

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100409206

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TEST REPORT

Application No.: SZCR2411004092IT

Applicant: Shenzhen Tinno Mobile Technology Corp.

Address of Applicant: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South

Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong,

China

Manufacturer: Shenzhen Tinno Mobile Technology Corp.

Address of Manufacturer: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South

Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong,

China

Equipment Under Test (EUT):

EUT Name: Tablet

Model No.: T715DS

FCC ID: XD6T715DS

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

Date of Receipt: 2024-11-04

Date of Test: 2024-12-07 to 2025-01-13

Date of Issue: 2025-01-23

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2025-01-23		Original	

Authorized for issue by:		
	Dorjar. In ang	
	Donjon Huang/Project Engineer	
	Exic 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	Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass	

Item	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.

EUT Description:	Tablet				
Model No.:	T715DS				
Hardware Version:	V1.0				
Software Version:	T715DSV0	1.05.10			
Power Supply:	DC 3.85V from internal rechargeable battery which can be charge by AC/DC adapter				
	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 5250MHz				
0	5250MHz to	5350MHz			
Operation Frequency:	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:	MHz: 802.11n(HT40)/ac(VHT40)			
	80MHz:	0MHz: 802.11ac(VHT80)			
Antenna Type: ☐External, ☐Integrated					
	5150MHz to 5250MHz: 0.5dBi(Ant4);				
	5250MHz to 5350MHz: 0.2dBi(Ant4);				
	5470MHz to 5725MHz: 0.6dBi(Ant4);				
Antenna Gain:	5725MHz to 5850MHz: 0.2dBi(Ant4);				
	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:	□ МІМО	STBC: 802.11n/ac: Tx & Rx			
		TXBF: 802.11n/ac: Tx & Rx			
	☐ Diversity 802.11a: Tx & Rx				
TPC Function:	☐Support, ☐Not Support				
DFS Function:	Master				



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	☐Slave with radar detection	⊠Sla	ve without radar detection	
RF Cable:	4900MHz ~ 5250MHz(1.6dB)		5250MHz ~ 5350MHz(1.7dB)	
Rr Cable.	5470MHz ~ 5725MHz(1.8dB)		5725MHz ~ 5850MHz (2dB)	
Remark:				
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EUT1	1nd	
EUT2	add 2nd source	
Note: For detailed instructions, see the Difference Statement.		

4.2 Environment Parameter

Environment Parameter		1020 mbar Selected Values During Tests		lues During Tests
Relative Humidity		37.1-50.8 % RH Ambient		
Value		Temperati	ure(°C)	Voltage(V)
NTNV		20~25		3.85
LTLV		0		3.4
LTHV		0		4.4
HTLV		45		3.4
HTHV		45		4.4
Note:				·
NV:Normal Voltage LV:Low Extreme Test Vol		ltage	HV:High Ext	treme Test Voltage
NT:Normal Temperature LT:Low Extreme Test Ten		mperature	HT:High Ext	treme Test Temperature

4.3 Description of Support Units					
Description	Manufacturer	Model No.	Serial No.	FCC ID	
Router	NETGEAR	R7800	SZ-WRG-A-072	PY315100319	



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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

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



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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



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Coaxial Cable SGS N/A SEM025-01 2024-07-06 2025-07-05

Radiated Spurious Emis	Radiated Spurious Emissions Above 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14



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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	Agilent	N5182A	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

General used equipmen	t				
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 Integrated antenna, and the connection port is integrated into the product. The antenna cannot be replaced.

5150MHz to 5250MHz: 0.5dBi(Ant4);* 5250MHz to 5350MHz: 0.2dBi(Ant4);* 5470MHz to 5725MHz: 0.6dBi(Ant4);* 5725MHz to 5850MHz: 0.2dBi(Ant4);*

*Note:

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

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.



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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:

Fraguency of emission(MHz)	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

7.1.2 Test IV	7.1.2 Test Mode Description				
Pre-scan / Final test	Mode Code	Description			
Final test	09	Charge + TX mode (U-NII-1)_Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Pre-scan	10	Charge + TX mode (U-NII-2A) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Pre-scan	11	Charge + TX mode (U-NII-2C) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Pre-scan	12	Charge + TX mode (U-NII-3) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Pre-scan	13	Charge + TX mode (U-NII-1)_Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type			



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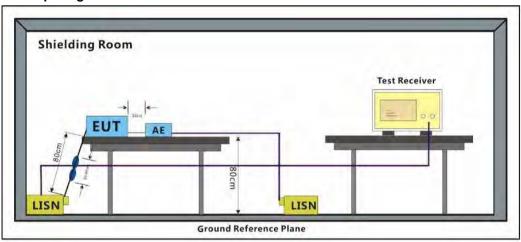
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		have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	14	Charge + TX mode (U-NII-2A) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2C) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-3) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram





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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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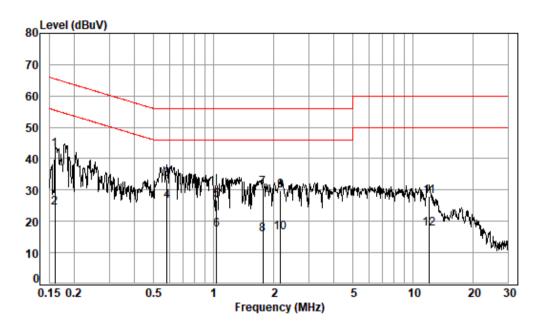


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Test Mode: 09: Line: Live line



: Shielding Room

Condition: Line Job No. : 04092IT

Test mode: 09

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1607	0.06	10.18	32.66	42.90	65.43	-22.53	QP
2		0.1607	0.06	10.18	14.09	24.33	55.43	-31.10	Average
3	*	0.5854	0.08	9.59	23.92	33.59	56.00	-22.41	QP
4	*	0.5854	0.08	9.59	16.70	26.37	46.00	-19.63	Average
5		1.0375	0.09	9.58	17.01	26.68	56.00	-29.32	QP
6		1.0375	0.09	9.58	7.54	17.21	46.00	-28.79	Average
7		1.7623	0.10	9.58	20.94	30.62	56.00	-25.38	QP
8		1.7623	0.10	9.58	6.28	15.96	46.00	-30.04	Average
9		2.1668	0.10	9.59	20.13	29.82	56.00	-26.18	QP
10		2.1668	0.10	9.59	6.70	16.39	46.00	-29.61	Average
11		11.9962	0.23	9.79	17.84	27.86	60.00	-32.14	QP
12		11.9962	0.23	9.79	7.77	17.79	50.00	-32.21	Average



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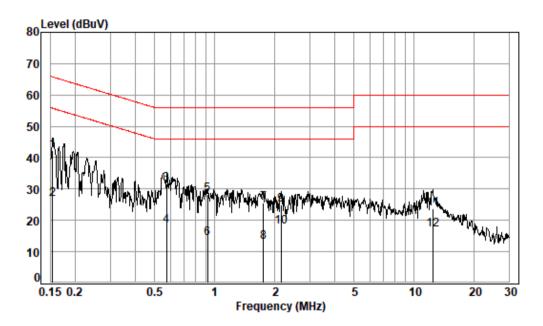


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Test Mode: 09; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 04092IT

Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1540	0.06	10.14	32.09	42.29	65.78	-23.49	QP
2	0.1540	0.06	10.14	16.60	26.80	55.78	-28.98	Average
3	0.5731	0.08	9.69	21.96	31.73	56.00	-24.27	QP
4 *	0.5731	0.08	9.69	8.54	18.31	46.00	-27.69	Average
5	0.9233	0.09	9.56	18.65	28.30	56.00	-27.70	QP
6	0.9233	0.09	9.56	4.79	14.44	46.00	-31.56	Average
7	1.7529	0.10	9.55	15.86	25.51	56.00	-30.49	QP
8	1.7529	0.10	9.55	3.54	13.19	46.00	-32.81	Average
9	2.1553	0.10	9.55	15.41	25.06	56.00	-30.94	QP
10	2.1553	0.10	9.55	8.38	18.03	46.00	-27.97	Average
11	12.4495	0.23	9.73	13.79	23.75	60.00	-36.25	QP
12	12.4495	0.23	9.73	7.09	17.05	50.00	-32.95	Average



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7.2 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequen	cy band(MHz)	Limit		
5150	5250	≤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 26dB emission bandwidth in MHz.			
	The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.			

7.2.1 E.U.T. Operation

Operating Environment:

24.7 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar Temperature:

7.2.2 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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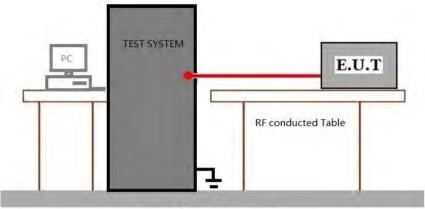
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7.2.3 Test Setup Diagram



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)

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					
960-1000	500	3					

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.5.2 16311	7.3.2 Test mode bescription				
Pre-scan / Final test	Mode Code	Description			
Pre-scan	09	Charge + TX mode (U-NII-1)_Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Pre-scan	10	Charge + TX mode (U-NII-2A) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Pre-scan	11	Charge + TX mode (U-NII-2C) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Final test	12	Charge + TX mode (U-NII-3) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			



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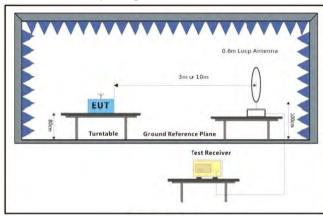
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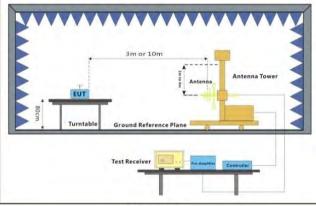
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Pre-scan	13	Charge + TX mode (U-NII-1)_Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	14	Charge + TX mode (U-NII-2A) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2C) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-3) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

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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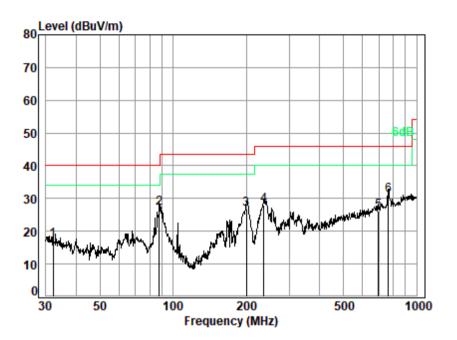


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Test Mode: 12; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04092IT

Test Mode: 12

		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	32.067	20.24	0.70	27.79	24.13	17.28	40.00	-22.72	QP
2 q	87.725	11.43	1.14	27.63	42.24	27.18	40.00	-12.82	QP
3	199.986	14.10	1.76	27.17	38.06	26.75	43.50	-16.75	QP
4	235.816	17.07	1.94	27.02	35.86	27.85	46.00	-18.15	QP
5	696.857	25.88	3.53	27.73	24.55	26.23	46.00	-19.77	QP
6	766.057	26.59	3.76	27.56	28.16	30.95	46.00	-15.05	OP



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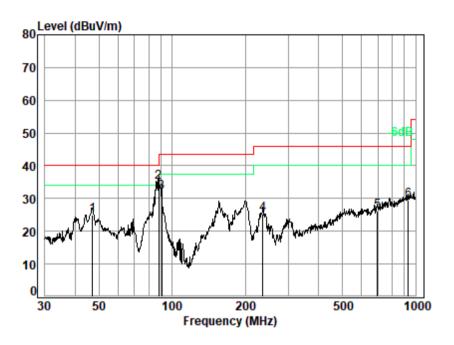


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Test Mode: 12; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04092IT

Test Mode: 12

		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	46.995	13.64	0.84	27.74	38.32	25.06	40.00	-14.94	QP
2 q	88.033	11.47	1.15	27.62	49.87	34.87	43.50	-8.63	QP
3	90.537	11.77	1.16	27.62	46.71	32.02	43.50	-11.48	QP
4	235.816	17.07	1.94	27.02	33.33	25.32	46.00	-20.68	QP
5	696.857	25.88	3.53	27.73	24.60	26.28	46.00	-19.72	QP
6	932.272	28.16	4.21	26.53	23.60	29.44	46.00	-16.56	OP



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7.4 Radiated Emissions (Above 1GHz)

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

- *(1) 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.

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

Mode Pre-scan / Description Final test Code



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Final test	09	Charge + TX mode (U-NII-1)_Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.							
Final test	10	Charge + TX mode (U-NII-2A) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.							
Final test	11	Charge + TX mode (U-NII-2C) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.							
Final test	12	charge + TX mode (U-NII-3) _Keep the EUT1 in charging and continuously ansmitting mode with all modulation types. All data rates for each modulation type ave been tested and found the data rate @ 6Mbps is the worst case of IEEE 02.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the ata of worst case is recorded in the report.							
Pre-scan	13	Charge + TX mode (U-NII-1)_Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.							
Pre-scan	14	Charge + TX mode (U-NII-2A) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.							
Final test	15	Charge + TX mode (U-NII-2C) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.							
Pre-scan	16	Charge + TX mode (U-NII-3) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.							



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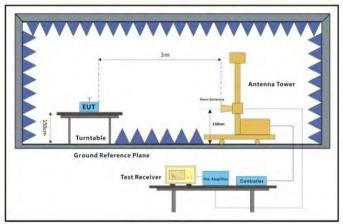


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7.4.3 Test Setup Diagram



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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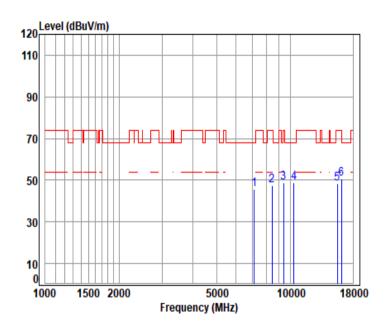


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11a_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

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	7124.029	11.88	36.45	56.60	53.93	45.66	68.20	-22.54	peak
2	8427.813	11.82	38.49	55.51	52.60	47.40	74.00	-26.60	peak
3	9369.584	12.26	38.80	54.67	52.35	48.74	74.00	-25.26	peak
4	pp10360.000	13.60	39.00	53.88	50.01	48.73	68.20	-19.47	peak
5	15540.000	17.00	38.56	54.14	46.84	48.26	74.00	-25.74	peak
6	16141.360	17.12	38.50	54.04	48.95	50.53	74.00	-23.47	peak



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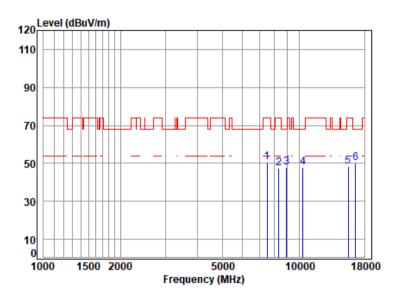


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11a TX CH 36 Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5180 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dB dB dBuV dBuV/m dBuV/m dB/m 7480.987 36.80 56.32 59.11 11.28 50.87 74.00 -23.13 peak 8325.429 11.73 38.31 55.61 52.86 47.29 74.00 -26.71 peak 3 8922.510 12.20 38.55 55.07 52.22 47.90 68.20 -20.30 peak 39.00 53.88 49.10 10360.000 13.60 47.82 68.20 -20.38 peak 5 15540.000 17.00 38.56 54.14 46.75 48.17 74.00 -25.83 peak 6 pp16591.430 17.66 39.17 54.18 47.55 50.20 68.20 -18.00 peak



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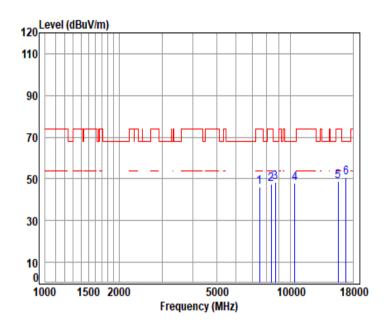


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11a_TX_CH_44_Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5220 TX RSE

: 5G WIFI 11A

		MILT I	IA						
		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	54.10	45.86	74.00	-28.14	peak
2	8342.406	11.70	38.58	55.59	52.57	47.26	74.00	-26.74	peak
3	8698.174	12.09	38.59	55.27	52.82	48.23	68.20	-19.97	peak
4	10440.000	13.63	39.04	53.84	49.19	48.02	68.20	-20.18	peak
5	15660.000	17.23	38.56	54.10	47.26	48.95	74.00	-25.05	peak
6	pp16881,220	18.04	39.60	54.26	47.34	50.72	68.20	-17.48	neak



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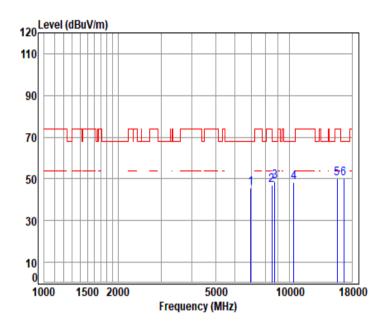


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11a_TX_CH_44_Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5220 TX RSE

: 5G WTFT 11A

		MILT I	IA						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	6959.073	11.37	36.12	56.71	55.00	45.78	68.20	-22.42	peak
2	8496.769	12.29	38.31	55.45	52.02	47.17	74.00	-26.83	peak
3	8733.685	12.14	38.53	55.24	53.47	48.90	68.20	-19.30	peak
4	10440.000	13.63	39.04	53.84	49.66	48.49	68.20	-19.71	peak
5	15660.000	17.23	38.56	54.10	48.45	50.14	74.00	-23.86	peak
6	pp16693,140	17.59	39.39	54.21	47.61	50.38	68.20	-17.82	neak



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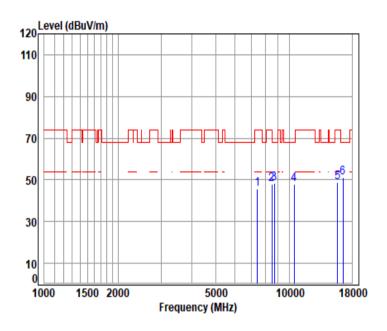


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11a TX CH 48 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5240 TX RSE

: 5G WTFT 11A

	. 50	MATIT T	14						
		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	7412.722	11.47	36.73	56.37	53.58	45.41	74.00	-28.59	peak
2	8479.478	12.17	38.34	55.47	52.73	47.77	74.00	-26.23	peak
3	8680.473	12.06	38.52	55.29	53.21	48.50	68.20	-19.70	peak
4	10480.000	13.64	39.08	53.81	49.22	48.13	68.20	-20.07	peak
5	15720.000	17.22	38.58	54.08	46.92	48.64	74.00	-25.36	peak
6	nn16574,540	17.67	39.12	54.17	48.60	51.22	68.20	-16.98	neak



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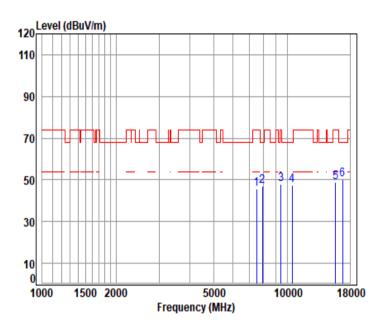


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11a_TX_CH_48_Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5240 TX RSE

· 56 WIFT 11A

	. 50	MILI I	IA							
		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	7488.611	11.26	36.80	56.31	53.96	45.71	74.00	-28.29	peak	
2	7928.178	11.55	37.66	55.96	53.91	47.16	68.20	-21.04	peak	
3	9436.627	12.40	38.80	54.61	51.30	47.89	74.00	-26.11	peak	
4	10480.000	13.64	39.08	53.81	48.57	47.48	68.20	-20.72	peak	
5	15720.000	17.22	38.58	54.08	46.99	48.71	74.00	-25.29	peak	
6	pp16778.370	17.49	39.56	54.23	47.31	50.13	68.20	-18.07	peak	



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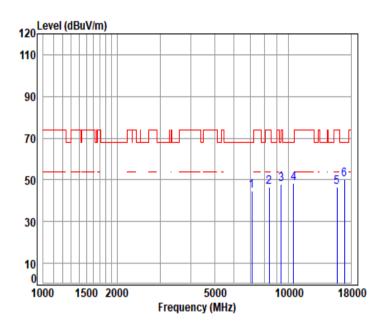


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11a TX CH 52 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5260 TX RSE

: 5G WIFI 11A

	. 50		10							
		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	7095.063	11.96	36.39	56.62	53.01	44.74	68.20	-23.46	peak	
2	8359.419	11.68	38.68	55.58	51.67	46.45	74.00	-27.55	peak	
3	9360.045	12.25	38.80	54.68	51.42	47.79	74.00	-26.21	peak	
4	10520.000	13.63	39.14	53.79	49.24	48.22	68.20	-19.98	peak	
5	15780.000	17.08	38.52	54.07	45.17	46.70	74.00	-27.30	peak	
	nn16967 /110								•	



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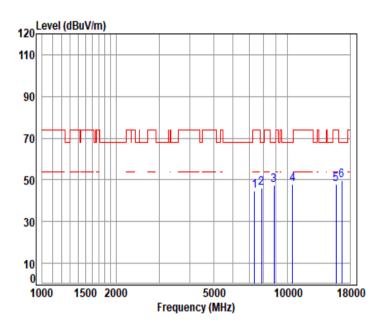


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11a TX CH 52 Vertical



Condition: 3m VERTICAL Job No : 04092IT : 5260 TX RSE Mode

: 5G WIFI 11A

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 7337.601 11.51 36.78 56.43 52.71 44.57 74.00 -29.43 peak 1 7863.837 11.46 37.46 56.01 52.97 45.88 68.20 -22.32 peak 3 8805.143 12.25 38.50 55.18 51.99 47.56 68.20 -20.64 peak 10520.000 13.63 39.14 53.79 48.93 4 47.91 68.20 -20.29 peak 15780.000 17.08 38.52 54.07 46.26 47.79 74.00 -26.21 peak 6 pp16693.140 17.59 39.39 54.21 47.04 49.81 68.20 -18.39 peak



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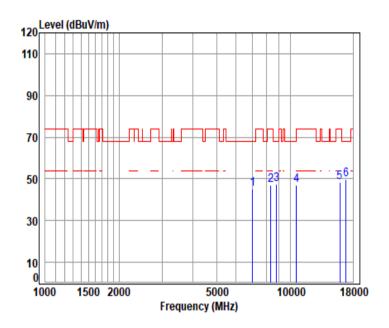


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11a TX CH 60 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5300 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7023.162	11.51	36.25	56.68	53.98	45.06	68.20	-23.14	peak
2	8325.429	11.73	38.31	55.61	52.41	46.84	74.00	-27.16	peak
3	8796.179	12.24	38.50	55.18	52.09	47.65	68.20	-20.55	peak
4	10600.000	13.59	39.30	53.74	47.76	46.91	68.20	-21.29	peak
5	15900.000	17.28	38.70	54.03	46.22	48.17	74.00	-25.83	peak
6	pp16864.040	17.92	39.60	54.26	46.57	49.83	68.20	-18.37	peak



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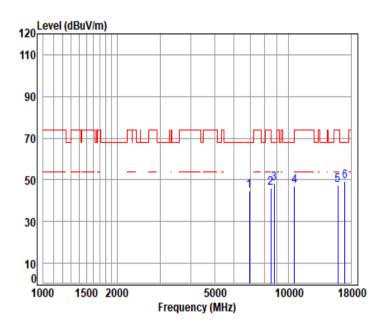


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11a TX CH 60 Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5300 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6923.722	11.37	36.15	56.72	53.89	44.69	68.20	-23.51	peak
2	8496.769	12.29	38.31	55.45	50.94	46.09	74.00	-27.91	peak
3	8751.494	12.17	38.50	55.22	52.83	48.28	68.20	-19.92	peak
4	10600.000	13.59	39.30	53.74	47.69	46.84	68.20	-21.36	peak
5	15900.000	17.28	38.70	54.03	45.72	47.67	74.00	-26.33	peak
6	pp17002.020	18.08	39.70	54.30	45.99	49.47	68.20	-18.73	peak



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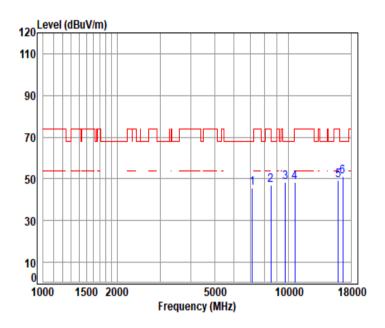


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11a TX CH 64 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5320 TX RSE

· 56 WIFT 11A

	. 50	MTLT T	IA							
		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	7138.557	11.81	36.48	56.59	53.83	45.53	68.20	-22.67	peak	
2	8479.478	12.17	38.34	55.47	52.14	47.18	74.00	-26.82	peak	
3	9709.634	12.74	38.68	54.36	51.53	48.59	68.20	-19.61	peak	
4	10640.000	13.77	39.34	53.72	49.15	48.54	74.00	-25.46	peak	
5	15960.000	17.20	38.64	54.01	47.53	49.36	74.00	-24.64	peak	
6	pp16676.140	17.60	39.35	54.20	48.45	51.20	68.20	-17.00	peak	



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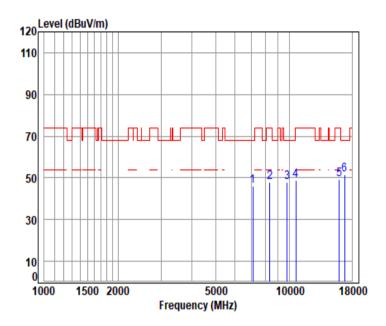


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11a TX CH 64 Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5320 TX RSE

· 56 WIFT 11A

	. 50	MILI I	IA						
		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	7095.063	11.96	36.39	56.62	54.18	45.91	68.20	-22.29	peak
2	8333.913	11.72	38.44	55.60	53.19	47.75	74.00	-26.25	peak
3	9779.111	13.01	38.60	54.30	50.73	48.04	68.20	-20.16	peak
4	10640.000	13.77	39.34	53.72	49.40	48.79	74.00	-25.21	peak
5	15960.000	17.20	38.64	54.01	47.61	49.44	74.00	-24.56	peak
6	pp16795.470	17.47	39.59	54.24	48.63	51.45	68.20	-16.75	peak



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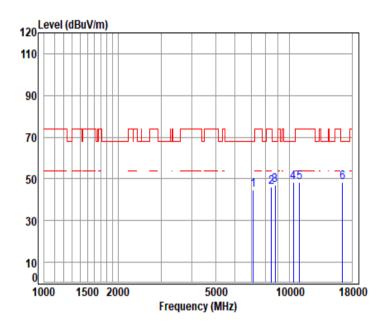


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11a TX CH 100 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5500 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	53.22	44.93	68.20	-23.27	peak
2	8462.222	12.05	38.38	55.48	51.08	46.03	74.00	-27.97	peak
3	8751.494	12.17	38.50	55.22	51.64	47.09	68.20	-21.11	peak
4	10384.810	13.61	39.00	53.87	49.51	48.25	68.20	-19.95	peak
5	11000.000	14.17	39.40	53.50	48.43	48.50	74.00	-25.50	peak
6	pp16500.000	17.74	38.90	54.15	45.87	48.36	68.20	-19.84	peak



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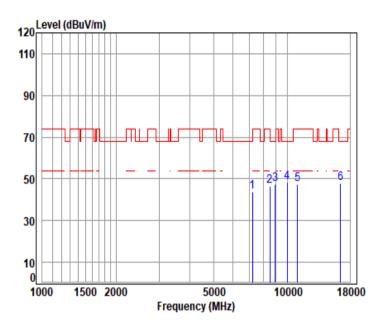


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11a_TX_CH_100_Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5500 TX RSE

: 5G WTFT 11A

	. 50	MILT I	IA							
		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	7218.988	11.52	36.60	56.52	52.37	43.97	68.20	-24.23	peak	
2	8496.769	12.29	38.31	55.45	51.19	46.34	74.00	-27.66	peak	
3	8922.510	12.20	38.55	55.07	51.69	47.37	68.20	-20.83	peak	
4	pp10000.720	13.01	38.90	54.10	50.46	48.27	68.20	-19.93	peak	
5	11000.000	14.17	39.40	53.50	47.29	47.36	74.00	-26.64	peak	
6	16500.000	17.74	38.90	54.15	45.62	48.11	68.20	-20.09	neak	



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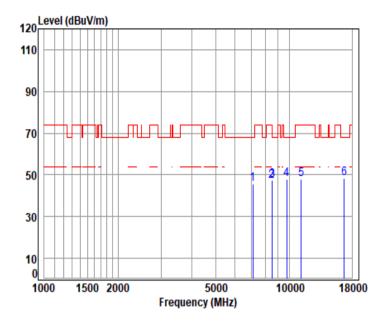


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11a TX CH 116 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5580 TX RSE

: 5G WTFT 11A

	. 50	MILT I	IH							
		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	7109.531	11.95	36.42	56.61	53.64	45.40	68.20	-22.80	peak	
2	8496.769	12.29	38.31	55.45	51.67	46.82	74.00	-27.18	peak	
3	8531.458	12.20	38.30	55.42	52.29	47.37	68.20	-20.83	peak	
4	9769.155	12.97	38.60	54.31	50.74	48.00	68.20	-20.20	peak	
5	11160.000	14.72	39.56	53.55	47.13	47.86	74.00	-26.14	peak	
6	pp16740.000	17.54	39.48	54.22	45.69	48.49	68.20	-19.71	neak	



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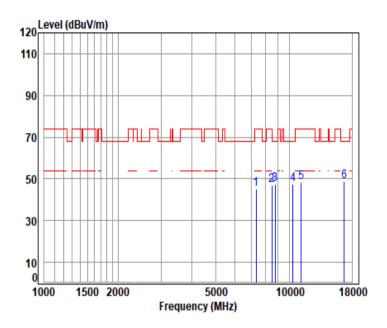


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11a_TX_CH_116_Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5580 TX RSE

· 56 WIFT 11A

	. 50	MTLT T	IA						
		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	7307.767	11.51	36.72	56.45	53.19	44.97	74.00	-29.03	peak
2	8496.769	12.29	38.31	55.45	51.76	46.91	74.00	-27.09	peak
3	8742.585	12.16	38.51	55.23	51.98	47.42	68.20	-20.78	peak
4	10353.130	13.60	39.00	53.89	48.87	47.58	68.20	-20.62	peak
5	11160.000	14.72	39.56	53.55	47.57	48.30	74.00	-25.70	peak
6	pp16740.000	17.54	39.48	54.22	46.07	48.87	68.20	-19.33	peak



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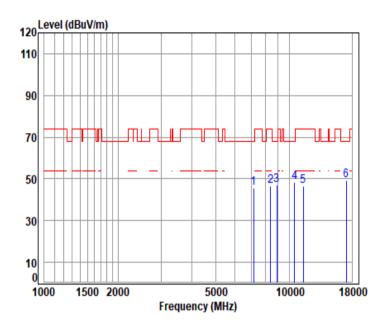


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11a TX CH 140 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5700 TX RSE

· 56 WIFT 11A

	. 50	MTLT T	IA						
		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	7145.831	11.77	36.49	56.58	54.06	45.74	68.20	-22.46	peak
2	8402.101	11.64	38.59	55.54	51.63	46.32	74.00	-27.68	peak
3	8895.287	12.22	38.59	55.09	51.49	47.21	68.20	-20.99	peak
4	10491.130	13.64	39.09	53.81	49.44	48.36	68.20	-19.84	peak
5	11400.000	14.21	39.70	53.62	46.13	46.42	74.00	-27.58	peak
6	pp17100.000	18.47	39.80	54.32	45.36	49.31	68.20	-18.89	peak



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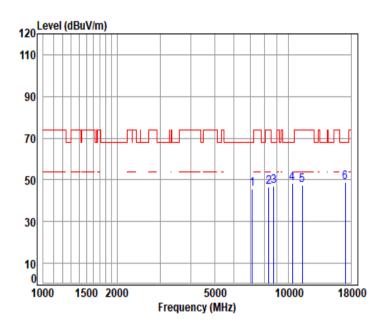


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11a TX CH 140 Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5700 TX RSE

: 5G WIFI 11A

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 56.59 7131.289 11.84 36.46 53.83 45.54 68.20 -22.66 peak 8333.913 11.72 38.44 55.60 52.10 46.66 74.00 -27.34 peak 8724.793 12.13 38.55 55.25 51.50 68.20 -21.27 peak 46.93 10384.810 13.61 39.00 53.87 49.62 48.36 68.20 -19.84 peak 11400.000 14.21 39.70 53.62 47.27 47.56 74.00 -26.44 peak

6 pp17100.000 18.47 39.80 54.32 44.79 48.74 68.20 -19.46 peak



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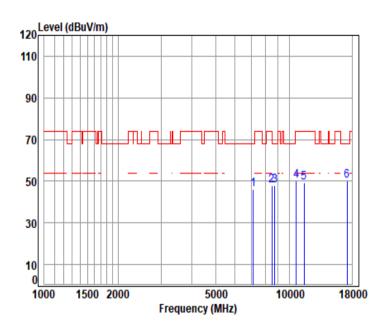


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11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5745 TX RSE

: 5.8GWIFI 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	7116.776	11.91	36.43	56.61	54.36	46.09	68.20	-22.11	peak
2	8470.845	12.11	38.36	55.48	52.72	47.71	74.00	-26.29	peak
3	8733.685	12.14	38.53	55.24	52.48	47.91	68.20	-20.29	peak
4	10685.250	13.97	39.39	53.69	50.34	50.01	74.00	-23.99	peak
5	11490.000	14.97	39.61	53.65	48.40	49.33	74.00	-24.67	peak
6	pp17235.000	17.83	40.01	54.35	46.68	50.17	68.20	-18.03	peak



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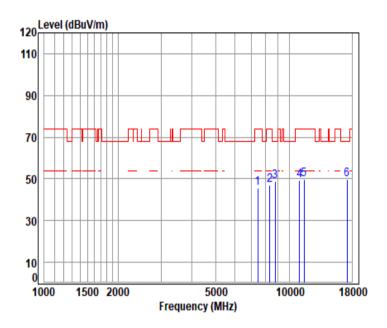


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11a_TX_CH_149_Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5745 TX RSE

· 5 8GWTET 11A

	. 5.0	GMILI	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	7427.838	11.42	36.76	56.36	53.90	45.72	74.00	-28.28	peak	
2	8333.913	11.72	38.44	55.60	52.42	46.98	74.00	-27.02	peak	
3	8769.341	12.20	38.50	55.21	53.16	48.65	68.20	-19.55	peak	
4	11005.580	14.20	39.41	53.50	49.35	49.46	74.00	-24.54	peak	
5	11490.000	14.97	39.61	53.65	48.71	49.64	74.00	-24.36	peak	
6	pp17235.000	17.83	40.01	54.35	46.05	49.54	68.20	-18.66	peak	



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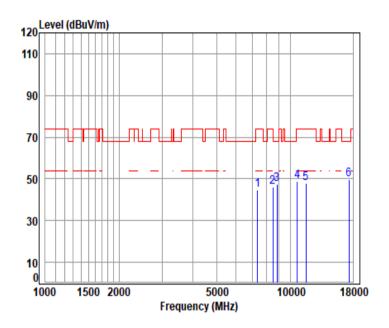


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11a_TX_CH_157_Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT Mode : 5785 TX RSE

: 5.8GWIFI 11A

	. 5.0dW1/1 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	7345.079	11.51	36.79	56.42	52.63	44.51	74.00	-29.49	peak	
2	8470.845	12.11	38.36	55.48	51.28	46.27	74.00	-27.73	peak	
3	8823.098	12.24	38.50	55.16	51.84	47.42	68.20	-20.78	peak	
4	10685.250	13.97	39.39	53.69	48.99	48.66	74.00	-25.34	peak	
5	11570.000	14.78	39.60	53.67	47.34	48.05	74.00	-25.95	peak	
6	nn17355 000	18 00	40 31	5/1 37	45 89	49 83	68 20	-18 37	neak	



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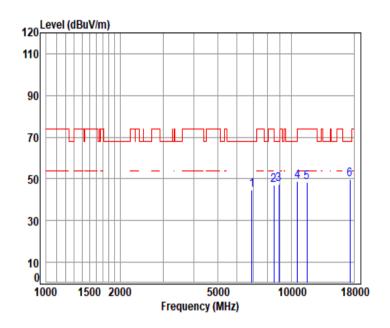


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11a_TX_CH_157_Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5785 TX RSE

: 5.8GWIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6895.570	11.37	36.18	56.72	53.93	44.76	68.20	-23.44	peak
2	8479.478	12.17	38.34	55.47	51.86	46.90	74.00	-27.10	peak
3	8877.185	12.23	38.55	55.11	51.61	47.28	68.20	-20.92	peak
4	10576.960	13.60	39.25	53.75	49.86	48.96	68.20	-19.24	peak
5	11570.000	14.78	39.60	53.67	47.85	48.56	74.00	-25.44	peak
6	pp17355.000	18.00	40.31	54.37	45.82	49.76	68.20	-18.44	peak



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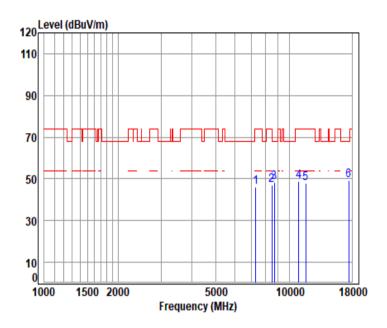


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11a TX CH 165 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5825 TX RSE

· 5 8GWTET 11A

	. 5.0	GMILI	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	7292.895	11.51	36.69	56.47	54.40	46.13	74.00	-27.87	peak
2	8479.478	12.17	38.34	55.47	51.98	47.02	74.00	-26.98	peak
3	8680.473	12.06	38.52	55.29	53.08	48.37	68.20	-19.83	peak
4	10905.150	13.97	39.31	53.56	48.94	48.66	74.00	-25.34	peak
5	11650.000	14.69	39.55	53.69	47.28	47.83	74.00	-26.17	peak
6	pp17475.000	18.35	40.78	54.40	44.75	49.48	68.20	-18.72	peak



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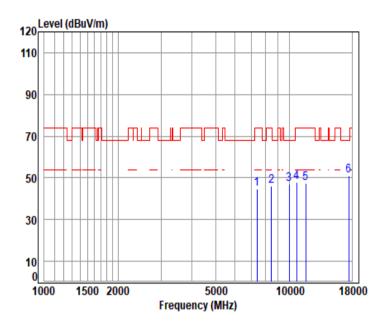


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11a_TX_CH_165_Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5825 TX RSE

· 5 8GWTET 11A

	. 5.0	GMILI	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	7375.065	11.50	36.75	56.40	52.95	44.80	74.00	-29.20	peak
2	8445.000	11.94	38.42	55.50	51.09	45.95	74.00	-28.05	peak
3	9980.368	12.97	38.90	54.12	49.41	47.16	68.20	-21.04	peak
4	10728.870	13.94	39.37	53.66	48.26	47.91	74.00	-26.09	peak
5	11650.000	14.69	39.55	53.69	46.77	47.32	74.00	-26.68	peak
6	pp17475.000	18.35	40.78	54.40	46.57	51.30	68.20	-16.90	peak



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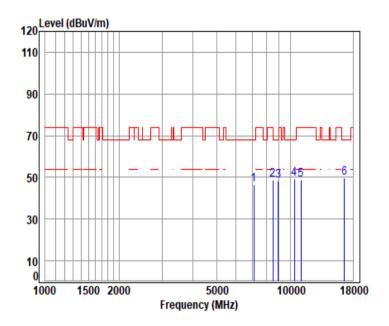
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Test on the worst case(Sample2#):

11ac 80M TX CH 106 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT Mode

: 5530 TX RSE

: 5G Wi-Fi 11ac80

	. 50								
		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	
4	7005 063	44.06	26.20	FC C2	F4 F0	46.33	60.20	24 00	
1	7095.063	11.96	36.39	56.62	54.59	46.32	68.20	-21.88	реак
2	8496.769	12.29	38.31	55.45	53.56	48.71	74.00	-25.29	peak
3	8922.510	12.20	38.55	55.07	52.60	48.28	68.20	-19.92	Peak
4	10384.810	13.61	39.00	53.87	50.53	49.27	68.20	-18.93	peak
5	11060.000	14.46	39.46	53.52	48.59	48.99	74.00	-25.01	peak
6	pp16590.000	17.66	39.17	54.18	47.15	49.80	68.20	-18.40	peak



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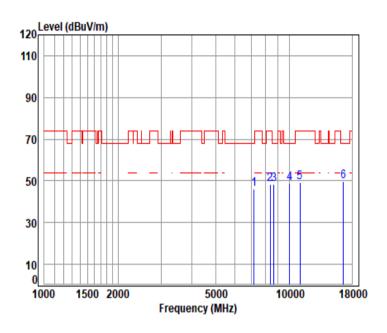


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11ac 80M TX CH 106 Vertical



Condition: 3m VERTICAL Job No : 04092IT Mode : 5530 TX RSE

: 5G Wi-Fi 11ac80

		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	7175.005	11.64	36.55	56.56	54.59	46.22	68.20	-21.98	peak
2	8342.406	11.70	38.58	55.59	53.57	48.26	74.00	-25.74	peak
3	8636.376	12.01	38.43	55.33	53.13	48.24	68.20	-19.96	peak
4	10021.110	13.06	38.94	54.09	51.04	48.95	68.20	-19.25	peak
5	11060.000	14.46	39.46	53.52	48.95	49.35	74.00	-24.65	peak
	nn16590 000								-



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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

- *(1) 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.

7.5.1 E.U.T. Operation

Operating Environment:

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



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7.5.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	2000.16100.1
Final test	09	Charge + TX mode (U-NII-1)_Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	Charge + TX mode (U-NII-2A) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode (U-NII-2C) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	12	Charge + TX mode (U-NII-3) _Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	Charge + TX mode (U-NII-1)_Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	14	Charge + TX mode (U-NII-2A) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2C) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-3) _Keep the EUT2 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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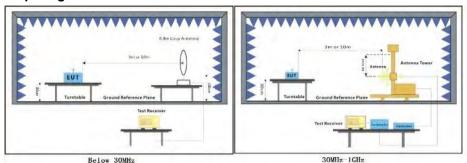


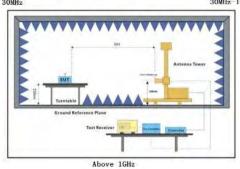
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7.5.3 Test Setup Diagram







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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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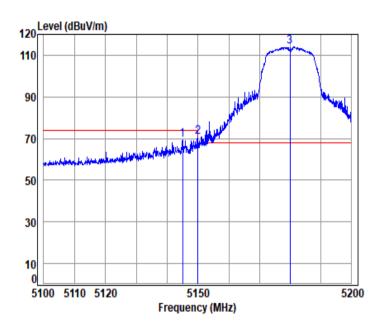


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11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.959	10.12	32.39	30.84	57.82	69.49	74.00	-4.51	peak
2	5149.980	10.14	32.40	30.84	58.95	70.65	74.00	-3.35	peak
3 pp	5180.000	10.25	32.46	30.83	102.26	114.14	68.20	45.94	neak



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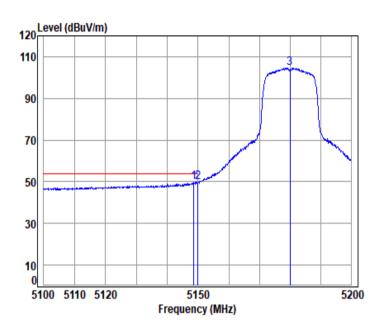


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11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.558	10.13	32.40	30.84	38.07	49.76	54.00	-4.24	Average
2 pp	5149.980	10.14	32.40	30.84	38.25	49.95	54.00	-4.05	Average
3	5180.000	10.25	32.46	30.83	92.79	104.67			Average



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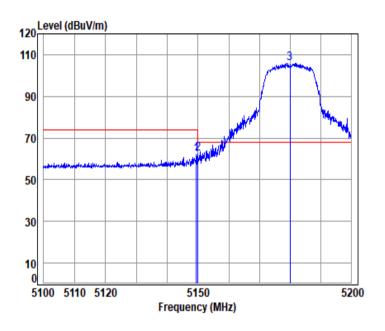


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11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5180 Band edge

: 5G WIFI 11A

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Level Level Line MHz dB dB/m dBuV dBuV/m dBuV/m 5149.458 10.14 32.40 30.84 50.46 62.16 74.00 -11.84 Peak 1 10.14 32.40 30.84 50.63 62.33 74.00 -11.67 Peak 5149.980 3 pp 5180.000 10.25 32.46 30.83 94.06 105.94 68.20 37.74 Peak



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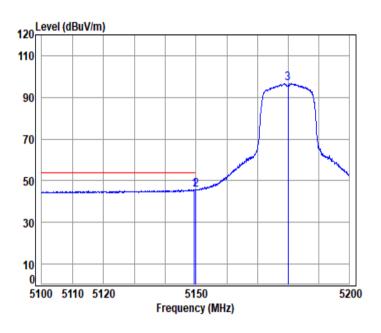


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11a_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

: 5180 Band edge Mode

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.458	10.14	32.40	30.84	33.96	45.66	54.00	-8.34	Average	
2 pp	5149.980	10.14	32.40	30.84	34.14	45.84	54.00	-8.16	Average	
3	5180 000	10 25	32 46	30 83	84 81	96 69			Average	



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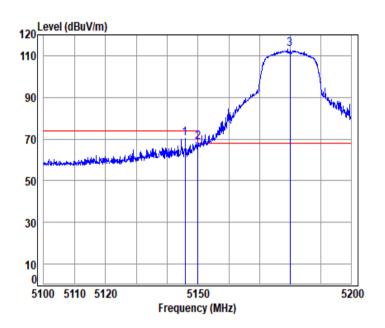


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11n_HT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5180 Band edge

: 5G WIFI 11N20

		Freq						Limit Line		Remark	
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		-
		5145.859								•	
2		5149.980	10.14	32.40	30.84	56.75	68.45	74.00	-5.55	peak	
3	pp	5180.000	10.25	32.46	30.83	101.06	112.94	68.20	44.74	peak	



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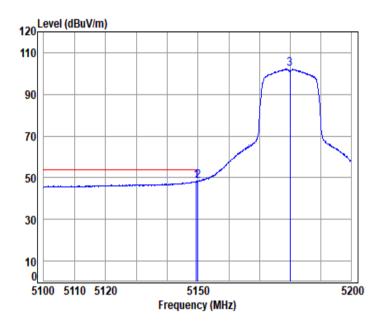


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11n_HT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	10.14	32.40	30.84	36.65	48.35	54.00	-5.65	Average
2 pp	5149.980	10.14	32.40	30.84	36.67	48.37	54.00	-5.63	Average
3	5180 000	10 25	32 46	30 83	90 20	102 08			Average



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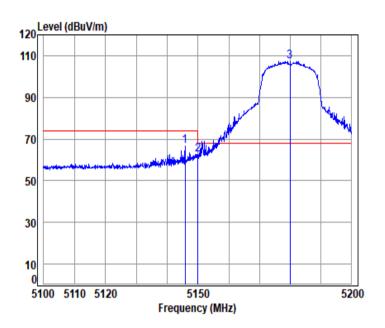


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11n_HT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

: 5180 Band edge

: 5G WIFI 11N20

. 50 11.1 11.120		
Cable Ant Preamp Read	Limit Over	
Freq Loss Factor Factor Level Level	Line Limit Remark	k
MHz dB dB/m dB dBuV dBuV/m	dBuV/m dB	
1 5145.859 10.12 32.39 30.84 54.92 66.59	74.00 -7.41 peak	
2 5149.980 10.14 32.40 30.84 51.02 62.72		
3 pp 5180.000 10.25 32.46 30.83 95.44 107.32	•	



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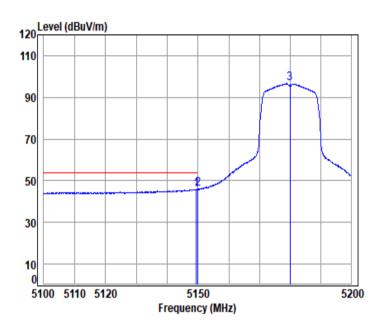


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11n_HT(20M)_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5180 Band edge

: 5G WIFI 11N20

Cable 0ver Ant Preamp Read Limit Loss Factor Factor Line Limit Remark Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 5149.458 10.14 32.40 30.84 34.15 45.85 54.00 -8.15 Average 2 pp 5149.980 10.14 32.40 30.84 34.49 46.19 54.00 -7.81 Average 5180.000 10.25 32.46 30.83 84.65 96.53 ----- Average



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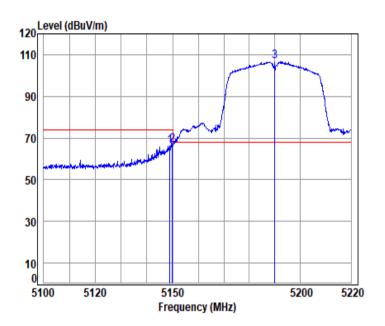


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11n_HT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5190 Band edge

· 5G WTET 11N/A

	. 50	MTLT	111140						
		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	5148.982	10.14	32.40	30.84	54.60	66.30	74.00	-7.70	peak
2	5149.980								
3 pp	5190.000	10.29	32.48	30.82	94.90	106.85	68.20	38.65	peak



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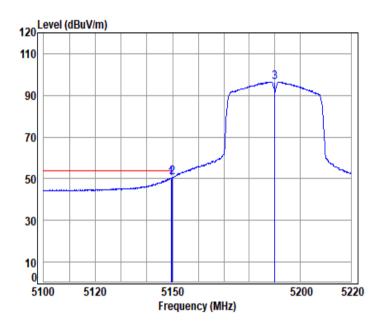


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11n_HT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5190 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor						
MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		_
5149.461								_	
p 5149.980 5190.000								_	



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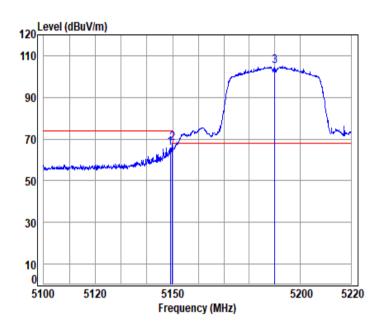


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11n_HT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.102	10.14	32.40	30.84	53.97	65.67	74.00	-8.33	peak
2	5149.980	10.14	32.40	30.84	56.45	68.15	74.00	-5.85	peak
3 pp	5190.000	10.29	32.48	30.82	92.81	104.76	68.20	36.56	peak



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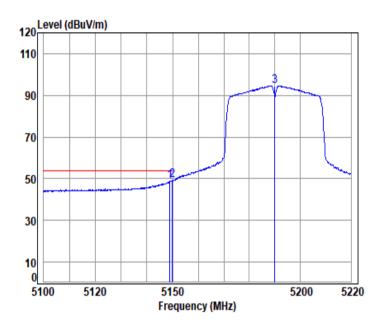


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11n_HT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5190 Band edge

· 5G WTET 11N40

	. 50	MTLT	111140						
		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 5	148.982	10.14	32.40	30.84	37.16	48.86	54.00	-5.14	Average
									Average
3 52	190.000	10.29	32.48	30.82	82.55	94.50			Average



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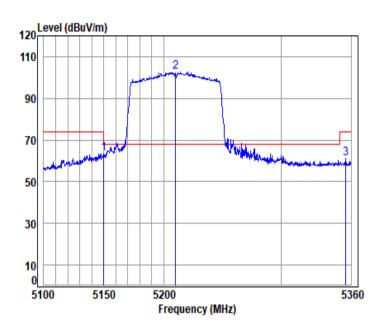


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11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5210 Band edge

: 5G WIFI 11AC80

		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	5149.690	10.14	32.40	30.84	51.85	63.55	74.00	-10.45	peak
	p 5210.000								
	5355.471								•



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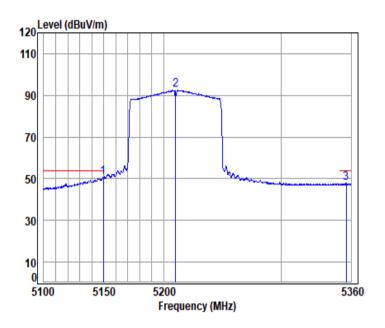


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11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5210 Band edge

: 5G WIFI 11AC80

			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	pp	5149.435	10.14	32.40	30.84	39.17	50.87	54.00	-3.13	Average	
2		5210.000	10.32	32.52	30.82	80.52	92.54			Average	
3		5356.004	10.47	32.80	30.76	35.27	47.78	54.00	-6.22	Average	



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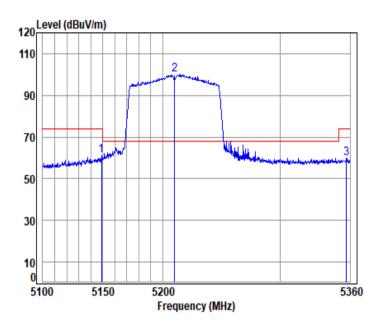


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11ac_VHT(80M)_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5210 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Level Level Line Limit Remark dB dB/m dBuV dBuV/m dBuV/m dB 5148.667 10.13 32.40 30.84 49.63 61.32 74.00 -12.68 peak 2 pp 5210.000 10.32 32.52 30.82 88.11 100.13 68.20 31.93 peak 5357.069 10.47 32.80 30.76 47.28 59.79 74.00 -14.21 peak



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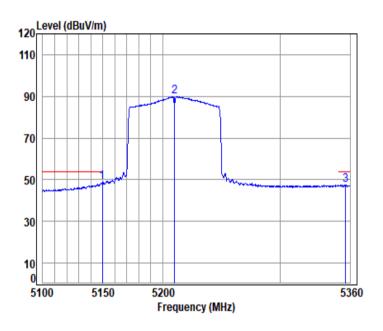


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11ac_VHT(80M)_TX_CH_42_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5210 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Line Limit Remark Level Level dB dB/m dBuV dBuV/m dBuV/m 1 pp 5149.435 10.14 32.40 30.84 37.06 48.76 54.00 -5.24 Average 5210.000 10.32 32.52 30.82 77.90 89.92 ----- Average 5356.270 10.47 32.80 30.76 35.02 47.53 54.00 -6.47 Average



3

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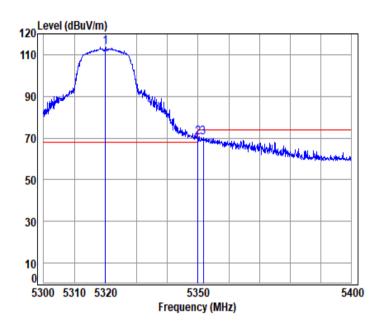


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11a_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5320 Band edge

· 5G WTFT 11A

			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	pp	5320.000	10.35	32.74	30.77	101.22	113.54	68.20	45.34	peak	
2		5350.020	10.45	32.80	30.76	57.86	70.35	74.00	-3.65	peak	
2		E2E1 667	10 16	22 90	20 76	E7 70	70 20	74 00	2 71	nook	



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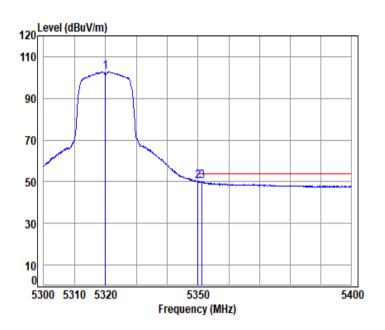


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11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

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		_
1	5320.000	10.35	32.74	30.77	90.54	102.86			Average	
2	pp 5350.020	10.45	32.80	30.76	37.54	50.03	54.00	-3.97	Average	
3	5351.267	10.45	32.80	30.76	37.51	50.00	54.00	-4.00	Average	



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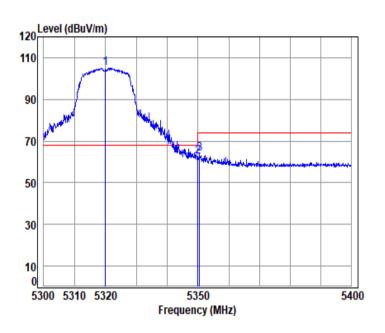


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11a_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5320 Band edge

: 5G WIFI 11A

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level dB dB/m dBuV dBuV/m dBuV/m 1 pp 5320.000 10.35 32.74 30.77 92.68 105.00 68.20 36.80 Peak 32.80 50.13 62.62 74.00 -11.38 Peak 5350.020 10.45 30.76

5350.566 10.45 32.80 30.76 51.48 63.97 74.00 -10.03 Peak



3

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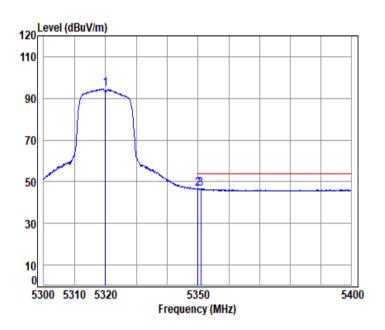


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11a_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL

Job No : 04092IT

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		_
1		5320.000	10.35	32.74	30.77	82.18	94.50			Average	
2	pp	5350.020	10.45	32.80	30.76	34.09	46.58	54.00	-7.42	Average	
3		5350.866	10.45	32.80	30.76	33.95	46.44	54.00	-7.56	Average	



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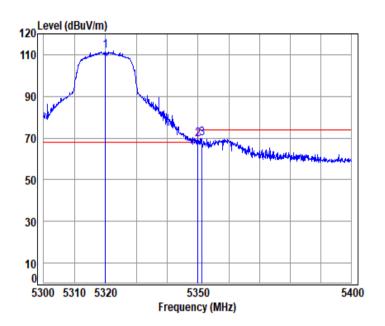


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11n_HT(20M)_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5320 Band edge

· 5G WTET 11N20

		MATIT	TINZO						
		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 pp	5320.000	10.35	32.74	30.77	99.42	111.74	68.20	43.54	peak
	5350.020								•
	5351.267								-



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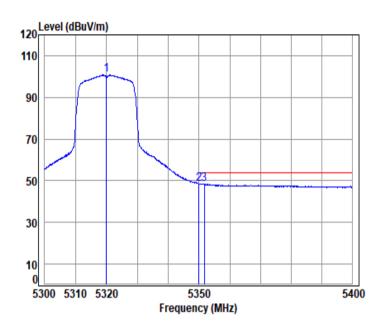


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11n_HT(20M)_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5320 Band edge

· 5G WTET 11N20

			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		
1		5320.000	10.35	32.74	30.77	88.54	100.86			Average	
2	pp	5350.020	10.45	32.80	30.76	36.09	48.58	54.00	-5.42	Average	
2		E2E1 767	10 16	22 90	20 76	36 04	10 E1	E4 00	E 16	Avanaga	



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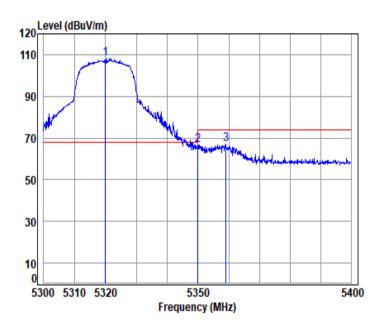


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11n_HT(20M)_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5320 Band edge

: 5G WIFI 11N20

Cable 0ver Ant Preamp Read Limit Loss Factor Factor Line Limit Remark Level Level dB dB/m dBuV dBuV/m dBuV/m 1 pp 5320.000 10.35 32.74 30.77 95.76 108.08 68.20 39.88 peak 10.45 32.80 30.76 54.28 66.77 5350.020 74.00 -7.23 peak 5359.074 10.48 32.80 30.76 54.48 67.00 74.00 -7.00 peak



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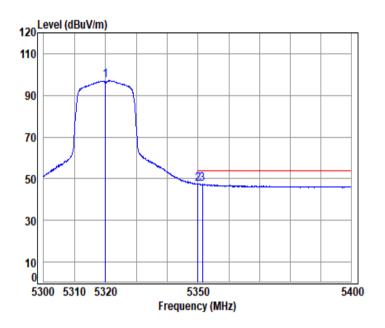


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11n_HT(20M)_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5320 Band edge

: 5G WIFI 11N20

			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		١
								-			
1		5320.000	10.35	32.74	30.77	84.71	97.03			Average	
2		5350.020	10.45	32.80	30.76	34.90	47.39	54.00	-6.61	Average	
3	pp	5351.467	10.45	32.80	30.76	35.04	47.53	54.00	-6.47	Average	



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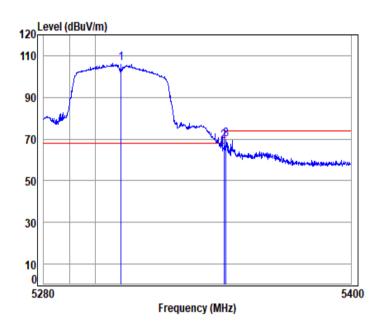


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11n_HT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5310 Band edge

: 5G WIFI 11N40

		Frea			Preamp Factor						
	_	<u> </u>									_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	5310.000	10.31	32.72	30.78	94.05	106.30	68.20	38.10	peak	
2		5350.020	10.45	32.80	30.76	56.45	68.94	74.00	-5.06	peak	
3		5350.955	10.45	32.80	30.76	57.20	69.69	74.00	-4.31	peak	



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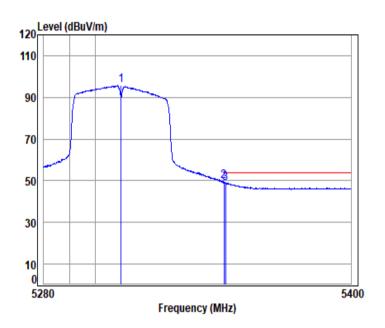


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11n_HT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5310 Band edge

: 5G WIFI 11N40

			Cahla	Δnt	Preamp	Read		limit	Over	
		Freq			Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5310.000	10.31	32.72	30.78	83.34	95.59			Average
2	pp	5350.020	10.45	32.80	30.76	37.05	49.54	54.00	-4.46	Average
3		5350.714	10.45	32.80	30.76	36.49	48.98	54.00	-5.02	Average



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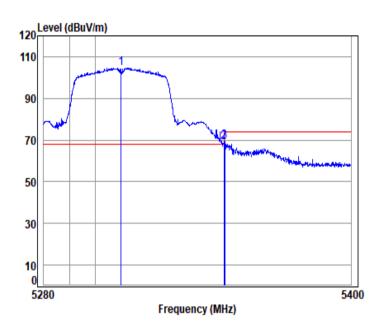


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11n_HT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5310 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5310.000	10.31	32.72	30.78	92.42	104.67	68.20	36.47	peak
2 5350.020	10.45	32.80	30.76	56.24	68.73	74.00	-5.27	peak
3 5350 /7/	10 /5	32 80	30 76	56 77	69 26	7/ 00	-/ 7/	neak



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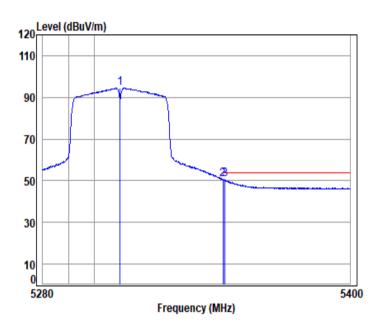


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11n_HT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5310 Band edge

: 5G WIFI 11N40

		Freq			Preamp Factor					Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
		5310.000	10.31	32.72	30.78	82.23	94.48			Average	
)	pp	5350.020	10.45	32.80	30.76	38.29	50.78	54.00	-3.22	Average	
,		5350.834	10.45	32.80	30.76	38.01	50.50	54.00	-3.50	Average	



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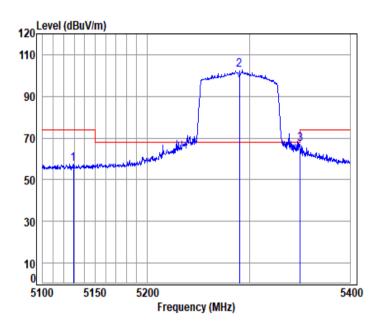


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11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5290 Band edge

· 5G WTET 11ΔC80

			MATLT	TIACOU							
			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		5129.234	10.06	32.36	30.85	45.75	57.32	74.00	-16.68	peak	
2	pp	5290.000	10.28	32.68	30.78	90.34	102.52	68.20	34.32	peak	
3		5350.229	10.45	32.80	30.76	54.60	67.09	74.00	-6.91	peak	



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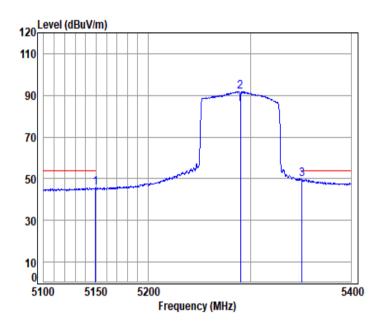


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11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

: 5290 Band edge Mode

: 5G WIFI 11AC80

			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		5149.503	10.14	32.40	30.84	33.83	45.53	54.00	-8.47	Average	
		5290.000								_	
										_	
3	gg	5351.146	10.45	32.80	30.76	37.32	49.81	54.00	-4.19	Average	



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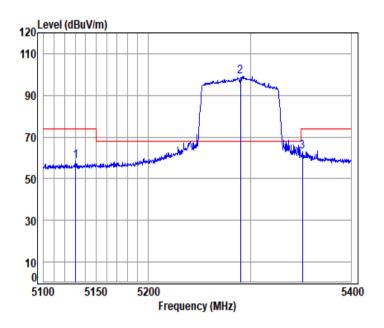


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11ac_VHT(80M)_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5290 Band edge

· 56 WIFT 11AC80

		. 50	MTLT	TIACOU							
			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		5130.407	10.07	32.36	30.85	46.69	58.27	74.00	-15.73	peak	
2	pp	5290.000	10.28	32.68	30.78	86.83	99.01	68.20	30.81	peak	
2		5351 /53	10 /5	32 80	30 76	50 61	62 12	74 00	10 97	nook	



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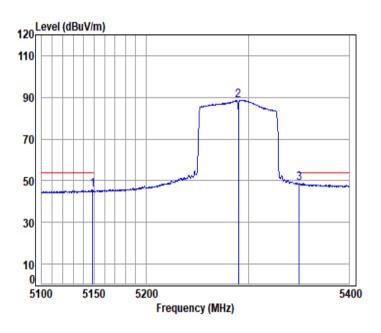


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11ac_VHT(80M)_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5290 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L	5148.621	10.13	32.40	30.84	33.82	45.51	54.00	-8.49	Average	
2	5290.000	10.28	32.68	30.78	76.52	88.70			Average	
2	nn 5350 229	10 /5	32 80	30 76	36 36	12 25	5/1 00	_5 15	Λυρρασρ	



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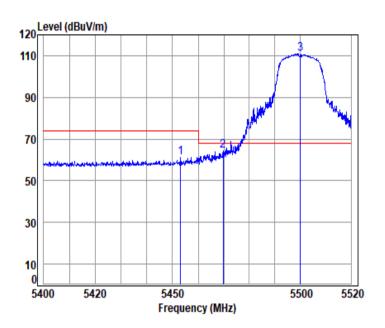


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11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5500 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5453.194								•
2 3 nn	5469.759 5500 000								•



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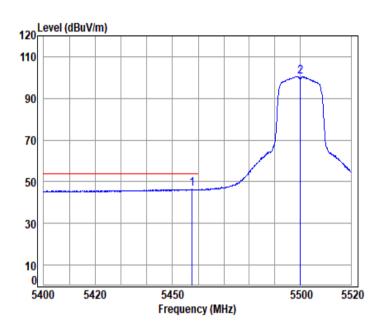


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11a_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5500 Band edge

: 5G WIFI 11A

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 5457.631 10.60 32.90 30.72 33.55 46.33 54.00 -7.67 Average

5500.000 10.58 32.90 30.70 87.72 100.50 ----- Average



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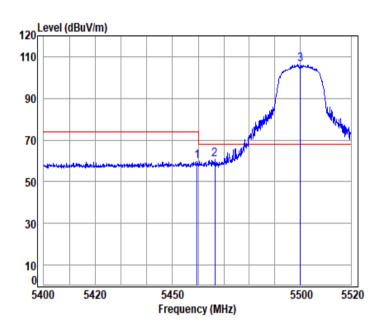


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11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5500 Band edge

· 5G WTFT 11A

	. 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	5459.550	10.60	32.90	30.72	46.92	59.70	74.00	-14.30	peak
2	5466.515								
_									•
3 pp	5500.000	10.58	32.90	30.70	93.51	106.29	68.20	38.09	peak



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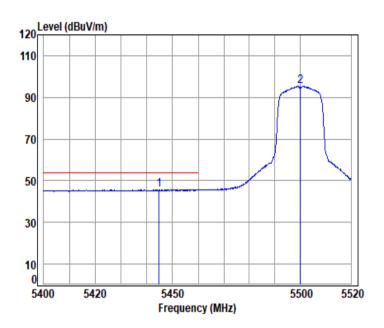


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11a_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5500 Band edge

: 5G WIFI 11A

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5444.811 10.60 32.89 30.72 33.04 45.81 54.00 -8.19 Average 5500.000 10.58 32.90 30.70 82.55 95.33 ----- Average



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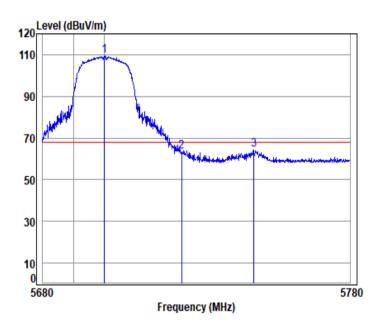


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11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

: 5700 Band edge Mode

: 5G WIFI 11A

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	op 5700.000	10.56	33.20	30.62	96.22	109.36	68.20	41.16	peak
2	5725.000	10.68	33.25	30.61	50.23	63.55	68.20	-4.65	peak
3	5748.512	10.78	33.30	30.60	50.85	64.33	68.20	-3.87	peak



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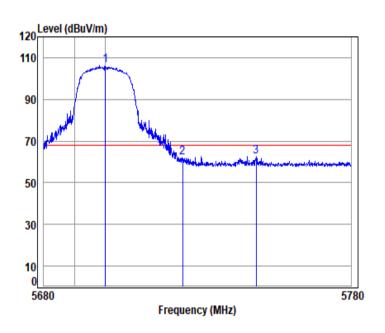


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11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5700 Band edge

· 5G WTFT 11A

			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	pp	5700.000	10.56	33.20	30.62	93.07	106.21	68.20	38.01	peak	
2		5725.000	10.68	33.25	30.61	48.80	62.12	68.20	-6.08	peak	
2		E7/10 01/1	10 70	22 20	30 60	40 12	62 61	69 20	E E0	nook	



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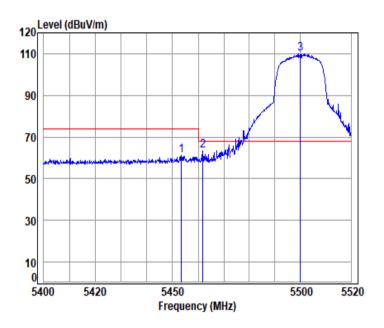


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11n_HT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5500 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5453.434	10.60	32.90	30.72	48.58	61.36	74.00	-12.64	peak
2		5461.831	10.60	32.90	30.72	50.69	63.47	68.20	-4.73	peak
3	pp	5500.000	10.58	32,90	30.70	97.13	109.91	68.20	41.71	peak



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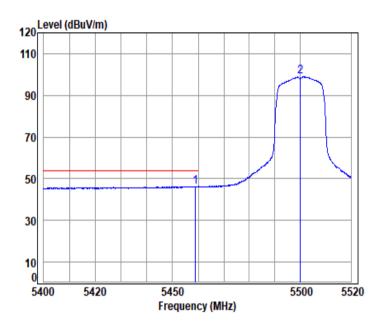


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11n_HT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5500 Band edge

: 5G WIFI 11N20

Cable 0ver Ant Preamp Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5458.950 10.60 32.90 30.72 33.50 46.28 54.00 -7.72 Average 5500.000 10.58 32.90 30.70 86.33 99.11 ----- Average



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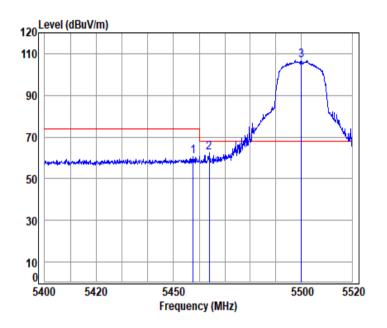


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11n_HT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5500 Band edge

· 5G WTET 11N20

	. 50	MTLT	TINZO						
		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	5457.631	10.60	32.90	30.72	48.08	60.86	74.00	-13.14	peak
2	5463.872								
2	 EE00 000								•



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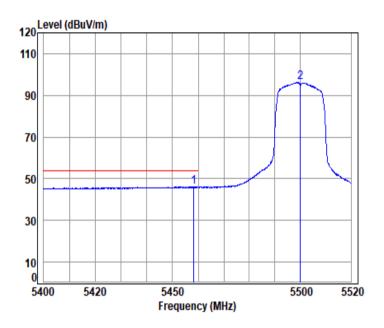


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11n_HT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5500 Band edge

: 5G WIFI 11N20

Cable 0ver Ant Preamp Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5458.230 10.60 32.90 30.72 33.27 46.05 54.00 -7.95 Average 5500.000 10.58 32.90 30.70 83.54 96.32 ----- Average



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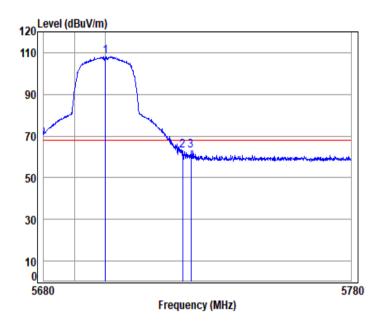


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11n_HT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5700 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	рр	5700.000	10.56	33.20	30.62	95.17	108.31	68.20	40.11	peak	
2		5725.000	10.68	33.25	30.61	49.73	63.05	68.20	-5.15	peak	
3		5727 682	10 69	33 26	30 61	49 77	63 11	68 20	-5 09	neak	



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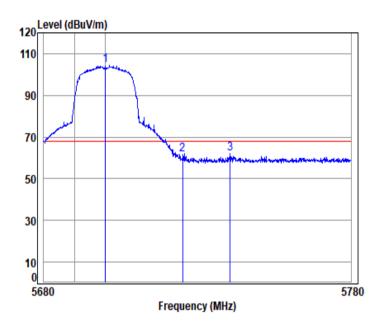


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11n_HT(20M)_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5700 Band edge

· 5G WTET 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	
1 pp	5700.000	10.56	33.20	30.62	91.18	104.32	68.20	36.12	peak
	5725.000								•
	5740.492								•



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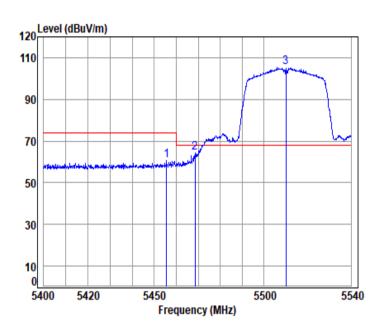


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11n_HT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5510 Band edge

: 5G WIFI 11N40

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5455.570	10.60	32.90	30.72	47.69	60.47	74.00	-13.53	peak
2		5468.572	10.59	32.90	30.71	51.40	64.18	68.20	-4.02	peak
3	pp	5510.000	10.56	32.90	30.70	92.53	105.29	68.20	37.09	peak



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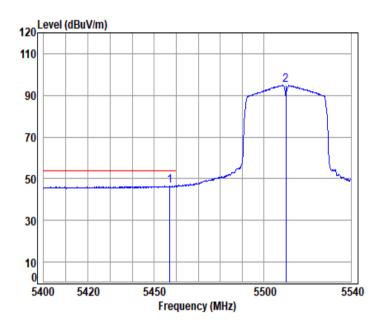


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11n_HT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5510 Band edge

: 5G WIFI 11N40

Cable 0ver Ant Preamp Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5456.967 10.60 32.90 30.72 33.68 46.46 54.00 -7.54 Average 5510.000 10.56 32.90 30.70 82.04 94.80 ----- Average



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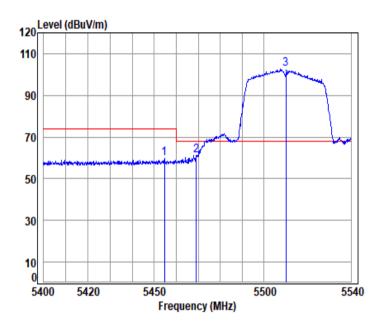


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11n_HT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5510 Band edge

: 5G WIFI 11N40

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5454.593	10.60	32.90	30.72	46.78	59.56	74.00	-14.44	peak
2		5468.992	10.59	32.90	30.71	48.45	61.23	68.20	-6.97	peak
3	nn	5510,000	10.56	32.90	30.70	89.81	102.57	68.20	34.37	peak



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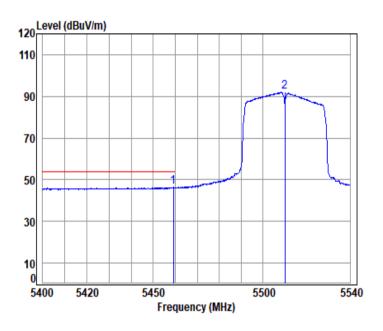


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11n_HT(40M)_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5510 Band edge

: 5G WIFI 11N40

Cable 0ver Ant Preamp Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5459.202 10.60 32.90 30.72 33.62 46.40 54.00 -7.60 Average 5510.000 10.56 32.90 30.70 79.19 91.95 ----- Average



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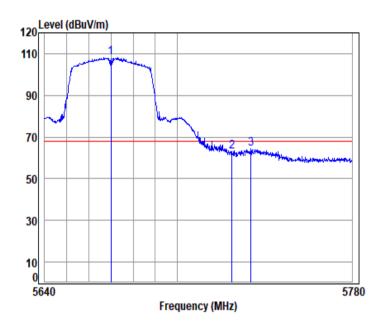


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11n_HT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5670 Band edge

· 5G WTET 11N40

			MTLT	111140						
			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	pp	5670.000	10.52	33.14	30.63	95.03	108.06	68.20	39.86	peak
2	•	5725.000	10.68	33.25	30.61	49.69	63.01	68.20	-5.19	peak
3		5733.561	10.71	33.27	30.61	50.85	64.22	68.20	-3.98	peak



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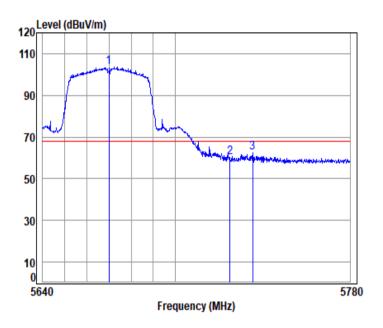


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11n_HT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5670 Band edge

: 5G WIFI 11N40

			****	TINTO							
			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	pp	5670.000	10.52	33.14	30.63	90.63	103.66	68.20	35.46	peak	
2		5725.000	10.68	33.25	30.61	46.95	60.27	68.20	-7.93	peak	
3		5735.389	10.72	33.27	30.61	49.20	62.58	68.20	-5.62	peak	



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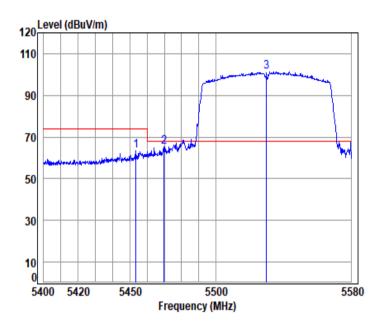


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11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5530 Band edge

: 5G WIFI 11AC80

			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		5453.561	10.60	32.90	30.72	50.49	63.27	74.00	-10.73	peak
2		5469.857	10.59	32.90	30.71	52.39	65.17	68.20	-3.03	peak
3	ממ	5530.000	10.53	32.90	30.69	88.68	101.42	68.20	33.22	peak



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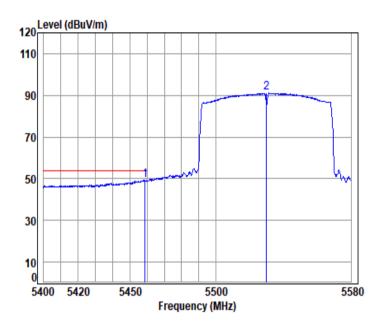


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11ac_VHT(80M)_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5530 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5458.749 10.60 32.90 30.72 36.49 49.27 54.00 -4.73 Average 5530.000 10.53 32.90 30.69 78.31 91.05 ----- Average



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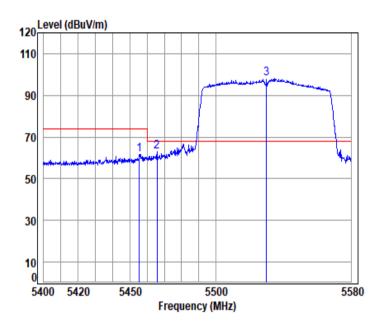


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11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5530 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Line Limit Remark Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 5455.349 10.60 32.90 30.72 48.93 61.71 74.00 -12.29 peak 5465.734 10.59 32.90 30.71 50.25 63.03 68.20 -5.17 peak

3 pp 5530.000 10.53 32.90 30.69 85.15 97.89 68.20 29.69 peak



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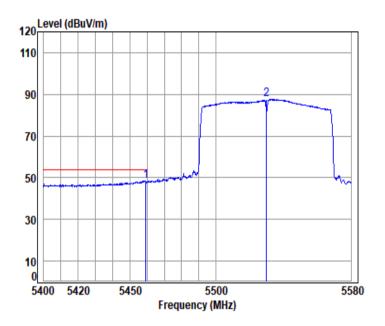


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11ac_VHT(80M)_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5530 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 pp 5459.286 10.60 32.90 30.72 35.63 48.41 54.00 -5.59 Average 5530.000 10.53 32.90 30.69 74.82 87.56 ----- Average



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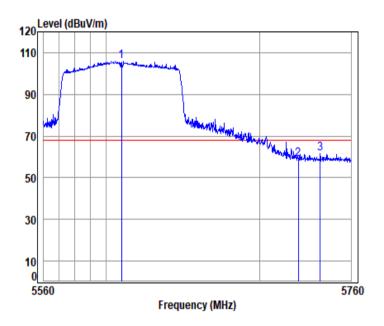


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11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5610 Band edge

: 5G WIFI 11AC80

			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	pp	5610.000	10.43	33.02	30.66	93.28	106.07	68.20	37.87	peak	
		5725.095									
		5739.681									



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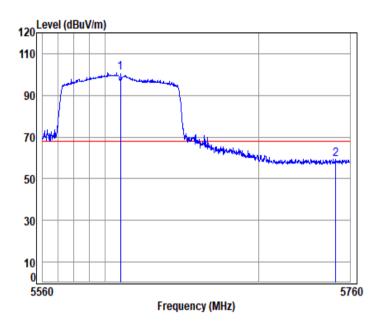


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11ac_VHT(80M)_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5610 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB

1 pp 5610.000 10.43 33.02 30.66 87.93 100.72 68.20 32.52 peak 5750.644 10.79 33.30 30.60 46.02 59.51 68.20 -8.69 peak



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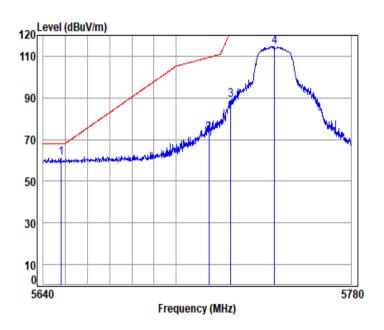


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11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5745 Band edge

: 5GWIFI 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	pp	5648.026	10.48	33.10	30.64	48.40	61.34	68.20	-6.86	peak
2		5715.000	10.63	33.23	30.61	59.81	73.06	109.40	-36.34	peak
3		5725.000	10.68	33.25	30.61	75.66	88.98	122.20	-33.22	peak
1		5745 000	10 77	33 29	30 60	101 01	114 47			neak



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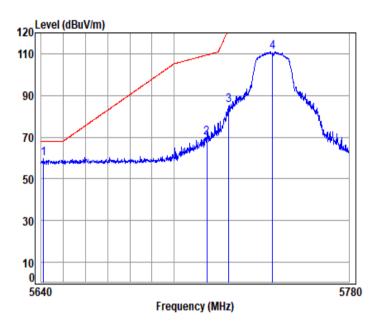


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11a TX CH 149 Vertical



Condition: 3m VERTICAL Job No : 04092IT

: 5745 Band edge Mode

: 5GWIFI 11A

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m dB dB/m dB 1 pp 5640.968 10.47 33.08 30.64 46.66 59.57 68.20 -8.63 peak 5715.000 10.63 33.23 30.61 56.57 69.82 109.40 -39.58 peak 5725.000 10.68 33.25 30.61 71.91 85.23 122.20 -36.97 peak 5745.000 10.77 33.29 30.60 97.48 110.94 ----- peak



3

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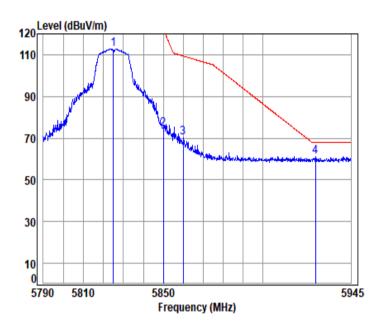


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11a TX CH 165 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5825 Band edge

· 5GWTFT 11A

		. 500		_						
			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		5825.000	10.99	33.50	30.57	98.99	112.91			peak
2		5850.000	10.95	33.60	30.56	60.34	74.33	122.20	-47.87	peak
3		5860.000	10.94	33.58	30.56	56.22	70.18	109.40	-39.22	peak
4	nn	5926 966	10 87	33 55	30 53	47 15	61 04	68 20	-7 16	neak



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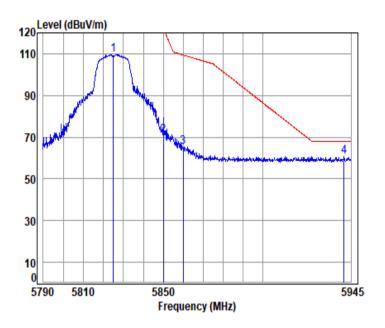


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11a_TX_CH_165_Vertical



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5825 Band edge

: 5GWIFI 11A

		. 500		_						
			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		5825.000	10.99	33.50	30.57	95.75	109.67			peak
2		5850.000	10.95	33.60	30.56	56.90	70.89	122.20	-51.31	peak
3		5860.000	10.94	33.58	30.56	51.39	65.35	109.40	-44.05	peak
Л	nn	59/1 5/6	10 86	33 58	30 52	46 61	60 53	68 20	-7 67	nook



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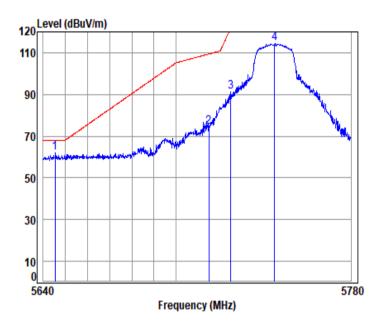


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11n HT(20M) TX CH 149 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5745 Band edge

: 5GWIFI 11N20

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5645.396								•
2	5715.000	10.63	33.23	30.61	60.92	74.17	109.40	-35.23	peak
3	5725.000	10.68	33.25	30.61	77.97	91.29	122.20	-30.91	peak
4	5745.000	10.77	33.29	30.60	100.94	114.40			peak



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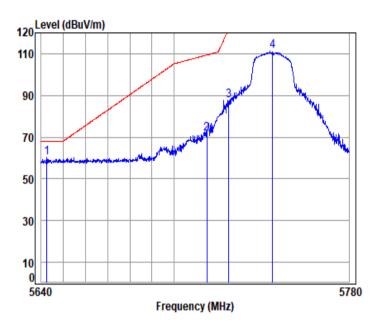


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11n_HT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5745 Band edge

: 5GWIFI 11N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m dB/m dB 1 pp 5642.490 10.47 33.08 30.64 47.39 60.30 68.20 -7.90 peak 5715.000 10.63 33.23 30.61 58.29 71.54 109.40 -37.86 peak 3 5725.000 10.68 33.25 30.61 74.07 87.39 122.20 -34.81 peak 5745.000 10.77 33.29 30.60 97.67 111.13 ----- peak



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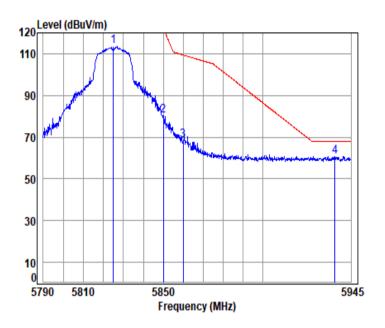


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11n HT(20M) TX CH 165 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5825 Band edge

: 5GWIFI 11N20

			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		5825.000	10.99	33.50	30.57	99.57	113.49			peak
2		5850.000	10.95	33.60	30.56	66.21	80.20	122.20	-42.00	peak
3		5860.000	10.94	33.58	30.56	54.40	68.36	109.40	-41.04	peak
4	pp	5936.839	10.86	33.57	30.53	46.88	60.78	68.20	-7.42	peak



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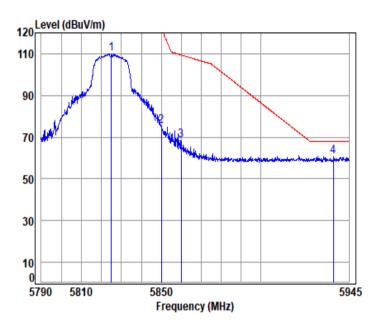


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11n HT(20M) TX CH 165 Vertical



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5825 Band edge

· 5GWTFT 11N20

		. 500		1120						
			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		5825.000	10.99	33.50	30.57	96.07	109.99			peak
2		5850.000	10.95	33.60	30.56	61.25	75.24	122.20	-46.96	peak
3		5860.000	10.94	33.58	30.56	54.37	68.33	109.40	-41.07	peak
Δ	nn	5937 152	10 86	33 57	30 53	46 93	60 83	68 20	-7 37	neak



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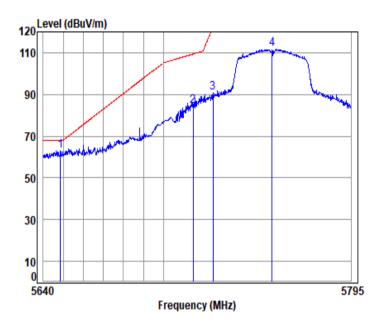


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11n HT(40M) TX CH 151 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

1 2 3

Mode : 5755 Band edge

: 5GWIFI 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		
	pp	5648.569	10.48	33.10	30.64	50.03	62.97	68.20	-5.23	peak	
		5715.000	10.63	33.23	30.61	71.16	84.41	109.40	-24.99	peak	
		5725.000	10.68	33.25	30.61	77.58	90.90	122.20	-31.30	peak	
ļ		5755.000	10.81	33.31	30.60	98.38	111.90			peak	



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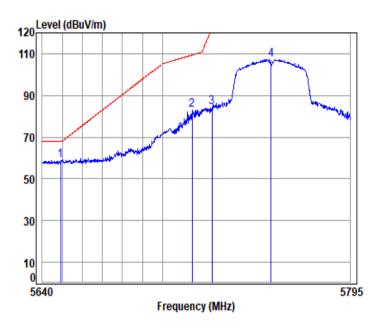


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11n HT(40M) TX CH 151 Vertical



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5755 Band edge

: 5GWIFI 11N40

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
. pp	5649.182	10.48	33.10	30.64	46.08	59.02	68.20	-9.18	peak
	5715.000	10.63	33.23	30.61	69.60	82.85	109.40	-26.55	peak
	5725.000	10.68	33.25	30.61	71.06	84.38	122.20	-37.82	peak
	5755.000	10.81	33.31	30.60	93.78	107.30			peak



1 2 3

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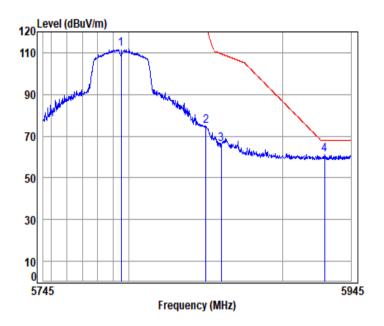


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11n HT(40M) TX CH 159 Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5795 Band edge

: 5GWIFI 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	
5795.000	11.00	33.39	30.58	97.90	111.71			peak
5850.000	10.95	33.60	30.56	60.86	74.85	122.20	-47.35	peak
5860.000	10.94	33.58	30.56	52.09	66.05	109.40	-43.35	peak
	MHz 5795.000 5850.000 5860.000	Freq Loss MHz dB 5795.000 11.00 5850.000 10.95 5860.000 10.94	Freq Loss Factor MHz dB dB/m 5795.000 11.00 33.39 5850.000 10.95 33.60 5860.000 10.94 33.58	Freq Loss Factor Factor MHz dB dB/m dB 5795.000 11.00 33.39 30.58 5850.000 10.95 33.60 30.56 5860.000 10.94 33.58 30.56	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5795.000 11.00 33.39 30.58 97.90 5850.000 10.95 33.60 30.56 60.86 5860.000 10.94 33.58 30.56 52.09	Freq Loss Factor Factor Level Level Level Level MHz dB dB/m dB dBuV dBuV/m 5795.000 11.00 33.39 30.58 97.90 111.71 5850.000 10.95 33.60 30.56 60.86 74.85 5860.000 10.94 33.58 30.56 52.09 66.05	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 5795.000 11.00 33.39 30.58 97.90 111.71 5850.000 10.95 33.60 30.56 60.86 74.85 122.20 5860.000 10.94 33.58 30.56 52.09 66.05 109.40	Cable Freq Ant Preamp Loss Factor Factor Read Level Level Line Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 5795.000 11.00 33.39 30.58 97.90 111.71



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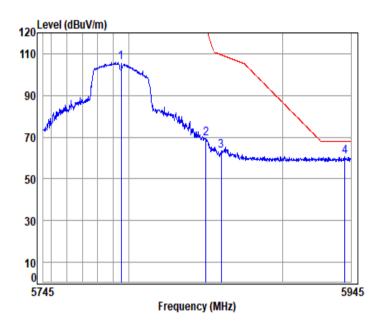


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11n HT(40M) TX CH 159 Vertical



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5795 Band edge

: 5GWTFT 11N40

	1 341111 11110								
		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	5795.000	11.00	33.39	30.58	92.18	105.99			peak
2	5850.000	10.95	33.60	30.56	55.40	69.39	122.20	-52.81	peak
3	5860.000	10.94	33.58	30.56	49.59	63.55	109.40	-45.85	peak
	pp 5940.933								-



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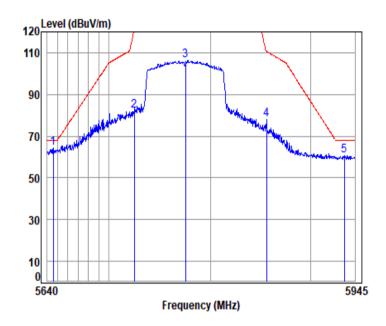


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11ac_VHT(80M)_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5775 Band edge

: 5GWIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5645.646								
	5724.691 5775.000								•
	5855.815								•
5	5934.364	10.86	33.57	30.53	46.89	60.79	68.20	-7.41	peak



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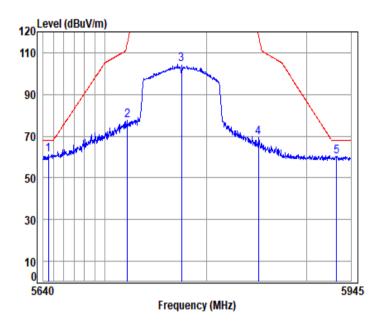


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11ac VHT(80M) TX CH 155 Vertical



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5775 Band edge

: 5GWIFI 11AC80

		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 pp	5645.052	10.48	33.09	30.64	48.05	60.98	68.20	-7.22	Peak
2	5721.979	10.66	33.24	30.61	64.41	77.70	115.31	-37.61	peak
3	5775.000	10.91	33.35	30.59	90.62	104.29			peak
4	5851.808	10.95	33.60	30.56	55.26	69.25	118.08	-48.83	peak
5	5930.615	10.87	33.56	30.53	46.41	60.31	68.20	-7.89	peak



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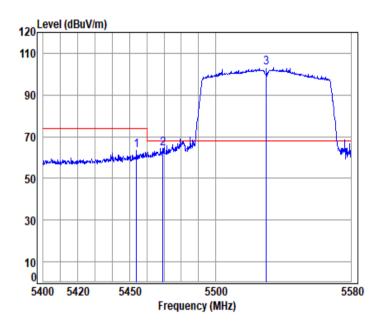
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Test on the worst case(Sample2#):

11ac VHT(80M) TX CH 106 Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dB 5453.918 10.60 32.90 30.72 50.51 63.29 74.00 -10.71 peak 5469.319 10.59 32.90 30.71 51.52 64.30 68.20 -3.90 peak

3 pp 5530.000 10.53 32.90 30.69 90.26 103.00 68.20 34.80 peak



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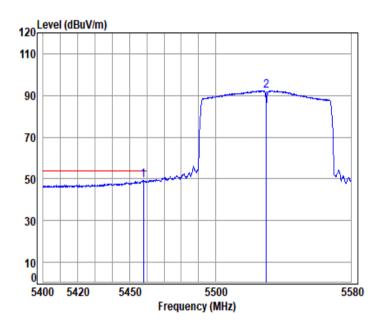


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11ac VHT(80M) TX CH 106 Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04092IT

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq

dBuV dBuV/m dBuV/m dB dB/m dB

1 pp 5458.033 10.60 32.90 30.72 36.45 49.23 54.00 -4.77 Average 5530.000 10.53 32.90 30.69 79.49 92.23 ----- Average



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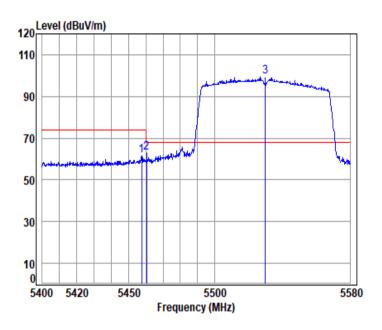


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11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 5457.496 10.60 32.90 30.72 49.03 61.81 74.00 -12.19 peak 5460.539 10.60 32.90 30.72 50.14 62.92 68.20 -5.28 peak 3 pp 5530.000 10.53 32.90 30.69 86.73 99.47 68.20 31.27 peak



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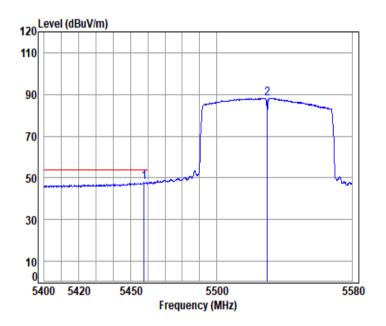


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11ac VHT(80M) TX CH 106 Vertical-Avq



Condition: 3m VERTICAL Job No : 04092IT

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq

dBuV dBuV/m dBuV/m dB dB/m dB

1 pp 5457.675 10.60 32.90 30.72 35.05 47.83 54.00 -6.17 Average 5530.000 10.53 32.90 30.69 75.52 88.26 ----- Average



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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: 24.7 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar



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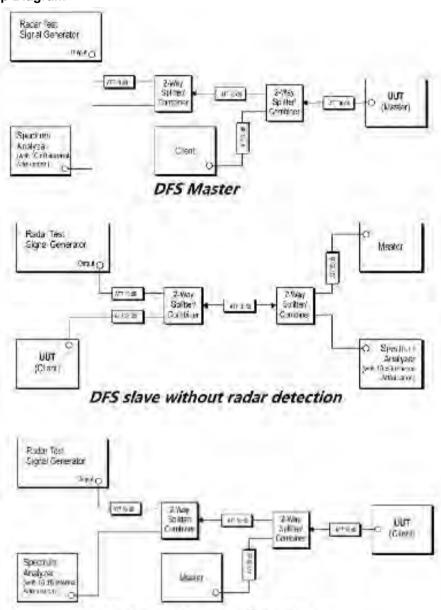
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7.6.2 Test Mode Description

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: 24.7 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

	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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				



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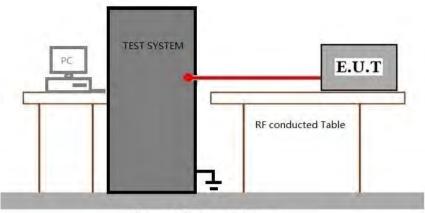
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7.7.3 Test Setup Diagram



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: 24.7 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

	7.0.2 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				



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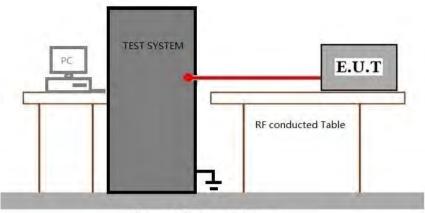
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7.8.3 Test Setup Diagram



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: 24.7 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

	7.3.2 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				



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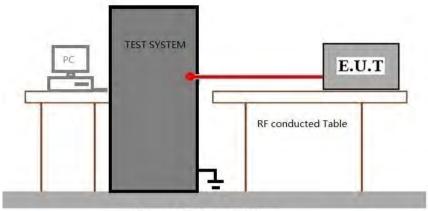
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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

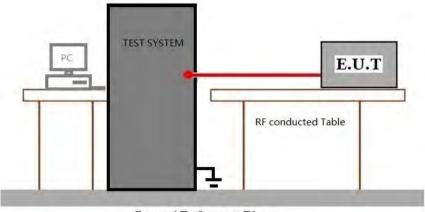
Operating Environment:

24.7 °C Temperature: Humidity: 47.1 % 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



Ground Reference Plane

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		
5150-5250		≤17dBm in 1MHz for master device		
5150-5	0250	≤11dBm in 1MHz for client device		
5250-5	350	≤11dBm in 1MHz for client device		
5470-5	725	≤11dBm in 1MHz for client device		
5725-5	850	≤30dBm in 500 kHz		
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment und test.			

7.11.1 E.U.T. Operation

Operating Environment:

24.7 °C Temperature: Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.11.2 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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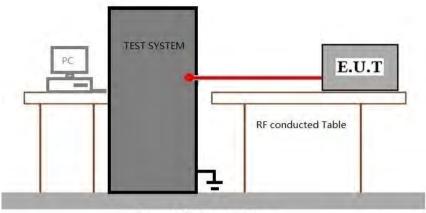
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7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

Limit:

Frequency band(MHz)		Limit		
5150-5250		≤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		
5725-5	850	≤30dBm in 500 kHz		
Remark:	The maximum power spectral density is measured as a conducted emissio by direct connection of a calibrated test instrument to the equipment under test.			

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

7.12.2 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, 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 and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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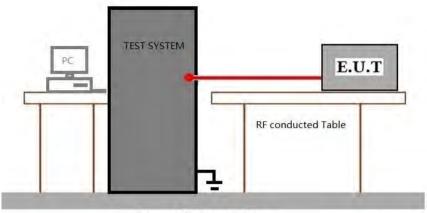


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7.12.3 Test Setup Diagram



Ground Reference Plane

7.12.4 Measurement Procedure and Data

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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	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: 24.7 °C Atmospheric Pressure: 1020 mbar Humidity: 47.1 % RH



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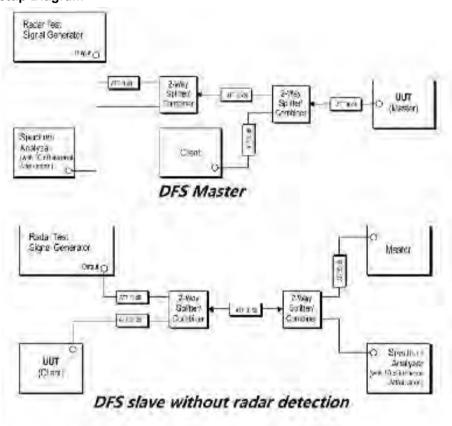
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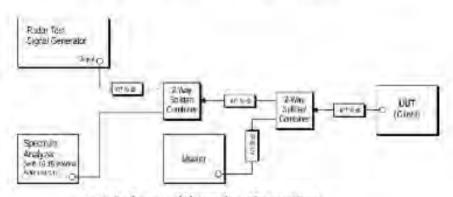
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7.13.2 Test Mode Description

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

7.13.3 Test Setup Diagram





DFS slave with radar detection



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7.13.4 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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7.14 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	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: 24.7 °C Atmospheric Pressure: 1020 mbar Humidity: 47.1 % RH



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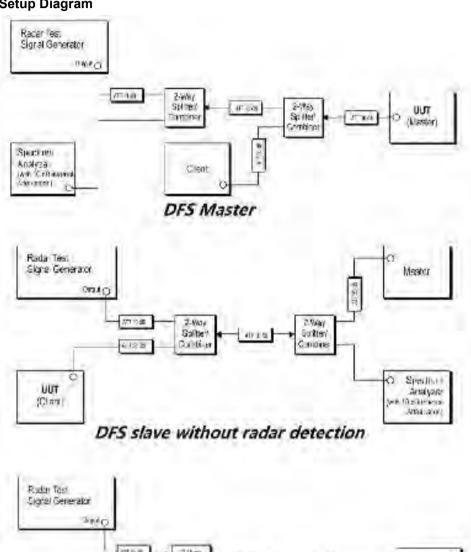
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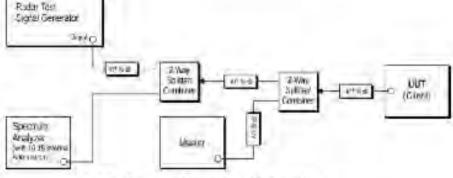
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7.14.2 Test Mode Description

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





DFS slave with radar detection



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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 SZCR2411004092 Appendix Setup Photo.

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

Please refer to SZCR2411004092 Appendix External Photo and Internal Photo.



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	1.392	1.428	97.48	0.11	0.03
		5200	1.394	1.428	97.62	0.10	0.03
		5240	1.394	1.428	97.62	0.10	0.03
		5260	1.393	1.428	97.55	0.11	0.03
		5300	1.393	1.428	97.55	0.11	0.07
802.11a	SISO	5320	1.393	1.428	97.55	0.11	0.03
002.11a	3130	5500	1.393	1.428	97.55	0.11	0.06
		5580	1.394	1.428	97.62	0.10	0.03
		5700	1.393	1.428	97.55	0.11	0.03
		5745	1.394	1.428	97.62	0.10	0.06
		5785	1.393	1.427	97.62	0.10	0.03
		5825	1.392	1.428	97.48	0.11	0.00
		5180	1.302	1.336	97.46	0.11	0.07
		5200	1.302	1.336	97.46	0.11	0.03
		5240	1.301	1.336	97.38	0.12	0.07
		5260	1.300	1.335	97.38	0.12	0.03
		5300	1.301	1.336	97.38	0.12	0.07
802.11n	SISO	5320	1.300	1.336	97.31	0.12	0.07
(HT20)	3130	5500	1.301	1.336	97.38	0.12	0.10
		5580	1.303	1.336	97.53	0.11	0.03
		5700	1.301	1.336	97.38	0.12	0.00
		5745	1.302	1.336	97.46	0.11	0.07
		5785	1.302	1.336	97.46	0.11	0.03
		5825	1.300	1.335	97.38	0.12	0.00
		5190	0.649	0.683	95.02	0.22	0.04
		5230	0.649	0.683	95.02	0.22	0.07
802.11n		5270	0.650	0.683	95.17	0.22	0.07
(HT40)	SISO	5310	0.649	0.683	95.02	0.22	0.03
(11140)		5510	0.650	0.684	95.03	0.22	0.06
		5550	0.649	0.684	94.88	0.23	0.10
		5670	0.649	0.683	95.02	0.22	0.06



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		5755	0.649	0.683	95.02	0.22	0.06
		5795	0.649	0.683	95.02	0.22	0.06
		5180	1.312	1.348	97.33	0.12	0.00
		5200	1.312	1.347	97.40	0.11	0.00
		5240	1.313	1.348	97.40	0.11	0.03
		5260	1.313	1.349	97.33	0.12	0.10
		5300	1.312	1.348	97.33	0.12	0.03
802.11ac	SISO	5320	1.312	1.348	97.33	0.12	0.04
(VHT20)	3130	5500	1.313	1.348	97.40	0.11	0.00
		5580	1.312	1.348	97.33	0.12	0.03
		5700	1.312	1.347	97.40	0.11	0.00
		5745	1.312	1.348	97.33	0.12	0.03
		5785	1.312	1.347	97.40	0.11	0.00
		5825	1.313	1.348	97.40	0.11	0.03
		5190	0.654	0.688	95.06	0.22	0.07
		5230	0.654	0.687	95.20	0.21	0.03
		5270	0.653	0.687	95.05	0.22	0.10
902 1100	SISO	5310	0.653	0.687	95.05	0.22	0.07
802.11ac (VHT40)		5510	0.653	0.687	95.05	0.22	0.10
(11140)		5550	0.653	0.687	95.05	0.22	0.10
		5670	0.653	0.687	95.05	0.22	0.07
		5755	0.653	0.687	95.05	0.22	0.07
		5795	0.653	0.687	95.05	0.22	0.10
		5210	0.325	0.358	90.78	0.42	0.07
802.11ac		5290	0.325	0.359	90.53	0.43	0.10
(VHT80)	SISO	5530	0.325	0.359	90.53	0.43	0.14
(11100)		5610	0.325	0.359	90.53	0.43	0.10
		5775	0.325	0.359	90.53	0.43	0.10



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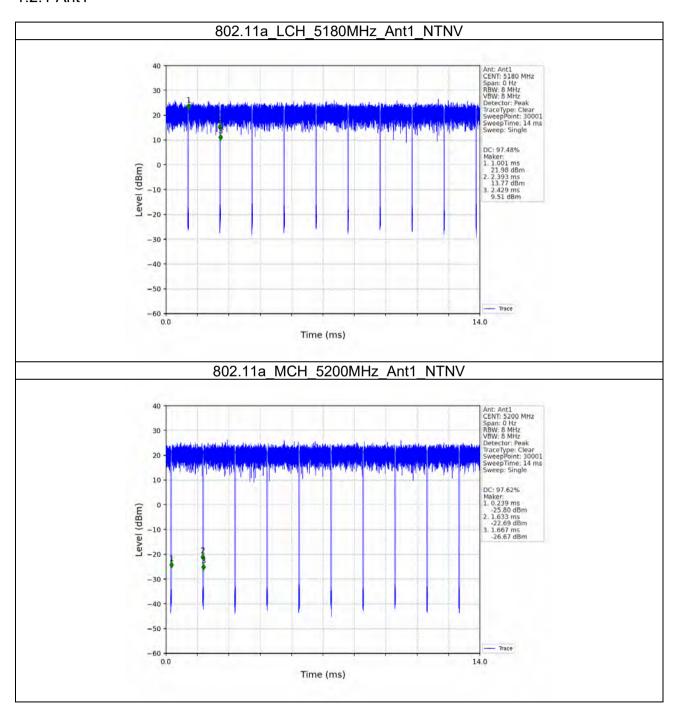
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1.2 Test Graph

1.2.1 Ant1





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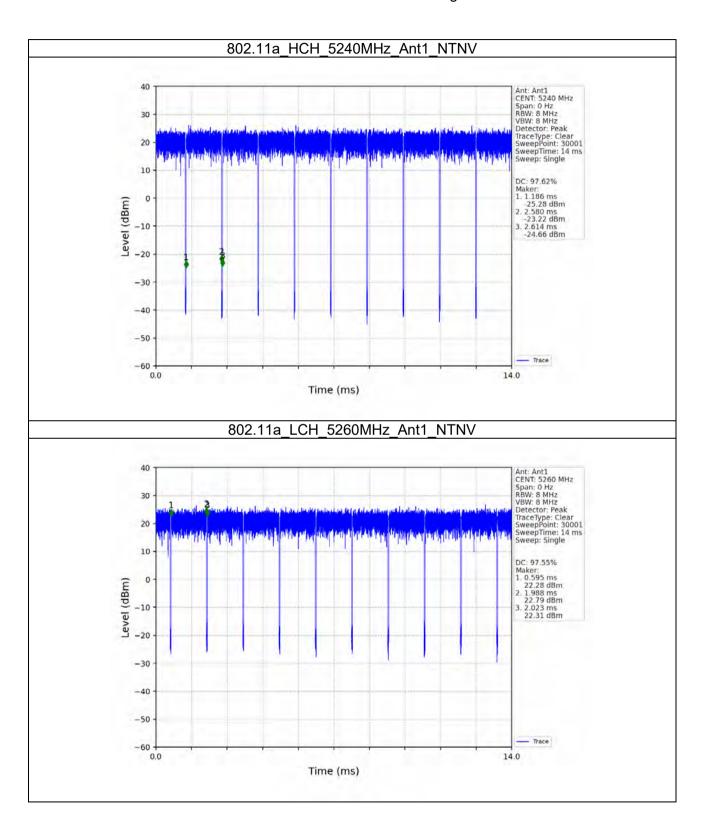
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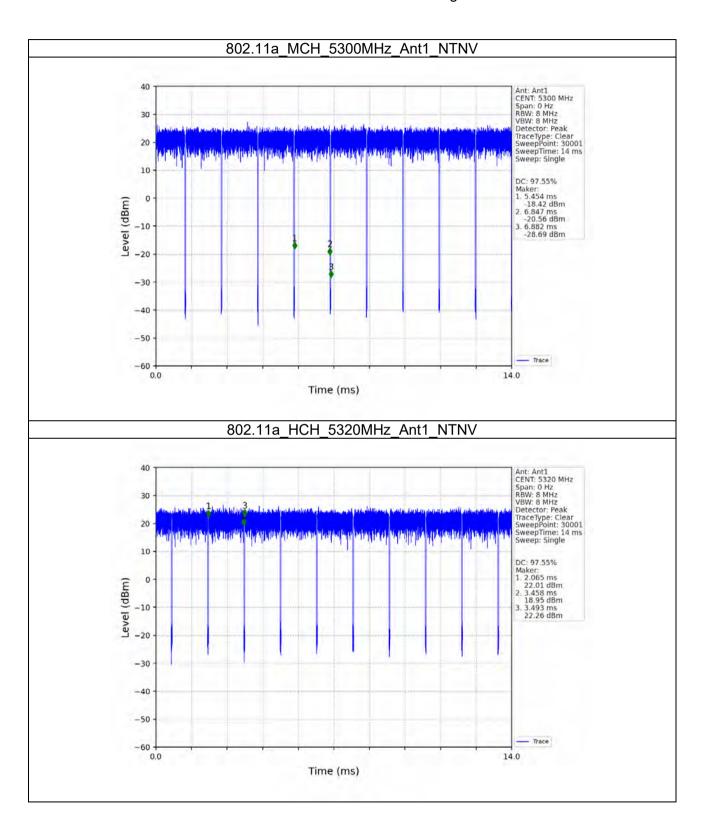
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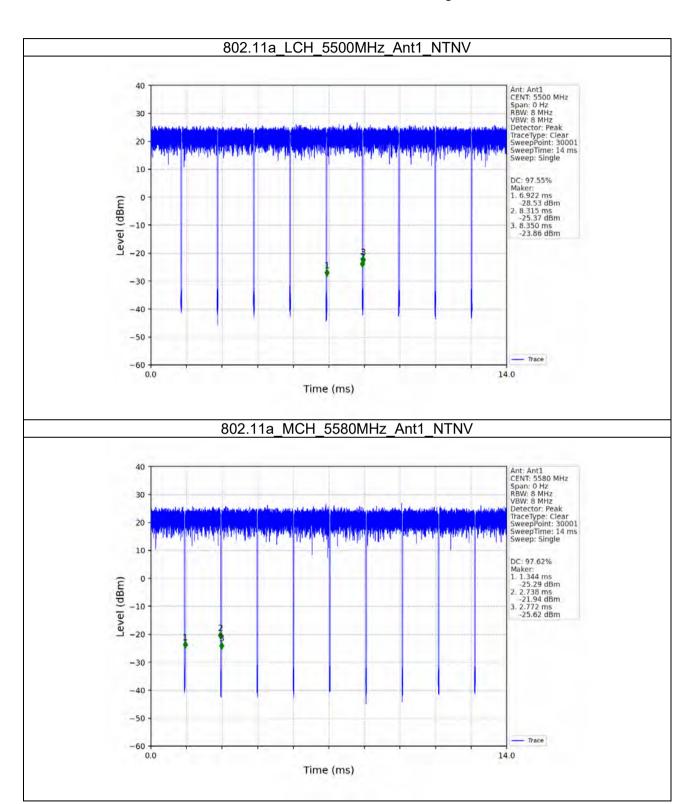
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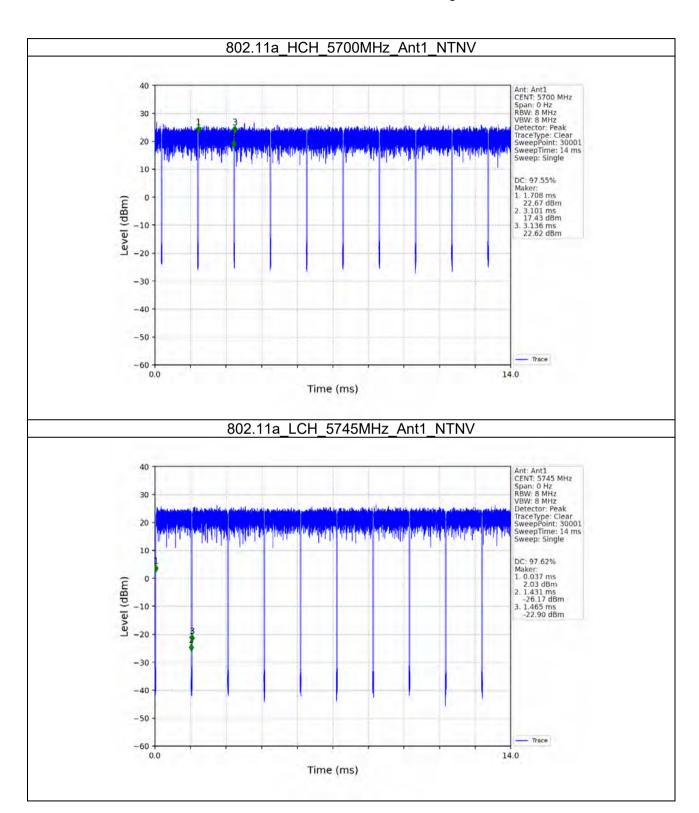
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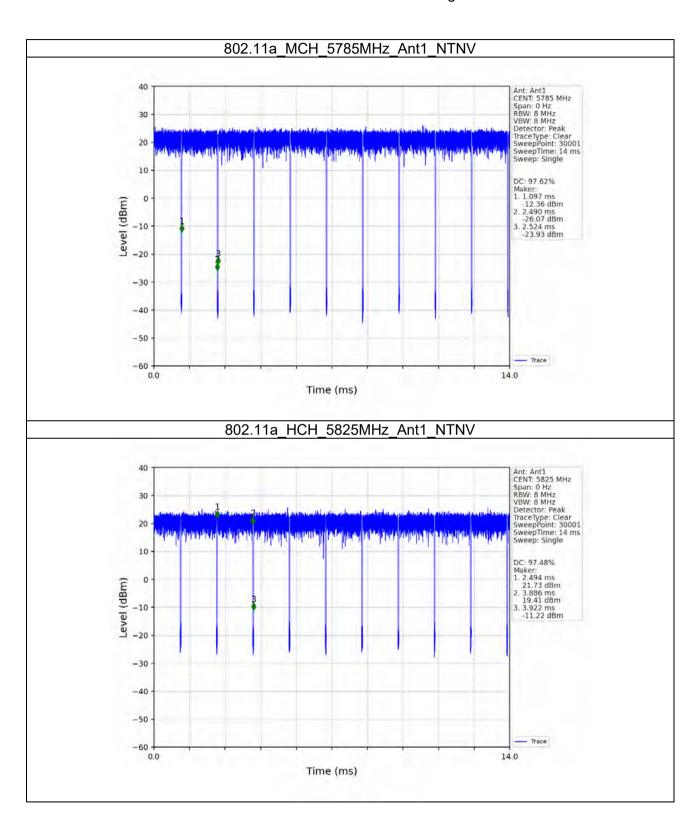
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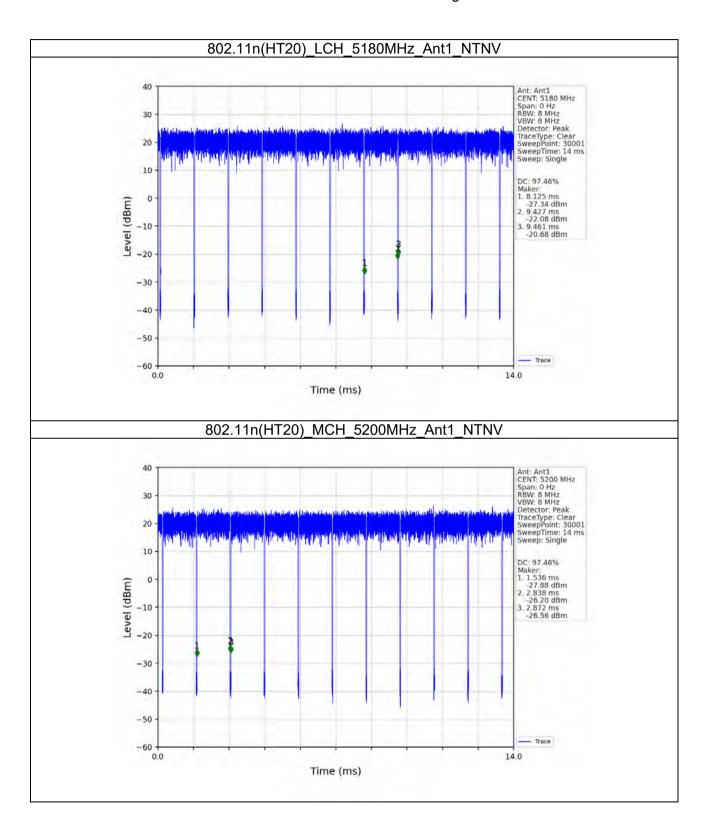
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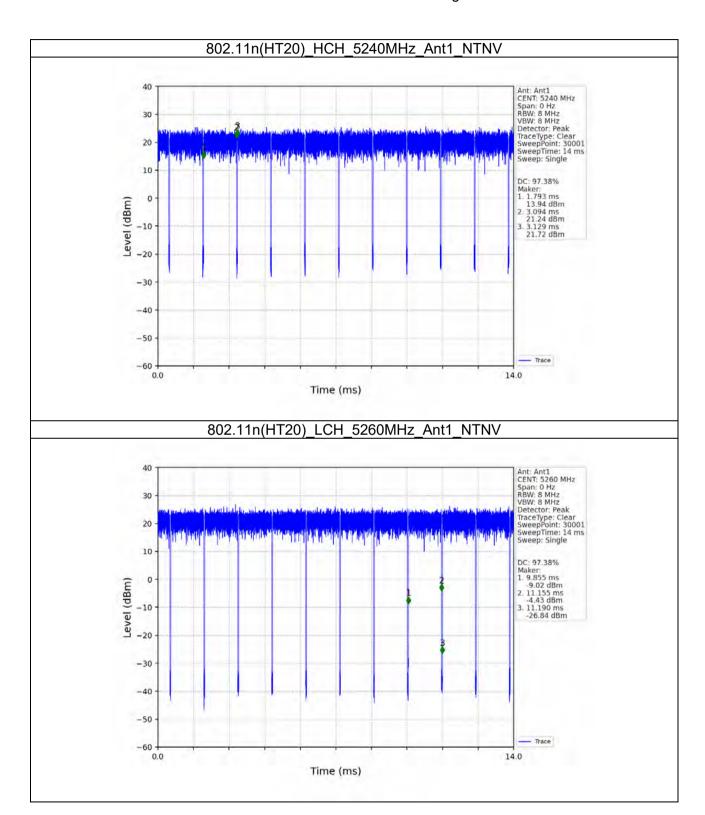
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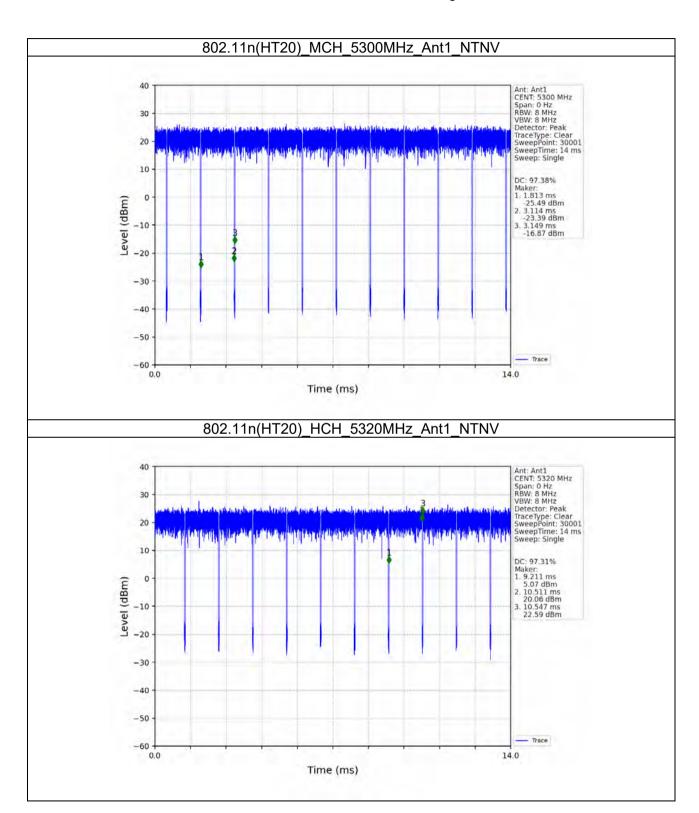
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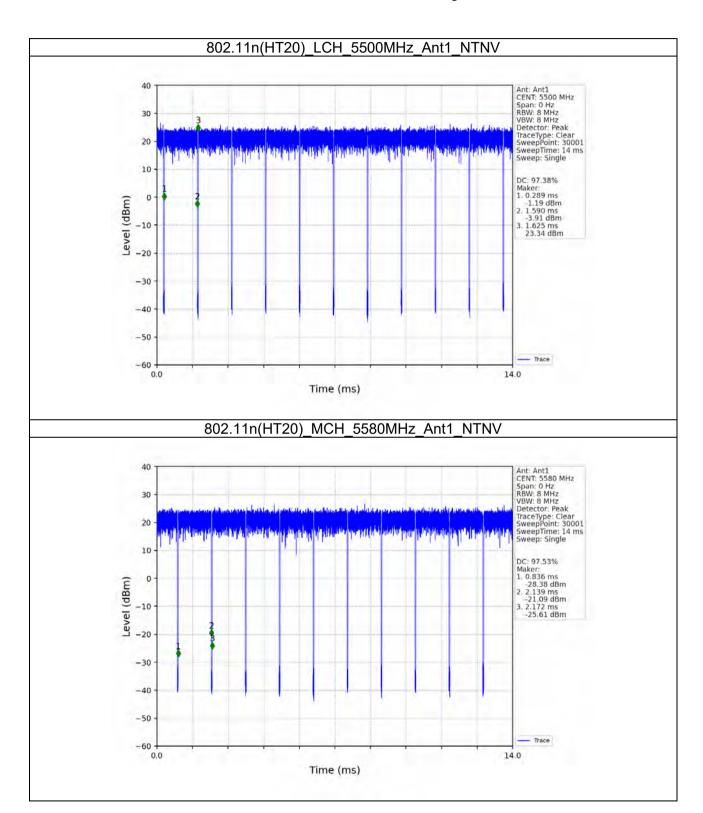
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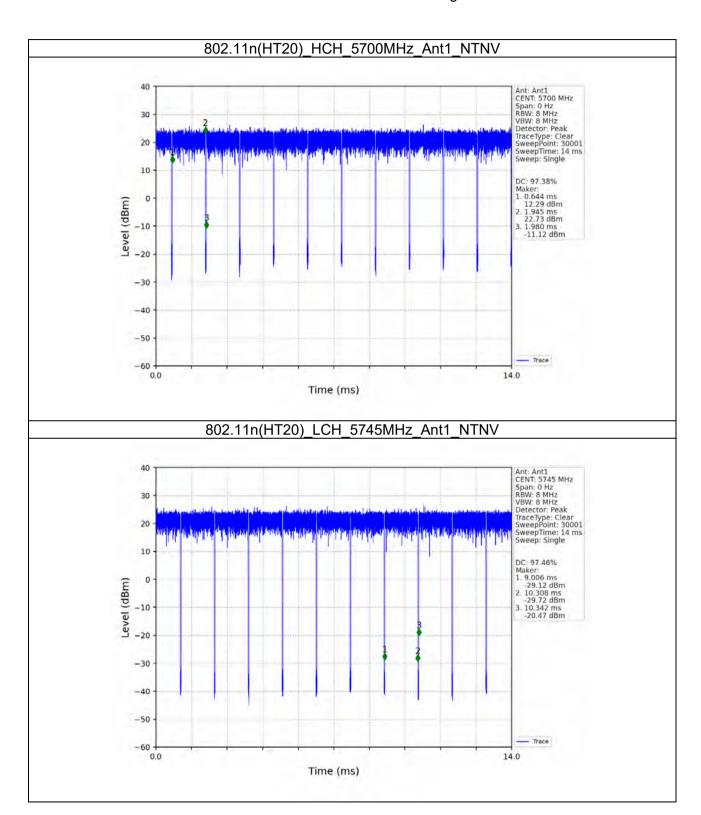
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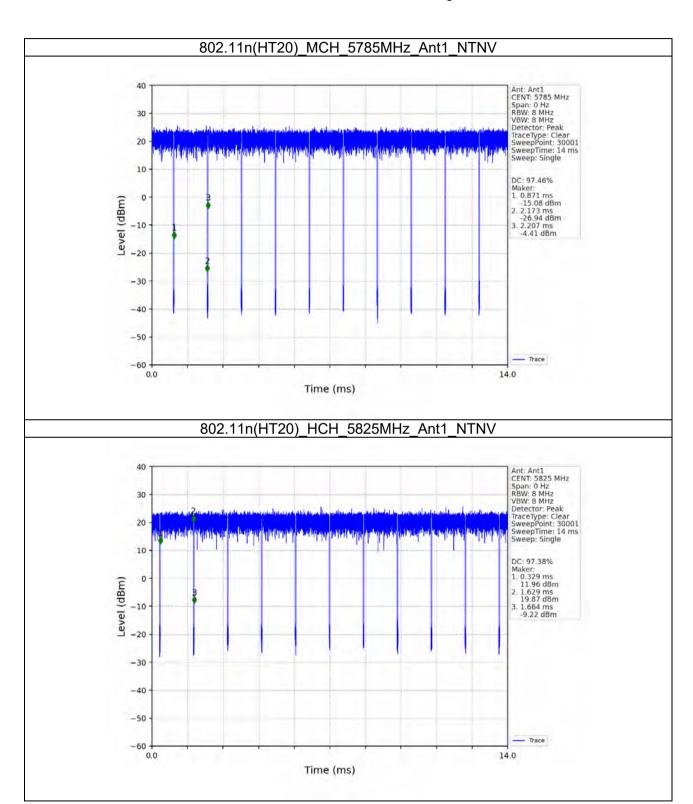
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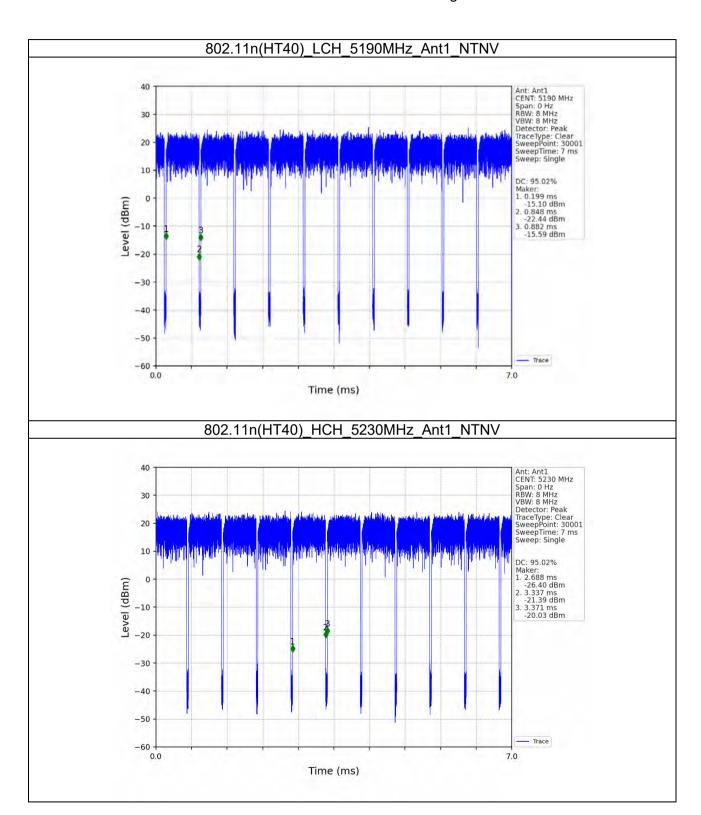
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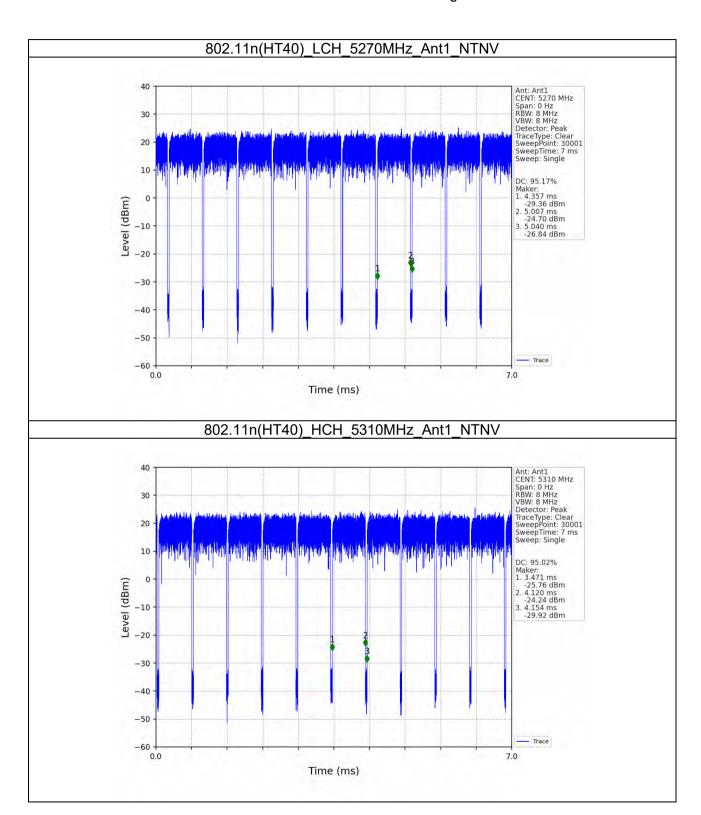
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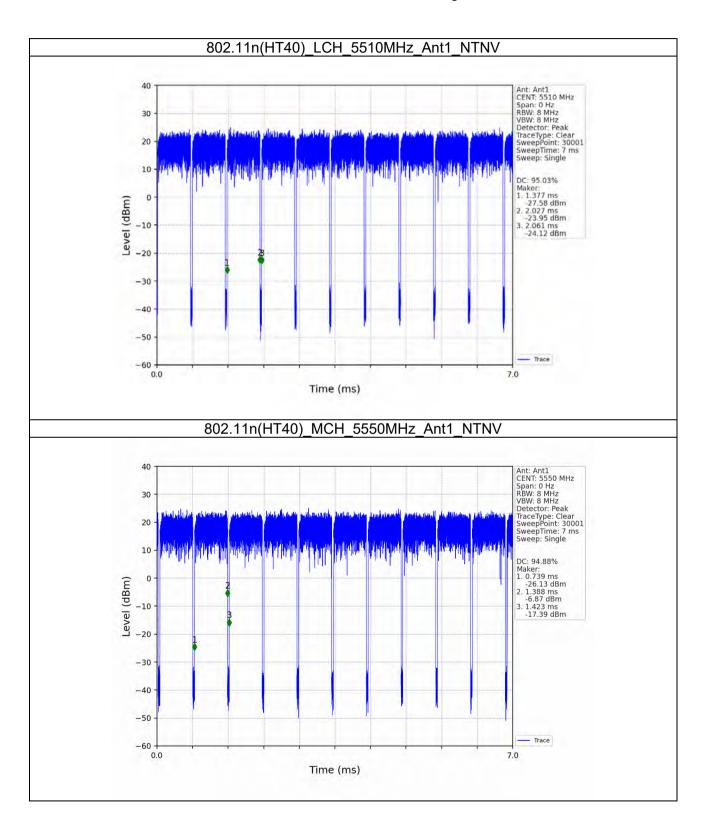
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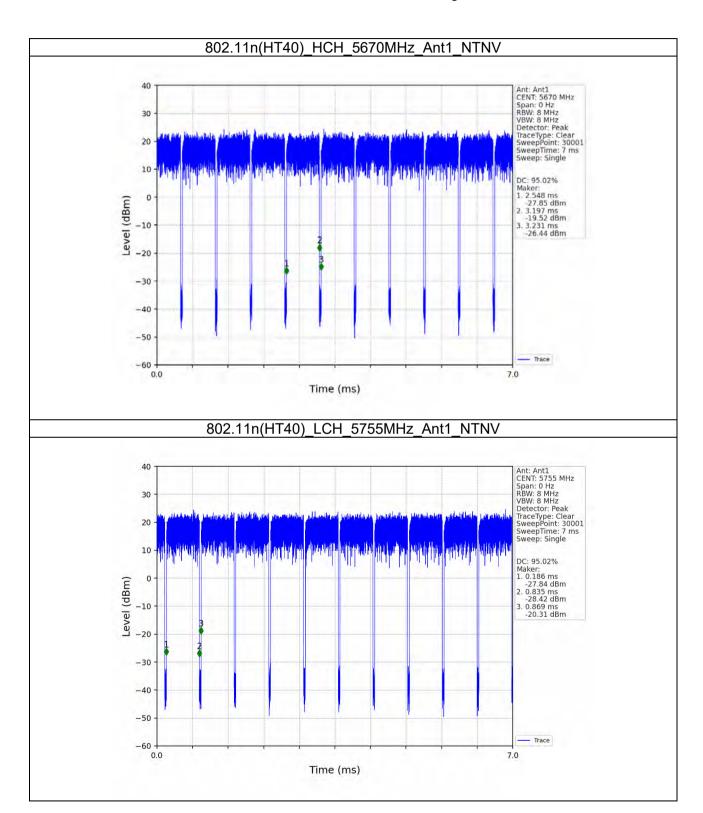
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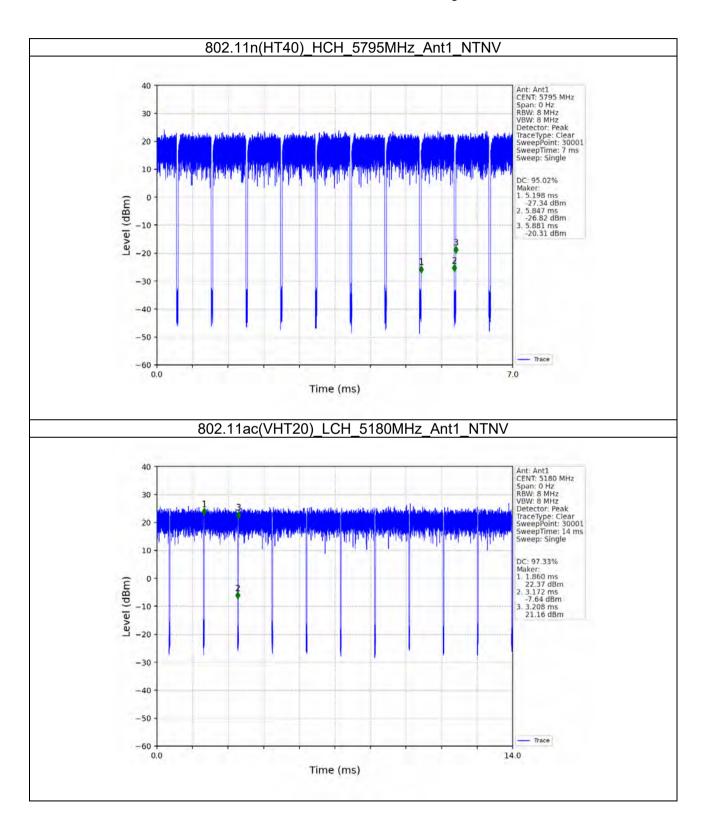
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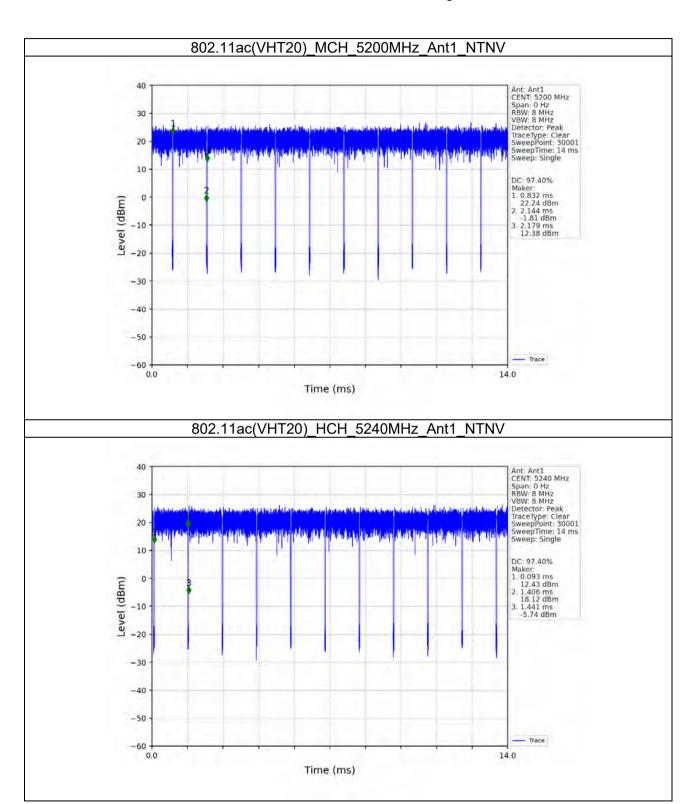
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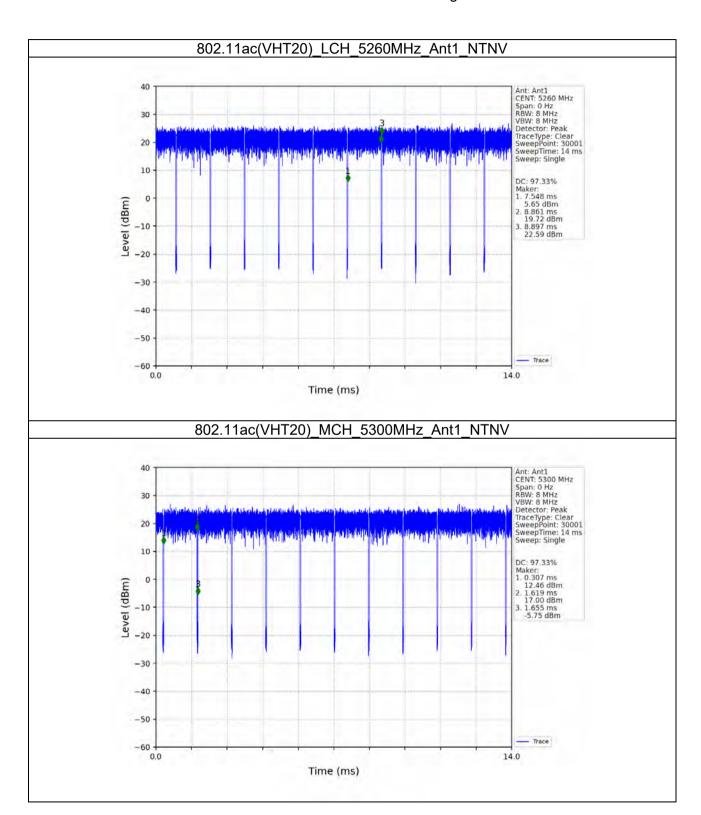
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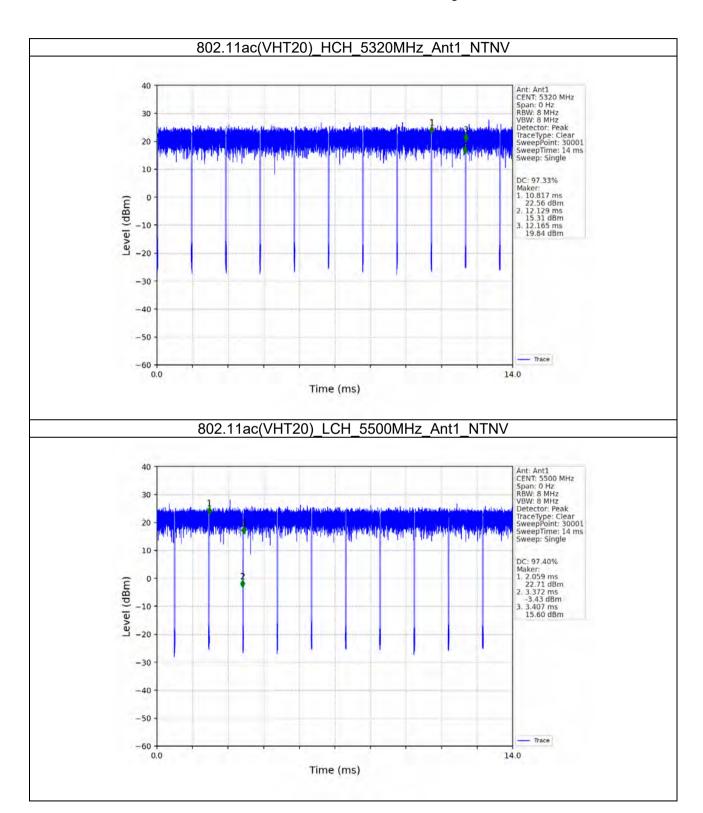
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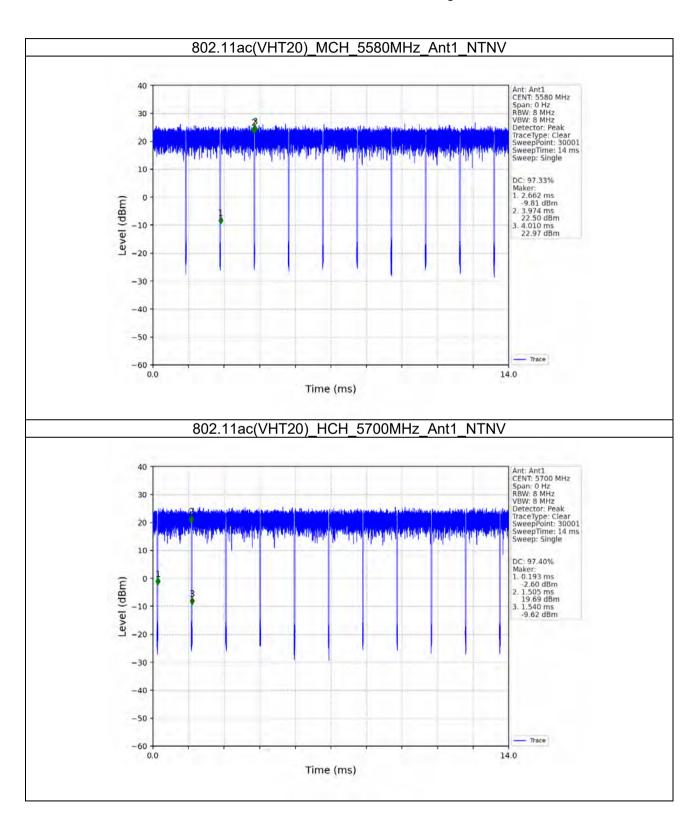
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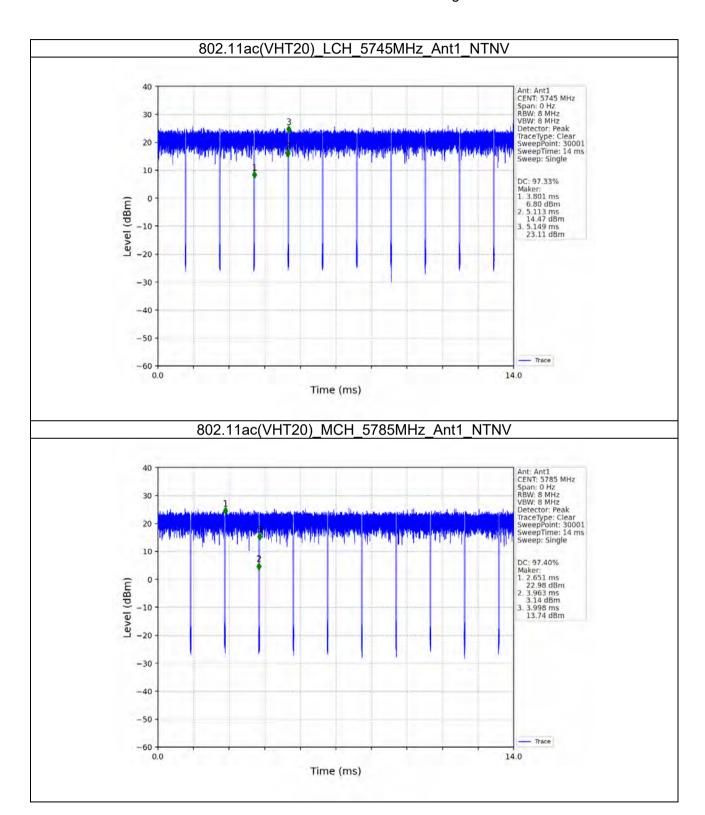
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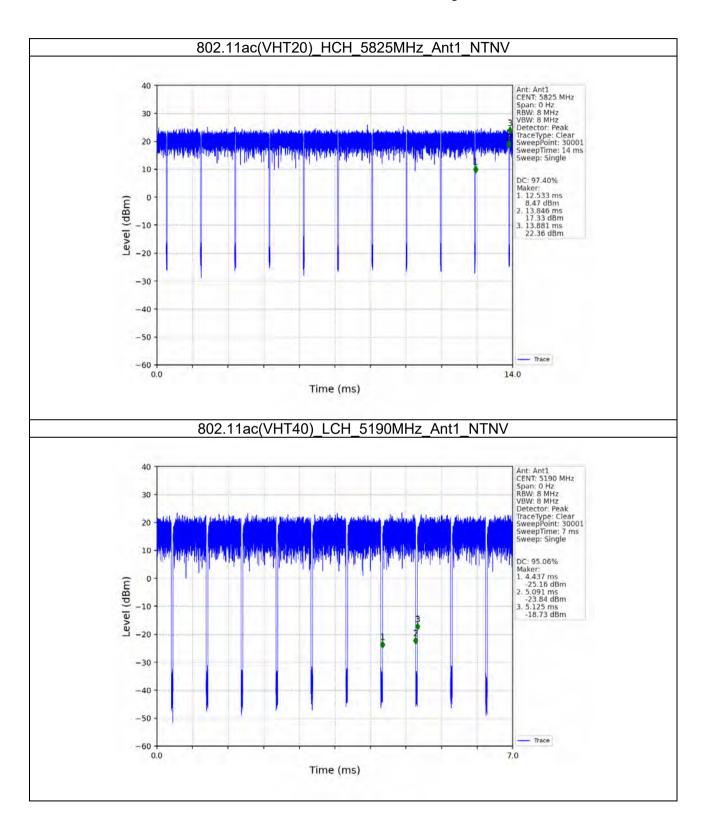
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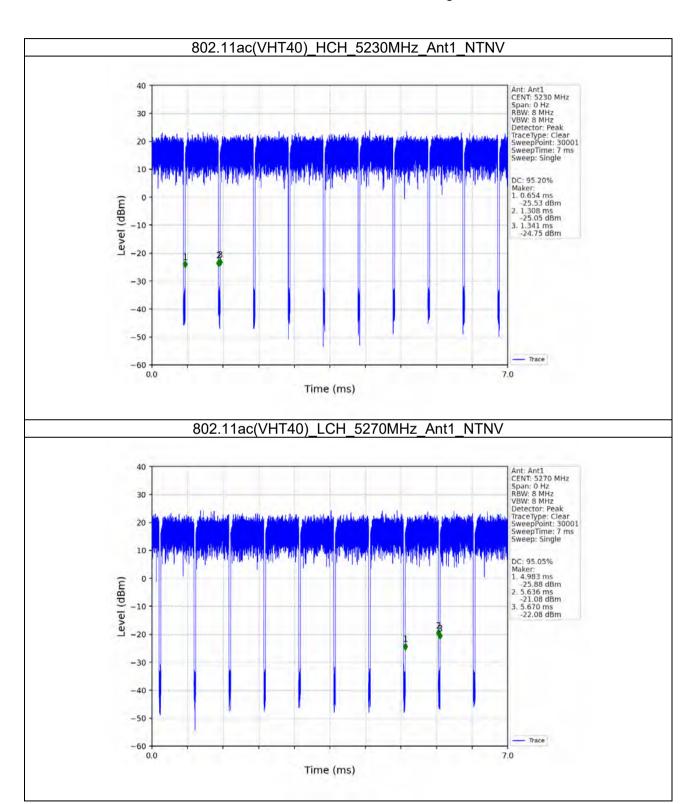
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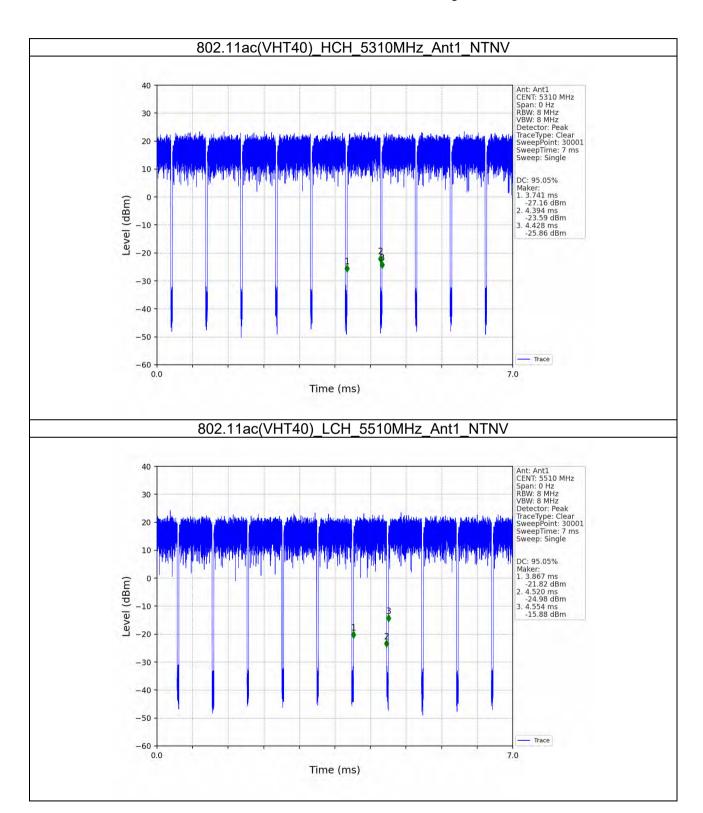
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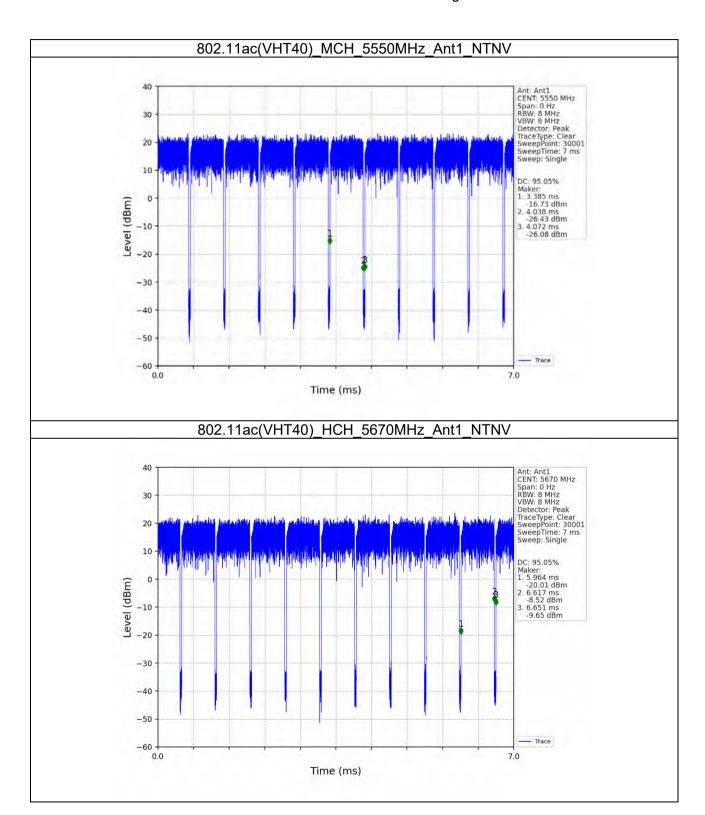
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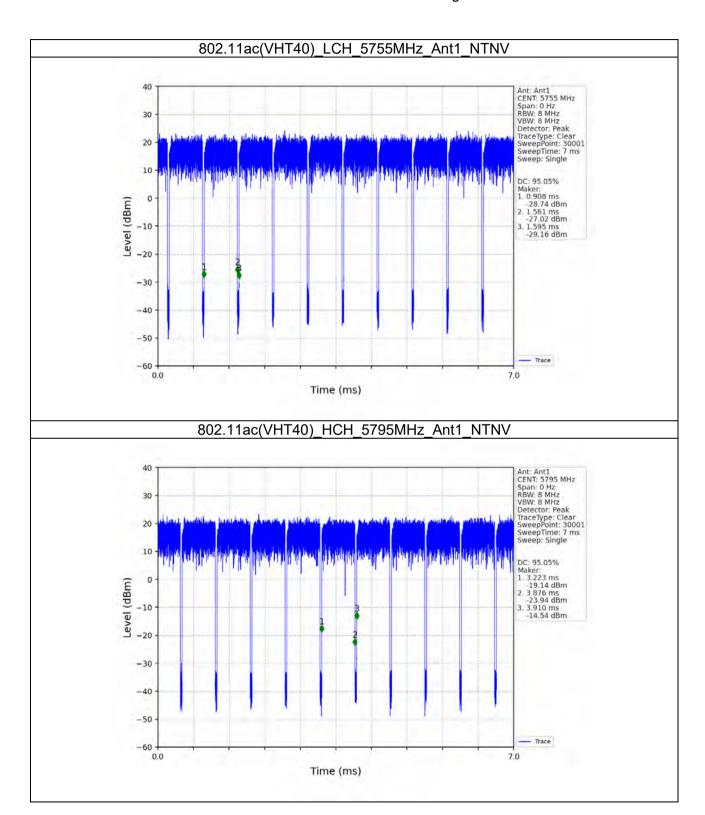
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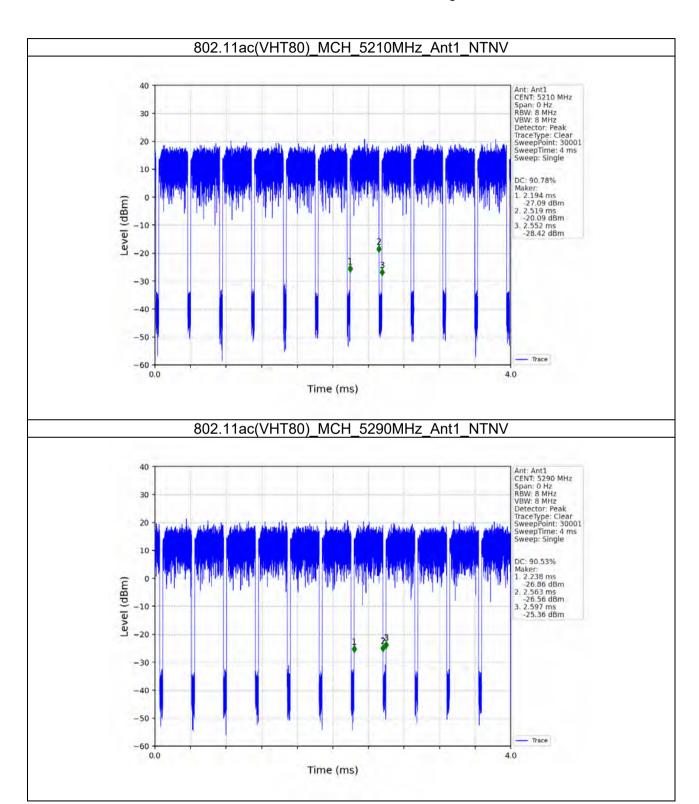
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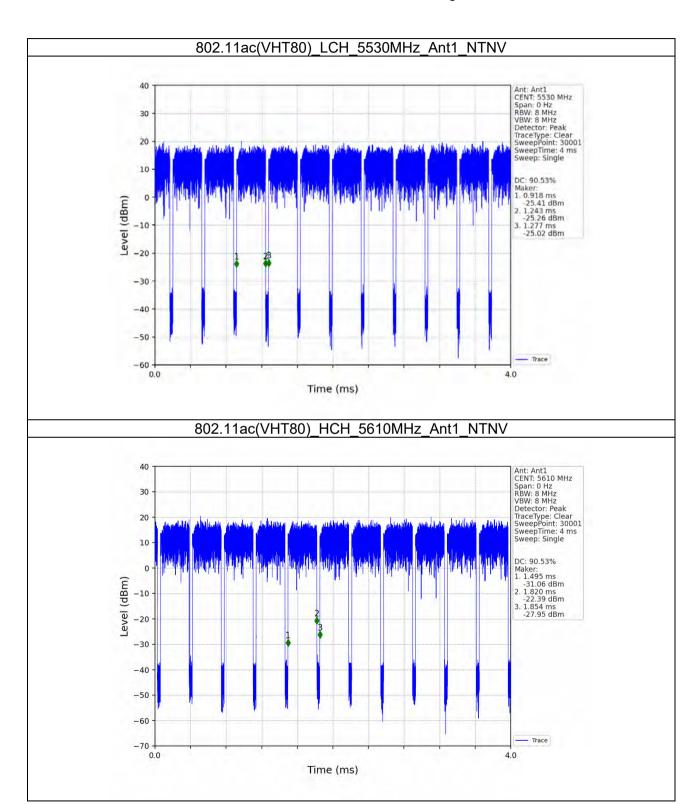
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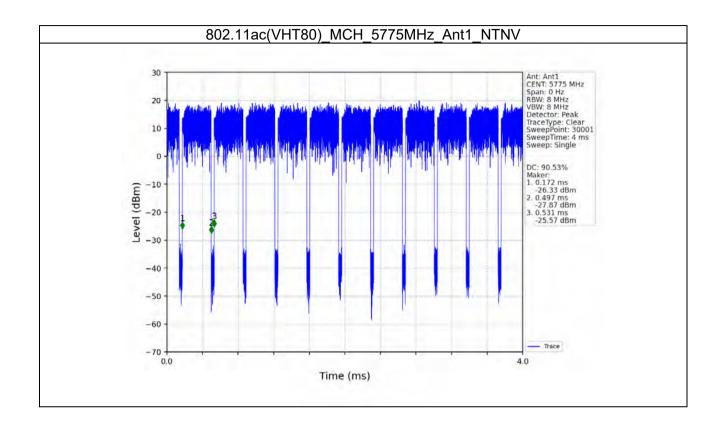
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency ANT		99% Occupied E	Verdict	
Mode	Type	(MHz)	Result	Limit	veruici	
	-	5180	1	18.030	/	Pass
		5200	1	17.955	/	Pass
		5240	1	17.791	/	Pass
		5260	1	17.991	/	Pass
		5300	1	18.018	/	Pass
802.11a	SISO	5320	1	18.329	/	Pass
002.11a	3130	5500	1	19.741	/	Pass
		5580	1	18.607	/	Pass
		5700	1	19.043	/	Pass
		5745	1	21.252	/	Pass
		5785	1	21.418	/	Pass
		5825	1	21.570	/	Pass
	SISO	5180	1	18.749	/	Pass
		5200	1	18.811	/	Pass
		5240	1	18.783	/	Pass
		5260	1	19.242	/	Pass
		5300	1	19.206	/	Pass
802.11n		5320	1	19.272	/	Pass
(HT20)		5500	1	22.088	/	Pass
, ,		5580	1	20.326	/	Pass
		5700	1	21.538	/	Pass
		5745	1	22.701	/	Pass
		5785	1	23.089	1	Pass
		5825	1	23.590	/	Pass
	SISO	5190	1	37.874	1	Pass
		5230	1	37.852	1	Pass
		5270	1	38.252	1	Pass
000 11		5310	1	38.161	1	Pass
802.11n		5510	1	39.957	/	Pass
(HT40)		5550	1	39.895	/	Pass
		5670	1	38.053	/	Pass
		5755	1	39.900	/	Pass
		5795	1	40.201	1	Pass
802.11ac	SISO	5180	1	18.771	1	Pass



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(VHT20)		5200	1	18.700	/	Pass
		5240	1	18.690	1	Pass
		5260	1	19.027	1	Pass
		5300	1	19.044	1	Pass
		5320	1	18.945	1	Pass
		5500	1	22.576	1	Pass
		5580	1	21.102	1	Pass
		5700	1	20.591	1	Pass
		5745	1	22.705	1	Pass
		5785	1	23.626	1	Pass
		5825	1	23.093	1	Pass
	SISO	5190	1	36.890	1	Pass
		5230	1	36.956	/	Pass
		5270	1	37.090	1	Pass
902 1100		5310	1	36.962	/	Pass
802.11ac (VHT40)		5510	1	37.250	/	Pass
		5550	1	37.267	1	Pass
		5670	1	37.046	1	Pass
		5755	1	37.598	1	Pass
		5795	1	37.794	1	Pass
	SISO	5210	1	76.325	1	Pass
902 1165		5290	1	76.392	1	Pass
802.11ac		5530	1	76.589	1	Pass
(VHT80)		5610	1	76.308	1	Pass
		5775	1	77.183	1	Pass

2.1.2 6dB BW

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict
IVIOGE	Type	(MHz)	ANI	Result	Limit	VEIGICE
	SISO	5745	1	15.156	>=0.5	Pass
802.11a		5785	1	15.154	>=0.5	Pass
		5825	1	15.117	>=0.5	Pass
900 11p	SISO	5745	1	15.061	>=0.5	Pass
802.11n (HT20)		5785	1	15.162	>=0.5	Pass
(11120)		5825	1	16.692	>=0.5	Pass
802.11n	SISO	5755	1	35.098	>=0.5	Pass
(HT40)		5795	1	35.118	>=0.5	Pass
902 1100	SISO	5745	1	15.335	>=0.5	Pass
802.11ac (VHT20)		5785	1	14.230	>=0.5	Pass
(٧١١٧)		5825	1	15.157	>=0.5	Pass
802.11ac	1 8180	5755	1	35.133	>=0.5	Pass
(VHT40)		5795	1	35.126	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.125	>=0.5	Pass



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2.1.3 26dB BW

Mode	TX	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Vardiet
Mode	Туре			Result	Limit	Verdict
	,	5180	1	25.054	/	Pass
		5200	1	24.504	/	Pass
		5240	1	23.725	/	Pass
		5260	1	24.552	/	Pass
802.11a	SISO	5300	1	24.650	/	Pass
		5320	1	25.437	/	Pass
		5500	1	30.131	/	Pass
		5580	1	28.278	/	Pass
		5700	1	30.383	/	Pass
		5180	1	25.304	/	Pass
		5200	1	25.088	/	Pass
		5240	1	23.606	/	Pass
000 115		5260	1	28.860	/	Pass
802.11n	SISO	5300	1	29.226	/	Pass
(HT20)		5320	1	27.606	/	Pass
		5500	1	31.728	/	Pass
		5580	1	31.438	/	Pass
		5700	1	31.477	/	Pass
		5190	1	67.603	/	Pass
		5230	1	65.375	/	Pass
802.11n	SISO	5270	1	73.851	/	Pass
(HT40)		5310	1	67.852	/	Pass
(11140)		5510	1	76.021	1	Pass
		5550	1	74.077	1	Pass
		5670	1	65.259	/	Pass
	SISO	5180	1	25.082	1	Pass
		5200	1	25.287	1	Pass
		5240	1	24.703	1	Pass
802.11ac		5260	1	28.443	1	Pass
(VHT20)		5300	1	26.425	1	Pass
(11120)		5320	1	27.889	1	Pass
		5500	1	33.575	1	Pass
		5580	1	31.869	1	Pass
		5700	1	31.071	1	Pass
	SISO	5190	1	56.081	1	Pass
		5230	1	55.299	1	Pass
802.11ac		5270	1	56.085	1	Pass
(VHT40)		5310	1	54.022	1	Pass
		5510	1	61.130	1	Pass
		5550	1	61.870	/	Pass



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		5670	1	51.745	1	Pass
802.11ac (VHT80) SI	SISO	5210	1	120.904	1	Pass
		5290	1	117.134	1	Pass
		5530	1	139.004	1	Pass
		5610	1	114.764	1	Pass



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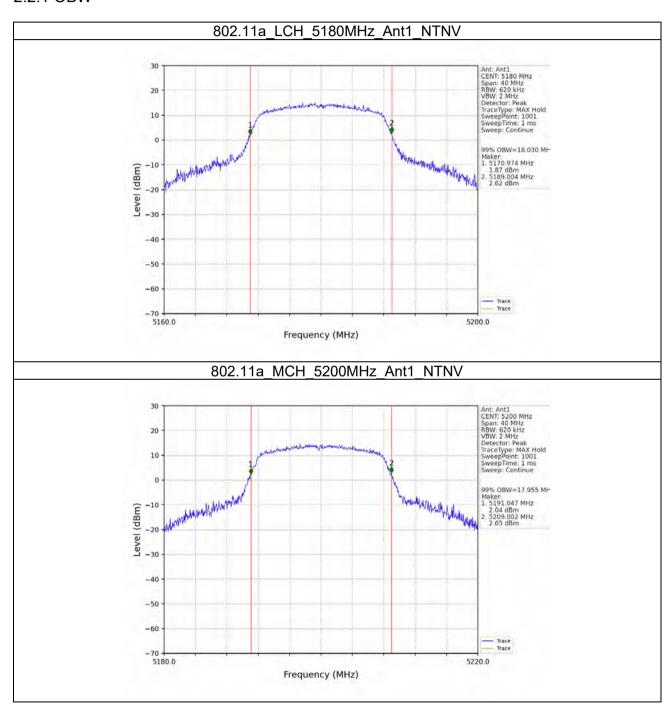
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2.2 Test Graph

2.2.1 OBW





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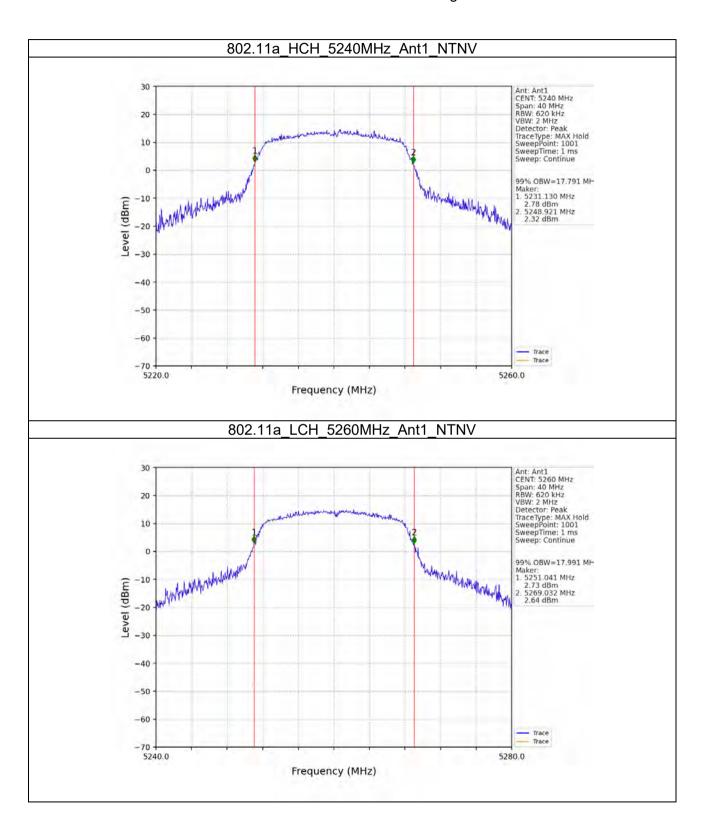
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