310 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5310.000 10.31 32.72 30.78 73.59 85.84 ----- Average 5350.020 10.45 32.80 30.76 33.63 46.12 54.00 -7.88 Average 3 pp 5382.312 10.56 32.80 30.75 34.37 46.98 54.00 -7.02 Average



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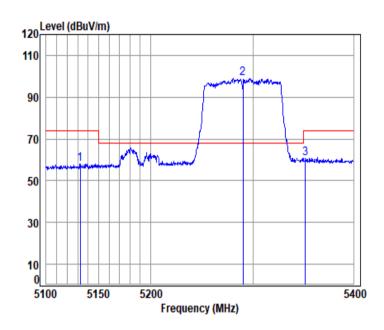


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11ac\_VHT(80M)\_TX\_CH\_58\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5290 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5132.460 10.07 32.36 30.85 46.59 58.17 74.00 -15.83 peak 2 pp 5290.000 10.28 32.68 30.78 86.84 99.02 68.20 30.82 peak 5351.758 10.46 32.80 30.76 48.26 60.76 74.00 -13.24 peak



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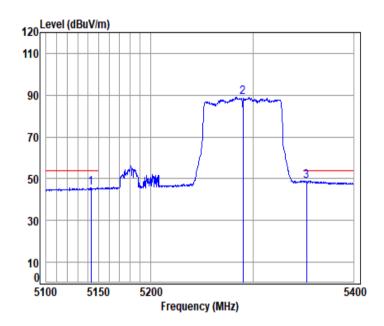


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11ac\_VHT(80M)\_TX\_CH\_58\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5290 Band edge

: 5G WIFI 11AC80

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1		5142.738	10.11	32.39	30.84	33.89	45.55	54.00	-8.45	Average	
2		5290.000	10.28	32.68	30.78	76.79	88.97			Average	
3	ממ	5352.981	10.46	32.80	30.76	36.37	48.87	54.00	-5.13	Average	



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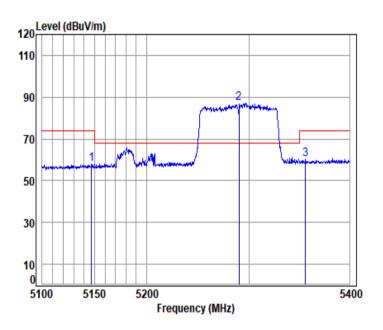


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11ac\_VHT(80M)\_TX\_CH\_58\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

: 5290 Band edge Mode

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 5147.149 10.13 32.39 30.84 46.47 58.15 74.00 -15.85 Peak 2 pp 5290.000 10.28 32.68 30.78 74.78 86.96 68.20 18.76 Peak 5356.042 10.47 32.80 30.76 47.53 60.04 74.00 -13.96 Peak



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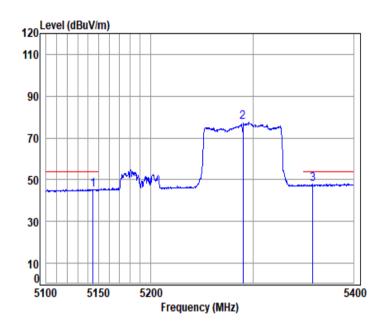


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11ac\_VHT(80M)\_TX\_CH\_58\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

: 5290 Band edge Mode

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5144.796 10.12 32.39 30.84 33.71 45.38 54.00 -8.62 Average 5290.000 10.28 32.68 30.78 65.20 77.38 ----- Average 3 pp 5359.411 10.48 32.80 30.76 35.32 47.84 54.00 -6.16 Average



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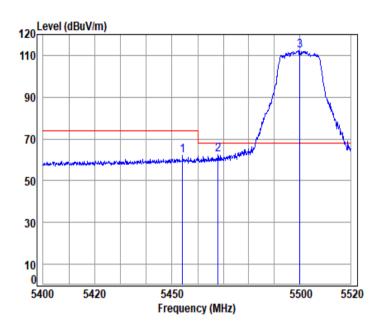


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11a\_TX\_CH\_100\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5500 Band edge

· 5G WTFT 11Δ

	: 56	MTLT	IIA						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			,						
1	5454.033	10 60	32 90	30 72	49 27	62 05	74 99	-11 95	neak
									•
2	5467.957	10.59	32.90	30.71	49.70	62.48	68.20	-5.72	peak
3 pp	5500.000	10.58	32.90	30.70	99.40	112.18	68.20	43.98	peak



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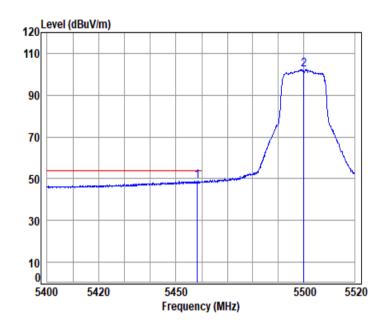


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11a\_TX\_CH\_100\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5500 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m

1 pp 5458.351 10.60 32.90 30.72 35.90 48.68 54.00 -5.32 Average 5500.000 10.58 32.90 30.70 89.31 102.09 ----- Average



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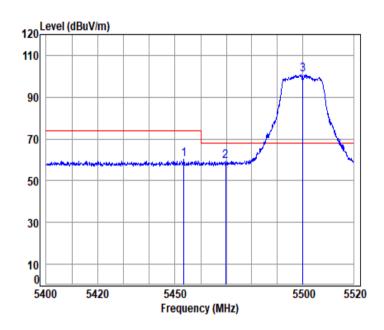


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11a\_TX\_CH\_100\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5500 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5453.434 10.60 32.90 30.72 47.43 60.21 74.00 -13.79 Peak 5469.759 10.59 32.90 30.71 46.64 59.42 68.20 -8.78 peak 3 pp 5500.000 10.58 32.90 30.70 88.02 100.80 68.20 32.60 Peak



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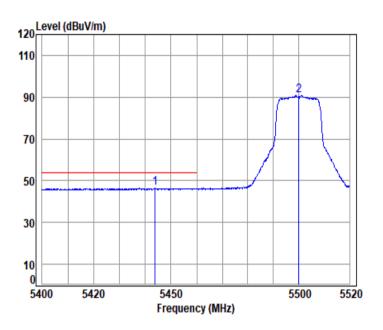


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11a\_TX\_CH\_100\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5500 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m

1 pp 5443.854 10.60 32.89 30.72 33.68 46.45 54.00 -7.55 Average 5500.000 10.58 32.90 30.70 78.03 90.81 ----- Average



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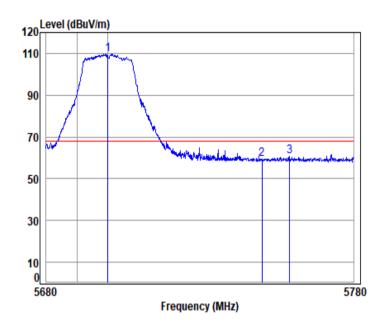


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11a\_TX\_CH\_140\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 5700 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	5700.000								•
	5750.000 5759.056								



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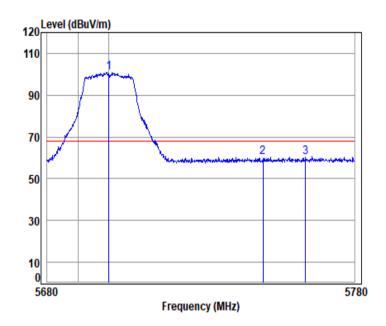


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11a\_TX\_CH\_140\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5700 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 30.62 87.50 100.64 68.20 32.44 Peak 1 pp 5700.000 10.56 33.20 5750.000 10.79 33.30 30.60 46.72 60.21 68.20 -7.99 Peak 5763.882 10.85 33.33 30.59 46.52 60.11 68.20 -8.09 Peak



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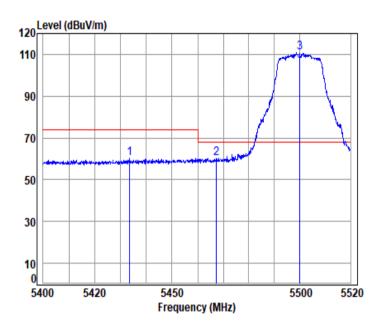


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11n\_HT(20M)\_TX\_CH\_100\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2

Mode : 5500 Band edge

: 5G WIFI 11N20

Freq			Preamp Factor					
MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
5433.573	10.61	32.87	30.73	47.40	60.15	74.00	-13.85	peak
5467.355	10.59	32.90	30.71	47.65	60.43	68.20	-7.77	peak
n 5500 000	10 52	32 00	30 70	97 97	110 65	68 20	12 15	nook



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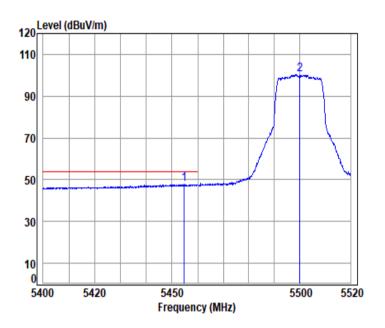


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11n\_HT(20M)\_TX\_CH\_100\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5500 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark

dBuV dBuV/m dBuV/m

1 pp 5454.752 10.60 32.90 30.72 34.97 47.75 54.00 -6.25 Average 5500.000 10.58 32.90 30.70 87.50 100.28 ----- Average



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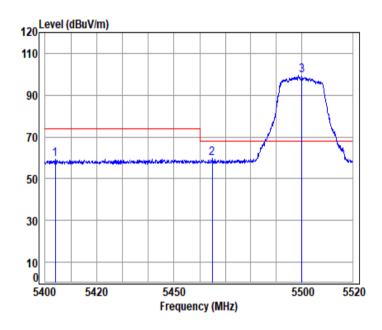


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11n\_HT(20M)\_TX\_CH\_100\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5500 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5403.918 10.62 32.81 30.74 46.78 59.47 74.00 -14.53 Peak 5464.833 10.59 32.90 30.71 46.93 59.71 68.20 -8.49 peak 3 pp 5500.000 10.58 32.90 30.70 86.53 99.31 68.20 31.11 Peak



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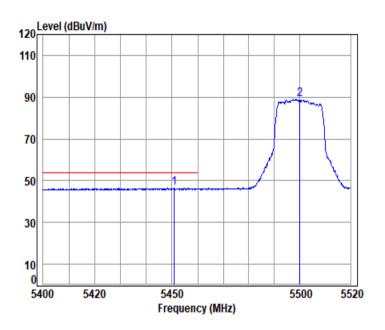


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11n\_HT(20M)\_TX\_CH\_100\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

: 5500 Band edge Mode

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark

dBuV dBuV/m dBuV/m

1 pp 5450.917 10.60 32.90 30.72 33.60 46.38 54.00 -7.62 Average 5500.000 10.58 32.90 30.70 76.04 88.82 ----- Average



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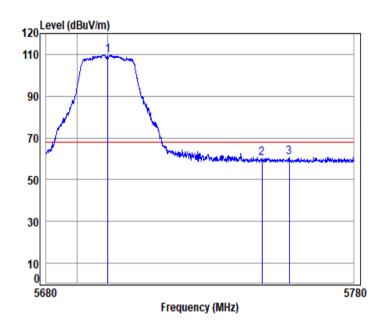


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11n\_HT(20M)\_TX\_CH\_140\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 5700 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	5700.000								•
	5750.000 5758.956								



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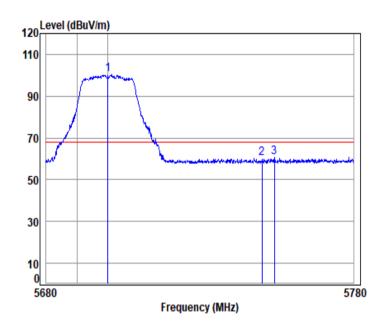


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11n\_HT(20M)\_TX\_CH\_140\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5700 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 30.62 87.08 100.22 68.20 32.02 Peak 1 pp 5700.000 10.56 33.20 5750.000 10.79 33.30 30.60 46.66 60.15 68.20 -8.05 Peak 5754.133 10.81 33.31 30.60 47.01 60.53 68.20 -7.67 Peak



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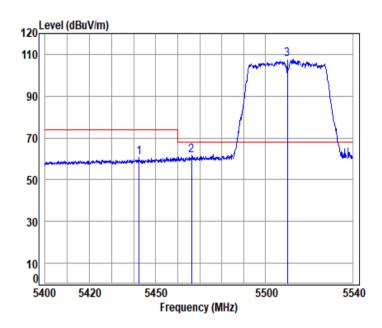


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11n\_HT(40M)\_TX\_CH\_102\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5510 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5442.460 5466.333 5510.000	10.59	32.90	30.71	48.76	61.54	68.20	-6.66	peak



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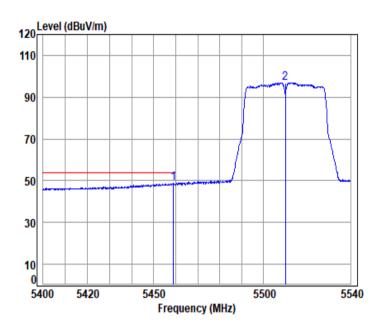


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11n\_HT(40M)\_TX\_CH\_102\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5510 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark

dBuV dBuV/m dBuV/m

1 pp 5458.923 10.60 32.90 30.72 35.91 48.69 54.00 -5.31 Average 5510.000 10.56 32.90 30.70 84.04 96.80 ----- Average



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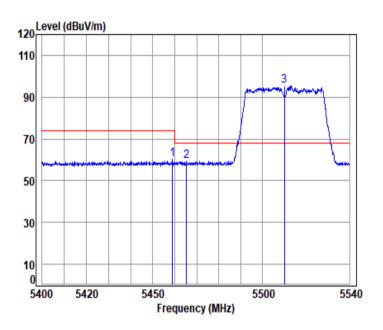


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11n\_HT(40M)\_TX\_CH\_102\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5510 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5458.923 10.60 32.90 30.72 47.42 60.20 74.00 -13.80 Peak 5465.354 10.59 32.90 30.71 46.59 59.37 68.20 -8.83 peak 3 pp 5510.000 10.56 32.90 30.70 82.72 95.48 68.20 27.28 Peak



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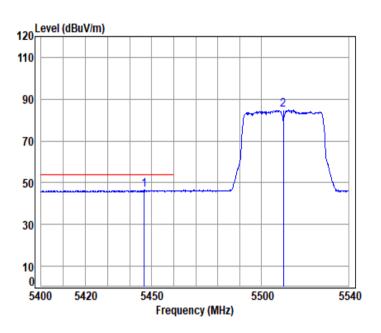


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11n\_HT(40M)\_TX\_CH\_102\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5510 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark

dBuV dBuV/m dBuV/m

1 pp 5446.501 10.60 32.89 30.72 33.71 46.48 54.00 -7.52 Average 5510.000 10.56 32.90 30.70 71.94 84.70 ----- Average



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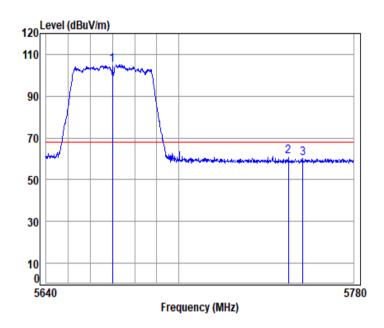


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11n\_HT(40M)\_TX\_CH\_134\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 5670 Band edge

: 5G WIFI 11N40

	Frea			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5670 000	40.50	22.44	20.62	04.00	404.05	60.00	26.65	
pp	5670.000	10.52	33.14	30.63	91.82	104.85	68.20	36.65	peak
	5750.000	10.79	33.30	30.60	47.54	61.03	68.20	-7.17	peak
	5756 663	10 92	22 21	30 60	16 67	60 20	68 20	9 00	nook



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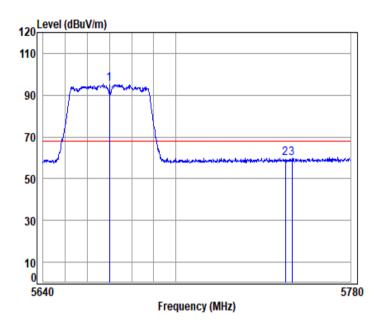


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11n\_HT(40M)\_TX\_CH\_134\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5670 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 5670.000 10.52 33.14 30.63 82.19 95.22 68.20 27.02 Peak 5750.000 10.79 33.30 30.60 46.24 59.73 68.20 -8.47 Peak 5753.135 10.80 33.31 30.60 46.35 59.86 68.20 -8.34 Peak



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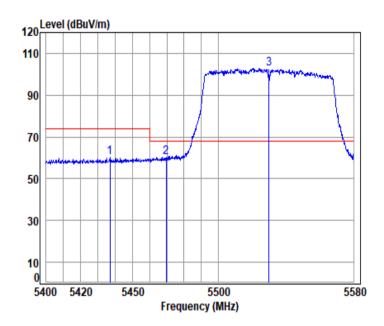


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11ac\_VHT(80M)\_TX\_CH\_106\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5530 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5436.956 5469.499 5530.000	10.59	32.90	30.71	47.54	60.32	68.20	-7.88	peak



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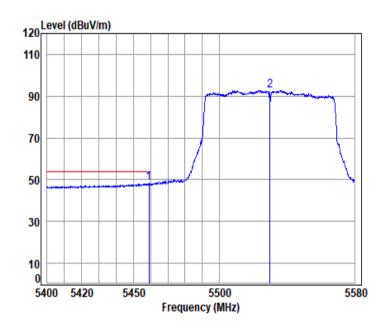


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11ac\_VHT(80M)\_TX\_CH\_106\_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5530 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark

dB/m dBuV dBuV/m dBuV/m

1 pp 5459.107 10.60 32.90 30.72 35.64 48.42 54.00 -5.58 Average 5530.000 10.53 32.90 30.69 80.11 92.85 ----- Average



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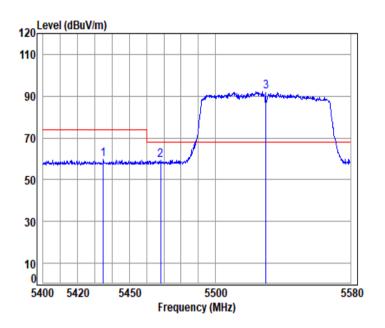


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11ac\_VHT(80M)\_TX\_CH\_106\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5530 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5434.638 10.61 32.87 30.73 46.87 59.62 74.00 -14.38 Peak 5468.244 10.59 32.90 30.71 46.70 59.48 68.20 -8.72 peak 3 pp 5530.000 10.53 32.90 30.69 79.64 92.38 68.20 24.18 Peak



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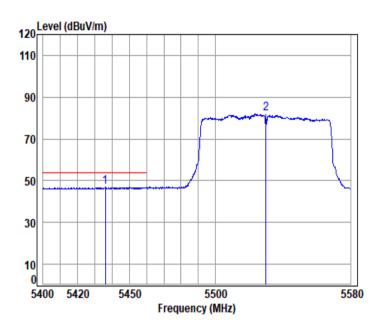


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11ac\_VHT(80M)\_TX\_CH\_106\_Vertical-Avg



Condition: 3m VERTICAL Job No : 03959WM

: 5530 Band edge Mode

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark

dBuV dBuV/m dBuV/m

1 pp 5435.886 10.61 32.87 30.73 34.29 47.04 54.00 -6.96 Average 5530.000 10.53 32.90 30.69 69.19 81.93 ----- Average



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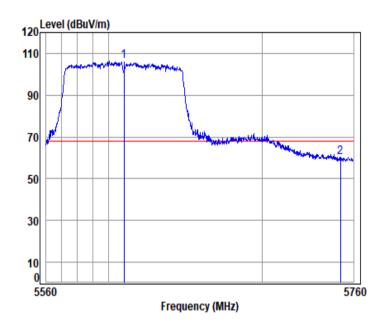


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11ac\_VHT(80M)\_TX\_CH\_122\_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03959WM

: 5610 Band edge Mode

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark

dBuV dBuV/m dBuV/m dB/m

1 pp 5610.000 10.43 33.02 30.66 93.33 106.12 68.20 37.92 peak 5751.254 10.80 33.30 30.60 46.75 60.25 68.20 -7.95 peak



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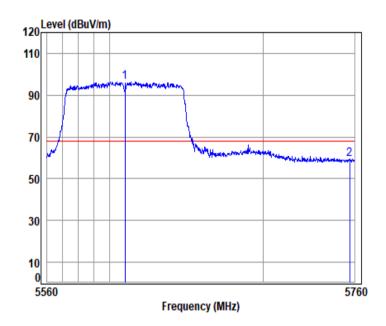


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11ac\_VHT(80M)\_TX\_CH\_122\_Vertical-Peak



Condition: 3m VERTICAL Job No : 03959WM

: 5610 Band edge Mode

: 5G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB dB/m dBuV dBuV/m dBuV/m

1 pp 5610.000 10.43 33.02 30.66 83.67 96.46 68.20 28.26 Peak 5756.947 10.82 33.31 30.60 45.93 59.46 68.20 -8.74 Peak



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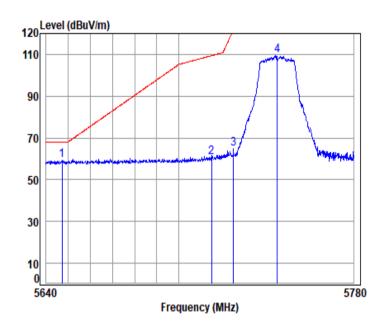


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11a\_TX\_CH\_149\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

1 2 3

Mode : 5745 Band edge

: 5.8G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
l pp	5647.196	10.48	33.09	30.64	46.37	59.30	68.20	-8.90	peak
2	5715.000	10.63	33.23	30.61	47.45	60.70	109.40	-48.70	peak
3	5725.000	10.68	33.25	30.61	51.43	64.75	122.20	-57.45	peak
1	5745.000	10.77	33.29	30.60	95.82	109.28			peak



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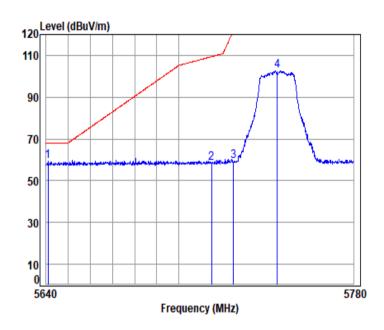


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Report No.: SZCR241000395907

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11a\_TX\_CH\_149\_Vertical



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5745 Band edge

: 5.8G WIFI 11A

Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m dB/m 1 pp 5640.830 10.47 33.08 30.64 46.26 59.17 68.20 -9.03 peak 5715.000 10.63 33.23 30.61 45.33 58.58 109.40 -50.82 peak 3 5725.000 10.68 33.25 30.61 46.14 59.46 122.20 -62.74 peak 5745.000 10.77 33.29 30.60 89.20 102.66 ----- peak



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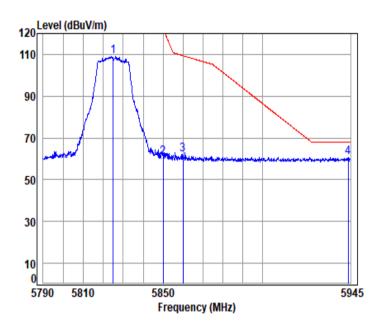


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11a\_TX\_CH\_165\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5825 Band edge

: 5.8G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	95.06	108.98			peak
2	5850.000	10.95	33.60	30.56	46.74	60.73	122.20	-61.47	peak
3	5860.000	10.94	33.58	30.56	48.09	62.05	109.40	-47.35	peak
4 pp	5943.744	10.86	33.59	30.52	46.90	60.83	68.20	-7.37	peak



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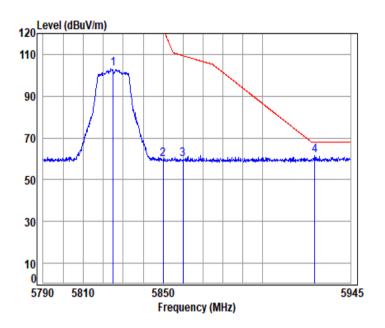


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11a\_TX\_CH\_165\_Vertical



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5825 Band edge

: 5.8G WIFI 11A

Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5825.000 10.99 33.50 30.57 89.15 103.07 ----- peak 5850.000 10.95 33.60 30.56 45.66 59.65 122.20 -62.55 peak 5860.000 10.94 33.58 30.56 46.00 59.96 109.40 -49.44 peak 4 pp 5926.810 10.87 33.55 30.53 47.60 61.49 68.20 -6.71 peak



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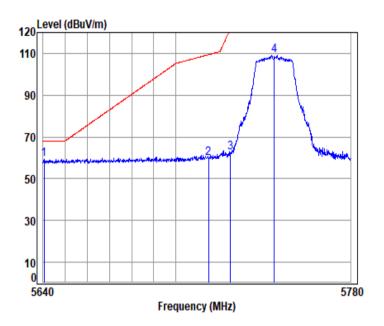


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11n\_HT(20M)\_TX\_CH\_149\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5745 Band edge

: 5.8G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 1 pp 5640.415 10.47 33.08 30.64 46.54 59.45 68.20 -8.75 peak 5715.000 10.63 33.23 30.61 46.52 59.77 109.40 -49.63 peak 5725.000 10.68 33.25 30.61 49.14 62.46 122.20 -59.74 peak

5745.000 10.77 33.29 30.60 95.55 109.01 ----- peak



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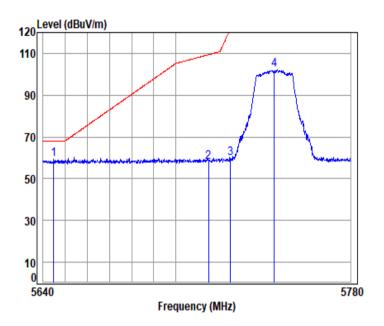


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11n\_HT(20M)\_TX\_CH\_149\_Vertical



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5745 Band edge

: 5.8G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 5644.842 10.48 33.09 30.64 46.18 59.11 68.20 -9.09 peak 5715.000 10.63 33.23 30.61 44.90 58.15 109.40 -51.25 peak 5725.000 10.68 33.25 30.61 46.63 59.95 122.20 -62.25 peak

5745.000 10.77 33.29 30.60 88.78 102.24 ----- peak



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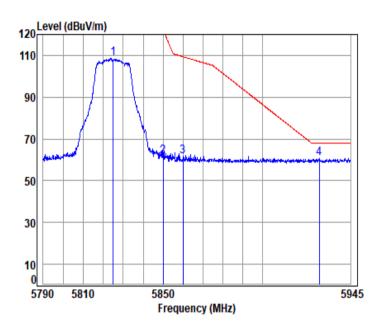


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11n\_HT(20M)\_TX\_CH\_165\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

1

Mode : 5825 Band edge

: 5.8G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5825.000 10.99 33.50 30.57 94.84 108.76 ----- peak 5850.000 10.95 33.60 30.56 47.55 61.54 122.20 -60.66 peak 5860.000 10.94 33.58 30.56 47.55 61.51 109.40 -47.89 peak 4 pp 5929.002 10.87 33.56 30.53 46.85 60.75 68.20 -7.45 peak



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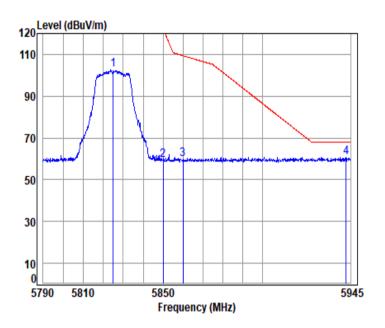


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11n\_HT(20M)\_TX\_CH\_165\_Vertical



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5825 Band edge

: 5.8G WIFI 11N20

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5825.000 10.99 33.50 30.57 88.60 102.52 ----- peak 5850.000 10.95 33.60 30.56 45.28 59.27 122.20 -62.93 peak 5860.000 10.94 33.58 30.56 45.67 59.63 109.40 -49.77 peak 4 pp 5942.802 10.86 33.59 30.52 46.97 60.90 68.20 -7.30 peak



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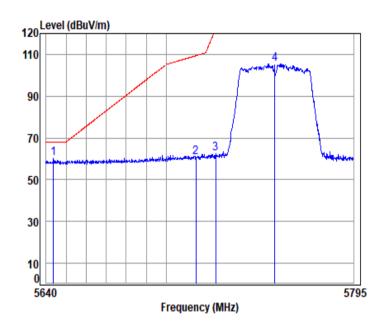


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11n\_HT(40M)\_TX\_CH\_151\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5755 Band edge

: 5.8G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 5643.671 10.48 33.09 30.64 47.31 60.24 68.20 -7.96 peak 5715.000 10.63 33.23 30.61 47.47 60.72 109.40 -48.68 peak 5725.000 10.68 33.25 30.61 49.01 62.33 122.20 -59.87 peak

5755.000 10.81 33.31 30.60 91.99 105.51 ----- peak



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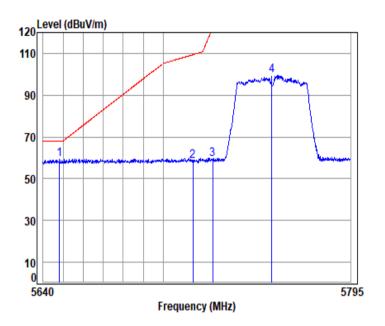


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11n\_HT(40M)\_TX\_CH\_151\_Vertical



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5755 Band edge

: 5.8G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dB/m dBuV dBuV/m dBuV/m 1 pp 5648.110 10.48 33.10 30.64 46.37 59.31 68.20 -8.89 peak 5715.000 10.63 33.23 30.61 45.12 58.37 109.40 -51.03 peak 5725.000 10.68 33.25 30.61 45.91 59.23 122.20 -62.97 peak

5755.000 10.81 33.31 30.60 85.94 99.46 ----- peak



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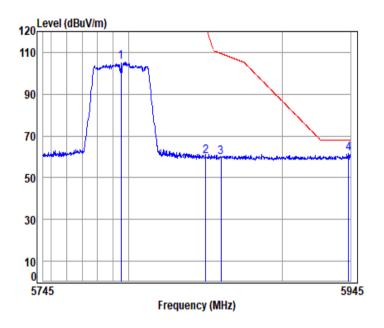


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11n\_HT(40M)\_TX\_CH\_159\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5795 Band edge

: 5.8G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	91.55	105.36			peak
2	5850.000	10.95	33.60	30.56	46.37	60.36	122.20	-61.84	peak
3	5860.000	10.94	33.58	30.56	45.91	59.87	109.40	-49.53	peak
	5943.779								



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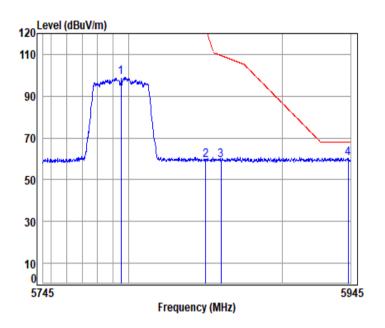


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11n\_HT(40M)\_TX\_CH\_159\_Vertical



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5795 Band edge

: 5.8G WIFI 11N40

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m dB/m 5795.000 11.00 33.39 30.58 85.04 98.85 ----- peak 5850.000 10.95 33.60 30.56 45.50 59.49 122.20 -62.71 peak 5860.000 10.94 33.58 30.56 45.34 59.30 109.40 -50.10 peak 4 pp 5943.576 10.86 33.59 30.52 46.49 60.42 68.20 -7.78 peak



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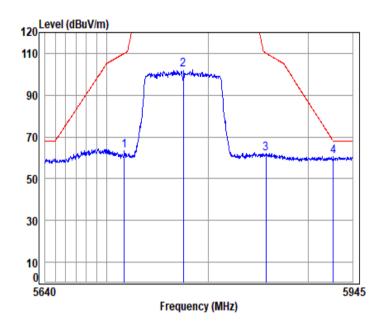


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11ac\_VHT(80M)\_TX\_CH\_155\_Horizontal



Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 5775 Band edge

: 5.8G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5717.159	10.64	33.23	30.61	49.96	63.22	110.01	-46.79	peak
2	5775.000	10.91	33.35	30.59	88.32	101.99			peak
3	5857.666	10.95	33.58	30.56	48.11	62.08	110.05	-47.97	peak
4 pp	5925.307	10.87	33.55	30.53	46.58	60.47	68.20	-7.73	peak



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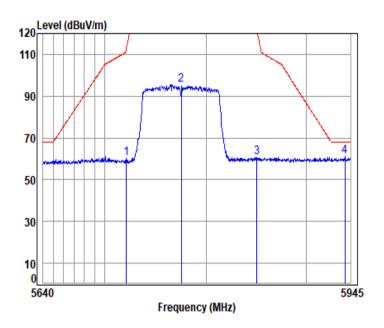


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11ac\_VHT(80M)\_TX\_CH\_155\_Vertical



Condition: 3m VERTICAL Job No : 03959WM

Mode : 5775 Band edge

: 5.8G WIFI 11AC80

Cable Ant Preamp Limit Read Loss Factor Factor Level Level Limit Remark dBuV dBuV/m dBuV/m 5721.075 10.66 33.24 30.61 46.92 60.21 113.25 -53.04 peak 1 5775.000 10.91 33.35 30.59 81.80 95.47 ----- peak 5850.575 10.95 33.60 30.56 46.73 60.72 120.89 -60.17 peak 4 pp 5939.367 10.86 33.58 30.52 47.11 61.03 68.20 -7.17 peak



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### 7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

#### Limit:

Test item	Limit	Applicability		
		Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

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.

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 37.5 % RH Atmospheric Pressure: 1020 mbar



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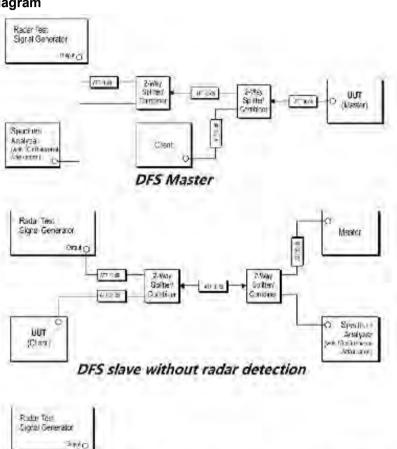
Report No.: SZCR241000395907

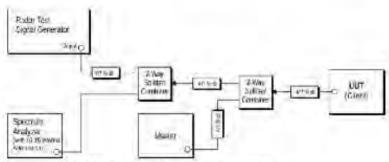
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### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

### 7.6.3 Test Setup Diagram





DFS slave with radar detection



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#### 7.6.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin. S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details





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## 7.7 Duty Cycle

Test Requirement KDB 789033 D02 II B 1 Test Method: KDB 789033 D02 II B 1

### 7.7.1 E.U.T. Operation

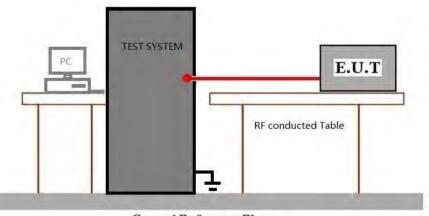
Operating Environment:

Temperature: 24.4 °C Humidity: 33.8 % RH Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

7.7.2 103t W	7.7.2 Test Mode Description					
Pre-scan / Final test	Mode Code	Description				
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				

### 7.7.3 Test Setup Diagram



Ground Reference Plane

#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 99% Bandwidth

**Test Requirement** N/A

Test Method: KDB 789033 D02 II D

### 7.8.1 E.U.T. Operation

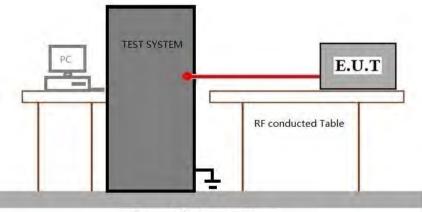
Operating Environment:

Temperature: 24.3 °C Humidity: 34.0 % RH Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

7.0.2 10001	7.0.2 Test mode bescription				
Pre-scan / Final test	Mode Code	Description			
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.			

### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

### Please Refer to Appendix for Details



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### 7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

### 7.9.1 E.U.T. Operation

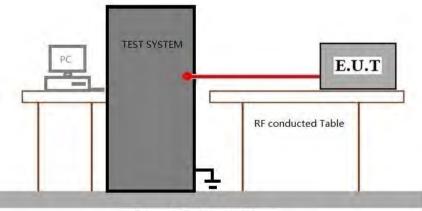
Operating Environment:

Temperature: 24.3 °C Humidity: 34.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

1.0.2 Test mode Besonption				
Pre-scan / Final test	Mode Code	Description		
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		

### 7.9.3 Test Setup Diagram



Ground Reference Plane

#### 7.9.4 Measurement Procedure and Data

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## 7.10 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

#### Limit:

Frequency band(MHz)	Limit		
5725-5850	≥500 kHz		

### 7.10.1 E.U.T. Operation

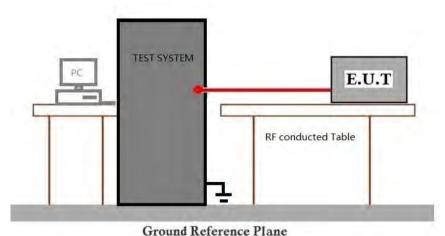
Operating Environment:

Temperature: 24.4 °C Humidity: 33.7 % RH Atmospheric Pressure: 1020 mbar

#### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

## 7.10.3 Test Setup Diagram



#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.11 Peak Power spectrum density

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement

Test Method: KDB 789033 D02 II F

#### Limit:

Frequenc	y band(MHz)	Limit		
E1E0 E	250	≤17dBm in 1MHz for master device		
5150-5	250	≤11dBm in 1MHz for client device		
5250-5	350	≤11dBm in 1MHz for client device		
5470-5	725	≤11dBm in 1MHz for client device		
5725-5850		≤30dBm in 500 kHz		
		power spectral density is measured as a conducted emission ection of a calibrated test instrument to the equipment under		

### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 33.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.11.2 Test Mode Description

7.11.2 Test wide Description						
Pre-scan / Final test	Mode Code	Description				
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.				



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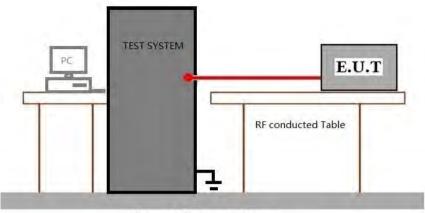
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### 7.11.3 Test Setup Diagram



Ground Reference Plane

### 7.11.4 Measurement Procedure and Data

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## 7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g) Test Method: ANSI C63.10 (2013) Section 6.8

#### 7.12.1 Measurement Procedure and Data

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.



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## 7.13 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

#### Limit:

Test item	Limit	Applicability		
		Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

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.

#### 7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 37.7 % RH Atmospheric Pressure: 1020 mbar



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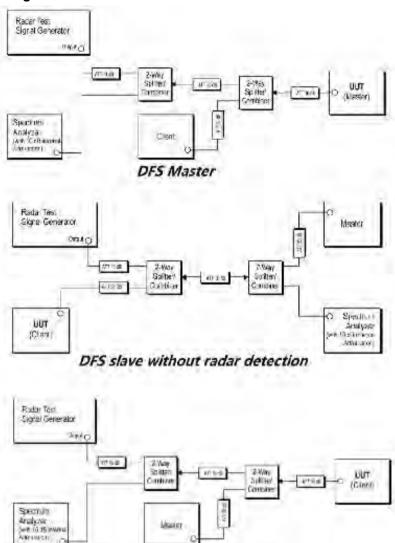


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## 7.13.2 Test Setup Diagram



DFS slave with radar detection



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#### 7.13.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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## 7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

#### Limit:

Test item	Limit	Applicability		
		Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

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.

#### 7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 37.5 % RH Atmospheric Pressure: 1020 mbar



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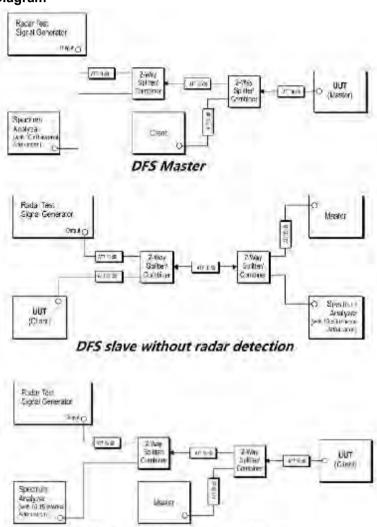
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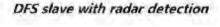
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7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

### 7.14.3 Test Setup Diagram







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#### 7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin. S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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#### **Test Setup Photo** 8

Please refer to SZCR2410003959 Appendix\_Setup Photo

#### **EUT Constructional Details (EUT Photos)** 9

Refer to Appendix - External and Internal Photos for SZCR2410003959WM



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# 10 Appendix

1. Duty Cycle

1.1 Test Result

### 1.1.1 Ant8

				Aı	nt8		
Mada	TX	Frequency	T on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		5180	2.065	2.101	98.29	0.08	0.00
		5200	2.066	2.101	98.33	0.07	0.00
		5240	2.066	2.101	98.33	0.07	0.00
		5260	2.066	2.101	98.33	0.07	0.00
802.11a	SISO	5300	2.067	2.101	98.38	0.07	0.00
		5320	2.066	2.101	98.33	0.07	0.00
		5500	2.066	2.101	98.33	0.07	0.03
		5580	2.066	2.101	98.33	0.07	0.03
		5700	2.066	2.101	98.33	0.07	0.00
		5180	1.926	1.961	98.22	0.08	0.03
		5200	1.926	1.961	98.22	0.08	0.03
		5240	1.926	1.962	98.17	0.08	0.03
000 44		5260	1.926	1.961	98.22	0.08	0.03
802.11n	SISO	5300	1.926	1.961	98.22	0.08	0.03
(HT20)		5320	1.926	1.962	98.17	0.08	0.03
		5500	1.926	1.962	98.17	0.08	0.03
		5580	1.926	1.961	98.22	0.08	0.03
		5700	1.926	1.961	98.22	0.08	0.03
	SISO	5190	0.950	0.984	96.54	0.15	0.00
		5230	0.950	0.984	96.54	0.15	0.03
000 44		5270	0.949	0.984	96.44	0.16	0.03
802.11n		5310	0.949	0.984	96.44	0.16	0.00
(HT40)		5510	0.949	0.984	96.44	0.16	0.03
		5550	0.950	0.984	96.54	0.15	0.03
		5670	0.949	0.984	96.44	0.16	0.03
		5180	1.934	1.969	98.22	0.08	0.03
		5200	1.933	1.969	98.17	0.08	0.03
		5240	1.934	1.970	98.17	0.08	0.03
000.44		5260	1.934	1.970	98.17	0.08	0.03
802.11ac	SISO	5300	1.933	1.968	98.22	0.08	0.03
(VHT20)		5320	1.934	1.970	98.17	0.08	0.03
		5500	1.934	1.970	98.17	0.08	0.03
		5580	1.934	1.969	98.22	0.08	0.03
		5700	1.934	1.970	98.17	0.08	0.03
		5190	0.953	0.988	96.46	0.16	0.03
000 44-		5230	0.953	0.988	96.46	0.16	0.03
802.11ac	SISO	5270	0.953	0.988	96.46	0.16	0.00
(VHT40)		5310	0.953	0.988	96.46	0.16	0.03
		5510	0.954	0.988	96.56	0.15	0.00



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						-	
		5550	0.953	0.988	96.46	0.16	0.00
		5670	0.953	0.988	96.46	0.16	0.03
802.11ac (VHT80)	SISO	5210	0.465	0.500	93.00	0.32	0.03
		5290	0.466	0.500	93.20	0.31	0.03
		5530	0.466	0.500	93.20	0.31	0.04
		5610	0.465	0.500	93.00	0.32	0.03

Ant8							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5745	2.066	2.101	98.33	0.07	0.00
802.11a	SISO	5785	2.066	2.101	98.33	0.07	0.00
		5825	2.067	2.102	98.33	0.07	0.03
000 44.	SISO	5745	1.926	1.962	98.17	0.08	0.03
802.11n (HT20)		5785	1.926	1.961	98.22	0.08	0.03
(11120)		5825	1.926	1.962	98.17	0.08	0.10
802.11n	SISO	5755	0.949	0.984	96.44	0.16	0.00
(HT40)		5795	0.950	0.984	96.54	0.15	0.03
	SISO	5745	1.934	1.969	98.22	0.08	0.03
802.11ac (VHT20)		5785	1.934	1.970	98.17	0.08	0.03
( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (		5825	1.934	1.969	98.22	0.08	0.03
802.11ac (VHT40)	SISO	5755	0.953	0.988	96.46	0.16	0.03
		5795	0.954	0.988	96.56	0.15	0.00
802.11ac (VHT80)	SISO	5775	0.465	0.500	93.00	0.32	0.03



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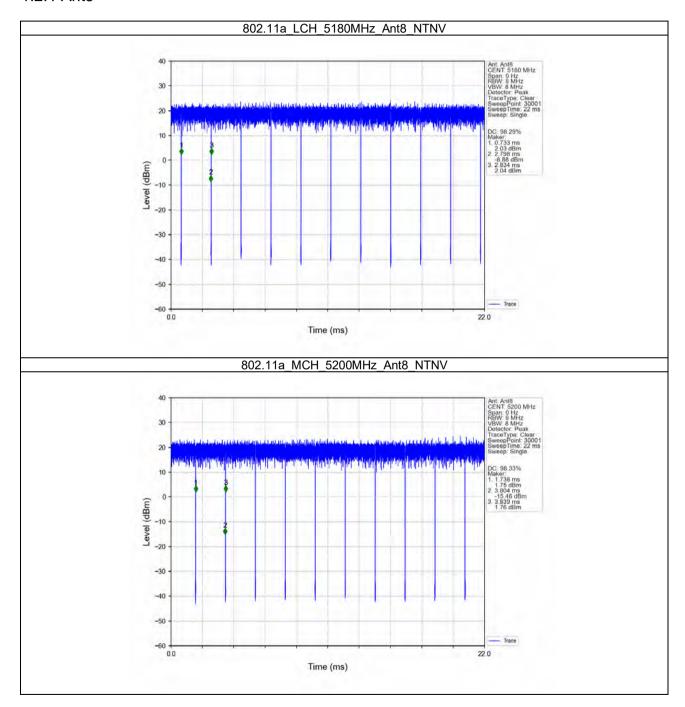
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#### 1.2 Test Graph

#### 1.2.1 Ant8





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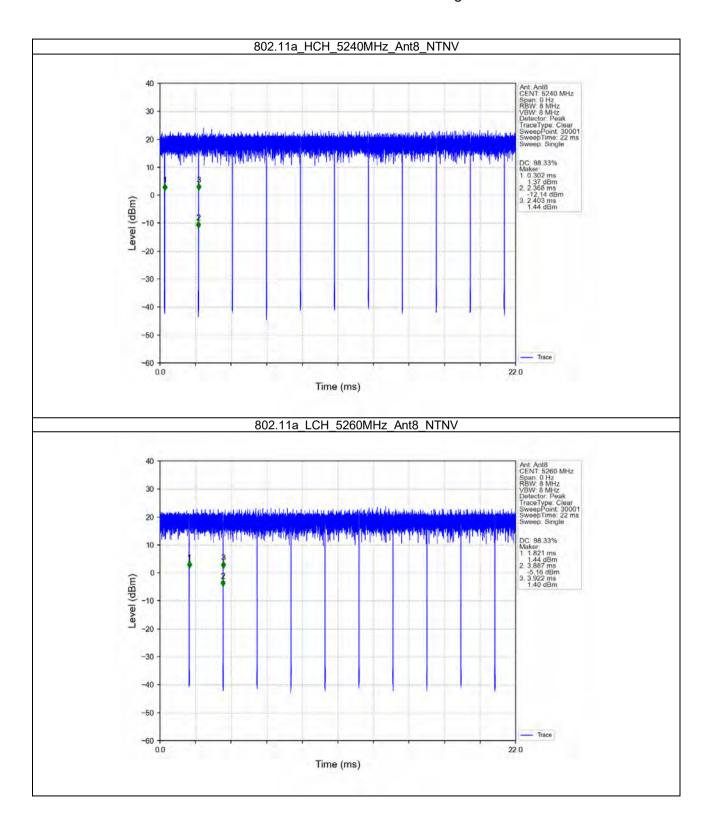
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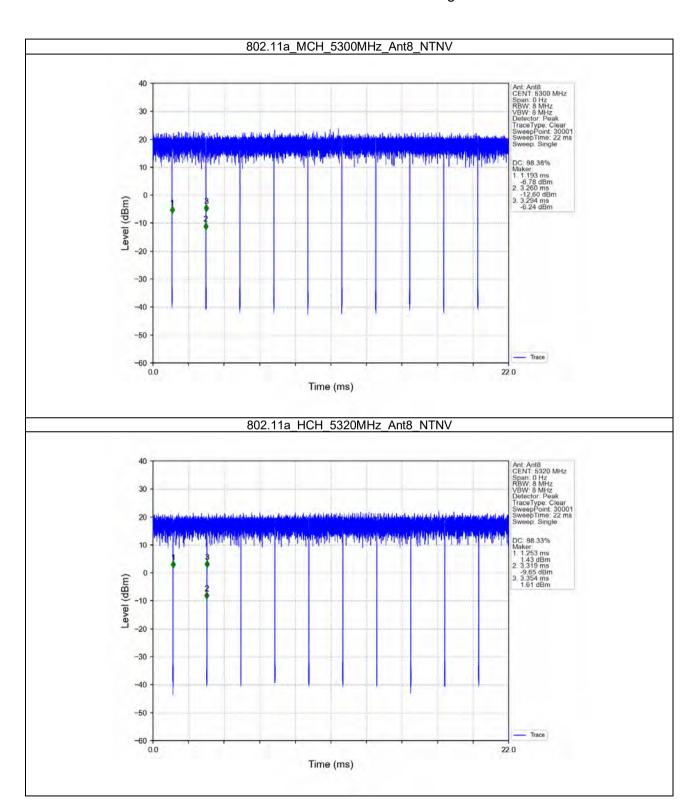
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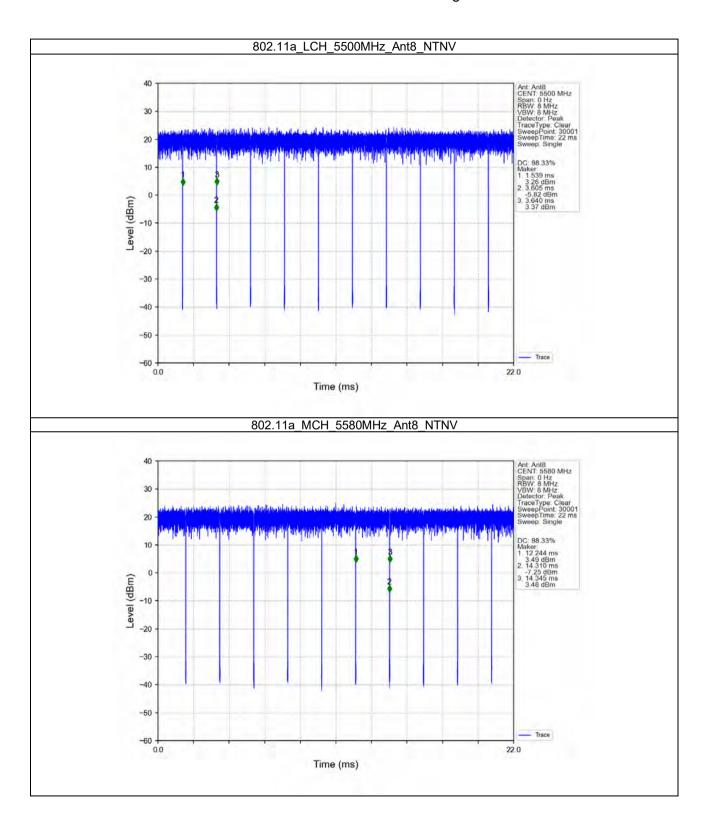
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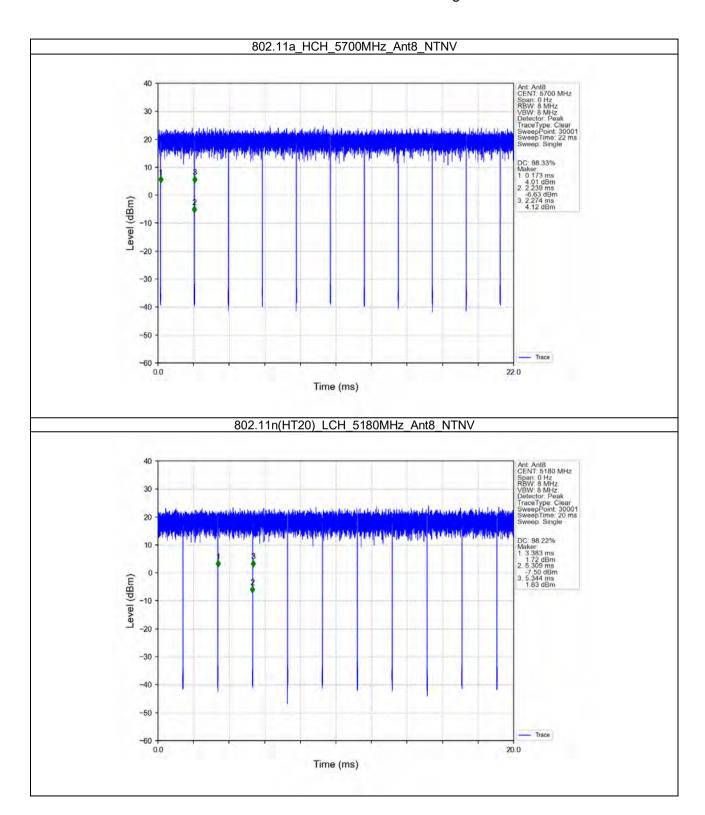
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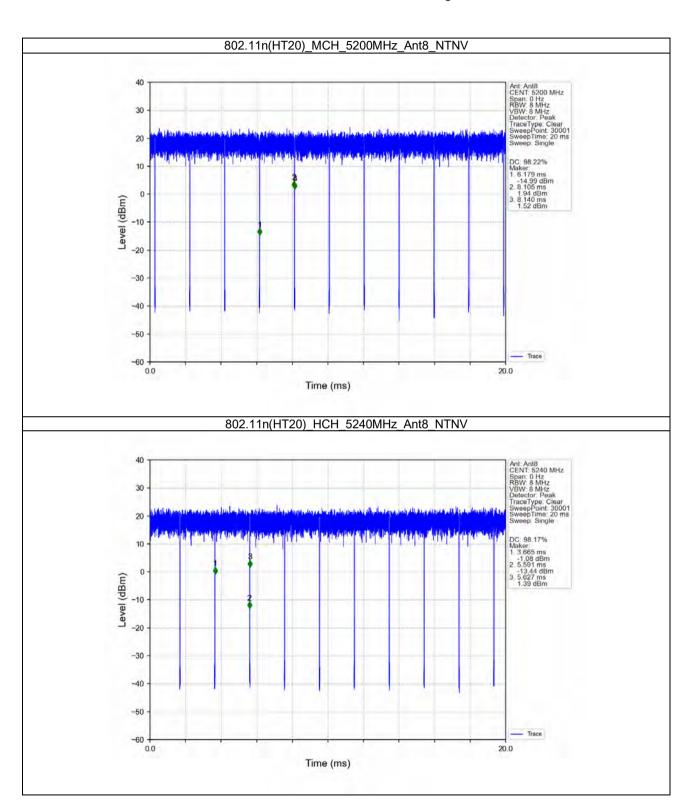
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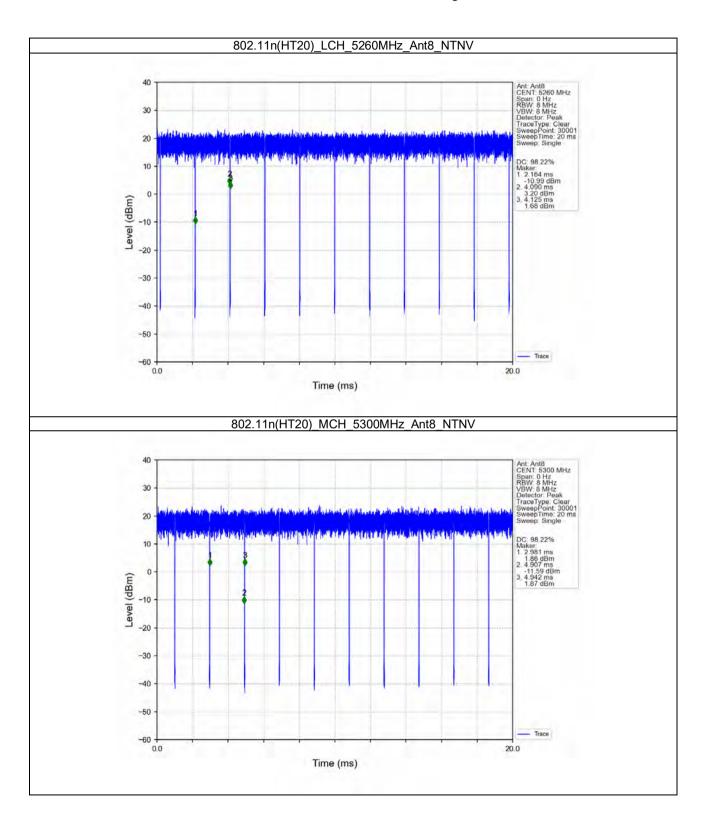
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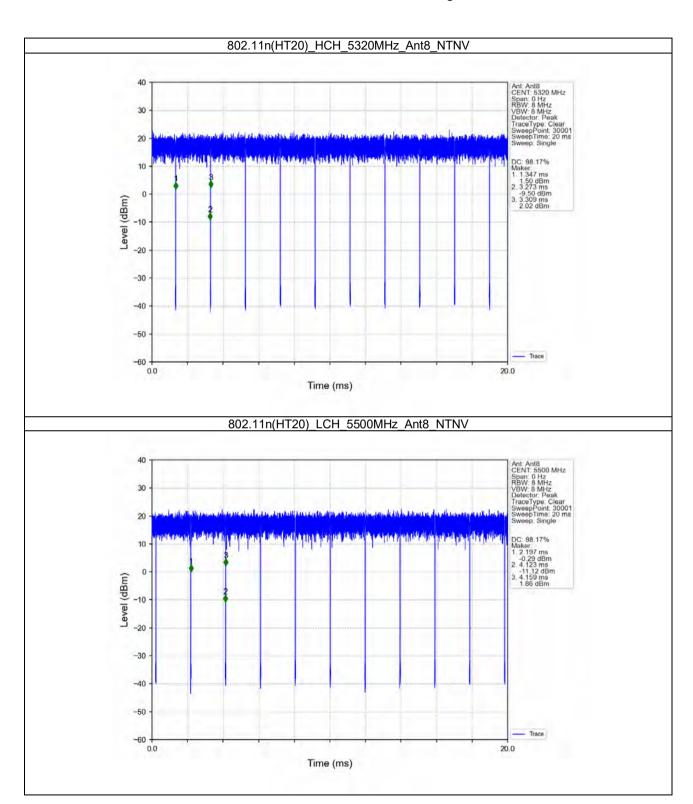
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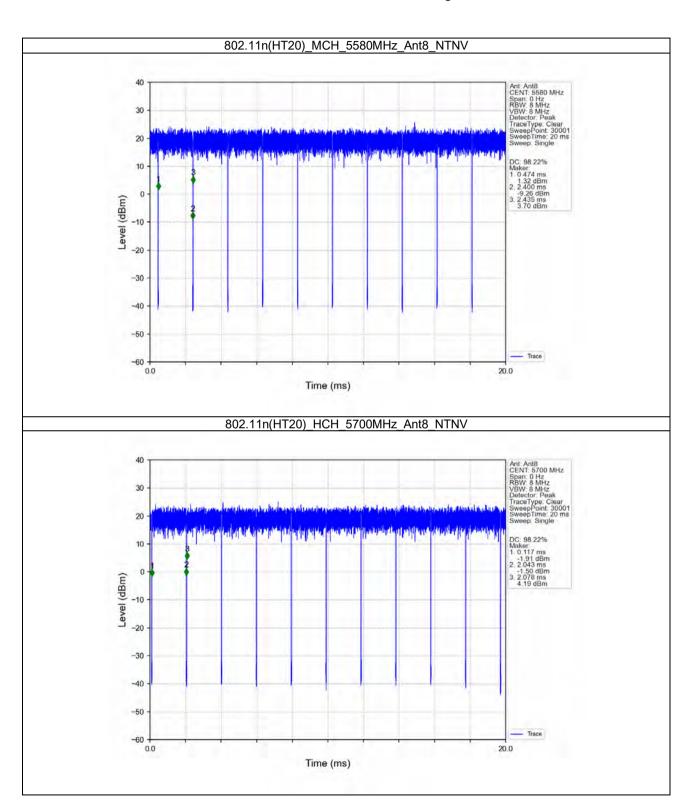
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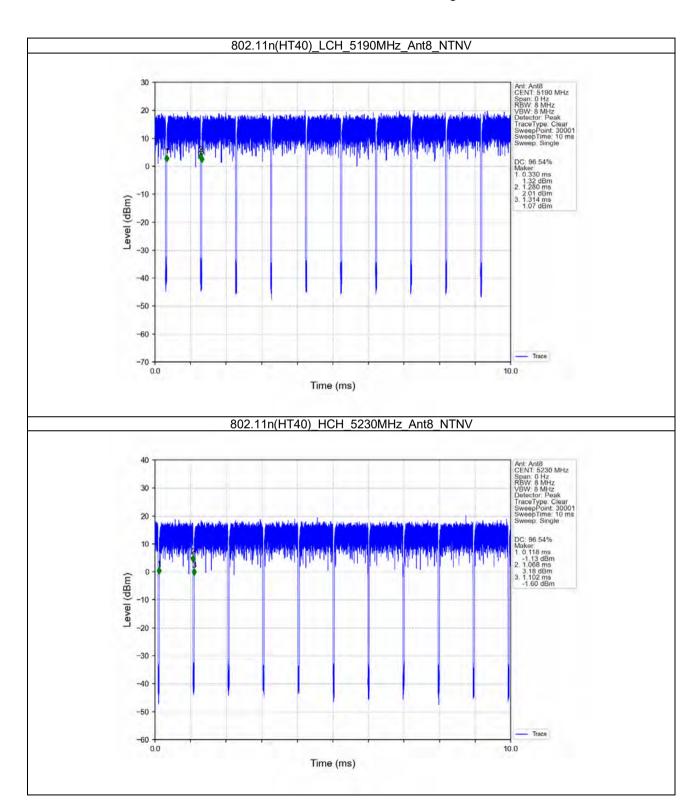
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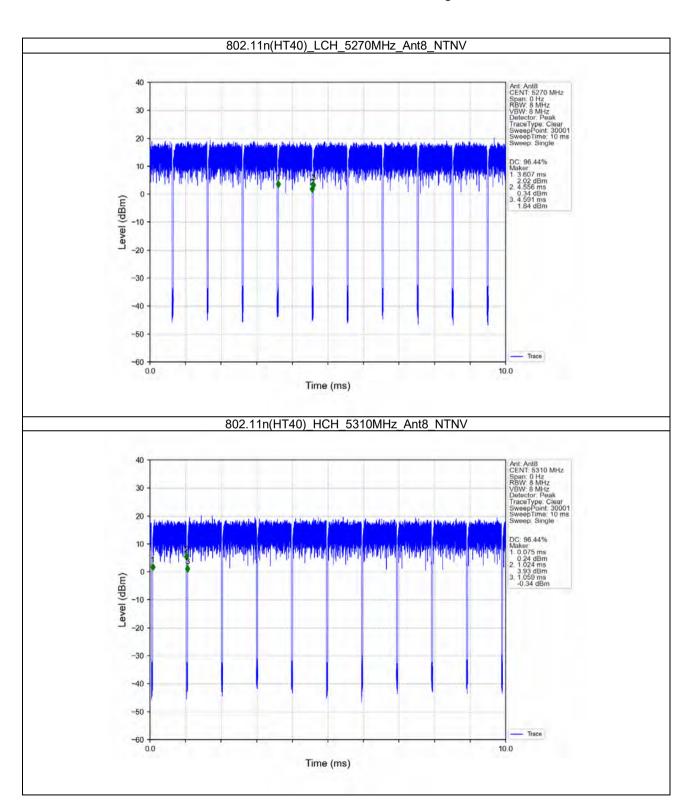
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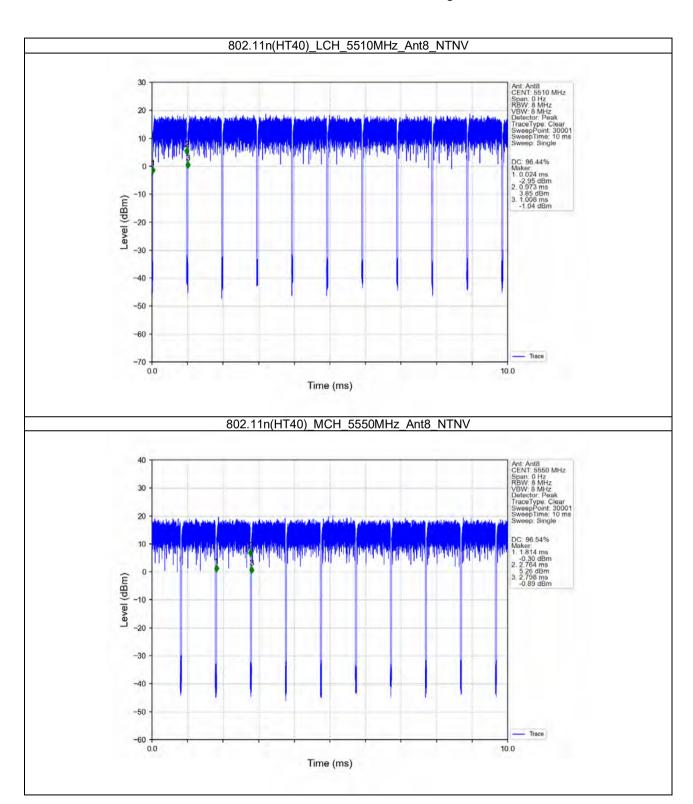
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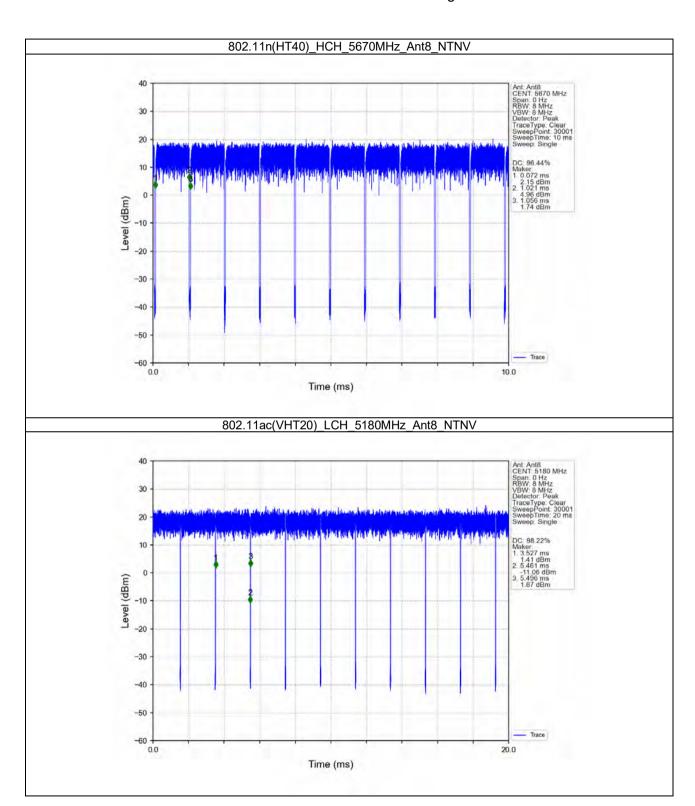
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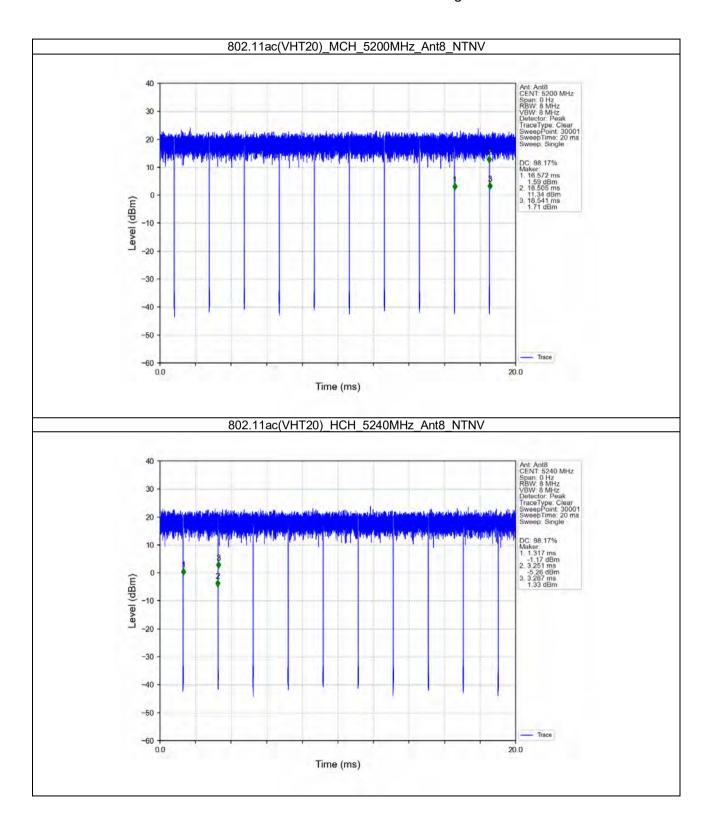
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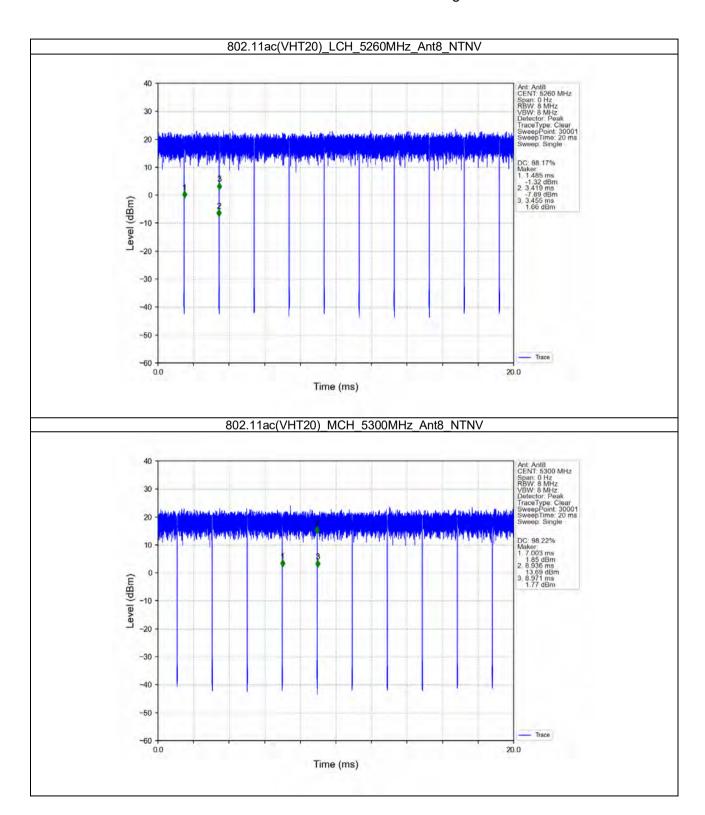
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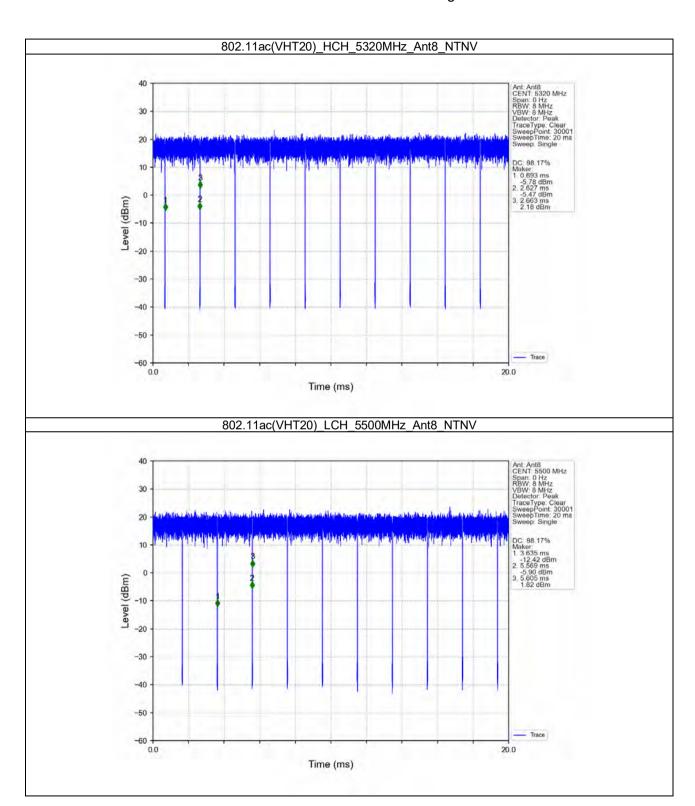
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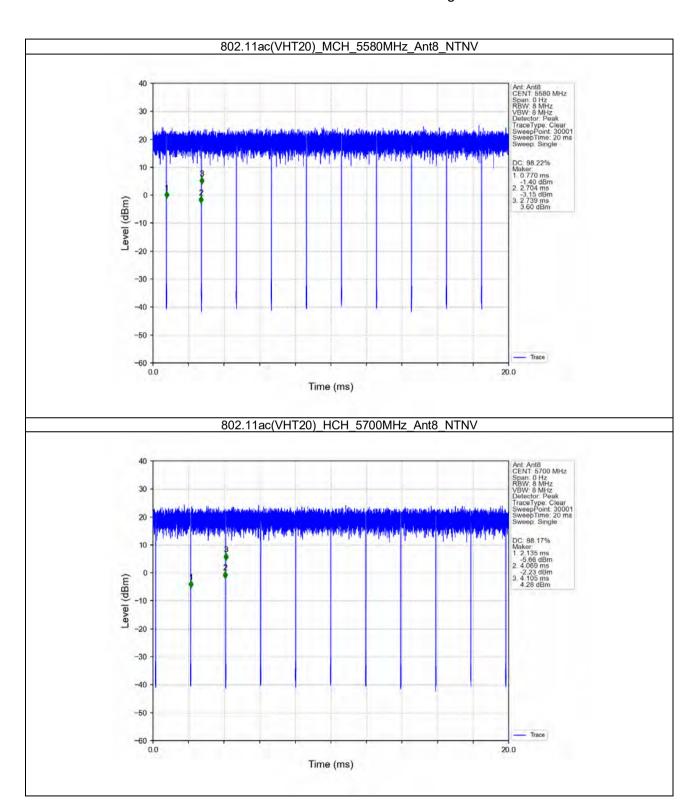
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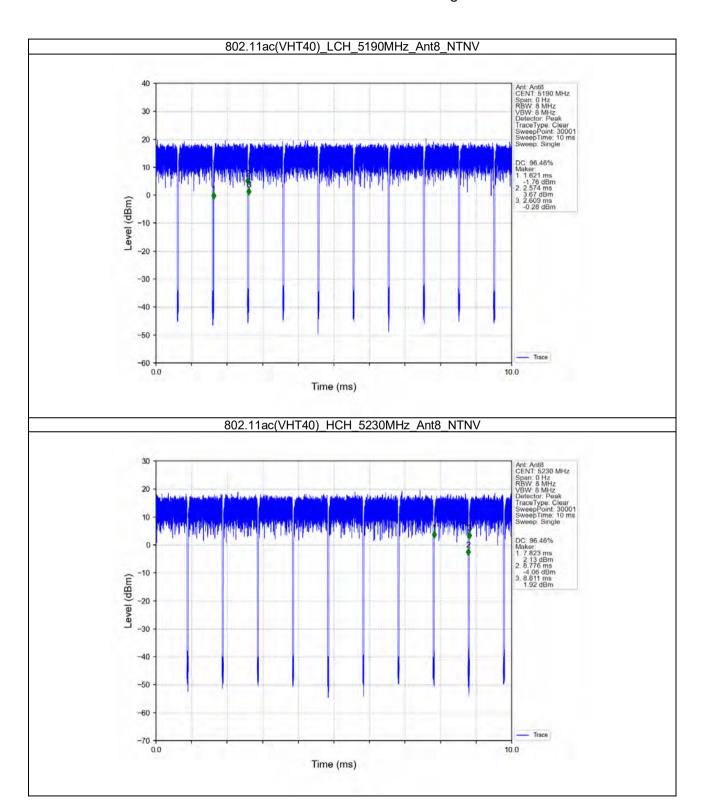
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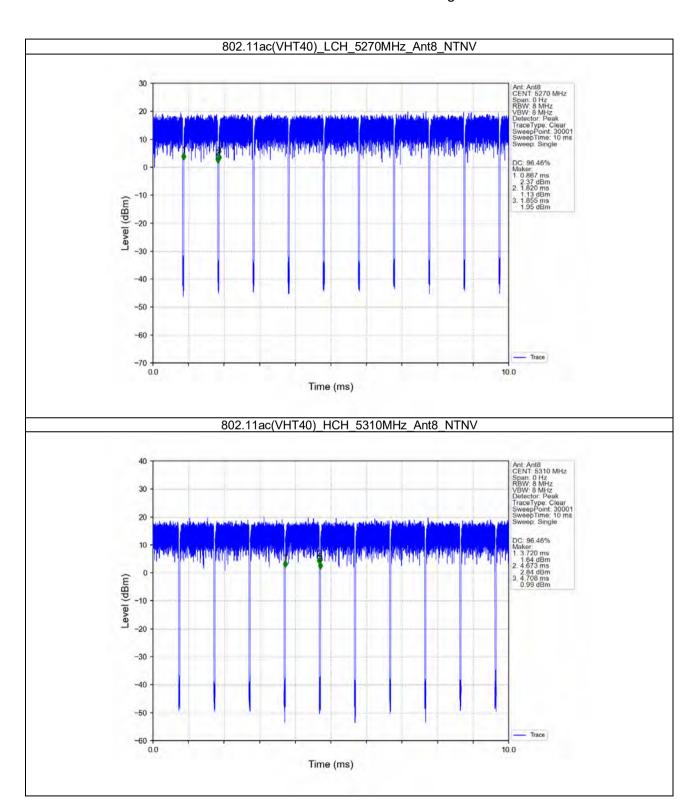
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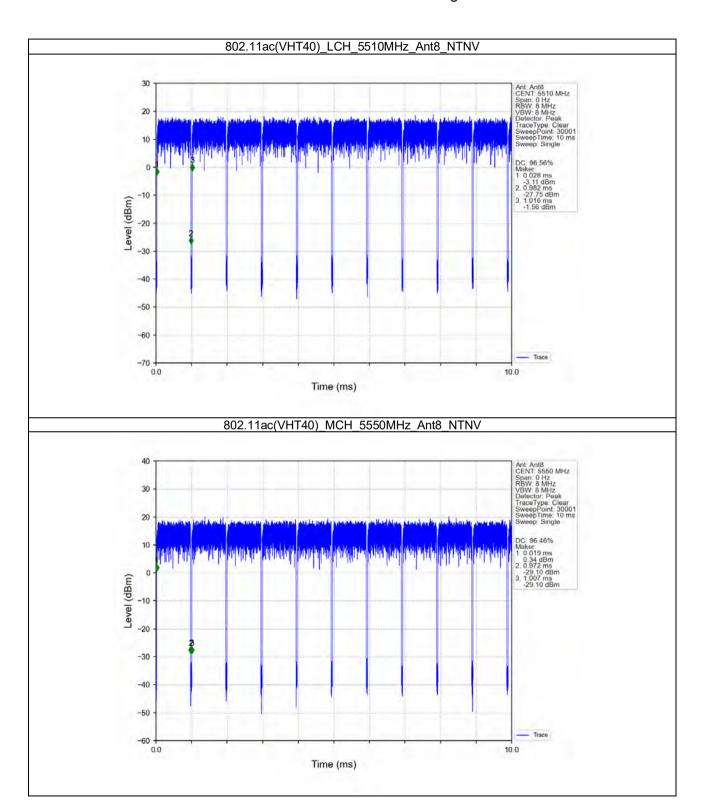
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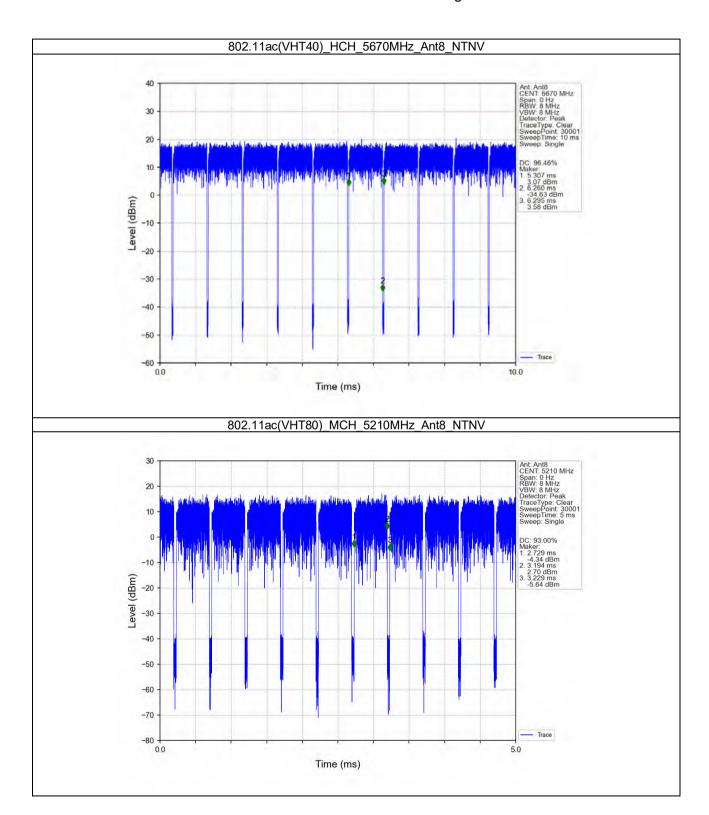
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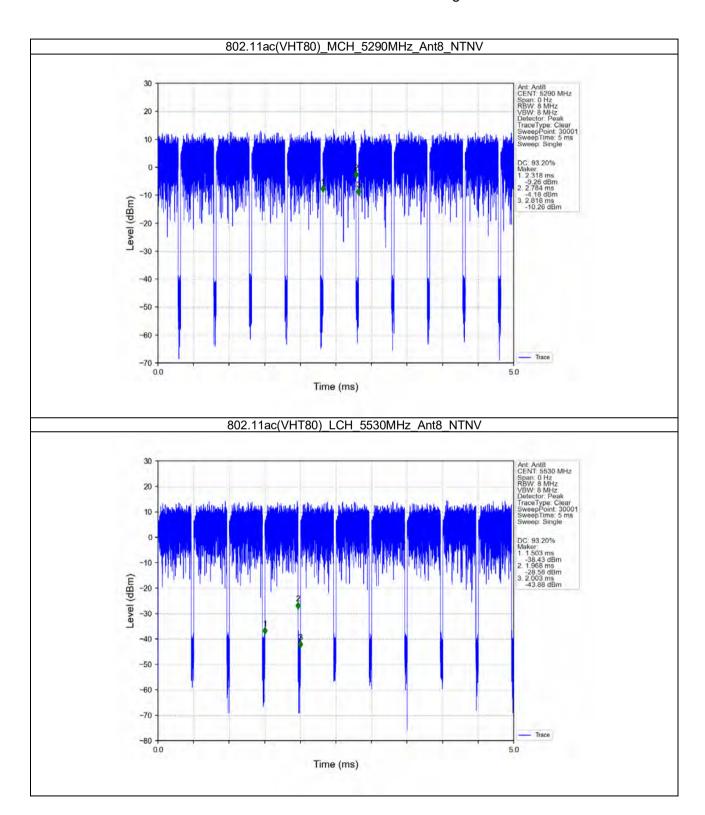
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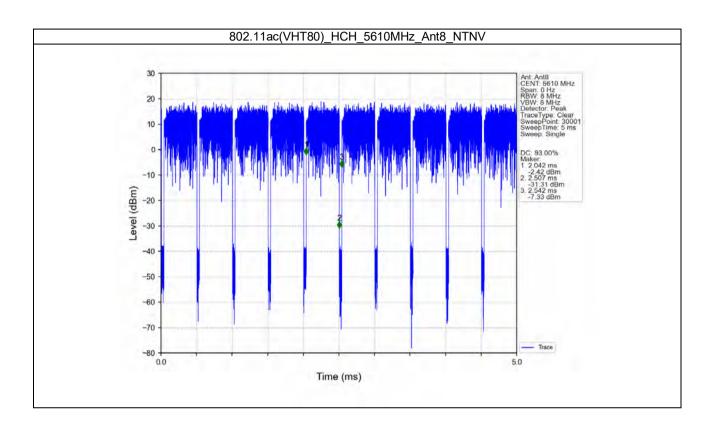
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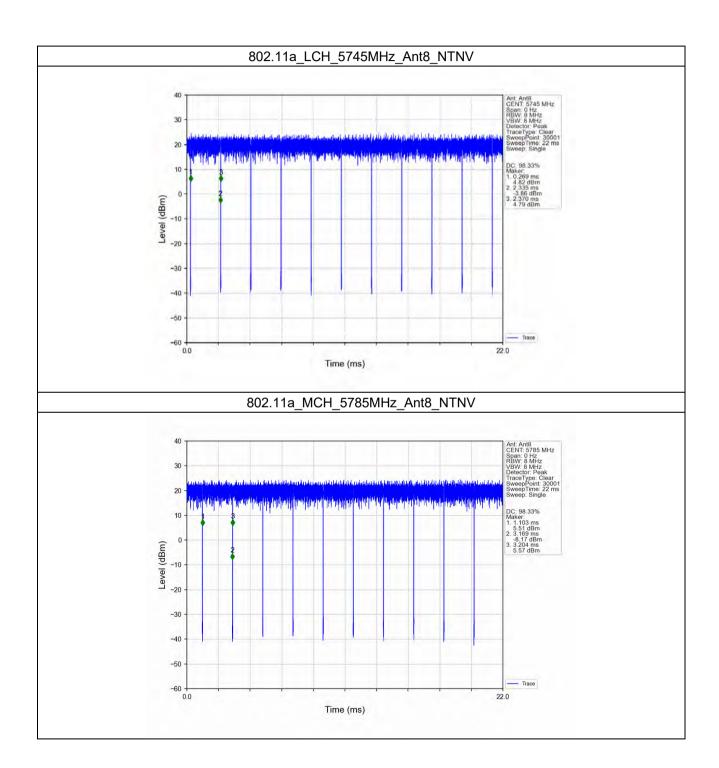
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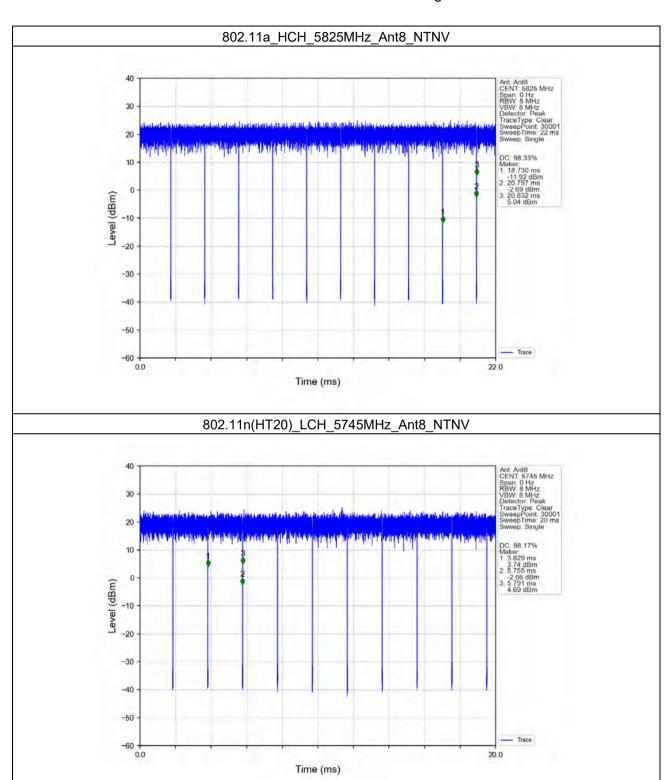
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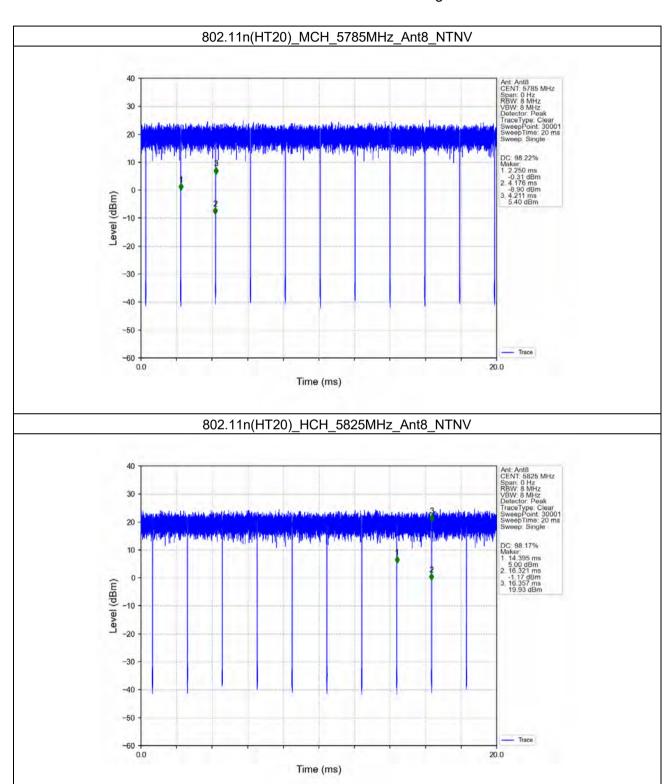
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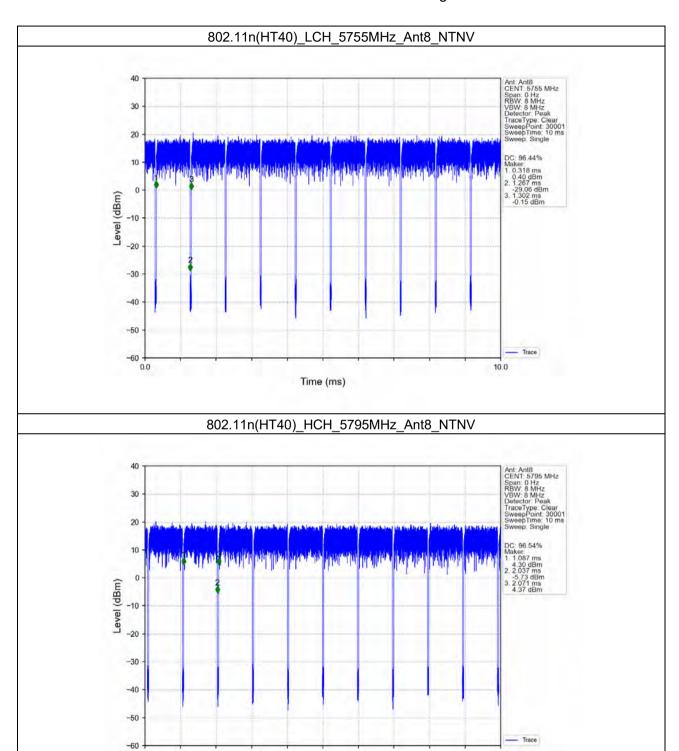
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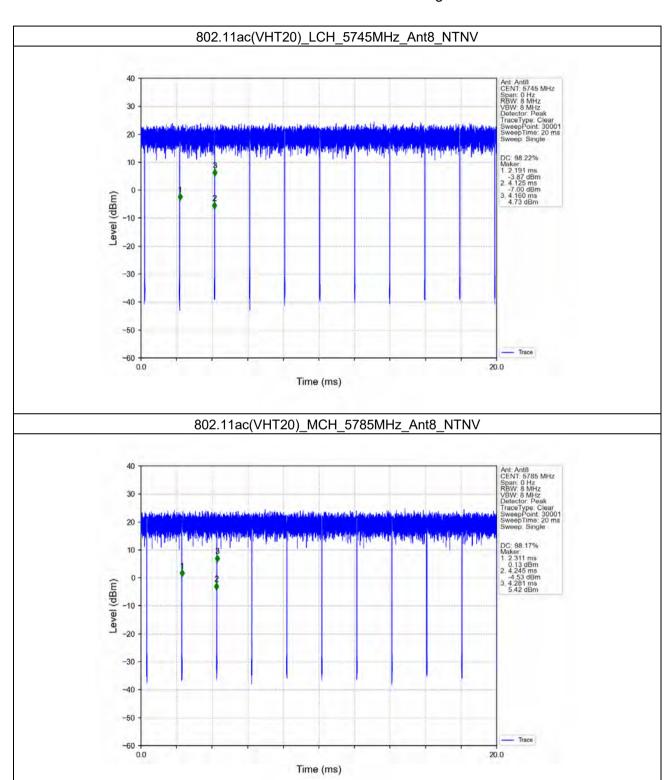
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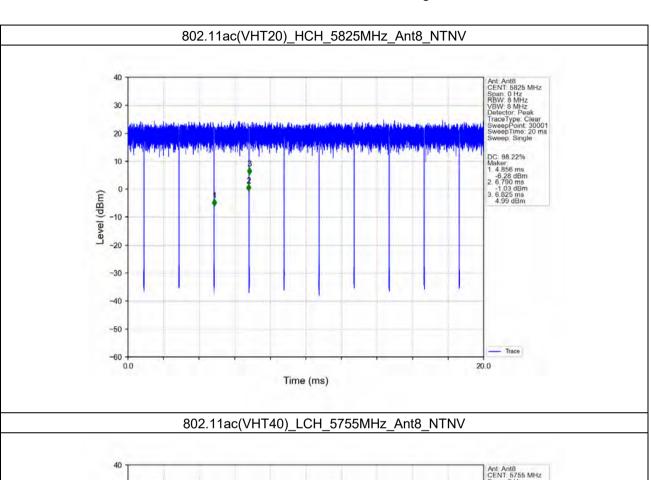
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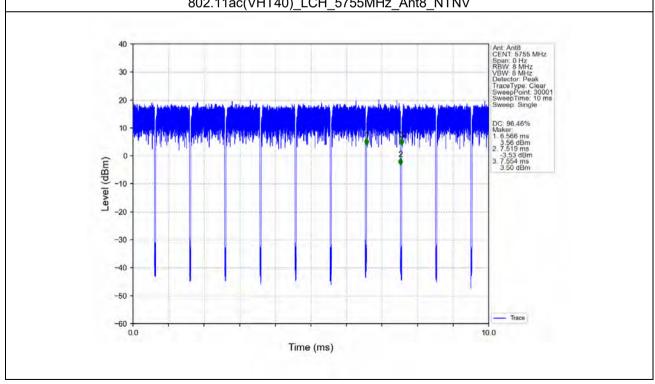


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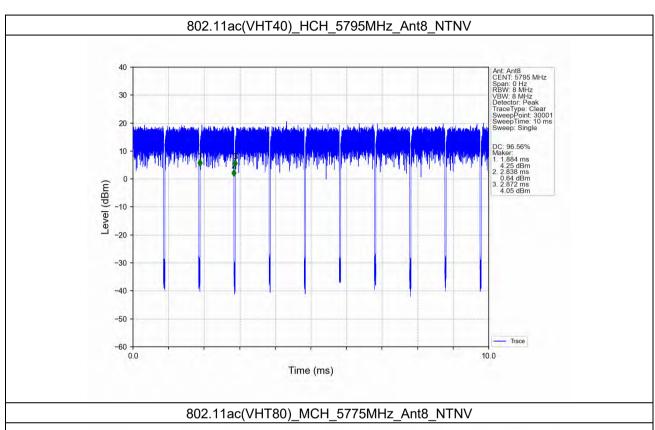
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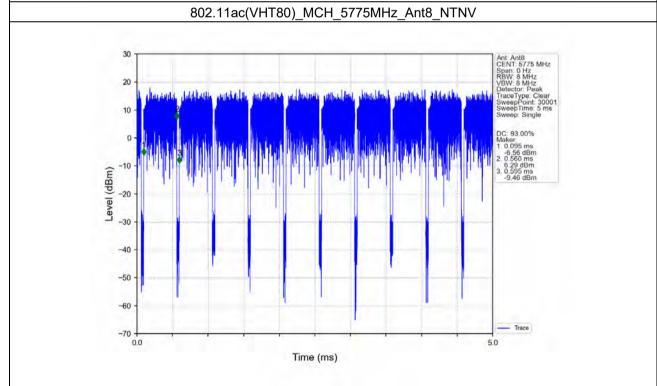


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#### 2. Bandwidth

#### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT -	99% Occupied Bandwidth (MHz)		Vordict
				Result	Limit	Verdict
	71	5180	8	17.158	1	Pass
		5200	8	17.164	1	Pass
		5240	8	17.149	1	Pass
		5260	8	17.199	1	Pass
802.11a	SISO	5300	8	17.212	1	Pass
		5320	8	17.171	1	Pass
		5500	8	17.151	1	Pass
		5580	8	17.205	/	Pass
		5700	8	17.154	/	Pass
		5180	8	18.368	/	Pass
		5200	8	18.334	1	Pass
		5240	8	18.364	1	Pass
		5260	8	18.368	1	Pass
802.11n	SISO	5300	8	18.348	1	Pass
(HT20)		5320	8	18.358	1	Pass
		5500	8	18.325	1	Pass
		5580	8	18.336	1	Pass
		5700	8	18.380	1	Pass
		5190	8	36.715	1	Pass
		5230	8	36.774	1	Pass
	SISO	5270	8	36.641	<del>'</del>	Pass
802.11n		5310	8	36.726	<del>'</del> 1	Pass
(HT40)		5510	8	36.712	<del>'</del> 1	Pass
		5550	8	36.658	1	Pass
		5670	8	36.622		Pass
		5180	8	18.394		Pass
		5200	8	18.370		Pass
	SISO	5240	8	18.346		Pass
		5260	8	18.295		Pass
802.11ac		5300	8	18.343		Pass
(VHT20)		5320	8	18.349		Pass
		5500	8	18.389		Pass
		5580	8	18.302		Pass
		5700	8	18.346		Pass
	SISO	5190	8	36.567	<u>'</u>	Pass
		5230	8	36.613		Pass
		5270	8	36.553	<u>'</u>	Pass
802.11ac		5310	8	36.571		Pass
(VHT40)		5510	8	36.592	1	Pass
		5550	8	36.608	1	Pass
		5670	8	36.532	1	Pass
	-	5210	8	75.881	1	Pass
802.11ac		5290	8	76.092		Pass
	SISO	5530	8	75.964		Pass
(VHT80)		5610	8	75.904		Pass



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Mada	TX	Frequency	· ANI	99% Occupied Bandwidth (MHz)		Vandiat
Mode	Type	(MHz)		Result	Limit	Verdict
		5745	8	17.185	1	Pass
802.11a	SISO	5785	8	17.178	1	Pass
		5825	8	17.140	1	Pass
	SISO	5745	8	18.365	1	Pass
802.11n (HT20)		5785	8	18.346	1	Pass
(11120)		5825	8	18.337	1	Pass
802.11n	SISO	5755	8	36.686	1	Pass
(HT40)		5795	8	36.650	1	Pass
	SISO	5745	8	18.386	1	Pass
802.11ac (VHT20)		5785	8	18.406	1	Pass
(11120)		5825	8	18.344	1	Pass
802.11ac (VHT40)	SISO	5755	8	36.606	1	Pass
		5795	8	36.551	1	Pass
802.11ac (VHT80)	SISO	5775	8	75.928	1	Pass



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#### 2.1.2 6dB BW

	TX	Frequency (MHz) ANT	ANIT	26dB Bandwidth (MHz)		\/o==1:=4
Mode	Type		ANI	Result	Limit	Verdict
		5180	8	22.155	1	Pass
		5200	8	21.514	/	Pass
		5240	8	21.669	/	Pass
		5260	8	21.963	1	Pass
802.11a	SISO	5300	8	21.605	/	Pass
		5320	8	21.123	1	Pass
		5500	8	22.167	1	Pass
		5580	8	21.159	1	Pass
		5700	8	21.686	1	Pass
		5180	8	22.327	1	Pass
		5200	8	22.005	1	Pass
		5240	8	22.075	1	Pass
000.44		5260	8	21.928	1	Pass
802.11n (HT20)	SISO	5300	8	22.218	1	Pass
(11120)		5320	8	22.396	1	Pass
		5500	8	22.285	1	Pass
		5580	8	22.068	1	Pass
		5700	8	21.852	1	Pass
	SISO	5190	8	41.584	1	Pass
		5230	8	41.879	1	Pass
000.44		5270	8	41.098	1	Pass
802.11n (HT40)		5310	8	41.476	1	Pass
(11140)		5510	8	41.355	1	Pass
		5550	8	41.183	1	Pass
		5670	8	41.168	1	Pass
	SISO	5180	8	23.160	1	Pass
		5200	8	22.462	1	Pass
		5240	8	22.128	1	Pass
000 11		5260	8	21.879	1	Pass
802.11ac (VHT20)		5300	8	22.016	1	Pass
( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (		5320	8	22.436	1	Pass
		5500	8	21.918	1	Pass
		5580	8	22.391	1	Pass
		5700	8	22.761	1	Pass
802.11ac	SISO	5190	8	41.512	1	Pass



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(VHT40)		5230	8	40.985	/	Pass
		5270	8	41.461	/	Pass
		5310	8	41.603	/	Pass
		5510	8	41.112	/	Pass
		5550	8	41.087	/	Pass
		5670	8	41.396	1	Pass
	SISO	5210	8	82.969	1	Pass
802.11ac		5290	8	83.427	1	Pass
(VHT80)		5530	8	84.013	/	Pass
		5610	8	83.283	1	Pass

Mada	TX Type	Frequency (MHz) ANT	ANIT	6dB Bandwidth (MHz)		Verdict
Mode			Result	Limit		
	SISO	5745	8	14.467	>=0.5	Pass
802.11a		5785	8	15.135	>=0.5	Pass
		5825	8	15.144	>=0.5	Pass
000.44	SISO	5745	8	15.504	>=0.5	Pass
802.11n (HT20)		5785	8	16.056	>=0.5	Pass
(11120)		5825	8	15.194	>=0.5	Pass
802.11n	SISO	5755	8	35.207	>=0.5	Pass
(HT40)		5795	8	35.204	>=0.5	Pass
222.44	SISO	5745	8	15.503	>=0.5	Pass
802.11ac (VHT20)		5785	8	15.134	>=0.5	Pass
(11120)		5825	8	15.405	>=0.5	Pass
802.11ac	SISO	5755	8	35.372	>=0.5	Pass
(VHT40)		5795	8	35.164	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	8	75.182	>=0.5	Pass



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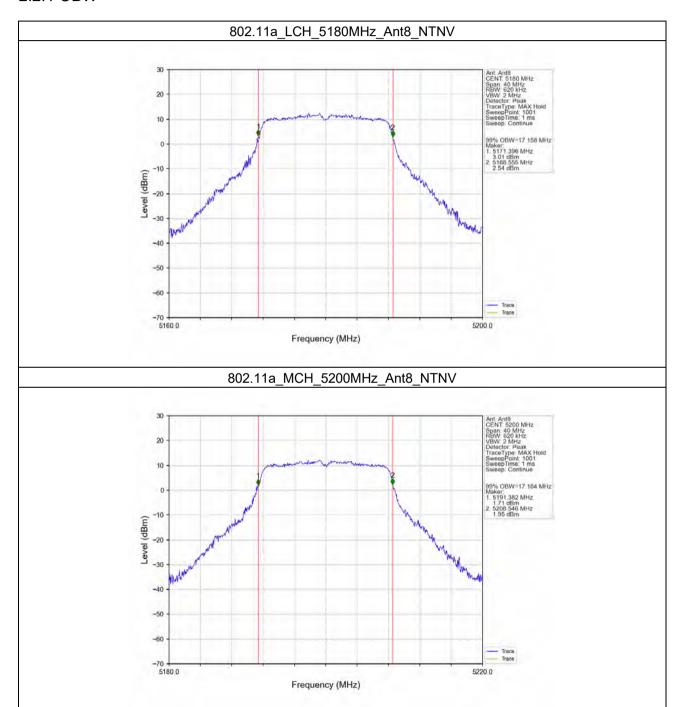
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#### 2.2 Test Graph

#### 2.2.1 OBW





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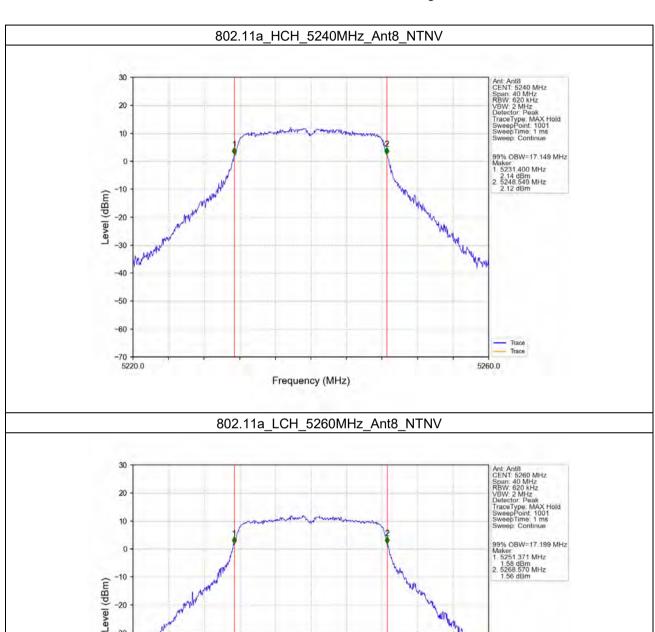
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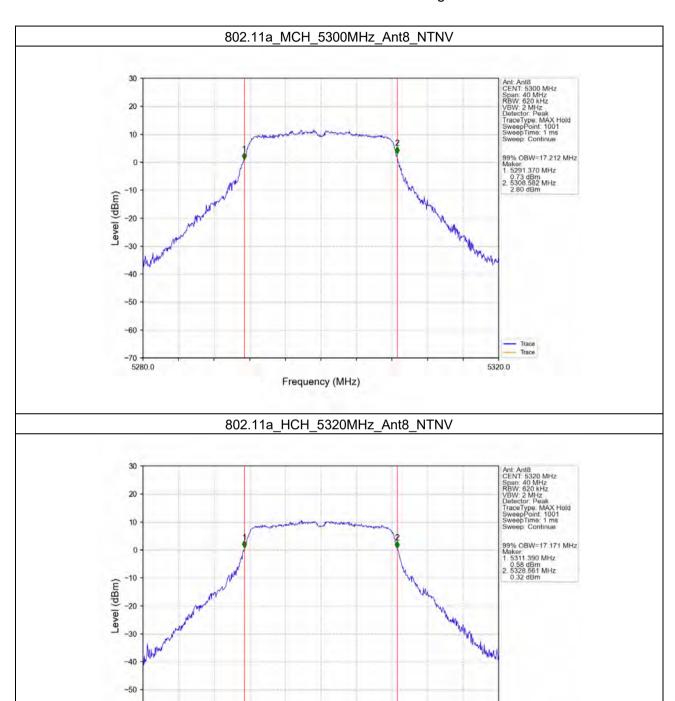
Frequency (MHz)



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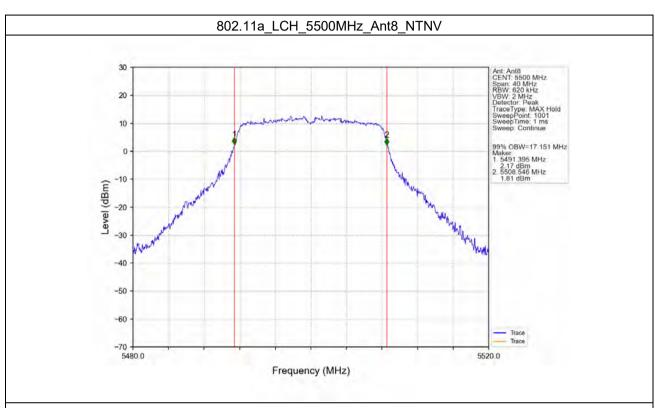
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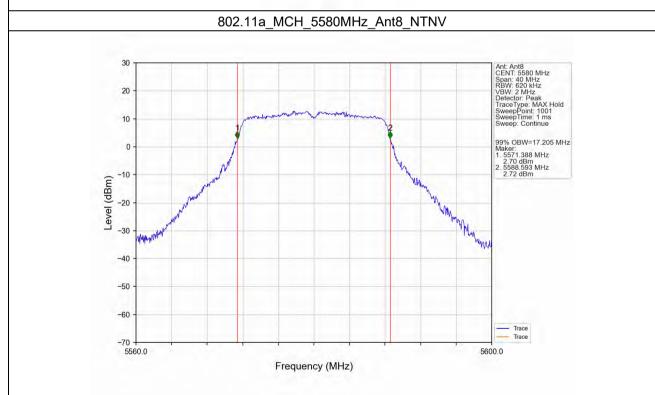


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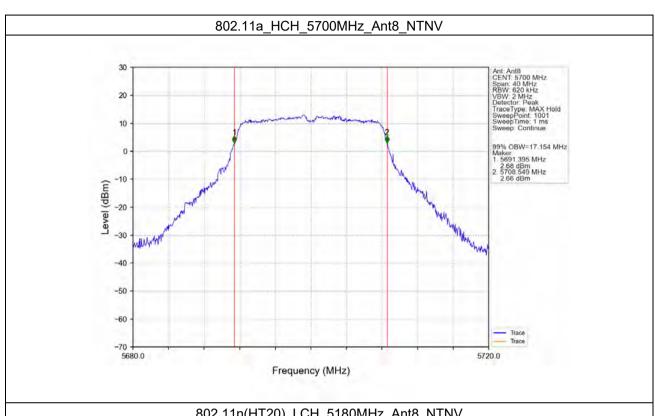
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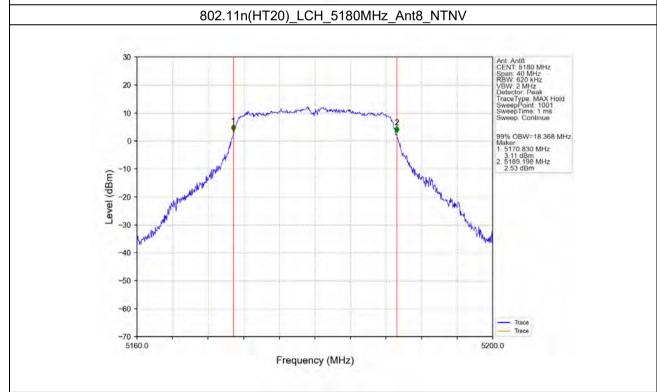


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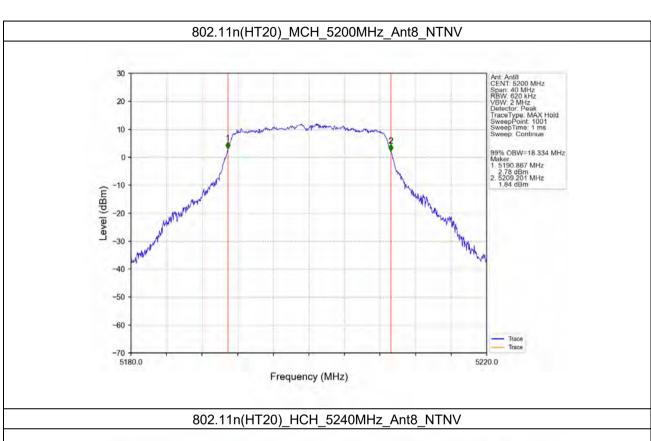
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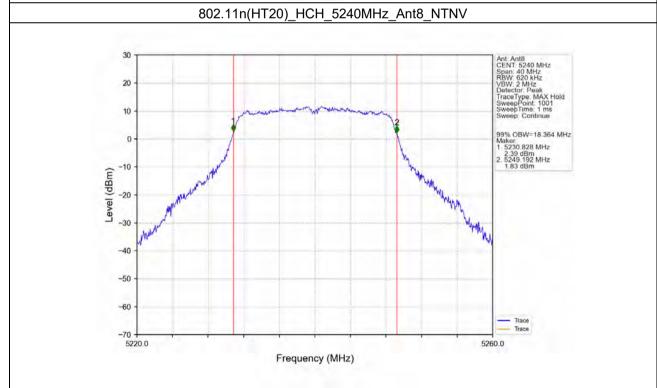


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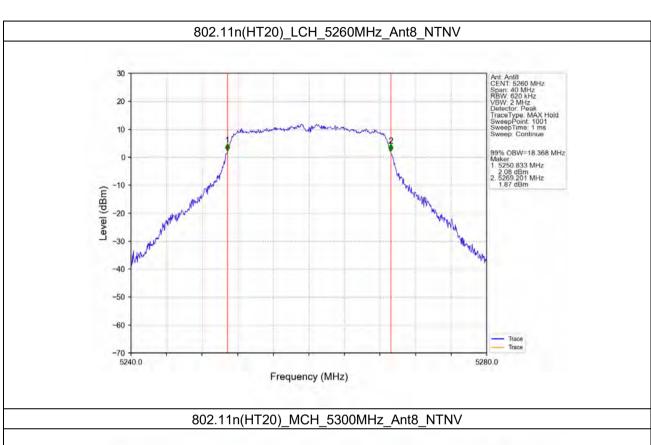
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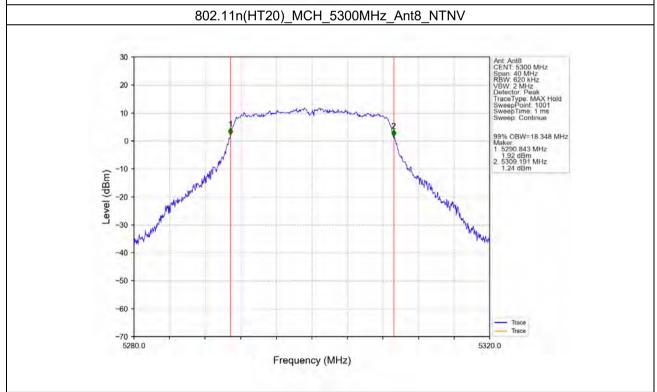


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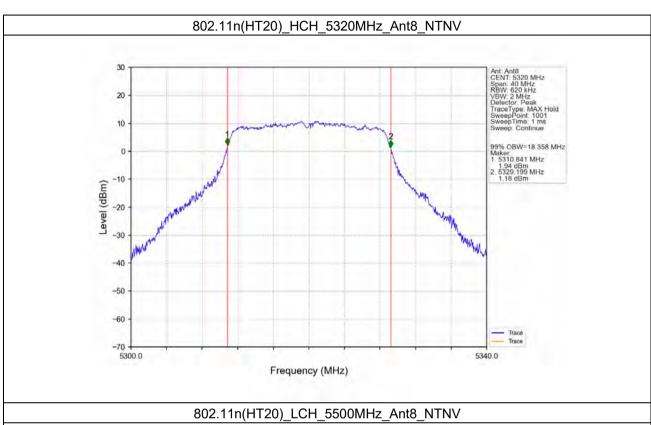
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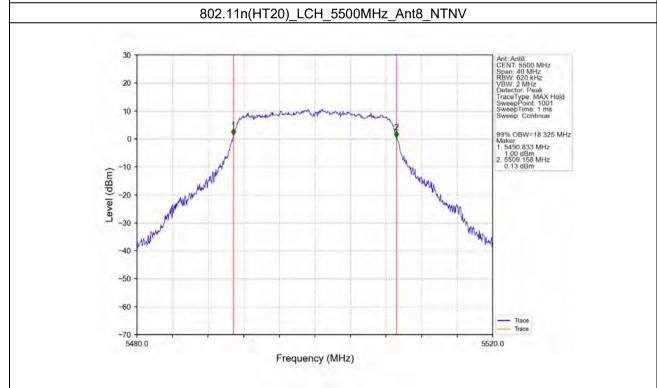


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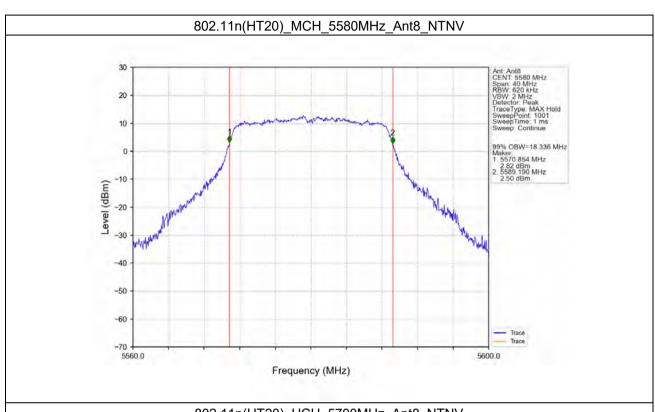
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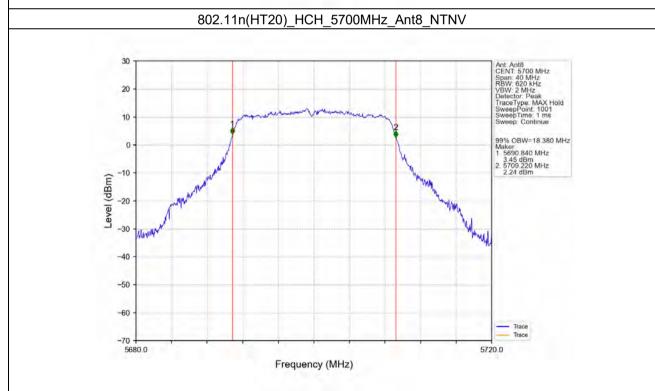


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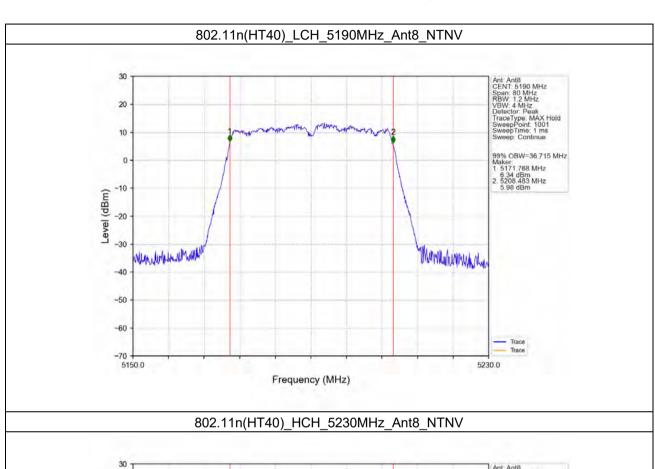
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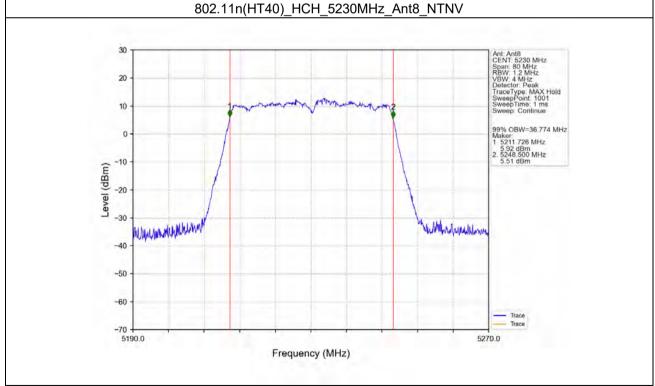


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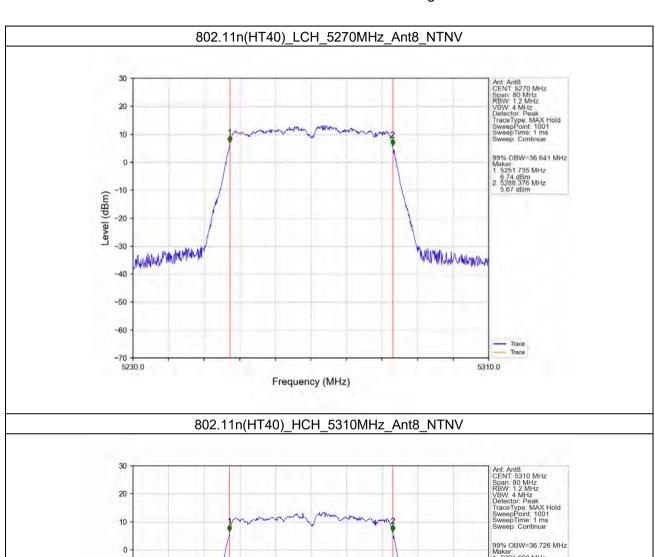
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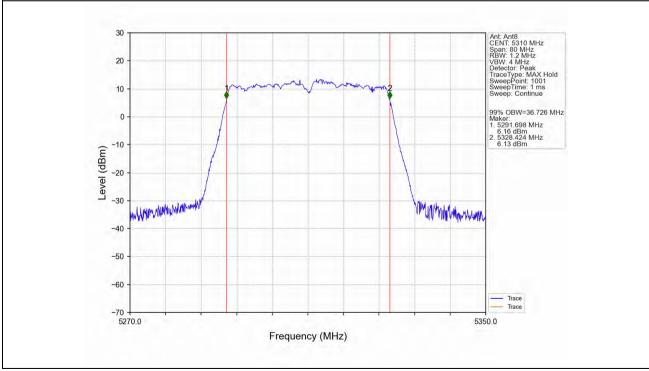


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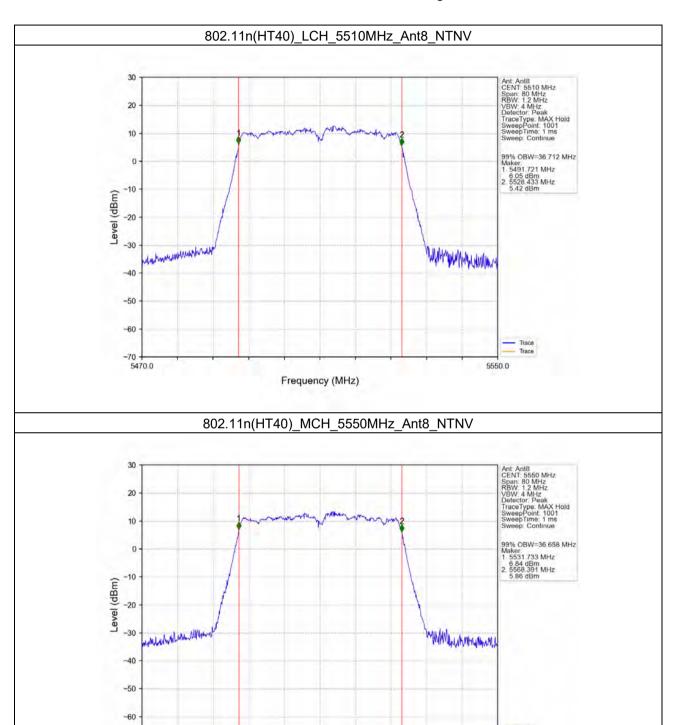
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Frequency (MHz)

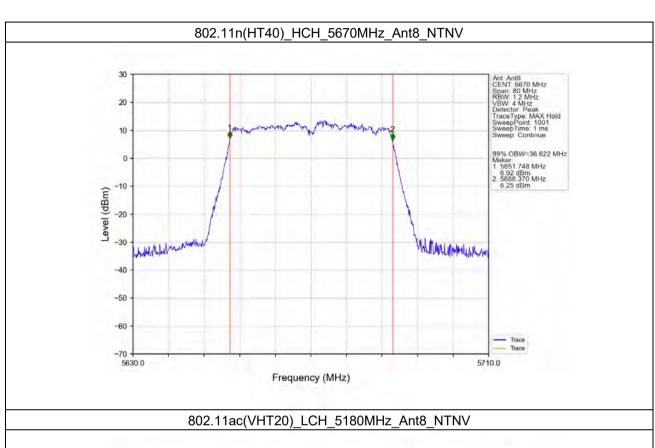
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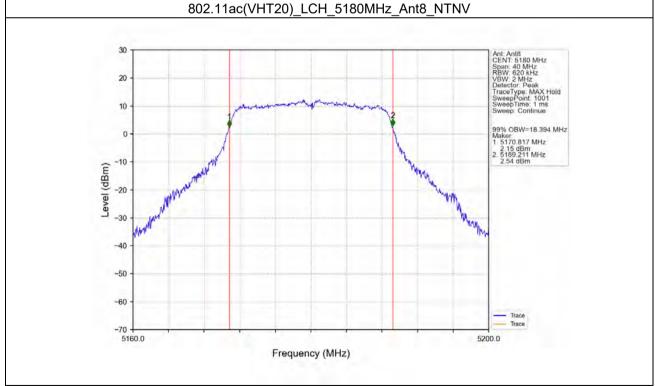


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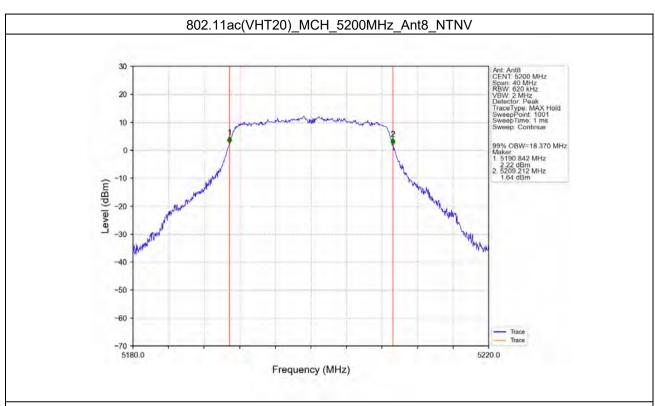
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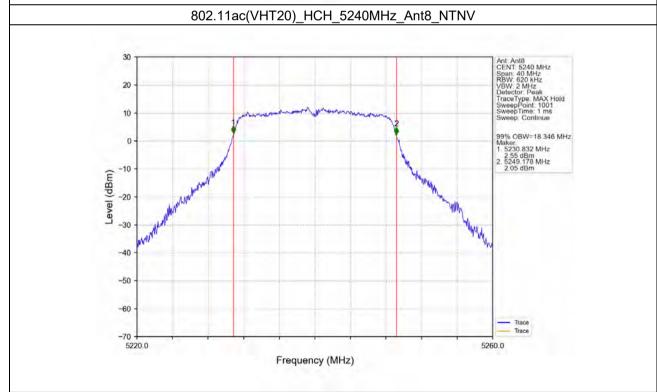


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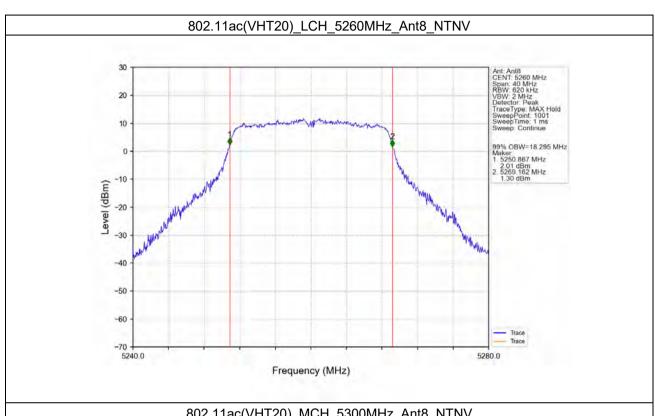
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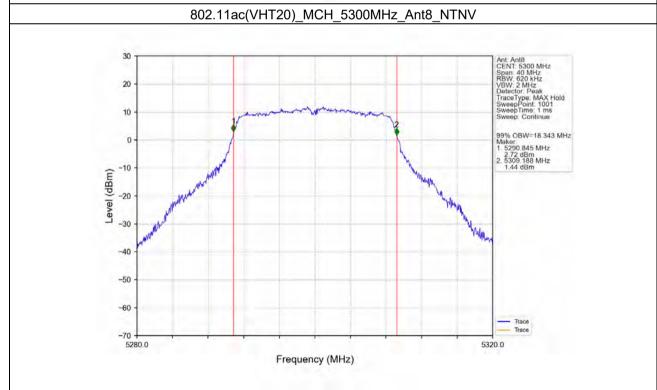


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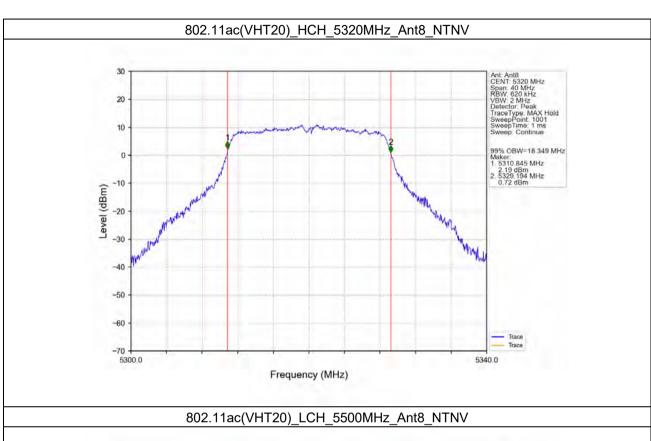
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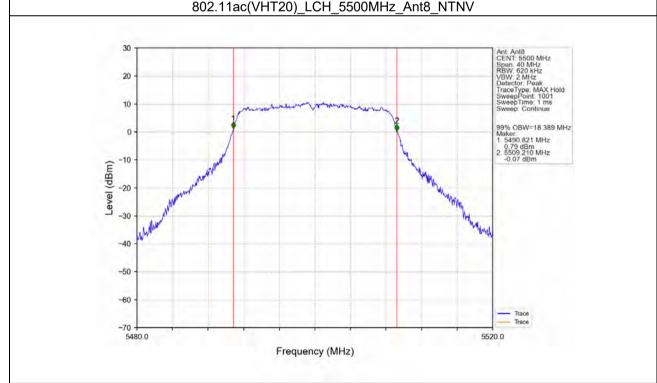


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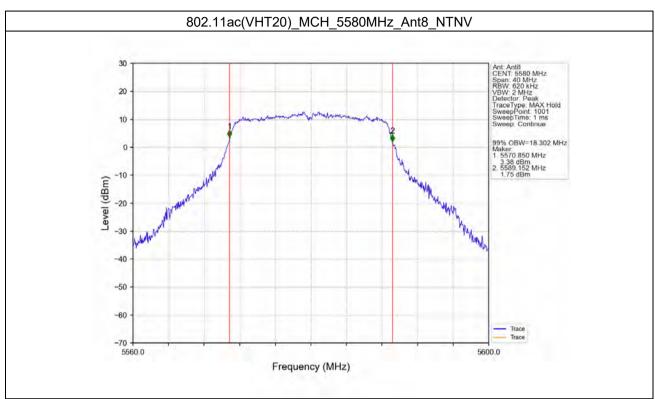
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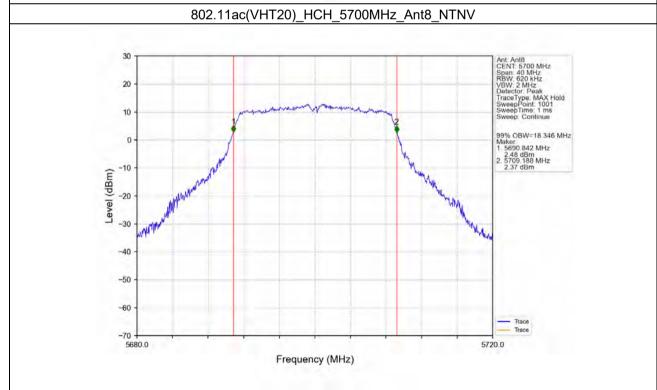


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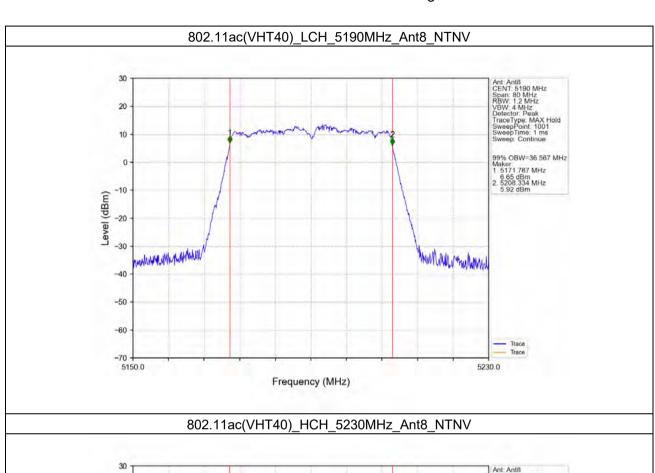
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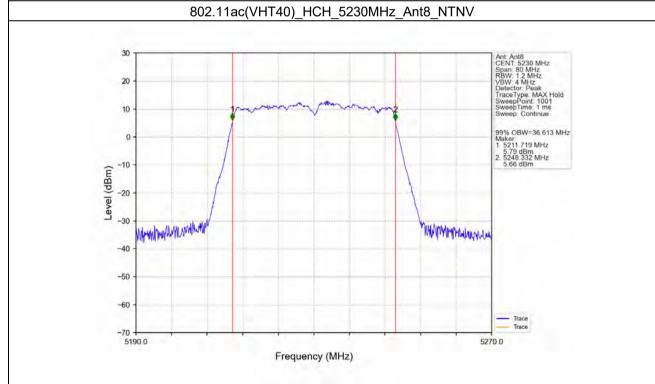


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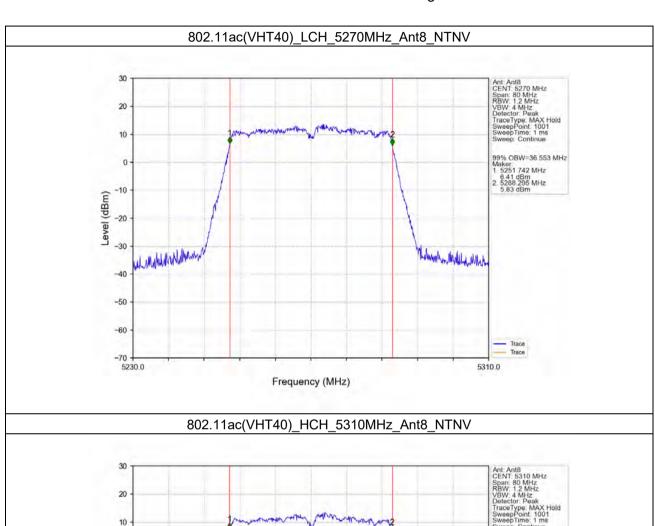
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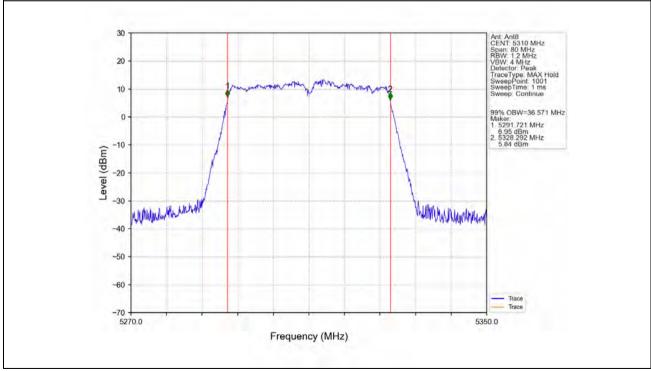


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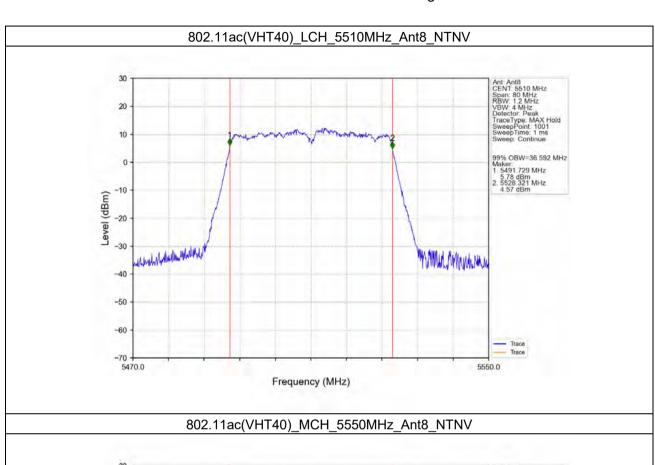
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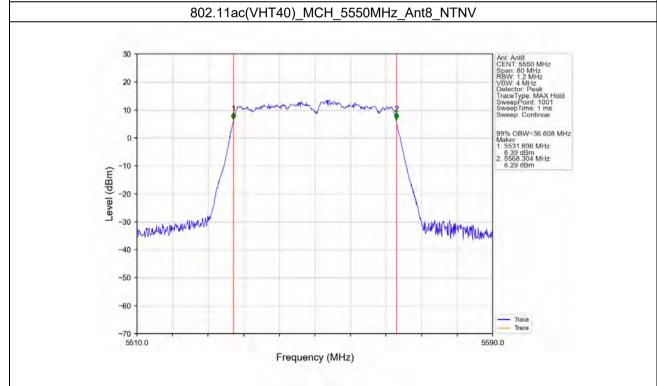


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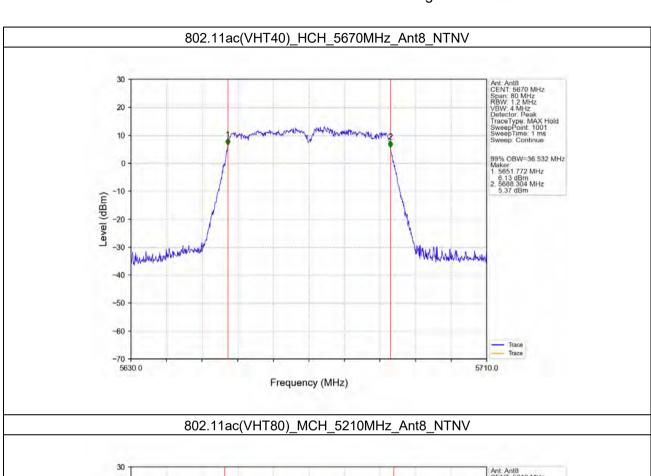
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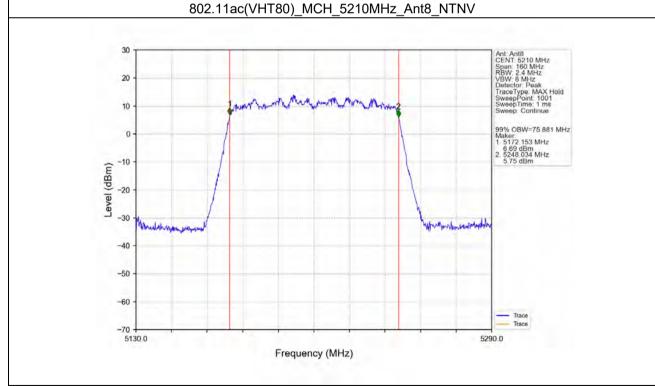


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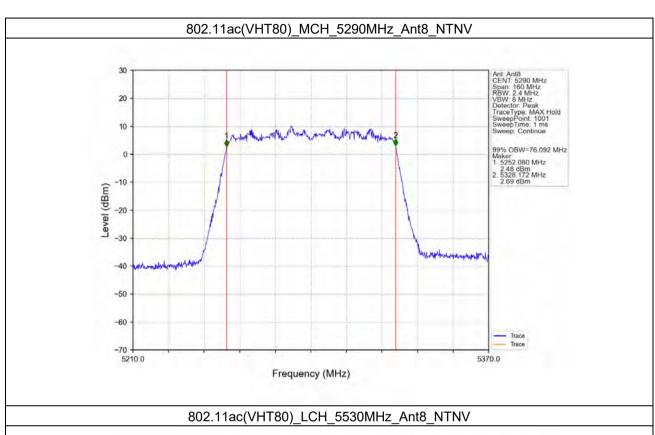
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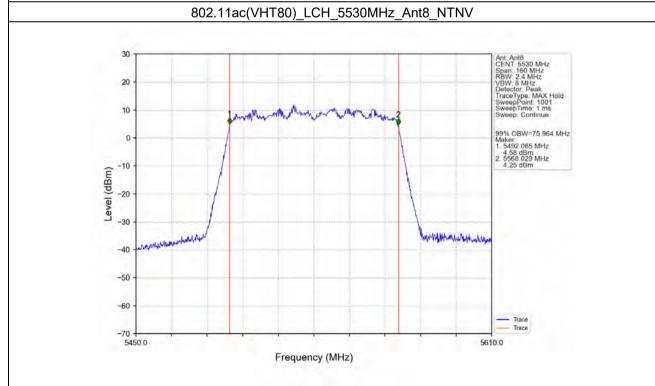


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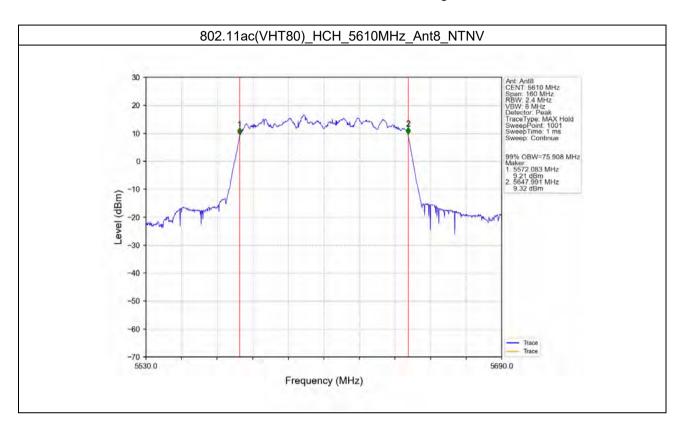
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