



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

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TEST REPORT

Application No.: SZCR2412004600AT
Applicant: Fujian Newland Payment Technology Co.,Ltd.
Address of Applicant: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China
Manufacturer: Fujian Newland Payment Technology Co.,Ltd.
Address of Manufacturer: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China
Equipment Under Test (EUT):
EUT Description: Unattended Terminal
Model No.: U2000
Trade Mark: Newland
FCC ID: 2AM6U-U2000
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-12-06
Date of Test: 2024-12-23 to 2025-01-08
Date of Issue: 2025-01-14

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-01-14		Original

Authorized for issue by:				
		Donjon . Huang		
		Donjon Huang/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	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		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	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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4 General Information

4.1 Details of E.U.T.

EUT Description:	Unattended Terminal	
Model No.:	U2000	
Trade Mark:	Newland	
Hardware Version:	V1.1	
Software Version:	NDroid 6	
Power Supply:	DC 12V from internal rechargeable battery which can be charge by AC/DC adapter Adapter model: ADS-25SGP-12	
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)
	80MHz:	802.11ac(VHT80)
Antenna Type:	☐ External, ☒ Integrated	
Antenna Gain:	5150MHz to 5250MHz: 0.76dBi; 5250MHz to 5350MHz: 1.35dBi; 5470MHz to 5725MHz: 1.08dBi; 5725MHz to 5850MHz: 0.92dBi;	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac
	☐ MIMO	CDD: 802.11a/n/ac: Tx & Rx
		STBC: 802.11n/ac: Tx & Rx
		TXBF: 802.11n/ac: Tx & Rx
	☐ Diversity	802.11a: Tx & Rx



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

EUT 1	HDMI is not supported
EUT 2	HDMI is supported

4.2 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	44.5-60.5 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	20~25	24
LTLV	-20	12
LTHV	-20	48
HTLV	70	12
HTHV	70	48
Note: NV:Normal Voltage LV:Low Extreme Test Voltage HV:High Extreme Test Voltage NT:Normal Temperature LT:Low Extreme Test Temperature HT:High Extreme Test Temperature		



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4.3 Description of Support Units

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

4.4 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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:

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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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5 Equipment List

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
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-	N/A	N/A	N/A



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		27			
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05

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



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6 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 fixed with glue, and the antenna cannot be replaced.

5150MHz to 5250MHz: 0.76dBi;*

5250MHz to 5350MHz: 1.35dBi;*

5470MHz to 5725MHz: 1.08dBi;*

5725MHz to 5850MHz: 0.92dBi;*

**Note:*

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

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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.



7 Radio Spectrum Matter Test Results

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

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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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	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

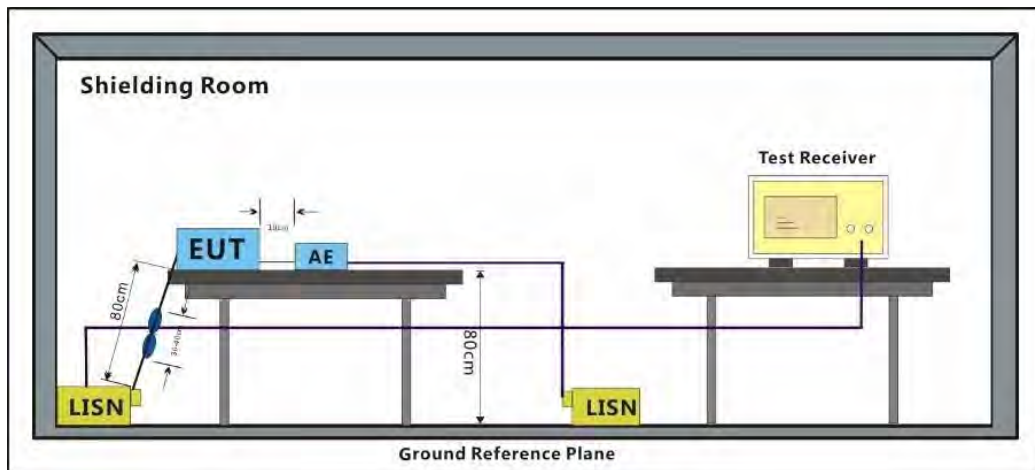


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		have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-2C)_Keep 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	13	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	14	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



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.

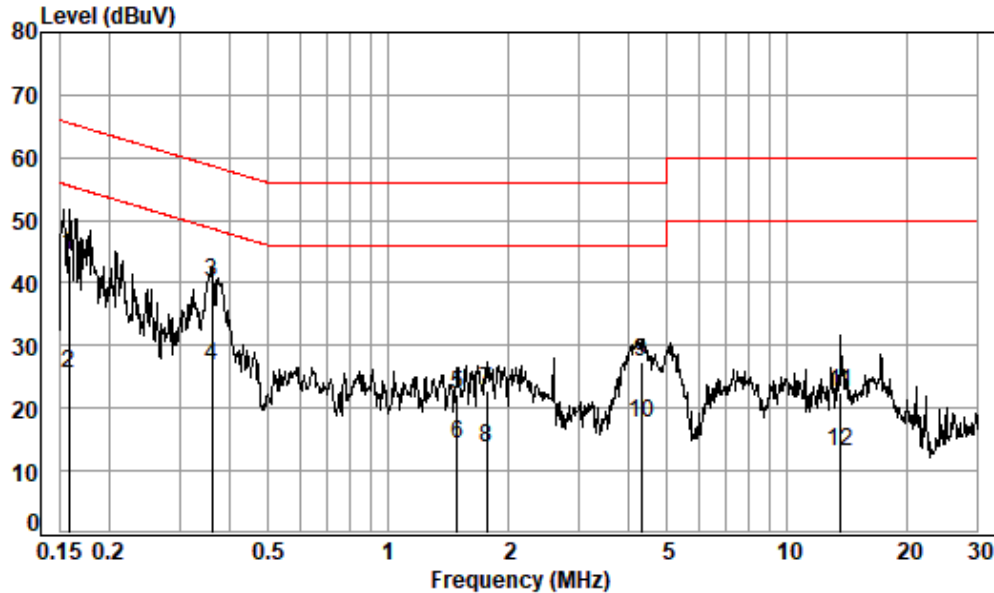
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 07; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 04600AT
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.06	10.18	34.05	44.29	65.52	-21.23	QP
2	0.1590	0.06	10.18	15.24	25.48	55.52	-30.04	Average
3 *	0.3615	0.07	9.74	30.49	40.30	58.69	-18.39	QP
4 *	0.3615	0.07	9.74	16.88	26.69	48.69	-22.00	Average
5	1.4874	0.10	9.58	12.44	22.12	56.00	-33.88	QP
6	1.4874	0.10	9.58	4.73	14.41	46.00	-31.59	Average
7	1.7623	0.10	9.58	13.15	22.83	56.00	-33.17	QP
8	1.7623	0.10	9.58	4.10	13.78	46.00	-32.22	Average
9	4.2918	0.12	9.66	17.60	27.38	56.00	-28.62	QP
10	4.2918	0.12	9.66	7.94	17.72	46.00	-28.28	Average
11	13.5509	0.24	9.86	12.49	22.59	60.00	-37.41	QP
12	13.5509	0.24	9.86	2.99	13.09	50.00	-36.91	Average

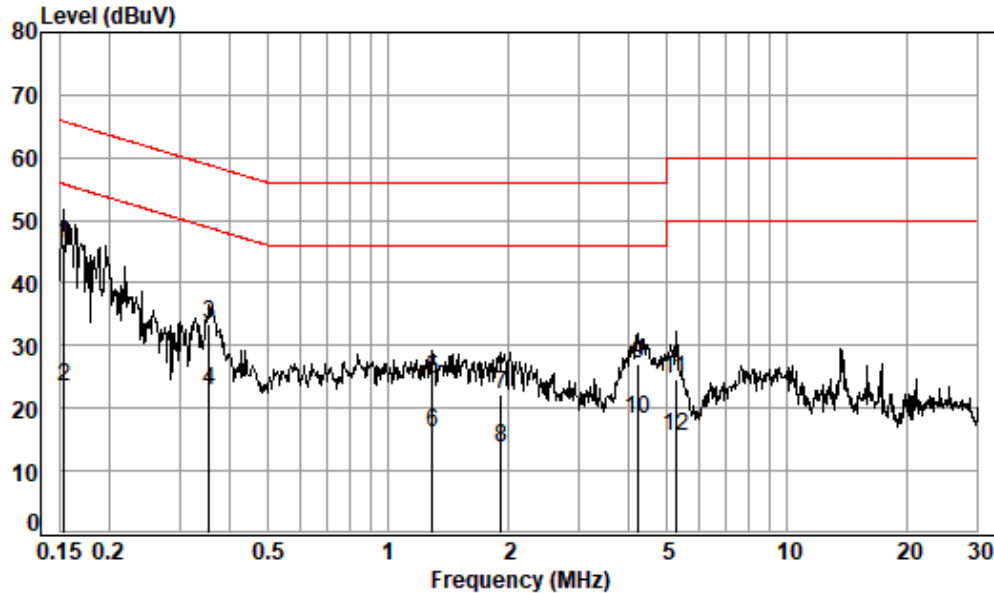
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Test Mode: 07; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 04600AT
Test mode: 07

	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	35.96	46.16	65.78	-19.62	QP
2	0.1540	0.06	10.14	13.31	23.51	55.78	-32.27	Average
3	0.3558	0.07	9.75	23.70	33.52	58.83	-25.31	QP
4 *	0.3558	0.07	9.75	12.86	22.68	48.83	-26.15	Average
5	1.2892	0.09	9.54	15.04	24.67	56.00	-31.33	QP
6	1.2892	0.09	9.54	6.62	16.25	46.00	-29.75	Average
7	1.9182	0.10	9.55	12.46	22.11	56.00	-33.89	QP
8	1.9182	0.10	9.55	3.90	13.55	46.00	-32.45	Average
9	4.2242	0.12	9.55	17.47	27.14	56.00	-28.86	QP
10	4.2242	0.12	9.55	8.52	18.19	46.00	-27.81	Average
11	5.2491	0.13	9.57	14.98	24.68	60.00	-35.32	QP
12	5.2491	0.13	9.57	5.76	15.46	50.00	-34.54	Average



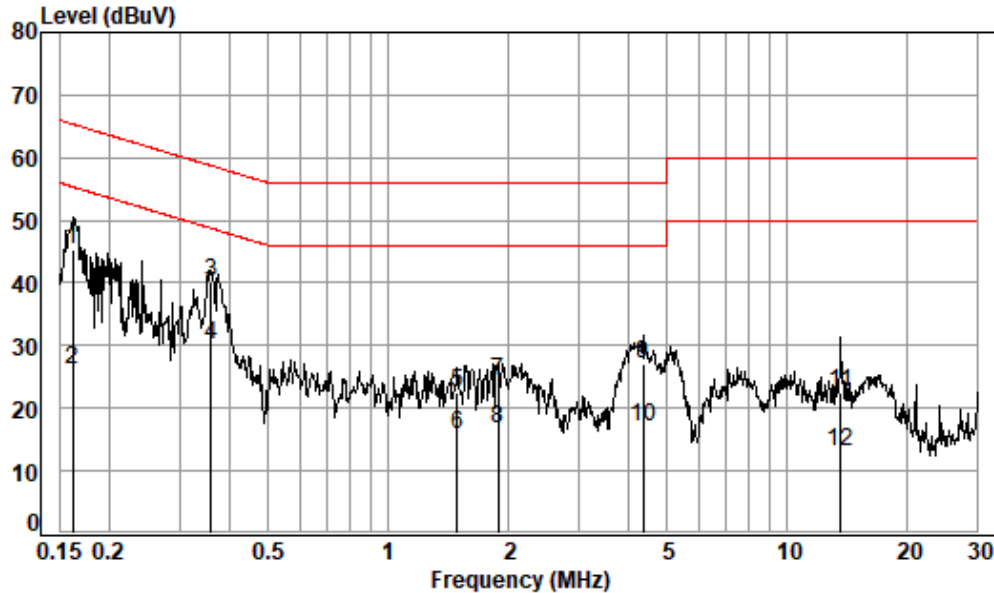
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Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 04600AT
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.06	10.17	35.10	45.33	65.34	-20.01	QP
2	0.1624	0.06	10.17	15.84	26.07	55.34	-29.27	Average
3 *	0.3596	0.07	9.74	30.41	40.22	58.74	-18.52	QP
4 *	0.3596	0.07	9.74	20.23	30.04	48.74	-18.70	Average
5	1.4874	0.10	9.58	12.75	22.43	56.00	-33.57	QP
6	1.4874	0.10	9.58	6.24	15.92	46.00	-30.08	Average
7	1.8879	0.10	9.58	14.51	24.19	56.00	-31.81	QP
8	1.8879	0.10	9.58	7.00	16.68	46.00	-29.32	Average
9	4.3376	0.12	9.66	17.34	27.12	56.00	-28.88	QP
10	4.3376	0.12	9.66	7.12	16.90	46.00	-29.10	Average
11	13.5509	0.24	9.86	12.34	22.44	60.00	-37.56	QP
12	13.5509	0.24	9.86	3.05	13.15	50.00	-36.85	Average

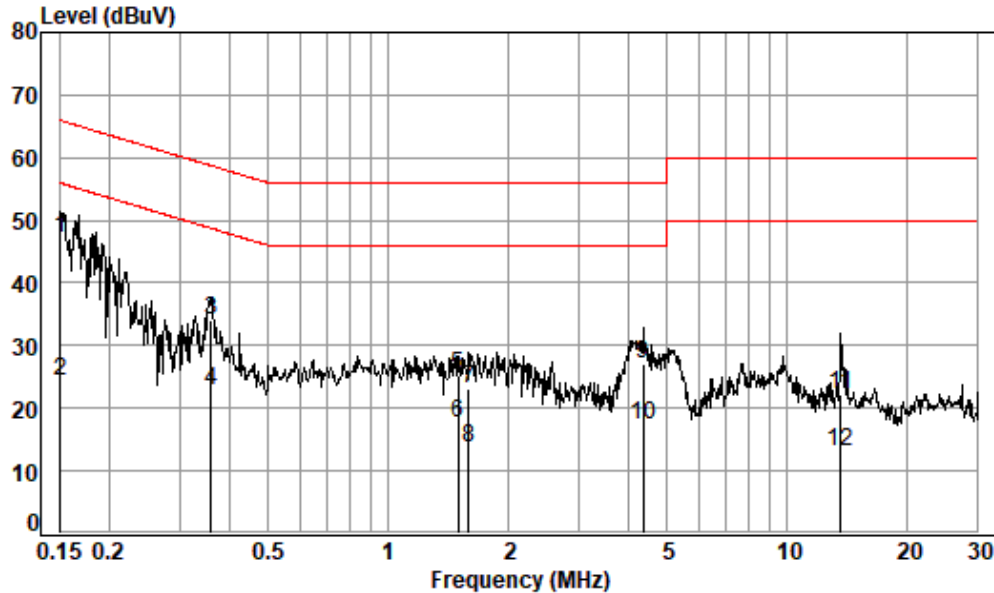
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

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Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 04600AT
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1508	0.06	10.15	36.85	47.06	65.96	-18.90	QP
2	0.1508	0.06	10.15	14.04	24.25	55.96	-31.71	Average
3	0.3596	0.07	9.75	24.19	34.01	58.74	-24.73	QP
4 *	0.3596	0.07	9.75	12.94	22.76	48.74	-25.98	Average
5	1.4953	0.10	9.55	15.67	25.32	56.00	-30.68	QP
6	1.4953	0.10	9.55	7.96	17.61	46.00	-28.39	Average
7	1.5935	0.10	9.55	13.41	23.06	56.00	-32.94	QP
8	1.5935	0.10	9.55	3.95	13.60	46.00	-32.40	Average
9	4.3376	0.12	9.55	17.31	26.98	56.00	-29.02	QP
10	4.3376	0.12	9.55	7.58	17.25	46.00	-28.75	Average
11	13.5509	0.24	9.78	12.19	22.21	60.00	-37.79	QP
12	13.5509	0.24	9.78	2.99	13.01	50.00	-36.99	Average

7.2 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤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:

Temperature: 23.2 °C

Humidity: 48.1 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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



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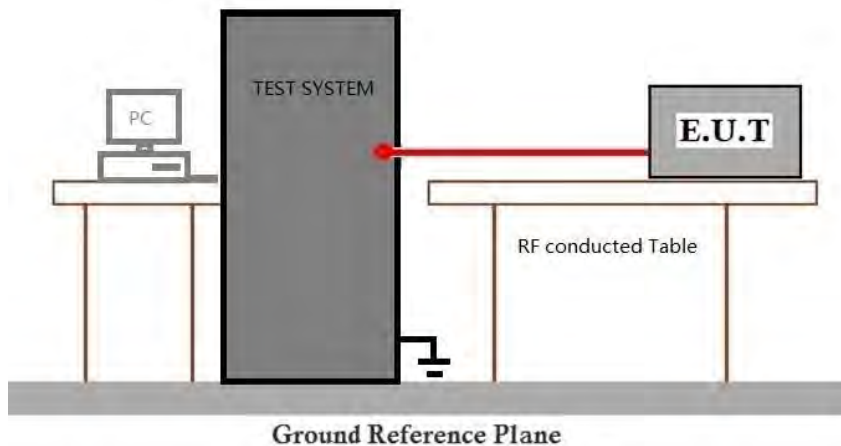
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		is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type 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.

7.2.3 Test Setup Diagram



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

7.3 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 10m

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: 23.6 °C

Humidity: 50.9 % RH

Atmospheric Pressure: 1020 mbar

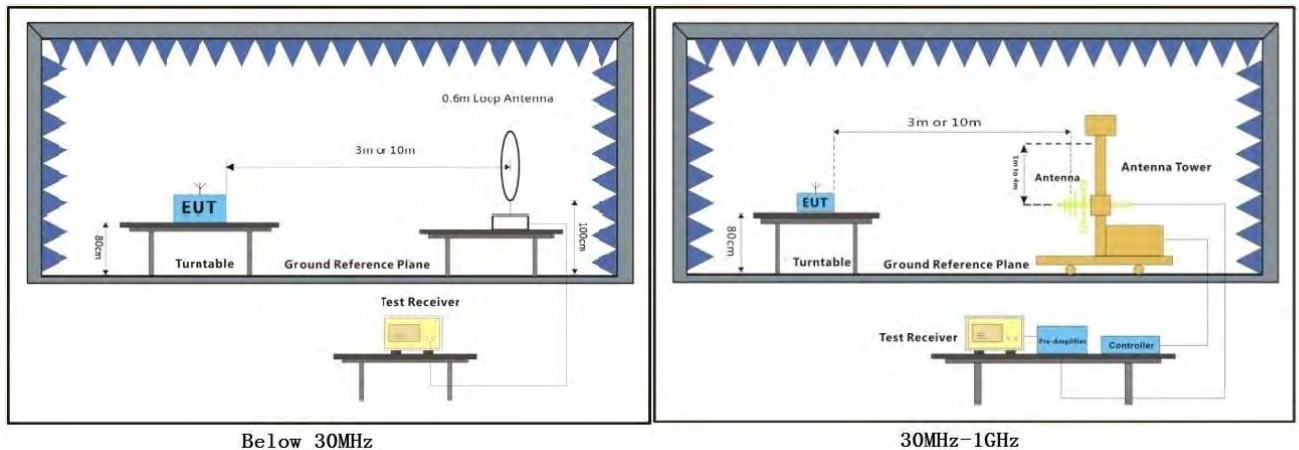
7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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	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-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	13	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	14	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



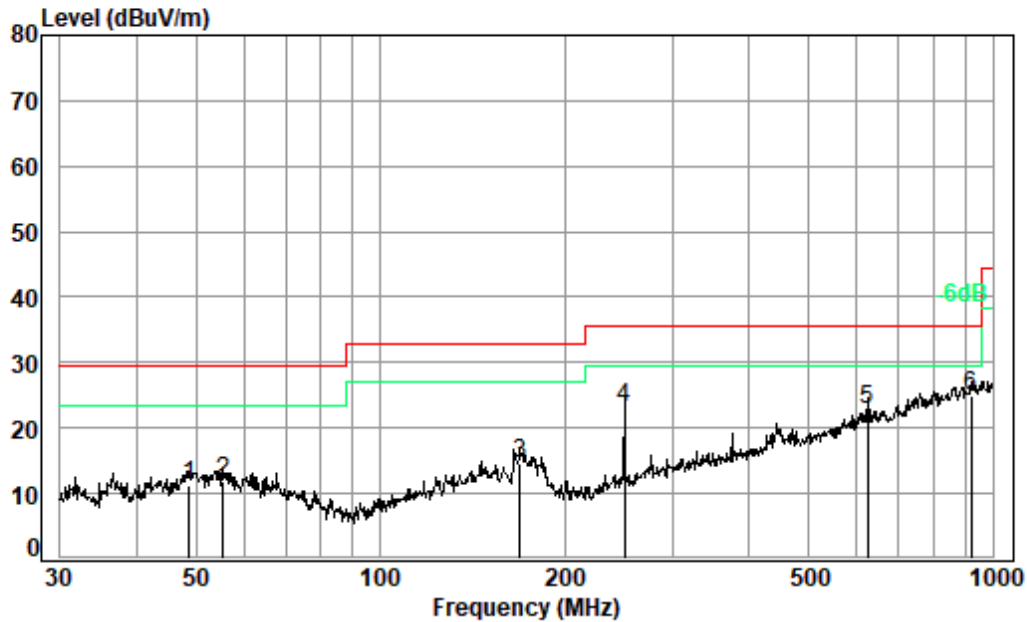
7.3.4 Measurement Procedure and Data

- 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.

Test Mode: 07; Polarity: Horizontal



Condition: 10m HORIZONTAL
Job No. : 04600AT/04601AT
Test Mode: 07
: EUT1

	Read Freq	Ant Level	Cable Factor	Preamp Loss	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	48.843	25.24	18.06	0.53	32.50	11.33	29.50	-18.17 QP
2	55.415	25.81	17.86	0.56	32.48	11.75	29.50	-17.75 QP
3	169.005	28.89	17.23	1.03	32.50	14.65	33.00	-18.35 QP
4	250.301	38.32	15.91	1.30	32.45	23.08	35.60	-12.52 QP
5	625.078	28.77	24.59	2.16	32.75	22.77	35.60	-12.83 QP
6 pp	922.516	26.25	27.81	2.66	31.64	25.08	35.60	-10.52 QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZONTAL							
Frequency MHz	Level @ 10m dBuV/m	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Limit @ 3m dBuV/m	Limit @ 3m dBuV/m	Over Limit dB	Remark
48.843	11.33	3.69	12.29	21.79	40.00	-18.21	QP
55.415	11.75	3.87	12.89	22.21	40.00	-17.79	QP
169.005	14.65	5.40	18.00	25.11	43.50	-18.39	QP
250.301	23.08	14.26	47.52	33.54	46.00	-12.46	QP
625.078	22.77	13.76	45.85	33.23	46.00	-12.77	QP
922.516	25.08	17.95	59.82	35.54	46.00	-10.46	QP



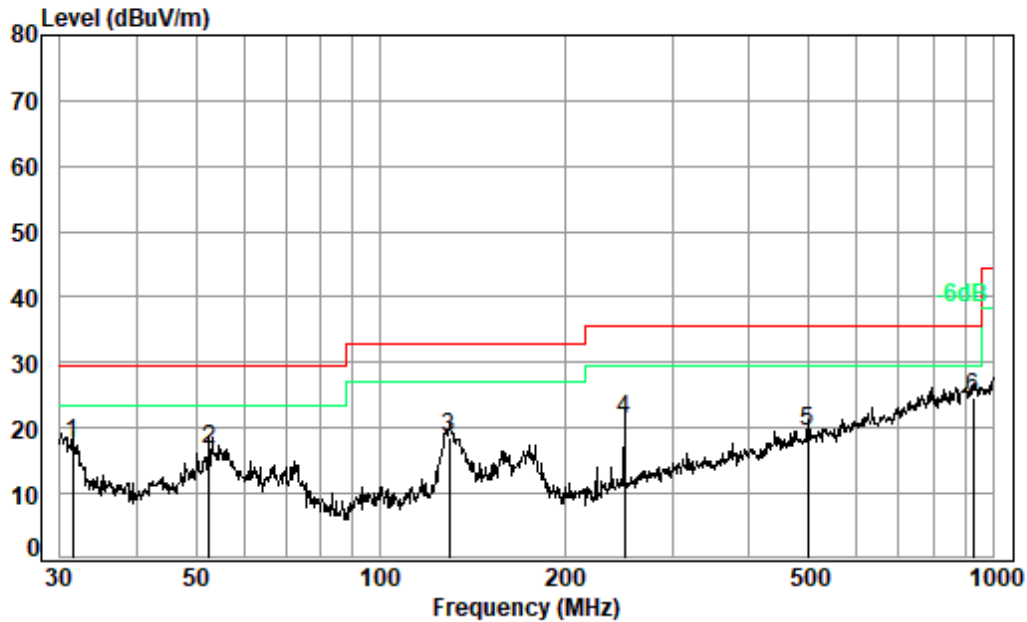
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Test Mode: 07; Polarity: Vertical



Condition: 10m VERTICAL
Job No. : 04600AT/04601AT
Test Mode: 07
: EUT1

	Read Freq	Ant Level	Cable Factor	Preamp Loss	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	31.510	33.74	15.83	0.43	32.50	17.50	29.50	QP
2	52.575	30.37	18.21	0.55	32.49	16.64	29.50	QP
3	129.468	33.99	16.21	0.87	32.50	18.57	33.00	QP
4	250.301	36.39	15.91	1.30	32.45	21.15	35.60	QP
5	499.425	28.40	21.87	1.85	32.70	19.42	35.60	QP
6 pp	929.008	25.76	27.89	2.66	31.60	24.71	35.60	QP

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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTICAL							
Frequency MHz	Level @ 10m dBuV/m	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Limit @ 3m dBuV/m	Limit @ 3m dBuV/m	Over Limit dB	Remark
31.510	17.50	7.50	25.00	27.96	40.00	-12.04	QP
52.575	16.64	6.79	22.64	27.10	40.00	-12.90	QP
129.468	18.57	8.48	28.27	29.03	43.50	-14.47	QP
250.301	21.15	11.42	38.05	31.61	46.00	-14.39	QP
499.425	19.42	9.35	31.18	29.88	46.00	-16.12	QP
929.008	24.71	17.20	57.33	35.17	46.00	-10.83	QP



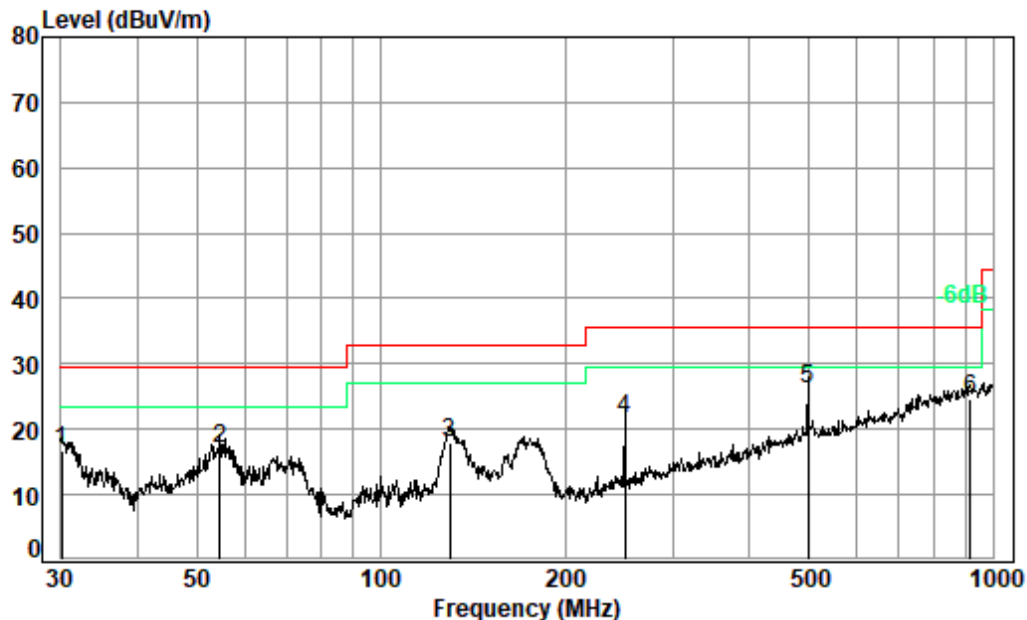
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Test Mode: 08; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 04600AT/04601AT

Test Mode: 08

: EUT2

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.105	33.44	15.41	0.42	32.50	16.77	29.50	-12.73	QP
2	54.643	31.08	17.97	0.56	32.48	17.13	29.50	-12.37	QP
3	129.468	33.50	16.21	0.87	32.50	18.08	33.00	-14.92	QP
4	250.301	36.71	15.91	1.30	32.45	21.47	35.60	-14.13	QP
5 pp	499.425	35.04	21.87	1.85	32.70	26.06	35.60	-9.54	QP
6	919.287	25.98	27.76	2.65	31.66	24.73	35.60	-10.87	QP



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Report No.: SZCR241200460005

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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTICAL							
Frequency MHz	Level @ 10m dBuV/m	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Limit @ 3m dBuV/m	Limit @ 3m dBuV/m	Over Limit dB	Remark
30.105	16.77	6.89	22.98	27.23	40.00	-12.77	QP
54.643	17.13	7.19	23.95	27.59	40.00	-12.41	QP
129.468	18.08	8.02	26.72	28.54	43.50	-14.96	QP
250.301	21.47	11.84	39.48	31.93	46.00	-14.07	QP
499.425	26.06	20.09	66.97	36.52	46.00	-9.48	QP
919.287	24.73	17.24	57.46	35.19	46.00	-10.81	QP



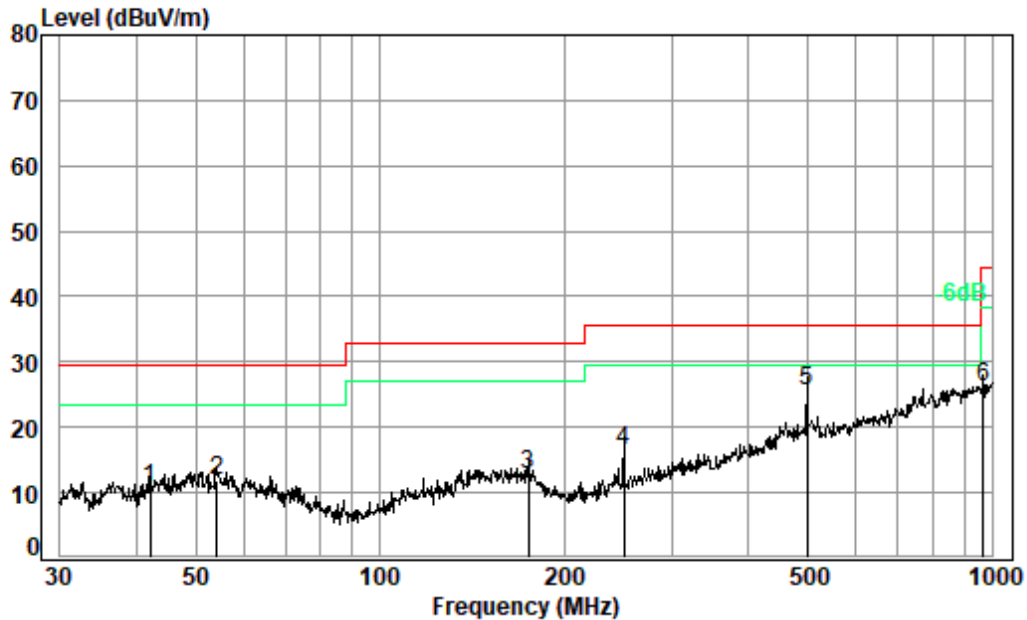
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Test Mode: 08; Polarity: Horizontal



Condition: 10m HORIZONTAL
Job No. : 04600AT/04601AT
Test Mode: 08
: EUT2

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	42.154	25.47	17.08	0.49	32.50	10.54	29.50	-18.96	QP
2	54.071	25.59	18.06	0.56	32.49	11.72	29.50	-17.78	QP
3	175.037	27.67	16.56	1.05	32.50	12.78	33.00	-20.22	QP
4	250.301	31.78	15.91	1.30	32.45	16.54	35.60	-19.06	QP
5 pp	499.425	34.62	21.87	1.85	32.70	25.64	35.60	-9.96	QP
6	968.934	26.92	27.84	2.69	31.32	26.13	44.40	-18.27	QP

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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZONTAL							
Frequency MHz	Level @ 10m dBuV/m	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Limit @ 3m dBuV/m	Limit @ 3m dBuV/m	Over Limit dB	Remark
42.154	10.54	3.37	11.22	21.00	40.00	-19.00	QP
54.071	11.72	3.85	12.85	22.18	40.00	-17.82	QP
175.037	12.78	4.36	14.52	23.24	43.50	-20.26	QP
250.301	16.54	6.71	22.38	27.00	46.00	-19.00	QP
499.425	25.64	19.14	63.81	36.10	46.00	-9.90	QP
968.934	26.13	20.25	67.51	36.59	54.00	-17.41	QP



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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: ANSI C63.10 (2013) Section 6.6

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: 23.2 °C Humidity: 60.5 % RH Atmospheric Pressure: 1020 mbar



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7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	Charge + TX mode (U-NII-1)_Keep the EUT1 in Charge 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	04	Charge + TX mode (U-NII-2A)_Keep the EUT1 in Charge 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	05	Charge + TX mode (U-NII-2C)_Keep the EUT1 in Charge 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	06	Charge + TX mode (U-NII-3)_Keep the EUT1 in Charge 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	07	Charge + TX mode (U-NII-1)_Keep the EUT2 in Charge 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	08	Charge + TX mode (U-NII-2A)_Keep the EUT2 in Charge 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	09	Charge + TX mode (U-NII-2C)_Keep the EUT2 in Charge 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-3)_Keep the EUT2 in Charge 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.



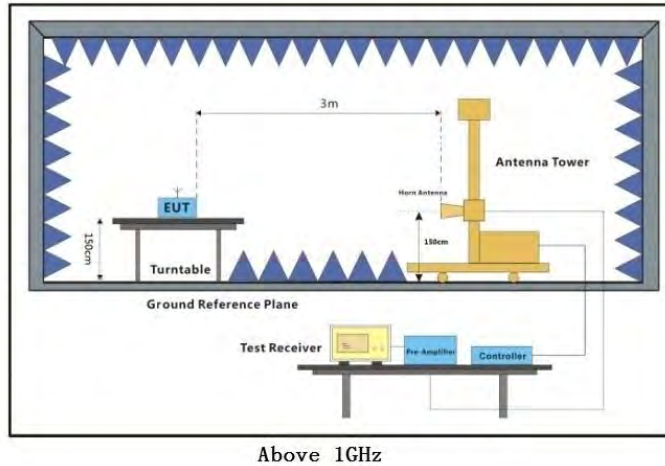
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7.4.3 Test Setup Diagram



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 $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



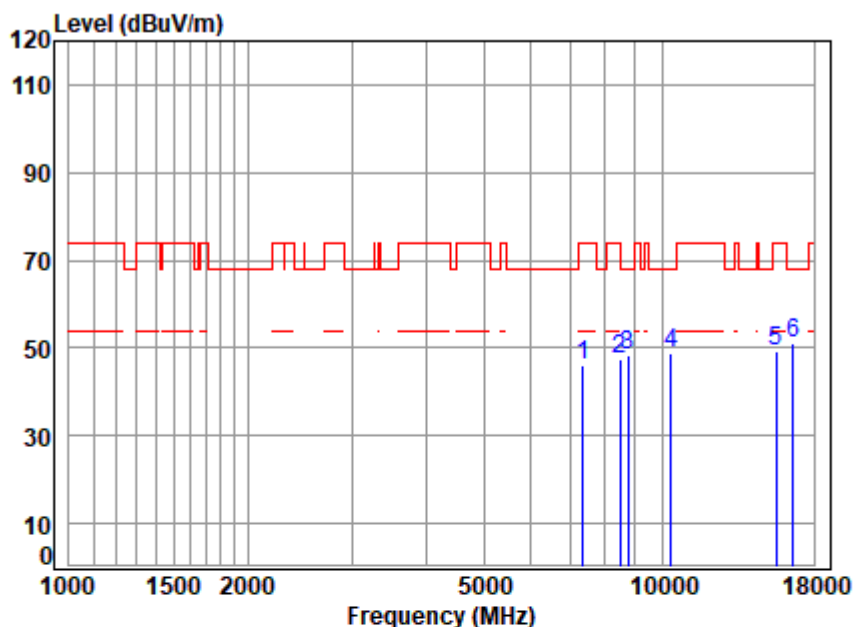
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5180 TX RSE

: 5G WIFI 11A

	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	7352.564	11.50	36.79	56.42	54.05	45.92	74.00	-28.08 peak
2	8496.769	12.29	38.31	55.45	52.45	47.60	74.00	-26.40 peak
3	8742.585	12.16	38.51	55.23	53.03	48.47	68.20	-19.73 peak
4	10360.000	13.60	39.00	53.88	50.04	48.76	68.20	-19.44 peak
5	15540.000	17.00	38.56	54.14	47.95	49.37	74.00	-24.63 peak
6	pp16608.340	17.64	39.22	54.18	48.26	50.94	68.20	-17.26 peak



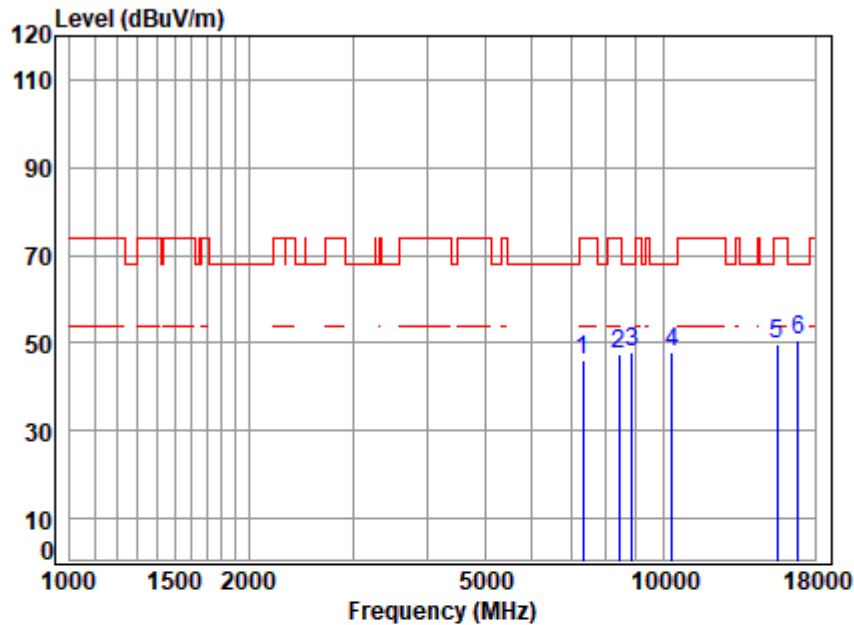
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

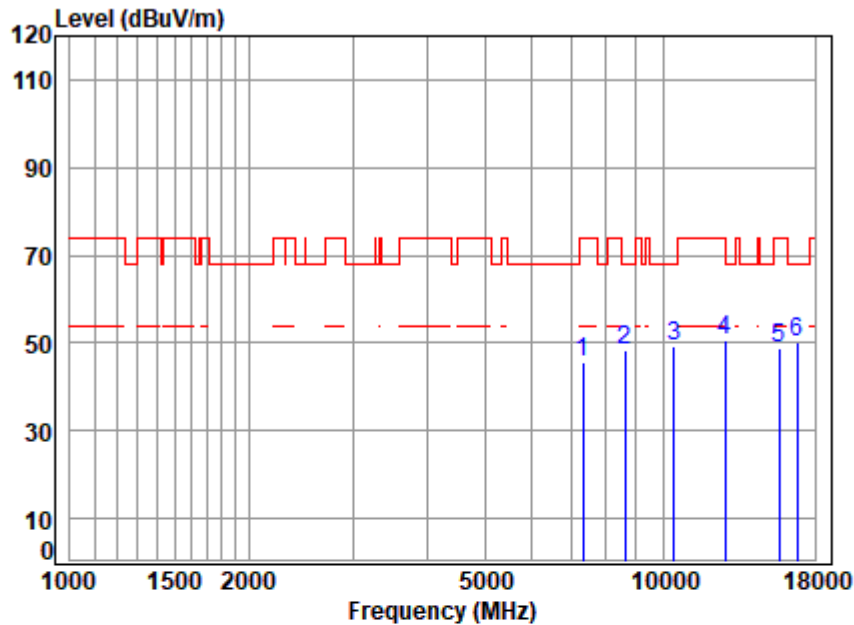
Mode : 5180 TX RSE

: 5G WIFI 11A

	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	7330.131	11.51	36.76	56.44	54.08	45.91	74.00	-28.09 peak
2	8410.663	11.70	38.56	55.53	52.67	47.40	74.00	-26.60 peak
3	8850.100	12.23	38.50	55.13	52.40	48.00	68.20	-20.20 peak
4	10360.000	13.60	39.00	53.88	49.07	47.79	68.20	-20.41 peak
5	15540.000	17.00	38.56	54.14	48.38	49.80	74.00	-24.20 peak
6	pp16881.220	18.04	39.60	54.26	47.14	50.52	68.20	-17.68 peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

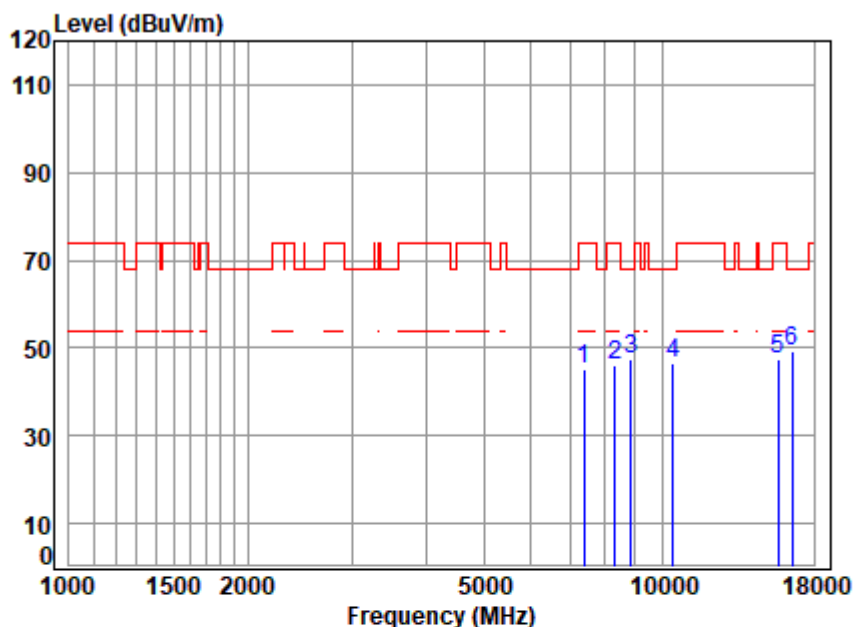


Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5220 TX RSE
: 5G WIFI 11A

	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	7330.131	11.51	36.76	56.44	53.99	45.82	74.00	-28.18 peak
2	8627.584	12.00	38.44	55.34	53.37	48.47	68.20	-19.73 peak
3	10440.000	13.63	39.04	53.84	50.35	49.18	68.20	-19.02 peak
4	12692.390	15.52	40.19	54.28	49.29	50.72	74.00	-23.28 Peak
5	15660.000	17.23	38.56	54.10	47.36	49.05	74.00	-24.95 peak
6	pp16812.580	17.55	39.60	54.24	47.50	50.41	68.20	-17.79 peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5220 TX RSE

: 5G WIFI 11A

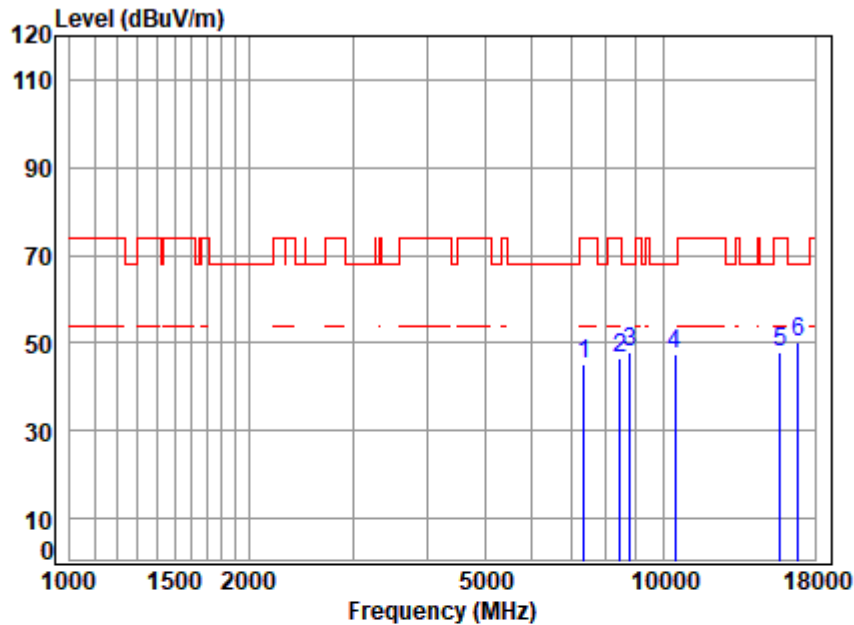
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7367.558	11.50	36.76	56.41	53.21	45.06	74.00	-28.94 peak
2	8316.953	11.74	38.17	55.61	51.77	46.07	74.00	-27.93 peak
3	8850.100	12.23	38.50	55.13	51.83	47.43	68.20	-20.77 peak
4	10440.000	13.63	39.04	53.84	47.81	46.64	68.20	-21.56 peak
5	15660.000	17.23	38.56	54.10	45.98	47.67	74.00	-26.33 peak
6	pp16557.660	17.69	39.07	54.17	46.72	49.31	68.20	-18.89 peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5240 TX RSE
: 5G WIFI 11A

	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	7352.564	11.50	36.79	56.42	53.37	45.24	74.00	-28.76 peak
2	8462.222	12.05	38.38	55.48	51.50	46.45	74.00	-27.55 peak
3	8778.277	12.22	38.50	55.20	52.56	48.08	68.20	-20.12 peak
4	10480.000	13.64	39.08	53.81	48.38	47.29	68.20	-20.91 peak
5	15720.000	17.22	38.58	54.08	46.00	47.72	74.00	-26.28 peak
6	pp16864.040	17.92	39.60	54.26	46.76	50.02	68.20	-18.18 peak



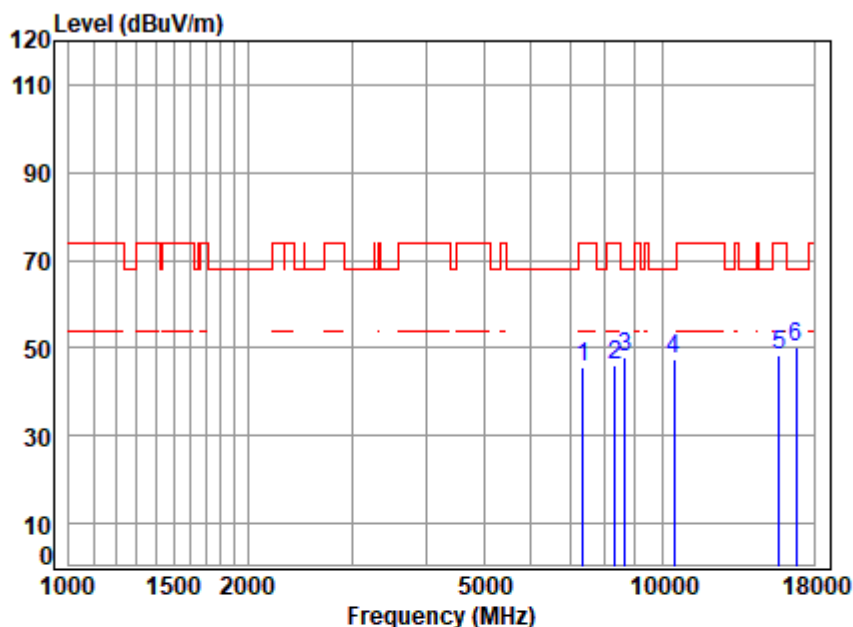
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5240 TX RSE

: 5G WIFI 11A

	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	7337.601	11.51	36.78	56.43	53.88	45.74	74.00	-28.26 peak
2	8316.953	11.74	38.17	55.61	51.83	46.13	74.00	-27.87 peak
3	8653.987	12.03	38.42	55.31	52.73	47.87	68.20	-20.33 peak
4	10480.000	13.64	39.08	53.81	48.48	47.39	68.20	-20.81 peak
5	15720.000	17.22	38.58	54.08	46.75	48.47	74.00	-25.53 peak
6	pp16795.470	17.47	39.59	54.24	47.29	50.11	68.20	-18.09 peak



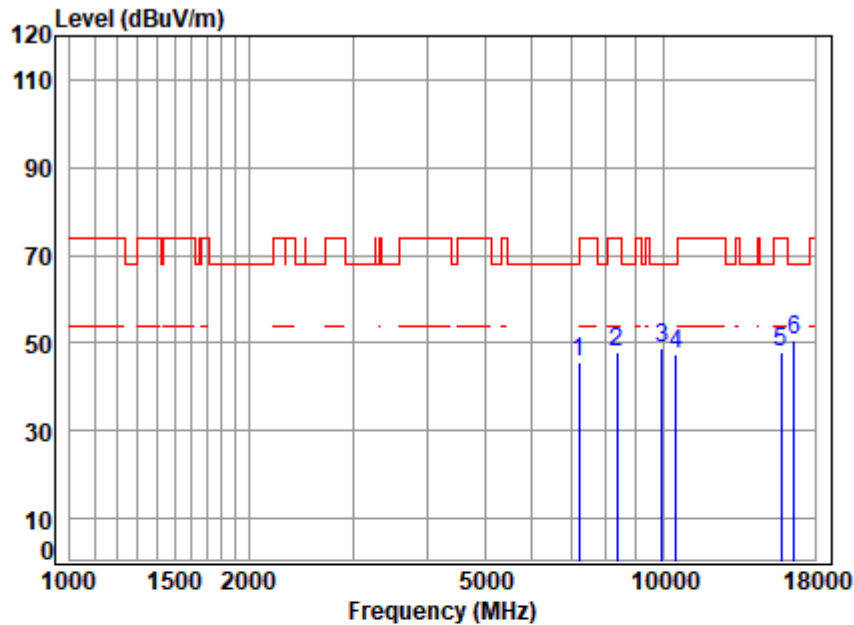
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

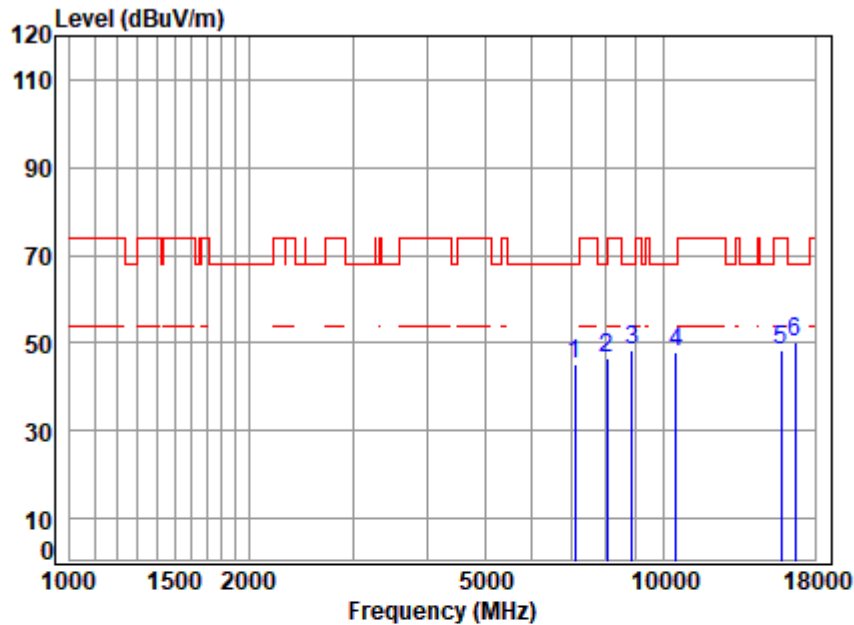


Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5260 TX RSE
: 5G WIFI 11A

	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	7218.988	11.52	36.60	56.52	53.91	45.51	68.20	-22.69 peak
2	8359.419	11.68	38.68	55.58	52.92	47.70	74.00	-26.30 peak
3	9949.918	12.90	38.90	54.15	51.13	48.78	68.20	-19.42 peak
4	10520.000	13.63	39.14	53.79	48.38	47.36	68.20	-20.84 peak
5	15780.000	17.08	38.52	54.07	46.25	47.78	74.00	-26.22 peak
6	pp16591.430	17.66	39.17	54.18	48.15	50.80	68.20	-17.40 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

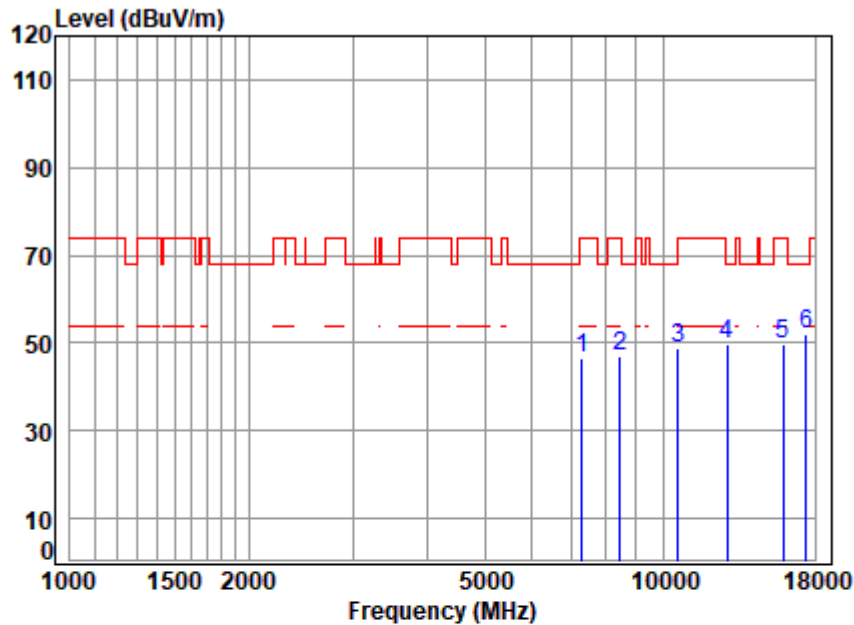


Condition: 3m VERTICAL
Job No : 04600AT/04601AT
Mode : 5260 TX RSE
: 5G WIFI 11A

	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	7087.840	11.91	36.38	56.63	53.71	45.37	68.20	-22.83 peak
2	8042.043	11.51	37.80	55.86	53.17	46.62	74.00	-27.38 peak
3	8850.100	12.23	38.50	55.13	52.87	48.47	68.20	-19.73 peak
4	10520.000	13.63	39.14	53.79	48.79	47.77	68.20	-20.43 peak
5	15780.000	17.08	38.52	54.07	46.72	48.25	74.00	-25.75 peak
6	pp16693.140	17.59	39.39	54.21	47.39	50.16	68.20	-18.04 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

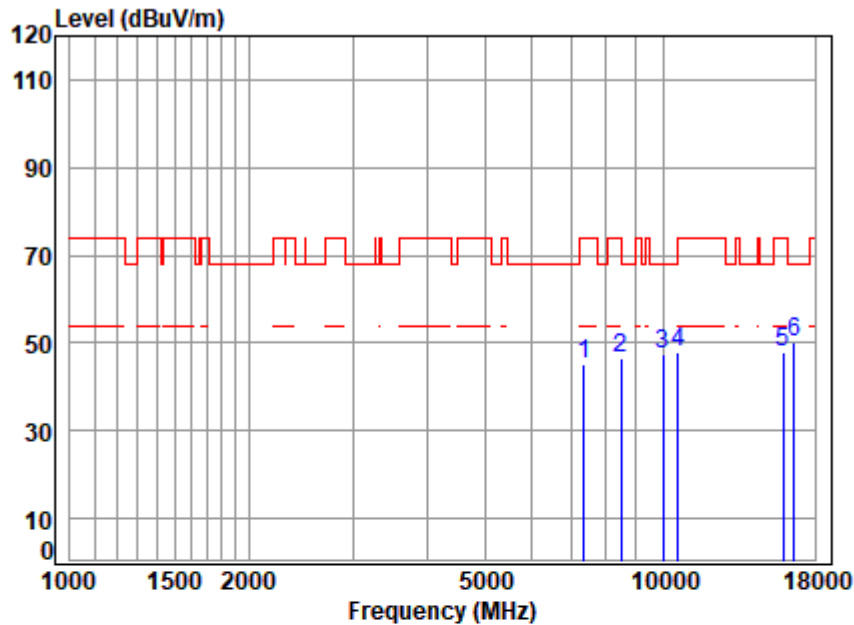


Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5300 TX RSE
: 5G WIFI 11A

	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	7285.470	11.51	36.67	56.47	54.74	46.45	74.00	-27.55 peak
2	8445.000	11.94	38.42	55.50	52.24	47.10	74.00	-26.90 peak
3	10600.000	13.59	39.30	53.74	49.53	48.68	68.20	-19.52 peak
4	12822.330	15.50	40.32	54.38	48.52	49.96	68.20	-18.24 Peak
5	15900.000	17.28	38.70	54.03	47.89	49.84	74.00	-24.16 peak
6	pp17387.310	18.10	40.37	54.38	48.01	52.10	68.20	-16.10 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

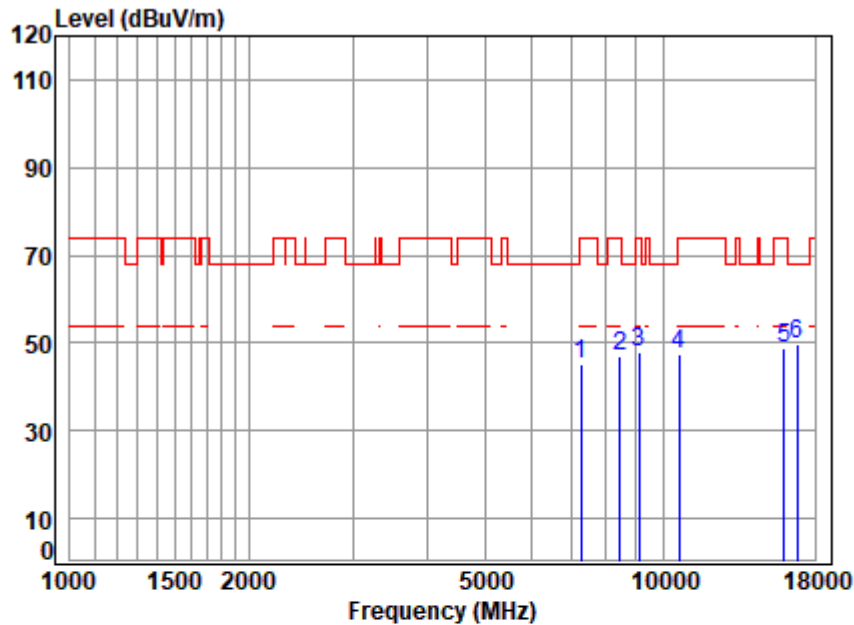
Mode : 5300 TX RSE

: 5G WIFI 11A

	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	7337.601	11.51	36.78	56.43	53.46	45.32	74.00	-28.68 peak
2	8496.769	12.29	38.31	55.45	51.61	46.76	74.00	-27.24 peak
3	10000.720	13.01	38.90	54.10	49.57	47.38	68.20	-20.82 peak
4	10600.000	13.59	39.30	53.74	48.98	48.13	68.20	-20.07 peak
5	15900.000	17.28	38.70	54.03	46.07	48.02	74.00	-25.98 peak
6	pp16608.340	17.64	39.22	54.18	47.64	50.32	68.20	-17.88 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

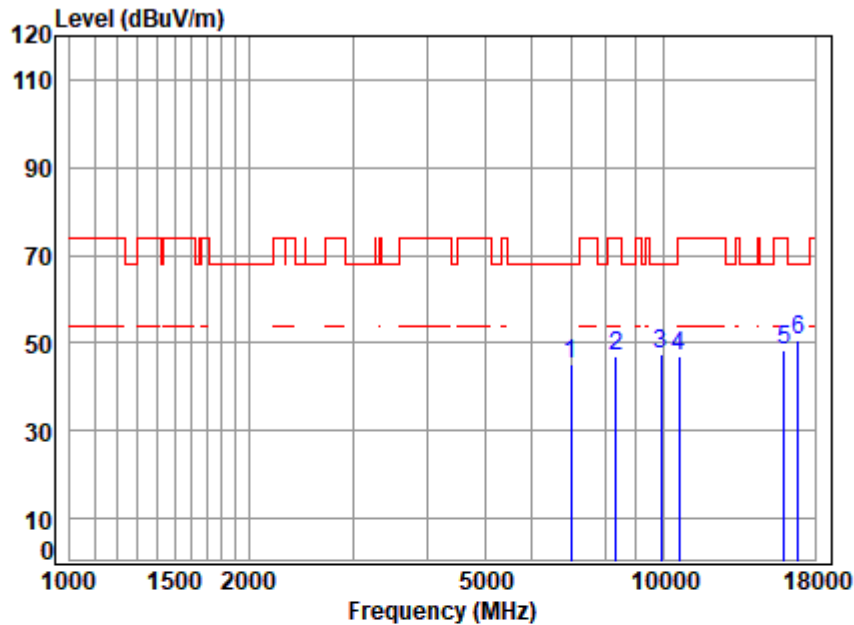


Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5320 TX RSE
: 5G WIFI 11A

	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	7270.644	11.51	36.64	56.48	53.43	45.10	74.00	-28.90 peak
2	8453.606	11.99	38.39	55.49	52.21	47.10	74.00	-26.90 peak
3	9115.418	12.15	38.63	54.90	52.15	48.03	74.00	-25.97 peak
4	10640.000	13.77	39.34	53.72	48.22	47.61	74.00	-26.39 peak
5	15960.000	17.20	38.64	54.01	46.90	48.73	74.00	-25.27 peak
6	pp16778.370	17.49	39.56	54.23	46.94	49.76	68.20	-18.44 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5320 TX RSE

: 5G WIFI 11A

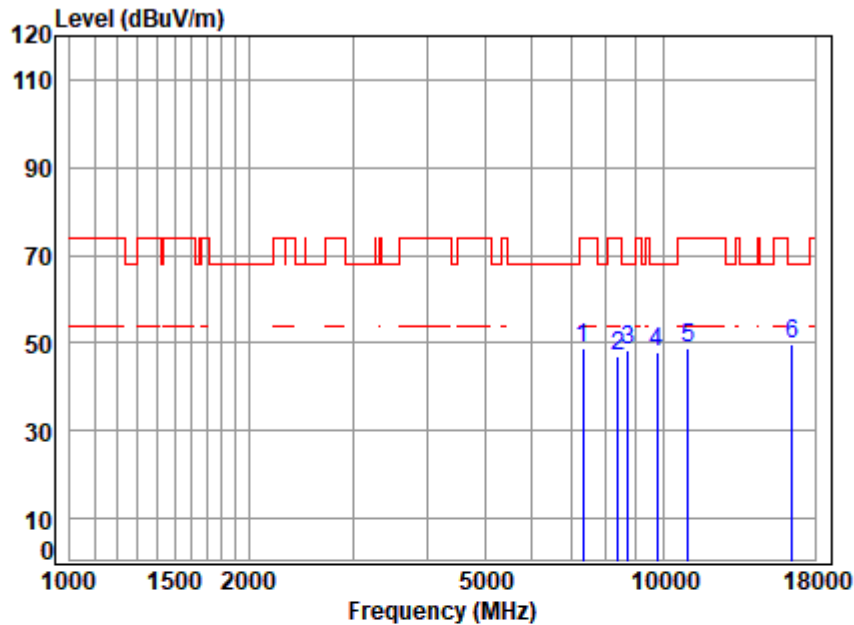
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6987.484	11.37	36.17	56.70	54.42	45.26	68.20	-22.94 peak
2	8333.913	11.72	38.44	55.60	52.43	46.99	74.00	-27.01 peak
3	9899.373	12.80	38.89	54.19	50.02	47.52	68.20	-20.68 peak
4	10640.000	13.77	39.34	53.72	47.71	47.10	74.00	-26.90 peak
5	15960.000	17.20	38.64	54.01	46.72	48.55	74.00	-25.45 peak
6	pp16881.220	18.04	39.60	54.26	47.28	50.66	68.20	-17.54 peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

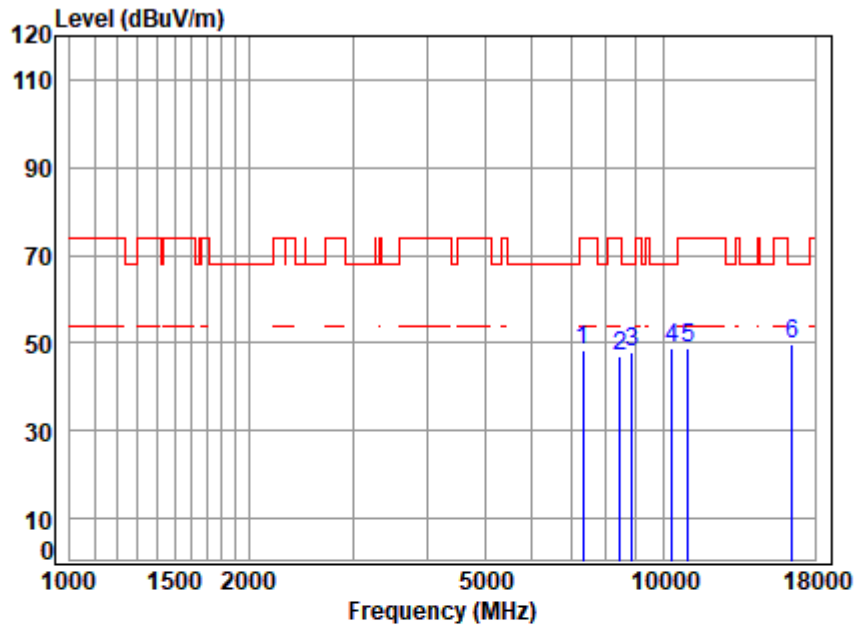


Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5500 TX RSE
: 5G WIFI 11A

	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	7330.131	11.51	36.76	56.44	57.00	48.83	74.00	-25.17 peak
2	8376.465	11.66	38.65	55.56	52.39	47.14	74.00	-26.86 peak
3	8715.911	12.12	38.57	55.26	52.75	48.18	68.20	-20.02 peak
4	9769.155	12.97	38.60	54.31	50.83	48.09	68.20	-20.11 peak
5	11000.000	14.17	39.40	53.50	48.97	49.04	74.00	-24.96 peak
6	pp16500.000	17.74	38.90	54.15	47.18	49.67	68.20	-18.53 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

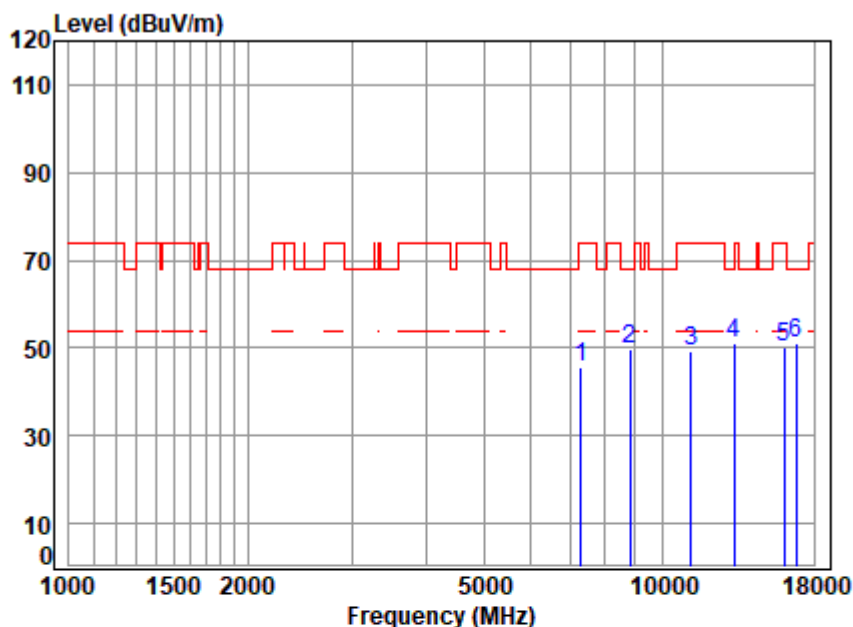


Condition: 3m VERTICAL
Job No : 04600AT/04601AT
Mode : 5500 TX RSE
: 5G WIFI 11A

	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	7330.131	11.51	36.76	56.44	56.68	48.51	74.00	-25.49 peak
2	8462.222	12.05	38.38	55.48	52.14	47.09	74.00	-26.91 peak
3	8859.119	12.23	38.52	55.13	52.26	47.88	68.20	-20.32 peak
4	10353.130	13.60	39.00	53.89	49.90	48.61	68.20	-19.59 peak
5	11000.000	14.17	39.40	53.50	48.60	48.67	74.00	-25.33 peak
6	pp16500.000	17.74	38.90	54.15	47.31	49.80	68.20	-18.40 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5600 TX RSE
: 5G WIFI 11A

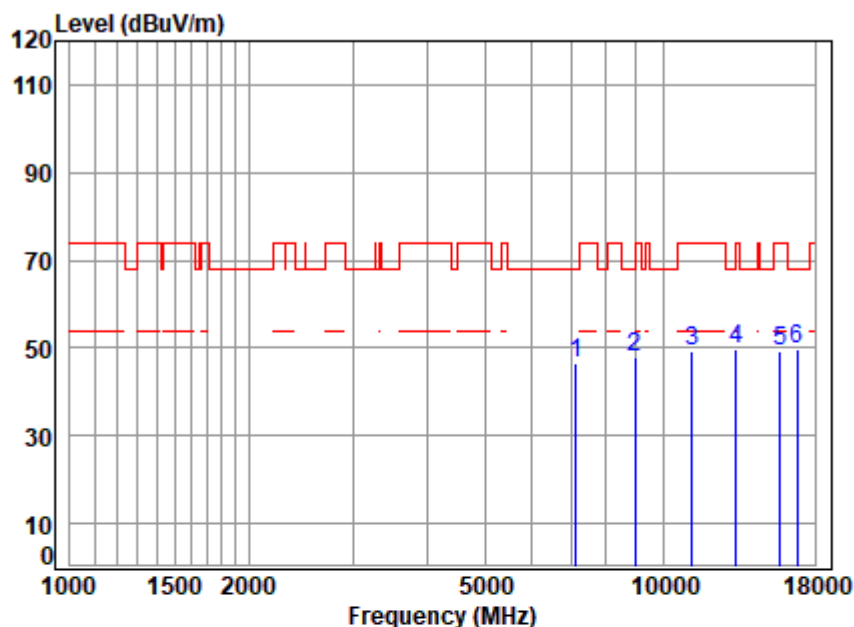
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	53.88	45.59	74.00	-28.41 Peak
2	8832.090	12.24	38.50	55.15	53.94	49.53	68.20	-18.67 peak
3	11200.000	14.76	39.60	53.56	48.51	49.31	74.00	-24.69 peak
4	pp13193.290	15.66	40.21	54.48	49.78	51.17	68.20	-17.03 Peak
5	16026.680	17.13	38.57	54.01	48.32	50.01	74.00	-23.99 Peak
6	16800.000	17.46	39.60	54.24	48.23	51.05	68.20	-17.15 peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

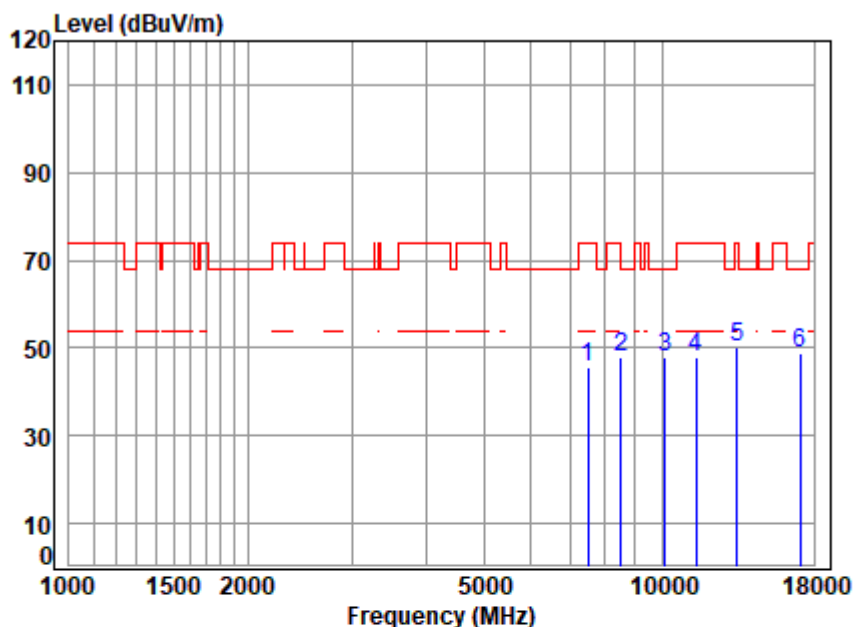
Mode : 5600 TX RSE

: 5G WIFI 11A

	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	7116.776	11.91	36.43	56.61	54.86	46.59	68.20	-21.61 Peak
2	8968.067	12.17	38.54	55.03	52.35	48.03	68.20	-20.17 peak
3	11200.000	14.76	39.60	53.56	48.47	49.27	74.00	-24.73 peak
4	13260.650	16.20	40.26	54.47	47.92	49.91	74.00	-24.09 Peak
5	15735.520	17.18	38.56	54.08	47.61	49.27	74.00	-24.73 Peak
6	pp16800.000	17.46	39.60	54.24	46.72	49.54	68.20	-18.66 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

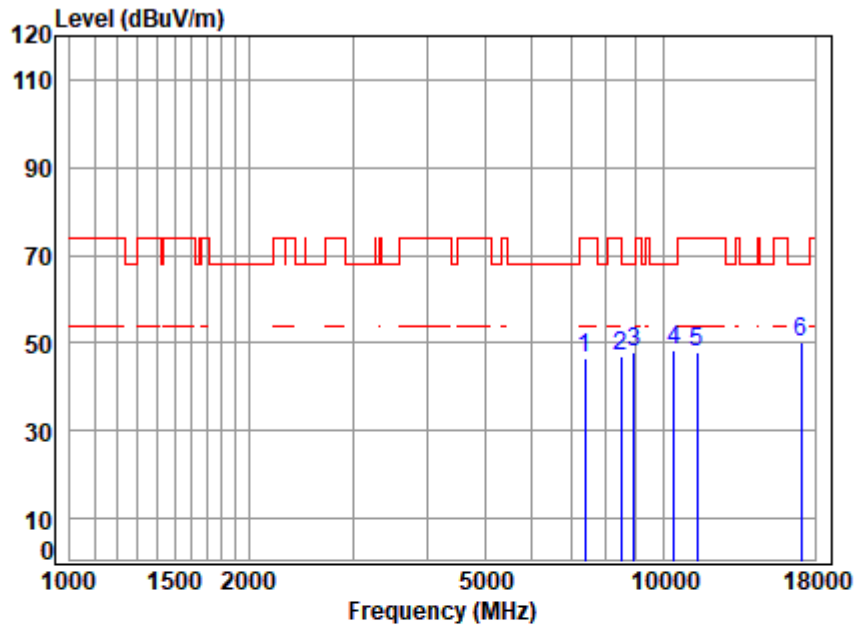


Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5700 TX RSE
: 5G WIFI 11A

	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	7496.243	11.24	36.80	56.30	53.87	45.61	74.00	-28.39 peak
2	8505.428	12.29	38.30	55.45	52.88	48.02	68.20	-20.18 peak
3	10113.400	13.25	39.10	54.03	49.57	47.89	68.20	-20.31 peak
4	11400.000	14.21	39.70	53.62	47.41	47.70	74.00	-26.30 peak
5	13341.940	16.28	40.30	54.47	48.17	50.28	74.00	-23.72 Peak
6	pp17100.000	18.47	39.80	54.32	44.98	48.93	68.20	-19.27 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

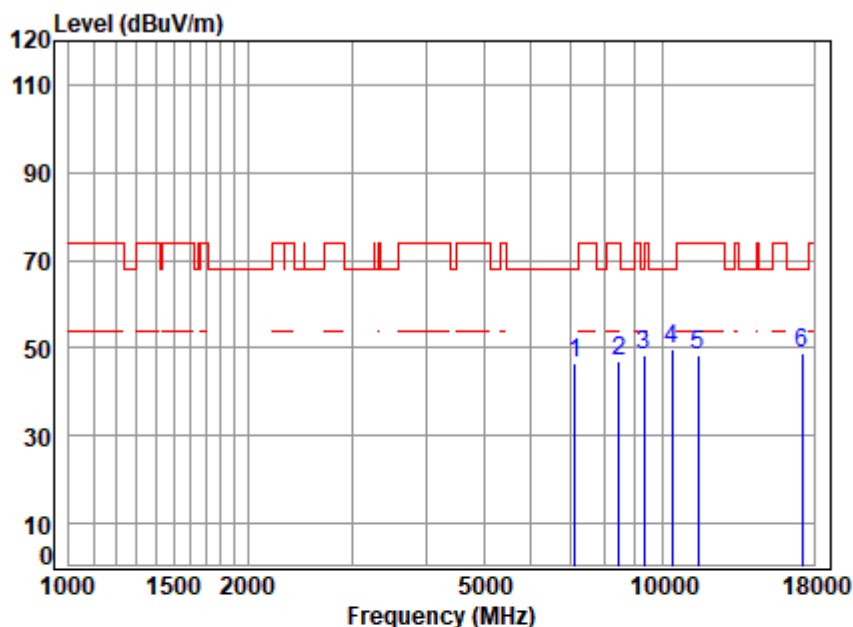


Condition: 3m VERTICAL
Job No : 04600AT/04601AT
Mode : 5700 TX RSE
: 5G WIFI 11A

	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	7375.065	11.50	36.75	56.40	54.55	46.40	74.00	-27.60 peak
2	8496.769	12.29	38.31	55.45	51.98	47.13	74.00	-26.87 peak
3	8913.427	12.21	38.57	55.08	52.29	47.99	68.20	-20.21 peak
4	10416.590	13.62	39.02	53.85	49.67	48.46	68.20	-19.74 peak
5	11400.000	14.21	39.70	53.62	47.76	48.05	74.00	-25.95 peak
6	pp17100.000	18.47	39.80	54.32	46.04	49.99	68.20	-18.21 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 04600AT/04601AT
Mode : 5745 TX RSE
: 5.8G WIFI 11A

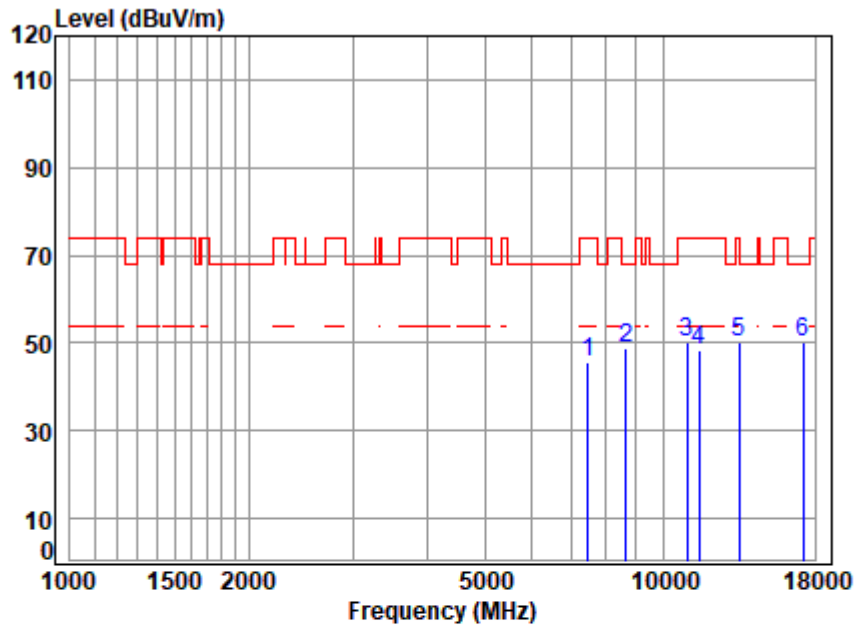
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7138.557	11.81	36.48	56.59	54.76	46.46	68.20	-21.74 peak
2	8445.000	11.94	38.42	55.50	52.23	47.09	74.00	-26.91 peak
3	9331.487	12.21	38.80	54.70	51.99	48.30	74.00	-25.70 peak
4	pp10374.240	13.61	39.00	53.88	50.84	49.57	68.20	-18.63 peak
5	11490.000	14.97	39.61	53.65	47.23	48.16	74.00	-25.84 peak
6	17235.000	17.83	40.01	54.35	45.55	49.04	68.20	-19.16 peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5745 TX RSE

: 5.8G WIFI 11A

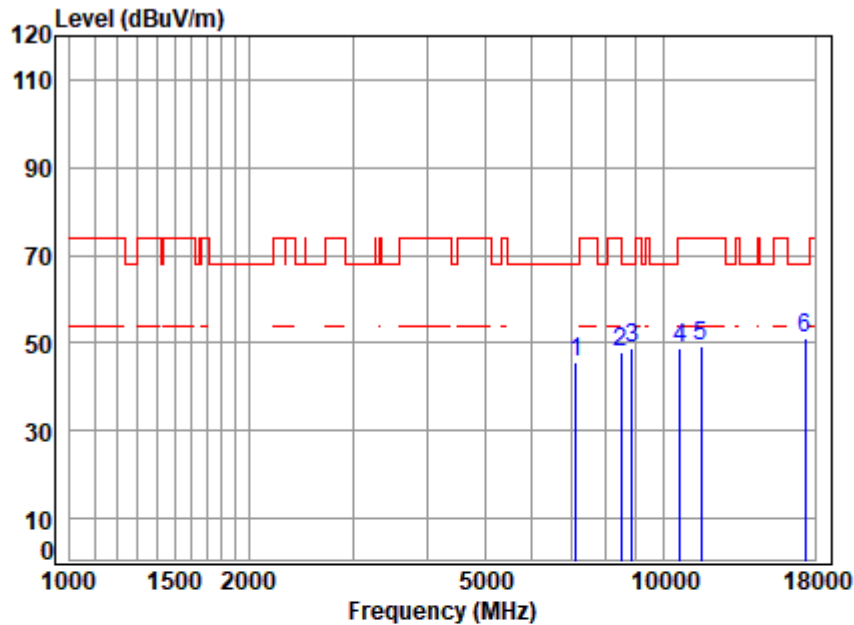
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7458.163	11.34	36.80	56.33	54.02	45.83	74.00	-28.17 peak
2	8653.987	12.03	38.42	55.31	53.53	48.67	68.20	-19.53 peak
3	10949.680	14.06	39.35	53.53	50.27	50.15	74.00	-23.85 peak
4	11490.000	14.97	39.61	53.65	47.51	48.44	74.00	-25.56 peak
5	13423.730	15.89	40.25	54.46	48.54	50.22	68.20	-17.98 Peak
6	pp17235.000	17.83	40.01	54.35	46.85	50.34	68.20	-17.86 peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

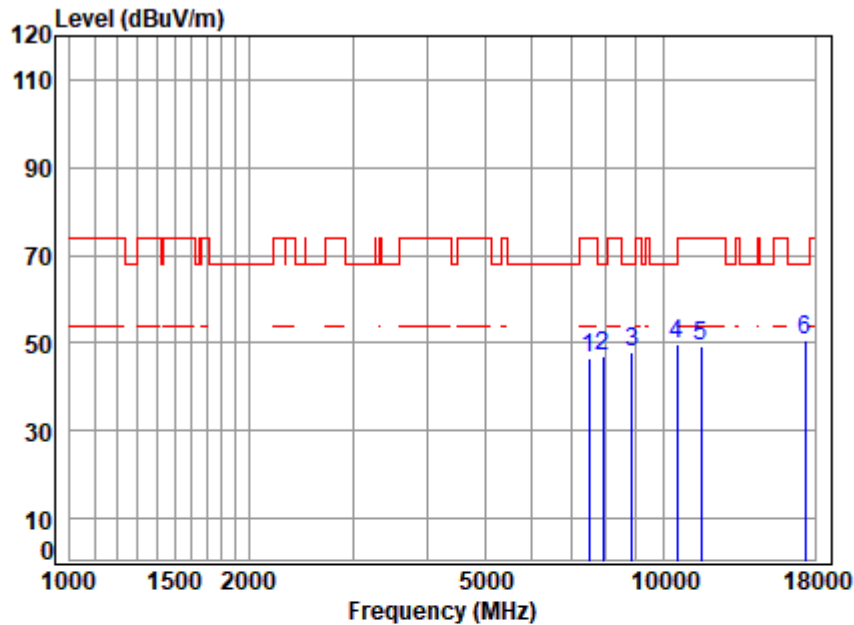
Mode : 5785 TX RSE

: 5.8G WIFI 11A

	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	7116.776	11.91	36.43	56.61	54.07	45.80	68.20	-22.40 peak
2	8488.119	12.23	38.32	55.46	53.02	48.11	74.00	-25.89 peak
3	8841.090	12.24	38.50	55.14	53.11	48.71	68.20	-19.49 peak
4	10685.250	13.97	39.39	53.69	49.27	48.94	74.00	-25.06 peak
5	11570.000	14.78	39.60	53.67	48.51	49.22	74.00	-24.78 peak
6	pp17355.000	18.00	40.31	54.37	47.01	50.95	68.20	-17.25 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5785 TX RSE

: 5.8G WIFI 11A

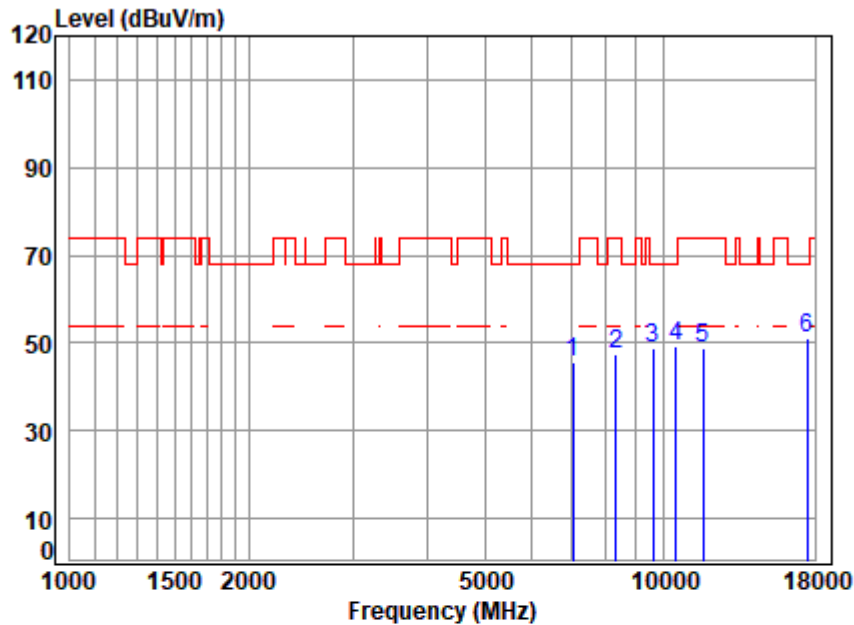
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7496.243	11.24	36.80	56.30	54.60	46.34	74.00	-27.66 peak
2	7928.178	11.55	37.66	55.96	53.89	47.14	68.20	-21.06 peak
3	8850.100	12.23	38.50	55.13	52.44	48.04	68.20	-20.16 peak
4	10566.200	13.61	39.23	53.76	50.53	49.61	68.20	-18.59 peak
5	11570.000	14.78	39.60	53.67	48.54	49.25	74.00	-24.75 peak
6	pp17355.000	18.00	40.31	54.37	46.66	50.60	68.20	-17.60 peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

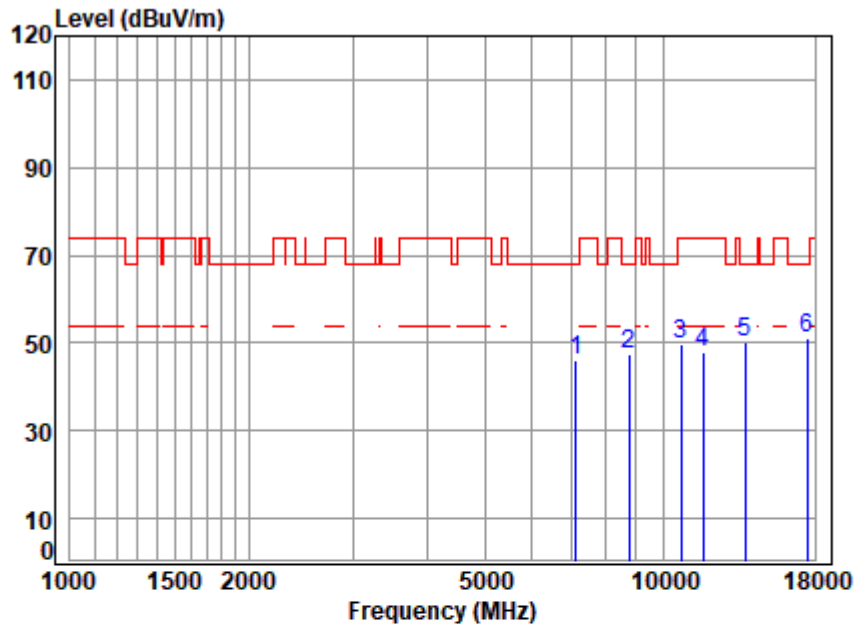
Mode : 5825 TX RSE

: 5.8G WIFI 11A

	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	7051.834	11.69	36.30	56.66	54.46	45.79	68.20	-22.41 peak
2	8333.913	11.72	38.44	55.60	52.69	47.25	74.00	-26.75 peak
3	9611.236	12.46	38.78	54.45	51.96	48.75	68.20	-19.45 peak
4	10512.520	13.63	39.13	53.79	50.09	49.06	68.20	-19.14 peak
5	11650.000	14.69	39.55	53.69	48.22	48.77	74.00	-25.23 peak
6	pp17475.000	18.35	40.78	54.40	46.48	51.21	68.20	-16.99 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 04600AT/04601AT
Mode : 5825 TX RSE
: 5.8G WIFI 11A

	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	7138.557	11.81	36.48	56.59	54.23	45.93	68.20	-22.27 peak
2	8769.341	12.20	38.50	55.21	51.99	47.48	68.20	-20.72 Peak
3	10696.140	14.02	39.40	53.68	50.15	49.89	74.00	-24.11 peak
4	11650.000	14.69	39.55	53.69	47.22	47.77	74.00	-26.23 peak
5	13713.950	16.35	39.99	54.43	48.49	50.40	68.20	-17.80 Peak
6	pp17475.000	18.35	40.78	54.40	46.30	51.03	68.20	-17.17 peak

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: ANSI C63.10 (2013) Section 6.10.5

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:

Temperature: 22.2 °C

Humidity: 60.5 % RH

Atmospheric Pressure: 1020 mbar



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

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7.5.2 Test Mode Description

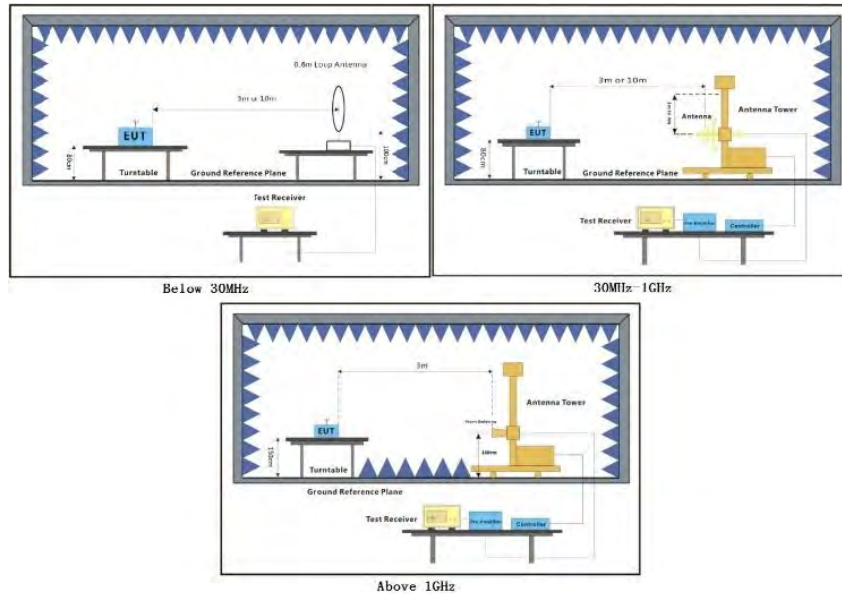
Pre-scan / Final test	Mode Code	Description
Pre-scan	03	Charge + TX mode (U-NII-1)_Keep the EUT1 in Charge and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ 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	04	Charge + TX mode (U-NII-2A)_Keep the EUT1 in Charge 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	05	Charge + TX mode (U-NII-2C)_Keep the EUT1 in Charge 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	06	Charge + TX mode (U-NII-3)_Keep the EUT1 in Charge 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	07	Charge + TX mode (U-NII-1)_Keep the EUT2 in Charge 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	08	Charge + TX mode (U-NII-2A)_Keep the EUT2 in Charge 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	09	Charge + TX mode (U-NII-2C)_Keep the EUT2 in Charge 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-3)_Keep the EUT2 in Charge 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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7.5.3 Test Setup Diagram



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.

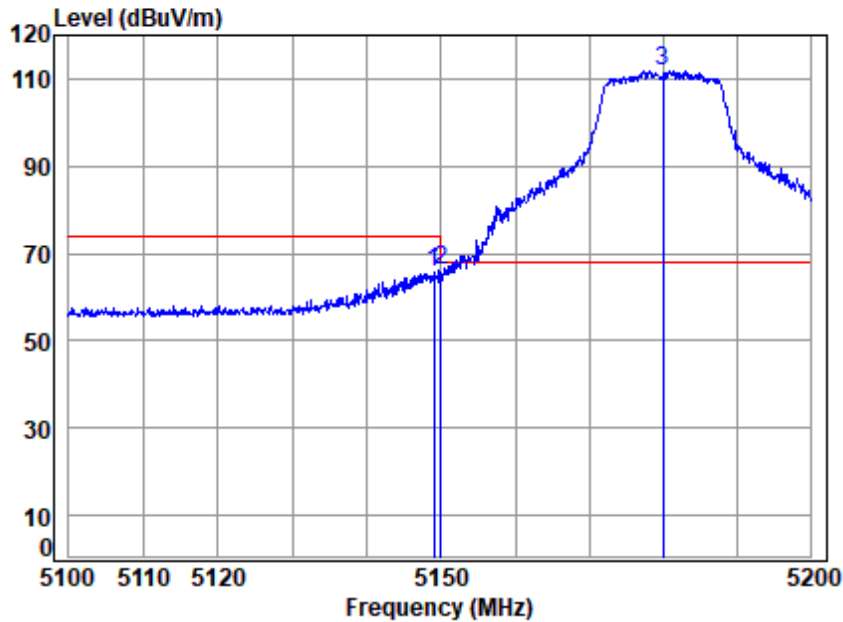
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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 $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5180 Band edge

: 5G WIFI 11A

	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	5149.057	10.14	32.40	30.84	53.83	65.53	74.00 -8.47 peak
2	5149.980	10.14	32.40	30.84	54.36	66.06	74.00 -7.94 peak
3	pp 5180.000	10.25	32.46	30.83	100.10	111.98	68.20 43.78 peak



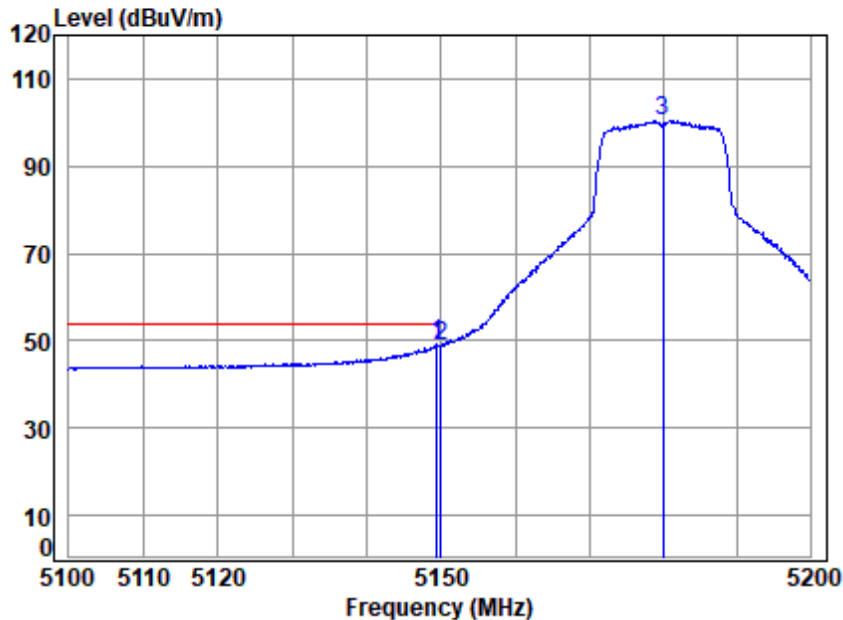
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5180 Band edge

: 5G WIFI 11A

		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	5149.458	10.14	32.40	30.84	37.37	49.07	54.00	-4.93	Average
2	5149.958	10.14	32.40	30.84	37.07	48.77	54.00	-5.23	Average
3	5180.000	10.26	32.46	30.83	88.55	100.44	-----	-----	Average



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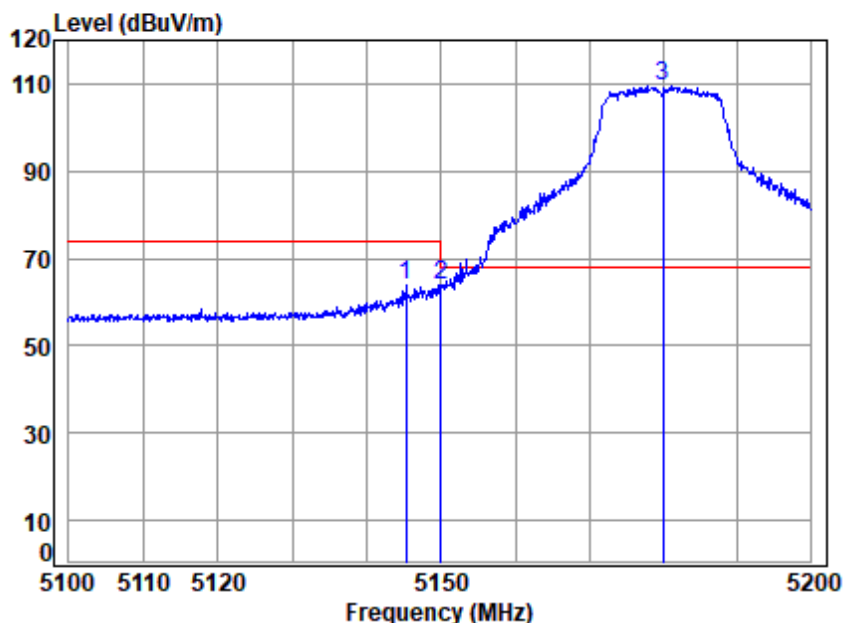
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5180 Band edge

: 5G WIFI 11A

	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	5145.259	10.12	32.39	30.84	52.01	63.68	74.00	-10.32 Peak
2	5149.980	10.14	32.40	30.84	52.40	64.10	74.00	-9.90 Peak
3	pp 5180.000	10.25	32.46	30.83	97.45	109.33	68.20	41.13 Peak



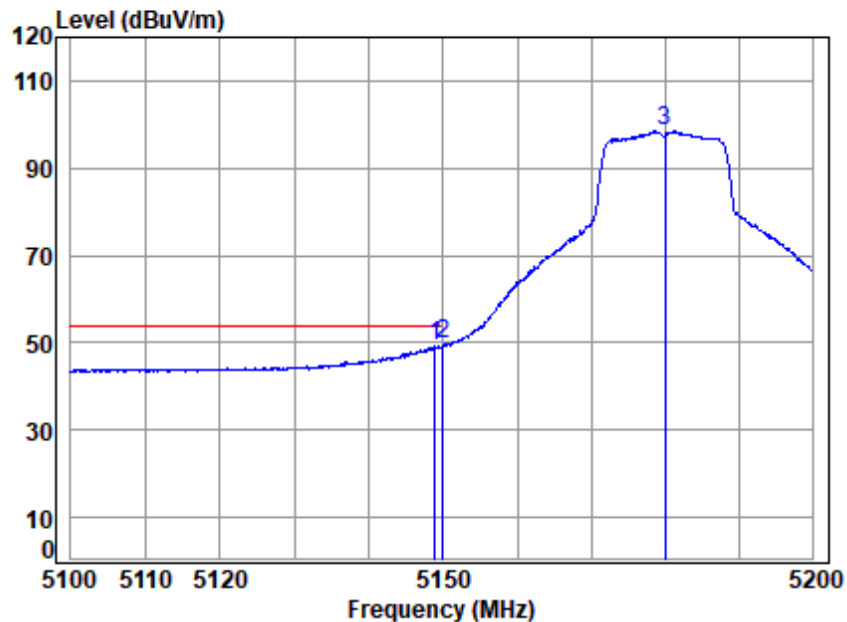
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

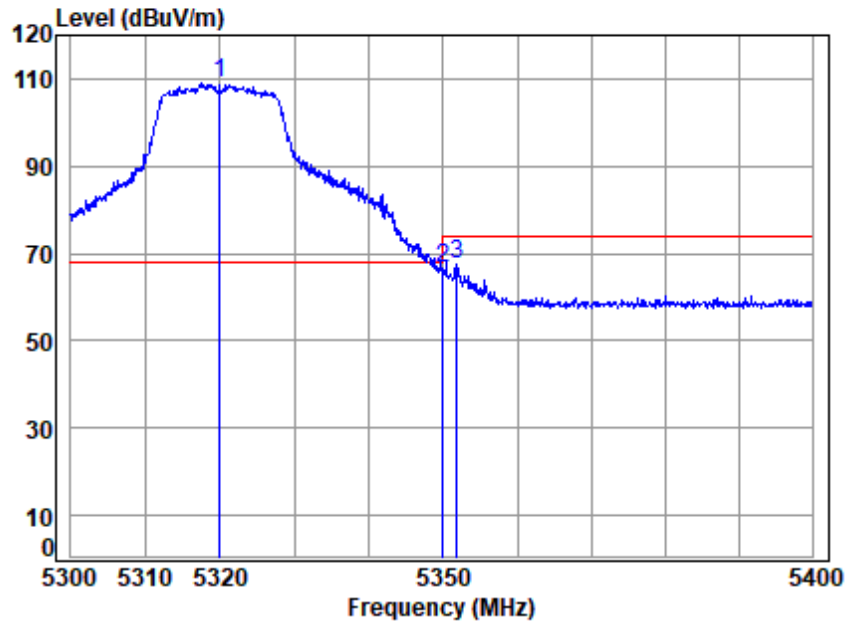
Mode : 5180 Band edge

: 5G WIFI 11A

		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	5148.857	10.14	32.40	30.84	37.44	49.14	54.00	-4.86	Average
2 pp	5149.980	10.14	32.40	30.84	38.14	49.84	54.00	-4.16	Average
3	5180.000	10.25	32.46	30.83	86.53	98.41	-----	-----	Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5320 Band edge

: 5G WIFI 11A

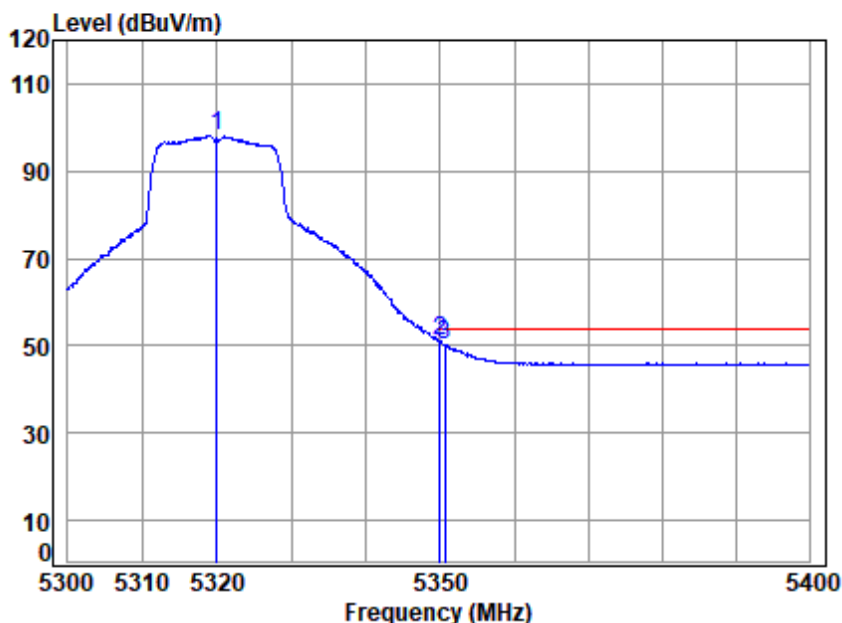
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	96.61	108.93	68.20	40.73	peak
2	5350.020	10.45	32.80	30.76	54.17	66.66	74.00	-7.34	peak
3	5351.867	10.46	32.80	30.76	55.03	67.53	74.00	-6.47	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

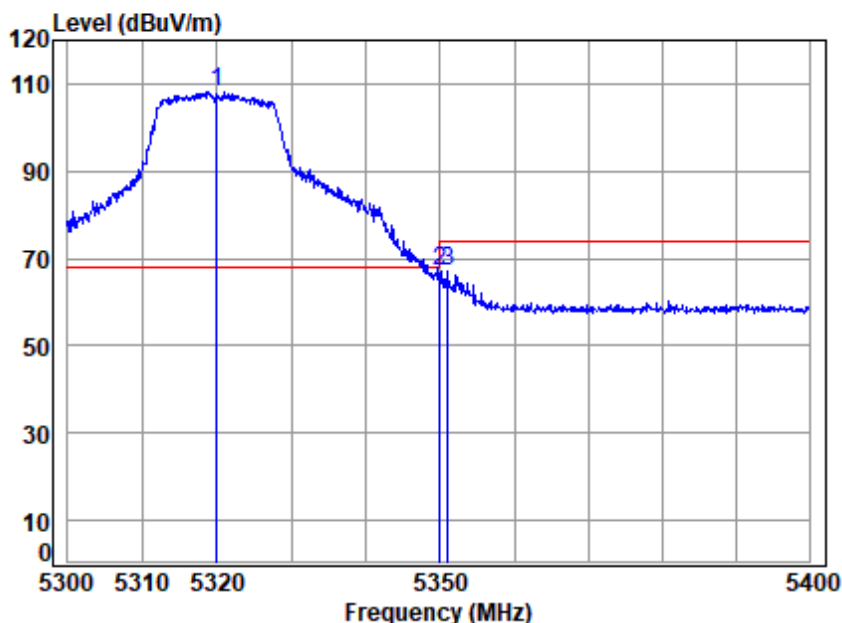
Mode : 5320 Band edge

: 5G WIFI 11A

		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	5320.000	10.35	32.74	30.77	85.76	98.08	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	38.51	51.00	54.00	-3.00	Average
3	5350.667	10.45	32.80	30.76	37.88	50.37	54.00	-3.63	Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5320 Band edge

: 5G WIFI 11A

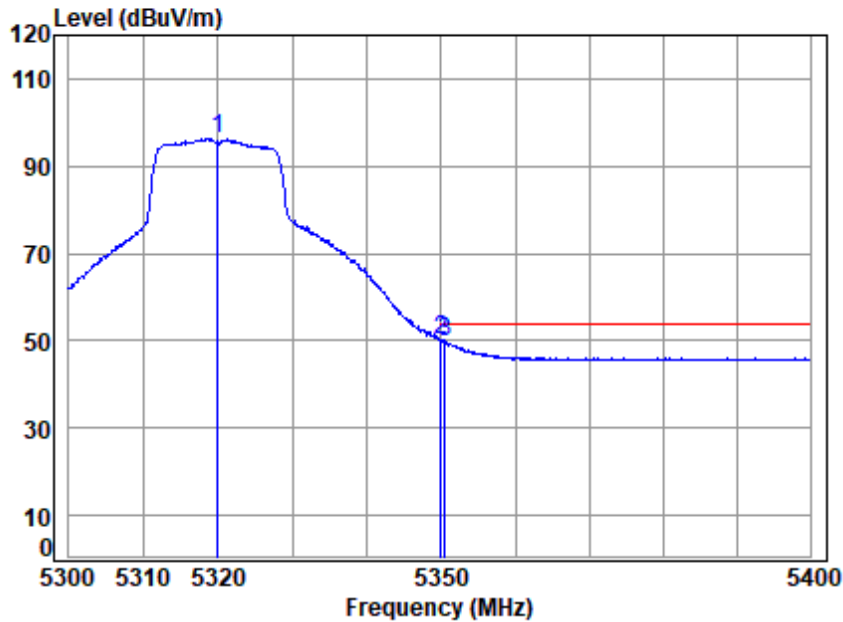
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.82	108.14	68.20	39.94	Peak
2	5350.020	10.45	32.80	30.76	54.77	67.26	74.00	-6.74	Peak
3	5351.066	10.45	32.80	30.76	54.67	67.16	74.00	-6.84	Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

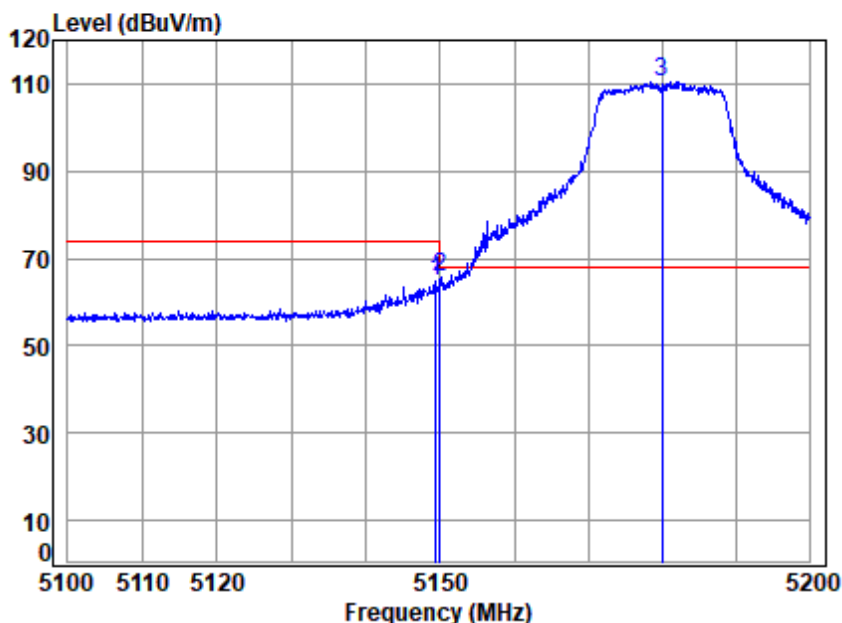
Mode : 5320 Band edge

: 5G WIFI 11A

		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	5320.000	10.35	32.74	30.77	83.88	96.20	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	37.80	50.29	54.00	-3.71	Average
3	5350.566	10.45	32.80	30.76	37.38	49.87	54.00	-4.13	Average



Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

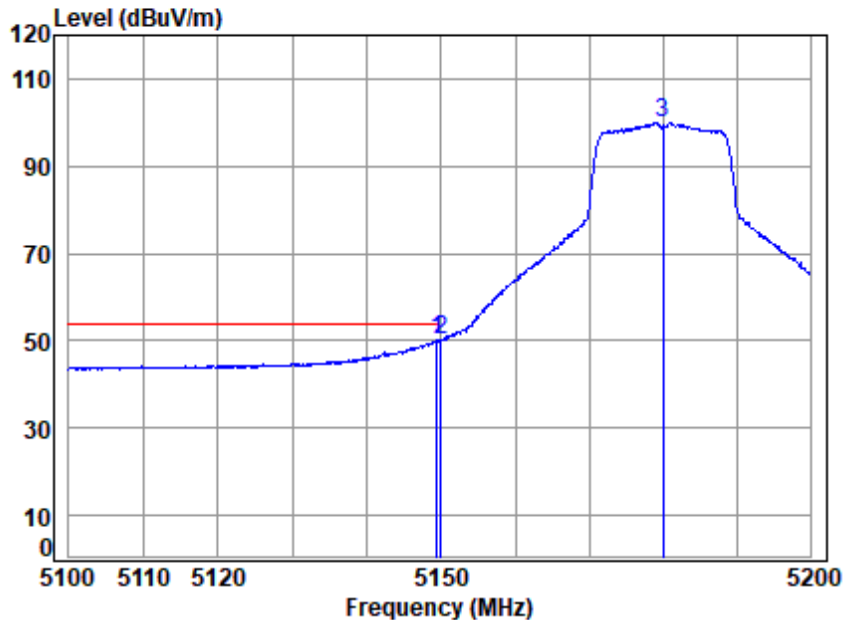
Mode : 5180 Band edge

: 5G WIFI 11N20

		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	5149.458	10.14	32.40	30.84	52.96	64.66	74.00	-9.34	peak
2	5149.980	10.14	32.40	30.84	54.00	65.70	74.00	-8.30	peak
3	5180.000	10.25	32.46	30.83	98.66	110.54	68.20	42.34	peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5180 Band edge
: 5G WIFI 11N20

		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	5149.357	10.14	32.40	30.84	38.48	50.18	54.00	-3.82	Average
2 pp	5149.980	10.14	32.40	30.84	38.68	50.38	54.00	-3.62	Average
3	5180.000	10.25	32.46	30.83	88.08	99.96	-----	-----	Average



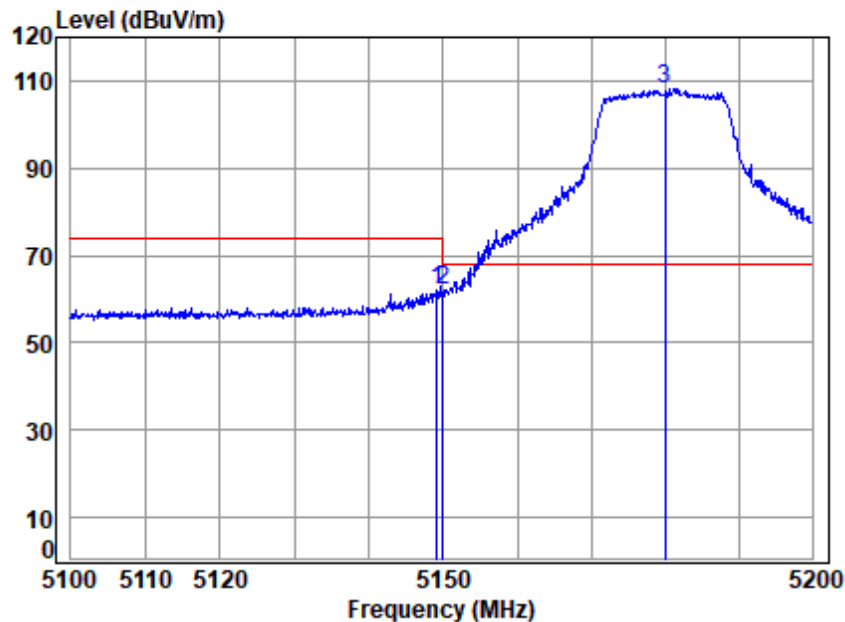
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5180 Band edge

: 5G WIFI 11N20

		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	5149.157	10.14	32.40	30.84	50.16	61.86	74.00	-12.14	Peak
2	5149.980	10.14	32.40	30.84	50.29	61.99	74.00	-12.01	Peak
3	5180.000	10.25	32.46	30.83	96.37	108.25	68.20	40.05	Peak



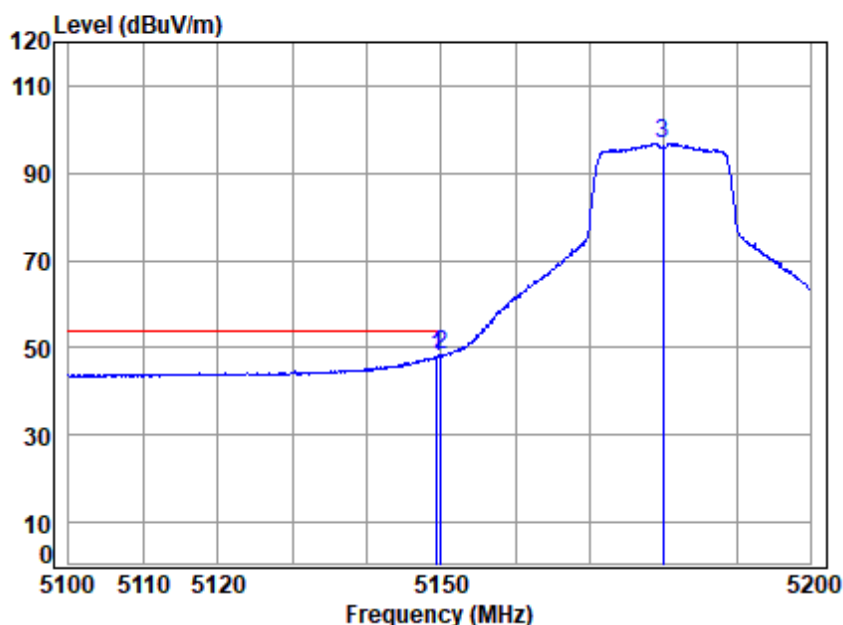
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

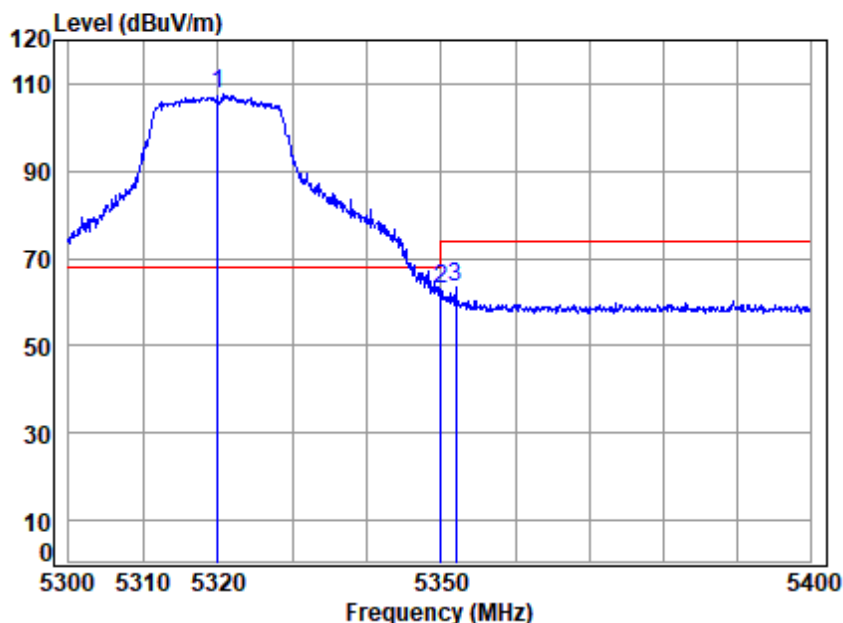
Mode : 5180 Band edge

: 5G WIFI 11N20

		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	5149.458	10.14	32.40	30.84	36.33	48.03	54.00	-5.97 Average
2 pp	5149.980	10.14	32.40	30.84	36.56	48.26	54.00	-5.74 Average
3	5180.000	10.25	32.46	30.83	84.97	96.85	-----	----- Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5320 Band edge

: 5G WIFI 11N20

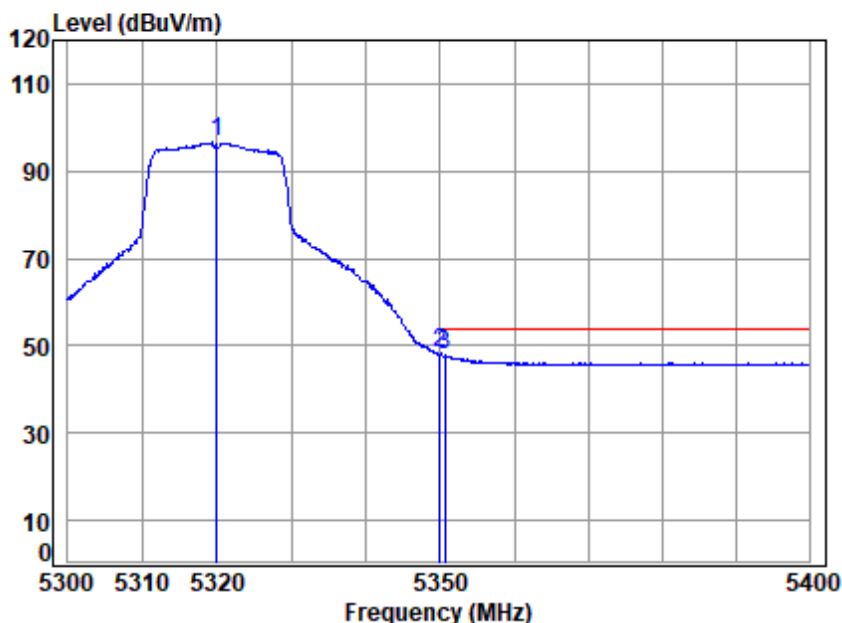
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.45	107.77	68.20	39.57	peak
2	5350.020	10.45	32.80	30.76	50.33	62.82	74.00	-11.18	peak
3	5351.967	10.46	32.80	30.76	50.96	63.46	74.00	-10.54	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

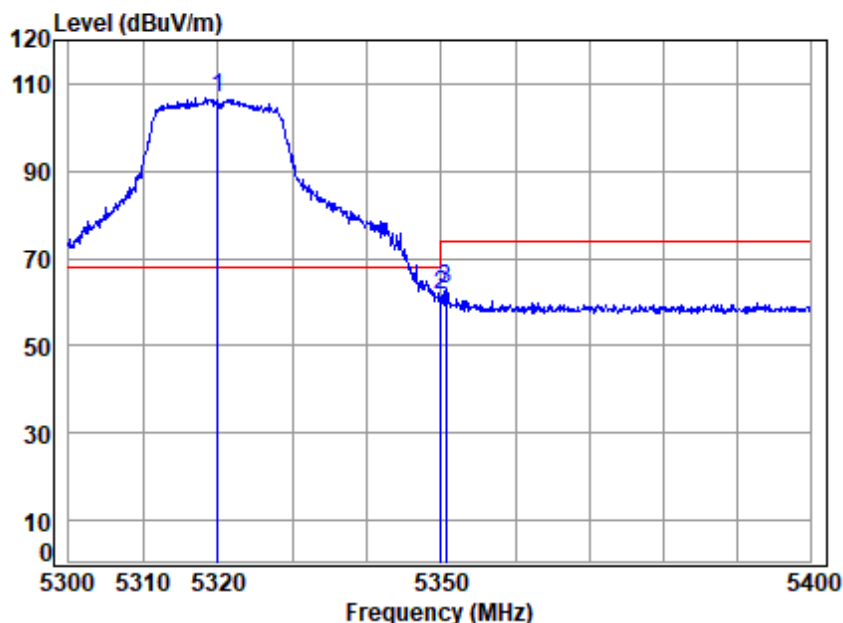
Mode : 5320 Band edge

: 5G WIFI 11N20

		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	5320.000	10.35	32.74	30.77	84.23	96.55	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	35.88	48.37	54.00	-5.63	Average
3	5350.667	10.45	32.80	30.76	35.22	47.71	54.00	-6.29	Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5320 Band edge

: 5G WIFI 11N20

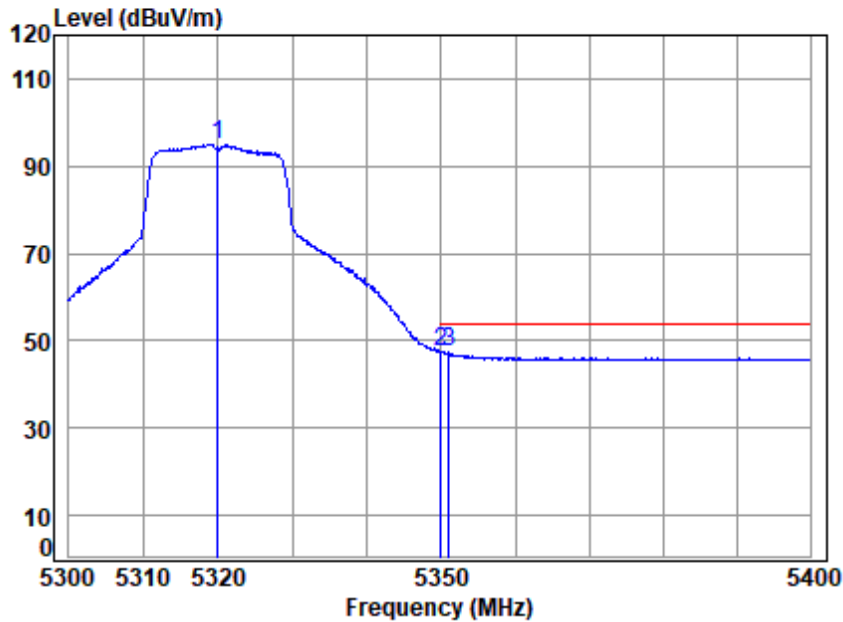
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	94.25	106.57	68.20	38.37	Peak
2	5350.020	10.45	32.80	30.76	49.02	61.51	74.00	-12.49	Peak
3	5350.667	10.45	32.80	30.76	50.37	62.86	74.00	-11.14	Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

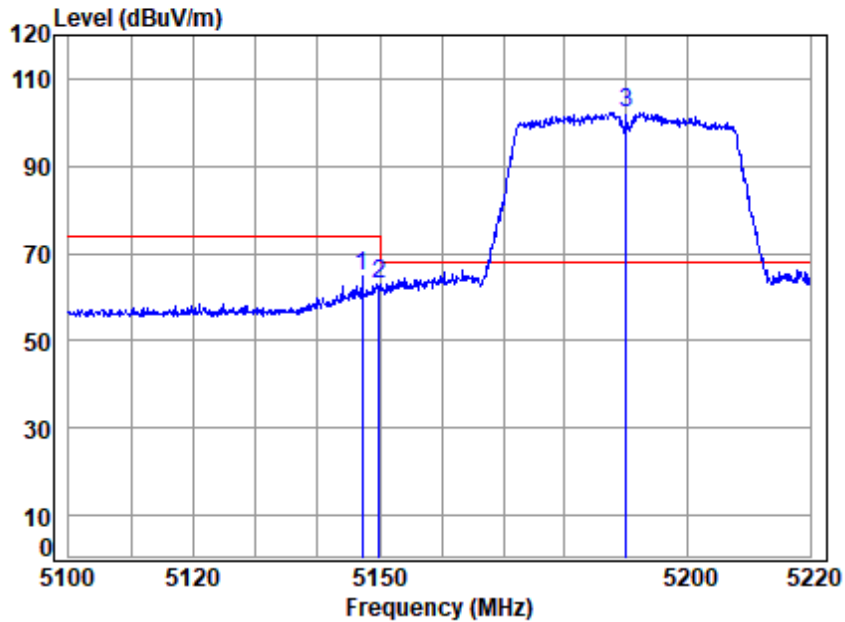
Mode : 5320 Band edge

: 5G WIFI 11N20

		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	5320.000	10.35	32.74	30.77	82.60	94.92	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	35.07	47.56	54.00	-6.44	Average
3	5351.066	10.45	32.80	30.76	34.76	47.25	54.00	-6.75	Average



Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

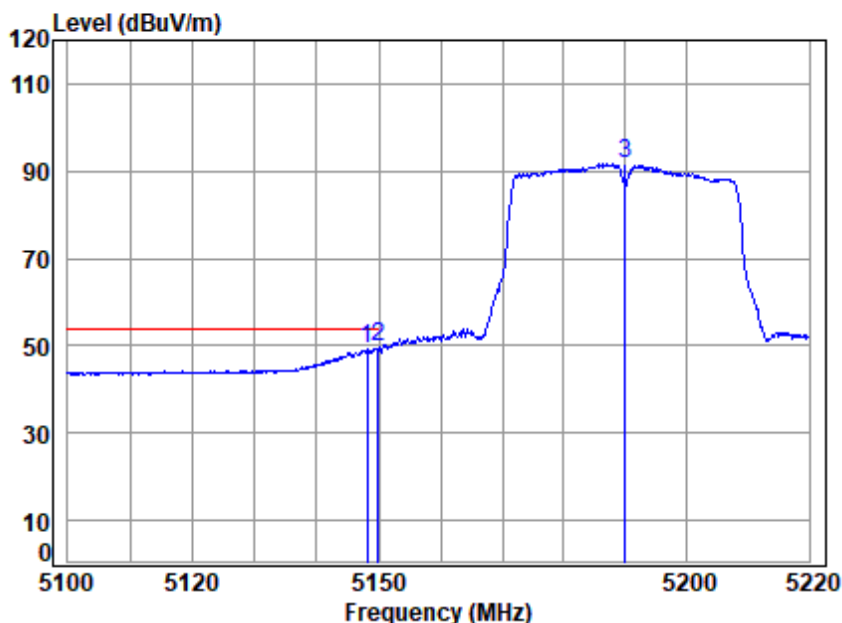
Mode : 5190 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.187	10.13	32.39	30.84	52.98	64.66	74.00	-9.34	peak
2	5149.980	10.14	32.40	30.84	51.21	62.91	74.00	-11.09	peak
3	pp 5190.000	10.29	32.48	30.82	90.47	102.42	68.20	34.22	peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5190 Band edge

: 5G WIFI 11N40

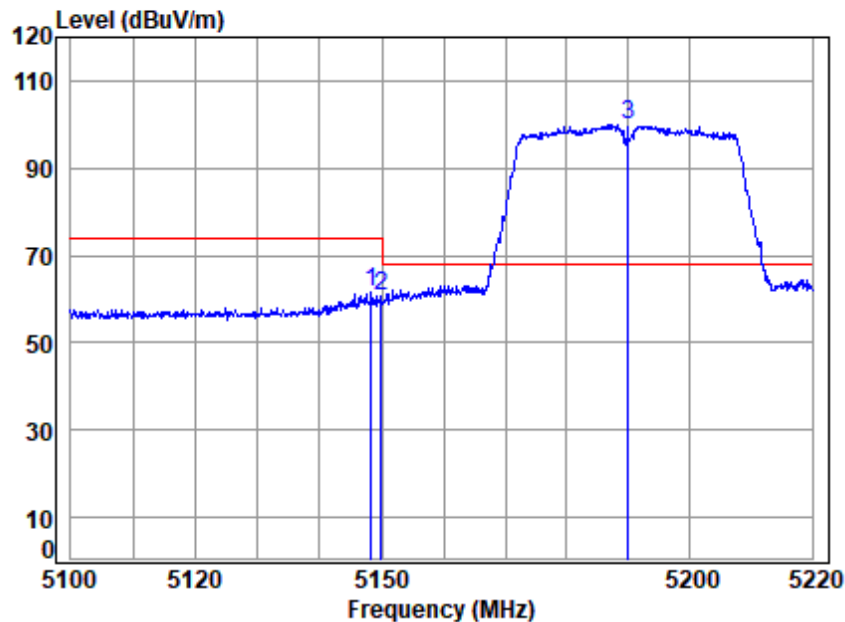
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.144	10.13	32.40	30.84	37.66	49.35	54.00	-4.65 Average
2 pp	5149.980	10.14	32.40	30.84	37.83	49.53	54.00	-4.47 Average
3	5190.000	10.29	32.48	30.82	79.82	91.77	-----	----- Average



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5190 Band edge

: 5G WIFI 11N40

	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	5148.264	10.13	32.40	30.84	49.91	61.60	74.00	-12.40 Peak
2	5149.980	10.14	32.40	30.84	49.00	60.70	74.00	-13.30 Peak
3	pp 5190.000	10.29	32.48	30.82	88.14	100.09	68.20	31.89 Peak



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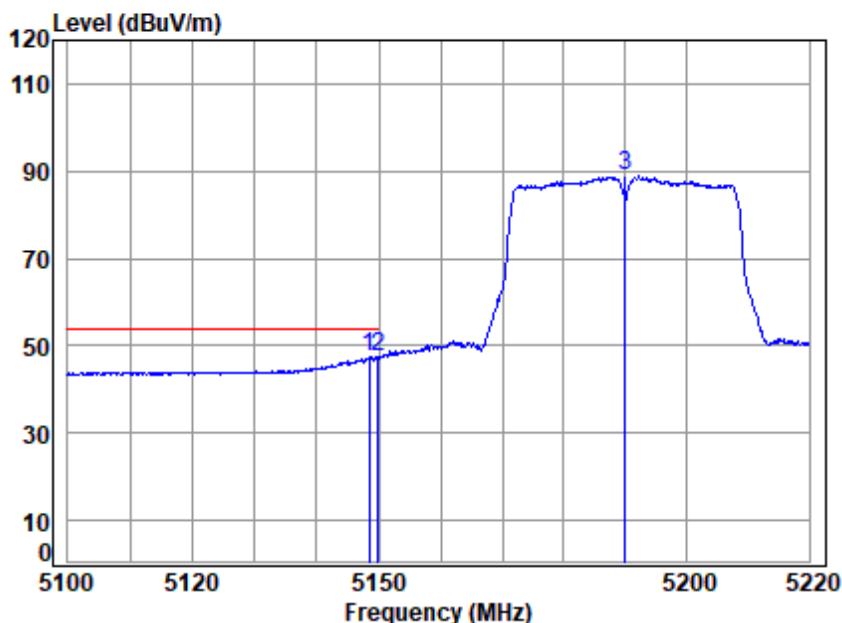
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5190 Band edge

: 5G WIFI 11N40

		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	5148.503	10.13	32.40	30.84	35.72	47.41	54.00	-6.59	Average
2	5149.980	10.14	32.40	30.84	35.70	47.40	54.00	-6.60	Average
3	5190.000	10.29	32.48	30.82	76.95	88.90	-----	-----	Average



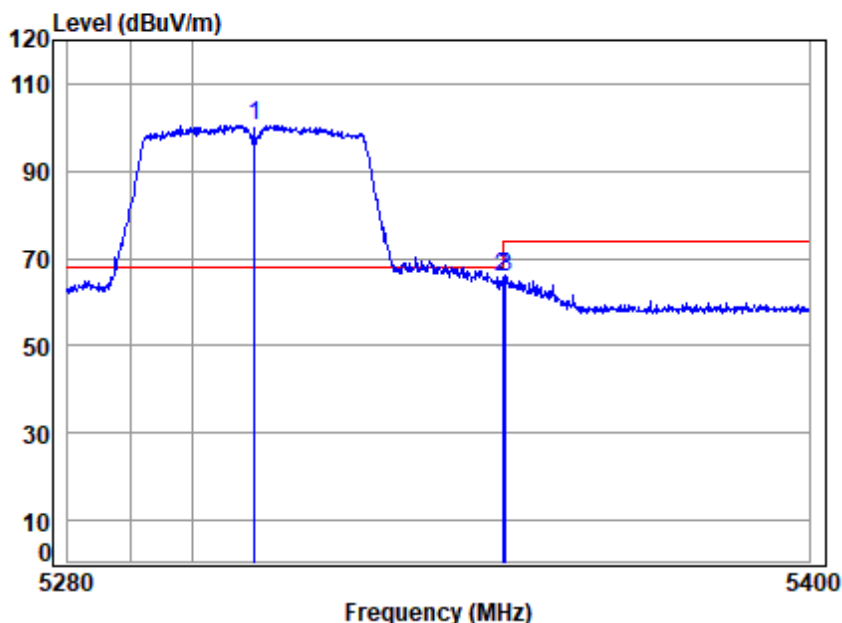
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

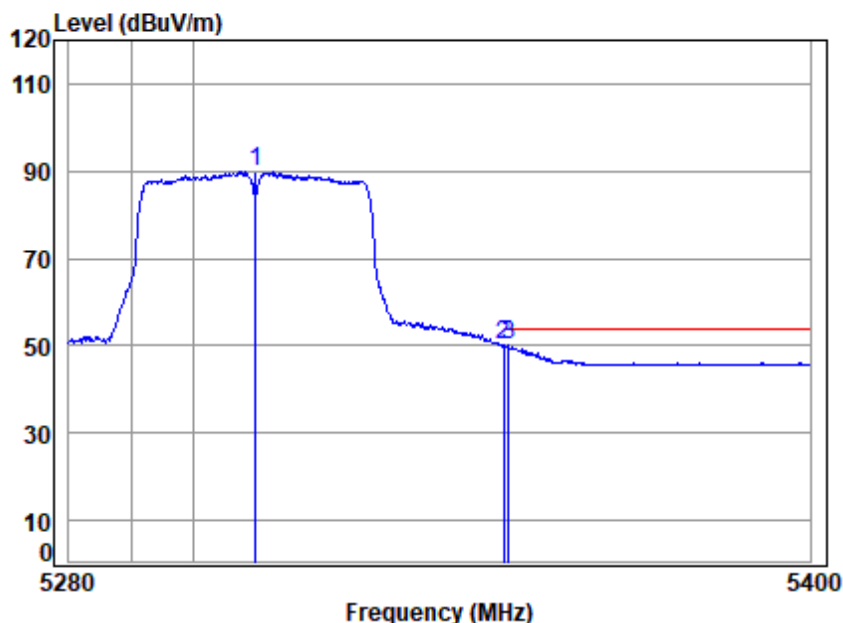
Mode : 5310 Band edge

: 5G WIFI 11N40

		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	5310.000	10.31	32.72	30.78	88.35	100.60	68.20	32.40	peak
2	5350.020	10.45	32.80	30.76	53.04	65.53	74.00	-8.47	peak
3	5350.594	10.45	32.80	30.76	53.28	65.77	74.00	-8.23	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5310 Band edge

: 5G WIFI 11N40

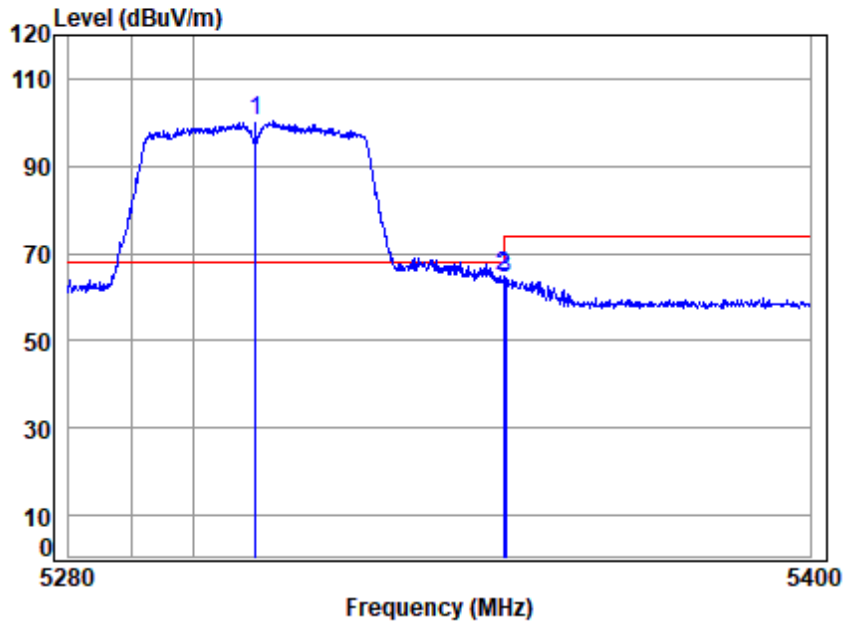
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	77.56	89.81	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	37.91	50.40	54.00	-3.60	Average
3	5350.834	10.45	32.80	30.76	37.55	50.04	54.00	-3.96	Average



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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

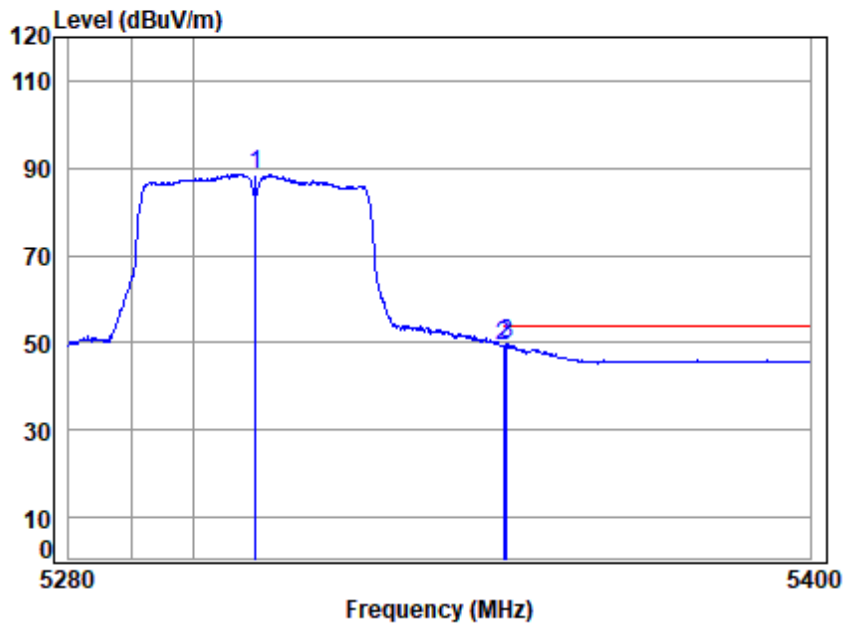
Job No : 04600AT/04601AT

Mode : 5310 Band edge
: 5G WIFI 11N40

		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	5310.000	10.31	32.72	30.78	87.98	100.23	68.20	32.03	Peak
2	5350.020	10.45	32.80	30.76	52.20	64.69	74.00	-9.31	Peak
3	5350.474	10.45	32.80	30.76	51.92	64.41	74.00	-9.59	Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

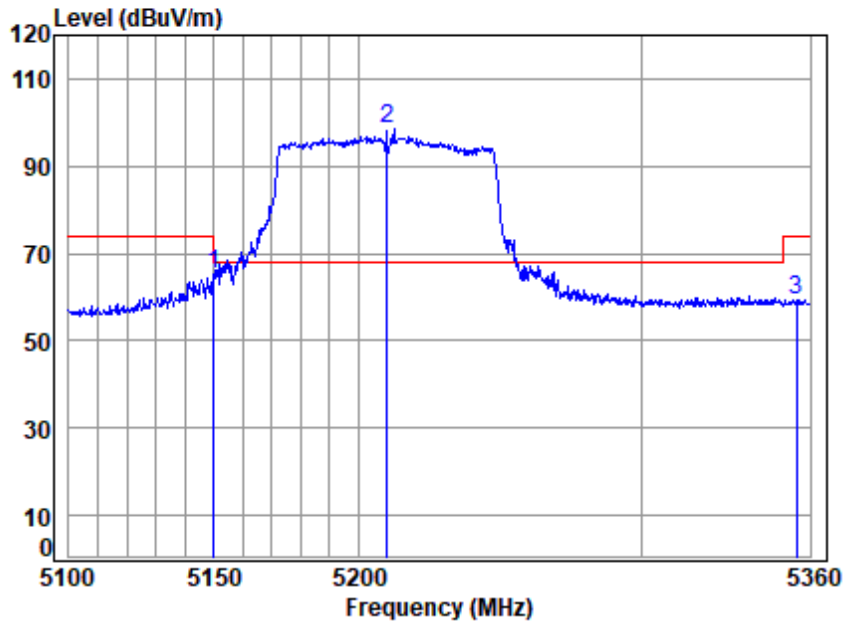
Mode : 5310 Band edge

: 5G WIFI 11N40

	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 5310.000	10.31	32.72	30.78	76.38	88.63	-----	----- Average
2 5350.020	10.45	32.80	30.76	36.97	49.46	54.00	-4.54 Average
3 pp 5350.594	10.45	32.80	30.76	37.32	49.81	54.00	-4.19 Average



Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

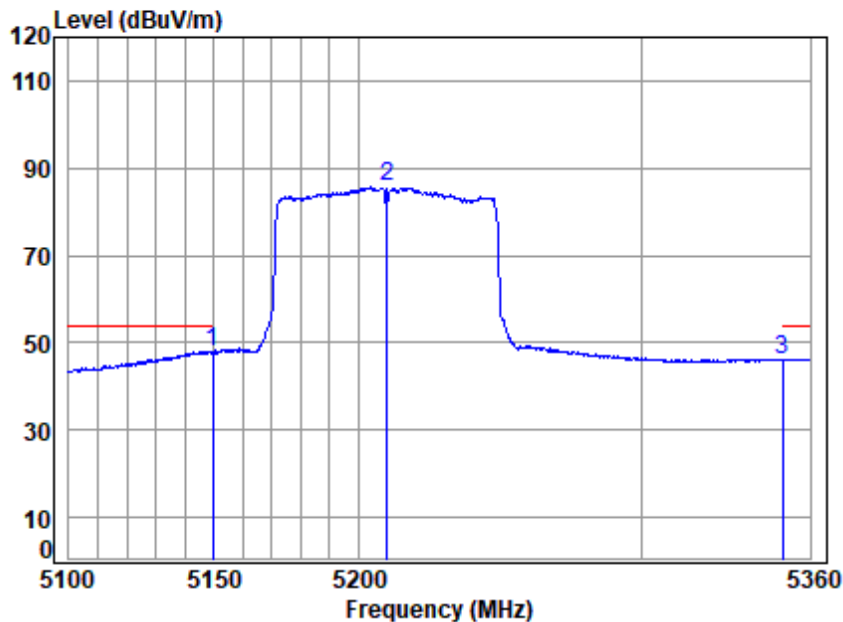
Job No : 04600AT/04601AT

Mode : 5210 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	5149.947	10.14	32.40	30.84	53.75	65.45	74.00	-8.55	peak
2 pp	5210.000	10.32	32.52	30.82	86.46	98.48	68.20	30.28	peak
3	5355.205	10.47	32.80	30.76	47.00	59.51	74.00	-14.49	peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

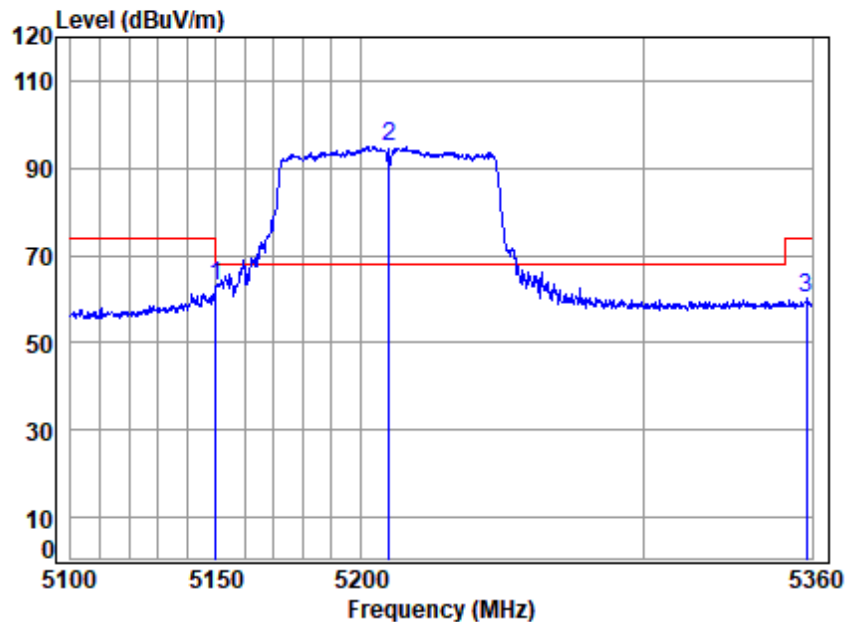
Job No : 04600AT/04601AT

Mode : 5210 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	5149.435	10.14	32.40	30.84	36.33	48.03	54.00	-5.97	Average
2	5210.000	10.32	32.52	30.82	73.64	85.66	-----	-----	Average
3	5350.148	10.45	32.80	30.76	33.77	46.26	54.00	-7.74	Average



Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5210 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	5149.690	10.14	32.40	30.84	51.14	62.84	74.00	-11.16	Peak
2 pp	5210.000	10.32	32.52	30.82	82.80	94.82	68.20	26.62	Peak
3	5358.135	10.48	32.80	30.76	47.70	60.22	74.00	-13.78	Peak



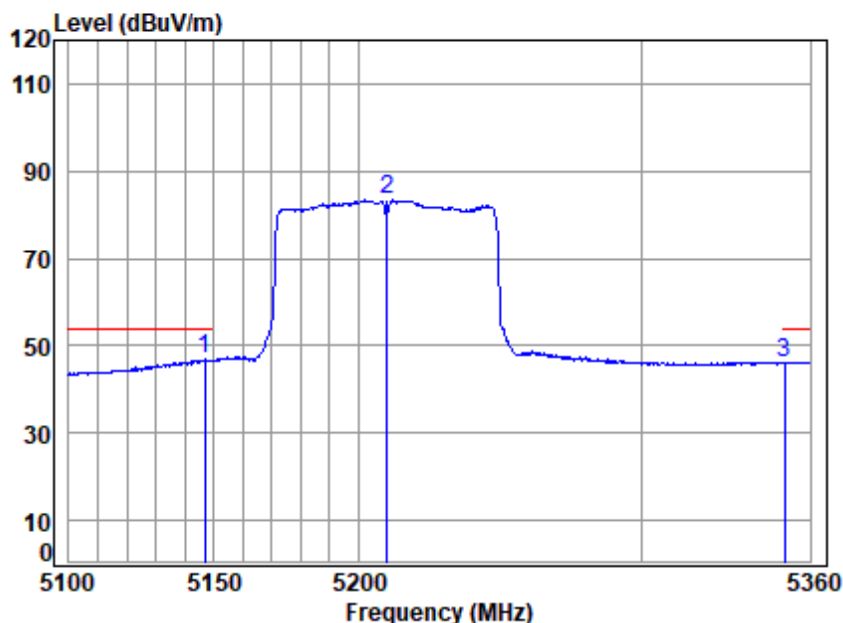
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Shenzhen Branch Testing Laboratory

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

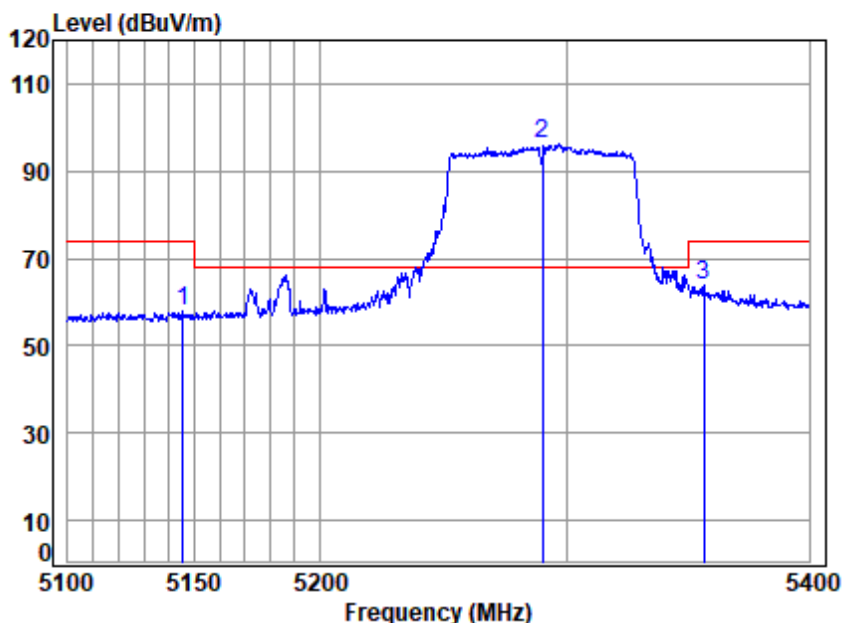
Mode : 5210 Band edge

: 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	5146.619	10.13	32.39	30.84	35.48	47.16	54.00	-6.84	Average
2	5210.000	10.32	32.52	30.82	71.57	83.59	-----	-----	Average
3	5350.680	10.45	32.80	30.76	33.73	46.22	54.00	-7.78	Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5290 Band edge

: 5G WIFI 11AC80

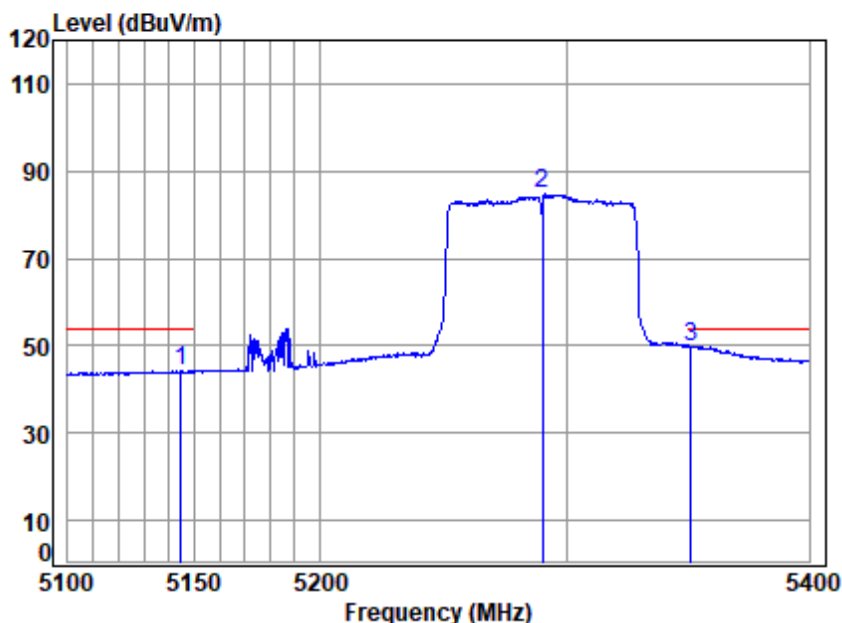
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.384	10.12	32.39	30.84	46.47	58.14	74.00	-15.86	peak
2 pp	5290.000	10.28	32.68	30.78	84.01	96.19	68.20	27.99	peak
3	5356.348	10.47	32.80	30.76	51.15	63.66	74.00	-10.34	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5290 Band edge
: 5G WIFI 11AC80

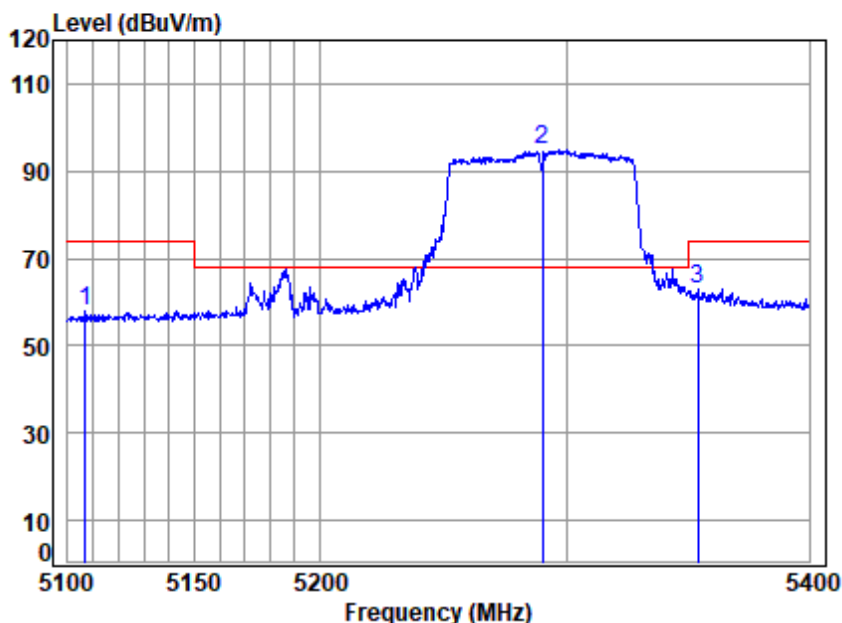
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.502	10.12	32.39	30.84	32.41	44.08	54.00	-9.92	Average
2	5290.000	10.28	32.68	30.78	72.47	84.65	-----	-----	Average
3 pp	5351.146	10.45	32.80	30.76	37.40	49.89	54.00	-4.11	Average



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5290 Band edge

: 5G WIFI 11AC80

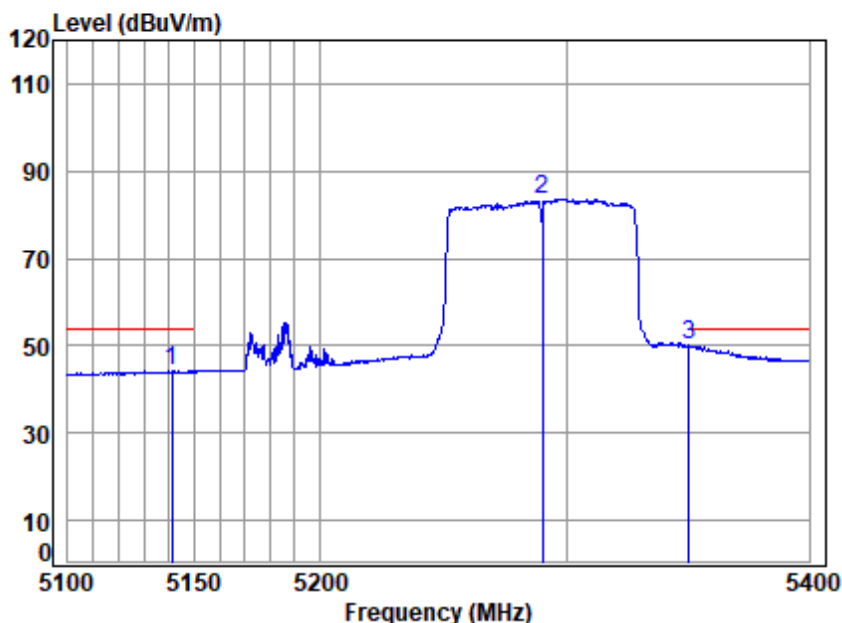
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5107.001	9.98	32.31	30.86	46.65	58.08	74.00	-15.92 Peak
2 pp	5290.000	10.28	32.68	30.78	82.55	94.73	68.20	26.53 Peak
3	5353.899	10.46	32.80	30.76	50.69	63.19	74.00	-10.81 Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5290 Band edge

: 5G WIFI 11AC80

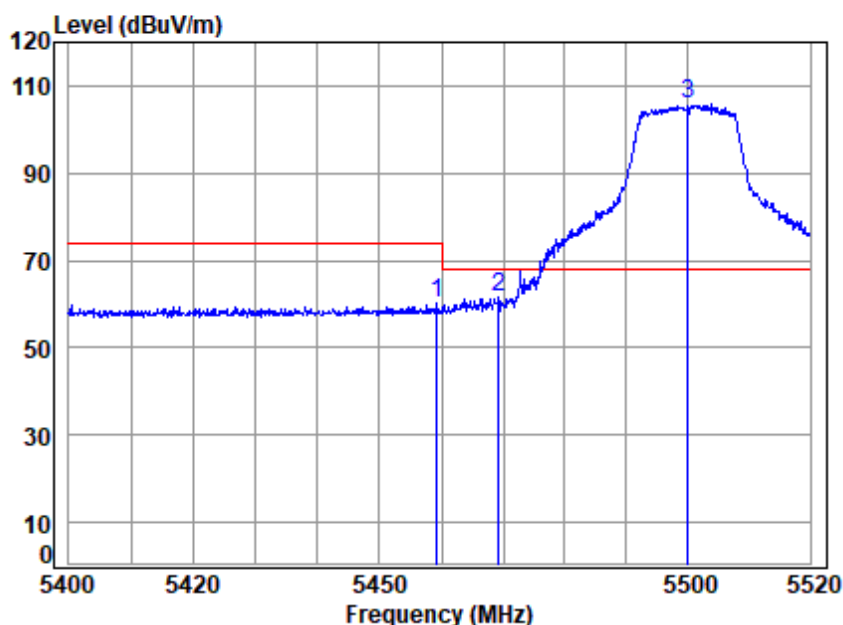
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5140.975	10.11	32.38	30.84	32.63	44.28	54.00	-9.72	Average
2 5290.000	10.28	32.68	30.78	71.52	83.70	-----	-----	Average
3 pp 5350.229	10.45	32.80	30.76	37.58	50.07	54.00	-3.93	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5500 Band edge

: 5G WIFI 11A

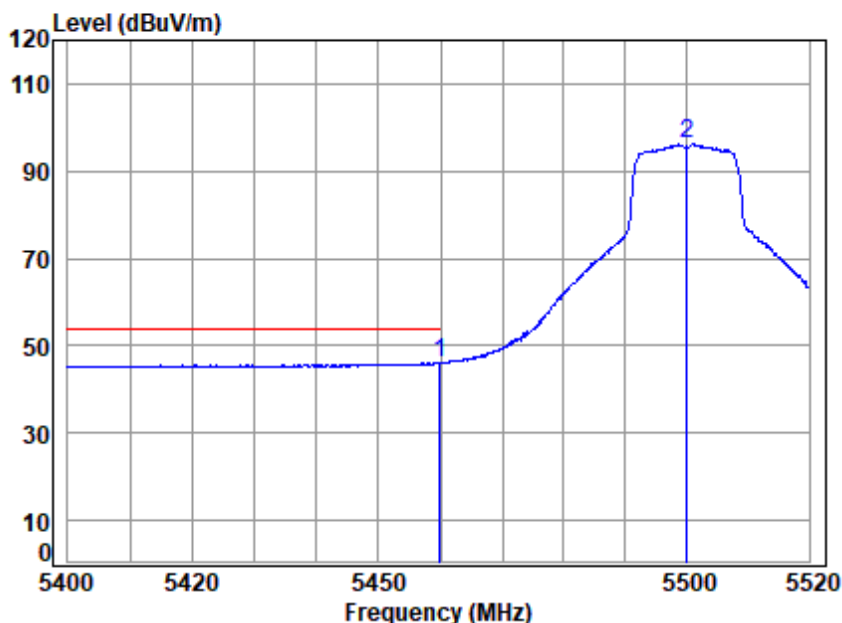
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.311	10.60	32.90	30.72	47.54	60.32	74.00	-13.68	peak
2	5469.279	10.59	32.90	30.71	48.88	61.66	68.20	-6.54	peak
3 pp	5500.000	10.58	32.90	30.70	92.92	105.70	68.20	37.50	peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5500 Band edge

: 5G WIFI 11A

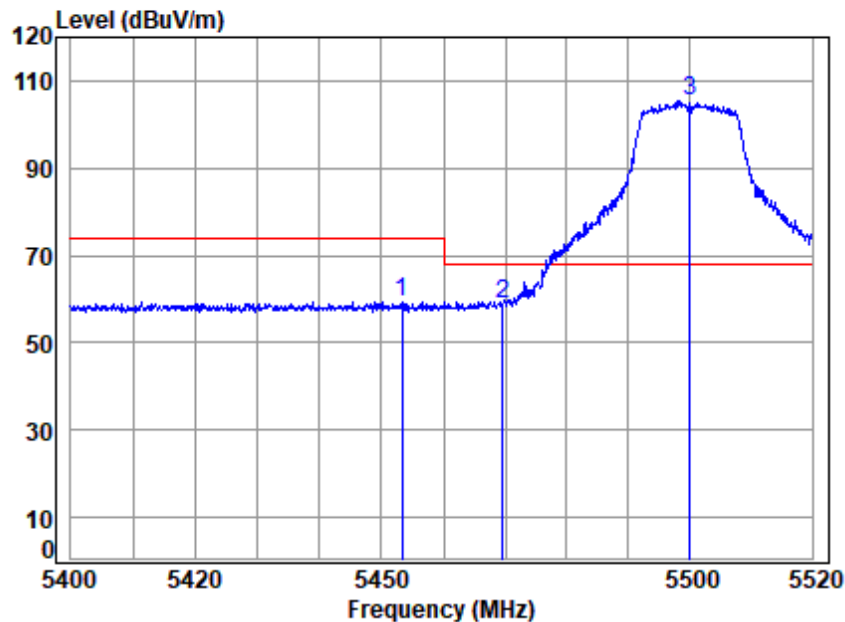
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	33.33	46.11	54.00	-7.89	Average
2	5500.000	10.58	32.90	30.70	83.43	96.21	-----	-----	Average



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

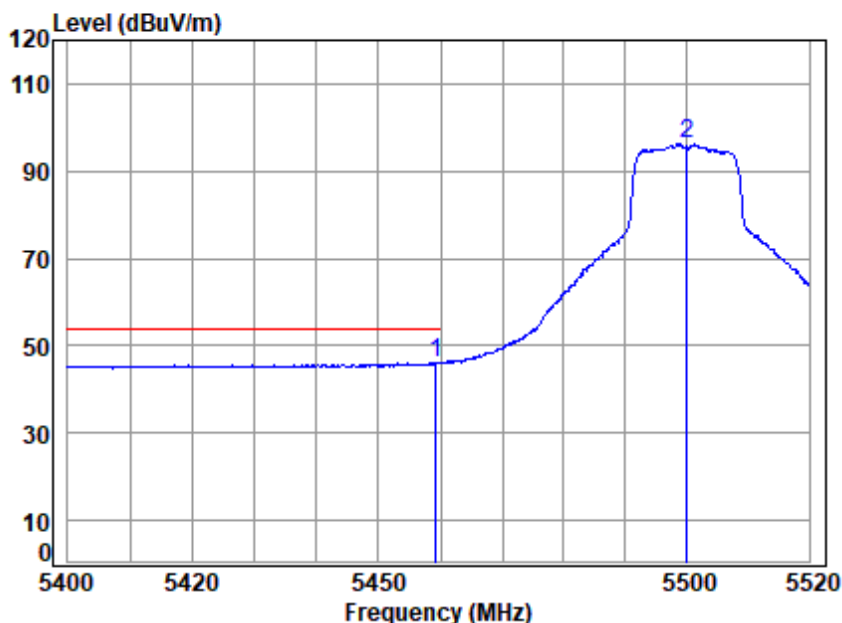
Mode : 5500 Band edge

: 5G WIFI 11A

	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	5453.314	10.60	32.90	30.72	46.66	59.44	74.00 -14.56 Peak
2	5469.519	10.59	32.90	30.71	46.14	58.92	68.20 -9.28 Peak
3	pp 5500.000	10.58	32.90	30.70	92.55	105.33	68.20 37.13 Peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5500 Band edge

: 5G WIFI 11A

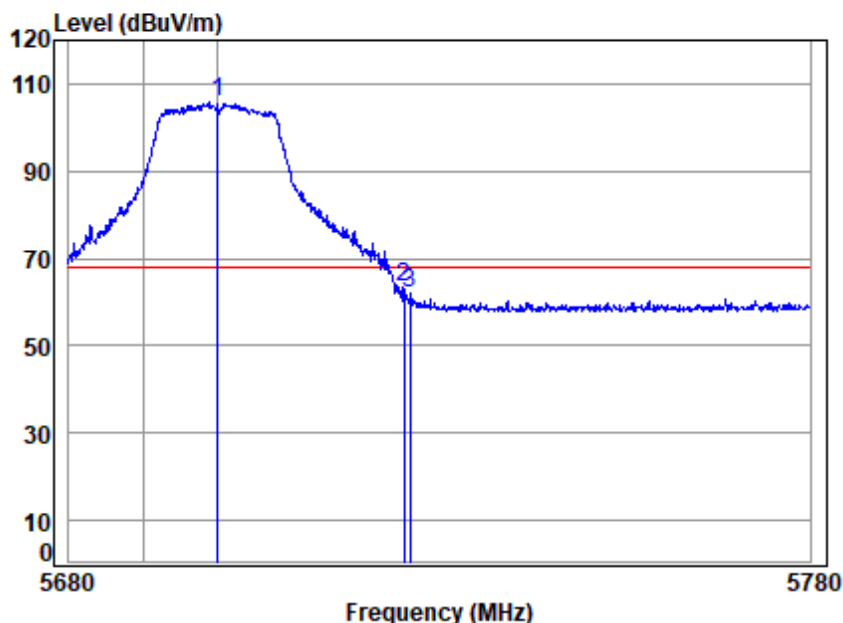
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.311	10.60	32.90	30.72	33.31	46.09	54.00	-7.91	Average
2	5500.000	10.58	32.90	30.70	83.51	96.29	-----	-----	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

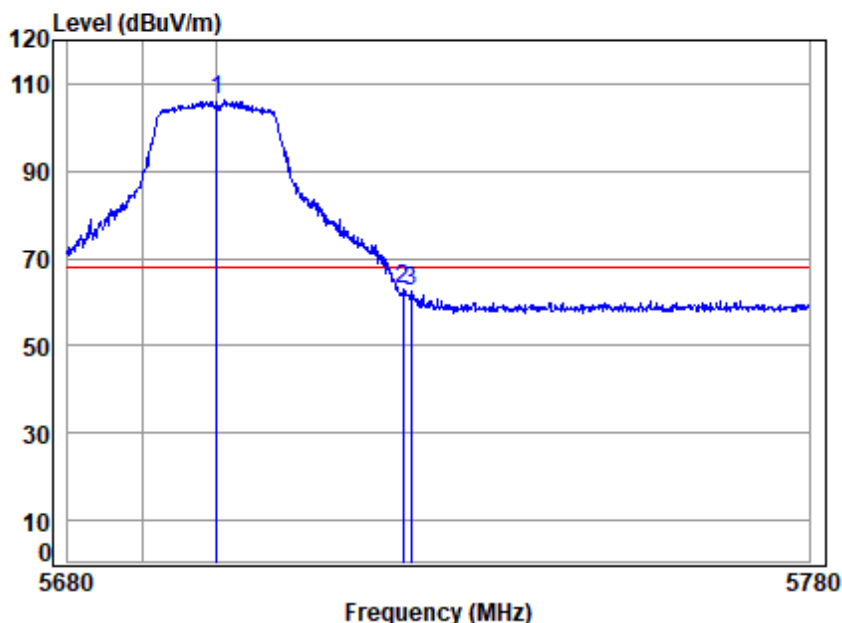
Mode : 5700 Band edge

: 5G WIFI 11A

		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	5700.000	10.56	33.20	30.62	92.53	105.67	68.20	37.47	peak
2	5725.000	10.68	33.25	30.61	50.24	63.56	68.20	-4.64	peak
3	5725.883	10.68	33.25	30.61	48.67	61.99	68.20	-6.21	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

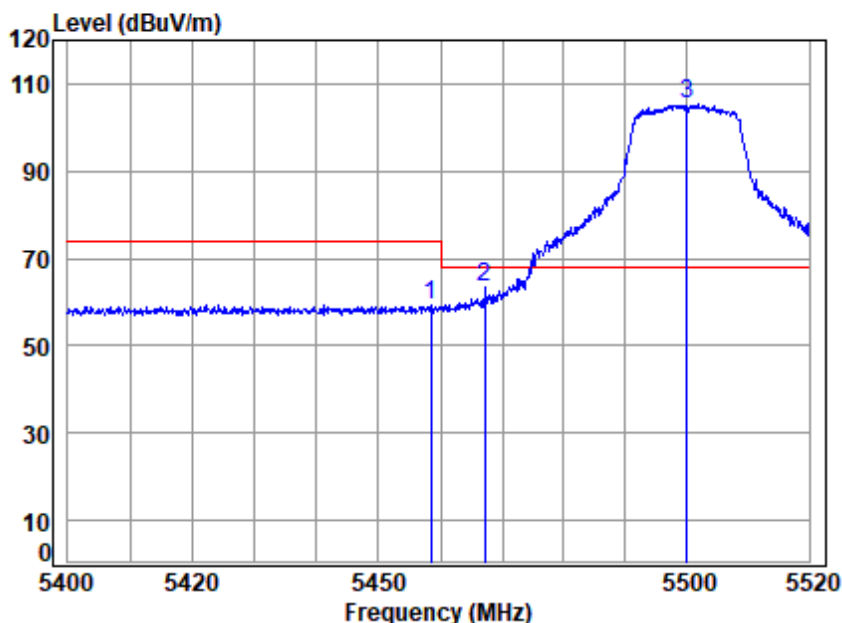
Mode : 5700 Band edge

: 5G WIFI 11A

		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	5700.000	10.56	33.20	30.62	93.00	106.14	68.20	37.94	Peak
2	5725.000	10.68	33.25	30.61	49.62	62.94	68.20	-5.26	Peak
3	5726.083	10.68	33.25	30.61	49.16	62.48	68.20	-5.72	Peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5500 Band edge

: 5G WIFI 11N20

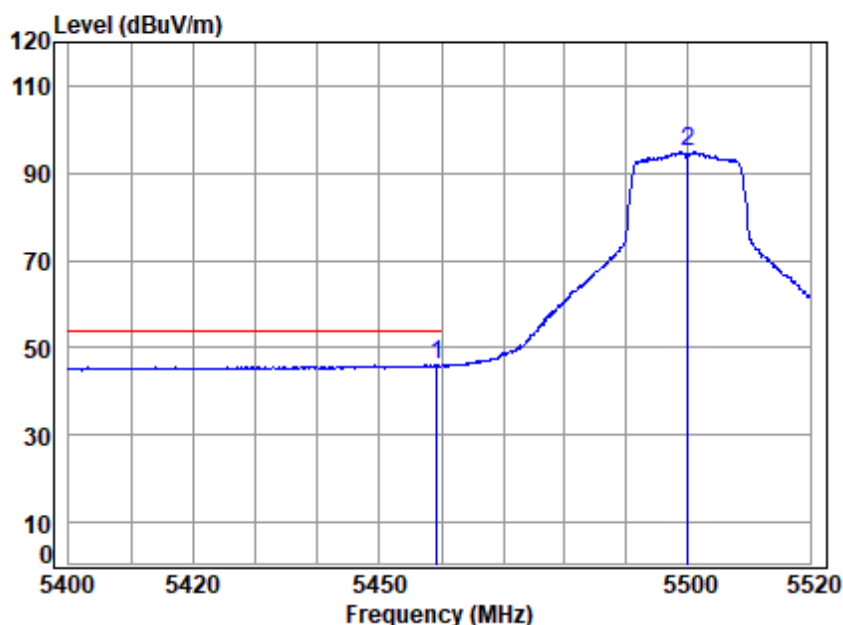
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5458.471	10.60	32.90	30.72	46.63	59.41	74.00	-14.59	peak
5467.235	10.59	32.90	30.71	50.82	63.60	68.20	-4.60	peak
5500.000	10.58	32.90	30.70	92.74	105.52	68.20	37.32	peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5500 Band edge

: 5G WIFI 11N20

		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	5459.190	10.60	32.90	30.72	33.21	45.99	54.00	-8.01	Average
2	5500.000	10.58	32.90	30.70	82.02	94.80	-----	-----	Average



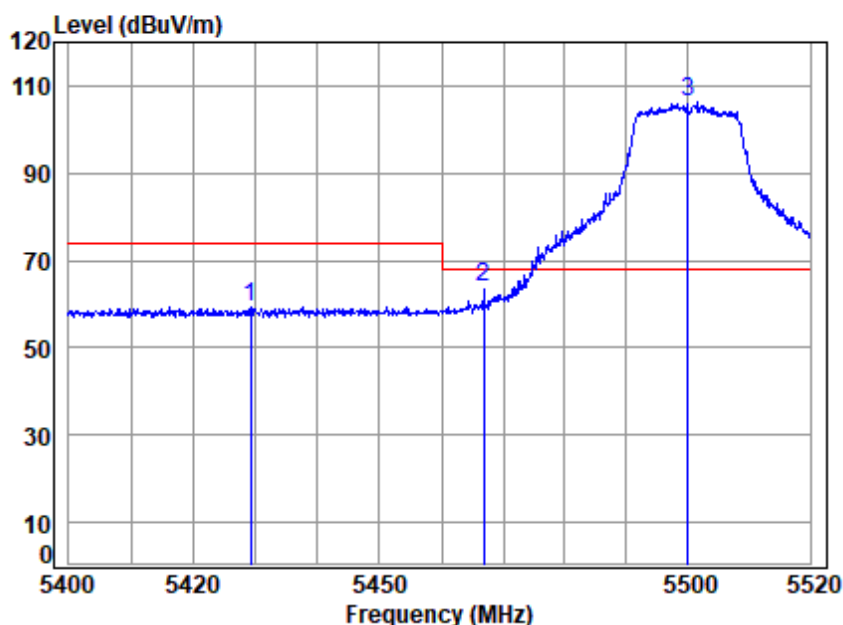
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5500 Band edge

: 5G WIFI 11N20

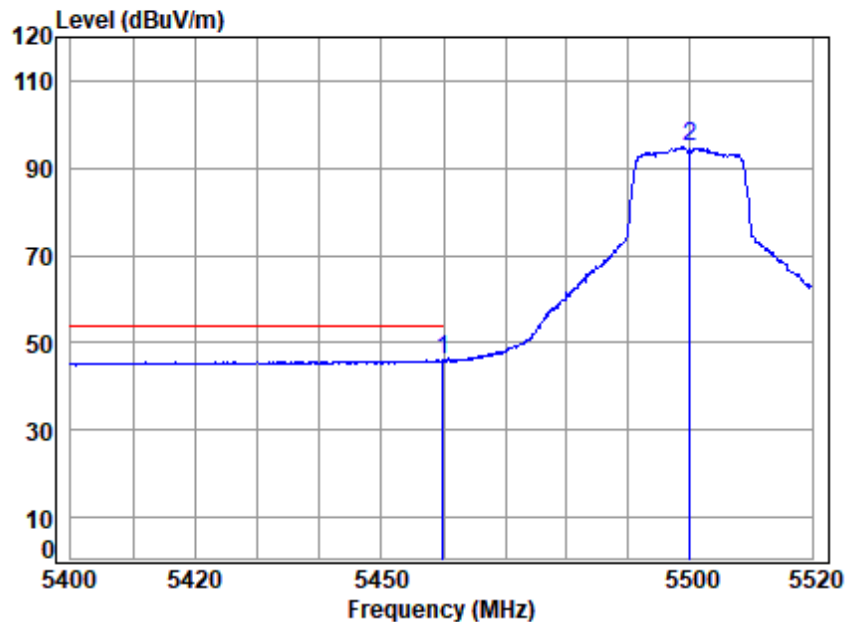
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5429.157	10.61	32.86	30.73	46.58	59.32	74.00	-14.68 Peak
2	5466.875	10.59	32.90	30.71	51.24	64.02	68.20	-4.18 peak
3	pp 5500.000	10.58	32.90	30.70	93.55	106.33	68.20	38.13 Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5500 Band edge

: 5G WIFI 11N20

		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	5459.910	10.60	32.90	30.72	33.25	46.03	54.00	-7.97	Average
2	5500.000	10.58	32.90	30.70	82.04	94.82	-----	-----	Average



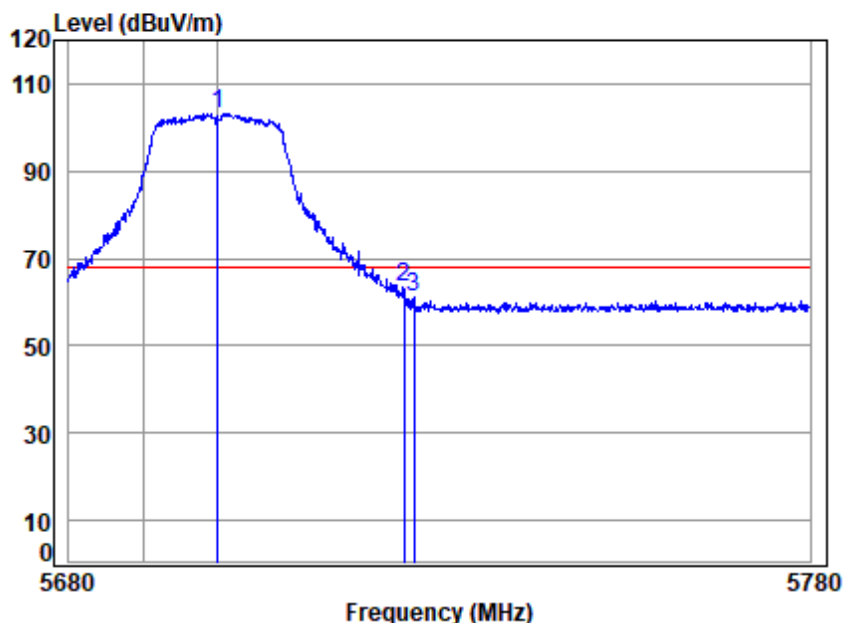
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

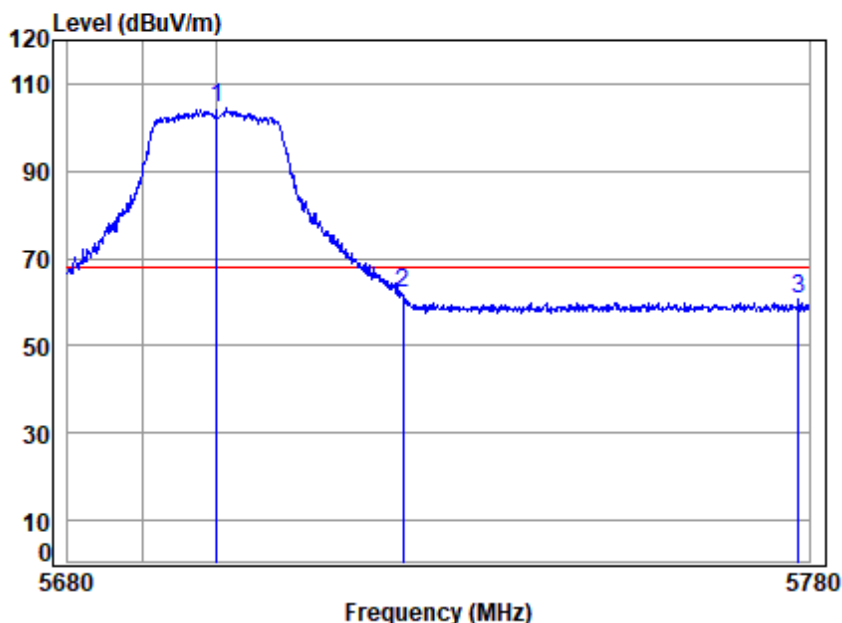
Mode : 5700 Band edge

: 5G WIFI 11N20

		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	5700.000	10.56	33.20	30.62	89.94	103.08	68.20	34.88	peak
2	5725.000	10.68	33.25	30.61	50.15	63.47	68.20	-4.73	peak
3	5726.383	10.68	33.25	30.61	47.63	60.95	68.20	-7.25	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

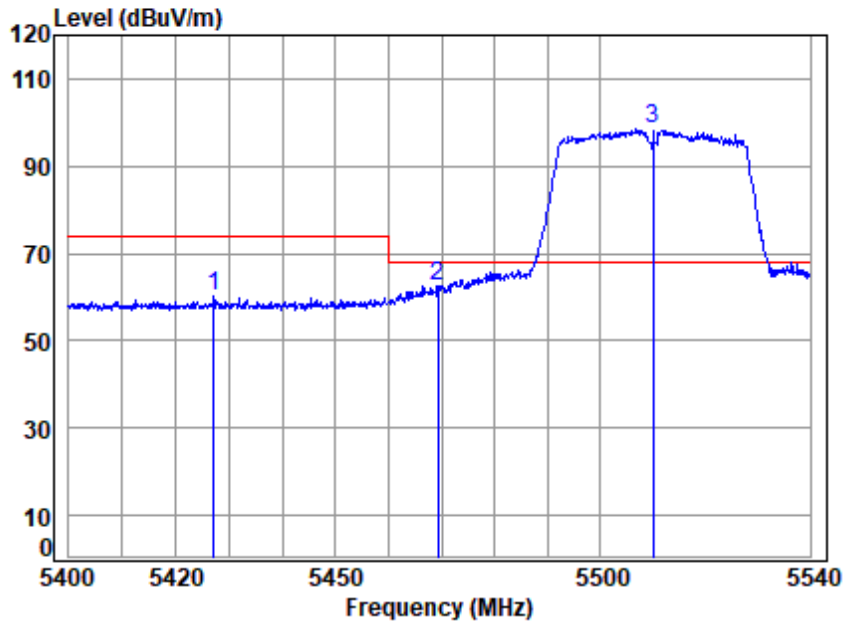
Mode : 5700 Band edge

: 5G WIFI 11N20

		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	5700.000	10.56	33.20	30.62	91.22	104.36	68.20	36.16	Peak
2	5725.000	10.68	33.25	30.61	48.62	61.94	68.20	-6.26	Peak
3	5778.588	10.92	33.36	30.59	46.97	60.66	68.20	-7.54	Peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5510 Band edge

: 5G WIFI 11N40

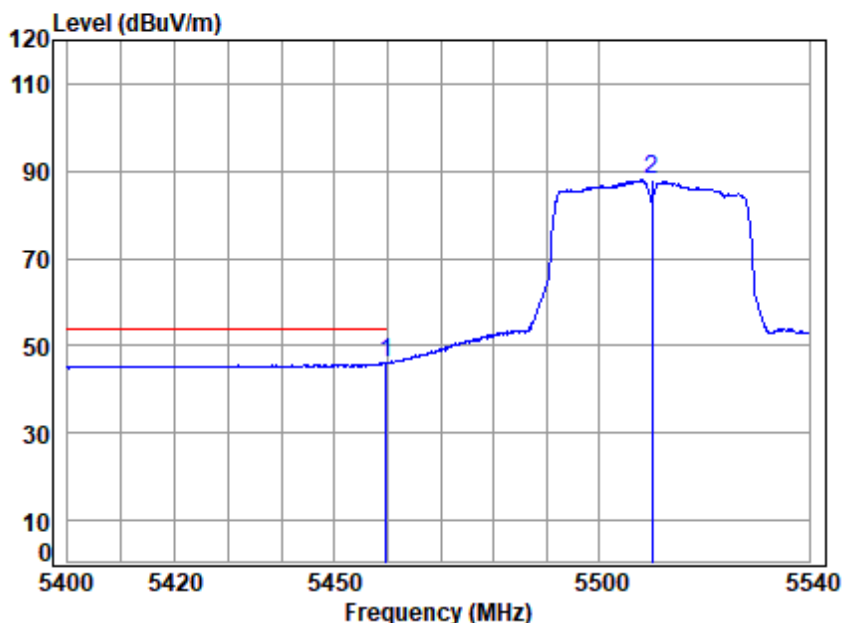
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5427.158	10.61	32.85	30.73	47.40	60.13	74.00	-13.87	peak
2 5469.272	10.59	32.90	30.71	49.95	62.73	68.20	-5.47	peak
3 pp 5510.000	10.56	32.90	30.70	85.62	98.38	68.20	30.18	peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

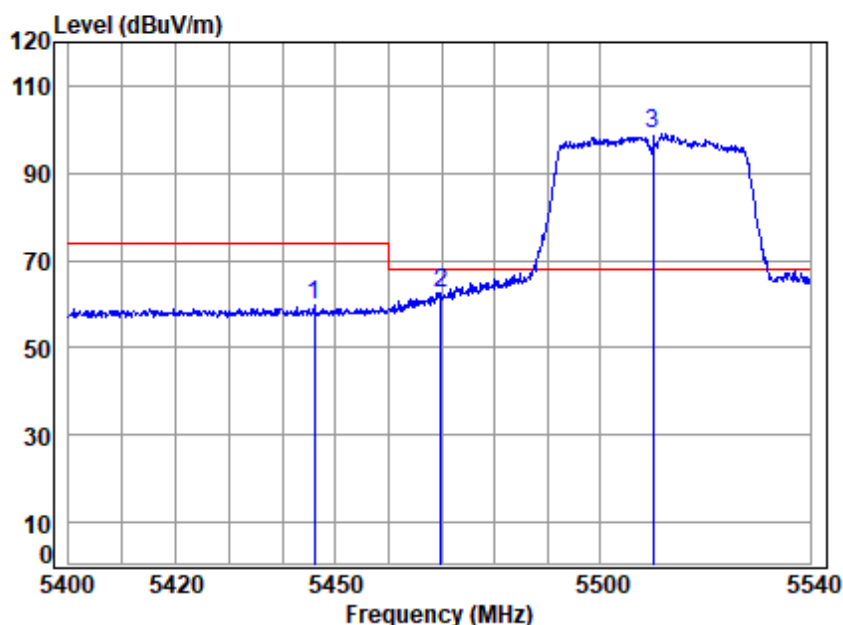
Mode : 5510 Band edge

: 5G WIFI 11N40

		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	5459.622	10.60	32.90	30.72	33.41	46.19	54.00	-7.81	Average
2	5510.000	10.56	32.90	30.70	75.34	88.10	-----	-----	Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5510 Band edge

: 5G WIFI 11N40

	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 5445.944	10.60	32.89	30.72	46.77	59.54	74.00	-14.46 Peak
2 5469.832	10.59	32.90	30.71	49.58	62.36	68.20	-5.84 peak
3 pp 5510.000	10.56	32.90	30.70	86.16	98.92	68.20	30.72 Peak



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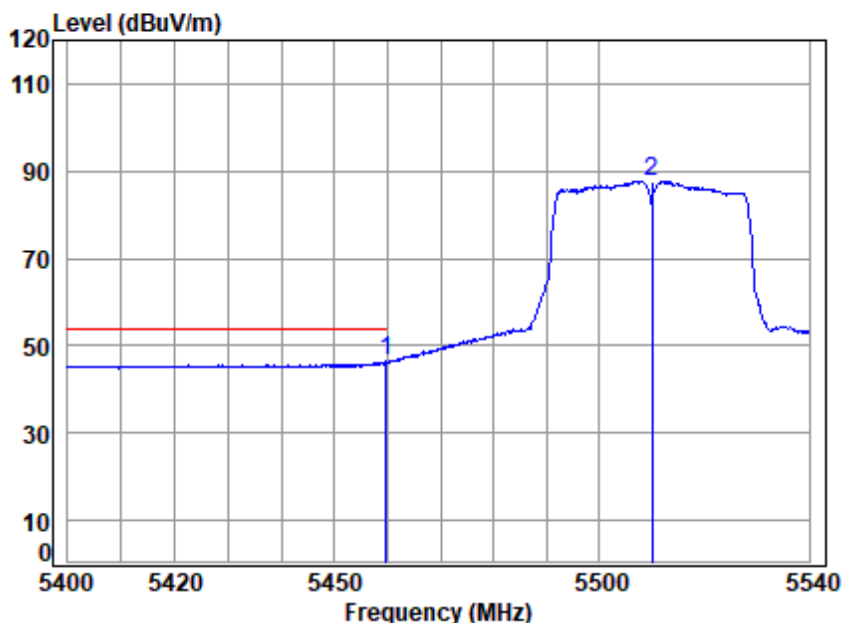
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5510 Band edge

: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.761	10.60	32.90	30.72	33.56	46.34	54.00	-7.66	Average
2	5510.000	10.56	32.90	30.70	75.05	87.81	-----	-----	Average



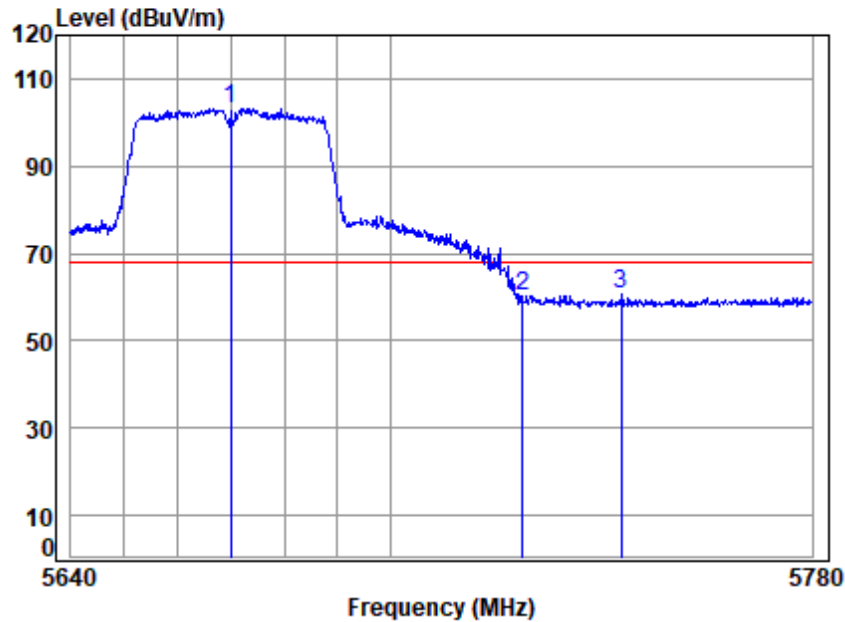
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

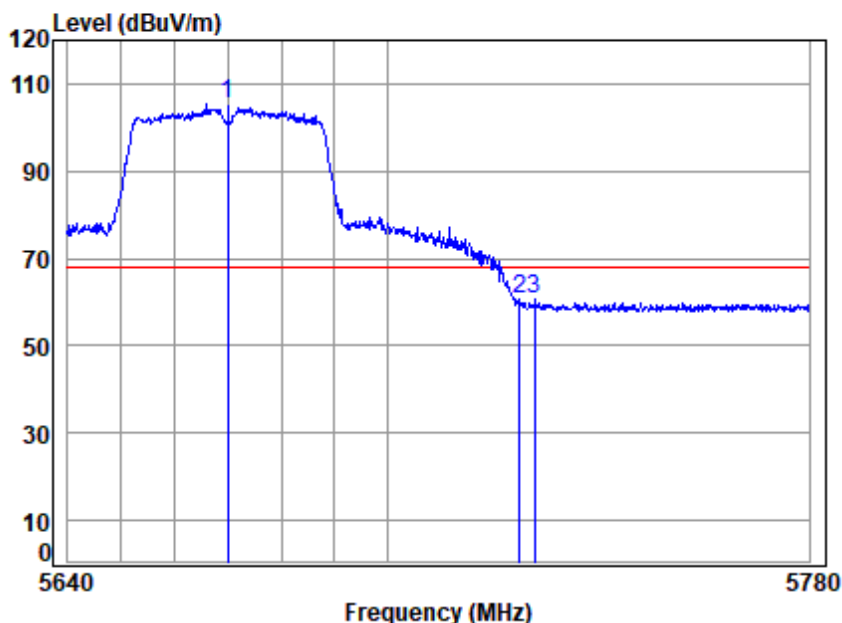
Mode : 5670 Band edge

: 5G WIFI 11N40

		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	5670.000	10.52	33.14	30.63	90.30	103.33	68.20	35.13	peak
2	5725.000	10.68	33.25	30.61	46.88	60.20	68.20	-8.00	peak
3	5743.551	10.76	33.29	30.60	47.32	60.77	68.20	-7.43	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5670 Band edge

: 5G WIFI 11N40

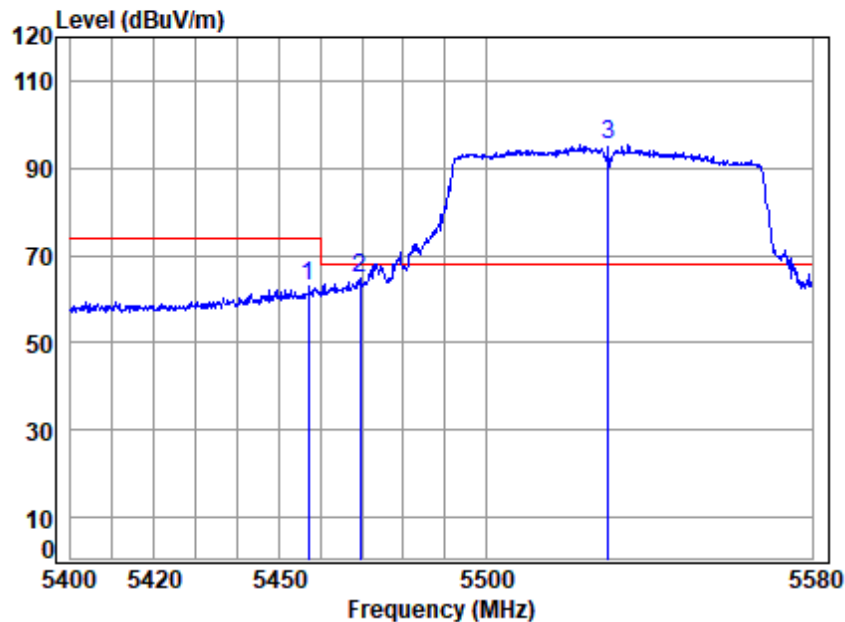
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	92.16	105.19	68.20	36.99	Peak
2	5725.000	10.68	33.25	30.61	47.21	60.53	68.20	-7.67	Peak
3	5727.799	10.69	33.26	30.61	47.19	60.53	68.20	-7.67	Peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

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	5457.138	10.60	32.90	30.72	50.09	62.87	74.00 -11.13 peak
2	5469.678	10.59	32.90	30.71	51.83	64.61	68.20 -3.59 peak
3	pp 5530.000	10.53	32.90	30.69	82.85	95.59	68.20 27.39 peak



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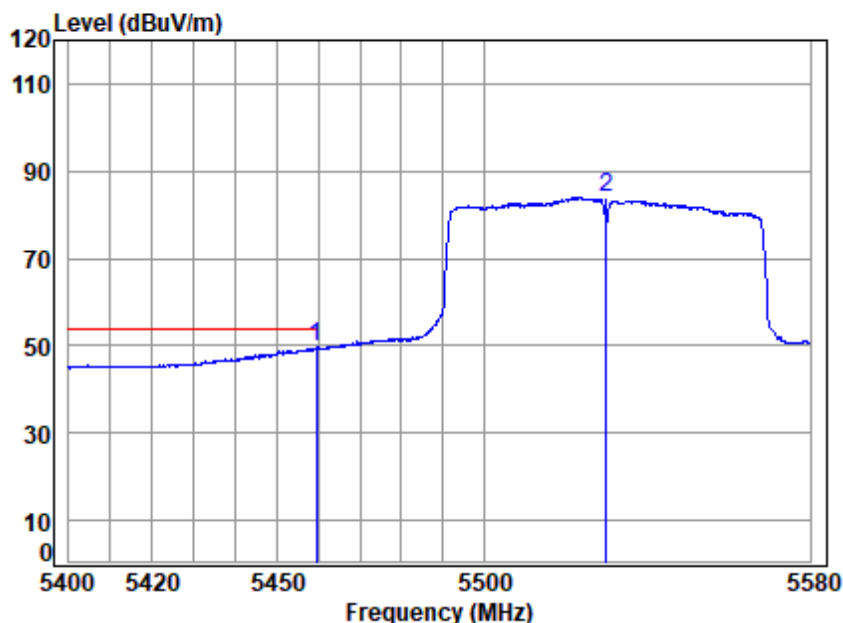
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

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	5459.465	10.60	32.90	30.72	36.74	49.52	54.00	-4.48	Average
2	5530.000	10.53	32.90	30.69	71.19	83.93	-----	-----	Average



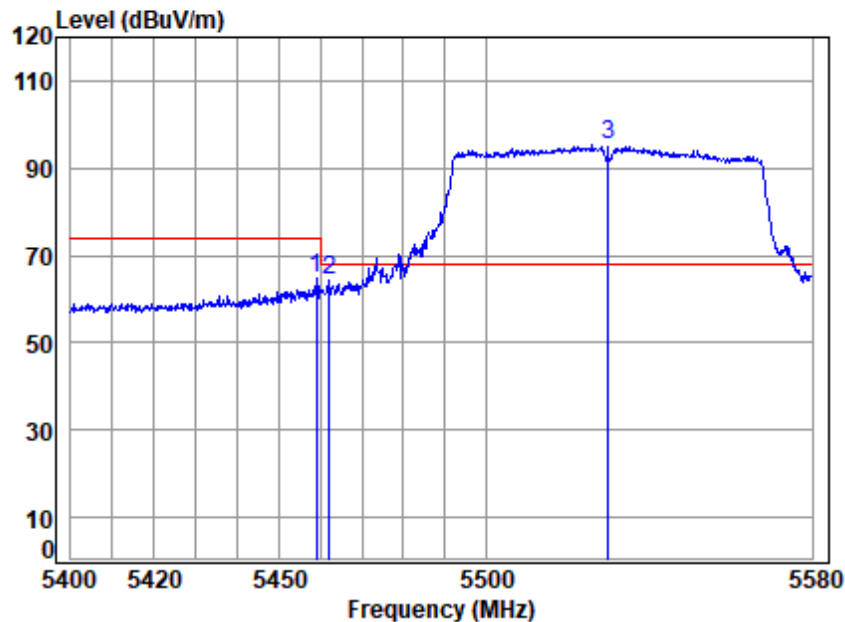
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Shenzhen Branch Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5530 Band edge

: 5G WIFI 11AC80

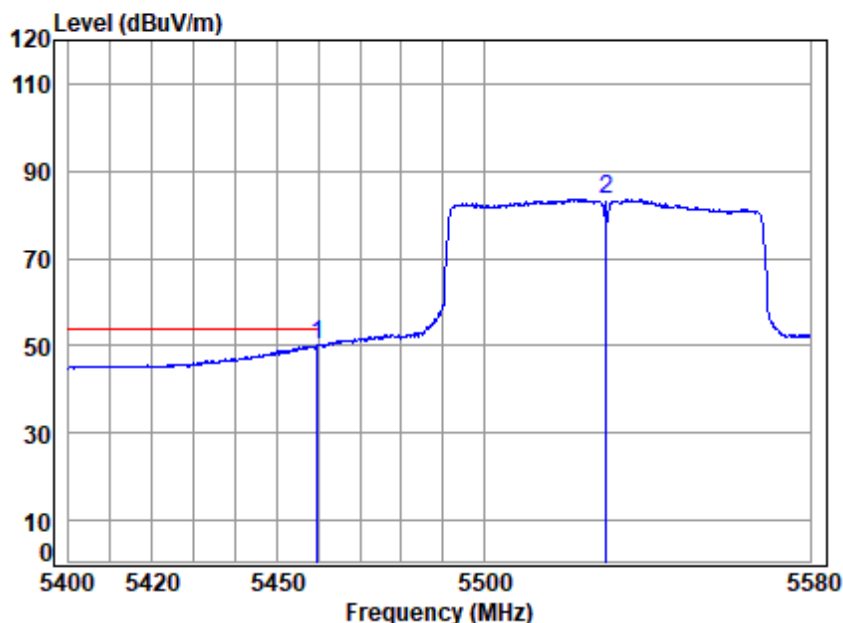
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5458.928	10.60	32.90	30.72	52.10	64.88	74.00 -9.12 Peak
2	5462.151	10.60	32.90	30.72	51.57	64.35	68.20 -3.85 peak
3	pp 5530.000	10.53	32.90	30.69	82.39	95.13	68.20 26.93 Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5530 Band edge

: 5G WIFI 11AC80

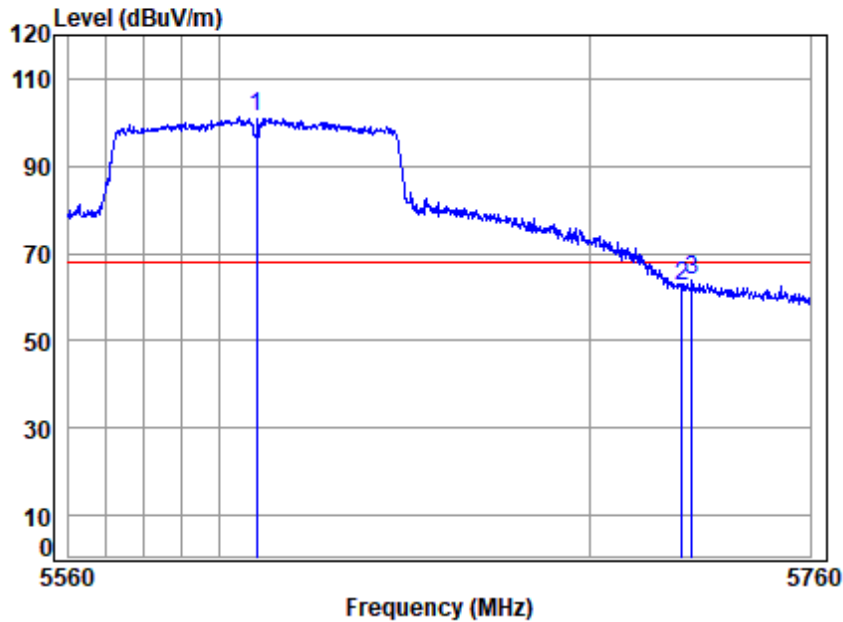
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.644	10.60	32.90	30.72	37.19	49.97	54.00	-4.03	Average
2	5530.000	10.53	32.90	30.69	70.88	83.62	-----	-----	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

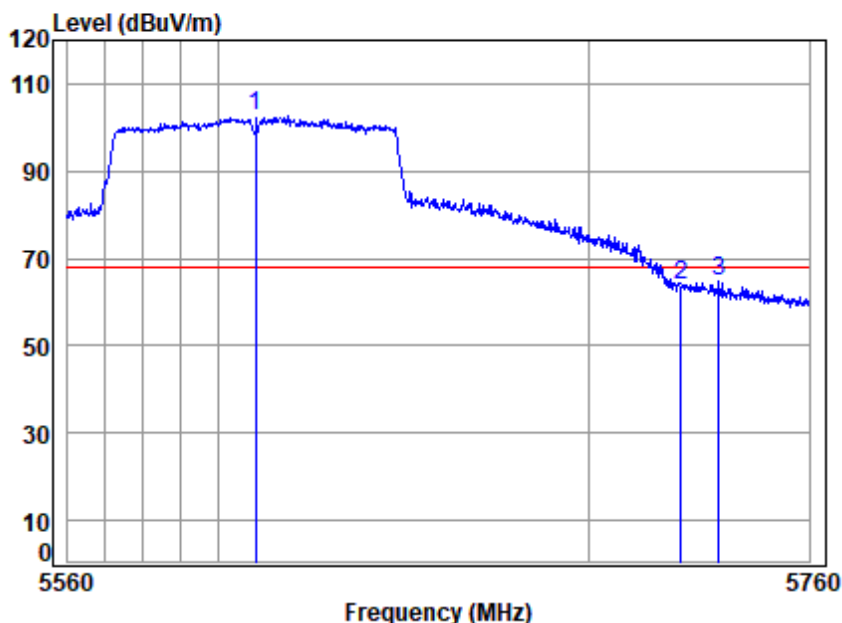
Job No : 04600AT/04601AT

Mode : 5610 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	5610.000	10.43	33.02	30.66	88.39	101.18	68.20	32.98	peak
2	5725.000	10.80	33.30	30.60	48.90	62.40	68.20	-5.80	peak
3	5727.726	10.69	33.26	30.61	50.45	63.79	68.20	-4.41	Peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

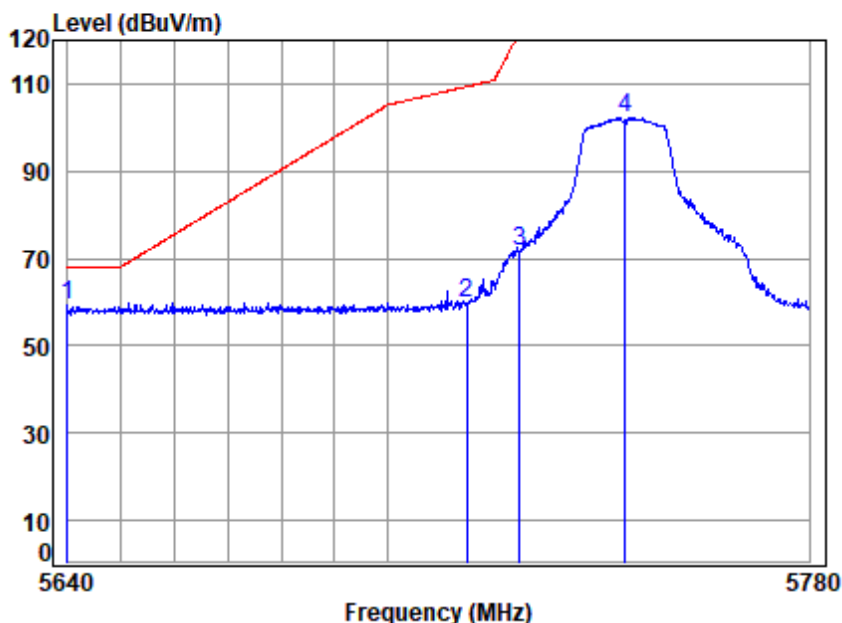
Mode : 5610 Band edge

: 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	5610.000	10.43	33.02	30.66	89.79	102.58	68.20	34.38	Peak
2	5725.000	10.68	33.25	30.61	50.52	63.84	68.20	-4.36	Peak
3	5735.220	10.72	33.27	30.61	51.23	64.61	68.20	-3.59	Peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5745 Band edge

: 5.8G WIFI 11A

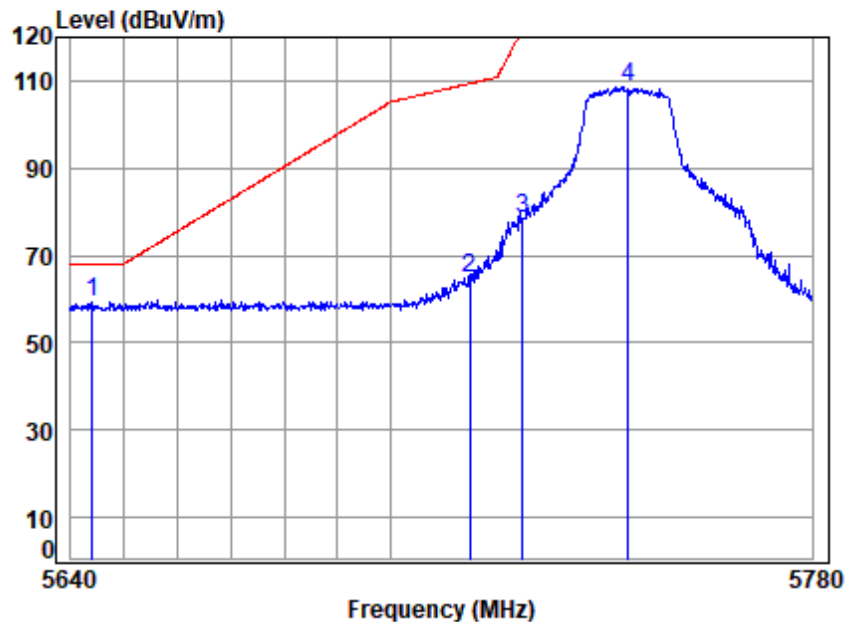
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5640.000	10.47	33.08	30.64	46.47	59.38	68.20	-8.82 peak
2	5715.000	10.63	33.23	30.61	46.50	59.75	109.40	-49.65 peak
3	5725.000	10.68	33.25	30.61	58.49	71.81	122.20	-50.39 peak
4	5745.000	10.77	33.29	30.60	88.92	102.38	-----	----- peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

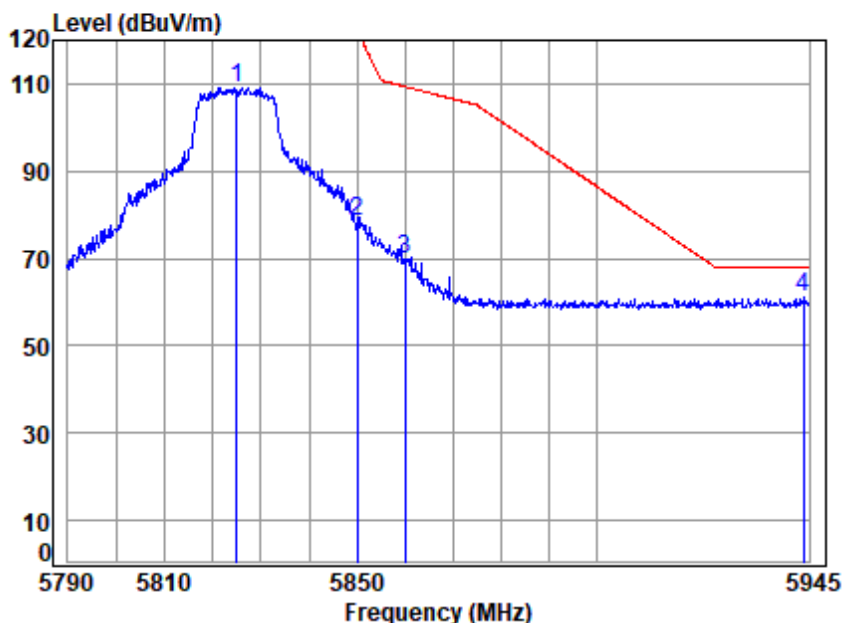
Mode : 5745 Band edge

: 5.8G WIFI 11A

		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 5644.012	10.48	33.09	30.64	46.34	59.27	68.20	-8.93	peak
2 5715.000	10.63	33.23	30.61	51.59	64.84	109.40	-44.56	peak
3 5725.000	10.68	33.25	30.61	65.33	78.65	122.20	-43.55	peak
4 5745.000	10.77	33.29	30.60	95.27	108.73	-----	-----	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5825 Band edge

: 5.8G WIFI 11A

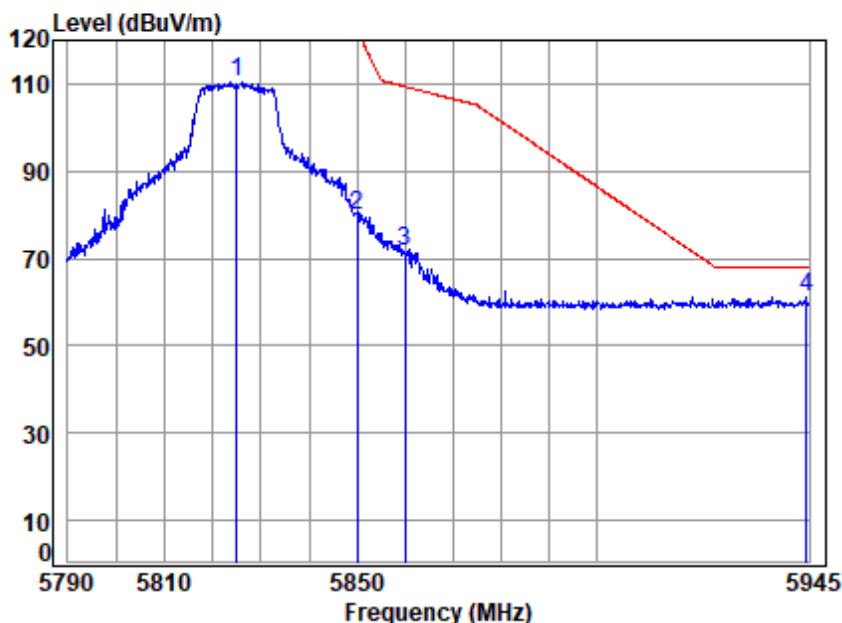
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	95.16	109.08	-----	-----	peak
2	5850.000	10.95	33.60	30.56	64.55	78.54	122.20	-43.66	peak
3	5860.000	10.94	33.58	30.56	55.98	69.94	109.40	-39.46	peak
4 pp	5943.744	10.86	33.59	30.52	47.36	61.29	68.20	-6.91	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5825 Band edge

: 5.8G WIFI 11A

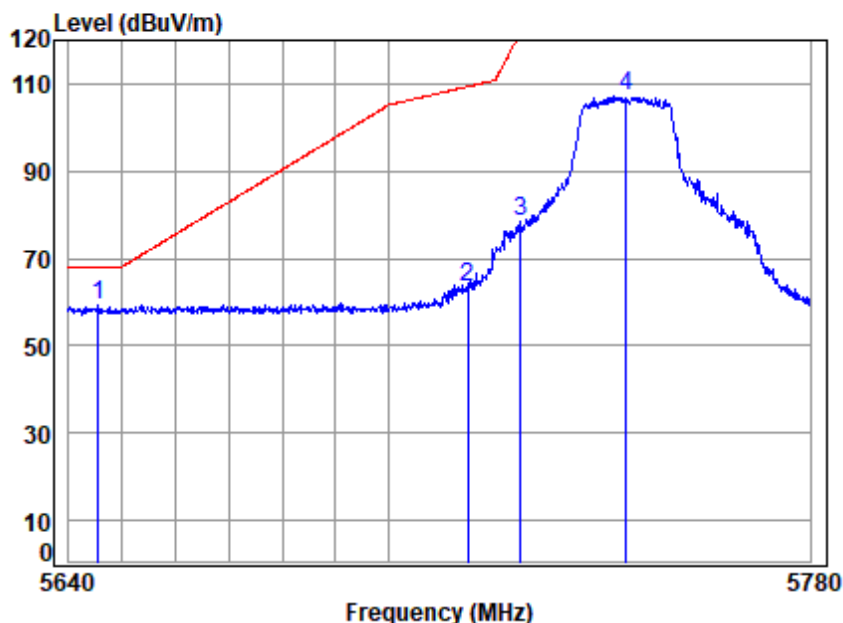
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	96.43	110.35	-----	----- peak
2 5850.000	10.95	33.60	30.56	65.65	79.64	122.20	-42.56 peak
3 5860.000	10.94	33.58	30.56	57.90	71.86	109.40	-37.54 peak
4 pp 5944.529	10.85	33.59	30.52	47.11	61.03	68.20	-7.17 peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5745 Band edge

: 5.8G WIFI 11N20

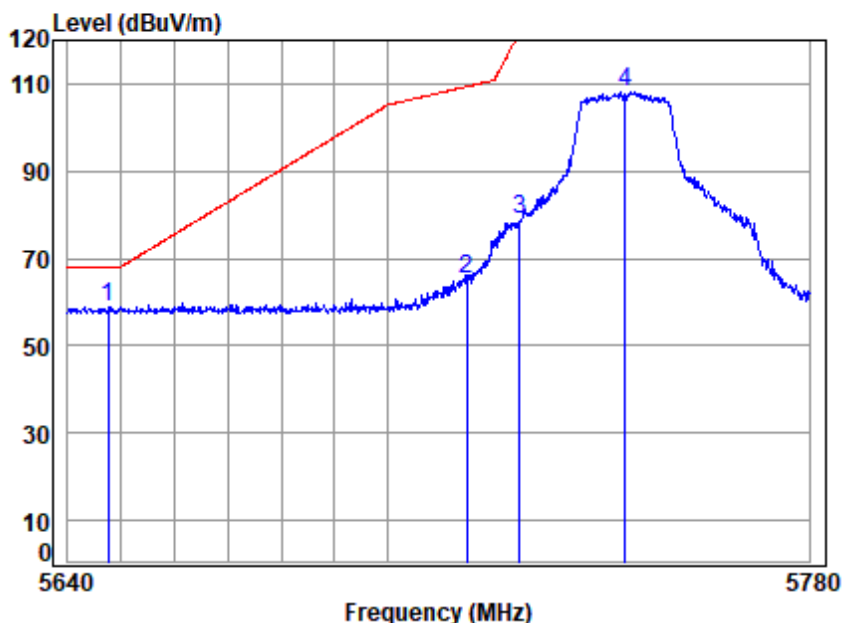
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5645.534	10.48	33.09	30.64	46.31	59.24	68.20	-8.96 peak
2	5715.000	10.63	33.23	30.61	50.01	63.26	109.40	-46.14 peak
3	5725.000	10.68	33.25	30.61	65.12	78.44	122.20	-43.76 peak
4	5745.000	10.77	33.29	30.60	93.79	107.25	-----	----- peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5745 Band edge

: 5.8G WIFI 11N20

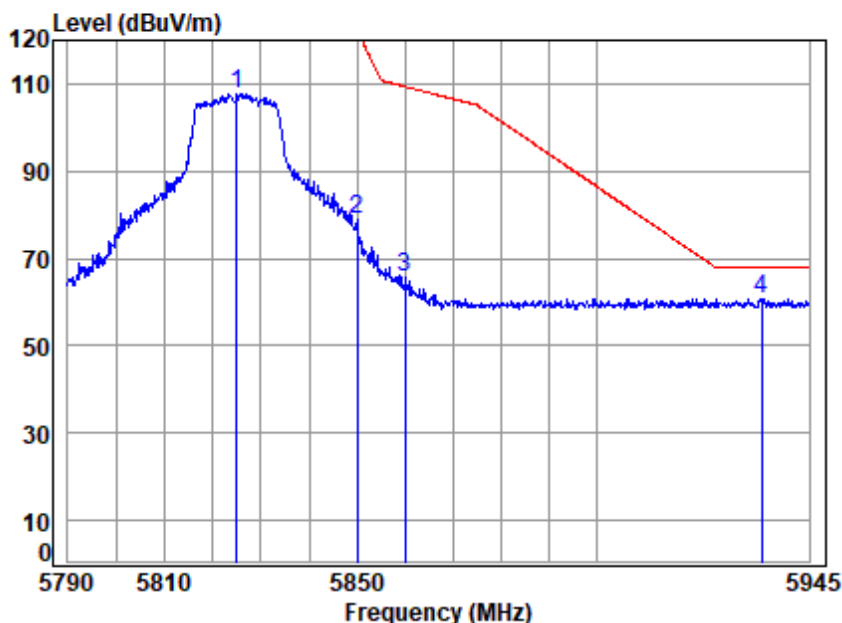
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5647.611	10.48	33.10	30.64	46.14	59.08	68.20	-9.12	peak
2	5715.000	10.63	33.23	30.61	51.88	65.13	109.40	-44.27	peak
3	5725.000	10.68	33.25	30.61	65.65	78.97	122.20	-43.23	peak
4	5745.000	10.77	33.29	30.60	94.84	108.30	-----	-----	peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5825 Band edge

: 5.8G WIFI 11N20

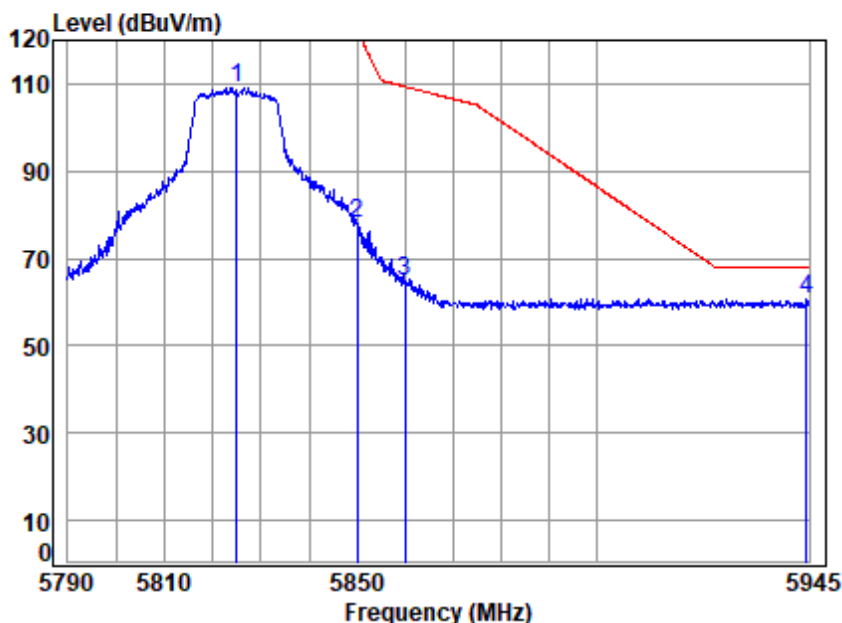
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	93.84	107.76	-----	----- peak
2 5850.000	10.95	33.60	30.56	64.75	78.74	122.20	-43.46 peak
3 5860.000	10.94	33.58	30.56	51.87	65.83	109.40	-43.57 peak
4 pp 5934.957	10.86	33.57	30.53	46.83	60.73	68.20	-7.47 peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5825 Band edge

: 5.8G WIFI 11N20

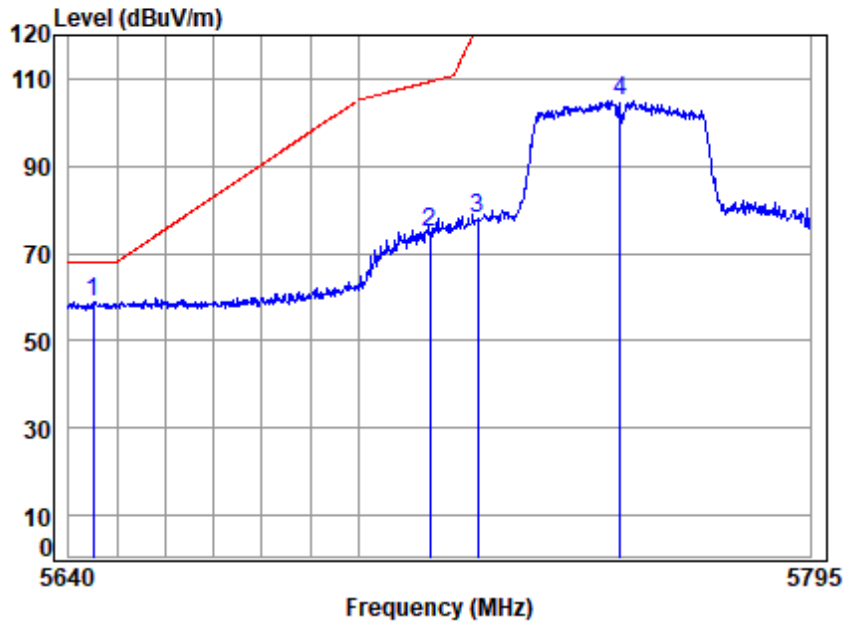
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	95.09	109.01	-----	----- peak
2 5850.000	10.95	33.60	30.56	63.97	77.96	122.20	-44.24 peak
3 5860.000	10.94	33.58	30.56	50.65	64.61	109.40	-44.79 peak
4 pp 5944.529	10.85	33.59	30.52	46.73	60.65	68.20	-7.55 peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5755 Band edge

: 5.8G WIFI 11N40

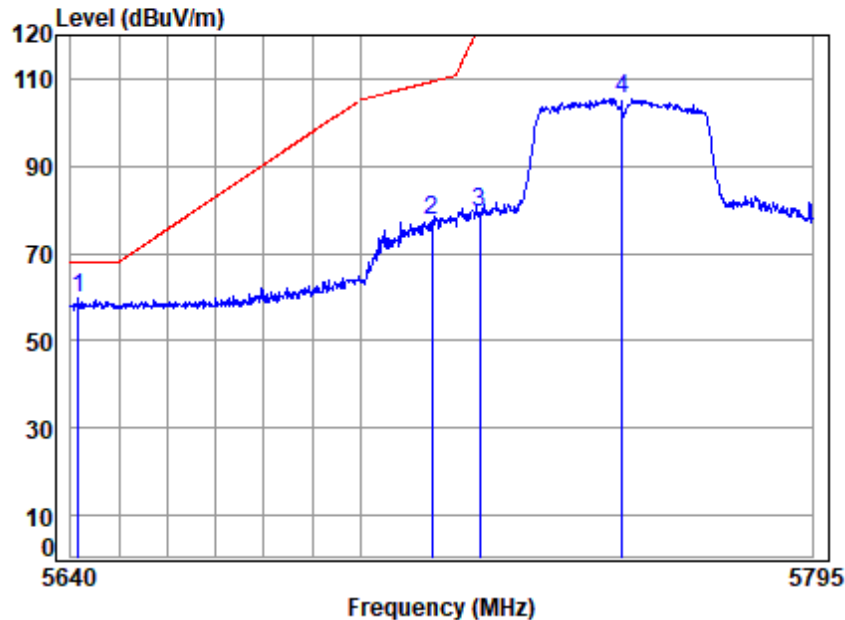
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5645.048	10.48	33.09	30.64	46.02	58.95	68.20	-9.25 peak
2	5715.000	10.63	33.23	30.61	61.54	74.79	109.40	-34.61 peak
3	5725.000	10.68	33.25	30.61	64.56	77.88	122.20	-44.32 peak
4	5755.000	10.81	33.31	30.60	91.65	105.17	-----	----- peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5755 Band edge

: 5.8G WIFI 11N40

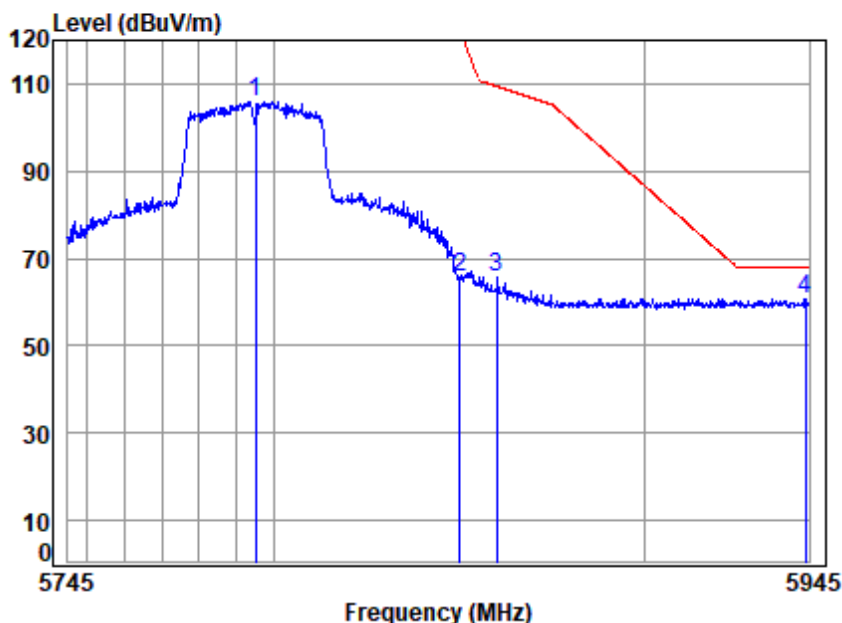
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5641.529	10.47	33.08	30.64	46.91	59.82	68.20	-8.38 peak
2	5715.000	10.63	33.23	30.61	64.47	77.72	109.40	-31.68 peak
3	5725.000	10.68	33.25	30.61	66.03	79.35	122.20	-42.85 peak
4	5755.000	10.81	33.31	30.60	92.05	105.57	-----	----- peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5795 Band edge

: 5.8G WIFI 11N40

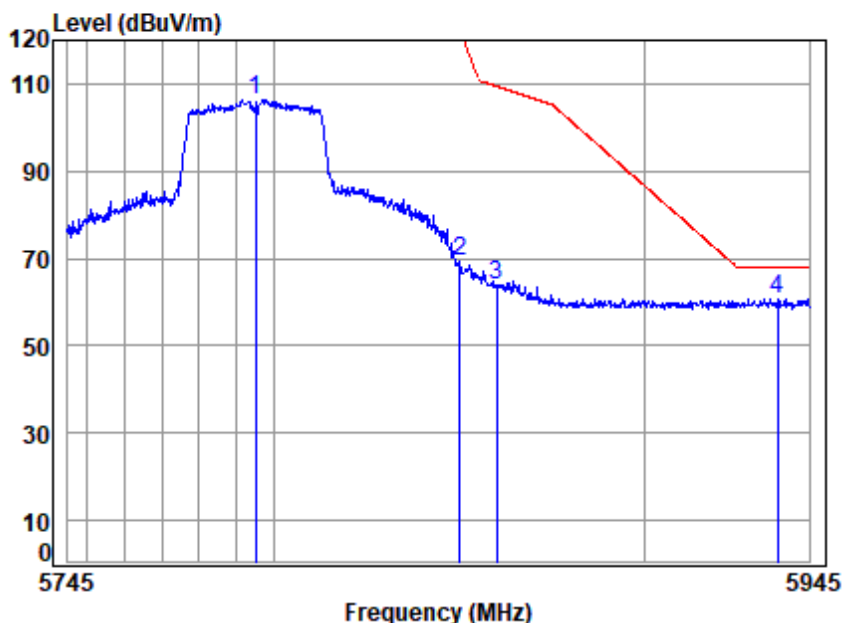
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5795.000	11.00	33.39	30.58	92.20	106.01	-----	-----	peak
2 5850.000	10.95	33.60	30.56	51.57	65.56	122.20	-56.64	peak
3 5860.000	10.94	33.58	30.56	51.71	65.67	109.40	-43.73	peak
4 pp 5943.983	10.85	33.59	30.52	46.85	60.77	68.20	-7.43	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

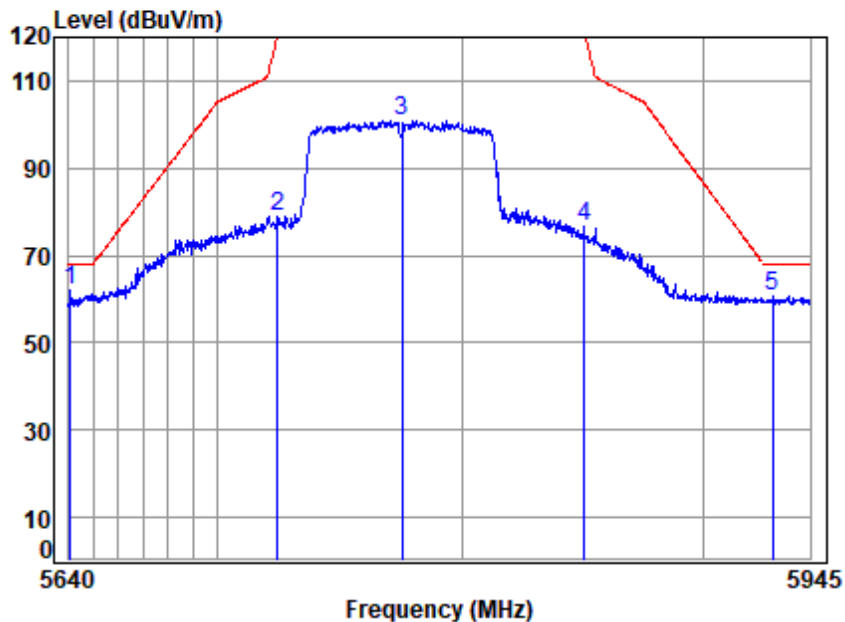
Mode : 5795 Band edge

: 5.8G WIFI 11N40

	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 5795.000	11.00	33.39	30.58	92.61	106.42	-----	-----	peak
2 5850.000	10.95	33.60	30.56	55.20	69.19	122.20	-53.01	peak
3 5860.000	10.94	33.58	30.56	50.04	64.00	109.40	-45.40	peak
4 pp 5936.258	10.86	33.57	30.53	46.87	60.77	68.20	-7.43	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04600AT/04601AT

Mode : 5775 Band edge

: 5.8G WIFI 11AC80

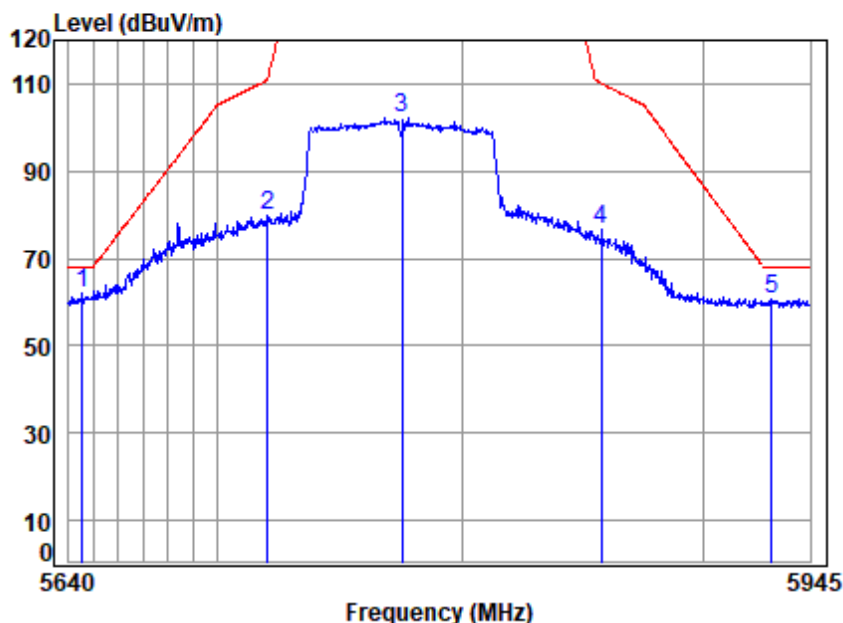
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5640.594	10.47	33.08	30.64	49.28	62.19	68.20	-6.01	Peak
2	5724.390	10.67	33.25	30.61	65.49	78.80	120.81	-42.01	peak
3	5775.000	10.91	33.35	30.59	87.13	100.80	-----	-----	peak
4	5850.267	10.95	33.60	30.56	62.47	76.46	121.59	-45.13	peak
5	5929.366	10.87	33.56	30.53	46.94	60.84	68.20	-7.36	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5775 Band edge

: 5.8G 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	5645.349	10.48	33.09	30.64	49.20	62.13	68.20	-6.07	Peak
2	5720.171	10.65	33.24	30.61	66.55	79.83	111.19	-31.36	peak
3	5775.000	10.91	33.35	30.59	88.36	102.03	-----	-----	peak
4	5857.666	10.95	33.58	30.56	62.58	76.55	110.05	-33.50	peak
5	5928.741	10.87	33.56	30.53	46.93	60.83	68.20	-7.37	peak



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7.6 Channel Move Time

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

Limit:

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

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

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

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar



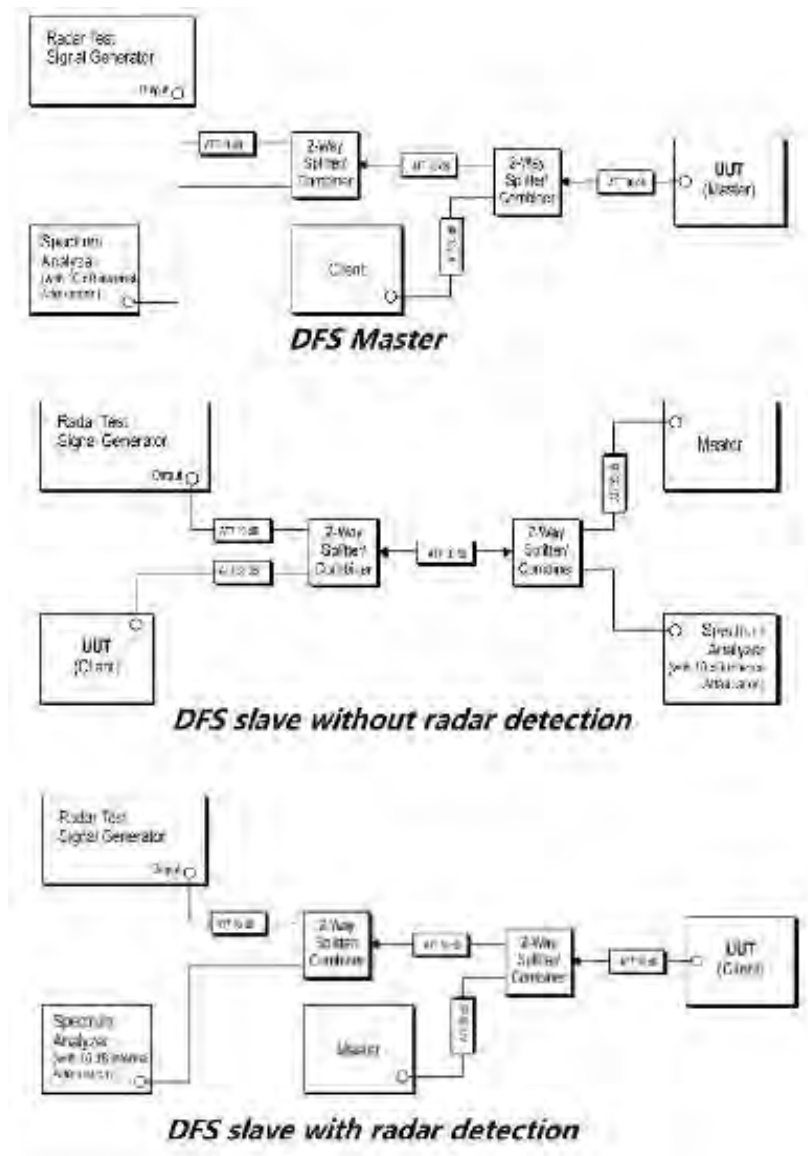
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7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Normal operating_Keep the EUT communication with the companion device.

7.6.3 Test Setup Diagram



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: $C (ms) = N \times Dwell (0.3ms)$; 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 ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2013) Section 12.2

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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.



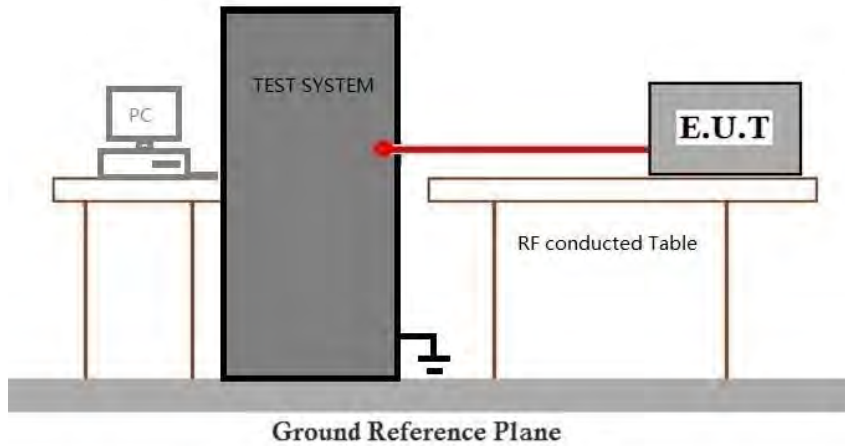
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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.



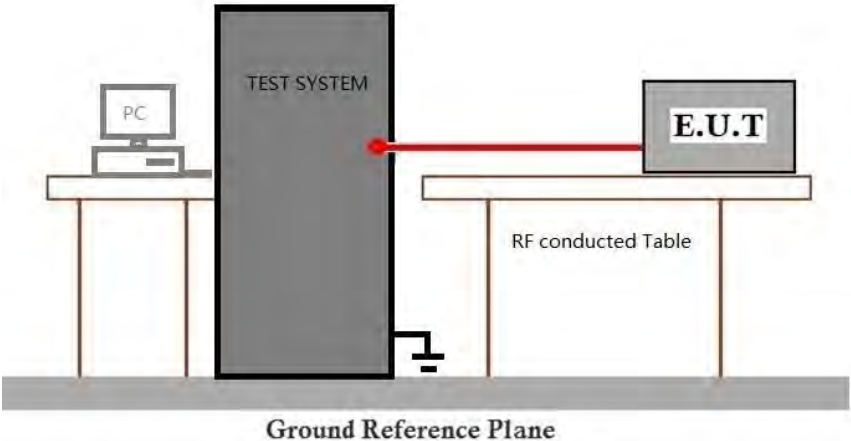
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7.8.3 Test Setup Diagram



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: ANSI C63.10 (2013) Section 12.4.1

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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.



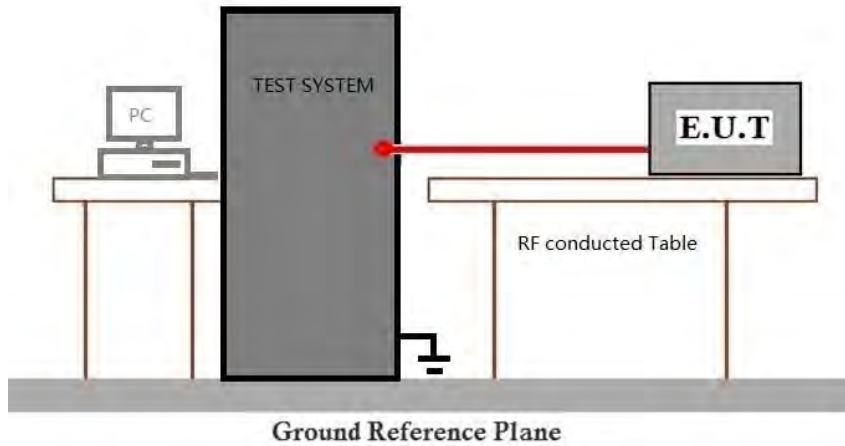
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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: ANSI C63.10 (2013) Section 6.9.2

Limit:

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

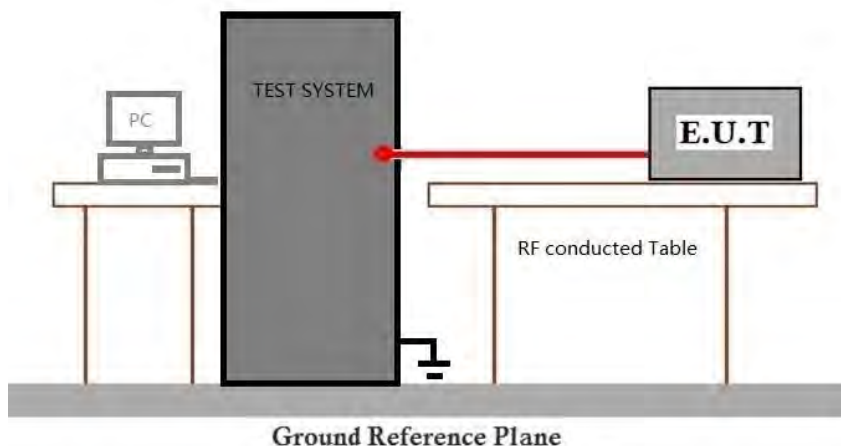
Humidity: 48.1 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	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



7.10.4 Measurement Procedure and Data

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7.11 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤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 under test.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 48.1 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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.



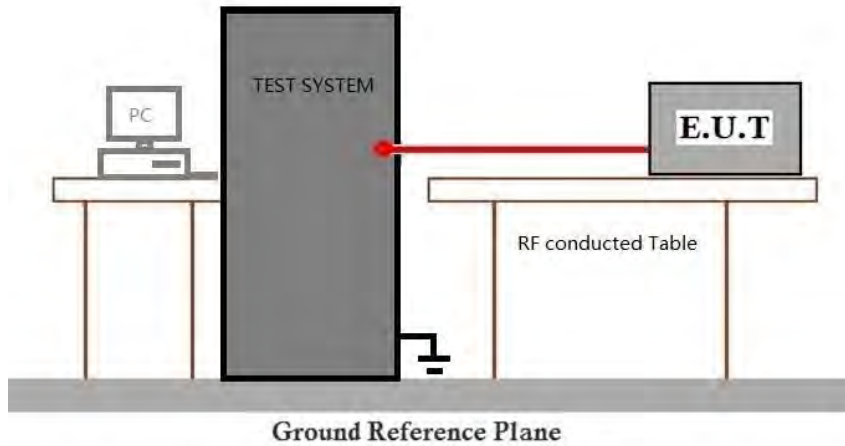
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7.11.3 Test Setup Diagram



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

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 48.1 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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	08	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	09	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	10	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.



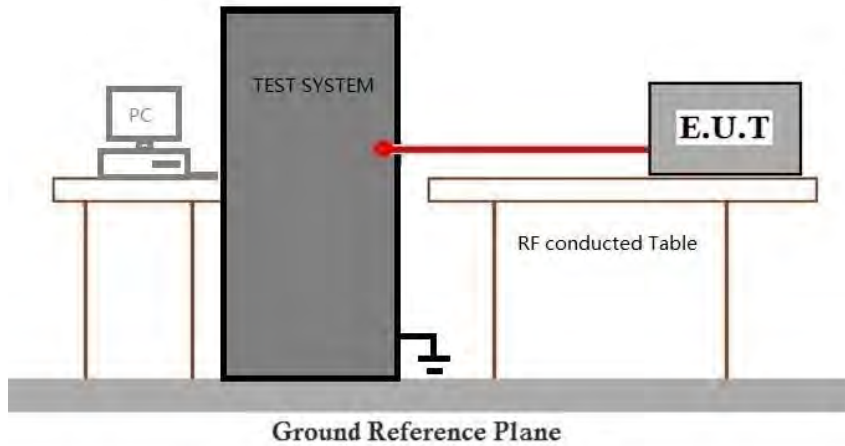
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7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.13 Non-occupancy period

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

Limit:

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

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

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

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

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar



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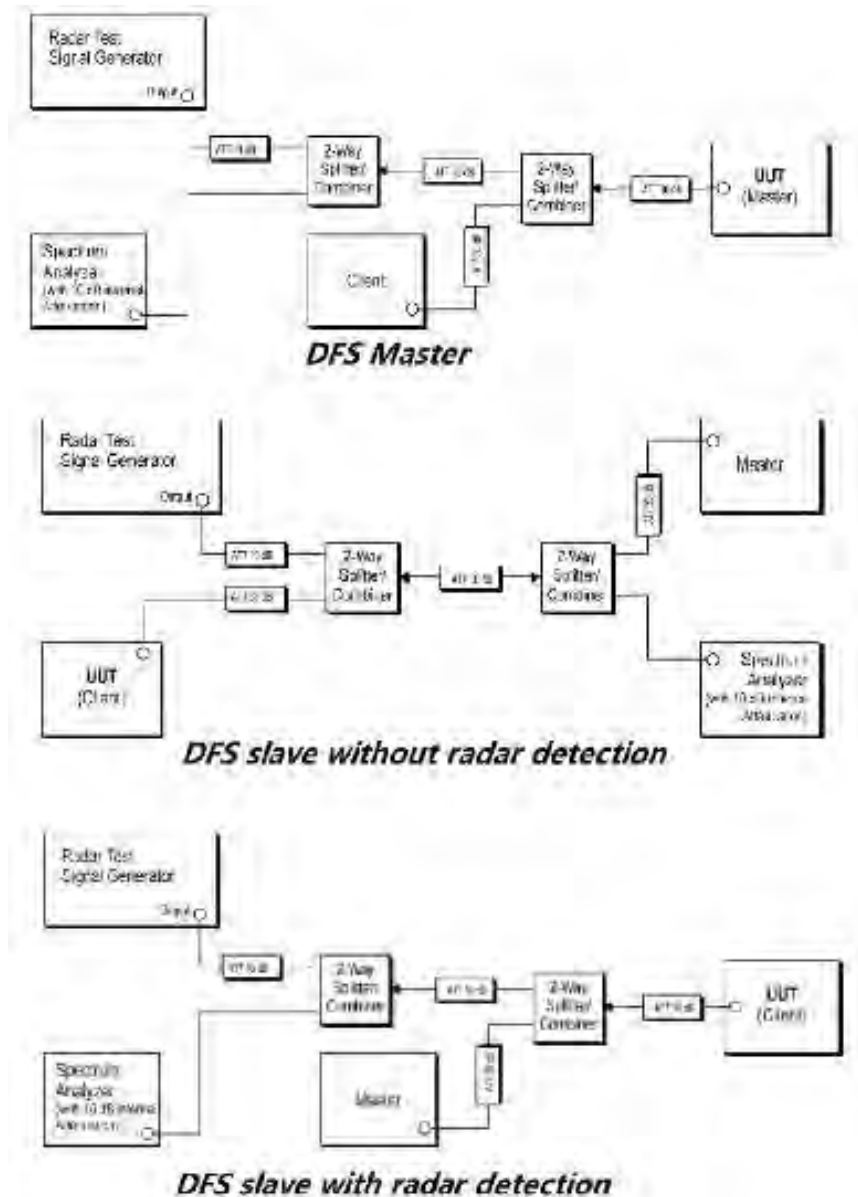
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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



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: $C (ms) = N \times Dwell (0.3ms)$; 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

7.14 Channel Closing Transmission Time

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

Limit:

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

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

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

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

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

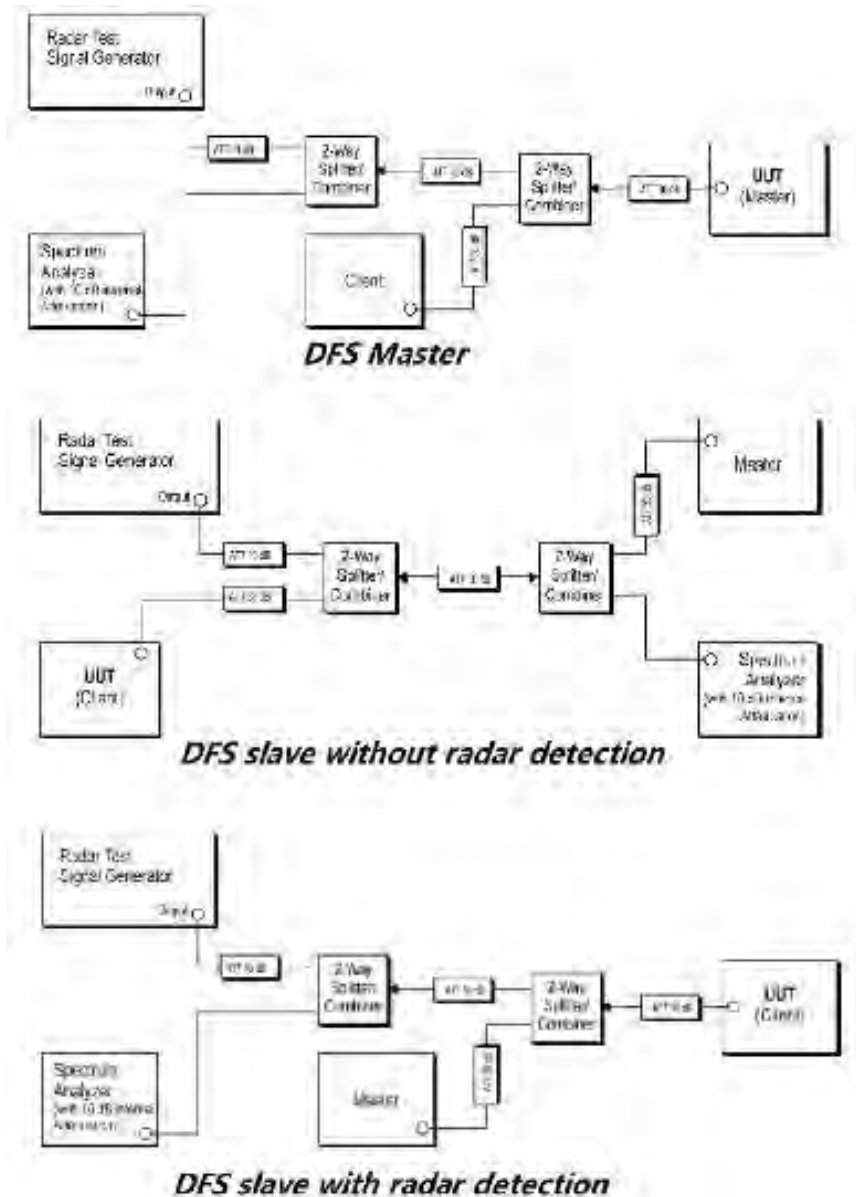


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7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



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: $C (ms) = N \times Dwell (0.3ms)$; 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

8 Test Setup Photo

Please refer to SZCR2412004600Appendix_WLAN Setup Photo

9 EUT Constructional Details (EUT Photos)

Please refer to SZCR2412004600 Appendix_External Photo and Internal Photo.

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 (%)
802.11a	SISO	5180	1.434	1.469	97.62	0.10	0.00
		5200	1.433	1.469	97.55	0.11	0.03
		5240	1.434	1.470	97.55	0.11	0.03
		5260	1.434	1.469	97.62	0.10	0.03
		5300	1.434	1.470	97.55	0.11	0.03
		5320	1.434	1.468	97.68	0.10	0.00
		5500	1.434	1.469	97.62	0.10	0.00
		5580	1.434	1.468	97.68	0.10	0.00
		5700	1.434	1.468	97.68	0.10	0.00
		5745	1.435	1.470	97.62	0.10	0.03
		5785	1.434	1.469	97.62	0.10	0.00
		5825	1.434	1.468	97.68	0.10	0.00
802.11n (HT20)	SISO	5180	1.342	1.377	97.46	0.11	0.03
		5200	1.342	1.377	97.46	0.11	0.03
		5240	1.342	1.377	97.46	0.11	0.03
		5260	1.342	1.377	97.46	0.11	0.00
		5300	1.341	1.376	97.46	0.11	0.00
		5320	1.341	1.376	97.46	0.11	0.00
		5500	1.342	1.377	97.46	0.11	0.03
		5580	1.342	1.378	97.39	0.11	0.03
		5700	1.342	1.377	97.46	0.11	0.00
		5745	1.341	1.376	97.46	0.11	0.00
		5785	1.342	1.377	97.46	0.11	0.03
		5825	1.341	1.376	97.46	0.11	0.03
802.11n (HT40)	SISO	5190	0.665	0.700	95.00	0.22	0.03
		5230	0.665	0.700	95.00	0.22	0.03
		5270	0.665	0.700	95.00	0.22	0.03
		5310	0.665	0.700	95.00	0.22	0.03

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		5510	0.666	0.700	95.14	0.22	0.03
		5550	0.666	0.701	95.01	0.22	0.03
		5670	0.666	0.700	95.14	0.22	0.03
		5755	0.666	0.700	95.14	0.22	0.03
		5795	0.665	0.700	95.00	0.22	0.03
802.11ac (VHT20)	SISO	5180	1.342	1.377	97.46	0.11	0.00
		5200	1.342	1.377	97.46	0.11	0.03
		5240	1.342	1.378	97.39	0.11	0.03
		5260	1.350	1.385	97.47	0.11	0.00
		5300	1.350	1.385	97.47	0.11	0.00
		5320	1.350	1.385	97.47	0.11	0.00
		5500	1.349	1.384	97.47	0.11	0.00
		5580	1.350	1.385	97.47	0.11	0.00
		5700	1.349	1.384	97.47	0.11	0.00
		5745	1.350	1.615	83.59	0.78	0.01
		5785	1.350	1.615	83.59	0.78	0.03
		5825	1.350	1.615	83.59	0.78	0.03
802.11ac (VHT40)	SISO	5190	0.666	0.701	95.01	0.22	0.03
		5230	0.666	0.700	95.14	0.22	0.03
		5270	0.674	0.709	95.06	0.22	0.03
		5310	0.673	0.708	95.06	0.22	0.03
		5510	0.673	0.708	95.06	0.22	0.03
		5550	0.673	0.938	71.75	1.44	0.03
		5670	0.674	0.938	71.86	1.44	0.03
		5755	0.673	0.938	71.75	1.44	0.03
		5795	0.673	0.938	71.75	1.44	0.00
802.11ac (VHT80)	SISO	5210	0.333	0.369	90.24	0.45	0.07
		5290	0.333	0.368	90.49	0.43	0.07
		5530	0.332	0.710	46.76	3.30	0.03
		5610	0.332	0.711	46.69	3.31	0.03
		5775	0.333	0.711	46.84	3.29	0.03



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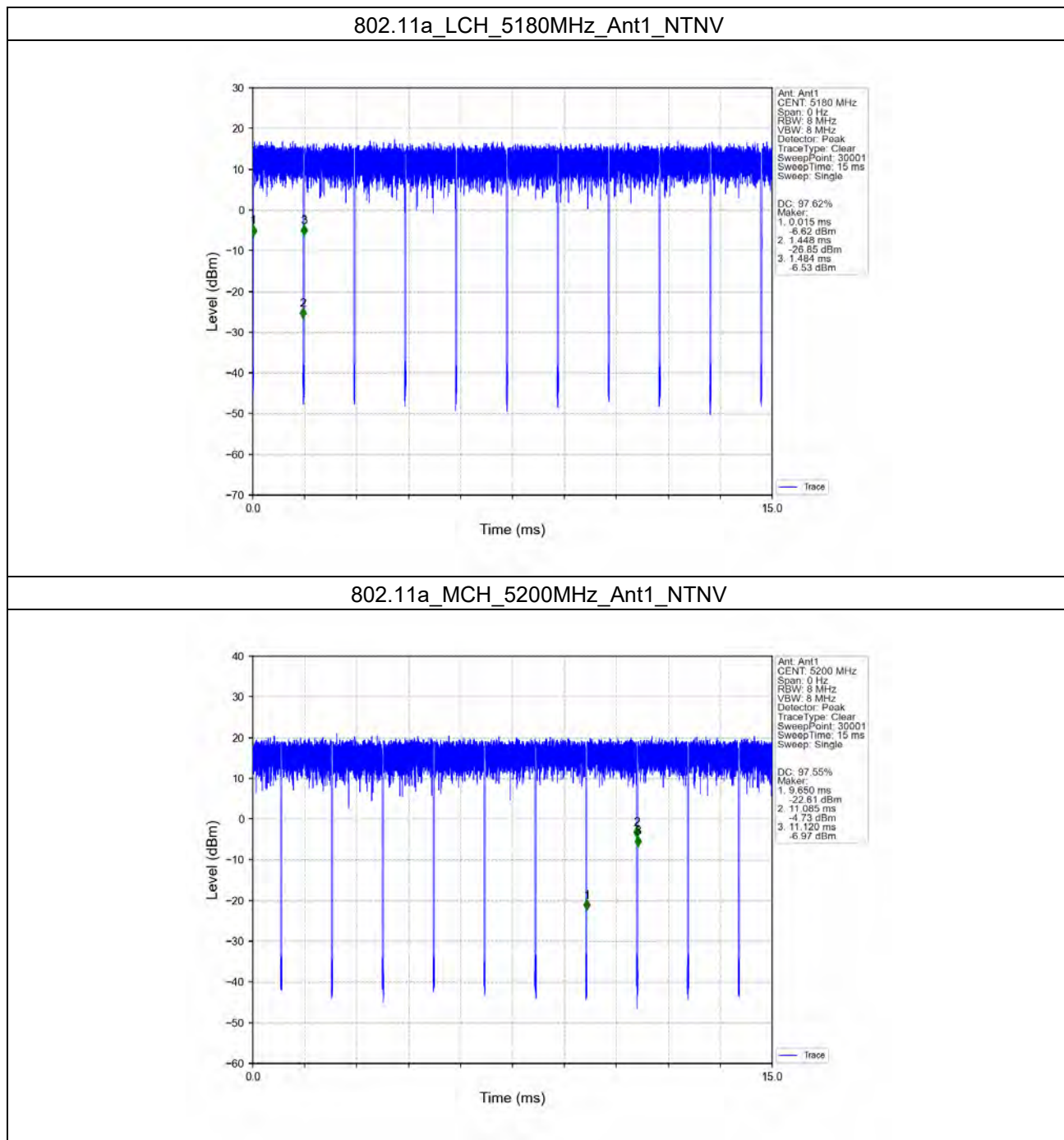
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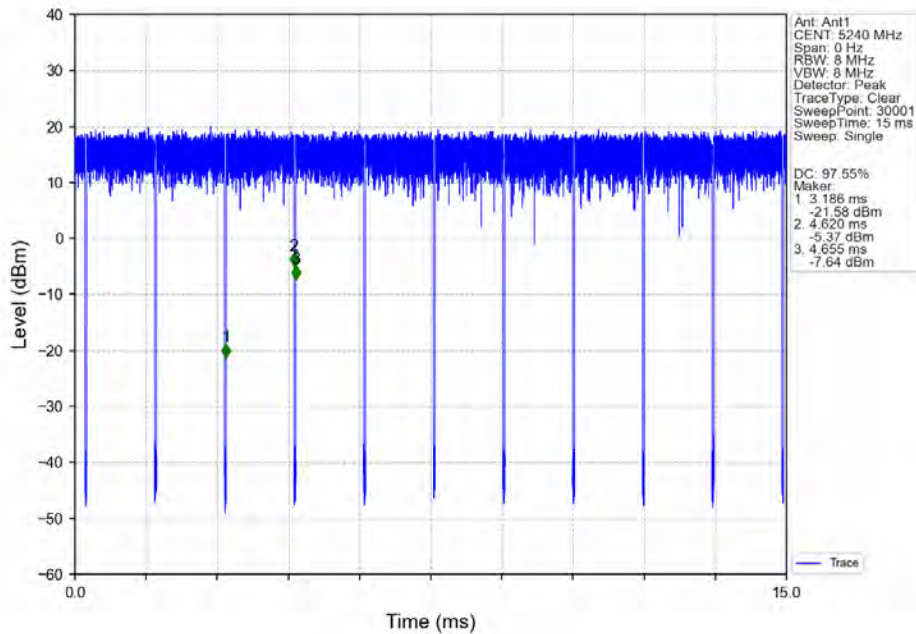
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1.2 Test Graph

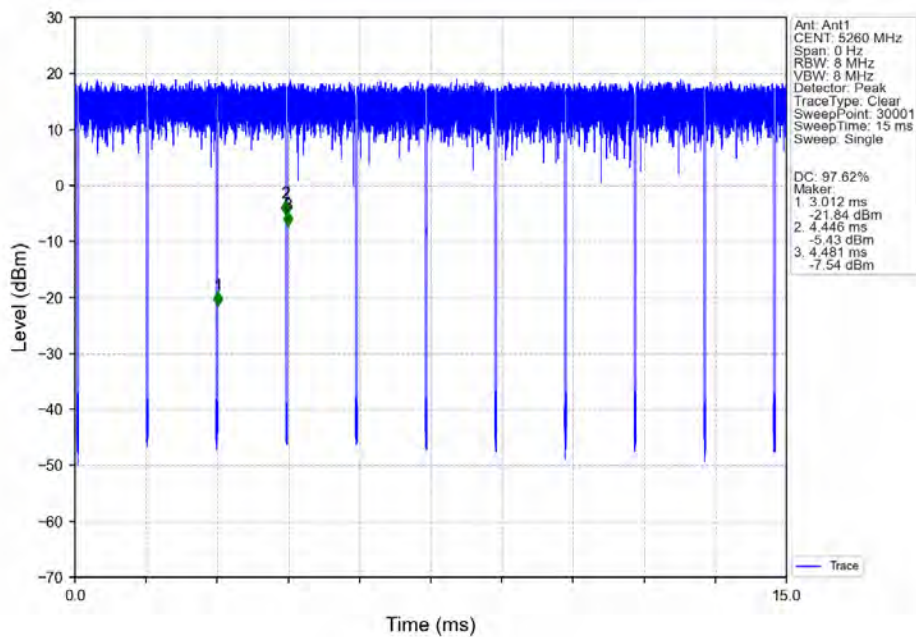
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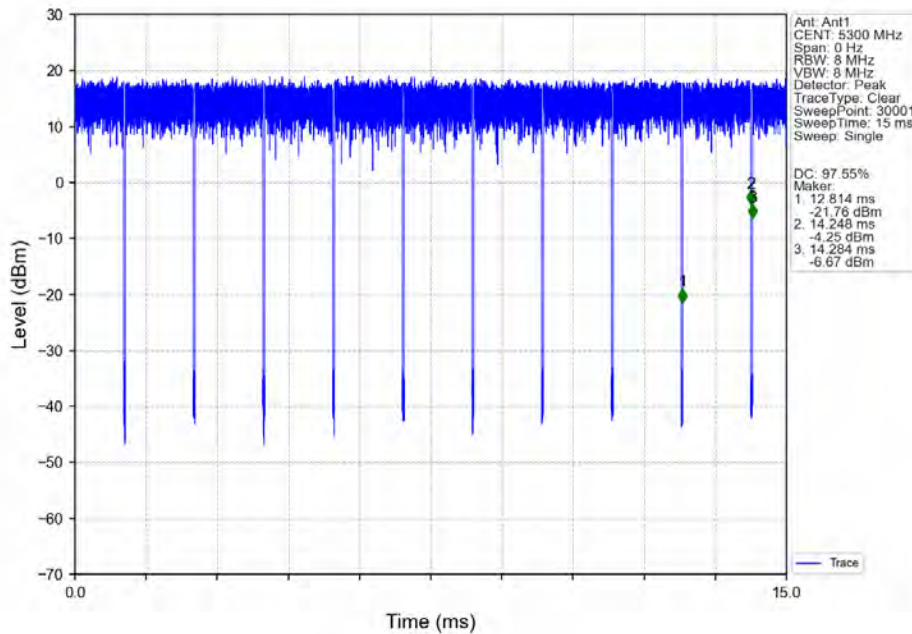
802.11a_HCH_5240MHz_Ant1_NTNV



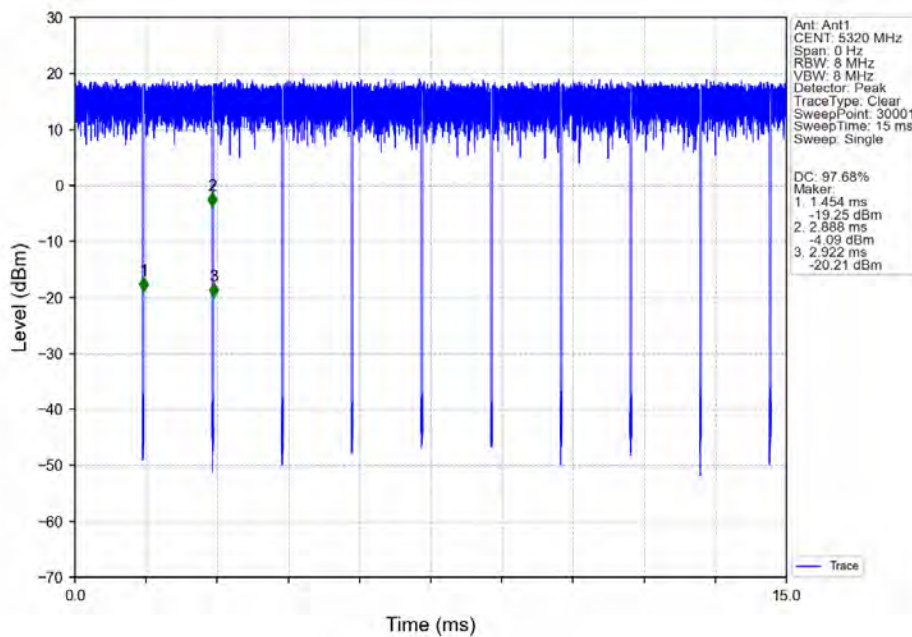
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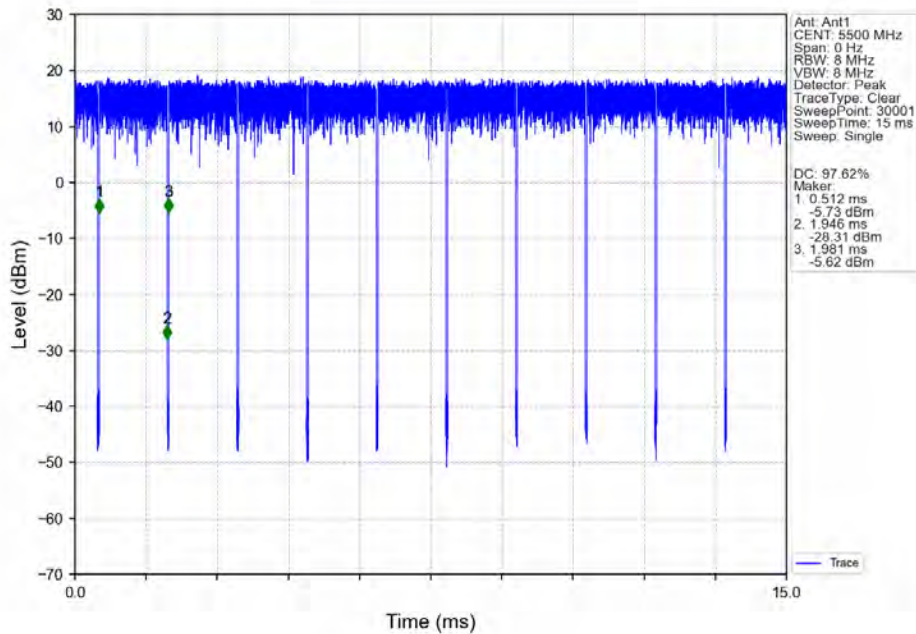
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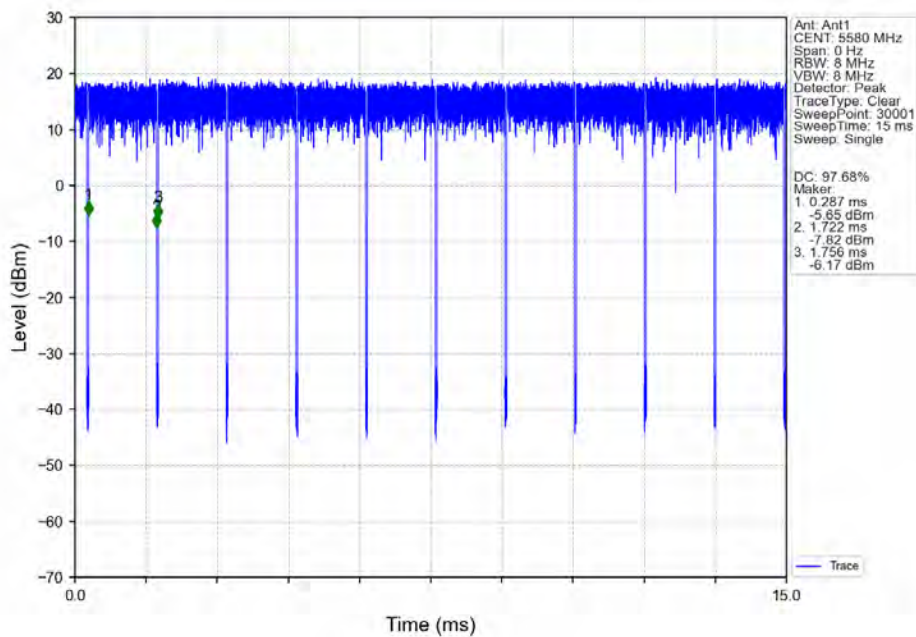
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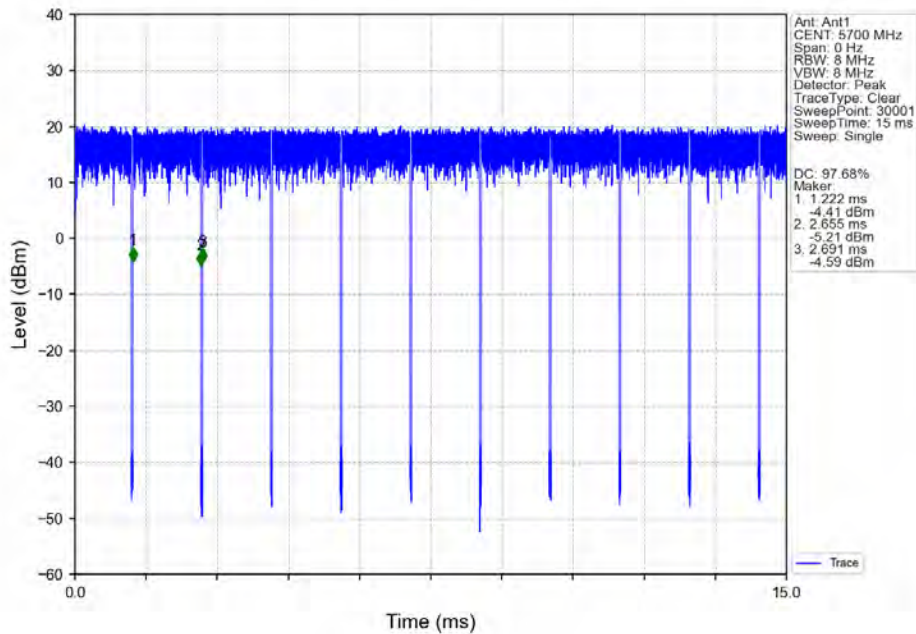
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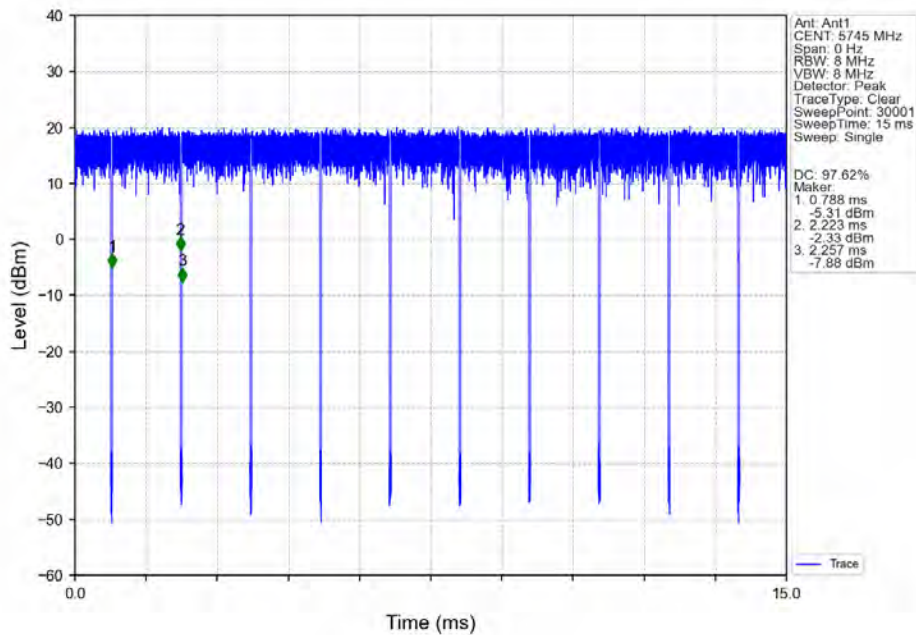
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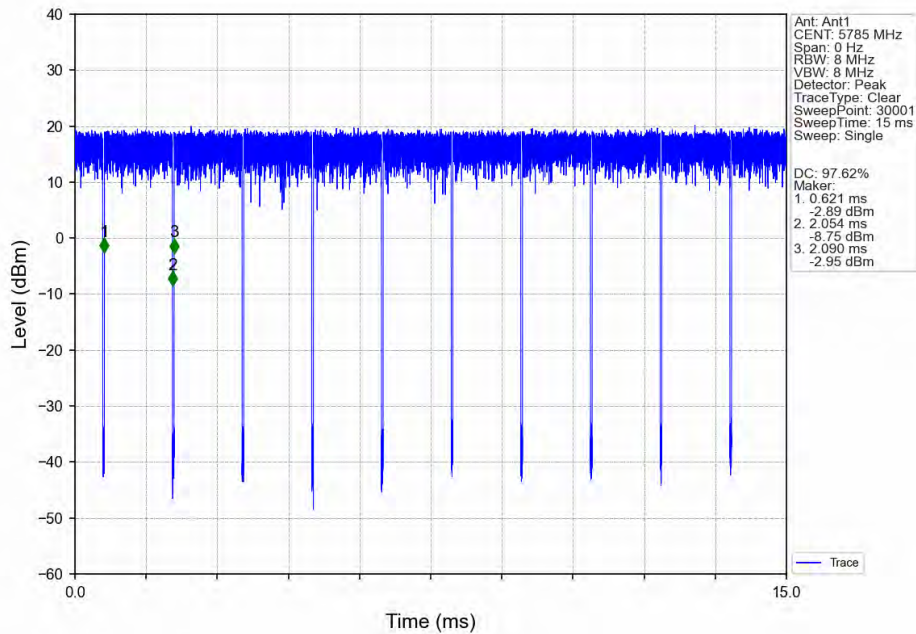
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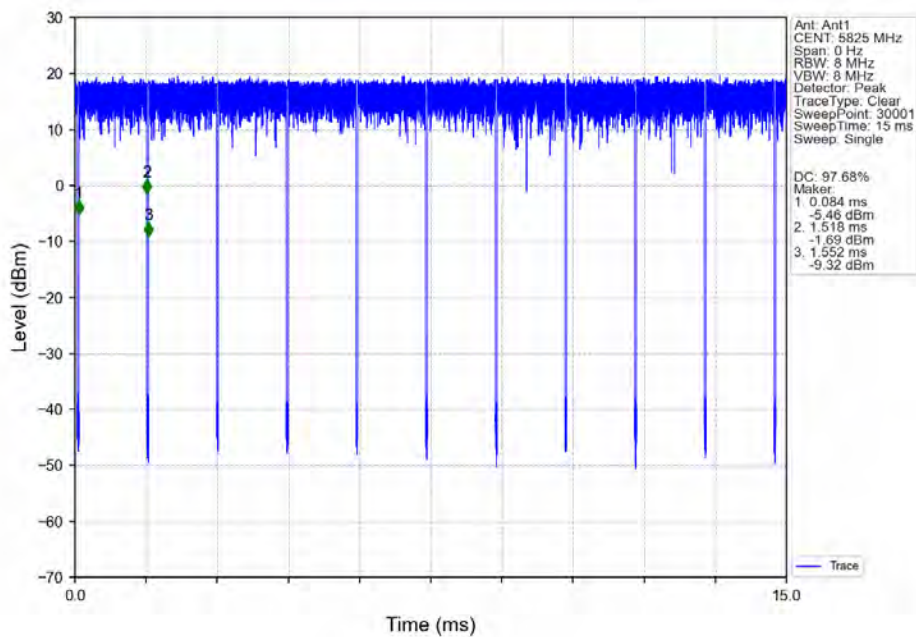
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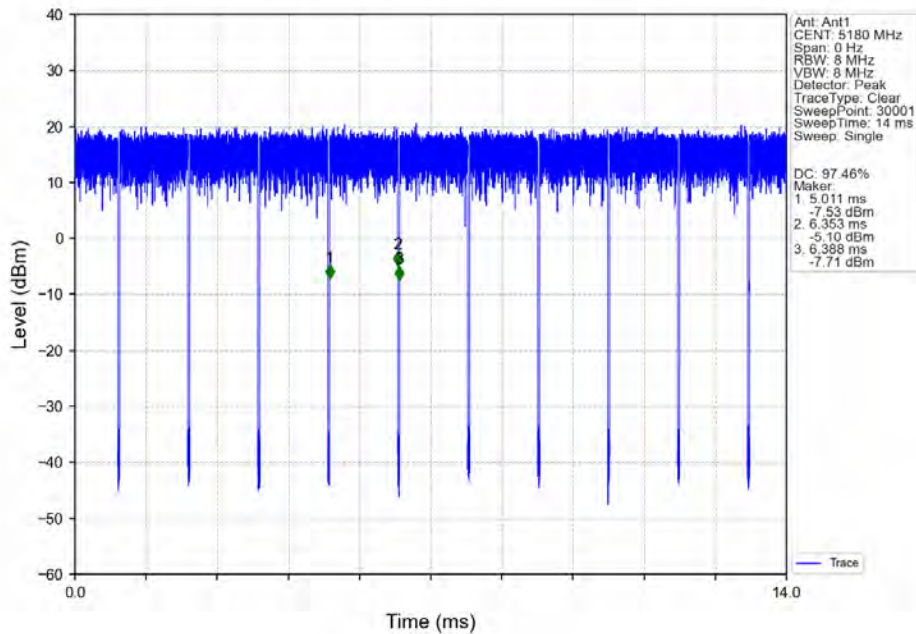
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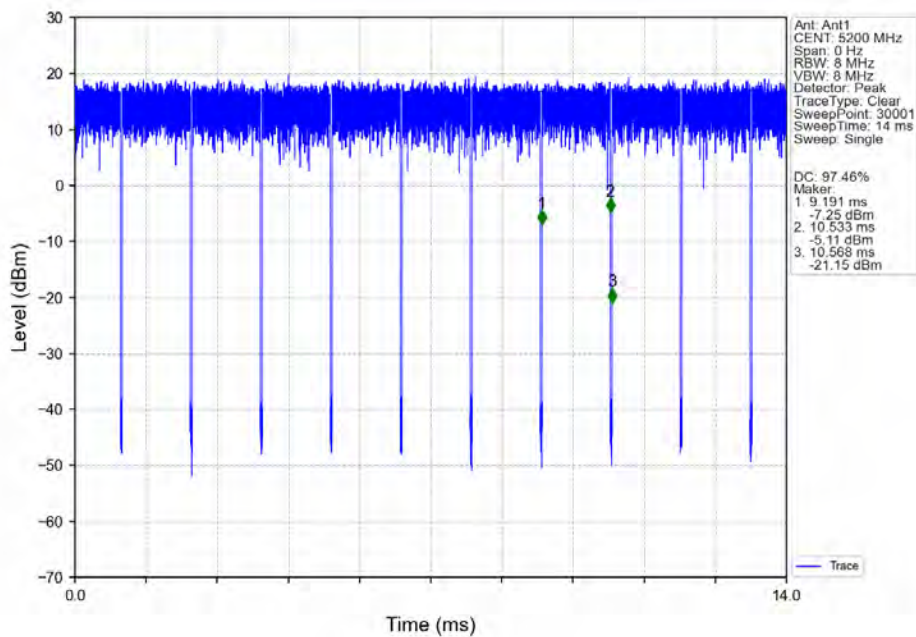
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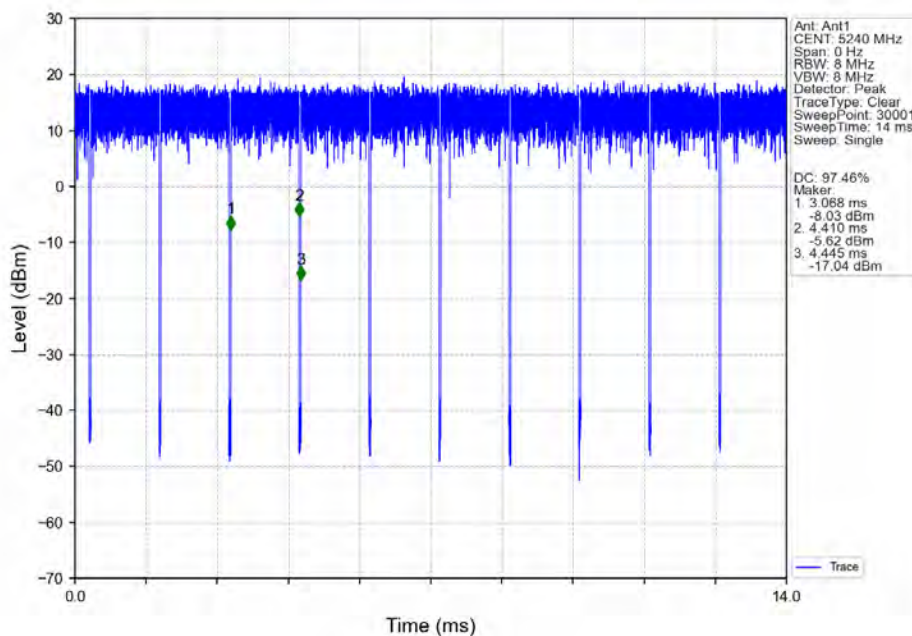
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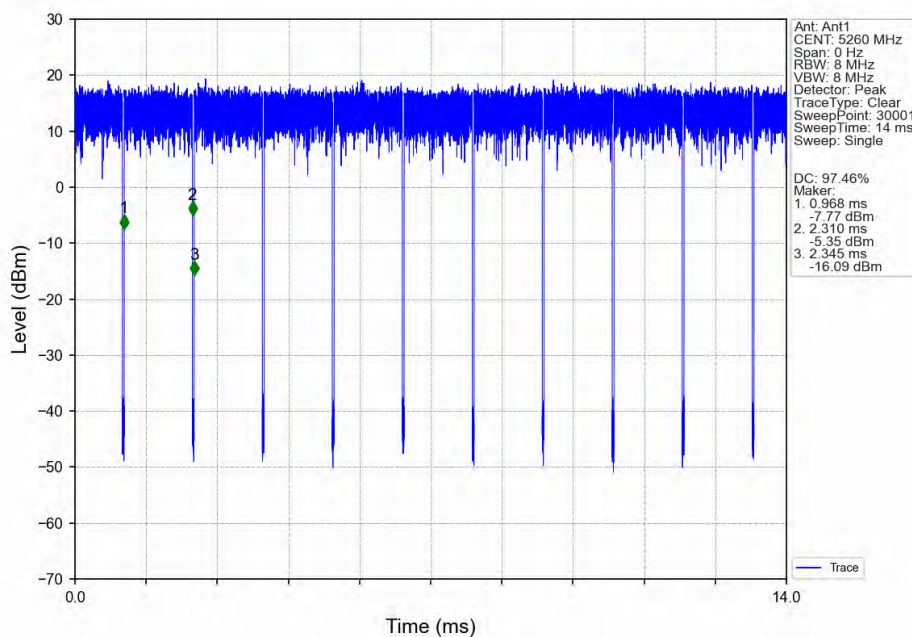
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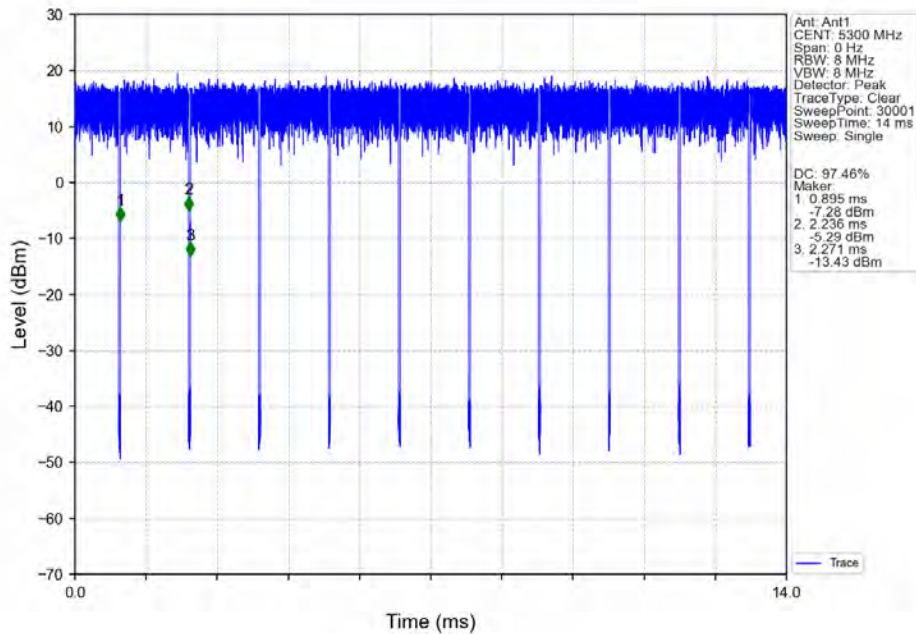
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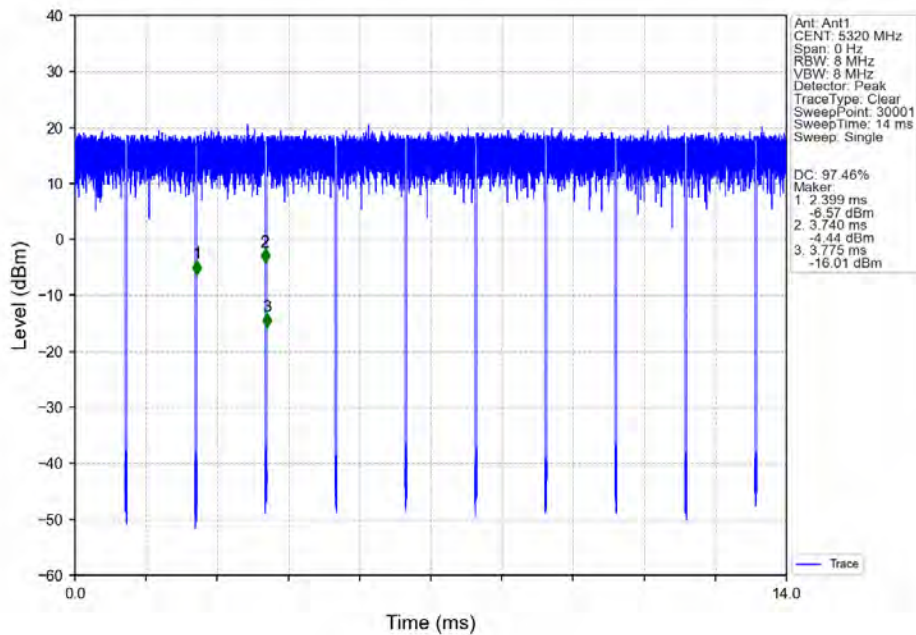
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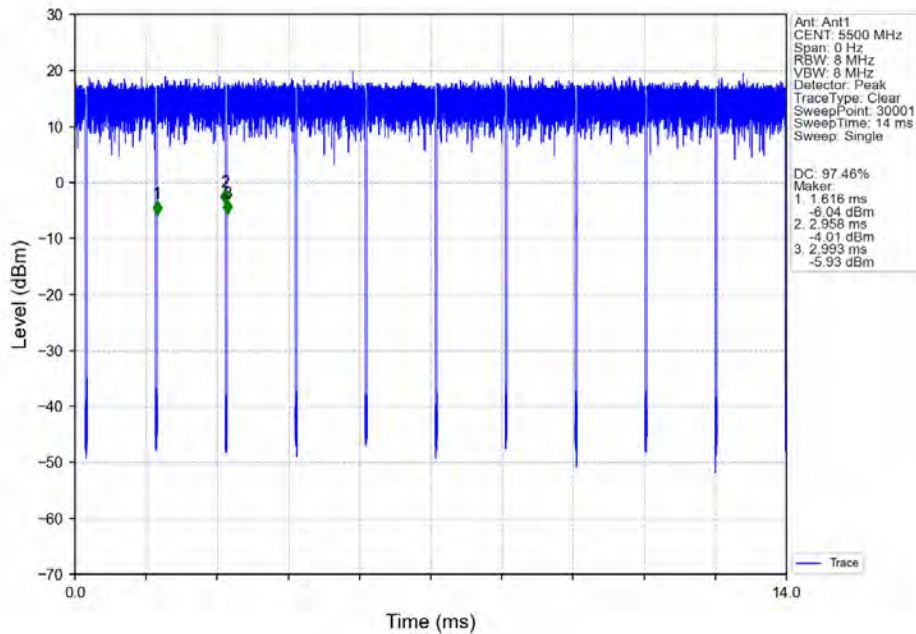
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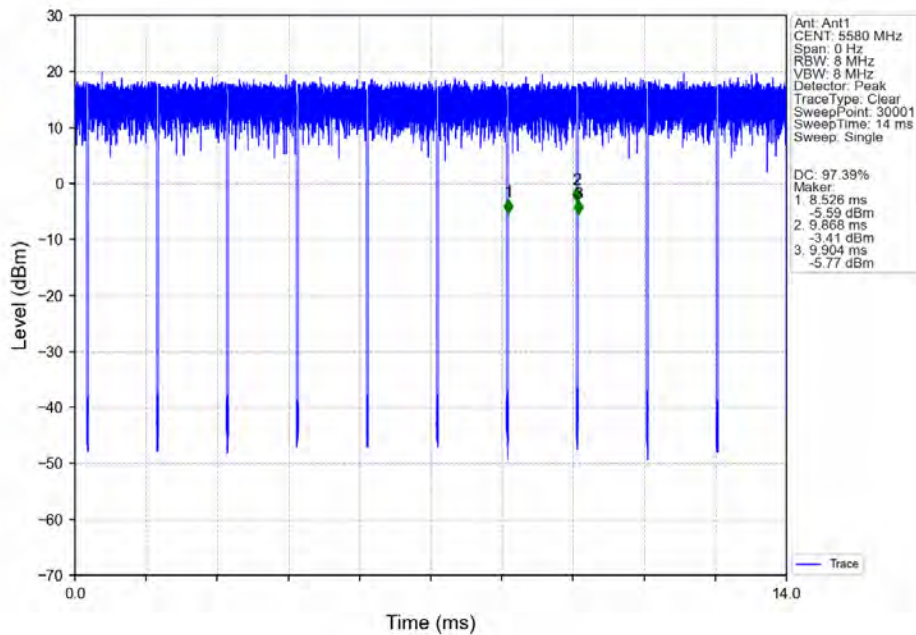
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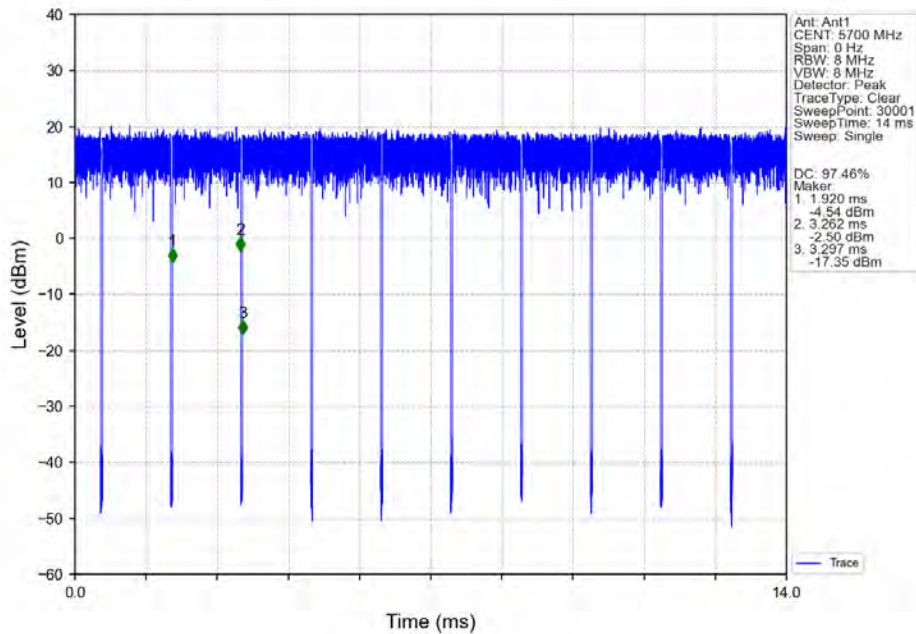
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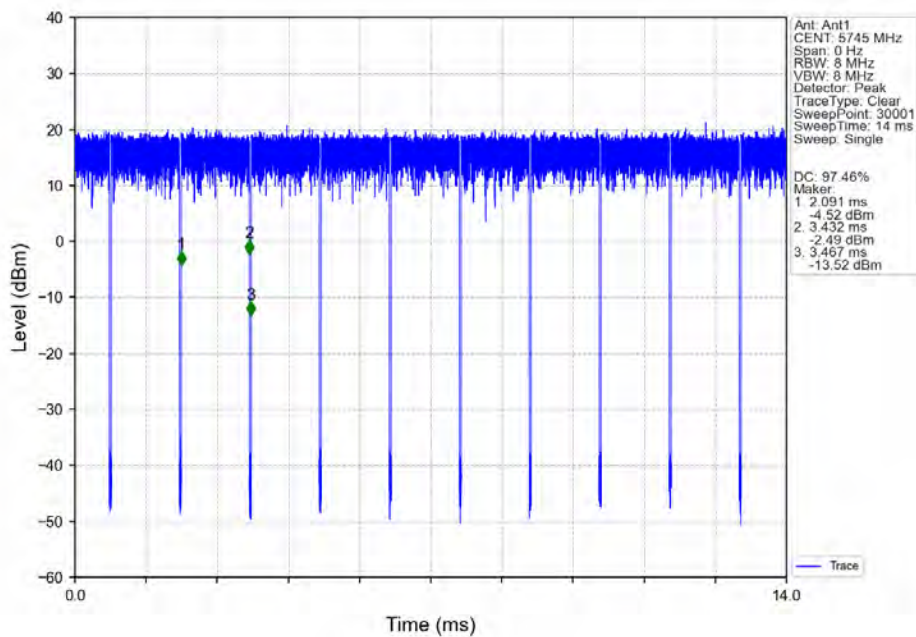
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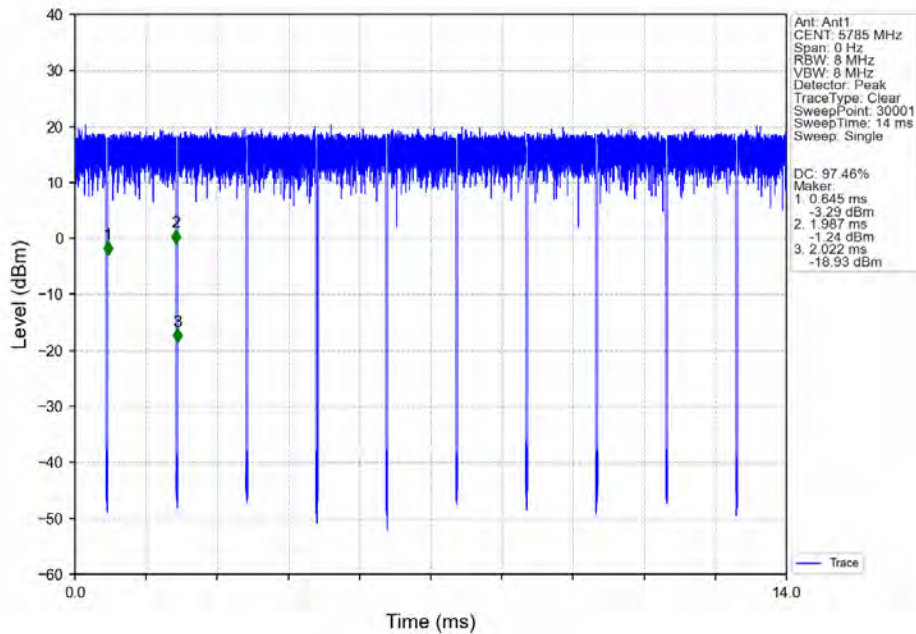
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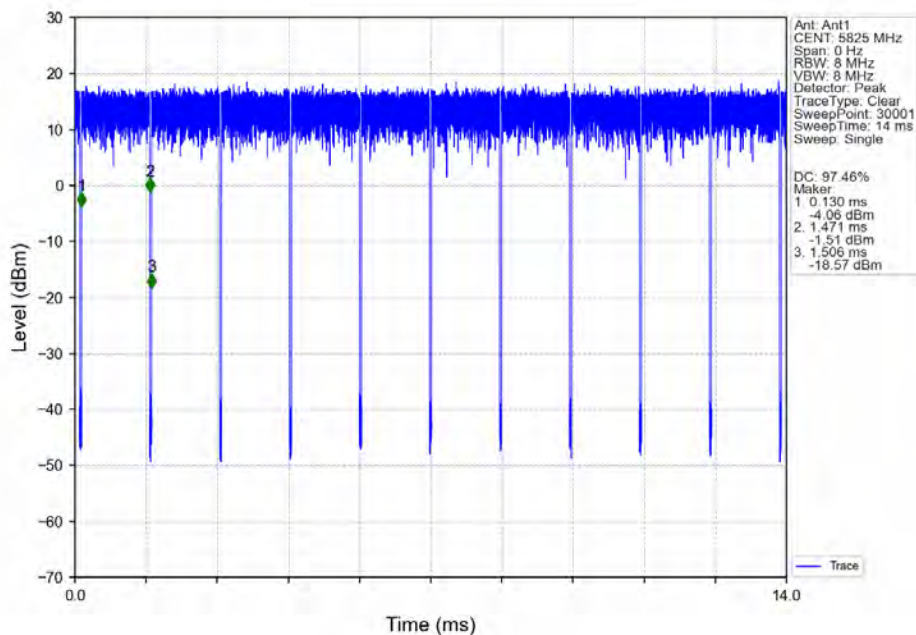
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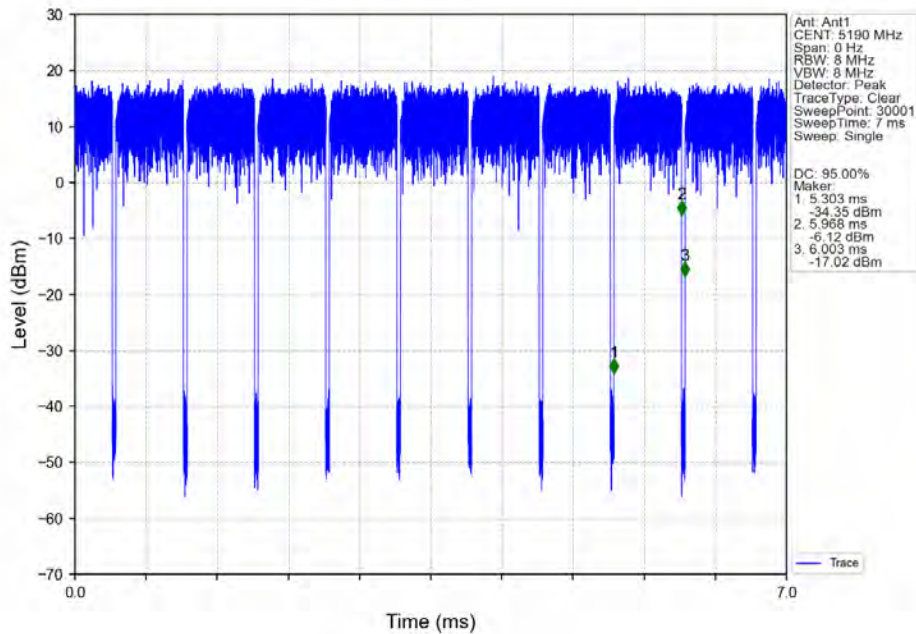
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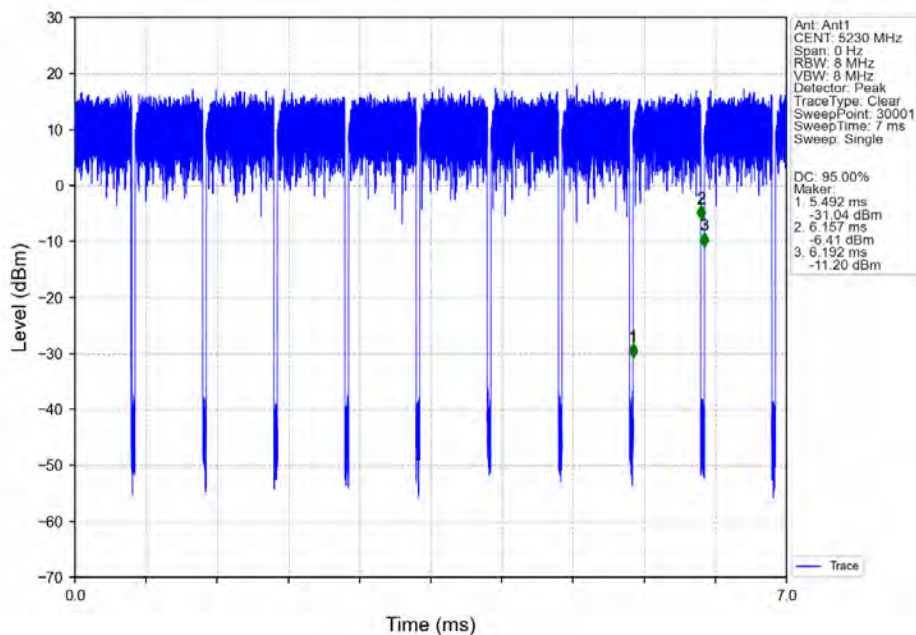
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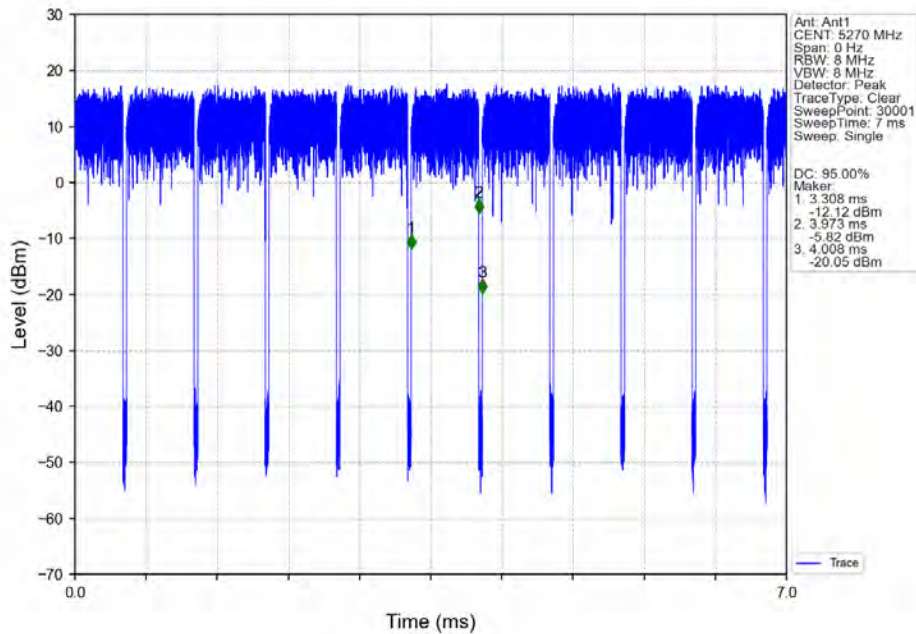
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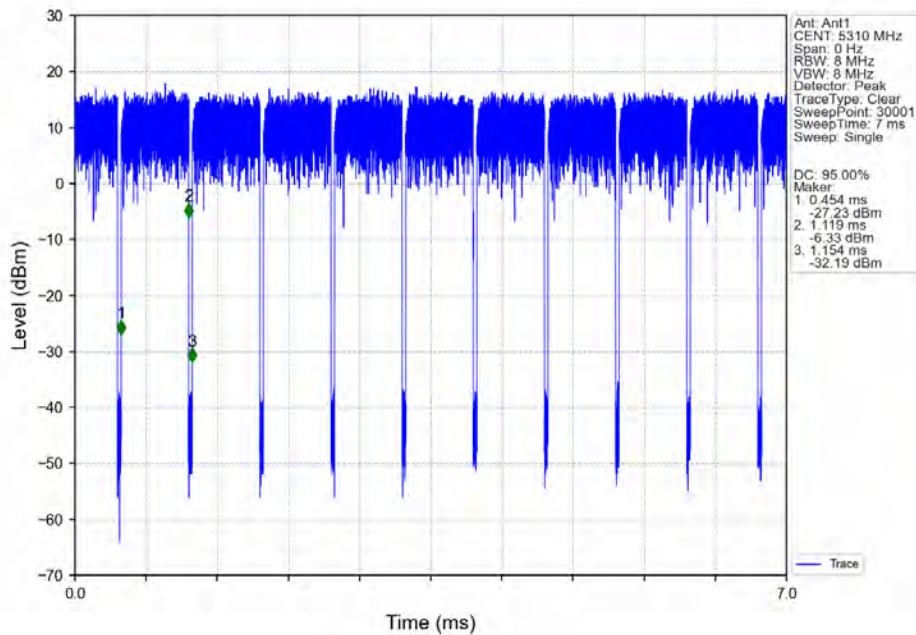
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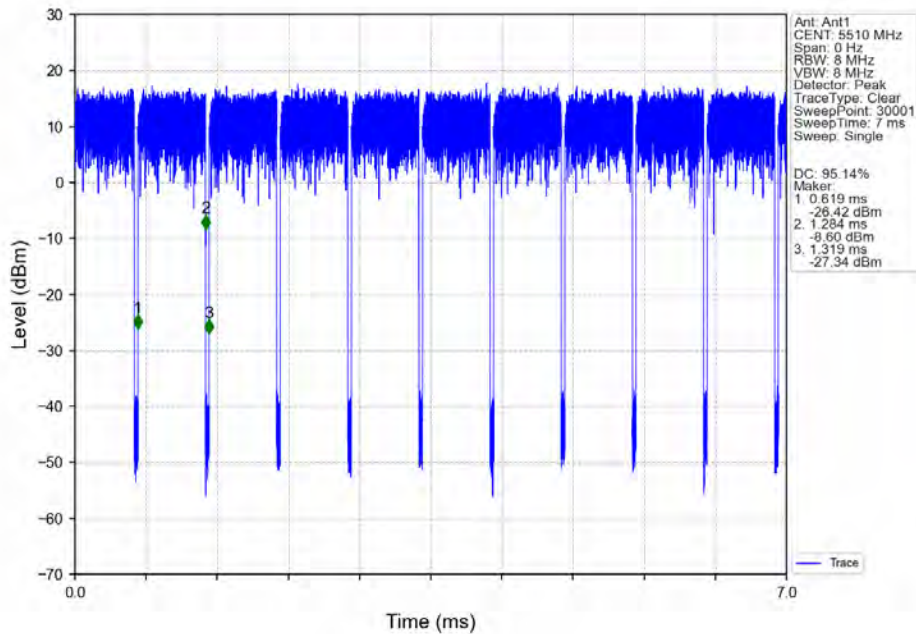
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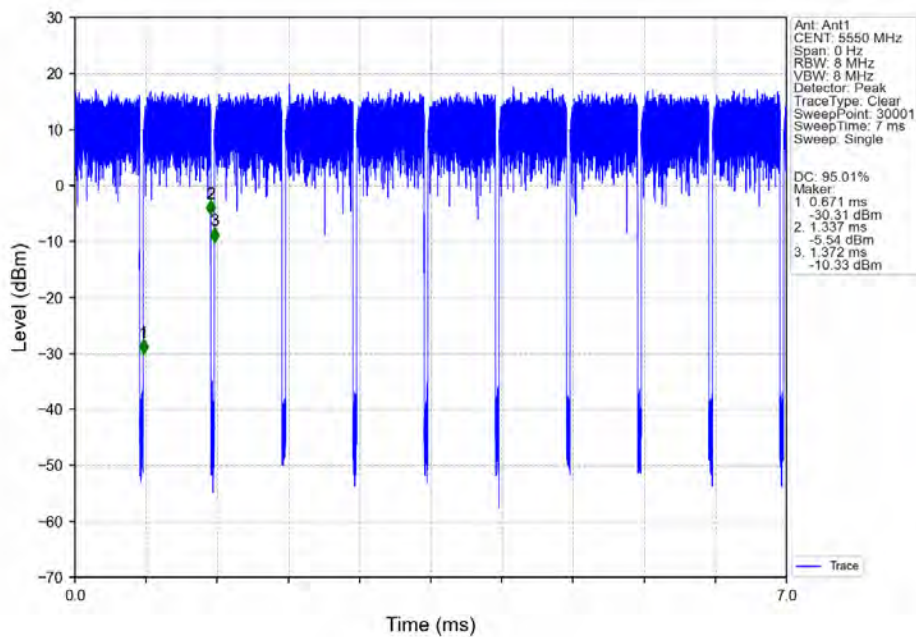
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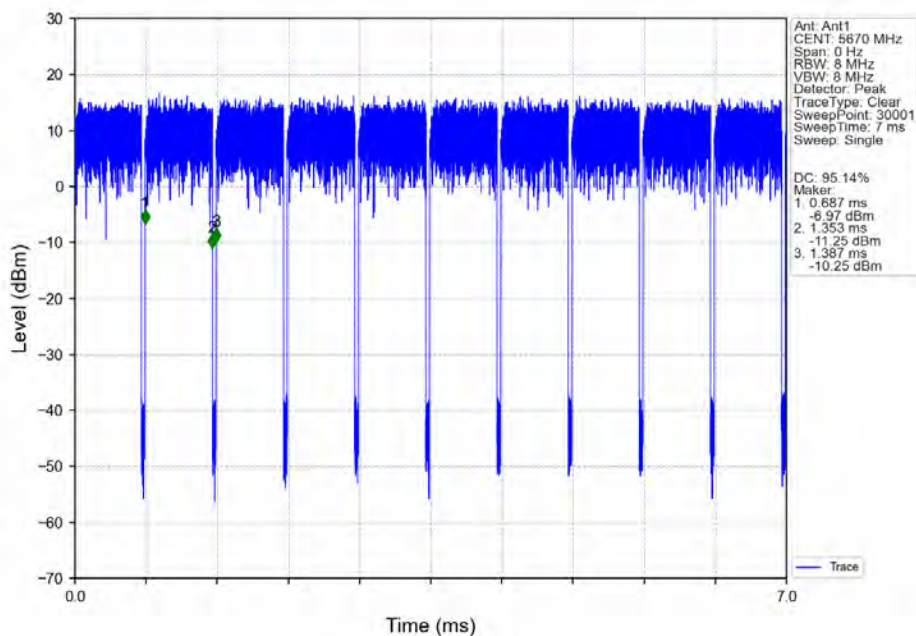
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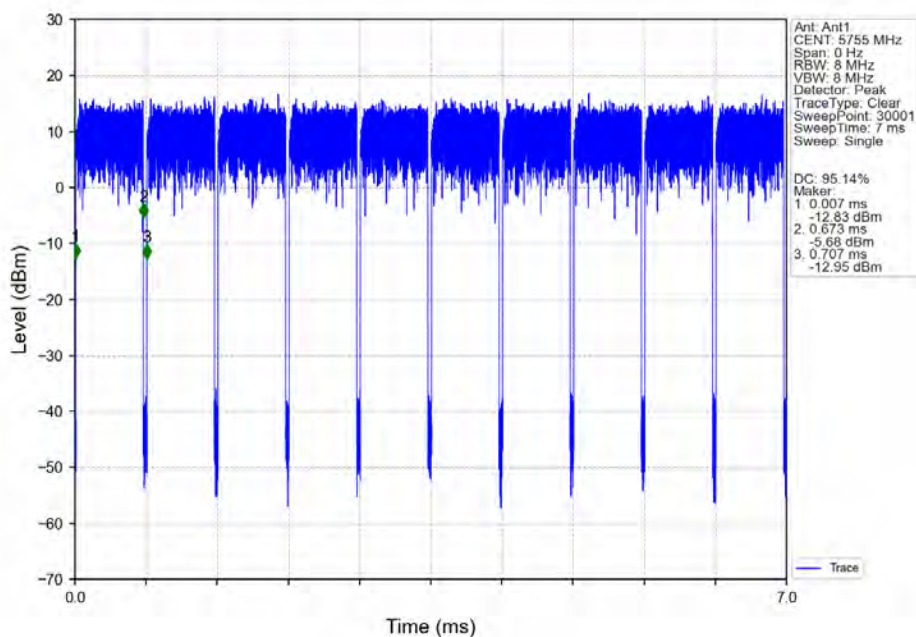
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



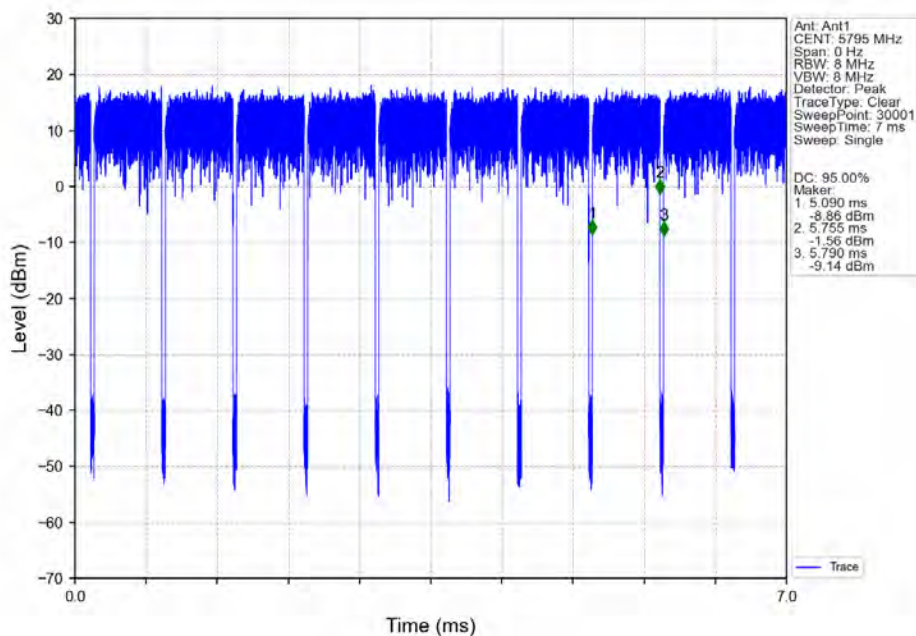
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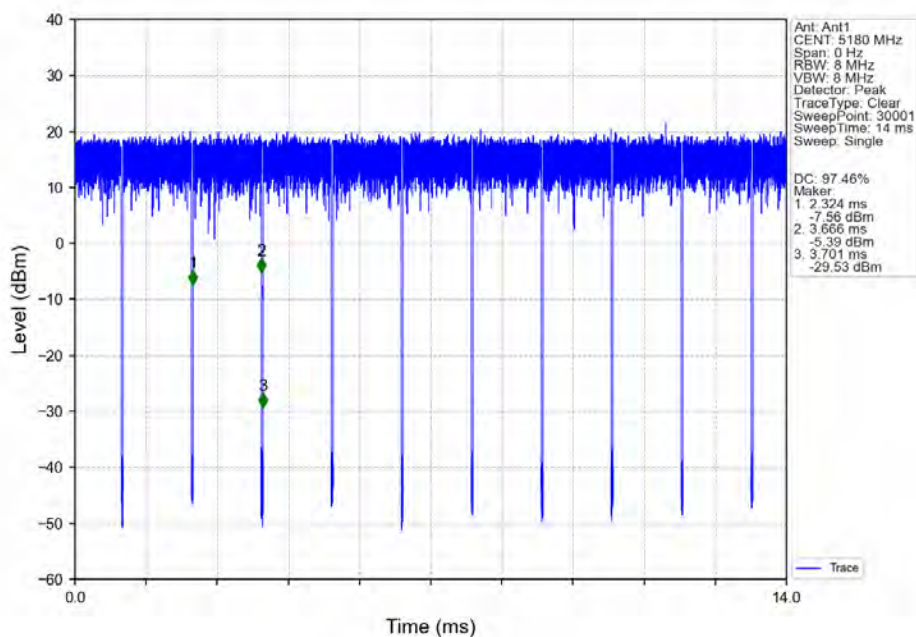
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



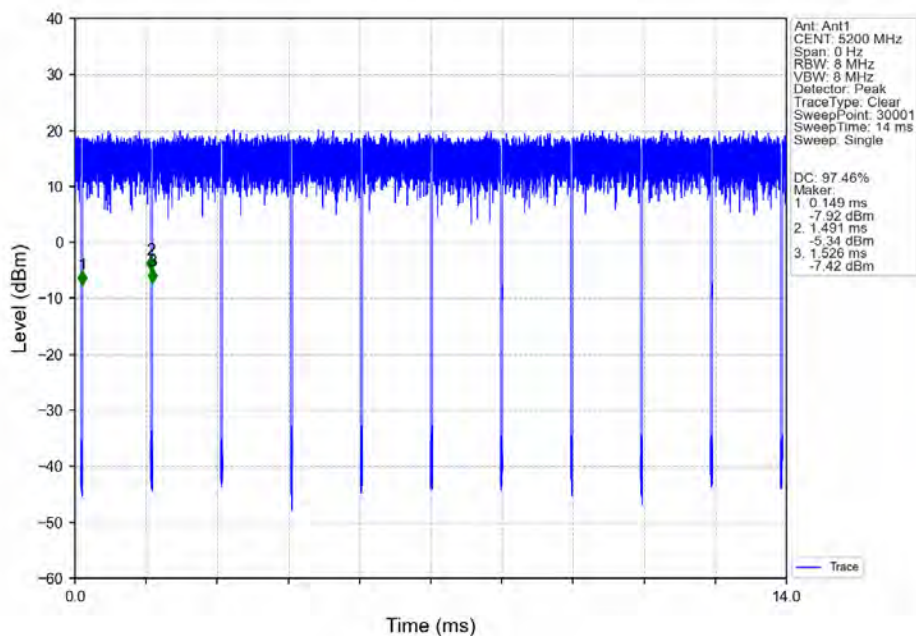
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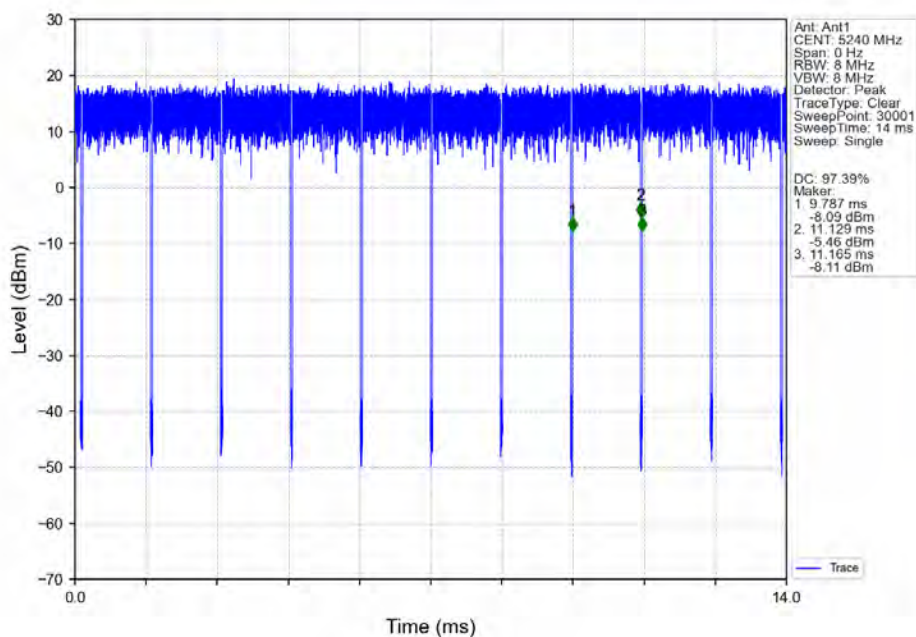
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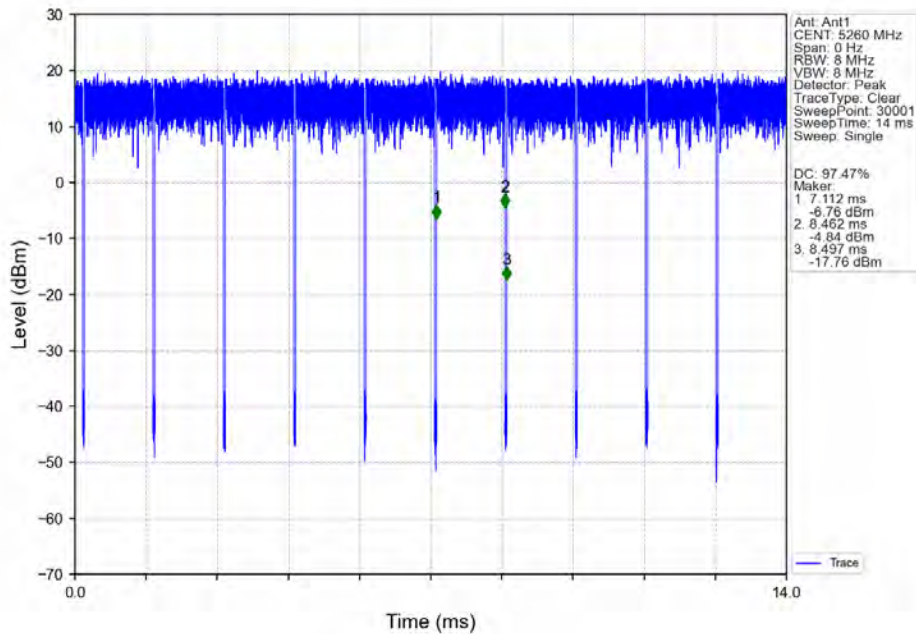
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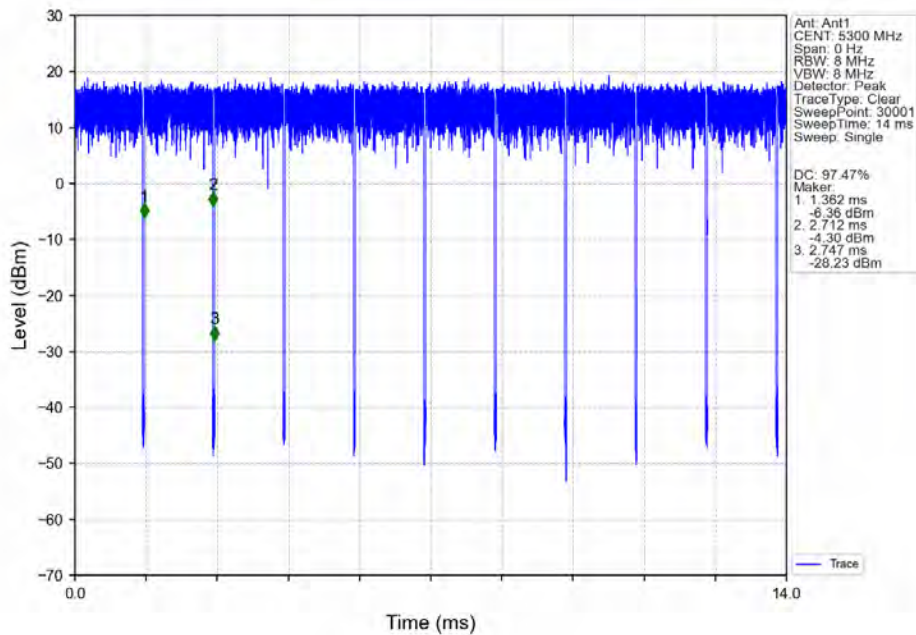
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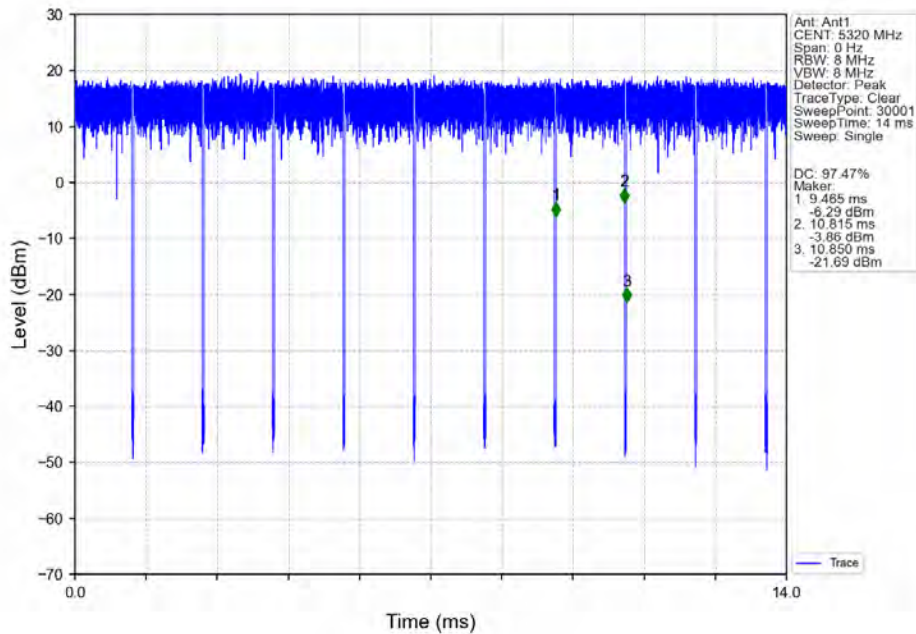
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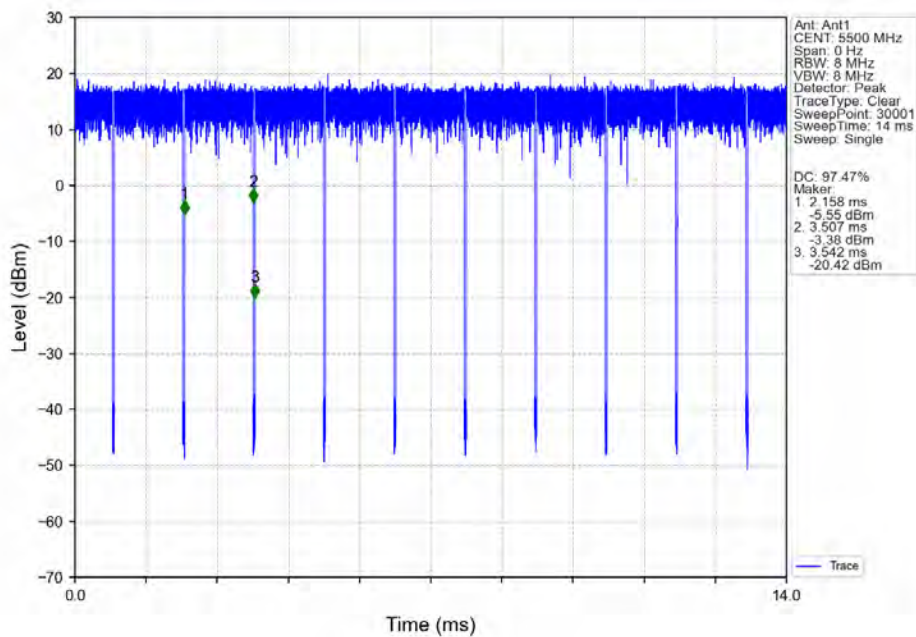
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



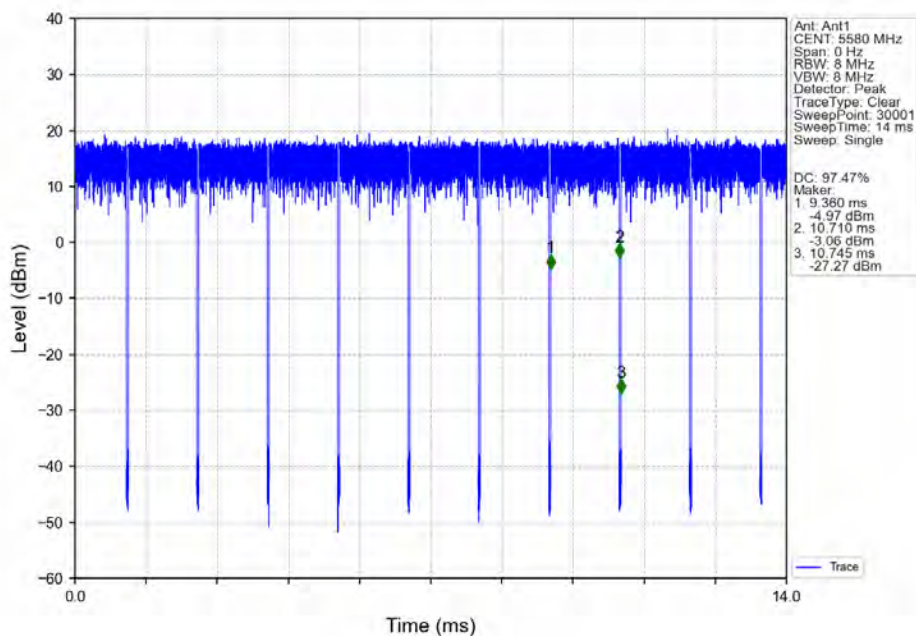
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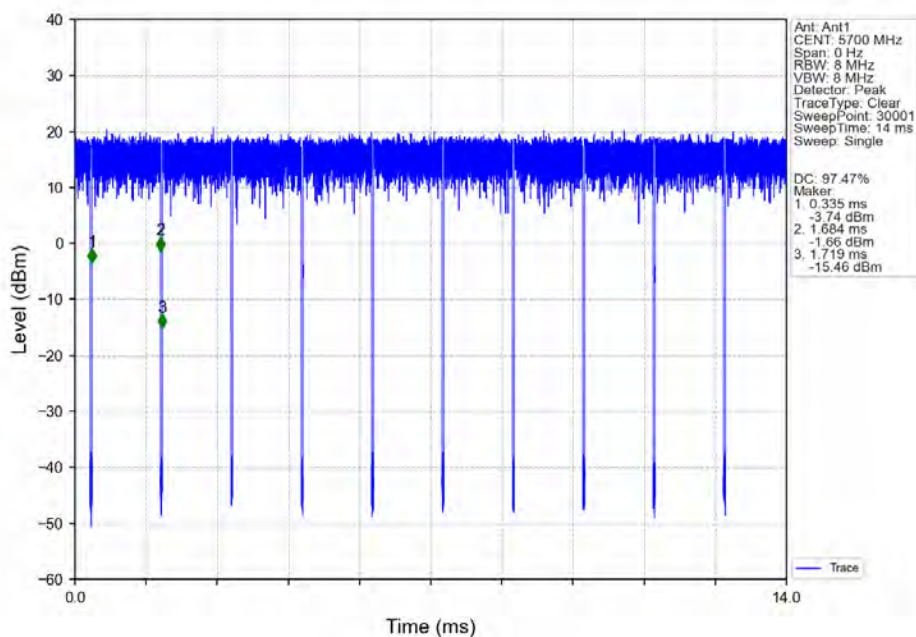
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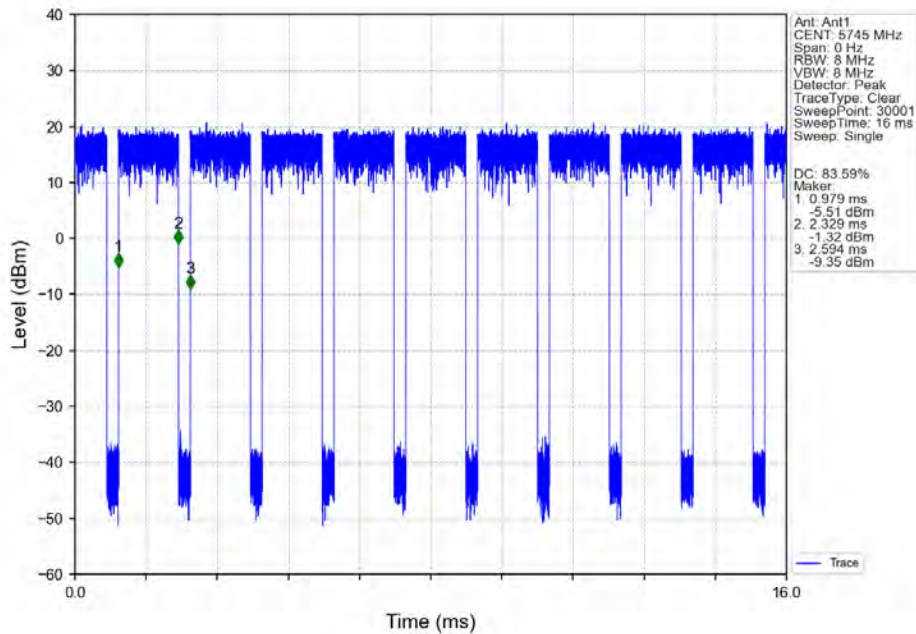
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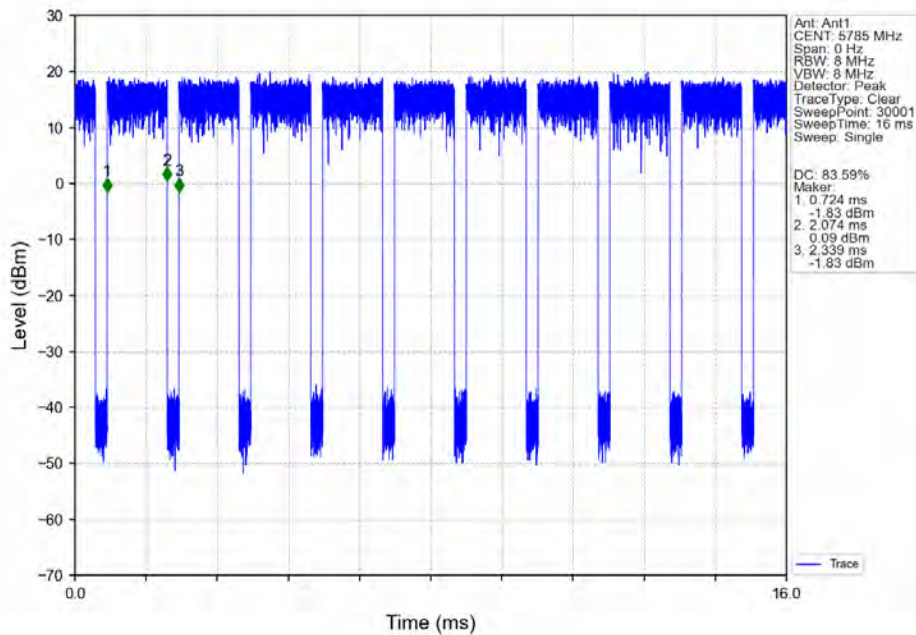
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



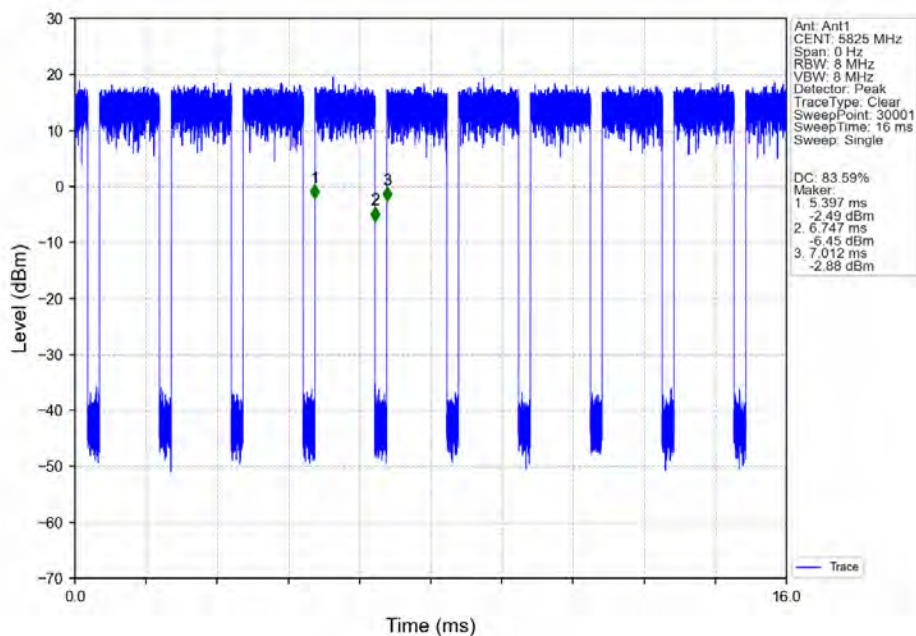
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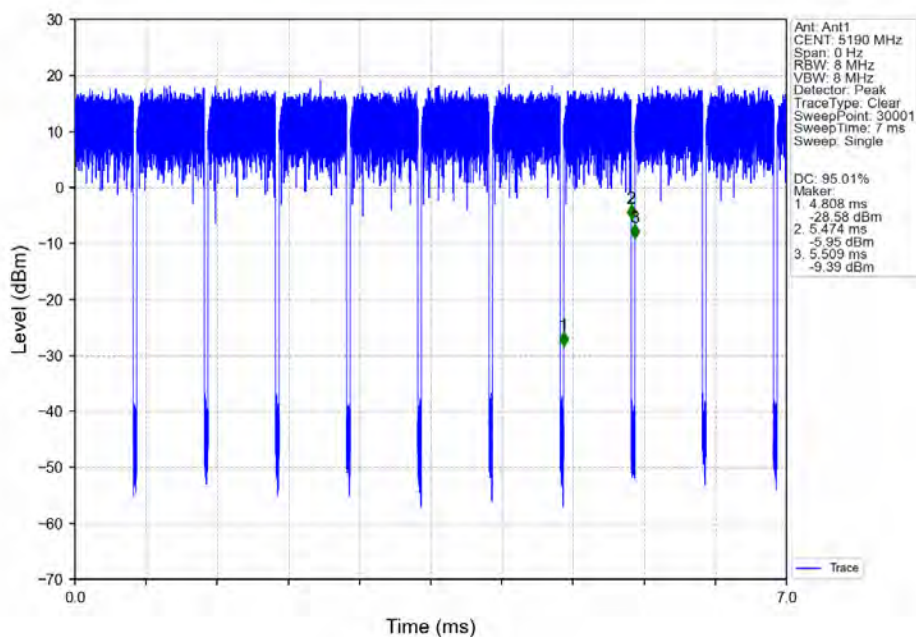
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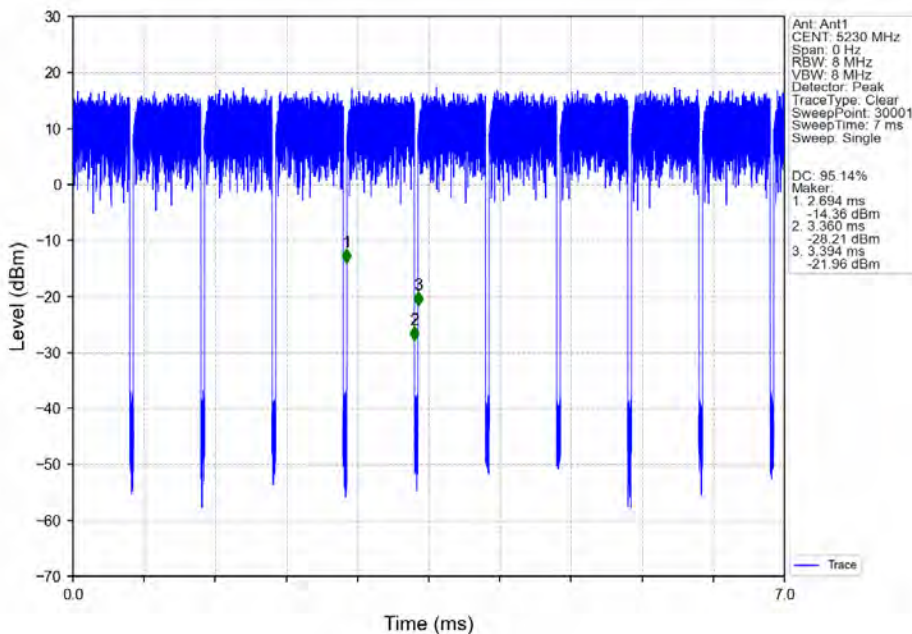
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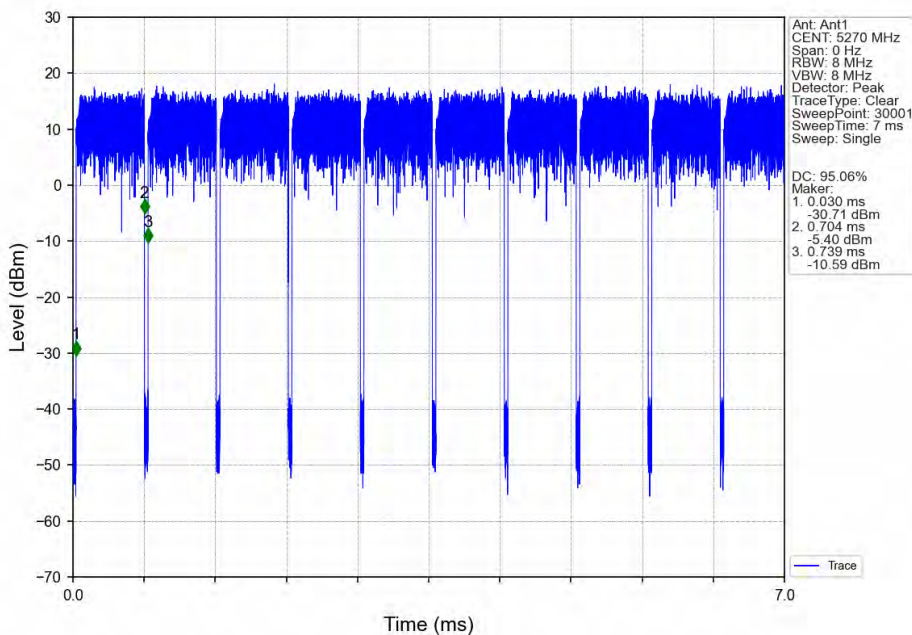
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



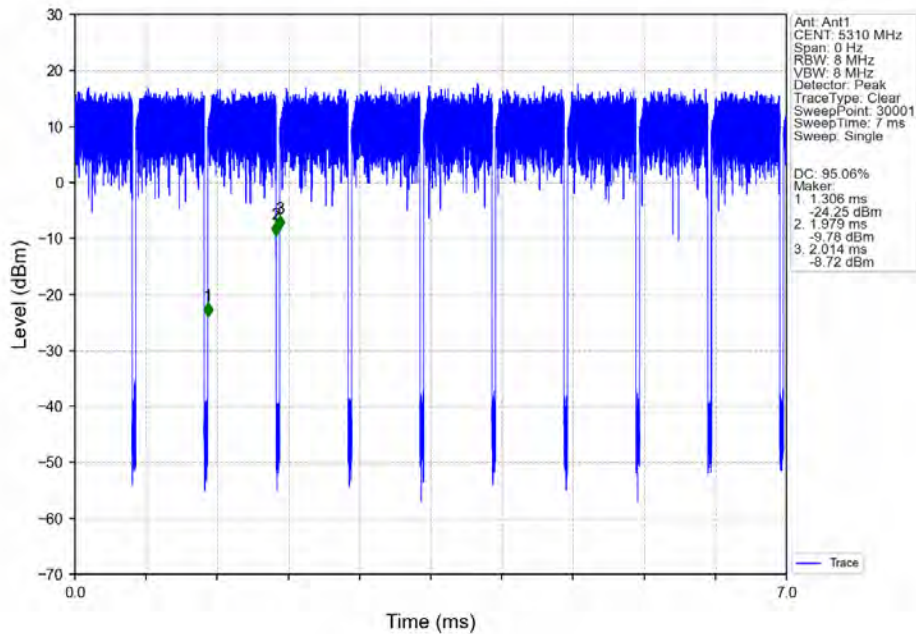
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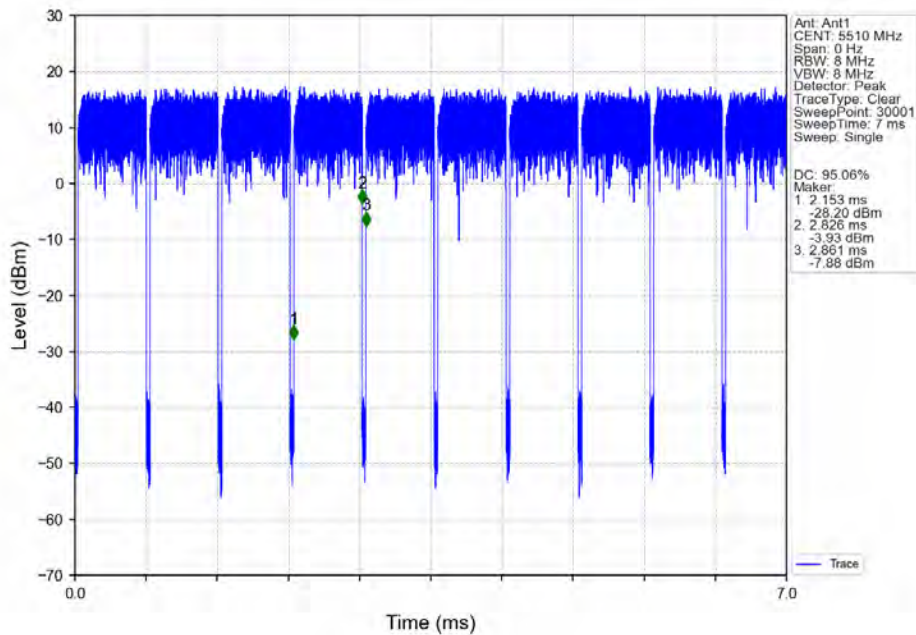
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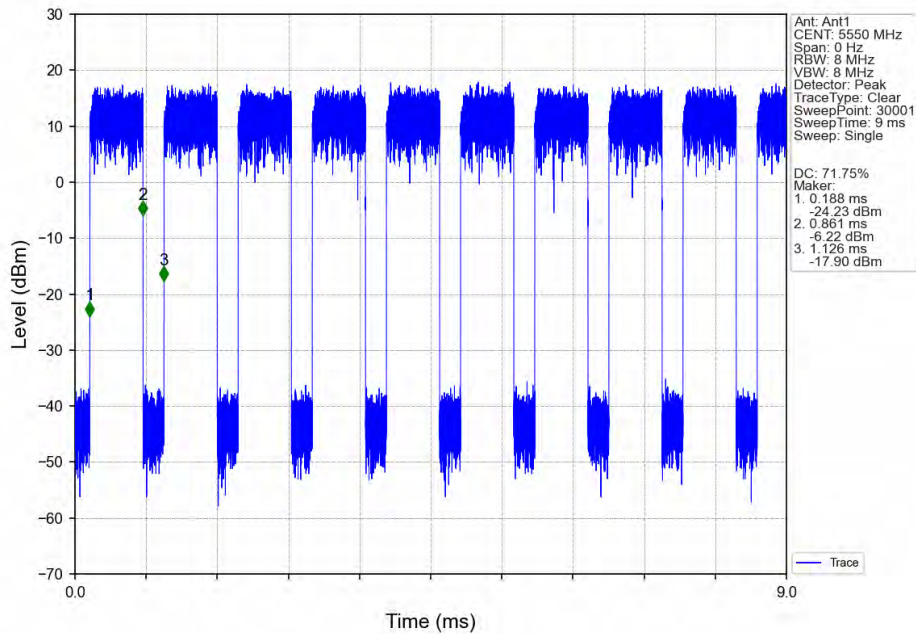
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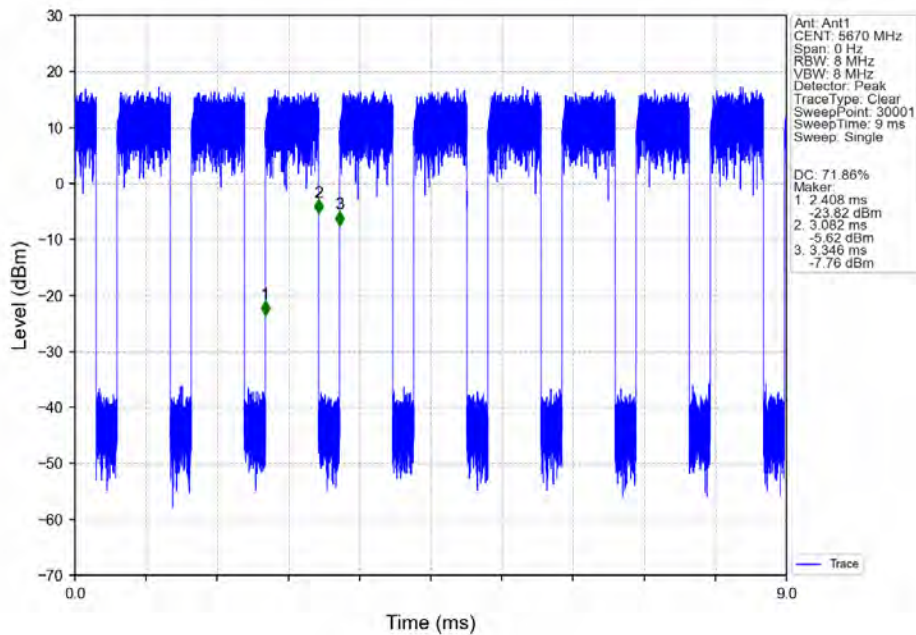
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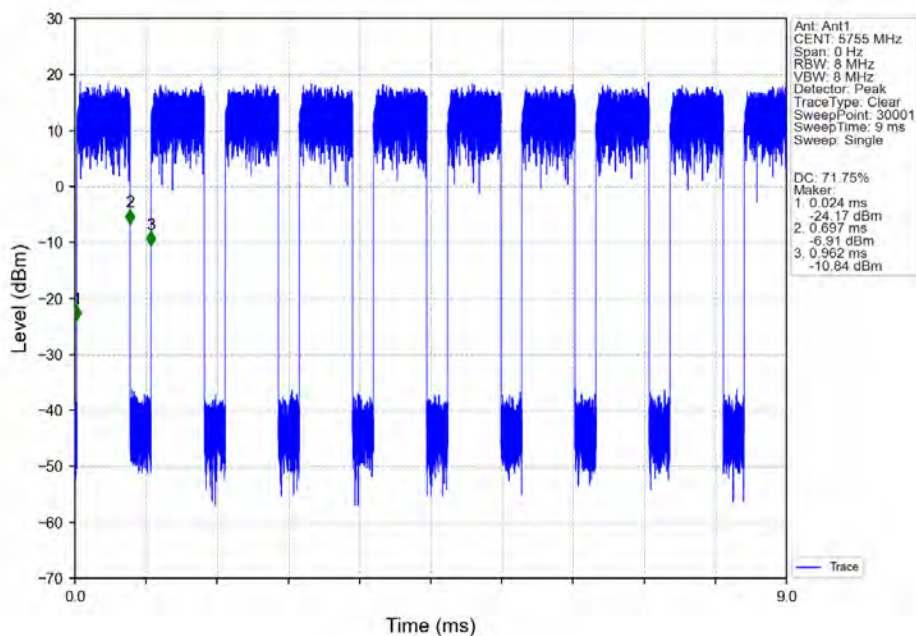
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

