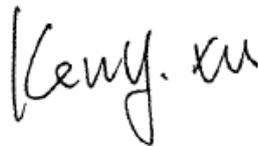


# TEST REPORT

**Application No.:** SZCR2411004163AT  
**Applicant:** Shenzhen Mammotion Innovation Co., Limited  
**Address of Applicant:** 9th Floor, Building A3, Nanshan Zhiyuan, No.1001 Xueyuan Avenue, Changyuan Community, Taoyuan Street, Nanshan District, Shenzhen  
**Manufacturer:** Shenzhen Mammotion Innovation Co., Limited  
**Address of Manufacturer:** 9th Floor, Building A3, Nanshan Zhiyuan, No.1001 Xueyuan Avenue, Changyuan Community, Taoyuan Street, Nanshan District, Shenzhen  
**Factory:** Huizhou BYD Electronic Co., Ltd.  
**Address of Factory:** Daya Bay Economic and Technological Development Zone, Huizhou City  
**Equipment Under Test (EUT):**  
**EUT Name:** LUBA mini AWD  
**Model No.:** 800, 1500, 800H, 1500H ♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** MAMMOTION  
**FCC ID:** 2BFWS-LUBAMINI  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2024-11-07  
**Date of Test:** 2024-12-04 to 2024-12-12  
**Date of Issue:** 2024-12-22

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu  
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-12-22		Original

<b>Authorized for issue by:</b>			
		<i>Benson Wang</i>	
		<b>Benson Wang/Project Engineer</b>	
		<i>Eric Fu</i>	
		<b>Eric Fu/Reviewer</b>	



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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		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle		KDB 789033 D02 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 D02 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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### Declaration of EUT Family Grouping:

Model No.: 800, 1500, 800H, 1500H

Only the model 1500 with battery 1 & Charge station model: CHG4300 was fully tested. The model 1500 with battery 2 was performed the Radiated emissions(30MHz-1GHz) test for discrepancy. According to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on battery. The battery model which 1500/1500H use is MWBT06S02P-01; The battery model which 800/800H use is MWBT06S02P-03.



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## 4 General Information

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

Power supply:	Powered by Rechargeable Li-ion Battery. Battery 1 information Model: MWBT06S02P-01 Nominal Voltage: 21.6Vdc Rated Capacity: 6.1Ah/131.76Wh Battery 2 information Model: MWBT06S02P-03 Nominal Voltage: 21.6Vdc Rated Capacity: 4.5Ah/97.2Wh Charging station information Model1: CHG4300 Model2: CHG4301 Input: 28Vdc, 60W Output: 28Vdc, 2.15A Charging station adapter information Model: TS-A060-2802151 Input: 100-240VAC, 50/60Hz 1.5A Max Output: 28.0Vdc, 2.15A, 60.2W
Cable(s):	AC cable of adapter: 185cm unshielded DC cable of adapter to EUT: 701cm unshielded DC Cable of charge station to RTK:221cm unshielded
Cable Loss (for RF conducted test):	0.5dB
Operation Frequency / Number of channels (20MHz):	U-NII-1:5180-5240MHz (4 Channels) U-NII-2A: 5260-5320MHz (4 Channels) U-NII-2C: 5500-5700MHz (11 Channels) U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency / Number of channels(40MHz):	U-NII-1:5190-5230MHz (2 Channels) U-NII-2A: 5270-5310MHz (2 Channels) U-NII-2C: 5510-5670MHz (5 Channels) U-NII-3: 5755-5795MHz (2 Channels)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);
Channel Spacing:	802.11a/n 20: 20MHz; 802.11n 40: 40MHz;
DFS Function:	Slave without Radar detection
Antenna Type:	PIFA Antenna
Antenna Gain:	2.8dBi



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**4.2 Description of Support Units**

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

**4.3 Measurement Uncertainty**

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

Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>CISPR/ETSI</sub> (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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### 4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

### 4.5 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.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



## 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

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

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



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

SZEMC-TRF-01 Rev. A/1

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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
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2024-03-27	2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13

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



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## 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.8dBi

Antenna location: Refer to internal photos



### 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 $\mu$ 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

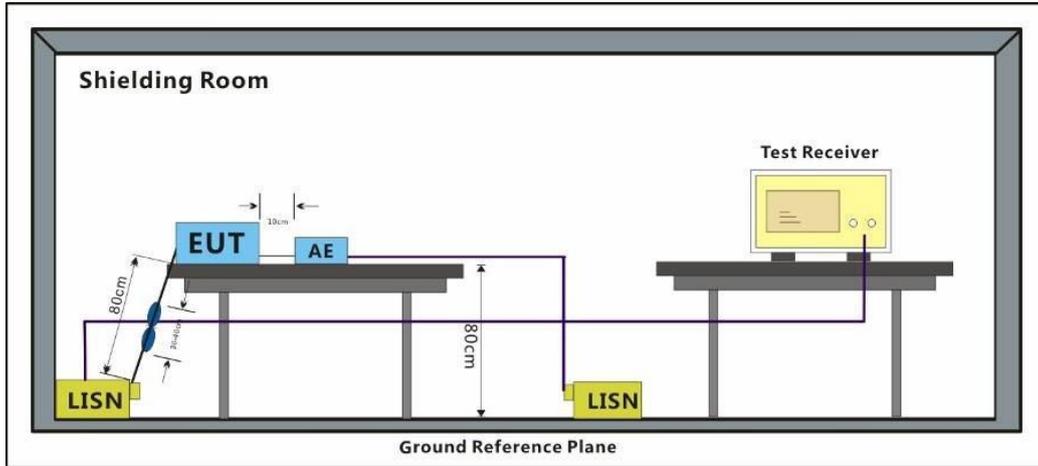
Pre-scan / Final test	Mode Code	Description
Final test	11	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;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



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### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

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

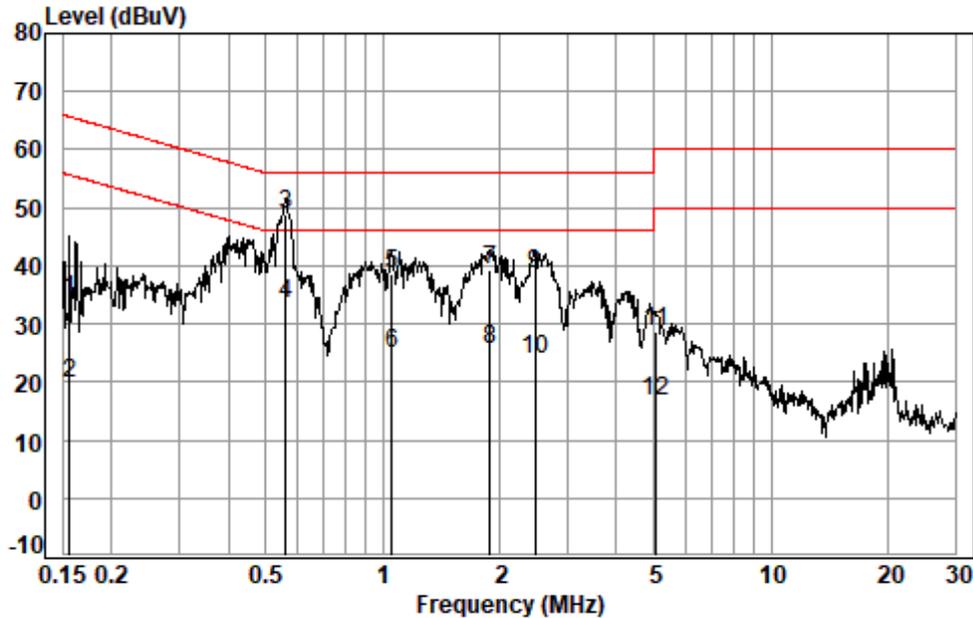
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 11; Line: Live line



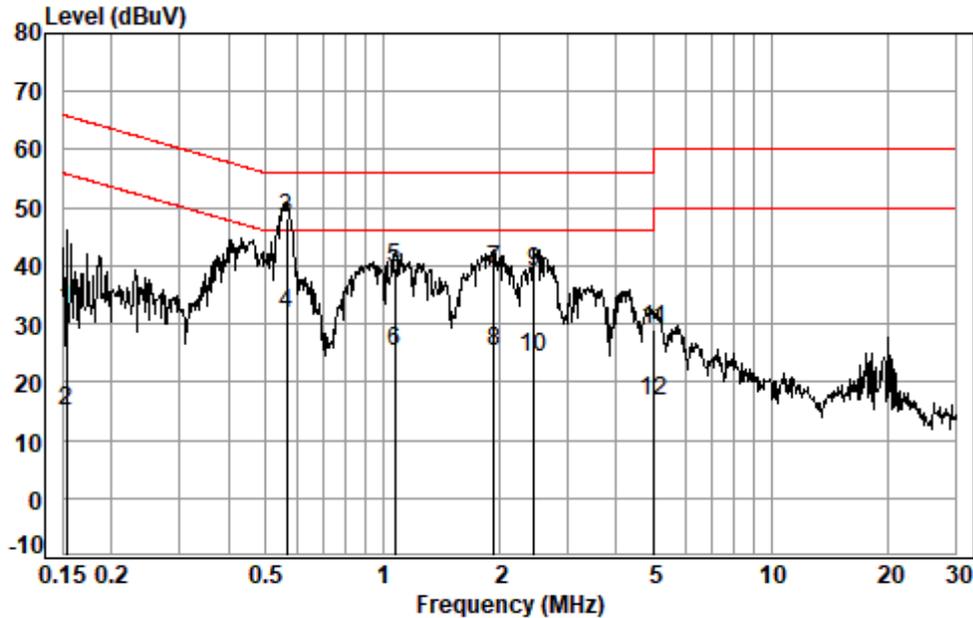
Site : Shielding Room  
 Condition: Line  
 Job No. : 04163AT  
 Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1557	0.06	10.19	23.78	34.03	65.69	-31.66 QP
2	0.1557	0.06	10.19	9.64	19.89	55.69	-35.80 Average
3 *	0.5611	0.08	9.58	39.23	48.89	56.00	-7.11 QP
4 *	0.5611	0.08	9.58	23.96	33.62	46.00	-12.38 Average
5	1.0541	0.09	9.58	28.84	38.51	56.00	-17.49 QP
6	1.0541	0.09	9.58	15.29	24.96	46.00	-21.04 Average
7	1.8879	0.10	9.58	29.72	39.40	56.00	-16.60 QP
8	1.8879	0.10	9.58	15.84	25.52	46.00	-20.48 Average
9	2.4736	0.11	9.62	29.01	38.74	56.00	-17.26 QP
10	2.4736	0.11	9.62	14.14	23.87	46.00	-22.13 Average
11	5.0580	0.12	9.66	18.98	28.76	60.00	-31.24 QP
12	5.0580	0.12	9.66	6.86	16.64	50.00	-33.36 Average



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Test Mode: 11; Line: Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 04163AT  
 Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.06	10.15	22.20	32.41	65.82	-33.41	QP
2	0.1532	0.06	10.15	4.68	14.89	55.82	-40.93	Average
3 *	0.5671	0.08	9.69	38.28	48.05	56.00	-7.95	QP
4 *	0.5671	0.08	9.69	22.10	31.87	46.00	-14.13	Average
5	1.0767	0.09	9.54	30.03	39.66	56.00	-16.34	QP
6	1.0767	0.09	9.54	15.75	25.38	46.00	-20.62	Average
7	1.9386	0.10	9.55	29.71	39.36	56.00	-16.64	QP
8	1.9386	0.10	9.55	15.71	25.36	46.00	-20.64	Average
9	2.4476	0.11	9.55	29.14	38.80	56.00	-17.20	QP
10	2.4476	0.11	9.55	14.48	24.14	46.00	-21.86	Average
11	5.0046	0.12	9.56	19.16	28.84	60.00	-31.16	QP
12	5.0046	0.12	9.56	7.14	16.82	50.00	-33.18	Average



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**7.2 Maximum Conducted output power**

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

Test Method: KDB 789033 D02 II E

Limit:

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: 24.1 °C Humidity: 35.1 % RH Atmospheric Pressure: 1020 mbar



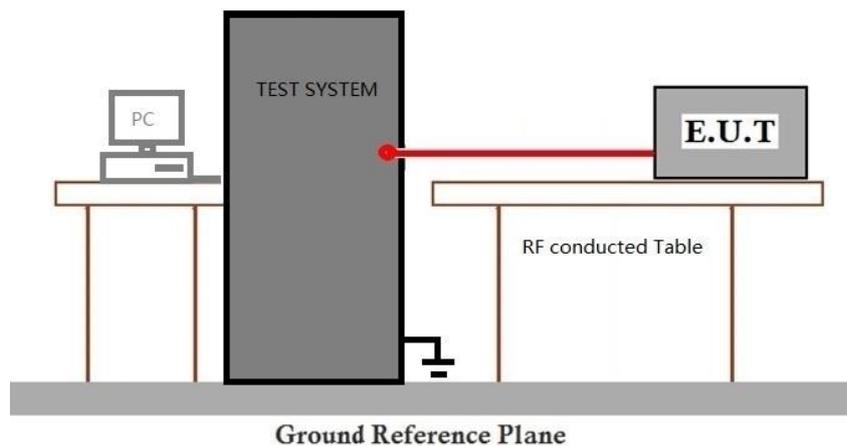
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### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	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 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, 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



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**7.3 Radiated Emissions (Below 1GHz)**

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

**7.3.1 E.U.T. Operation**

Operating Environment:

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

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	07	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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	11	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested 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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested 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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	13	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested 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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	14	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested 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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	38	TX mode (U-NII-1) (Battery 2)_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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	39	TX mode (U-NII-2A) (Battery 2)_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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	40	TX mode (U-NII-2C) (Battery 2)_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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	41	TX mode (U-NII-3) (Battery 2)_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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	42	Charge + TX mode (U-NII-1) (Battery 2)_Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	43	Charge + TX mode (U-NII-2A) (Battery 2)_Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation



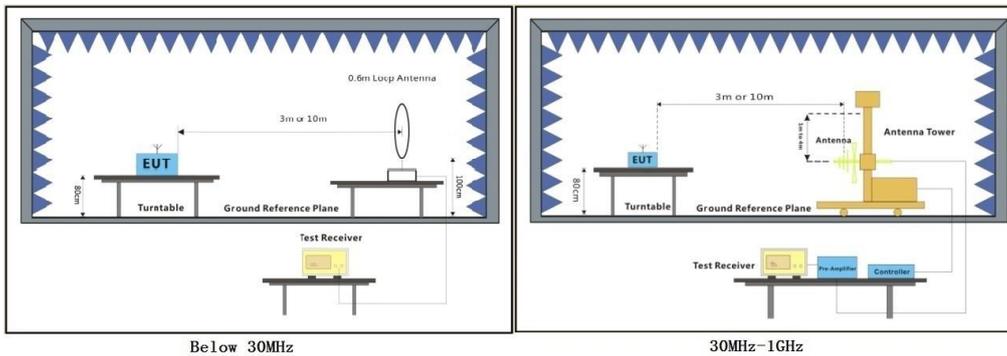
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		type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	44	Charge + TX mode (U-NII-2C) (Battery 2)_Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 20/40, Only the data of worst case is recorded in the report.
Pre-scan	45	Charge + TX mode (U-NII-3) (Battery 2)_Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 20/40, Only the data of worst case is recorded in the report.

### 7.3.3 Test Setup Diagram



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### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

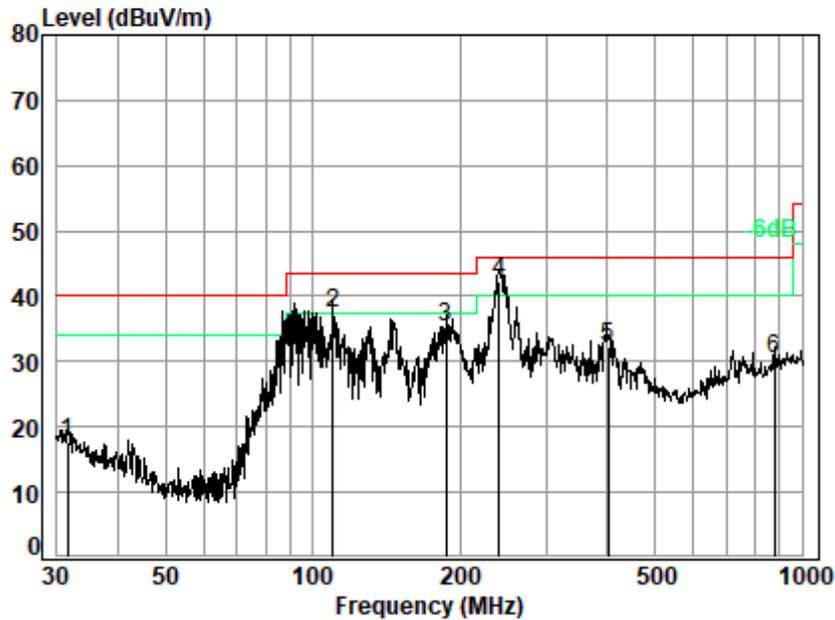
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 09; Polarity: Horizontal



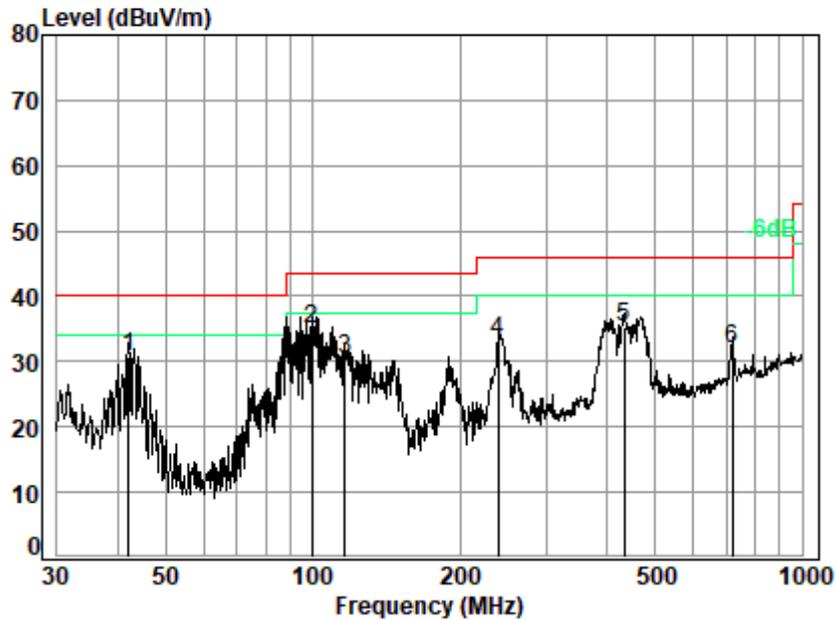
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 04163AT/04164AT  
 Mode : 09

	Ant	Cable	Preamp	Read	Limit	Over			
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.510	20.50	0.66	27.79	24.28	17.65	40.00	-22.35	QP
2	109.796	11.93	1.24	27.55	51.77	37.39	43.50	-6.11	QP
3	187.096	14.30	1.66	27.22	46.43	35.17	43.50	-8.33	QP
4 q	239.987	17.07	1.91	27.00	50.21	42.19	46.00	-3.81	QP
5	401.839	20.56	2.56	27.16	36.22	32.18	46.00	-13.82	QP
6	878.322	27.73	4.03	26.92	25.53	30.37	46.00	-15.63	QP



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Test Mode: 09; Polarity: Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 04163AT/04164AT  
 Mode : 09

	Ant	Cable	Preamp	Read	Limit	Over			
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	42.007	15.41	0.77	27.76	42.28	30.70	40.00	-9.30	QP
2	99.528	12.28	1.19	27.59	49.07	34.95	43.50	-8.55	QP
3	116.540	11.29	1.28	27.52	45.44	30.49	43.50	-13.01	QP
4	239.147	17.11	1.90	27.01	41.13	33.13	46.00	-12.87	QP
5	432.546	21.00	2.66	27.29	39.06	35.43	46.00	-10.57	QP
6	719.200	26.25	3.57	27.68	29.72	31.86	46.00	-14.14	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: KDB 789033 D02 II G

Measurement Distance: 3m

**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 22.1 °C

Humidity: 36.8 % RH

Atmospheric Pressure: 1020 mbar

**7.4.2 Test Mode Description**

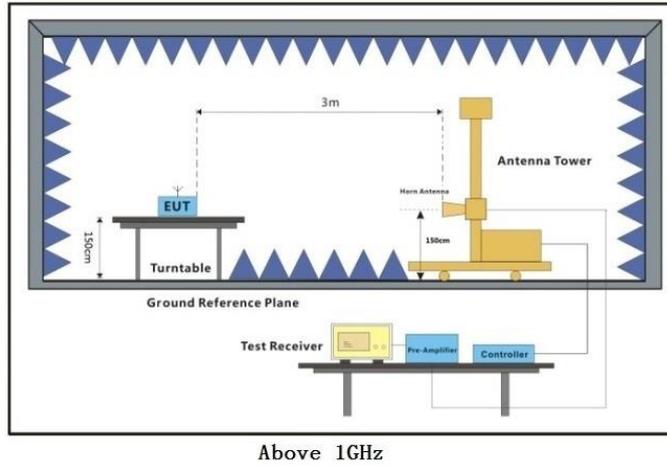
Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, 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**

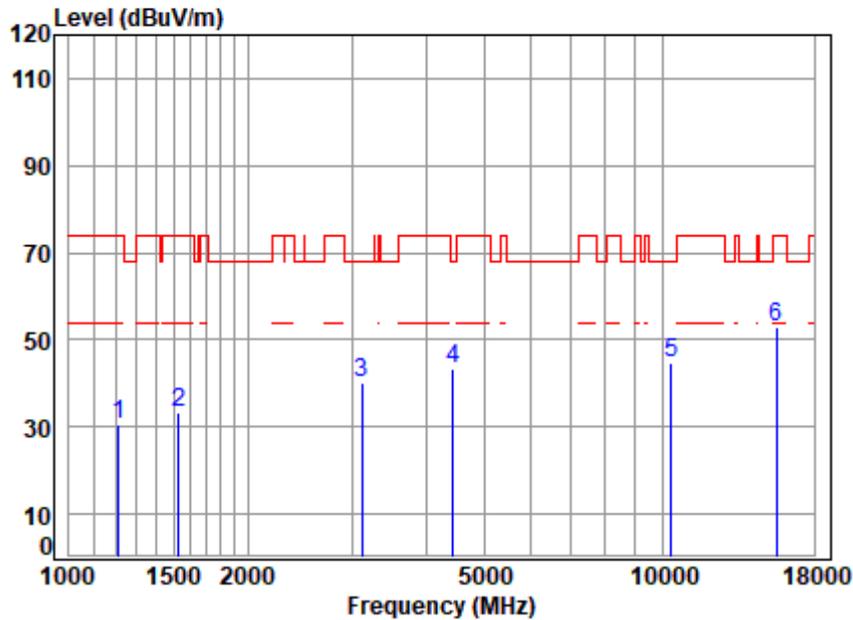
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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.



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



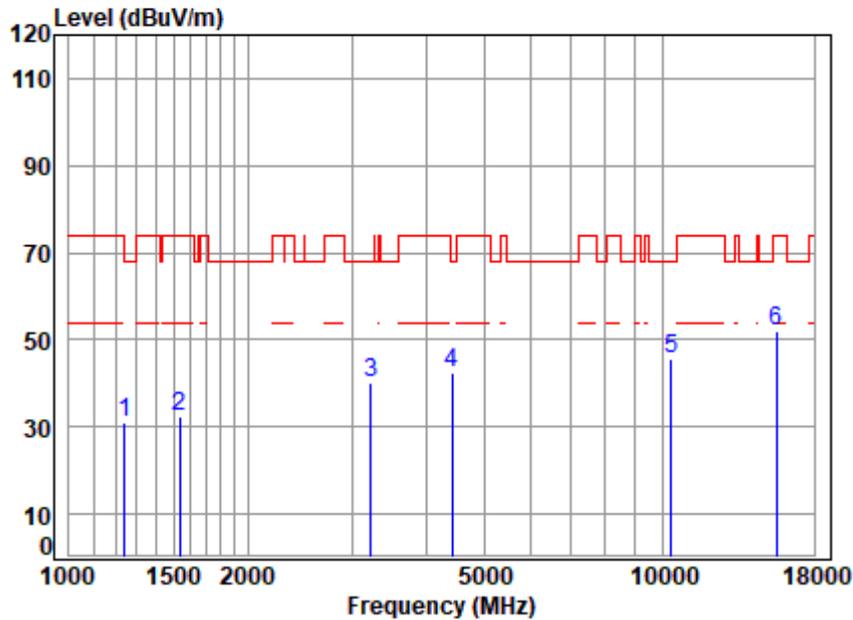
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 TX RSE  
 Note : 5G WIFI 11A

	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	1213.677	3.70	24.59	54.68	56.76	30.37	74.00	-43.63	peak
2	1529.414	4.08	26.92	54.78	57.31	33.53	74.00	-40.47	peak
3	3114.025	6.18	31.85	54.91	57.20	40.32	68.20	-27.88	peak
4	4430.628	7.17	34.43	54.25	56.02	43.37	68.20	-24.83	peak
5	10360.000	11.14	37.10	53.13	49.63	44.74	68.20	-23.46	peak
6	p15540.000	13.79	41.10	52.16	50.20	52.93	74.00	-21.07	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



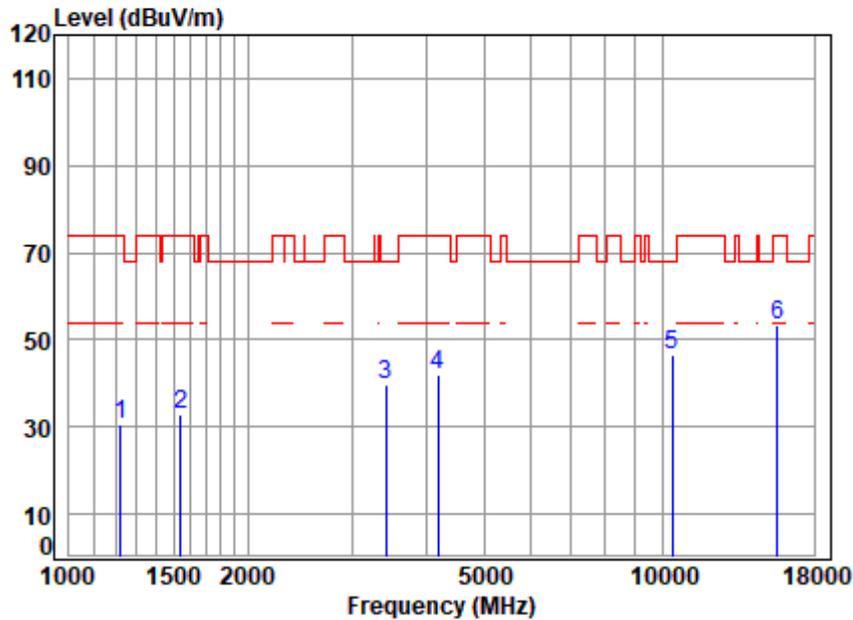
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 TX RSE  
 Note : 5G WIFI 11A

	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	1242.068	3.74	24.99	54.69	56.97	31.01	68.20	-37.19	peak
2	1538.281	4.10	26.95	54.79	56.36	32.62	74.00	-41.38	peak
3	3223.928	6.28	32.52	54.82	55.97	39.95	68.20	-28.25	peak
4	4417.841	7.16	34.59	54.26	55.03	42.52	68.20	-25.68	peak
5	10360.000	11.14	37.10	53.13	50.53	45.64	68.20	-22.56	peak
6	p15540.000	13.79	41.10	52.16	49.38	52.11	74.00	-21.89	peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



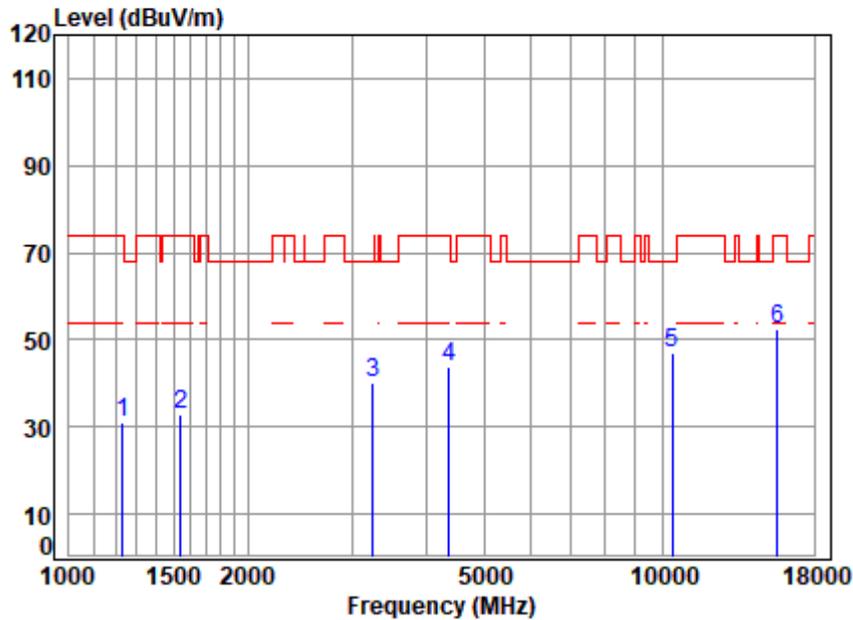
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5200 TX RSE  
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	3.71	24.69	54.69	57.06	30.77	74.00	-43.23	peak
2	1542.733	4.10	26.97	54.79	56.56	32.84	74.00	-41.16	peak
3	3415.787	6.45	32.21	54.68	55.85	39.83	68.20	-28.37	peak
4	4181.768	6.88	33.80	54.28	55.44	41.84	74.00	-32.16	peak
5	10400.000	11.20	37.10	53.12	51.23	46.41	68.20	-21.79	peak
6	p15600.000	13.86	41.10	52.11	50.59	53.44	74.00	-20.56	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5200 TX RSE  
 Note : 5G WIFI 11A

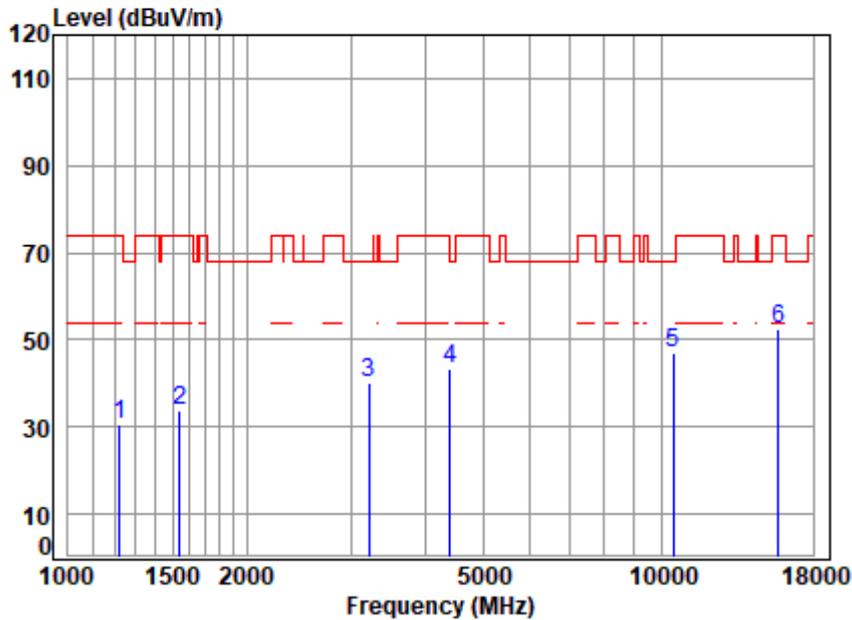
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.72	24.84	54.69	57.31	31.18	74.00	-42.82	peak
2	1542.733	4.10	26.97	54.79	56.65	32.93	74.00	-41.07	peak
3	3252.005	6.31	32.06	54.80	56.40	39.97	68.20	-28.23	peak
4	4367.058	7.10	34.54	54.26	56.63	44.01	74.00	-29.99	peak
5	10400.000	11.20	37.10	53.12	51.76	46.94	68.20	-21.26	peak
6	15600.000	13.86	41.10	52.11	49.56	52.41	74.00	-21.59	peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



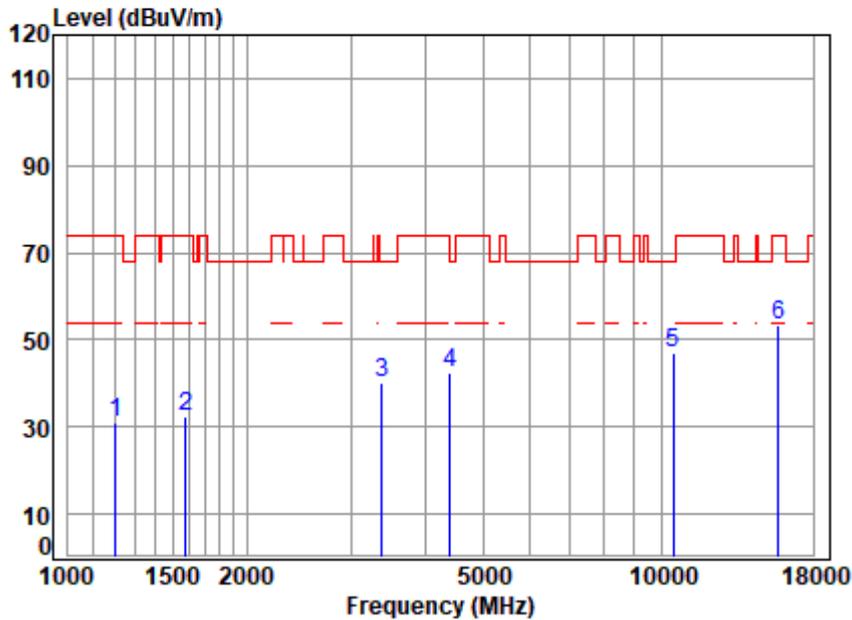
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5240 TX RSE  
 Note : 5G WIFI 11A

	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	1224.247	3.71	24.74	54.69	56.73	30.49	74.00	-43.51	peak
2	1542.733	4.10	26.97	54.79	57.30	33.58	74.00	-40.42	peak
3	3214.623	6.27	32.67	54.83	56.07	40.18	68.20	-28.02	peak
4	4405.090	7.14	34.74	54.26	55.82	43.44	68.20	-24.76	peak
5	10480.000	11.33	37.26	53.10	51.44	46.93	68.20	-21.27	peak
6	15720.000	14.01	41.22	52.02	49.20	52.41	74.00	-21.59	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5240 TX RSE  
 Note : 5G WIFI 11A

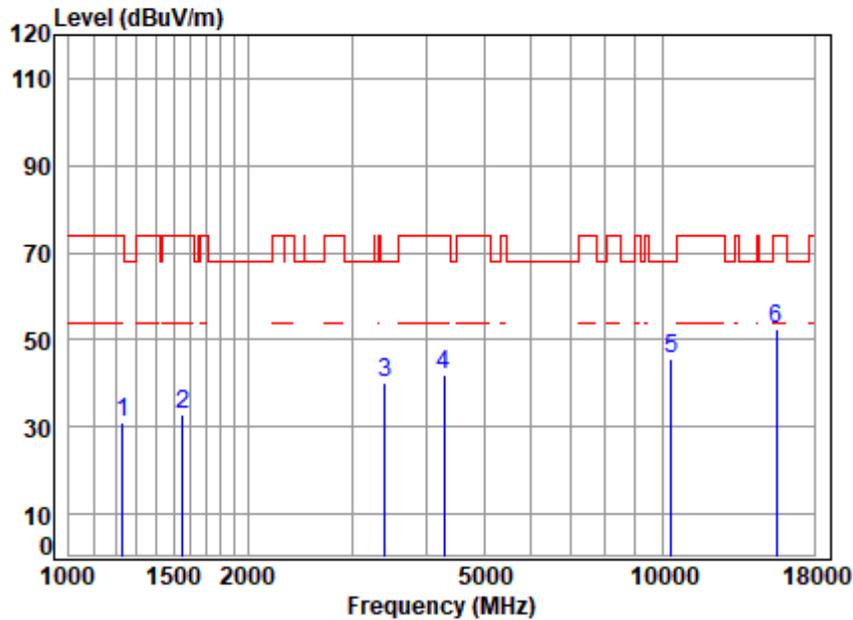
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	3.69	24.44	54.68	57.54	30.99	74.00	-43.01	peak
2	1578.822	4.16	26.88	54.80	56.21	32.45	74.00	-41.55	peak
3	3376.523	6.42	32.26	54.71	56.37	40.34	68.20	-27.86	peak
4	4405.090	7.14	34.74	54.26	54.87	42.49	68.20	-25.71	peak
5	10480.000	11.33	37.26	53.10	51.56	47.05	68.20	-21.15	peak
6	p15720.000	14.01	41.22	52.02	50.10	53.31	74.00	-20.69	peak



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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: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



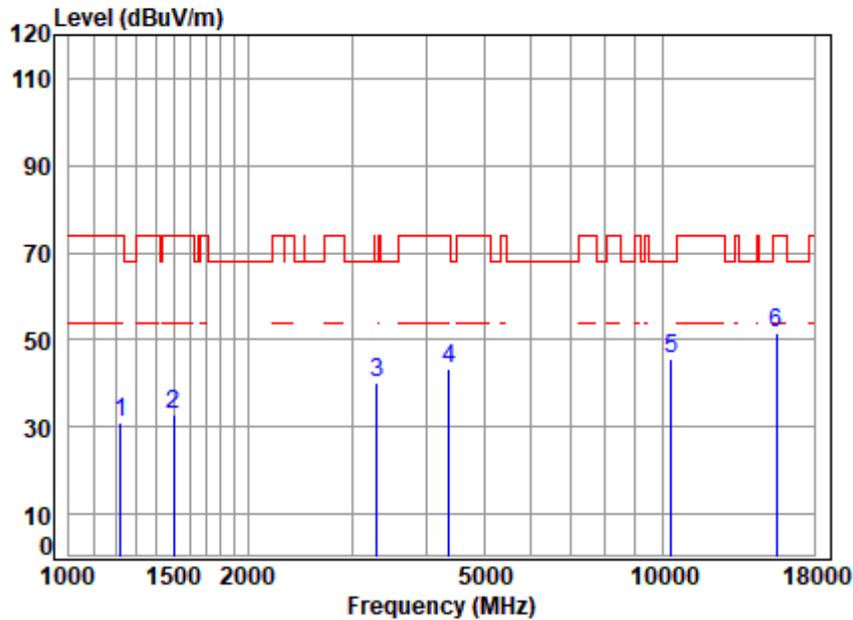
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 TX RSE  
 Note : 5G WIFI 11N20

	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	1231.345	3.72	24.84	54.69	57.34	31.21	74.00	-42.79	peak
2	1556.169	4.12	26.98	54.79	56.59	32.90	74.00	-41.10	peak
3	3405.929	6.44	32.33	54.69	56.02	40.10	68.20	-28.10	peak
4	4279.589	6.99	33.92	54.27	55.25	41.89	74.00	-32.11	peak
5	10360.000	11.14	37.10	53.13	50.30	45.41	68.20	-22.79	peak
6	p15540.000	13.79	41.10	52.16	49.85	52.58	74.00	-21.42	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



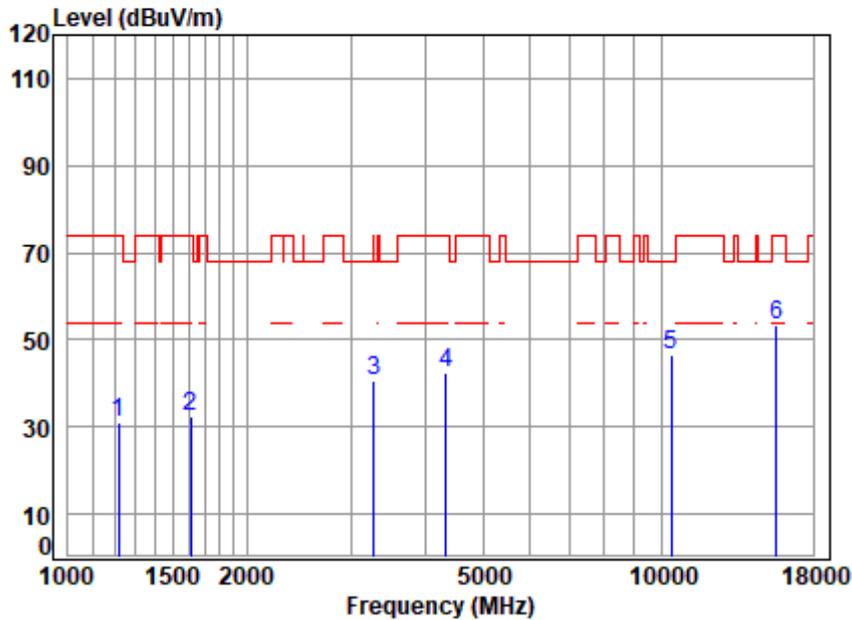
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 TX RSE  
 Note : 5G WIFI 11N20

	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	1220.714	3.71	24.69	54.69	57.47	31.18	74.00	-42.82 peak
2	1498.781	4.04	26.77	54.78	56.83	32.86	74.00	-41.14 peak
3	3308.894	6.36	31.36	54.76	57.22	40.18	68.20	-28.02 peak
4	4367.058	7.10	34.54	54.26	55.74	43.12	74.00	-30.88 peak
5	10360.000	11.14	37.10	53.13	50.72	45.83	68.20	-22.37 peak
6	p15540.000	13.79	41.10	52.16	48.91	51.64	74.00	-22.36 peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



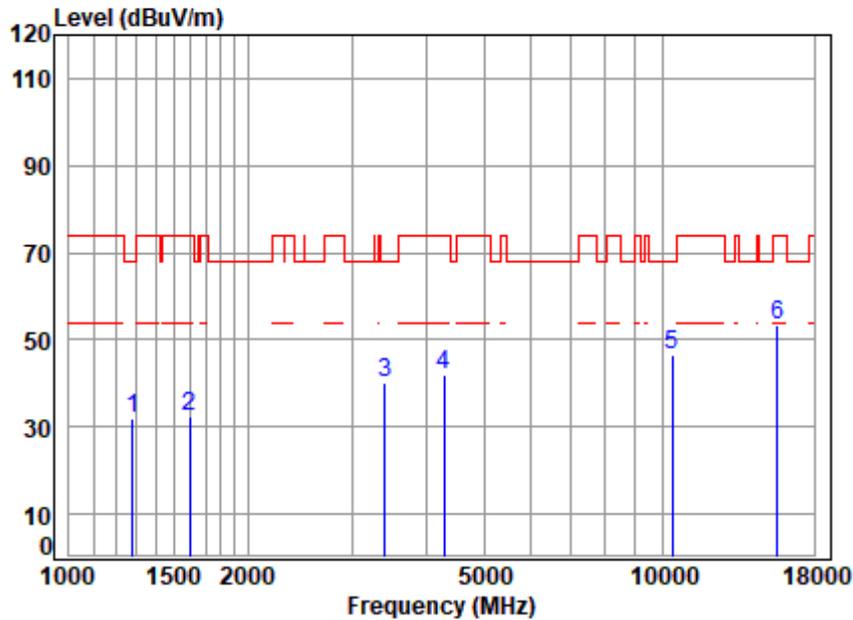
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5200 TX RSE  
 Note : 5G WIFI 11N20

	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	1217.190	3.71	24.64	54.69	57.45	31.11	74.00	-42.89	peak
2	1611.091	4.20	26.69	54.81	56.44	32.52	74.00	-41.48	peak
3	3270.858	6.32	31.72	54.79	57.17	40.42	68.20	-27.78	peak
4	4329.354	7.05	34.23	54.26	55.46	42.48	74.00	-31.52	peak
5	10400.000	11.20	37.10	53.12	51.42	46.60	68.20	-21.60	peak
6	p15600.000	13.86	41.10	52.11	50.34	53.19	74.00	-20.81	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



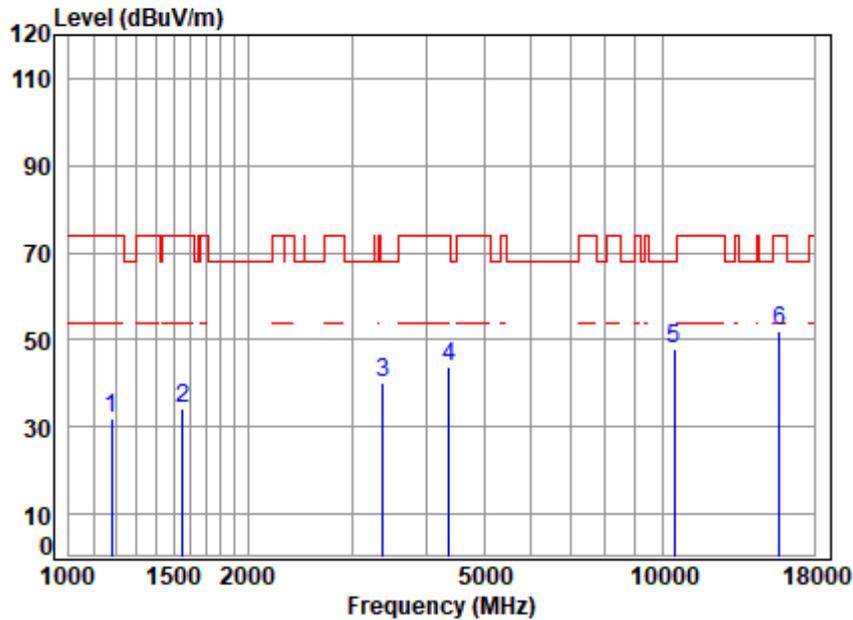
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5200 TX RSE  
 Note : 5G WIFI 11N20

	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	1278.492	3.78	24.93	54.71	57.74	31.74	68.20	-36.46	peak
2	1597.181	4.18	26.81	54.80	56.08	32.27	74.00	-41.73	peak
3	3405.929	6.44	32.33	54.69	55.93	40.01	68.20	-28.19	peak
4	4279.589	6.99	33.92	54.27	55.51	42.15	74.00	-31.85	peak
5	10400.000	11.20	37.10	53.12	51.32	46.50	68.20	-21.70	peak
6	p15600.000	13.86	41.10	52.11	50.68	53.53	74.00	-20.47	peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



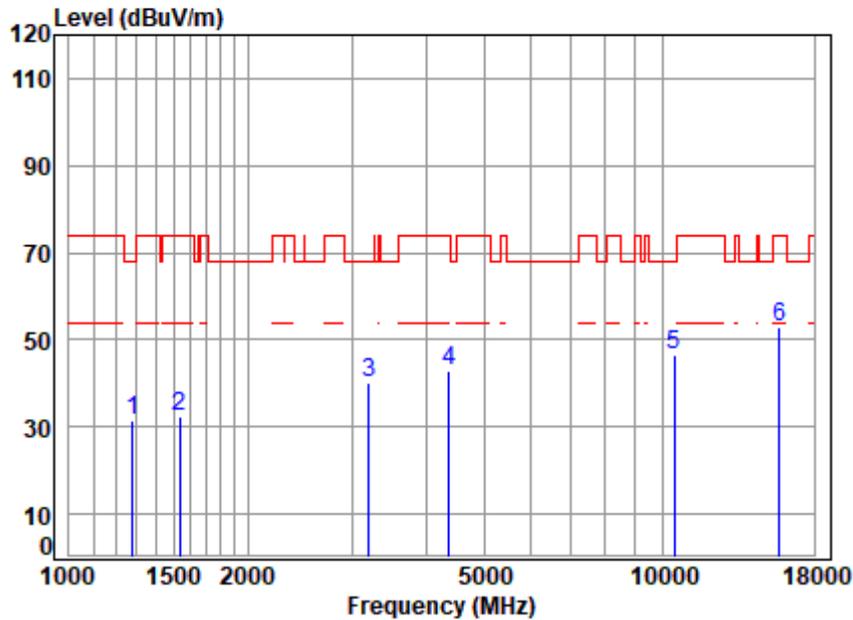
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5240 TX RSE  
 Note : 5G WIFI 11N20

	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	1179.100	3.65	24.19	54.67	58.78	31.95	74.00	-42.05	peak
2	1551.677	4.12	26.99	54.79	57.76	34.08	74.00	-39.92	peak
3	3376.523	6.42	32.26	54.71	56.11	40.08	68.20	-28.12	peak
4	4367.058	7.10	34.54	54.26	56.22	43.60	74.00	-30.40	peak
5	10480.000	11.33	37.26	53.10	52.40	47.89	68.20	-20.31	peak
6	15720.000	14.01	41.22	52.02	48.63	51.84	74.00	-22.16	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5240 TX RSE  
 Note : 5G WIFI 11N20

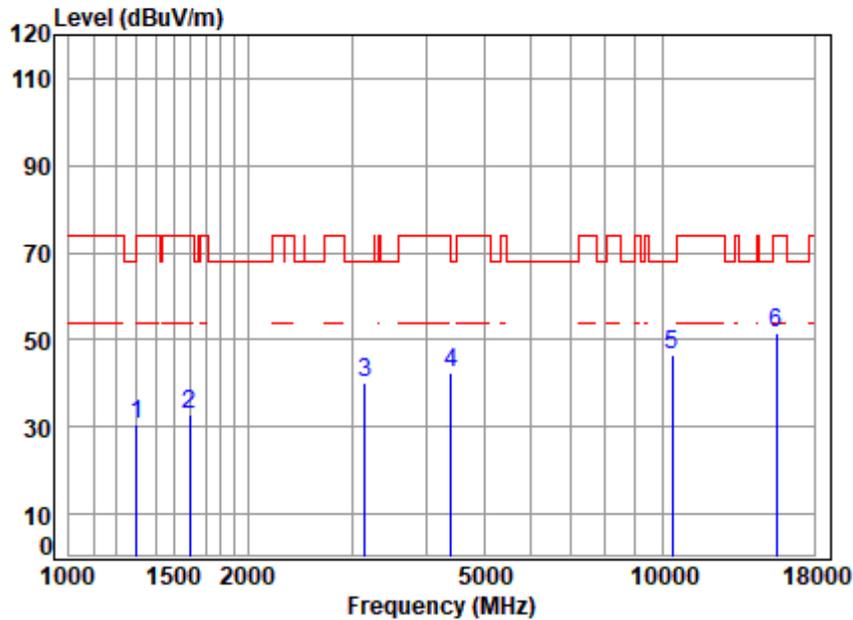
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.79	24.91	54.71	57.57	31.56	68.20	-36.64	peak
2	1533.841	4.09	26.94	54.79	56.15	32.39	74.00	-41.61	peak
3	3196.094	6.25	32.87	54.85	55.84	40.11	68.20	-28.09	peak
4	4367.058	7.10	34.54	54.26	55.51	42.89	74.00	-31.11	peak
5	10480.000	11.33	37.26	53.10	51.20	46.69	68.20	-21.51	peak
6	p15720.000	14.01	41.22	52.02	49.54	52.75	74.00	-21.25	peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



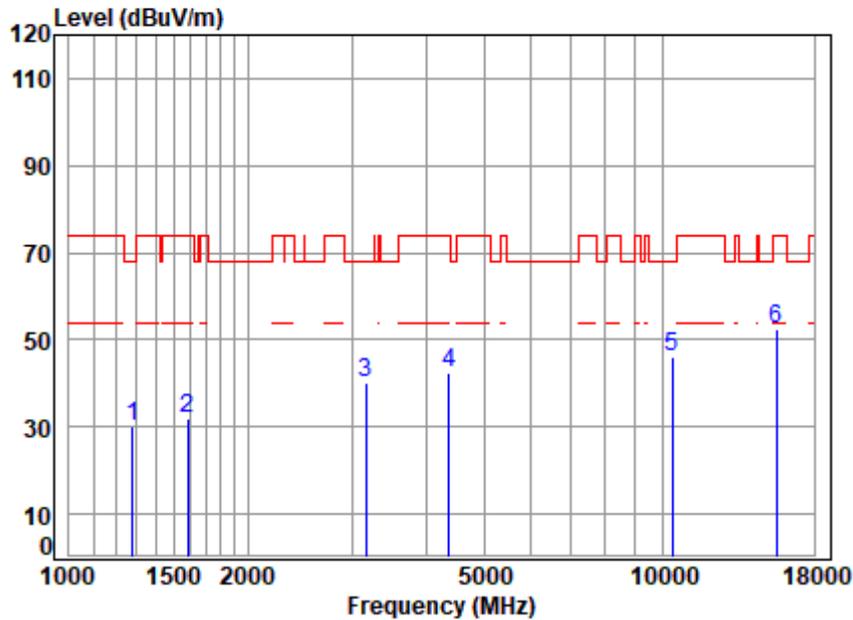
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5190 TX RSE  
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.81	24.79	54.71	56.74	30.63	74.00	-43.37	peak
2	1597.181	4.18	26.81	54.80	56.64	32.83	74.00	-41.17	peak
3	3150.237	6.21	32.50	54.88	56.11	39.94	68.20	-28.26	peak
4	4405.090	7.14	34.74	54.26	54.67	42.29	68.20	-25.91	peak
5	10380.000	11.17	37.10	53.12	51.50	46.65	68.20	-21.55	peak
6	15570.000	13.83	41.10	52.14	48.78	51.57	74.00	-22.43	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



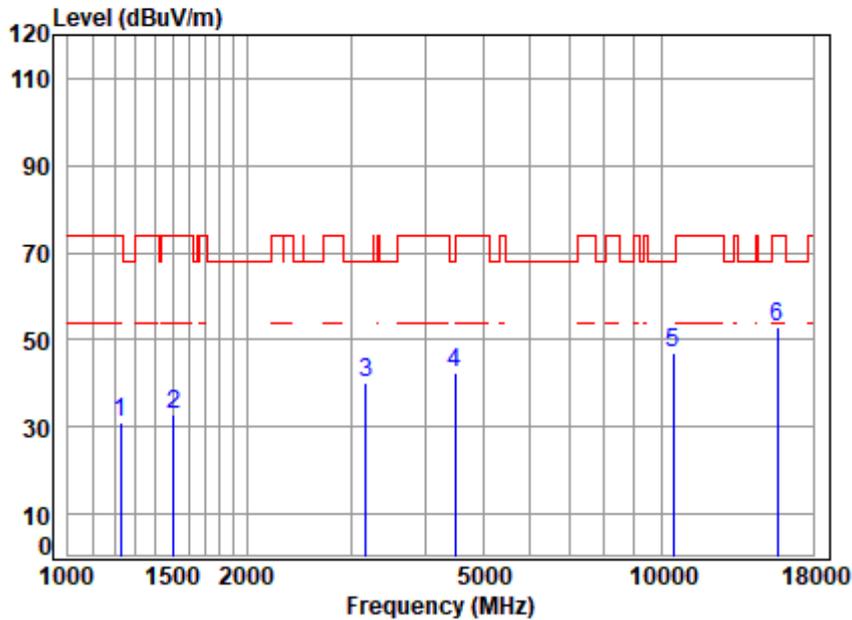
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5190 TX RSE  
 Note : 5G WIFI 11N40

	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	1282.193	3.79	24.91	54.71	56.21	30.20	68.20	-38.00	peak
2	1587.975	4.17	26.85	54.80	55.79	32.01	74.00	-41.99	peak
3	3159.355	6.22	32.57	54.87	56.40	40.32	68.20	-27.88	peak
4	4367.058	7.10	34.54	54.26	55.17	42.55	74.00	-31.45	peak
5	10380.000	11.17	37.10	53.12	50.83	45.98	68.20	-22.22	peak
6	p15570.000	13.83	41.10	52.14	49.64	52.43	74.00	-21.57	peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



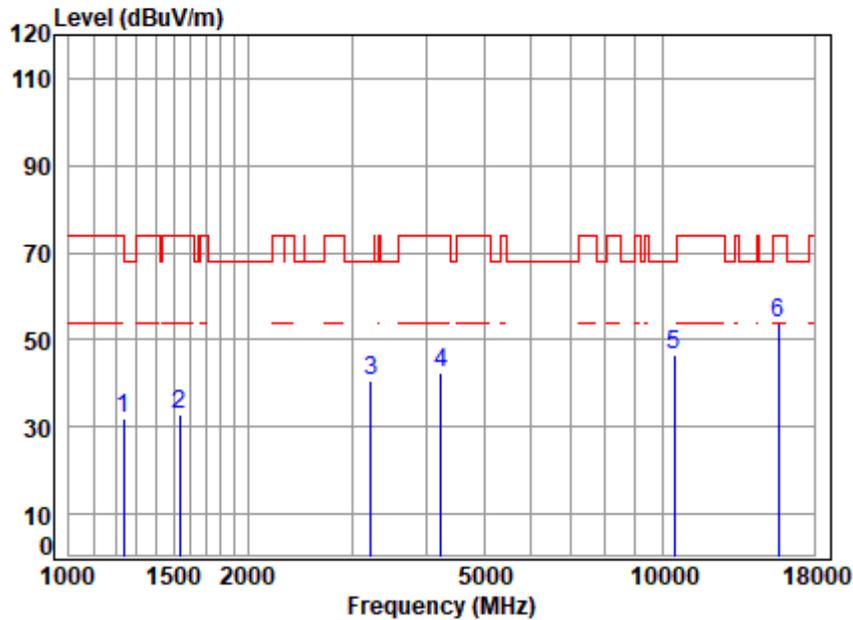
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5230 TX RSE  
 Note : 5G WIFI 11N40

	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	1227.791	3.72	24.79	54.69	57.40	31.22	74.00	-42.78	peak
2	1507.470	4.05	26.83	54.78	56.80	32.90	74.00	-41.10	peak
3	3177.672	6.24	32.72	54.86	56.15	40.25	68.20	-27.95	peak
4	4482.150	7.23	33.81	54.25	55.70	42.49	68.20	-25.71	peak
5	10460.000	11.30	37.22	53.11	51.62	47.03	68.20	-21.17	peak
6	15690.000	13.97	41.19	52.04	49.62	52.74	74.00	-21.26	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



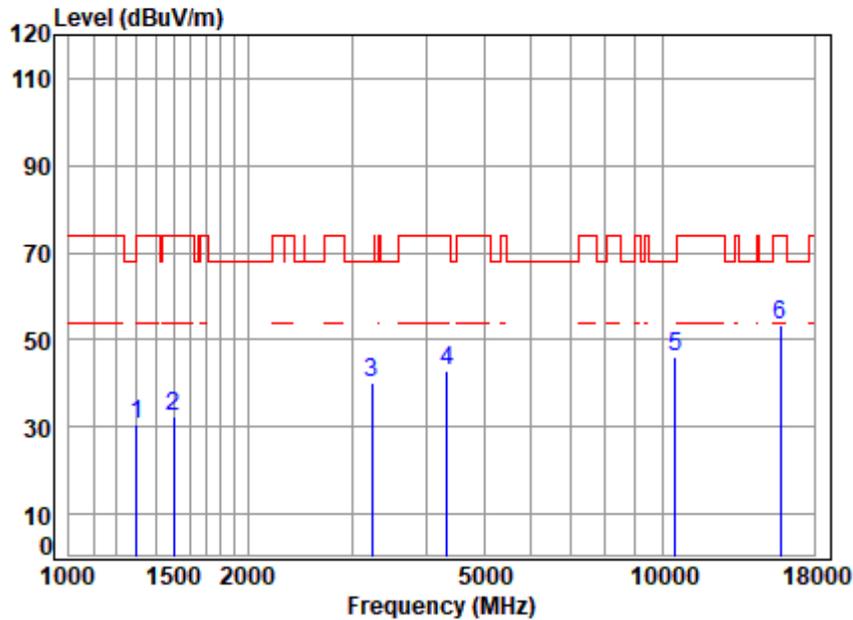
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5230 TX RSE  
 Note : 5G WIFI 11N40

	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	1234.909	3.73	24.89	54.69	57.86	31.79	74.00	-42.21	peak
2	1538.281	4.10	26.95	54.79	56.38	32.64	74.00	-41.36	peak
3	3223.928	6.28	32.52	54.82	56.65	40.63	68.20	-27.57	peak
4	4230.396	6.94	33.80	54.27	56.14	42.61	74.00	-31.39	peak
5	10460.000	11.30	37.22	53.11	51.04	46.45	68.20	-21.75	peak
6	p15690.000	13.97	41.19	52.04	50.56	53.68	74.00	-20.32	peak



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



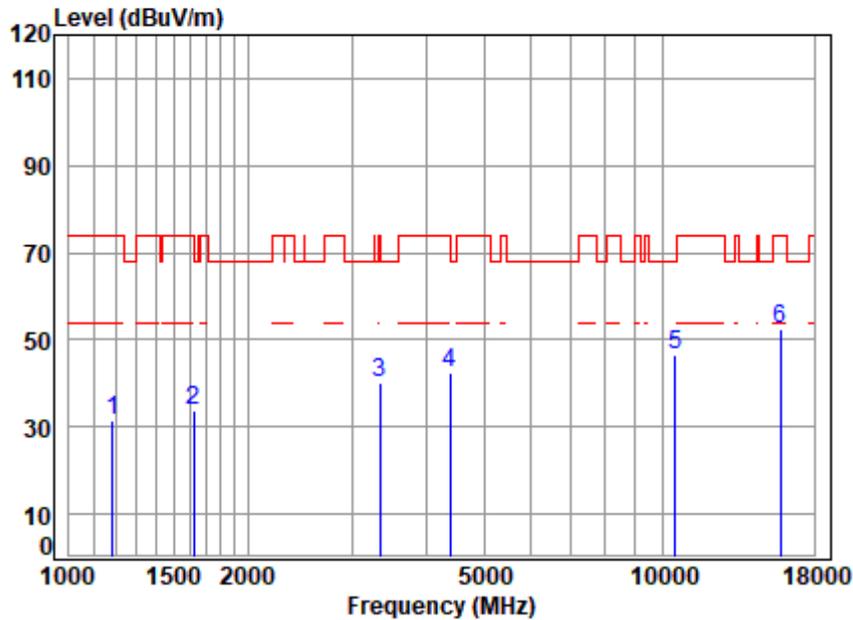
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5260 TX RSE  
 Note : 5G WIFI 11A

	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	1300.858	3.81	24.79	54.71	56.73	30.62	74.00	-43.38	peak
2	1498.781	4.04	26.77	54.78	56.33	32.36	74.00	-41.64	peak
3	3233.260	6.29	32.37	54.82	56.18	40.02	68.20	-28.18	peak
4	4341.886	7.07	34.34	54.26	55.72	42.87	74.00	-31.13	peak
5	10520.000	11.37	37.30	53.09	50.68	46.26	68.20	-21.94	peak
6	p15780.000	14.08	41.28	51.97	50.20	53.59	74.00	-20.41	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5260 TX RSE  
 Note : 5G WIFI 11A

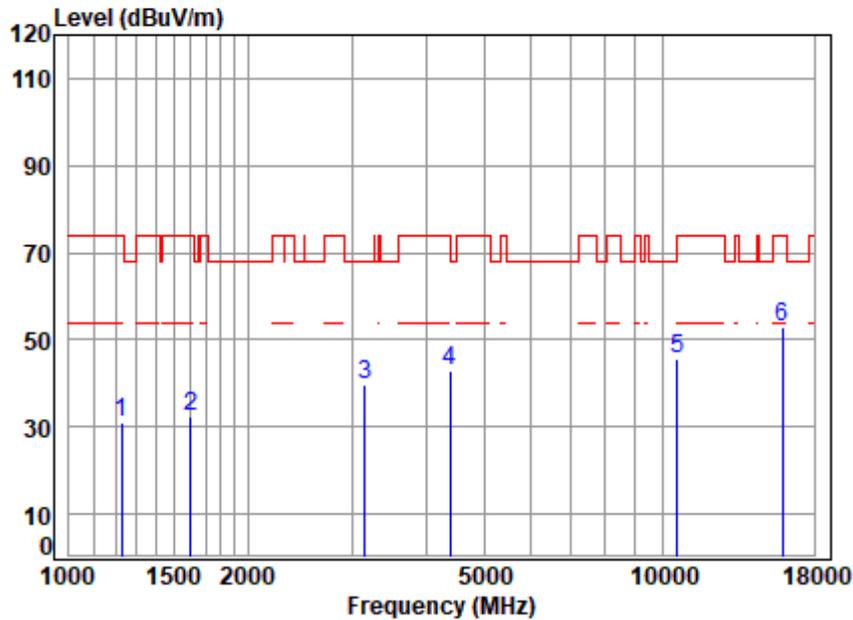
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	3.66	24.23	54.67	58.05	31.27	74.00	-42.73	peak
2	1620.431	4.21	26.60	54.81	57.61	33.61	74.00	-40.39	peak
3	3347.371	6.39	32.05	54.73	56.25	39.96	74.00	-34.04	peak
4	4379.699	7.11	34.64	54.26	54.78	42.27	74.00	-31.73	peak
5	10520.000	11.37	37.30	53.09	51.17	46.75	68.20	-21.45	peak
6	p15780.000	14.08	41.28	51.97	49.16	52.55	74.00	-21.45	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5300 TX RSE  
 Note : 5G WIFI 11A

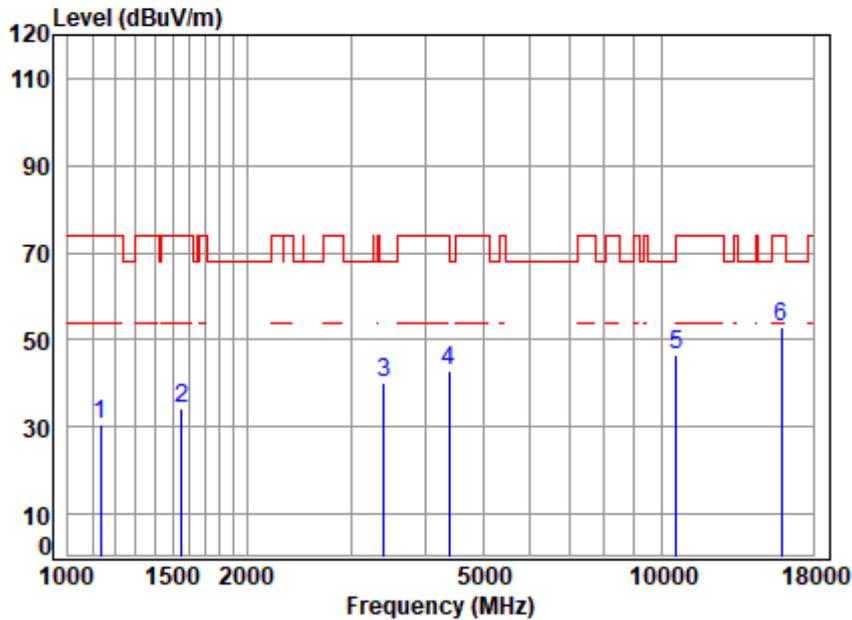
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.72	24.79	54.69	57.27	31.09	74.00	-42.91	peak
2	1606.441	4.19	26.74	54.81	56.39	32.51	74.00	-41.49	peak
3	3150.237	6.21	32.50	54.88	55.84	39.67	68.20	-28.53	peak
4	4379.699	7.11	34.64	54.26	55.17	42.66	74.00	-31.34	peak
5	10600.000	11.43	37.30	53.08	49.98	45.63	68.20	-22.57	peak
6	p15900.000	14.23	41.40	51.88	49.07	52.82	74.00	-21.18	peak



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



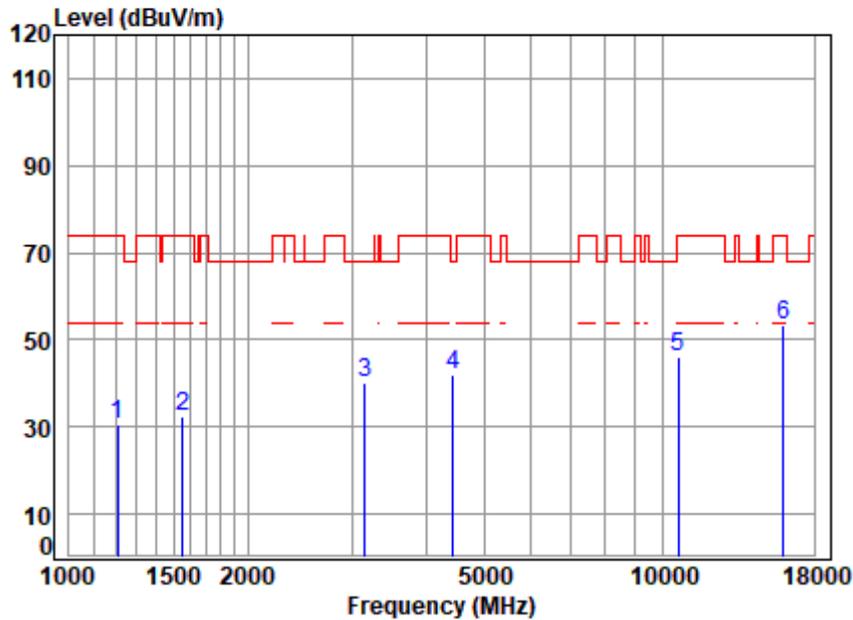
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5300 TX RSE  
 Note : 5G WIFI 11A

	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	1135.617	3.59	23.84	54.66	58.02	30.79	74.00	-43.21	peak
2	1556.169	4.12	26.98	54.79	57.82	34.13	74.00	-39.87	peak
3	3405.929	6.44	32.33	54.69	55.97	40.05	68.20	-28.15	peak
4	4379.699	7.11	34.64	54.26	55.24	42.73	74.00	-31.27	peak
5	10600.000	11.43	37.30	53.08	50.77	46.42	68.20	-21.78	peak
6	p15900.000	14.23	41.40	51.88	49.28	53.03	74.00	-20.97	peak



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



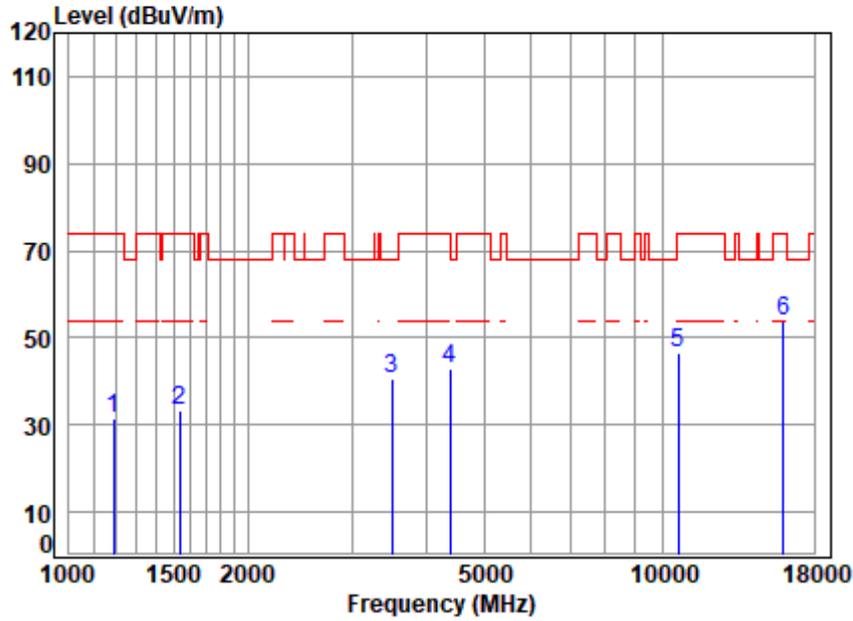
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 TX RSE  
 Note : 5G WIFI 11A

	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	1206.682	3.69	24.49	54.68	57.00	30.50	74.00	-43.50	peak
2	1556.169	4.12	26.98	54.79	56.28	32.59	74.00	-41.41	peak
3	3150.237	6.21	32.50	54.88	56.21	40.04	68.20	-28.16	peak
4	4443.453	7.19	34.28	54.25	54.83	42.05	68.20	-26.15	peak
5	10640.000	11.45	37.22	53.07	50.61	46.21	74.00	-27.79	peak
6	p15960.000	14.30	41.52	51.83	49.47	53.46	74.00	-20.54	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 TX RSE  
 Note : 5G WIFI 11A

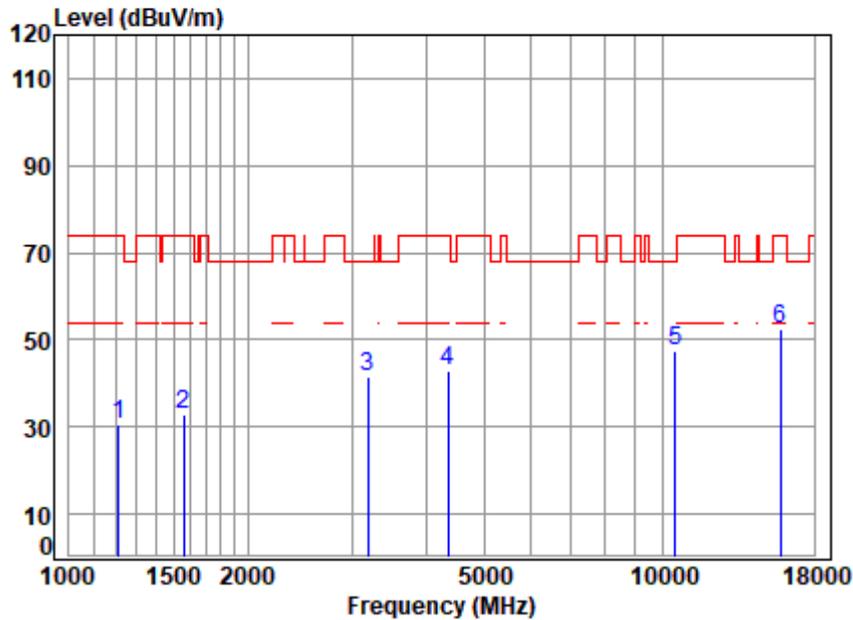
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	3.67	24.29	54.68	58.06	31.34	74.00	-42.66	peak
2	1533.841	4.09	26.94	54.79	57.14	33.38	74.00	-40.62	peak
3	3495.691	6.52	31.62	54.63	56.89	40.40	68.20	-27.80	peak
4	4379.699	7.11	34.64	54.26	55.48	42.97	74.00	-31.03	peak
5	10640.000	11.45	37.22	53.07	51.09	46.69	74.00	-27.31	peak
6	p15960.000	14.30	41.52	51.83	49.76	53.75	74.00	-20.25	peak



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



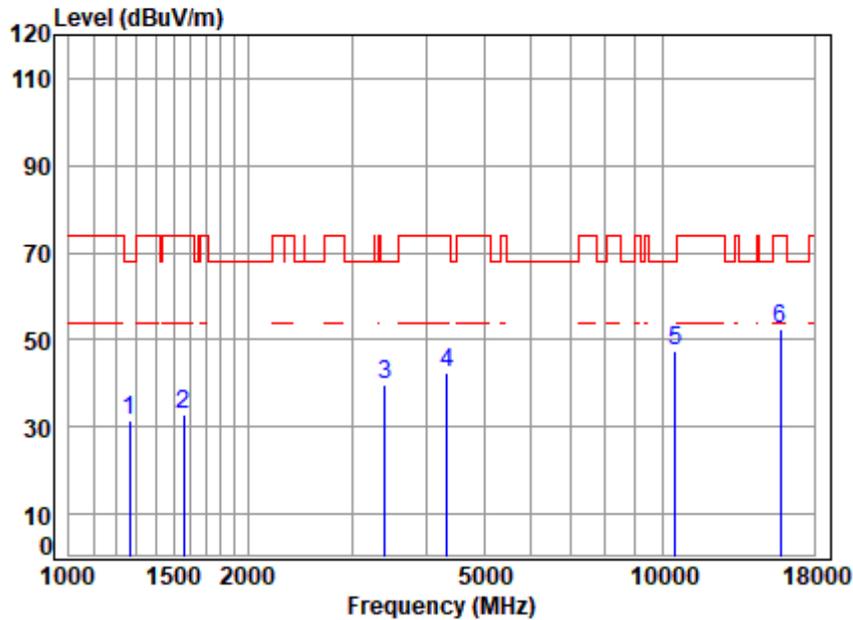
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5260 TX RSE  
 Note : 5G WIFI 11N20

	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	1213.677	3.70	24.59	54.68	56.98	30.59	74.00	-43.41	peak
2	1560.673	4.13	26.96	54.79	56.69	32.99	74.00	-41.01	peak
3	3186.869	6.25	32.79	54.85	57.30	41.49	68.20	-26.71	peak
4	4354.454	7.08	34.44	54.26	55.59	42.85	74.00	-31.15	peak
5	10520.000	11.37	37.30	53.09	51.81	47.39	68.20	-20.81	peak
6	15780.000	14.08	41.28	51.97	48.95	52.34	74.00	-21.66	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5260 TX RSE  
 Note : 5G WIFI 11N20

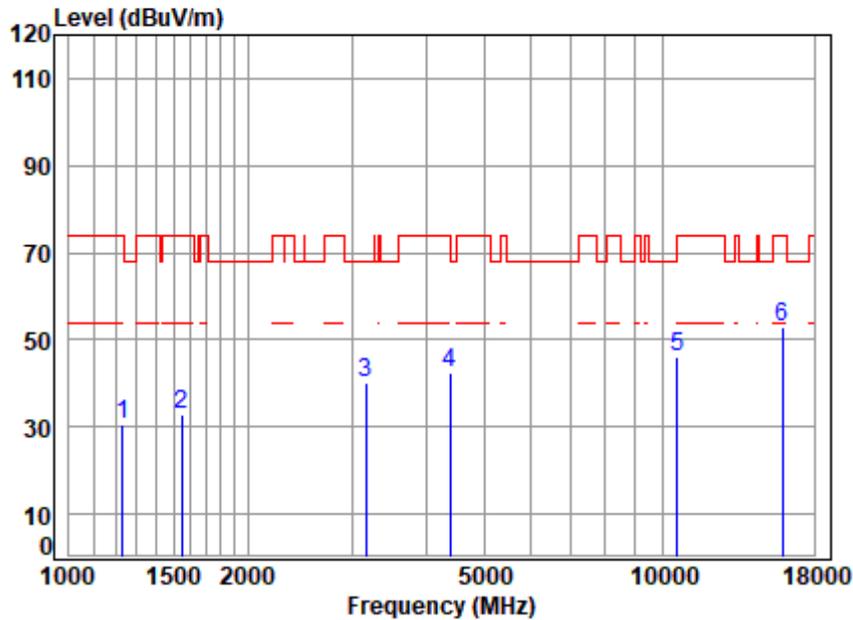
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	3.77	25.00	54.70	57.35	31.42	68.20	-36.78	peak
2	1560.673	4.13	26.96	54.79	56.77	33.07	74.00	-40.93	peak
3	3405.929	6.44	32.33	54.69	55.44	39.52	68.20	-28.68	peak
4	4329.354	7.05	34.23	54.26	55.38	42.40	74.00	-31.60	peak
5	10520.000	11.37	37.30	53.09	51.96	47.54	68.20	-20.66	peak
6	15780.000	14.08	41.28	51.97	49.27	52.66	74.00	-21.34	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5300 TX RSE  
 Note : 5G WIFI 11N20

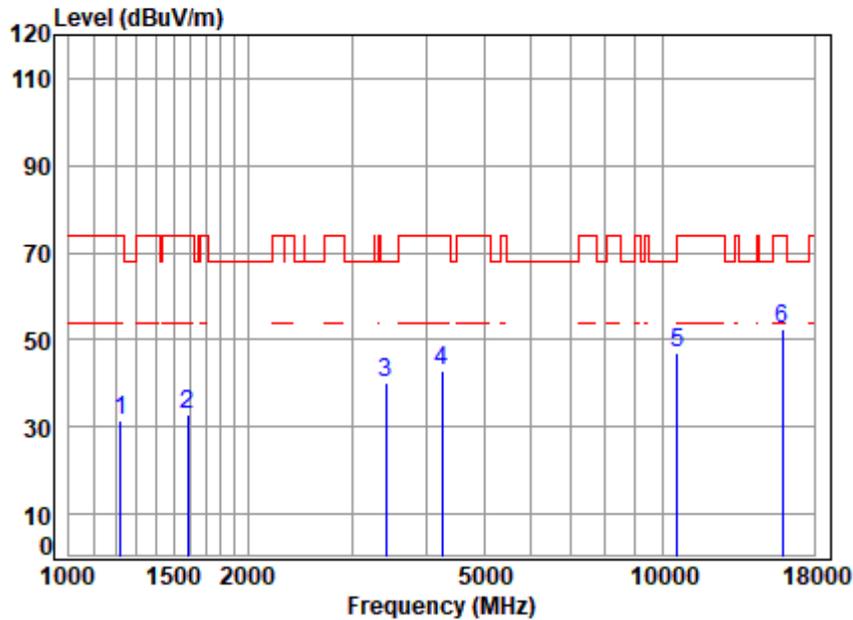
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.72	24.84	54.69	56.84	30.71	74.00	-43.29	peak
2	1547.199	4.11	26.99	54.79	56.46	32.77	74.00	-41.23	peak
3	3168.500	6.23	32.65	54.87	55.97	39.98	68.20	-28.22	peak
4	4392.376	7.13	34.74	54.26	54.64	42.25	74.00	-31.75	peak
5	10600.000	11.43	37.30	53.08	50.50	46.15	68.20	-22.05	peak
6	p15900.000	14.23	41.40	51.88	49.04	52.79	74.00	-21.21	peak



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



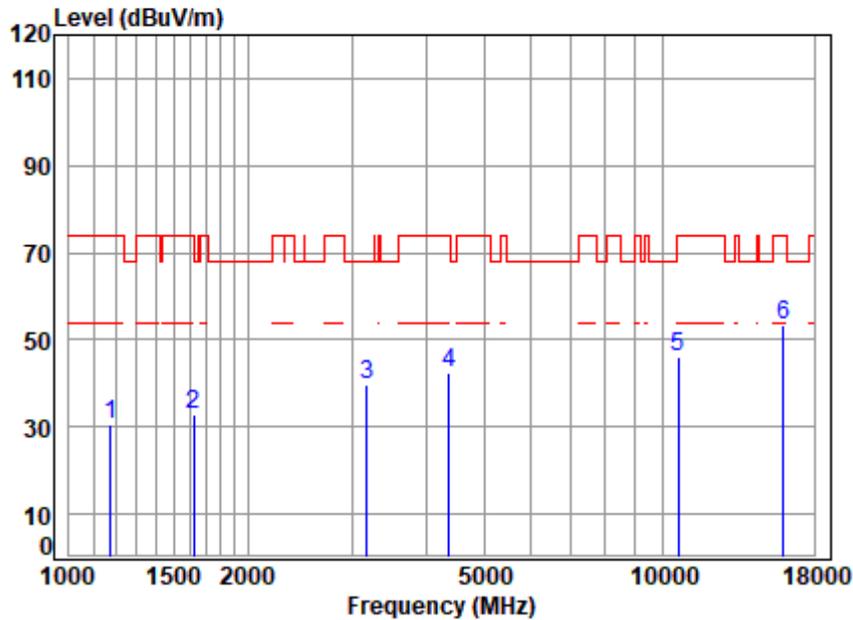
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5300 TX RSE  
 Note : 5G WIFI 11N20

	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	1224.247	3.71	24.74	54.69	57.85	31.61	74.00	-42.39	peak
2	1587.975	4.17	26.85	54.80	56.79	33.01	74.00	-40.99	peak
3	3425.675	6.46	32.09	54.68	56.17	40.04	68.20	-28.16	peak
4	4242.641	6.95	33.80	54.27	56.20	42.68	74.00	-31.32	peak
5	10600.000	11.43	37.30	53.08	51.26	46.91	68.20	-21.29	peak
6	15900.000	14.23	41.40	51.88	48.89	52.64	74.00	-21.36	peak



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



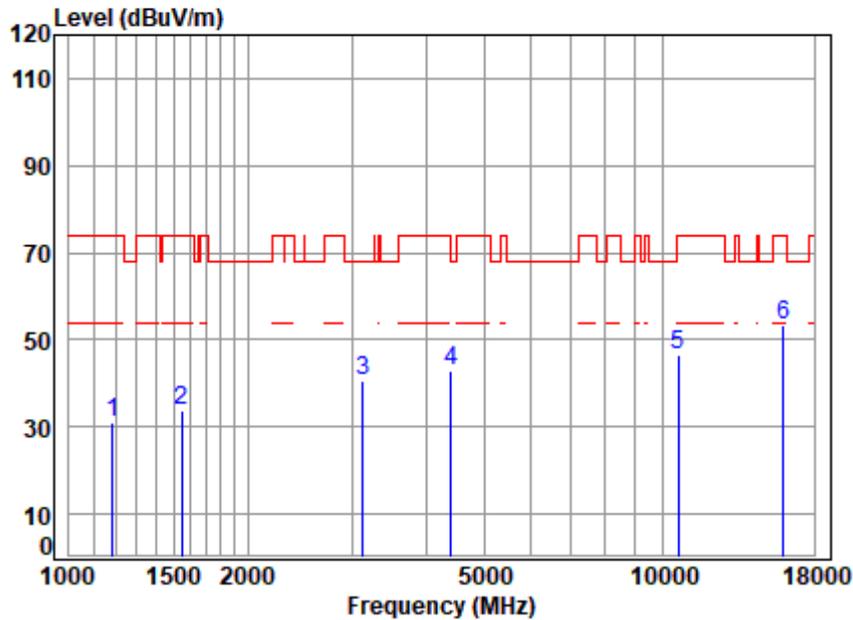
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 TX RSE  
 Note : 5G WIFI 11N20

	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	1175.697	3.65	24.16	54.67	57.54	30.68	74.00	-43.32	peak
2	1620.431	4.21	26.60	54.81	57.01	33.01	74.00	-40.99	peak
3	3177.672	6.24	32.72	54.86	55.76	39.86	68.20	-28.34	peak
4	4367.058	7.10	34.54	54.26	55.07	42.45	74.00	-31.55	peak
5	10640.000	11.45	37.22	53.07	50.26	45.86	74.00	-28.14	peak
6	p15960.000	14.30	41.52	51.83	49.24	53.23	74.00	-20.77	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 TX RSE  
 Note : 5G WIFI 11N20

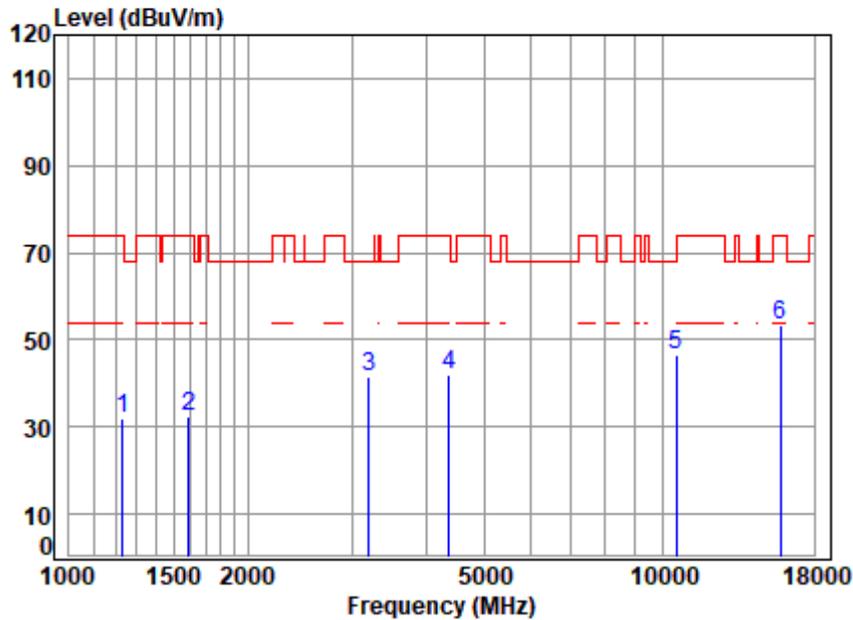
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	3.66	24.23	54.67	57.84	31.06	74.00	-42.94	peak
2	1547.199	4.11	26.99	54.79	57.49	33.80	74.00	-40.20	peak
3	3132.079	6.20	32.18	54.90	57.03	40.51	68.20	-27.69	peak
4	4405.090	7.14	34.74	54.26	55.15	42.77	68.20	-25.43	peak
5	10640.000	11.45	37.22	53.07	50.92	46.52	74.00	-27.48	peak
6	p15960.000	14.30	41.52	51.83	49.18	53.17	74.00	-20.83	peak



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



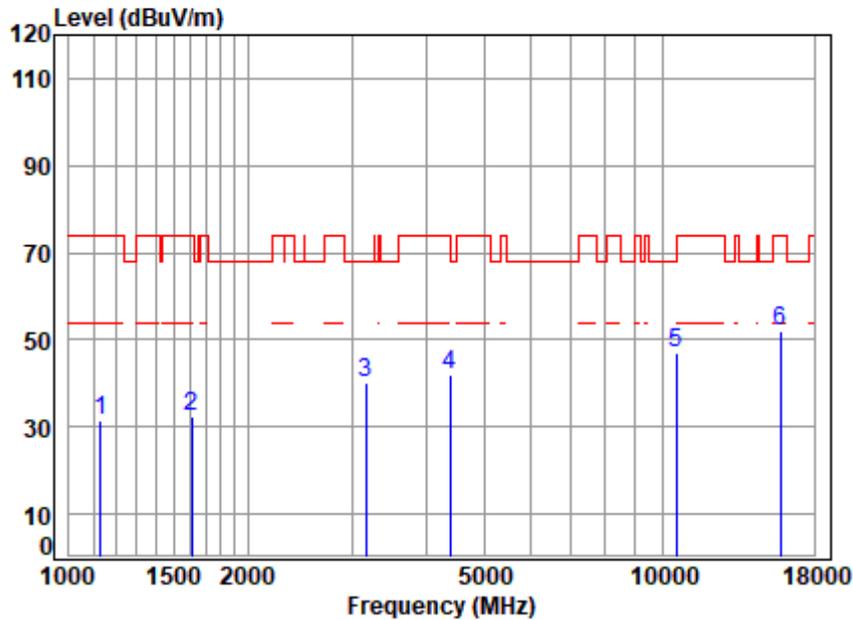
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5270 TX RSE  
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1231.345	3.72	24.84	54.69	57.88	74.00	-42.25	peak
2	1592.571	4.18	26.83	54.80	56.40	74.00	-41.39	peak
3	3205.345	6.26	32.81	54.84	57.17	68.20	-26.80	peak
4	4367.058	7.10	34.54	54.26	54.80	74.00	-31.82	peak
5	10540.000	11.39	37.30	53.09	51.06	68.20	-21.54	peak
6	p15810.000	14.12	41.31	51.95	49.75	74.00	-20.77	peak



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



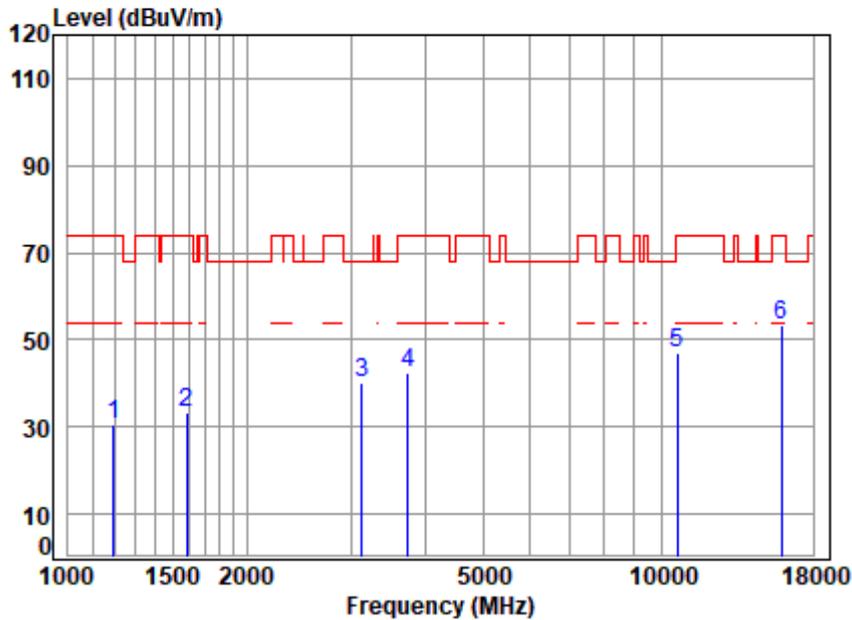
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5270 TX RSE  
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1129.072	3.58	23.82	54.65	58.79	31.54	74.00	-42.46	peak
2	1611.091	4.20	26.69	54.81	56.29	32.37	74.00	-41.63	peak
3	3168.500	6.23	32.65	54.87	56.34	40.35	68.20	-27.85	peak
4	4379.699	7.11	34.64	54.26	54.57	42.06	74.00	-31.94	peak
5	10540.000	11.39	37.30	53.09	51.47	47.07	68.20	-21.13	peak
6	15810.000	14.12	41.31	51.95	48.76	52.24	74.00	-21.76	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5310 TX RSE  
 Note : 5G WIFI 11N40

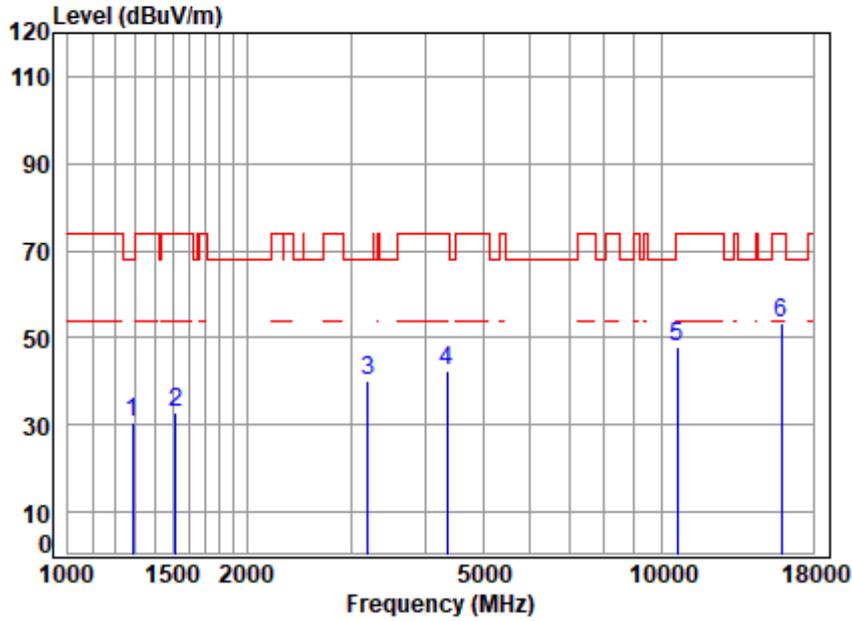
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	3.67	24.33	54.68	57.26	30.58	74.00	-43.42 peak
2	1587.975	4.17	26.85	54.80	57.20	33.42	74.00	-40.58 peak
3	3123.039	6.19	32.01	54.90	57.05	40.35	68.20	-27.85 peak
4	3746.792	6.59	32.91	54.46	57.59	42.63	74.00	-31.37 peak
5	10620.000	11.44	37.26	53.07	51.34	46.97	74.00	-27.03 peak
6	p15930.000	14.27	41.46	51.85	49.51	53.39	74.00	-20.61 peak



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



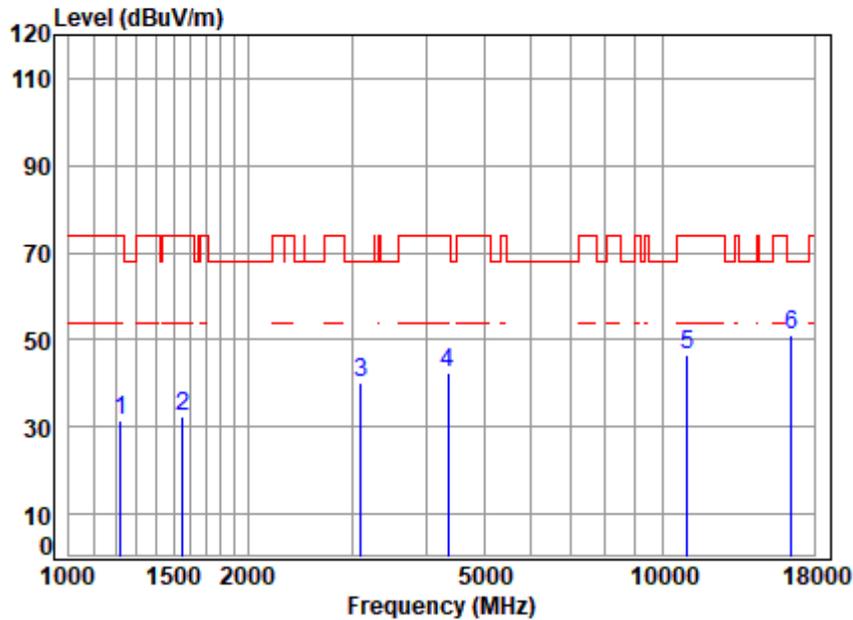
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5310 TX RSE  
 Note : 5G WIFI 11N40

	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	1285.904	3.79	24.88	54.71	56.83	30.79	68.20	-37.41	peak
2	1520.598	4.07	26.88	54.78	56.56	32.73	74.00	-41.27	peak
3	3205.345	6.26	32.81	54.84	55.78	40.01	68.20	-28.19	peak
4	4354.454	7.08	34.44	54.26	55.23	42.49	74.00	-31.51	peak
5	10620.000	11.44	37.26	53.07	52.45	48.08	74.00	-25.92	peak
6	p15930.000	14.27	41.46	51.85	49.39	53.27	74.00	-20.73	peak



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



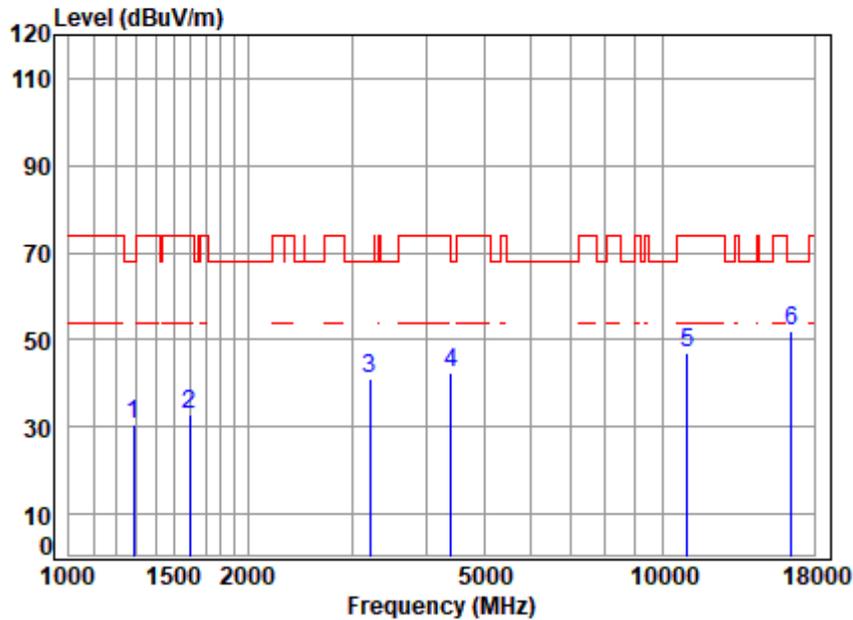
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 TX RSE  
 Note : 5G WIFI 11A

	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	1224.247	3.71	24.74	54.69	57.52	31.28	74.00	-42.72	peak
2	1551.677	4.12	26.99	54.79	56.01	32.33	74.00	-41.67	peak
3	3105.037	6.17	31.69	54.92	57.40	40.34	68.20	-27.86	peak
4	4354.454	7.08	34.44	54.26	55.40	42.66	74.00	-31.34	peak
5	11000.000	11.68	37.50	53.00	50.20	46.38	74.00	-27.62	peak
6	p16500.000	13.99	42.10	52.36	47.52	51.25	68.20	-16.95	peak



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



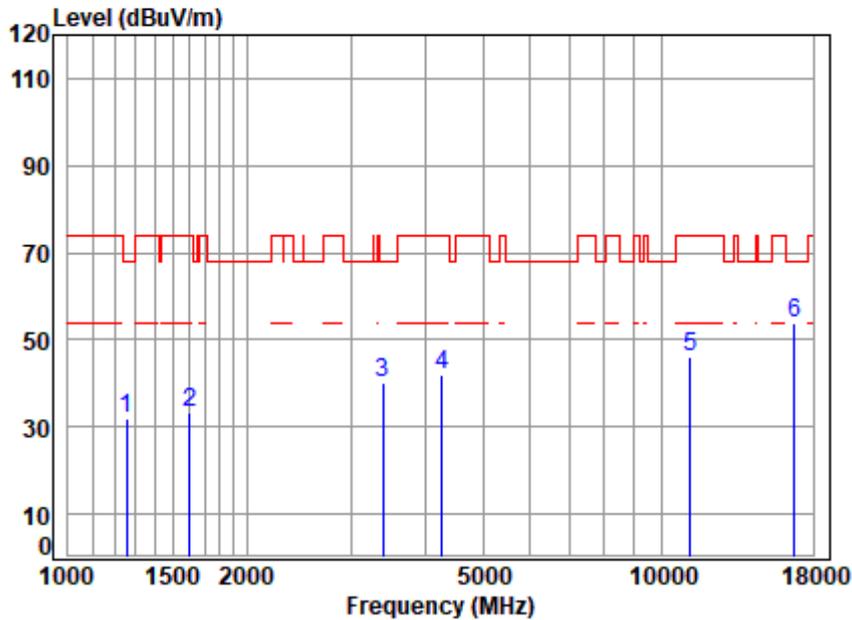
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 TX RSE  
 Note : 5G WIFI 11A

	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	1285.904	3.79	24.88	54.71	56.64	30.60	68.20	-37.60	peak
2	1597.181	4.18	26.81	54.80	56.62	32.81	74.00	-41.19	peak
3	3214.623	6.27	32.67	54.83	56.81	40.92	68.20	-27.28	peak
4	4405.090	7.14	34.74	54.26	55.04	42.66	68.20	-25.54	peak
5	11000.000	11.68	37.50	53.00	50.66	46.84	74.00	-27.16	peak
6	p16500.000	13.99	42.10	52.36	48.50	52.23	68.20	-15.97	peak



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



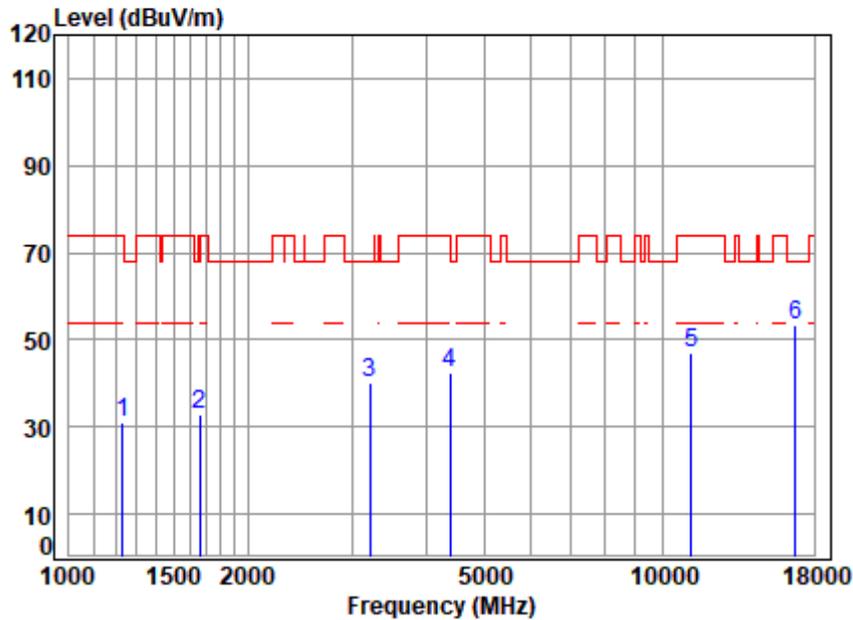
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5580 TX RSE  
 Note : 5G WIFI 11A

	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	1256.512	3.76	25.06	54.70	57.66	31.78	68.20	-36.42	peak
2	1601.804	4.19	26.78	54.80	57.00	33.17	74.00	-40.83	peak
3	3396.098	6.43	32.38	54.70	56.00	40.11	68.20	-28.09	peak
4	4267.237	6.98	33.87	54.27	55.38	41.96	74.00	-32.04	peak
5	11160.000	11.77	37.62	53.03	49.92	46.28	74.00	-27.72	peak
6	p16740.000	14.15	42.78	52.62	49.52	53.83	68.20	-14.37	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5580 TX RSE  
 Note : 5G WIFI 11A

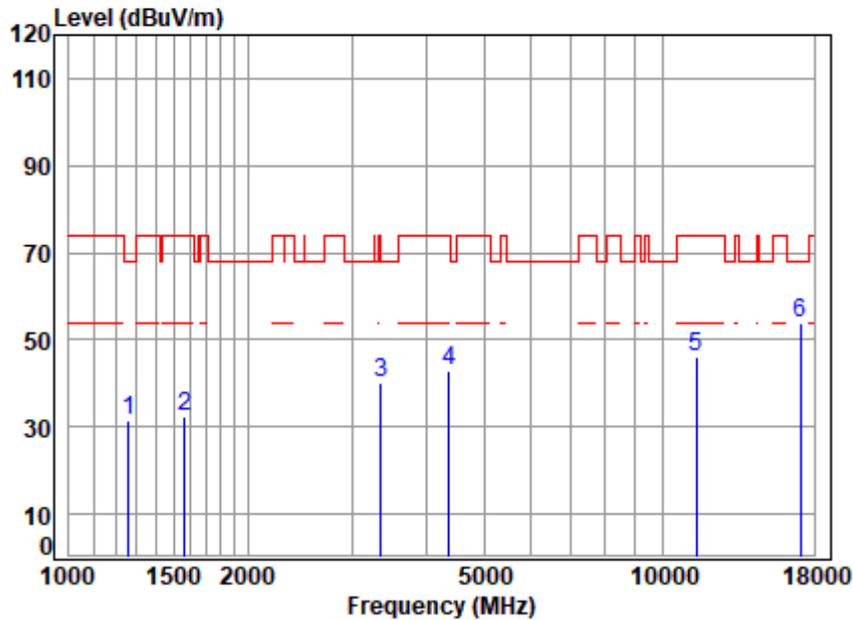
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.72	24.84	54.69	57.03	30.90	74.00	-43.10	peak
2	1658.337	4.27	26.28	54.82	57.34	33.07	68.20	-35.13	peak
3	3214.623	6.27	32.67	54.83	55.87	39.98	68.20	-28.22	peak
4	4379.699	7.11	34.64	54.26	54.89	42.38	74.00	-31.62	peak
5	11160.000	11.77	37.62	53.03	50.54	46.90	74.00	-27.10	peak
6	p16740.000	14.15	42.78	52.62	49.18	53.49	68.20	-14.71	peak



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



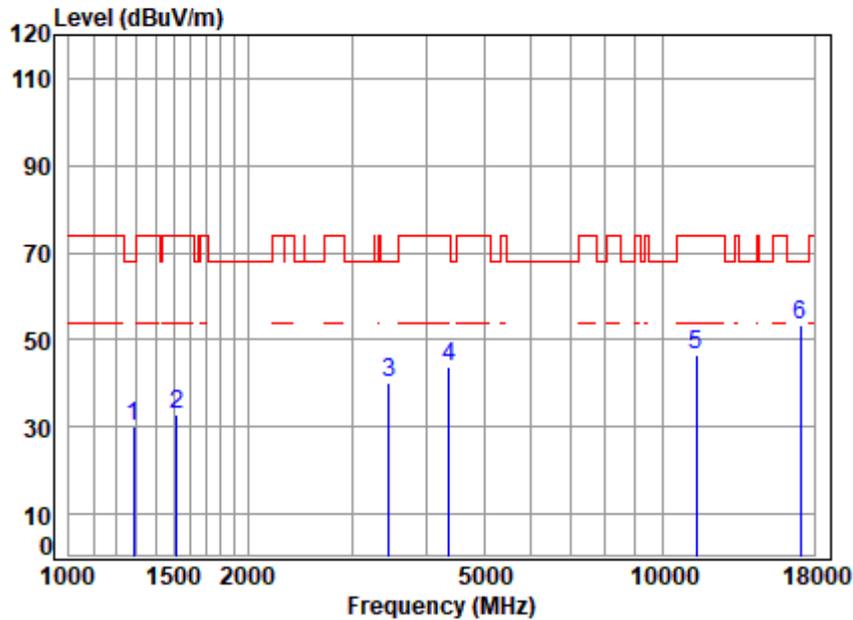
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 TX RSE  
 Note : 5G WIFI 11A

	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	1260.149	3.76	25.04	54.70	57.47	31.57	68.20	-36.63	peak
2	1565.191	4.14	26.94	54.79	56.02	32.31	74.00	-41.69	peak
3	3357.061	6.40	32.14	54.73	56.26	40.07	74.00	-33.93	peak
4	4367.058	7.10	34.54	54.26	55.72	43.10	74.00	-30.90	peak
5	11400.000	11.90	37.70	53.08	49.48	46.00	74.00	-28.00	peak
6	p17100.000	14.44	43.10	52.85	49.33	54.02	68.20	-14.18	peak



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



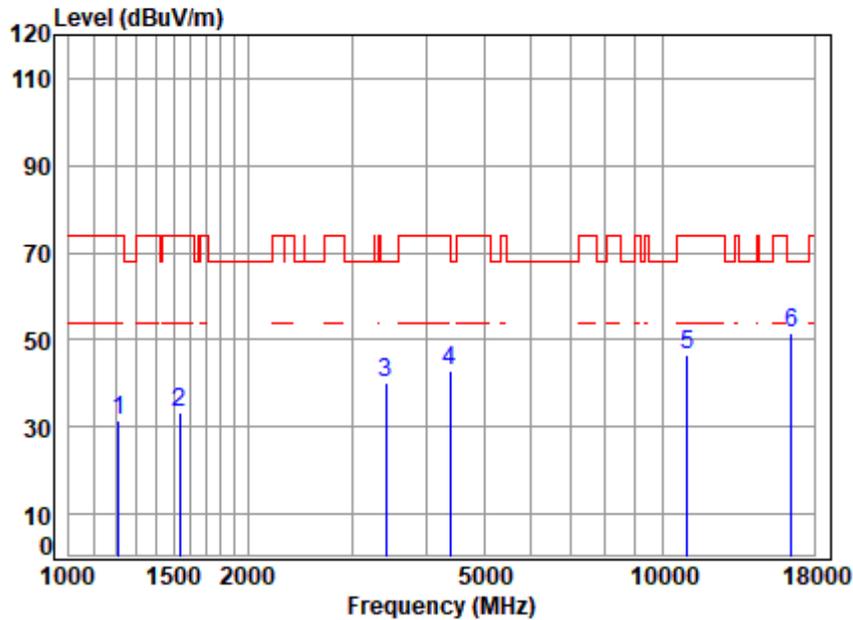
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 TX RSE  
 Note : 5G WIFI 11A

	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	1285.904	3.79	24.88	54.71	56.34	30.30	68.20	-37.90	peak
2	1520.598	4.07	26.88	54.78	56.60	32.77	74.00	-41.23	peak
3	3455.508	6.48	31.78	54.66	56.42	40.02	68.20	-28.18	peak
4	4367.058	7.10	34.54	54.26	56.45	43.83	74.00	-30.17	peak
5	11400.000	11.90	37.70	53.08	50.17	46.69	74.00	-27.31	peak
6	p17100.000	14.44	43.10	52.85	48.63	53.32	68.20	-14.88	peak



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



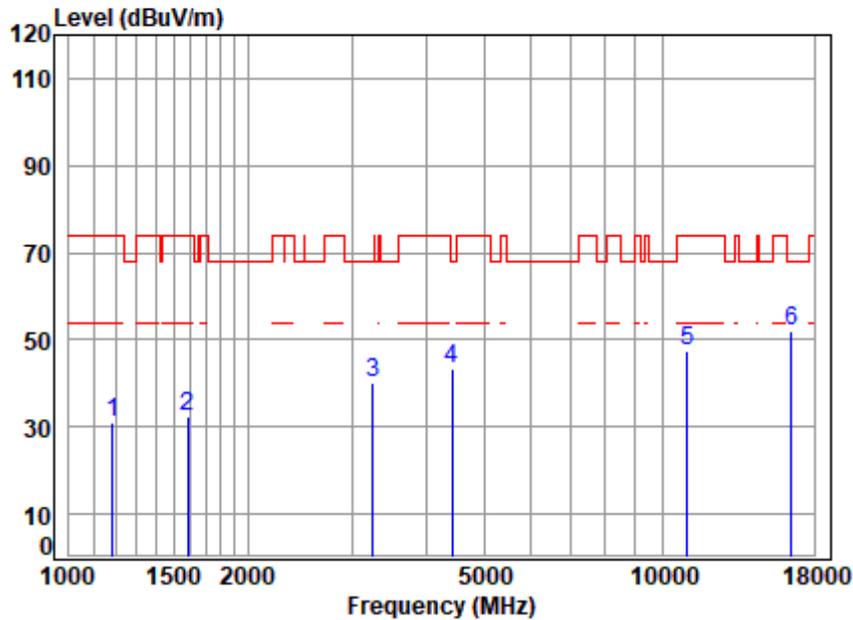
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 TX RSE  
 Note : 5G WIFI 11N20

	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	1213.677	3.70	24.59	54.68	58.04	31.65	74.00	-42.35	peak
2	1538.281	4.10	26.95	54.79	57.14	33.40	74.00	-40.60	peak
3	3415.787	6.45	32.21	54.68	56.19	40.17	68.20	-28.03	peak
4	4379.699	7.11	34.64	54.26	55.25	42.74	74.00	-31.26	peak
5	11000.000	11.68	37.50	53.00	50.57	46.75	74.00	-27.25	peak
6	p16500.000	13.99	42.10	52.36	48.06	51.79	68.20	-16.41	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 TX RSE  
 Note : 5G WIFI 11N20

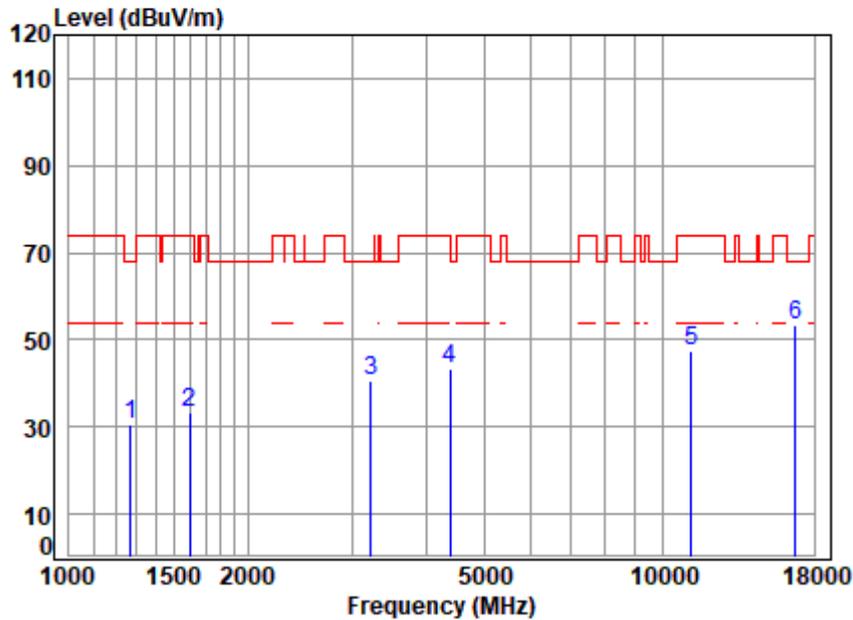
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	3.66	24.23	54.67	57.85	31.07	74.00	-42.93	peak
2	1583.392	4.16	26.87	54.80	56.39	32.62	74.00	-41.38	peak
3	3252.005	6.31	32.06	54.80	56.64	40.21	68.20	-27.99	peak
4	4417.841	7.16	34.59	54.26	55.76	43.25	68.20	-24.95	peak
5	11000.000	11.68	37.50	53.00	51.13	47.31	74.00	-26.69	peak
6	p16500.000	13.99	42.10	52.36	48.32	52.05	68.20	-16.15	peak



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



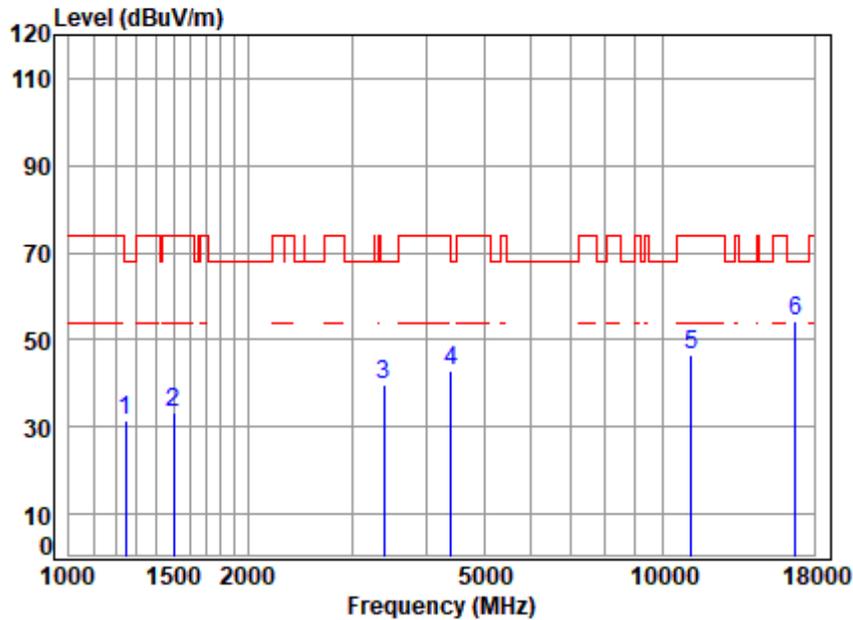
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5580 TX RSE  
 Note : 5G WIFI 11N20

	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	1271.123	3.77	24.97	54.70	56.35	30.39	68.20	-37.81	peak
2	1597.181	4.18	26.81	54.80	57.25	33.44	74.00	-40.56	peak
3	3223.928	6.28	32.52	54.82	56.60	40.58	68.20	-27.62	peak
4	4379.699	7.11	34.64	54.26	55.87	43.36	74.00	-30.64	peak
5	11160.000	11.77	37.62	53.03	50.92	47.28	74.00	-26.72	peak
6	p16740.000	14.15	42.78	52.62	49.29	53.60	68.20	-14.60	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5580 TX RSE  
 Note : 5G WIFI 11N20

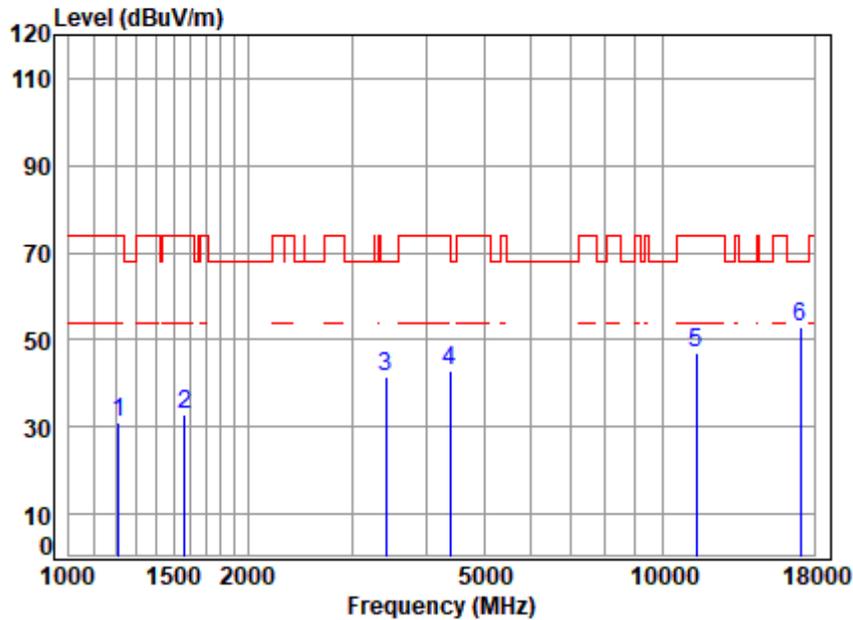
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.74	25.04	54.70	57.27	31.35	68.20	-36.85	peak
2	1498.781	4.04	26.77	54.78	57.47	33.50	74.00	-40.50	peak
3	3396.098	6.43	32.38	54.70	55.71	39.82	68.20	-28.38	peak
4	4405.090	7.14	34.74	54.26	55.37	42.99	68.20	-25.21	peak
5	11160.000	11.77	37.62	53.03	50.28	46.64	74.00	-27.36	peak
6	p16740.000	14.15	42.78	52.62	50.04	54.35	68.20	-13.85	peak



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



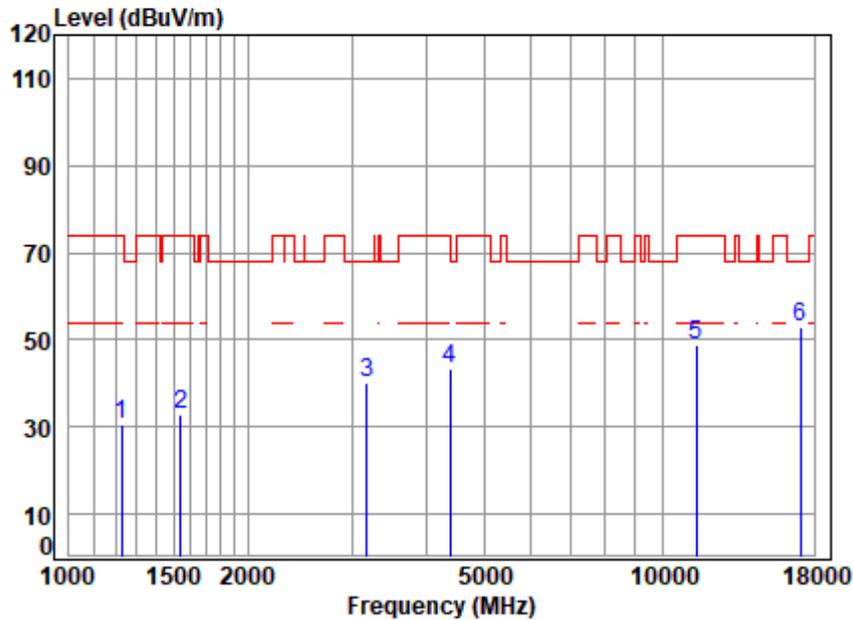
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 TX RSE  
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.677	3.70	24.59	54.68	57.35	30.96	74.00	-43.04 peak
2	1569.721	4.14	26.92	54.80	56.76	33.02	74.00	-40.98 peak
3	3415.787	6.45	32.21	54.68	57.47	41.45	68.20	-26.75 peak
4	4392.376	7.13	34.74	54.26	55.33	42.94	74.00	-31.06 peak
5	11400.000	11.90	37.70	53.08	50.65	47.17	74.00	-26.83 peak
6	p17100.000	14.44	43.10	52.85	48.40	53.09	68.20	-15.11 peak



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



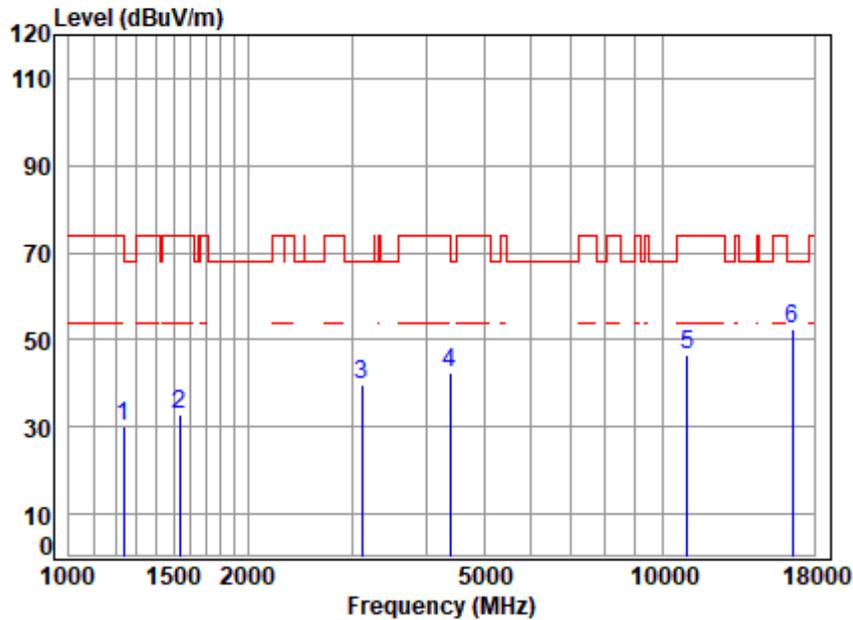
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 TX RSE  
 Note : 5G WIFI 11N20

	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	1227.791	3.72	24.79	54.69	56.97	30.79	74.00	-43.21	peak
2	1542.733	4.10	26.97	54.79	56.38	32.66	74.00	-41.34	peak
3	3177.672	6.24	32.72	54.86	56.24	40.34	68.20	-27.86	peak
4	4392.376	7.13	34.74	54.26	55.55	43.16	74.00	-30.84	peak
5	11400.000	11.90	37.70	53.08	52.53	49.05	74.00	-24.95	peak
6	p17100.000	14.44	43.10	52.85	48.12	52.81	68.20	-15.39	peak



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



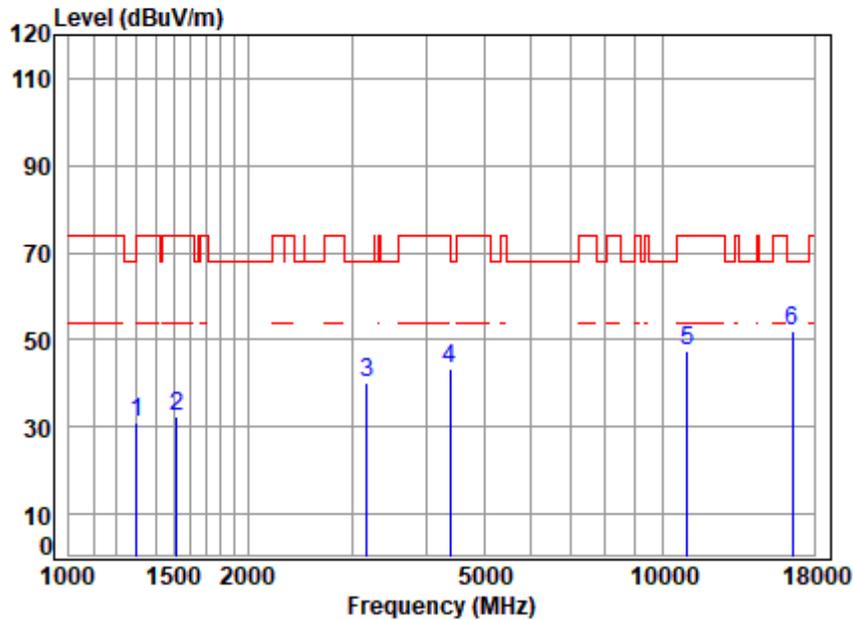
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5510 TX RSE  
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1238.483	3.73	24.94	54.69	56.24	30.22	74.00	-43.78 peak
2	1538.281	4.10	26.95	54.79	56.52	32.78	74.00	-41.22 peak
3	3114.025	6.18	31.85	54.91	56.68	39.80	68.20	-28.40 peak
4	4379.699	7.11	34.64	54.26	55.14	42.63	74.00	-31.37 peak
5	11020.000	11.69	37.50	53.00	50.21	46.40	74.00	-27.60 peak
6	p16530.000	14.01	42.16	52.39	48.76	52.54	68.20	-15.66 peak



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



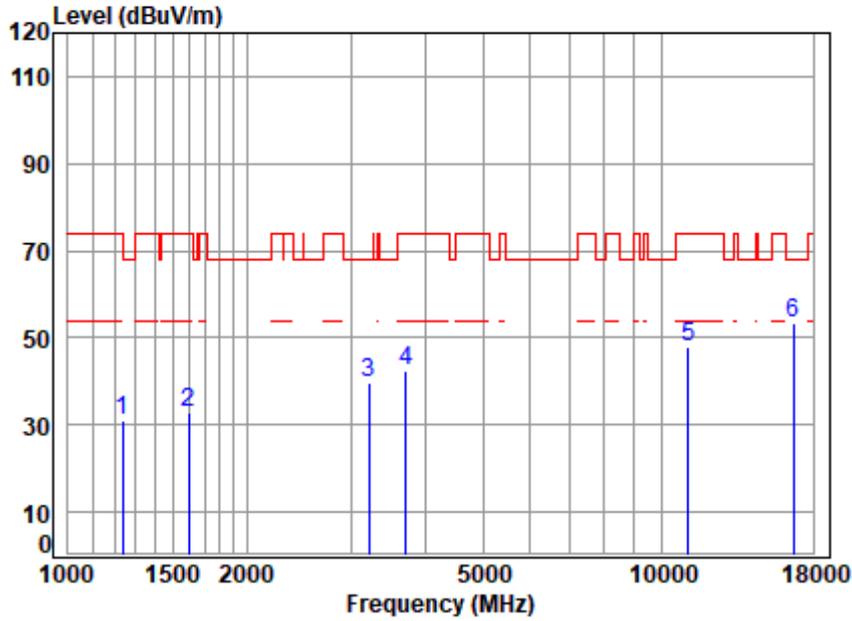
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5510 TX RSE  
 Note : 5G WIFI 11N40

	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	1300.858	3.81	24.79	54.71	57.09	30.98	74.00	-43.02	peak
2	1520.598	4.07	26.88	54.78	56.09	32.26	74.00	-41.74	peak
3	3177.672	6.24	32.72	54.86	56.03	40.13	68.20	-28.07	peak
4	4379.699	7.11	34.64	54.26	56.08	43.57	74.00	-30.43	peak
5	11020.000	11.69	37.50	53.00	51.32	47.51	74.00	-26.49	peak
6	p16530.000	14.01	42.16	52.39	48.13	51.91	68.20	-16.29	peak



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



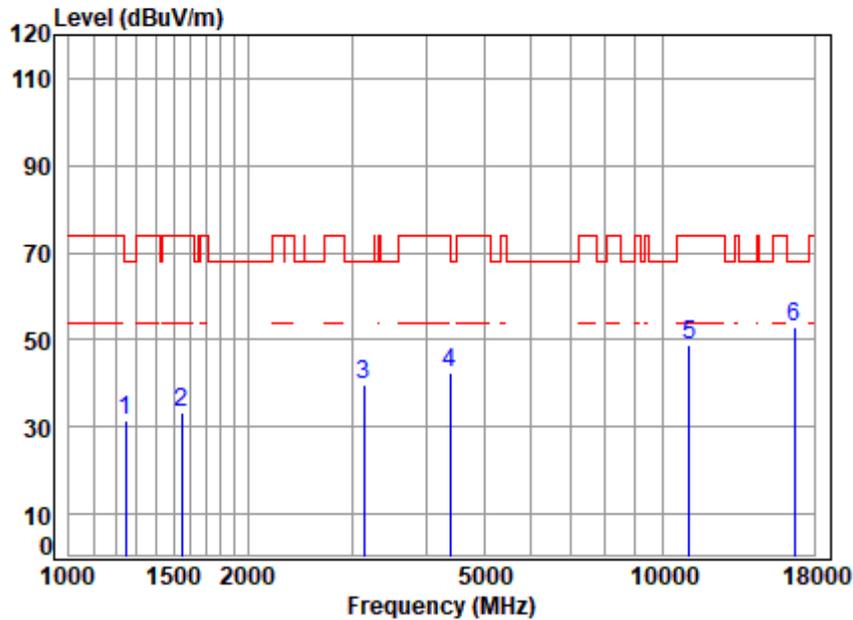
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5550 TX RSE  
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1234.909	3.73	24.89	54.69	56.89	30.82	74.00	-43.18 peak
2	1597.181	4.18	26.81	54.80	56.62	32.81	74.00	-41.19 peak
3	3214.623	6.27	32.67	54.83	55.73	39.84	68.20	-28.36 peak
4	3714.443	6.58	32.97	54.48	57.58	42.65	74.00	-31.35 peak
5	11100.000	11.73	37.50	53.02	51.90	48.11	74.00	-25.89 peak
6	p16650.000	14.09	42.50	52.52	49.26	53.33	68.20	-14.87 peak



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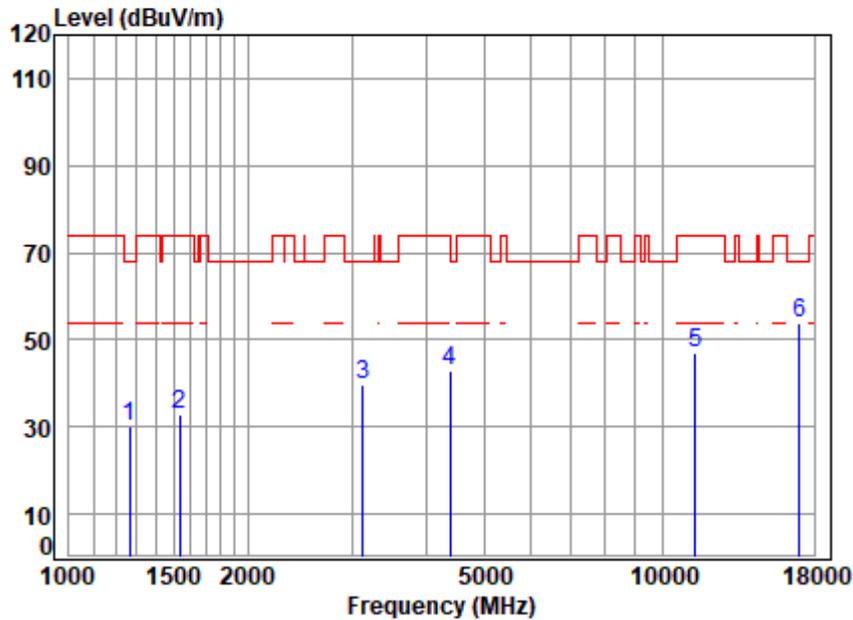
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5550 TX RSE  
 Note : 5G WIFI 11N40

	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	1245.663	3.74	25.04	54.70	57.31	31.39	68.20	-36.81	peak
2	1547.199	4.11	26.99	54.79	56.91	33.22	74.00	-40.78	peak
3	3141.145	6.20	32.34	54.89	55.88	39.53	68.20	-28.67	peak
4	4379.699	7.11	34.64	54.26	55.02	42.51	74.00	-31.49	peak
5	11100.000	11.73	37.50	53.02	52.82	49.03	74.00	-24.97	peak
6	p16650.000	14.09	42.50	52.52	48.67	52.74	68.20	-15.46	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5670 TX RSE  
 Note : 5G WIFI 11N40

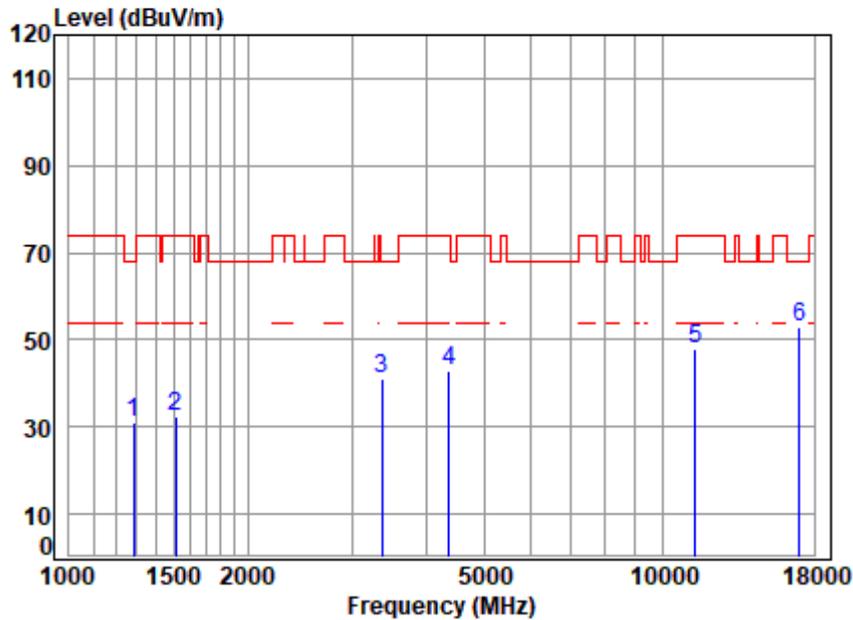
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	3.77	25.00	54.70	55.90	29.97	68.20	-38.23	peak
2	1538.281	4.10	26.95	54.79	56.76	33.02	74.00	-40.98	peak
3	3132.079	6.20	32.18	54.90	56.36	39.84	68.20	-28.36	peak
4	4392.376	7.13	34.74	54.26	55.32	42.93	74.00	-31.07	peak
5	11340.000	11.86	37.76	53.07	50.54	47.09	74.00	-26.91	peak
6	p17010.000	14.33	43.10	52.89	49.34	53.88	68.20	-14.32	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5670 TX RSE  
 Note : 5G WIFI 11N40

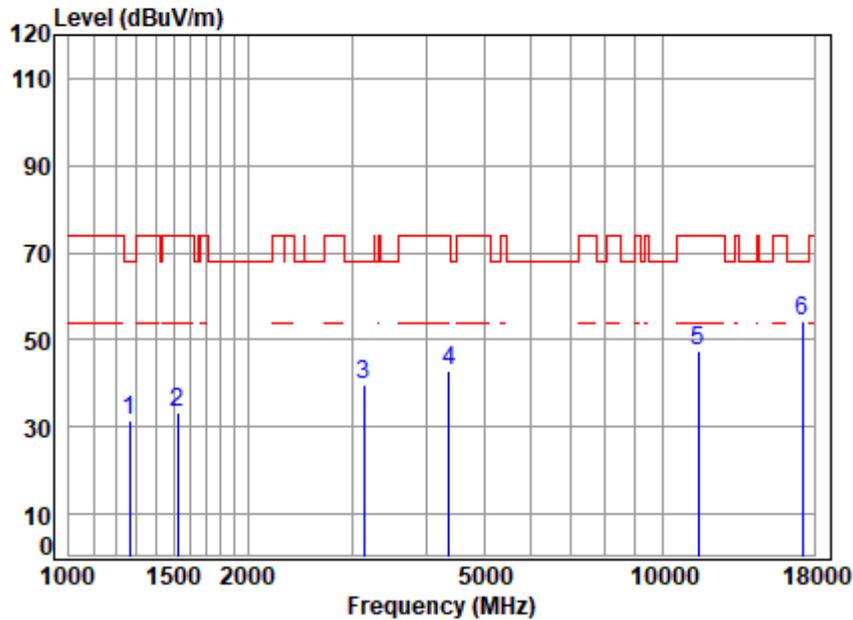
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.79	24.88	54.71	56.85	30.81	68.20	-37.39	peak
2	1511.833	4.06	26.85	54.78	56.40	32.53	74.00	-41.47	peak
3	3366.778	6.41	32.20	54.72	56.95	40.84	68.20	-27.36	peak
4	4367.058	7.10	34.54	54.26	55.37	42.75	74.00	-31.25	peak
5	11340.000	11.86	37.76	53.07	51.35	47.90	74.00	-26.10	peak
6	p17010.000	14.33	43.10	52.89	48.61	53.15	68.20	-15.05	peak



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



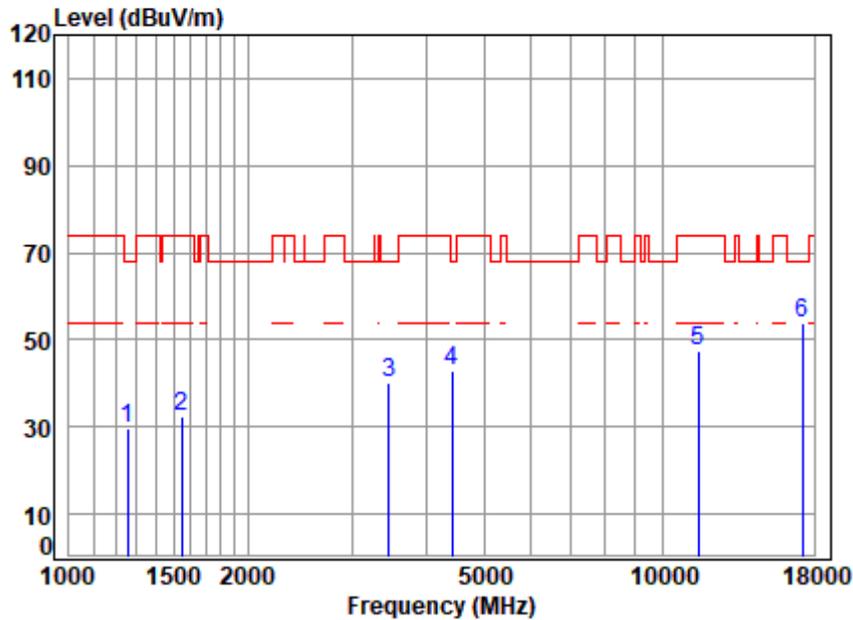
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11A

	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	1267.454	3.77	25.00	54.70	57.23	31.30	68.20	-36.90	peak
2	1525.000	4.08	26.90	54.78	56.91	33.11	74.00	-40.89	peak
3	3141.145	6.20	32.34	54.89	56.26	39.91	68.20	-28.29	peak
4	4367.058	7.10	34.54	54.26	55.63	43.01	74.00	-30.99	peak
5	11490.000	11.94	37.79	53.10	50.98	47.61	74.00	-26.39	peak
6	p17235.000	14.59	43.03	52.78	49.36	54.20	68.20	-14.00	peak



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



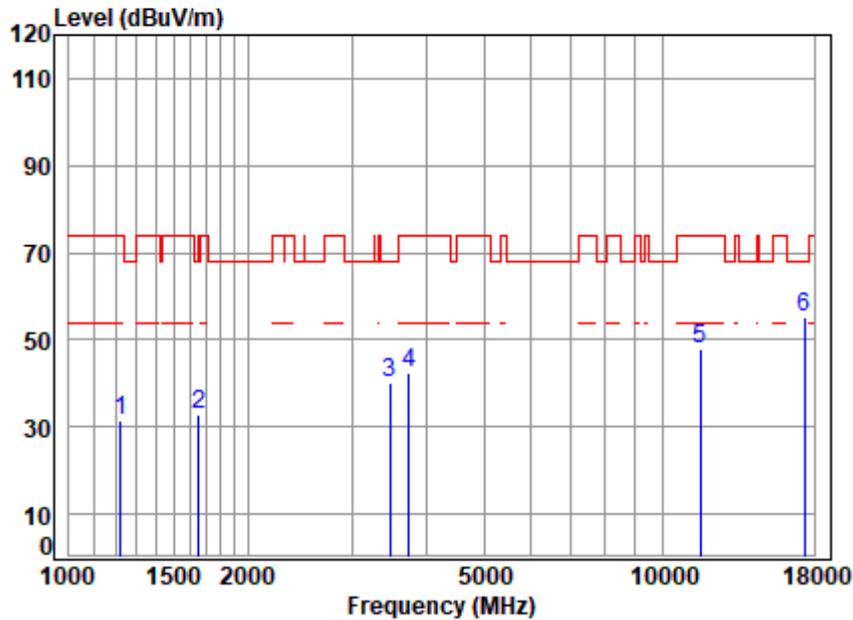
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11A

	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	1256.512	3.76	25.06	54.70	55.56	29.68	68.20	-38.52	peak
2	1547.199	4.11	26.99	54.79	56.18	32.49	74.00	-41.51	peak
3	3455.508	6.48	31.78	54.66	56.49	40.09	68.20	-28.11	peak
4	4417.841	7.16	34.59	54.26	55.18	42.67	68.20	-25.53	peak
5	11490.000	11.94	37.79	53.10	50.86	47.49	74.00	-26.51	peak
6	p17235.000	14.59	43.03	52.78	48.82	53.66	68.20	-14.54	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11A

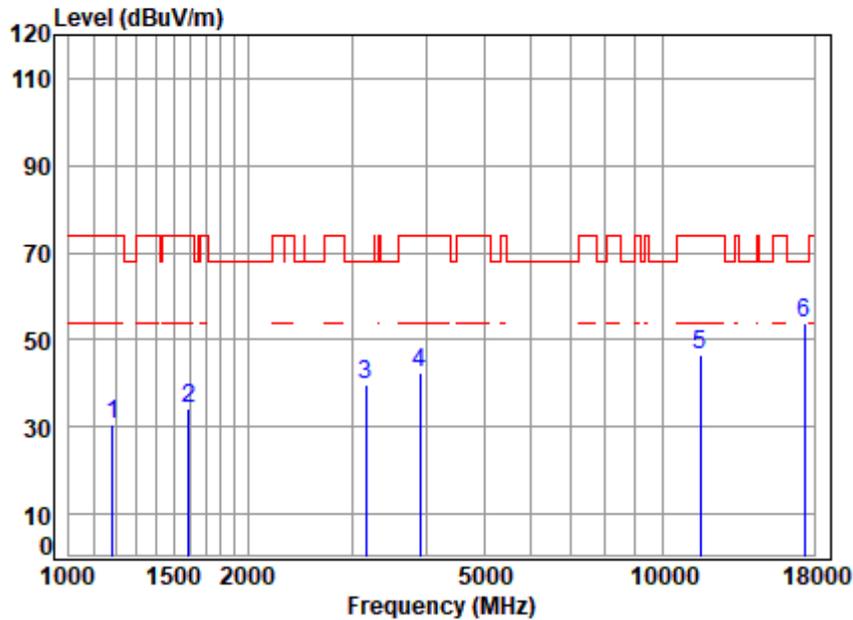
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.71	24.74	54.69	57.58	31.34	74.00	-42.66	peak
2	1653.550	4.26	26.29	54.82	57.12	32.85	68.20	-35.35	peak
3	3475.541	6.50	31.70	54.64	56.58	40.14	68.20	-28.06	peak
4	3746.792	6.59	32.91	54.46	57.44	42.48	74.00	-31.52	peak
5	11570.000	11.95	37.73	53.12	51.24	47.80	74.00	-26.20	peak
6	p17355.000	14.73	43.26	52.72	49.77	55.04	68.20	-13.16	peak



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



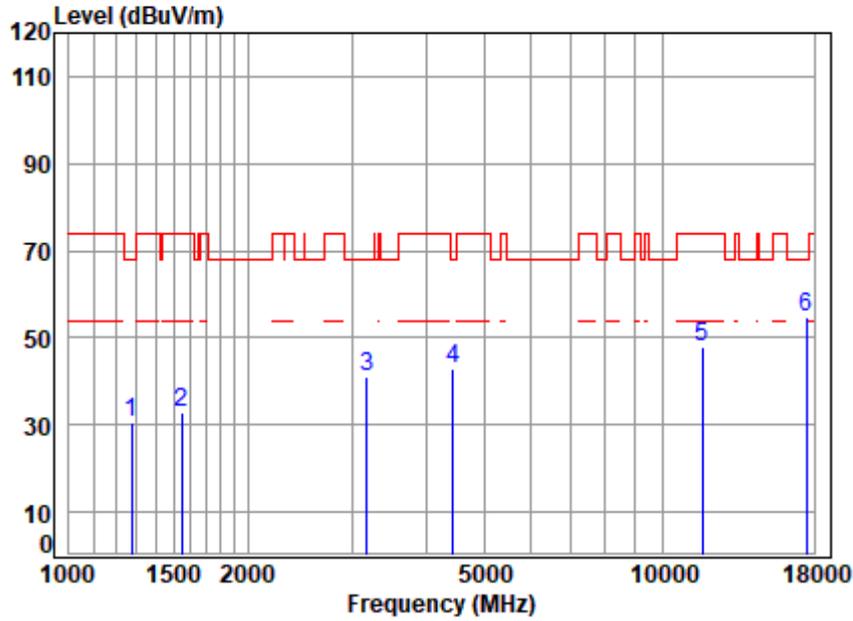
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11A

	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	1182.513	3.66	24.23	54.67	57.35	30.57	74.00	-43.43	peak
2	1592.571	4.18	26.83	54.80	57.79	34.00	74.00	-40.00	peak
3	3168.500	6.23	32.65	54.87	55.91	39.92	68.20	-28.28	peak
4	3901.516	6.63	33.79	54.36	56.17	42.23	74.00	-31.77	peak
5	11570.000	11.95	37.73	53.12	49.78	46.34	74.00	-27.66	peak
6	p17355.000	14.73	43.26	52.72	48.62	53.89	68.20	-14.31	peak



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



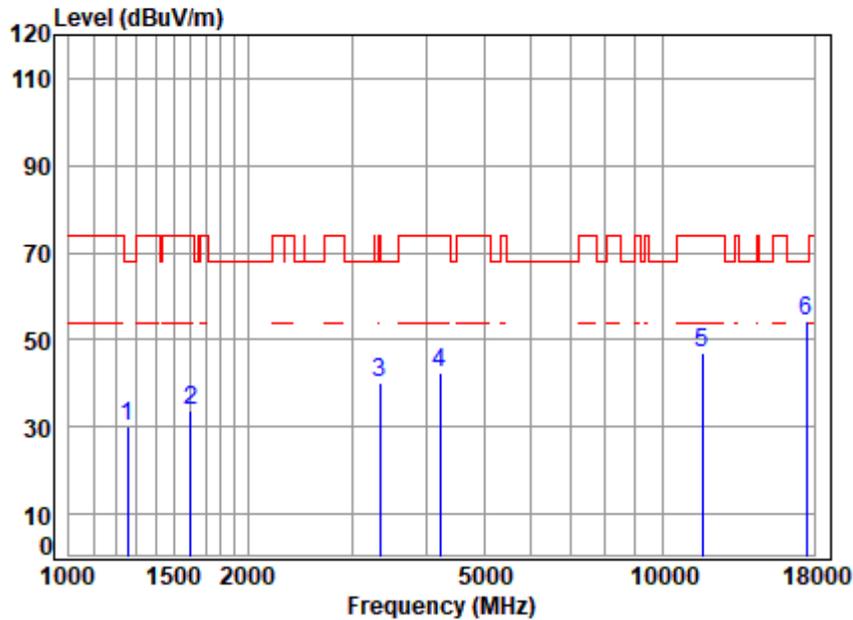
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11A

	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	1274.802	3.78	24.95	54.71	56.76	30.78	68.20	-37.42	peak
2	1547.199	4.11	26.99	54.79	56.46	32.77	74.00	-41.23	peak
3	3177.672	6.24	32.72	54.86	56.88	40.98	68.20	-27.22	peak
4	4430.628	7.17	34.43	54.25	55.50	42.85	68.20	-25.35	peak
5	11650.000	11.95	37.80	53.13	51.35	47.97	74.00	-26.03	peak
6	p17475.000	14.86	43.40	52.66	49.14	54.74	68.20	-13.46	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11A

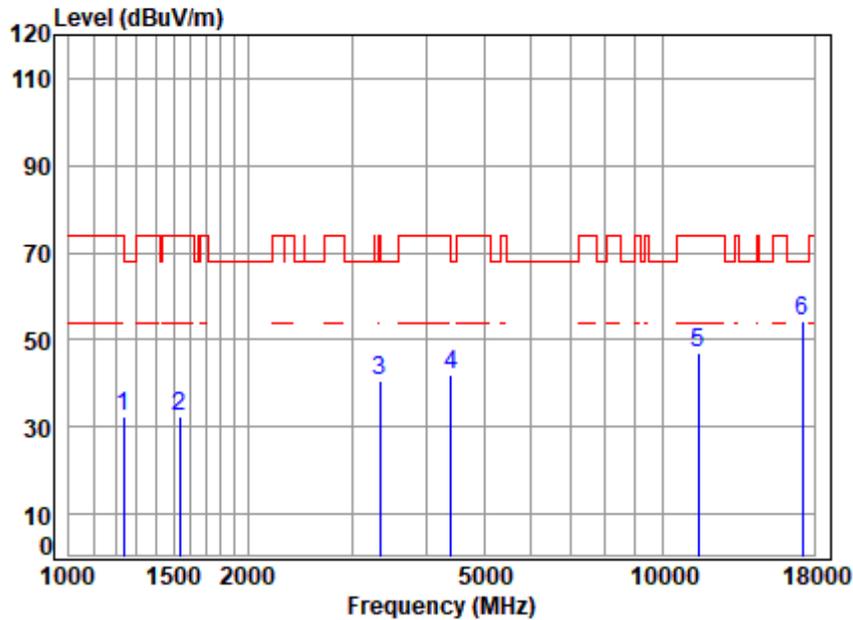
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.76	25.06	54.70	56.09	30.21	68.20	-37.99	peak
2	1606.441	4.19	26.74	54.81	57.59	33.71	74.00	-40.29	peak
3	3347.371	6.39	32.05	54.73	56.59	40.30	74.00	-33.70	peak
4	4218.186	6.92	33.80	54.28	56.00	42.44	74.00	-31.56	peak
5	11650.000	11.95	37.80	53.13	50.47	47.09	74.00	-26.91	peak
6	p17475.000	14.86	43.40	52.66	48.63	54.23	68.20	-13.97	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11N20

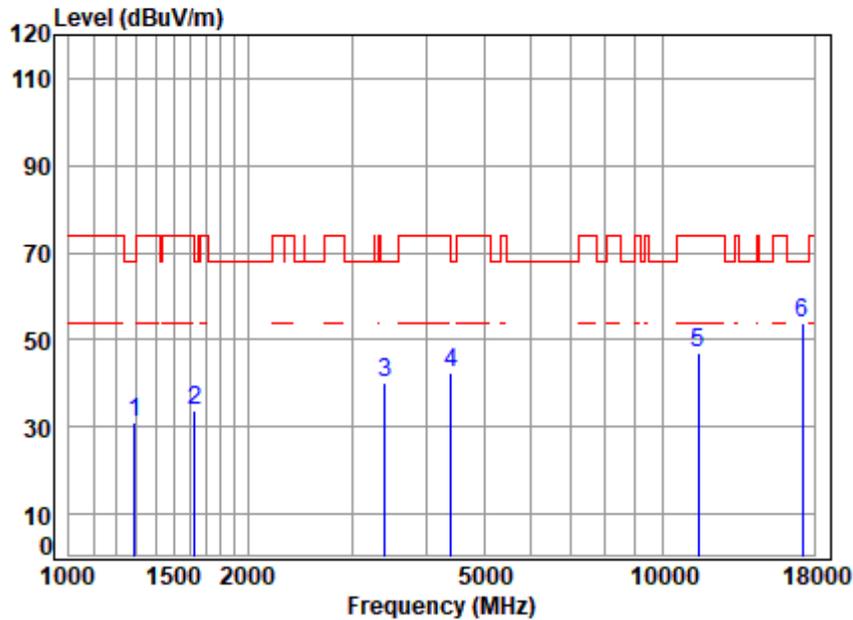
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.73	24.94	54.69	58.33	32.31	74.00	-41.69	peak
2	1533.841	4.09	26.94	54.79	56.37	32.61	74.00	-41.39	peak
3	3347.371	6.39	32.05	54.73	56.86	40.57	74.00	-33.43	peak
4	4405.090	7.14	34.74	54.26	54.52	42.14	68.20	-26.06	peak
5	11490.000	11.94	37.79	53.10	50.14	46.77	74.00	-27.23	peak
6	p17235.000	14.59	43.03	52.78	49.39	54.23	68.20	-13.97	peak



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



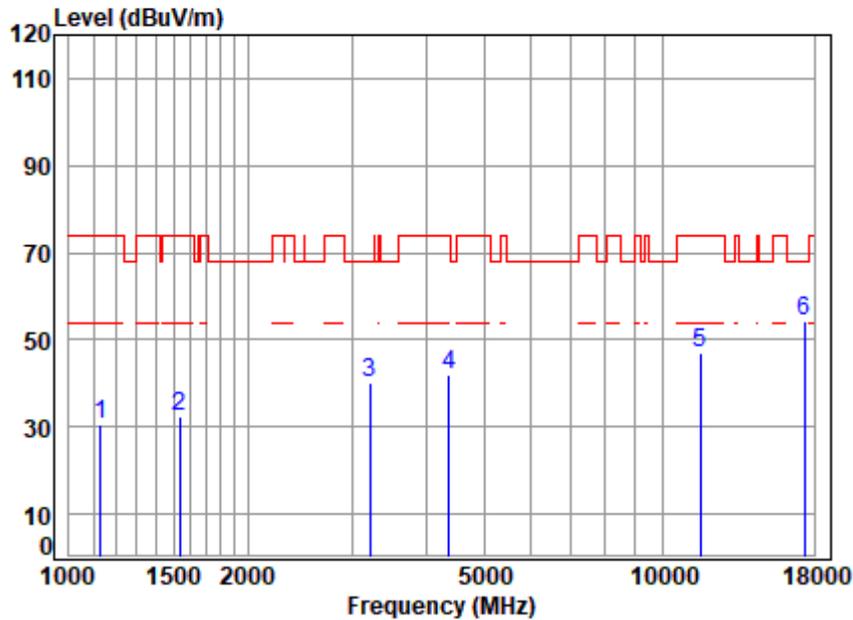
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11N20

	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	1289.627	3.80	24.86	54.71	56.90	30.85	68.20	-37.35	peak
2	1629.825	4.23	26.50	54.81	57.84	33.76	68.20	-34.44	peak
3	3405.929	6.44	32.33	54.69	56.23	40.31	68.20	-27.89	peak
4	4405.090	7.14	34.74	54.26	54.77	42.39	68.20	-25.81	peak
5	11490.000	11.94	37.79	53.10	50.52	47.15	74.00	-26.85	peak
6	p17235.000	14.59	43.03	52.78	49.14	53.98	68.20	-14.22	peak



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



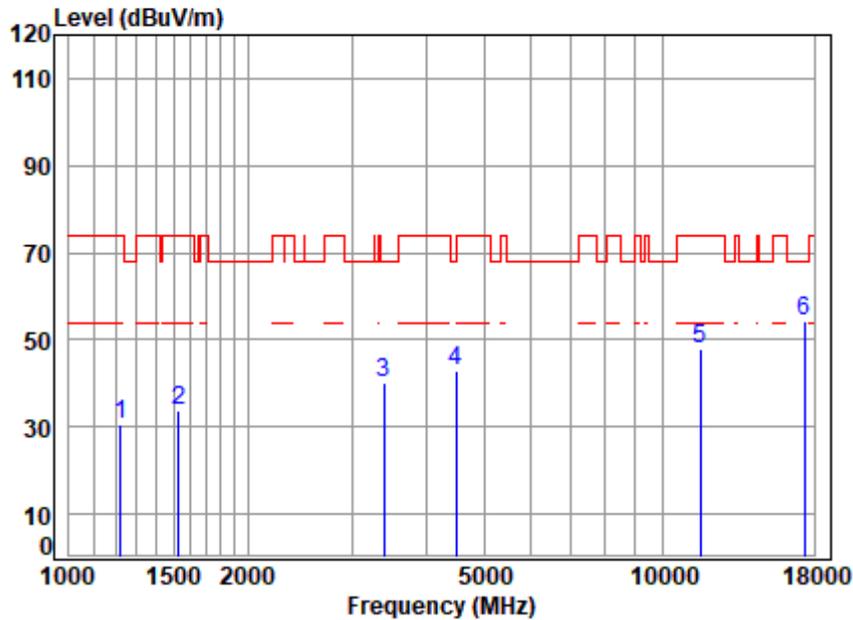
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11N20

	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	1132.340	3.59	23.83	54.65	57.74	30.51	74.00	-43.49	peak
2	1538.281	4.10	26.95	54.79	56.11	32.37	74.00	-41.63	peak
3	3214.623	6.27	32.67	54.83	55.84	39.95	68.20	-28.25	peak
4	4367.058	7.10	34.54	54.26	54.70	42.08	74.00	-31.92	peak
5	11570.000	11.95	37.73	53.12	50.22	46.78	74.00	-27.22	peak
6	p17355.000	14.73	43.26	52.72	48.98	54.25	68.20	-13.95	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11N20

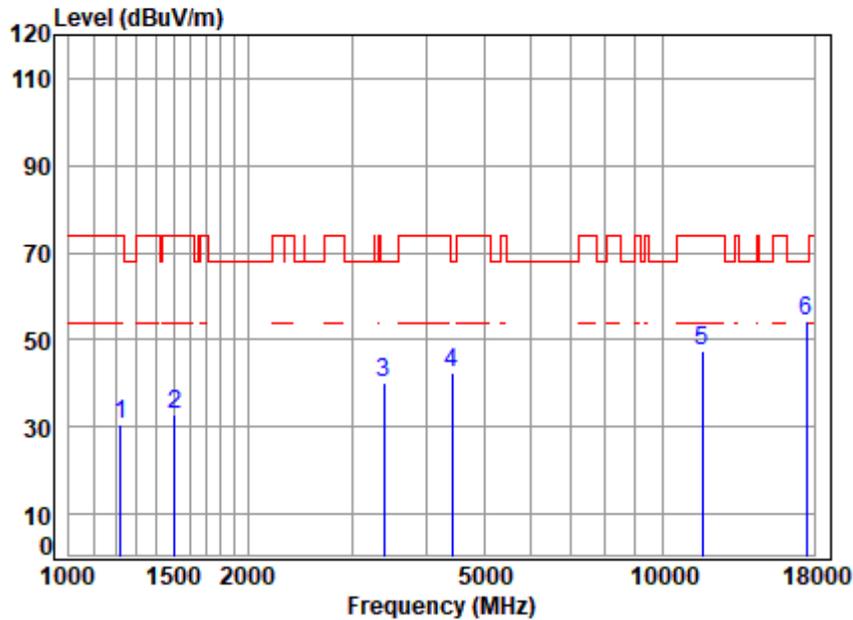
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1224.247	3.71	24.74	54.69	56.70	30.46	74.00	-43.54 peak
2	1529.414	4.08	26.92	54.78	57.57	33.79	74.00	-40.21 peak
3	3396.098	6.43	32.38	54.70	55.97	40.08	68.20	-28.12 peak
4	4482.150	7.23	33.81	54.25	56.01	42.80	68.20	-25.40 peak
5	11570.000	11.95	37.73	53.12	51.16	47.72	74.00	-26.28 peak
6	p17355.000	14.73	43.26	52.72	48.84	54.11	68.20	-14.09 peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11N20

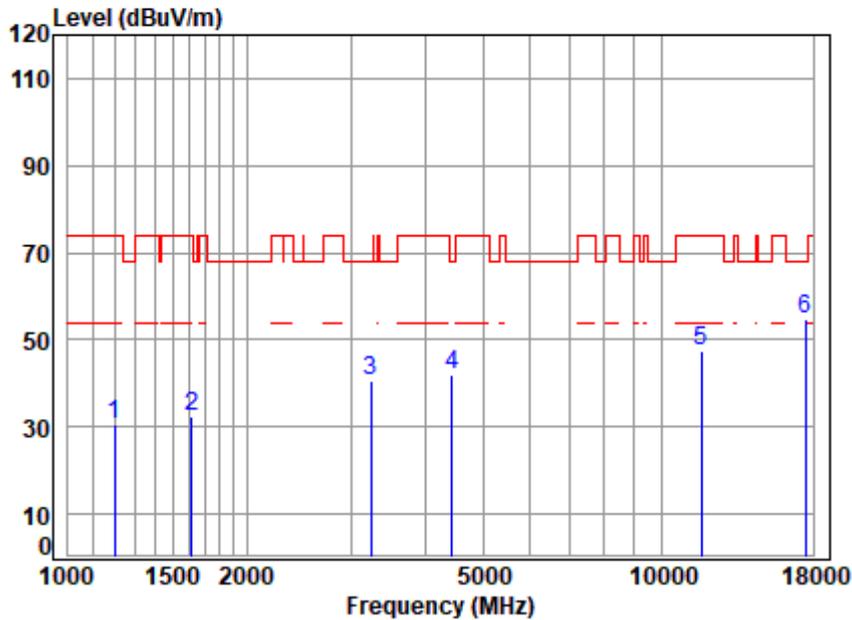
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	3.71	24.69	54.69	56.97	30.68	74.00	-43.32	peak
2	1507.470	4.05	26.83	54.78	56.86	32.96	74.00	-41.04	peak
3	3396.098	6.43	32.38	54.70	56.04	40.15	68.20	-28.05	peak
4	4417.841	7.16	34.59	54.26	54.96	42.45	68.20	-25.75	peak
5	11650.000	11.95	37.80	53.13	50.71	47.33	74.00	-26.67	peak
6	p17475.000	14.86	43.40	52.66	48.73	54.33	68.20	-13.87	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11N20

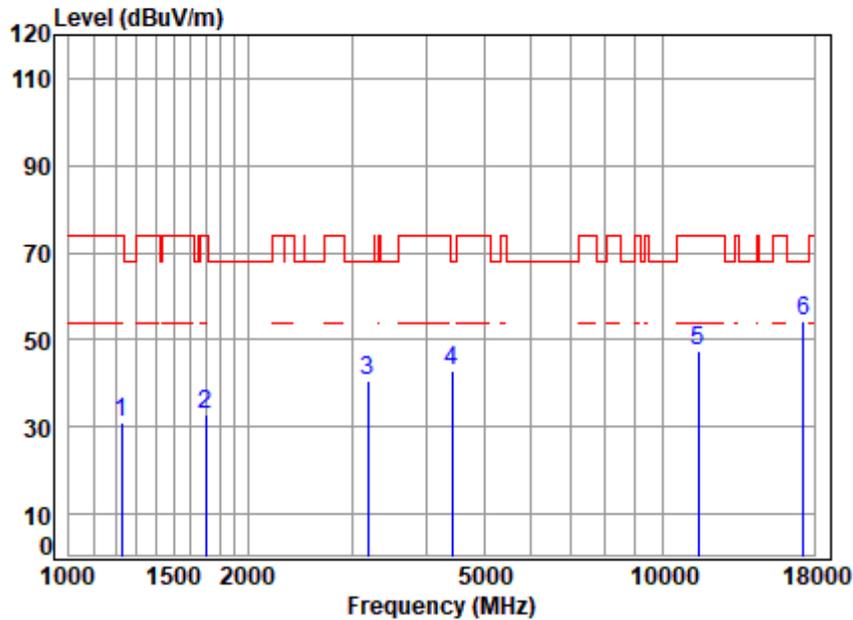
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	3.68	24.36	54.68	57.12	30.48	74.00	-43.52	peak
2	1615.754	4.21	26.64	54.81	56.16	32.20	74.00	-41.80	peak
3	3233.260	6.29	32.37	54.82	56.58	40.42	68.20	-27.78	peak
4	4443.453	7.19	34.28	54.25	54.74	41.96	68.20	-26.24	peak
5	11650.000	11.95	37.80	53.13	50.88	47.50	74.00	-26.50	peak
6	p17475.000	14.86	43.40	52.66	49.08	54.68	68.20	-13.52	peak



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



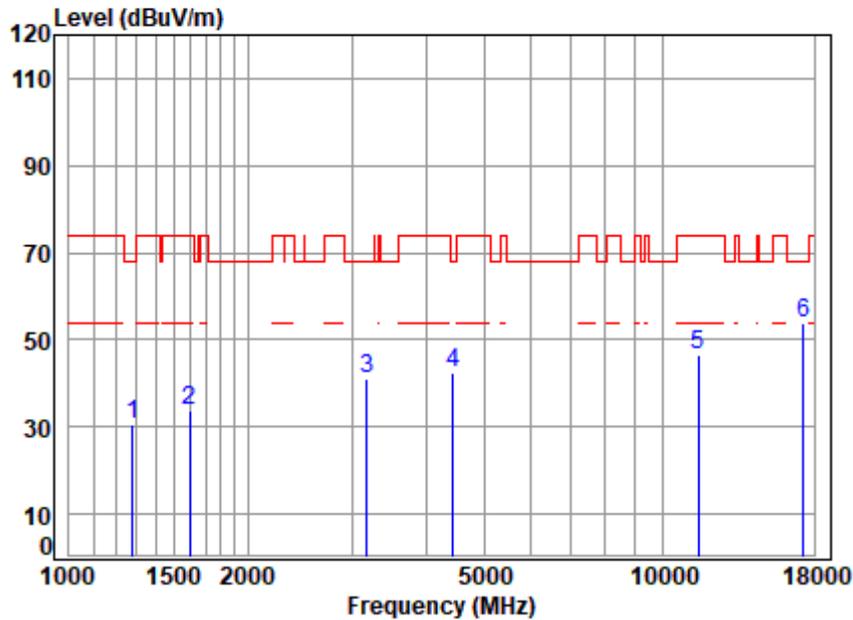
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5755 TX RSE  
 Note : 5G WIFI 11N40

	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	1227.791	3.72	24.79	54.69	57.01	30.83	74.00	-43.17	peak
2	1697.129	4.32	26.21	54.83	56.99	32.69	74.00	-41.31	peak
3	3186.869	6.25	32.79	54.85	56.59	40.78	68.20	-27.42	peak
4	4417.841	7.16	34.59	54.26	55.59	43.08	68.20	-25.12	peak
5	11510.000	11.95	37.79	53.10	50.87	47.51	74.00	-26.49	peak
6	p17265.000	14.62	43.06	52.76	49.25	54.17	68.20	-14.03	peak



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



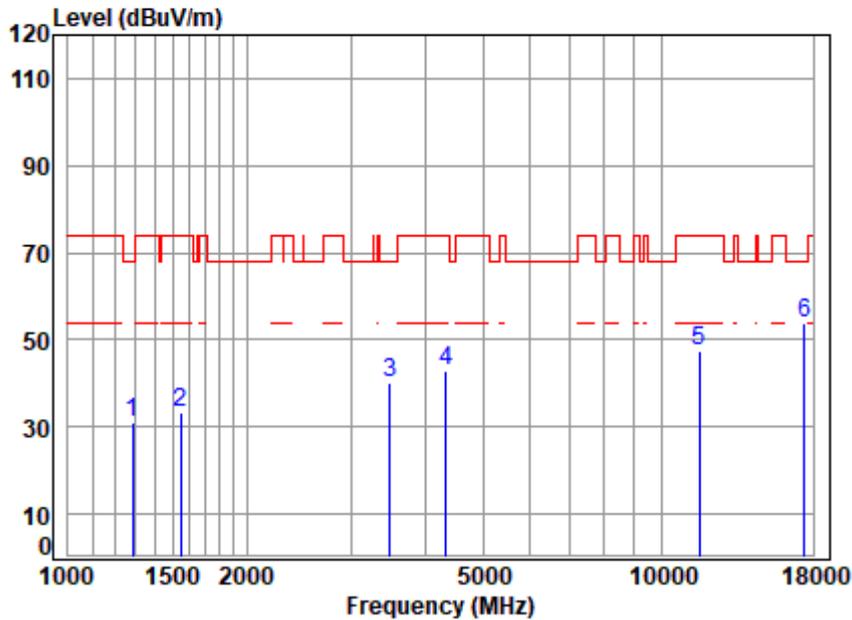
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5755 TX RSE  
 Note : 5G WIFI 11N40

	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	1282.193	3.79	24.91	54.71	56.61	30.60	68.20	-37.60	peak
2	1597.181	4.18	26.81	54.80	57.38	33.57	74.00	-40.43	peak
3	3177.672	6.24	32.72	54.86	56.84	40.94	68.20	-27.26	peak
4	4430.628	7.17	34.43	54.25	55.18	42.53	68.20	-25.67	peak
5	11510.000	11.95	37.79	53.10	50.04	46.68	74.00	-27.32	peak
6	p17265.000	14.62	43.06	52.76	49.12	54.04	68.20	-14.16	peak



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



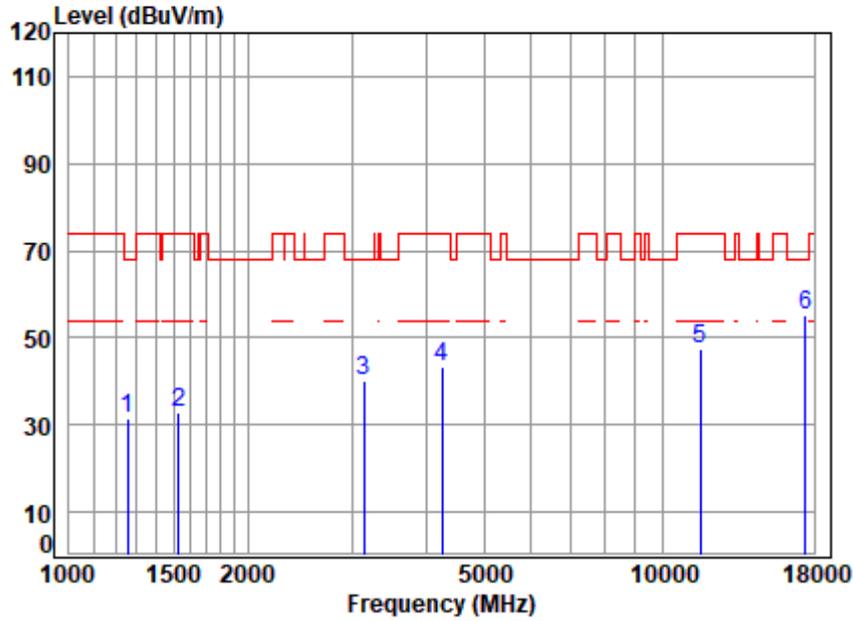
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5795 TX RSE  
 Note : 5G WIFI 11N40

	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	1285.904	3.79	24.88	54.71	57.03	30.99	68.20	-37.21	peak
2	1547.199	4.11	26.99	54.79	56.84	33.15	74.00	-40.85	peak
3	3485.601	6.51	31.66	54.63	56.38	39.92	68.20	-28.28	peak
4	4329.354	7.05	34.23	54.26	55.94	42.96	74.00	-31.04	peak
5	11590.000	11.95	37.71	53.12	51.10	47.64	74.00	-26.36	peak
6	p17385.000	14.76	43.35	52.70	48.36	53.77	68.20	-14.43	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5795 TX RSE  
 Note : 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	1256.512	3.76	25.06	54.70	57.45	31.57	68.20	-36.63	peak
2	1529.414	4.08	26.92	54.78	56.74	32.96	74.00	-41.04	peak
3	3141.145	6.20	32.34	54.89	56.63	40.28	68.20	-27.92	peak
4	4242.641	6.95	33.80	54.27	56.75	43.23	74.00	-30.77	peak
5	11590.000	11.95	37.71	53.12	50.81	47.35	74.00	-26.65	peak
6	p17385.000	14.76	43.35	52.70	49.65	55.06	68.20	-13.14	peak



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

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

\*(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: 22.1 °C Humidity: 36.9 % RH Atmospheric Pressure: 1020 mbar

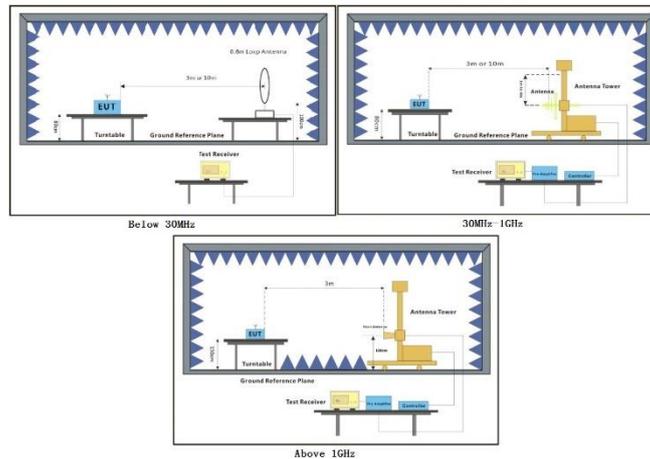


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**7.5.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	06	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 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, Only the data of worst case is recorded in the report.

**7.5.3 Test Setup Diagram**



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 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

### 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.

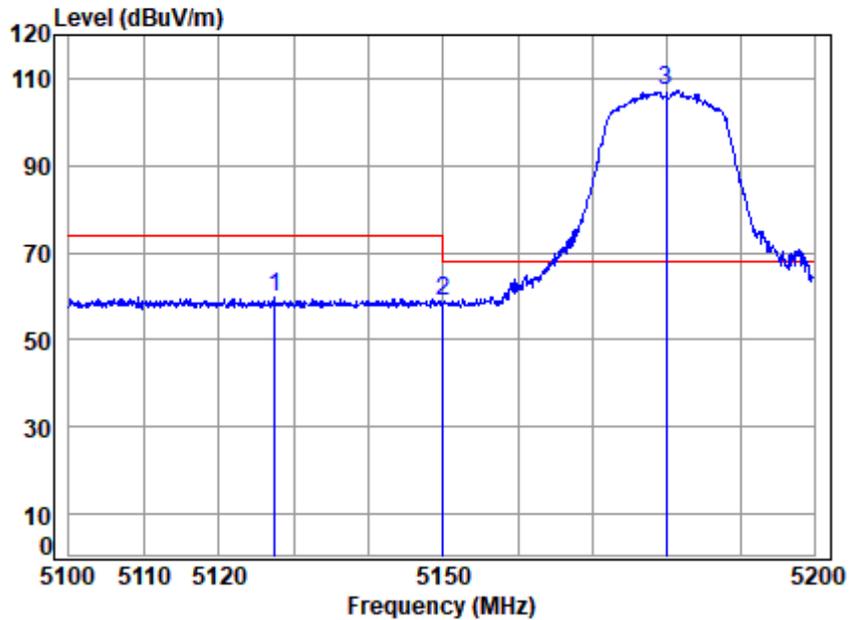
Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



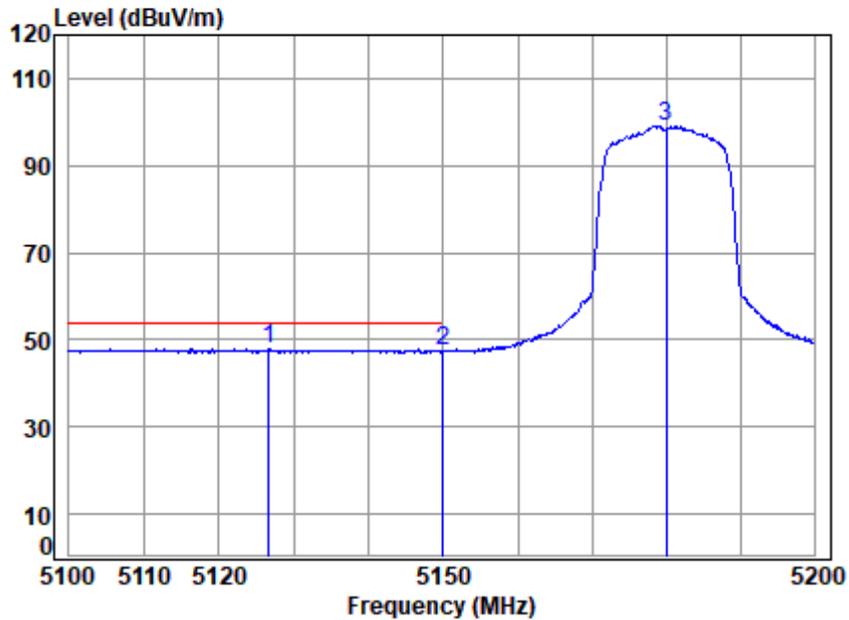
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	5127.406	18.80	33.95	31.27	38.26	59.74	74.00	-14.26 peak
2	5149.980	18.83	33.90	31.28	37.39	58.84	74.00	-15.16 peak
3 p	5180.000	18.88	33.96	31.30	85.85	107.39	68.20	39.19 peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



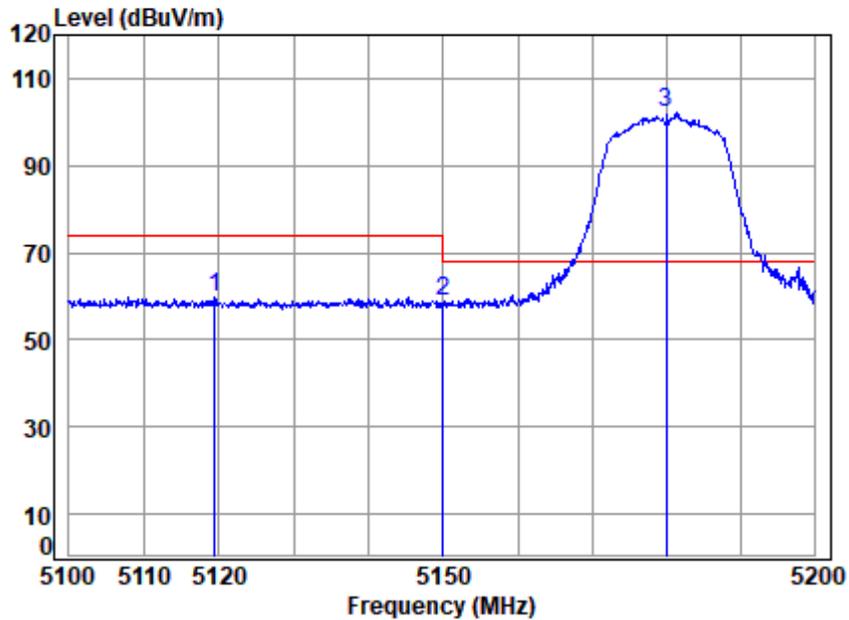
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11A

		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 q 5126.610	18.80	33.95	31.27	26.41	47.89	54.00	-6.11	Average
2 5149.980	18.83	33.90	31.28	25.95	47.40	54.00	-6.60	Average
3 5180.000	18.88	33.96	31.30	77.49	99.03	-----	-----	Average



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



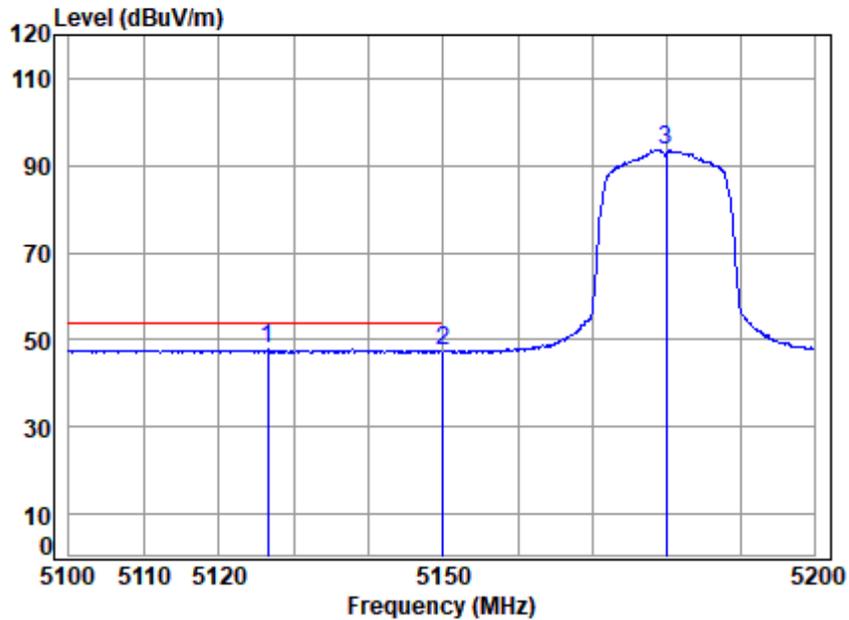
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11A

	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	5119.447	18.79	33.96	31.26	38.14	59.63	74.00	-14.37 Peak
2	5149.980	18.83	33.90	31.28	37.33	58.78	74.00	-15.22 Peak
3 p	5180.000	18.88	33.96	31.30	80.58	102.12	68.20	33.92 Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



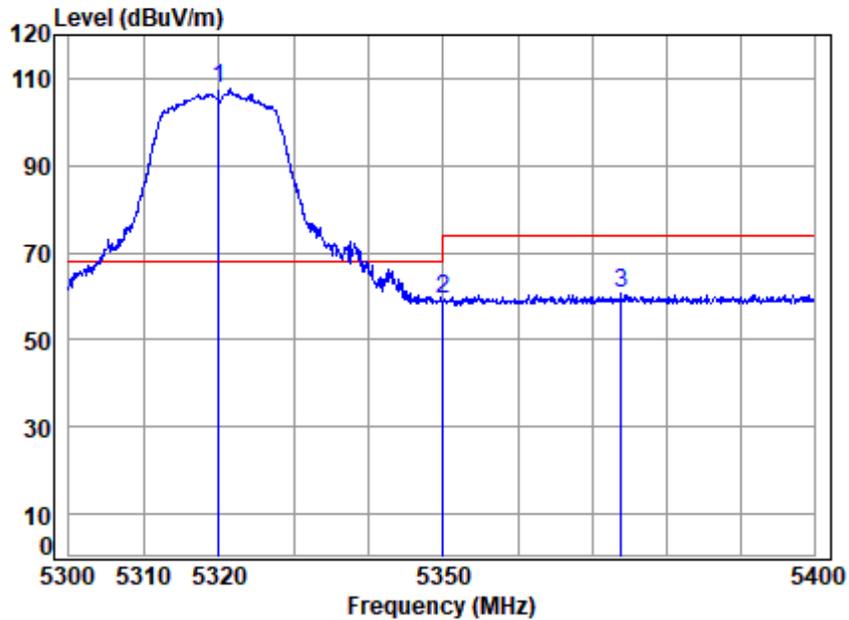
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11A

		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 q 5126.510	18.80	33.95	31.27	26.34	47.82	54.00	-6.18	Average	
2 5149.980	18.83	33.90	31.28	26.15	47.60	54.00	-6.40	Average	
3 5180.000	18.88	33.96	31.30	72.21	93.75	-----	-----	Average	



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



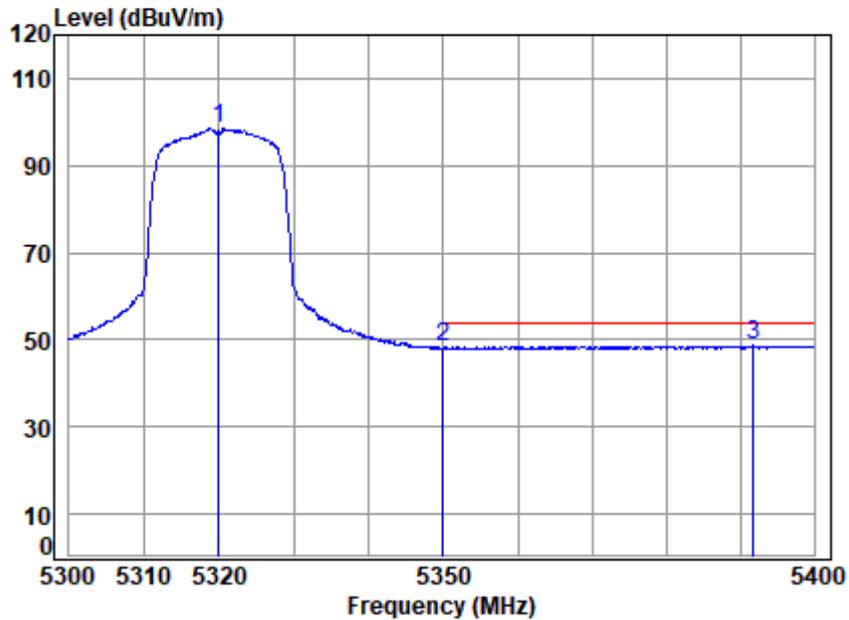
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11A

	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 p 5320.000	19.07	34.28	31.37	85.70	107.68	68.20	39.48	peak
2 5350.020	19.11	34.40	31.39	37.09	59.21	74.00	-14.79	peak
3 5373.920	19.14	34.50	31.40	38.22	60.46	74.00	-13.54	peak



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



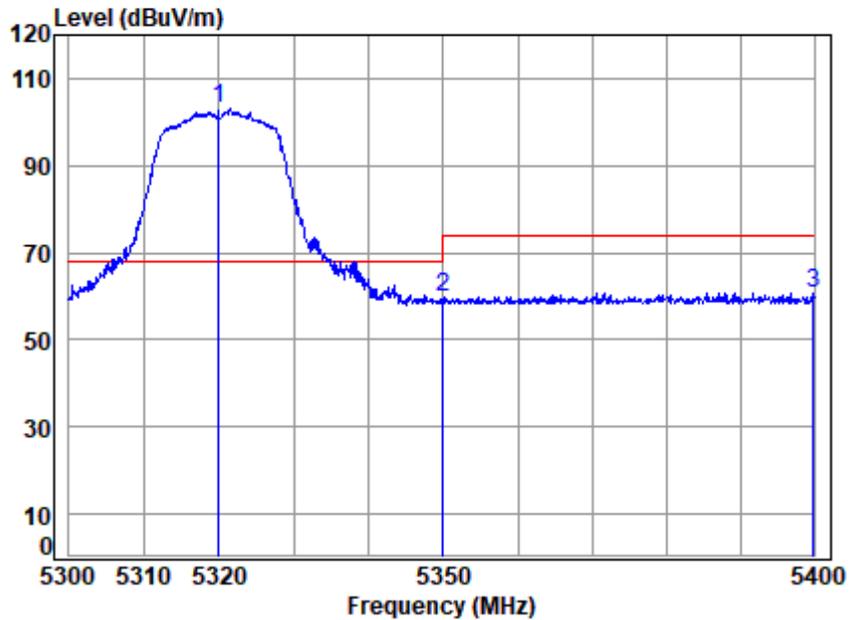
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	19.07	34.28	31.37	76.49	98.47	-----	-----	Average
2	5350.020	19.11	34.40	31.39	26.09	48.21	54.00	-5.79	Average
3 q	5391.729	19.17	34.57	31.41	26.32	48.65	54.00	-5.35	Average



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



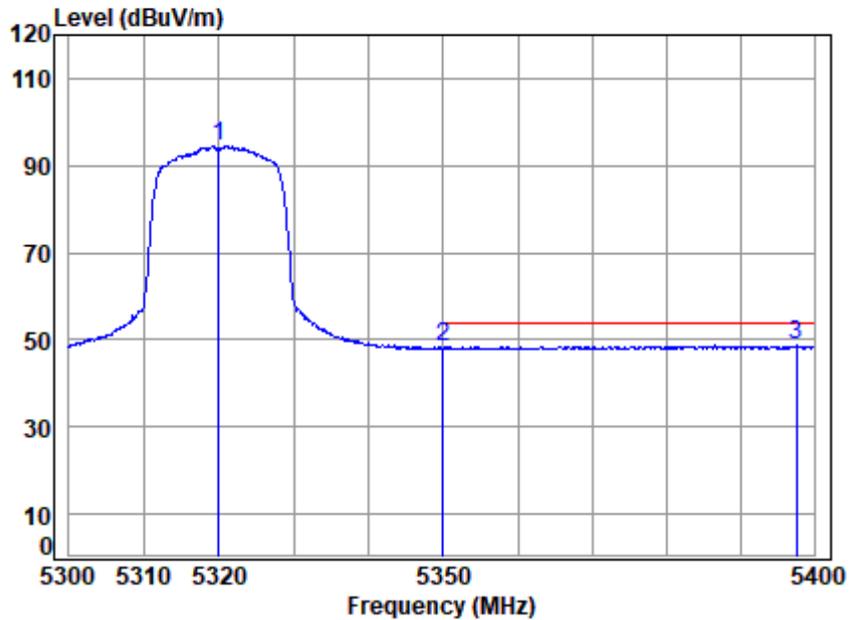
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11A

		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 p 5320.000	19.07	34.28	31.37	81.13	103.11	68.20	34.91	Peak
2 5350.020	19.11	34.40	31.39	37.86	59.98	74.00	-14.02	Peak
3 5399.899	19.18	34.60	31.41	38.51	60.88	74.00	-13.12	Peak



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



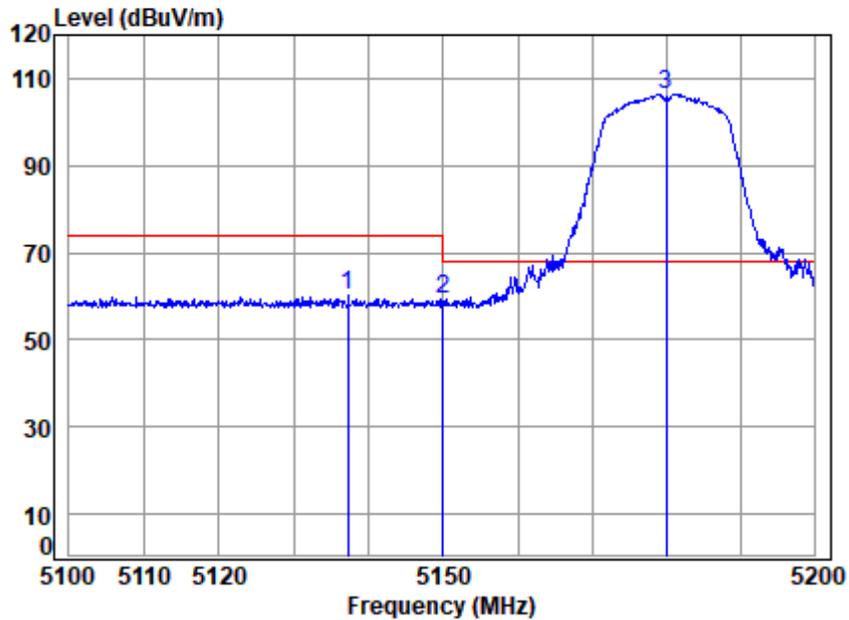
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	19.07	34.28	31.37	72.52	94.50	-----	-----	Average
2	5350.020	19.11	34.40	31.39	26.09	48.21	54.00	-5.79	Average
3 q	5397.679	19.17	34.59	31.41	26.31	48.66	54.00	-5.34	Average



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11N20

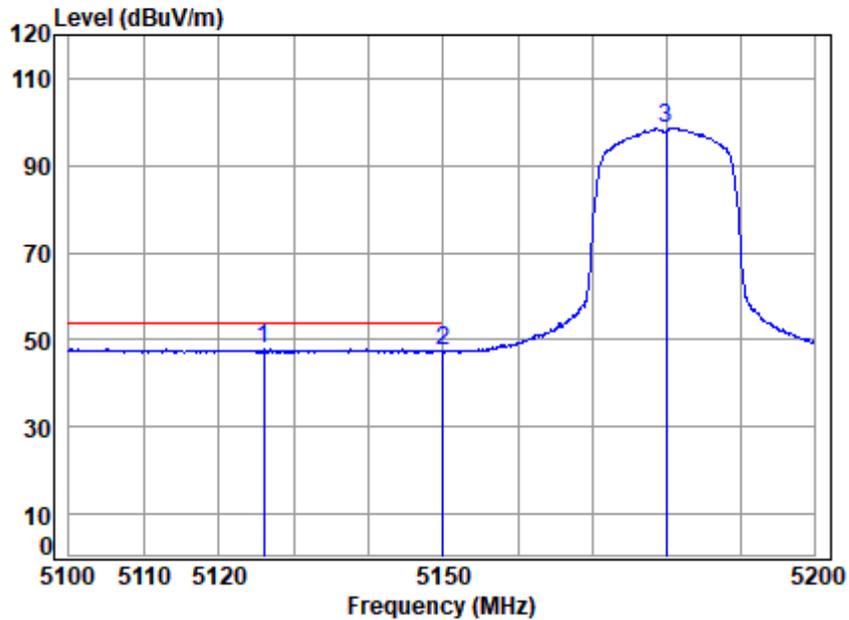
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.272	18.82	33.93	31.27	38.89	60.37	74.00	-13.63	peak
2	5149.980	18.83	33.90	31.28	37.70	59.15	74.00	-14.85	peak
3 p	5180.000	18.88	33.96	31.30	84.89	106.43	68.20	38.23	peak



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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: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



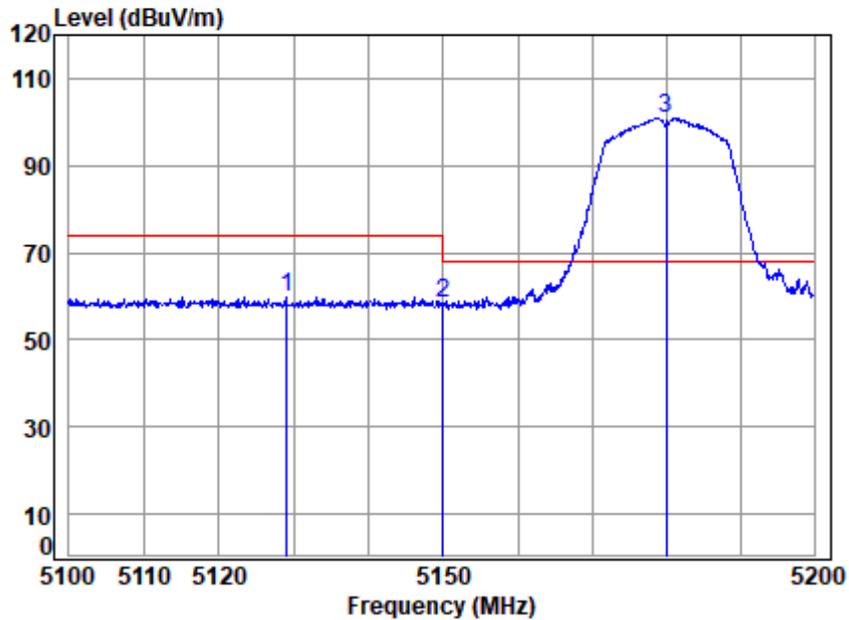
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11N20

		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 q	5125.913	18.80	33.95	31.27	26.40	47.88	54.00	-6.12 Average
2	5149.980	18.83	33.90	31.28	26.05	47.50	54.00	-6.50 Average
3	5180.000	18.88	33.96	31.30	77.23	98.77	-----	----- Average



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



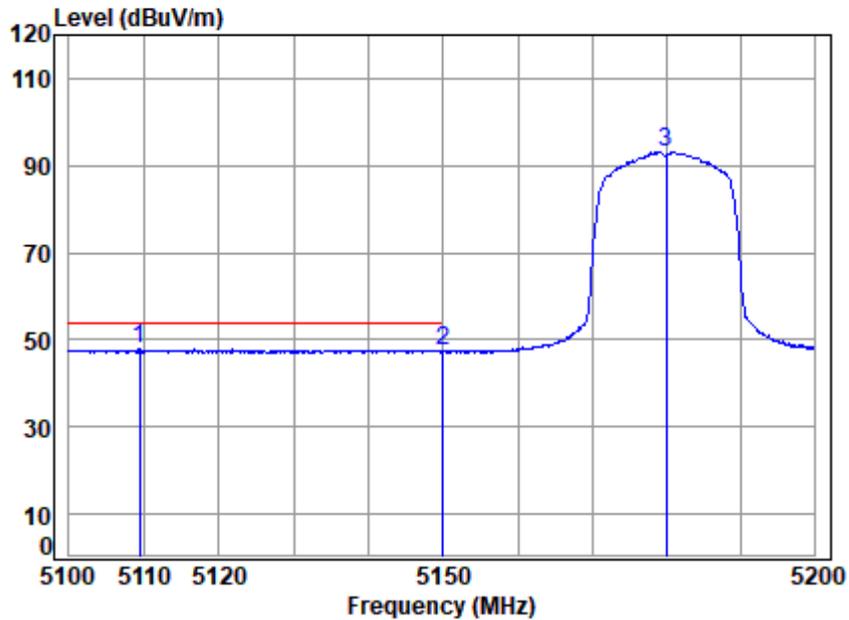
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5129.000	18.80	33.94	31.27	38.41	59.88	74.00	-14.12 Peak
2	5149.980	18.83	33.90	31.28	37.11	58.56	74.00	-15.44 Peak
3 p	5180.000	18.88	33.96	31.30	79.45	100.99	68.20	32.79 Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

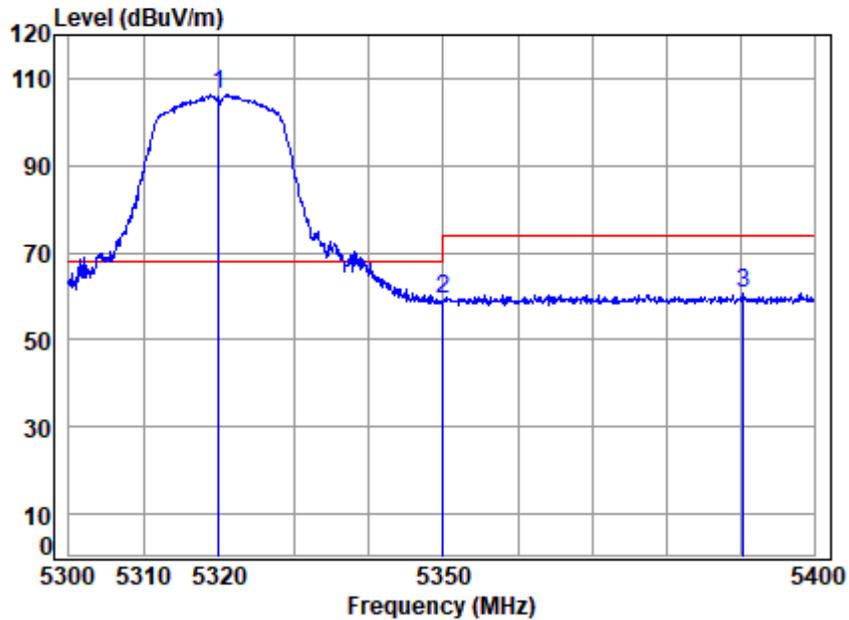


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5180 Band edge  
 : 5G WIFI 11N20

		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 q 5109.417	18.78	33.98	31.26	26.34	47.84	54.00	-6.16	Average
2 5149.980	18.83	33.90	31.28	25.93	47.38	54.00	-6.62	Average
3 5180.000	18.88	33.96	31.30	71.63	93.17	-----	-----	Average



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



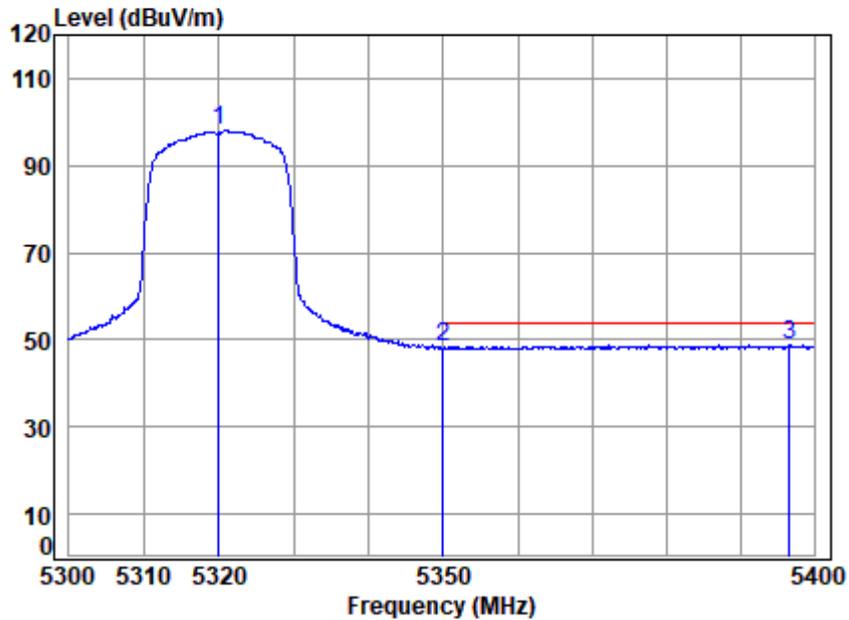
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11N20

	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 p 5320.000	19.07	34.28	31.37	84.39	106.37	68.20	38.17	peak
2 5350.020	19.11	34.40	31.39	37.13	59.25	74.00	-14.75	peak
3 5390.419	19.16	34.56	31.41	38.46	60.77	74.00	-13.23	peak



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



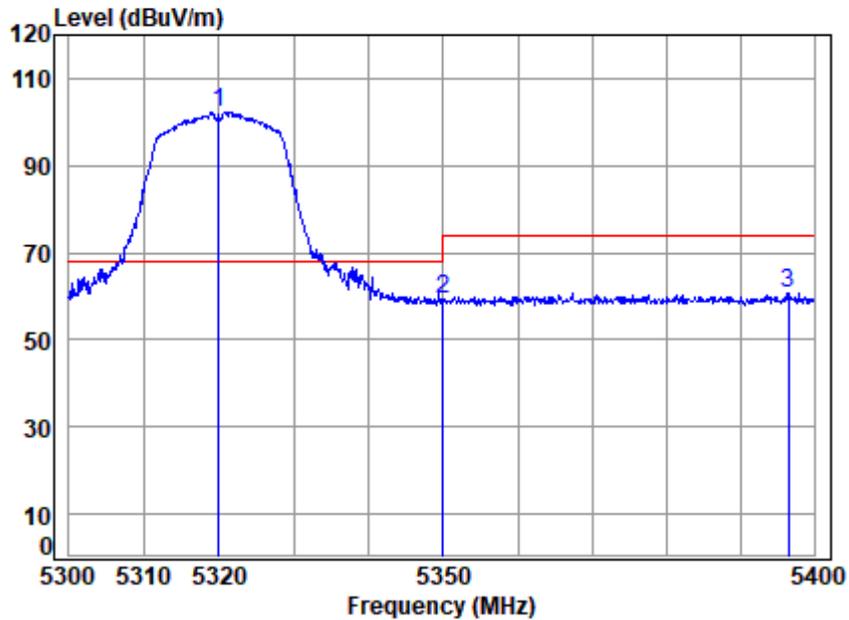
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	19.07	34.28	31.37	76.29	98.27	-----	-----	Average
2	5350.020	19.11	34.40	31.39	26.10	48.22	54.00	-5.78	Average
3 q	5396.670	19.17	34.59	31.41	26.37	48.72	54.00	-5.28	Average



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



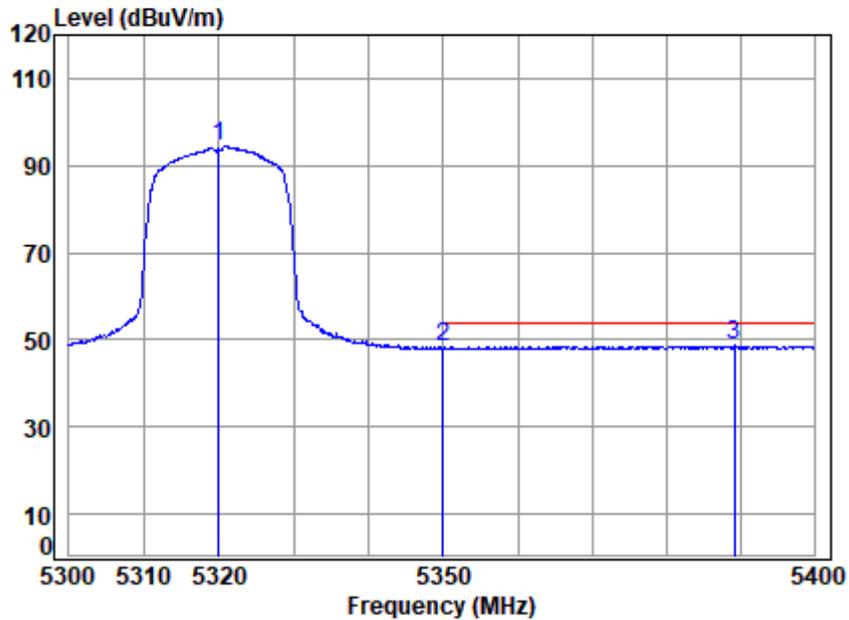
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11N20

		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 p 5320.000	19.07	34.28	31.37	80.30	102.28	68.20	34.08	Peak
2 5350.020	19.11	34.40	31.39	37.19	59.31	74.00	-14.69	Peak
3 5396.468	19.17	34.59	31.41	38.44	60.79	74.00	-13.21	Peak



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



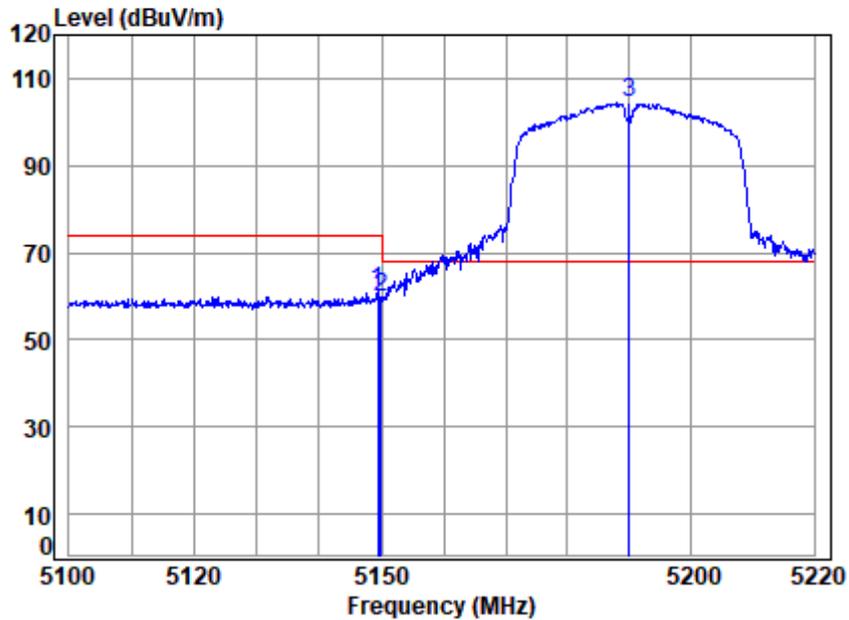
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5320 Band edge  
 : 5G WIFI 11N20

	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	5320.000	19.07	34.28	31.37	72.40	94.38	-----	-----	Average
2	5350.020	19.11	34.40	31.39	26.07	48.19	54.00	-5.81	Average
3 q	5389.210	19.16	34.56	31.41	26.32	48.63	54.00	-5.37	Average



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



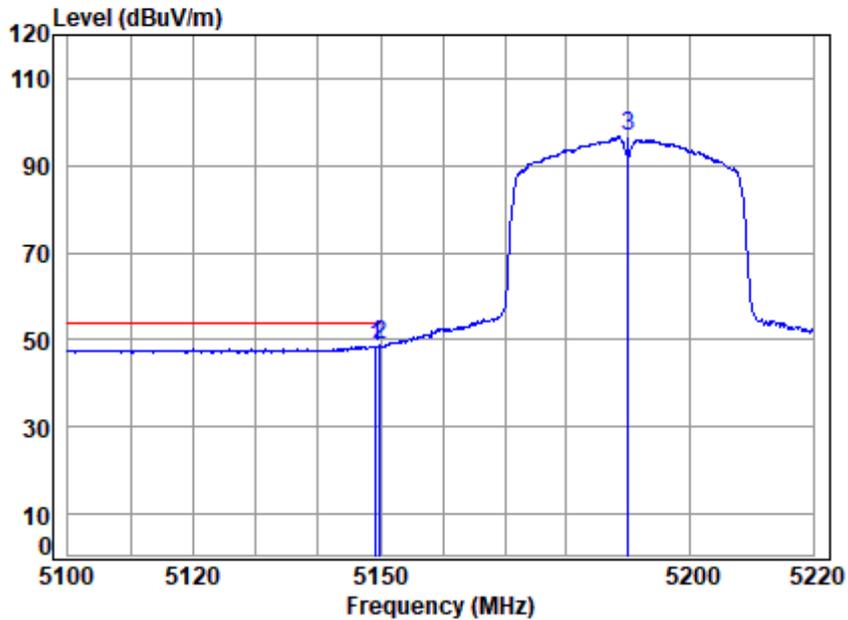
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5190 Band edge  
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.461	18.83	33.90	31.28	39.66	61.11	74.00	-12.89 peak
2	5149.980	18.83	33.90	31.28	38.44	59.89	74.00	-14.11 peak
3 p	5190.000	18.89	33.98	31.30	82.78	104.35	68.20	36.15 peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



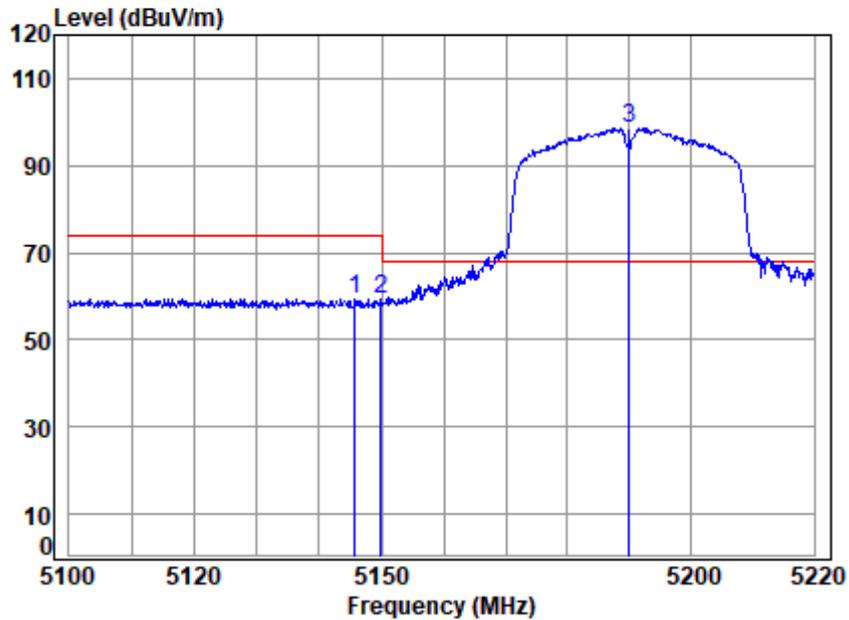
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5190 Band edge  
 : 5G WIFI 11N40

	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	5149.342	18.83	33.90	31.28	26.99	48.44	54.00	-5.56	Average
2 q	5149.980	18.83	33.90	31.28	27.45	48.90	54.00	-5.10	Average
3	5190.000	18.89	33.98	31.30	75.08	96.65	-----	-----	Average



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

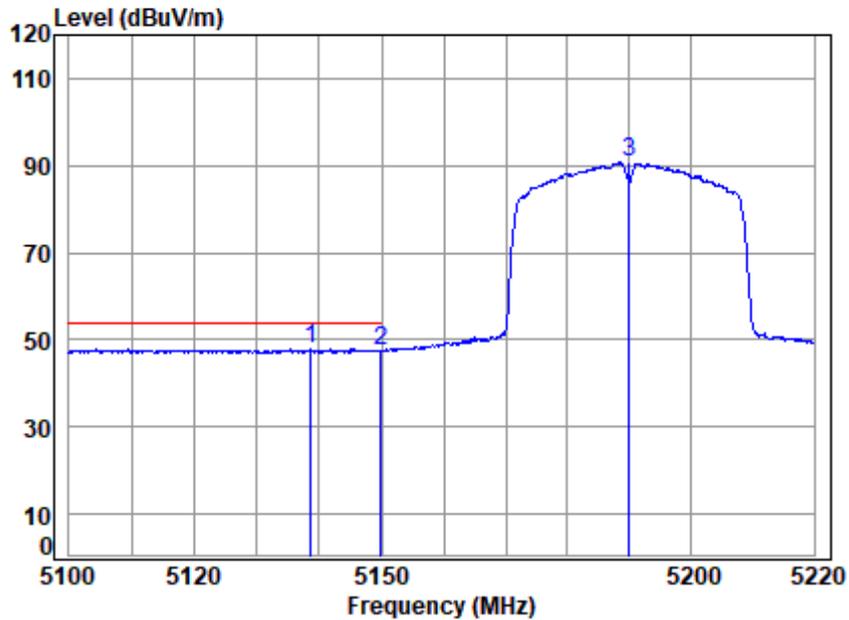


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5190 Band edge  
 : 5G WIFI 11N40

	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	5145.750	18.83	33.91	31.28	38.06	59.52	74.00	-14.48 Peak
2	5149.980	18.83	33.90	31.28	37.81	59.26	74.00	-14.74 Peak
3 p	5190.000	18.89	33.98	31.30	76.92	98.49	68.20	30.29 Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

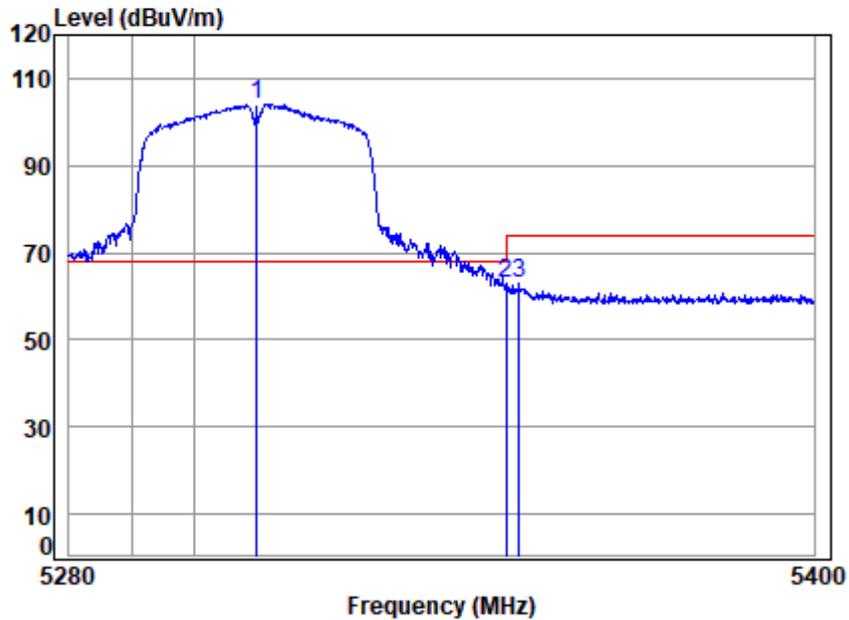


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5190 Band edge  
 : 5G WIFI 11N40

		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 q	5138.694	18.82	33.92	31.28	26.33	47.79	54.00	-6.21	Average
2	5149.980	18.83	33.90	31.28	26.20	47.65	54.00	-6.35	Average
3	5190.000	18.89	33.98	31.30	69.17	90.74	-----	-----	Average



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5310 Band edge  
 : 5G WIFI 11N40

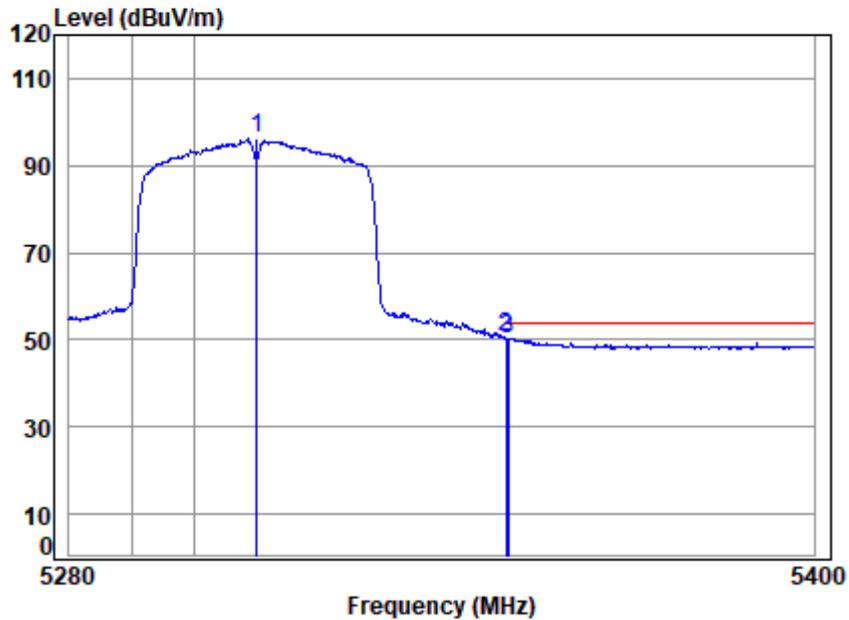
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5310.000	19.06	34.24	31.36	82.12	104.06	68.20	35.86 peak
2	5350.020	19.11	34.40	31.39	41.05	63.17	74.00	-10.83 peak
3	5352.157	19.11	34.41	31.39	40.83	62.96	74.00	-11.04 peak



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



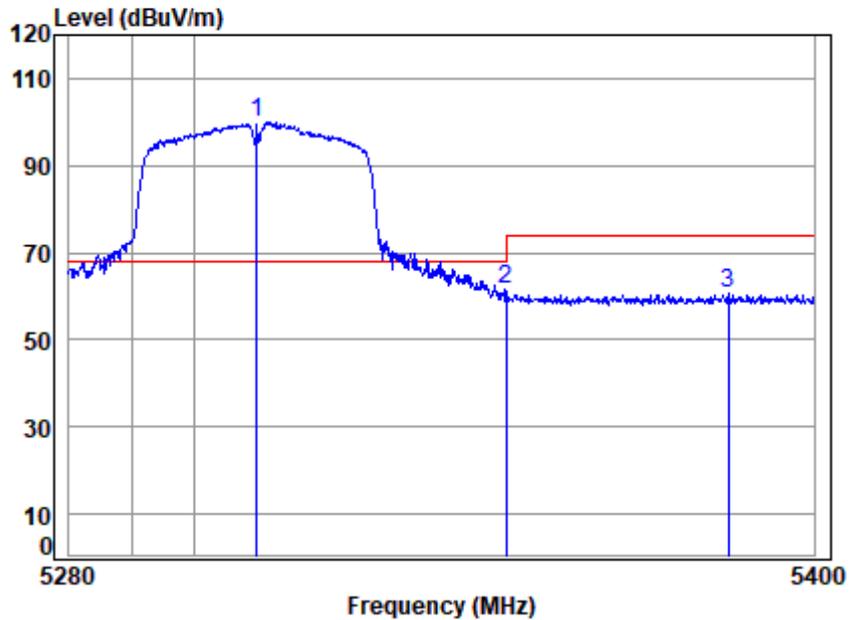
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5310 Band edge  
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	19.06	34.24	31.36	74.11	96.05	-----	Average
2 q	5350.020	19.11	34.40	31.39	28.52	50.64	54.00	-3.36 Average
3	5350.474	19.11	34.40	31.39	28.23	50.35	54.00	-3.65 Average



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5310 Band edge  
 : 5G WIFI 11N40

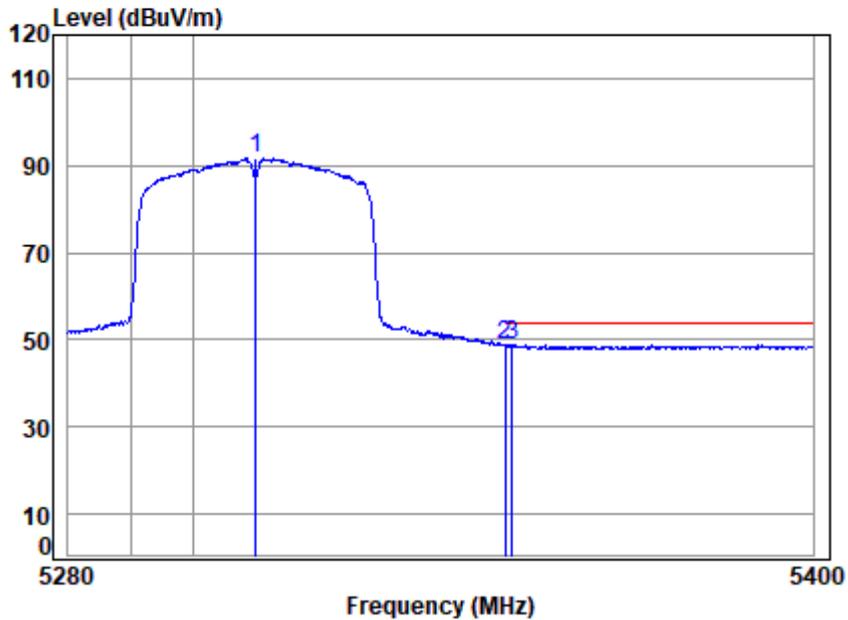
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5310.000	19.06	34.24	31.36	78.02	99.96	68.20	31.76	Peak
2 5350.020	19.11	34.40	31.39	39.26	61.38	74.00	-12.62	Peak
3 5386.063	19.16	34.54	31.40	38.28	60.58	74.00	-13.42	Peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5310 Band edge  
 : 5G WIFI 11N40

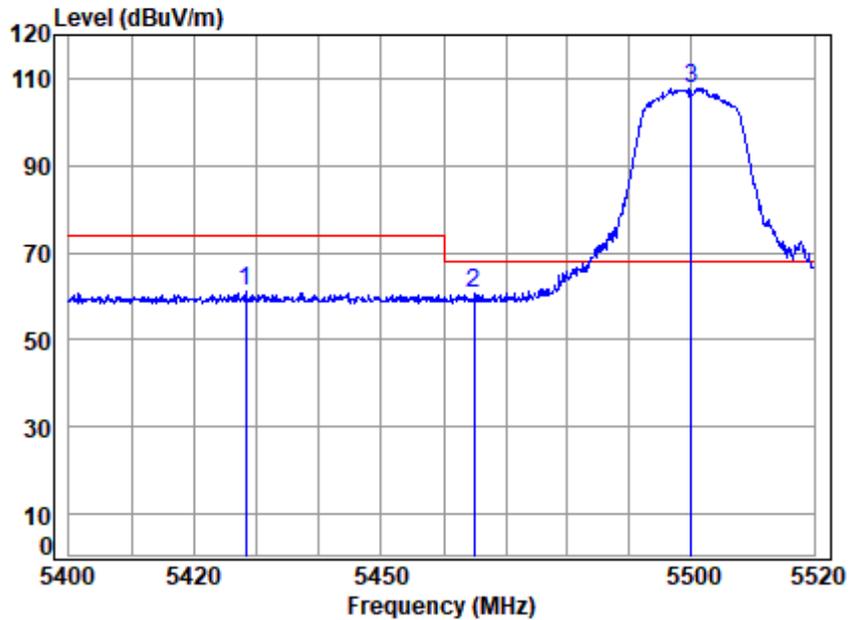
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	19.06	34.24	31.36	69.85	91.79	-----	Average
2 q	5350.020	19.11	34.40	31.39	26.69	48.81	54.00	-5.19 Average
3	5351.195	19.11	34.40	31.39	26.58	48.70	54.00	-5.30 Average



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



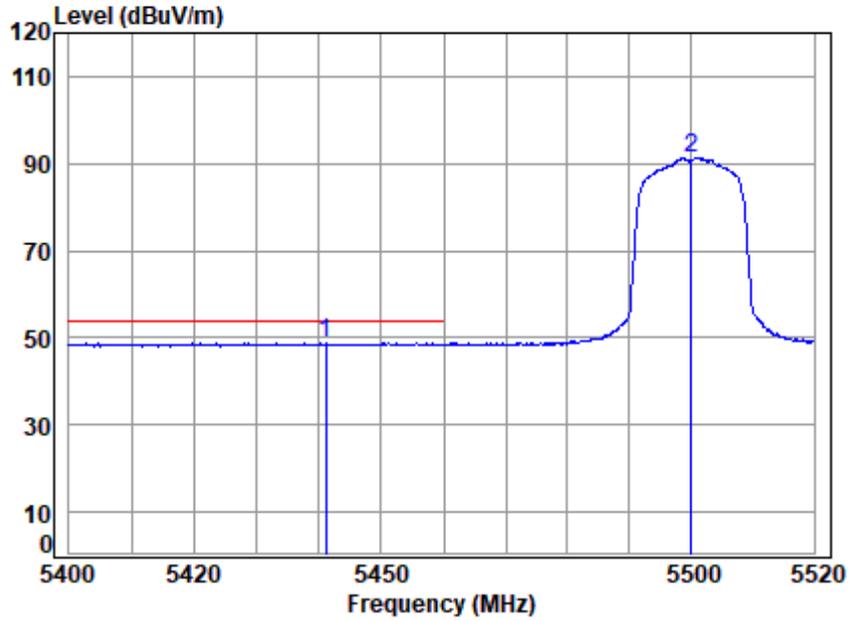
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11A

	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	5428.202	19.21	34.66	31.43	38.64	61.08	74.00	-12.92 peak
2	5464.953	19.26	34.64	31.44	38.21	60.67	68.20	-7.53 peak
3 p	5500.000	19.31	34.50	31.46	85.44	107.79	68.20	39.59 peak



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



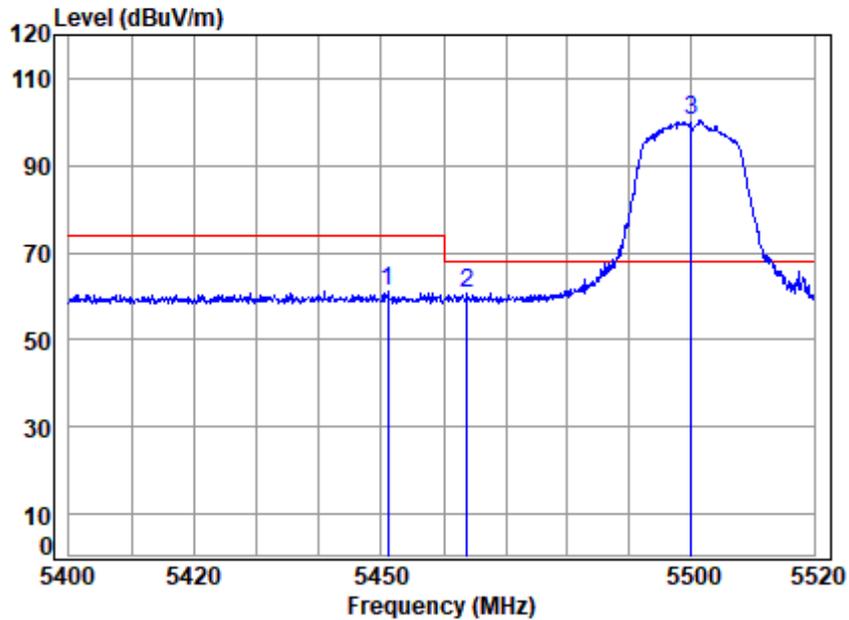
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11A

		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	q 5441.103	19.23	34.68	31.43	26.48	48.96	54.00	-5.04	Average
2	5500.000	19.31	34.50	31.46	68.94	91.29	-----	-----	Average



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



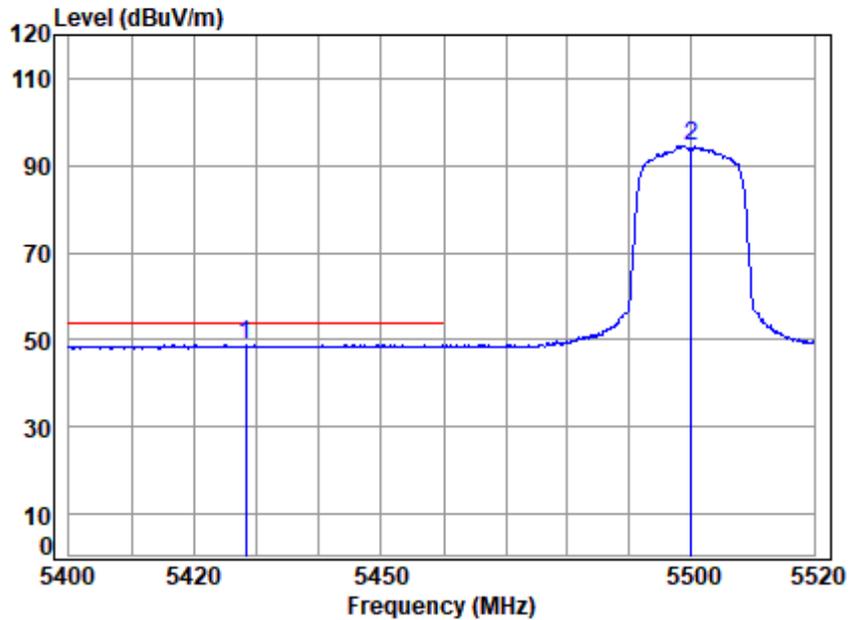
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11A

	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	5451.037	19.25	34.70	31.44	38.61	61.12	74.00	-12.88 Peak
2	5463.752	19.26	34.64	31.44	38.23	60.69	68.20	-7.51 peak
3 p	5500.000	19.31	34.50	31.46	78.12	100.47	68.20	32.27 Peak



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

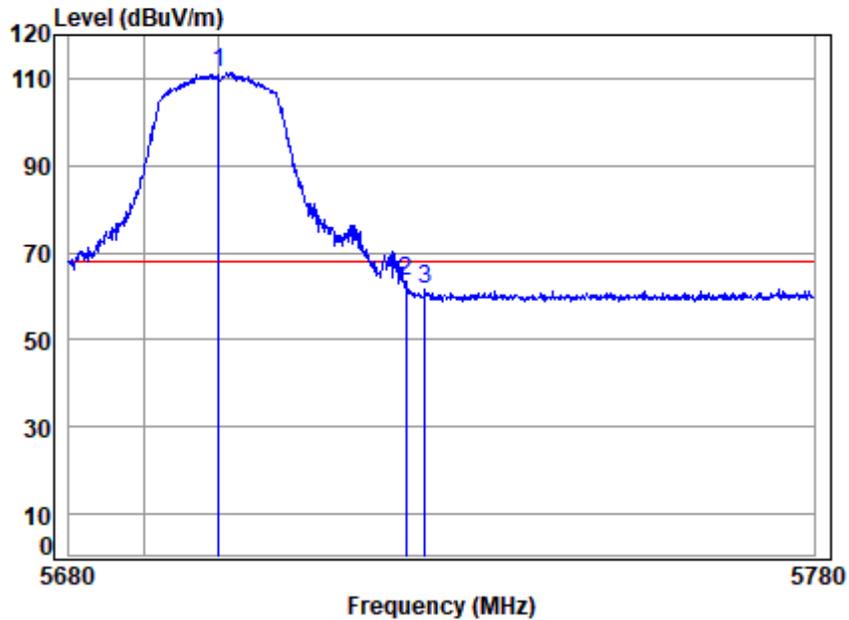


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5428.202	19.21	34.66	31.43	26.37	48.81	54.00	-5.19	Average
2 5500.000	19.31	34.50	31.46	72.28	94.63	-----	-----	Average



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



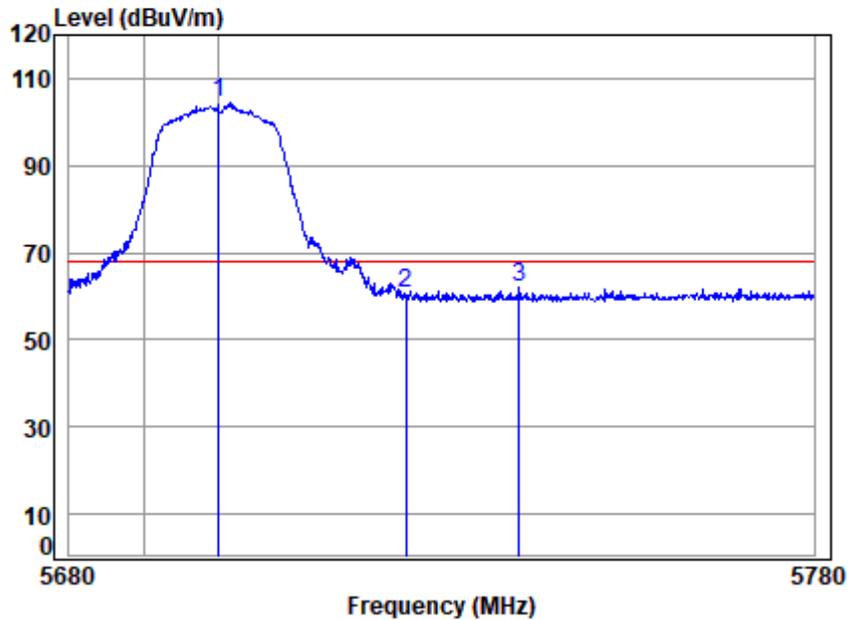
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 Band edge  
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	19.44	34.30	31.56	89.14	111.32	68.20	43.12 peak
2	5725.000	19.46	34.25	31.57	41.19	63.33	68.20	-4.87 peak
3	5727.583	19.46	34.24	31.57	39.32	61.45	68.20	-6.75 peak



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



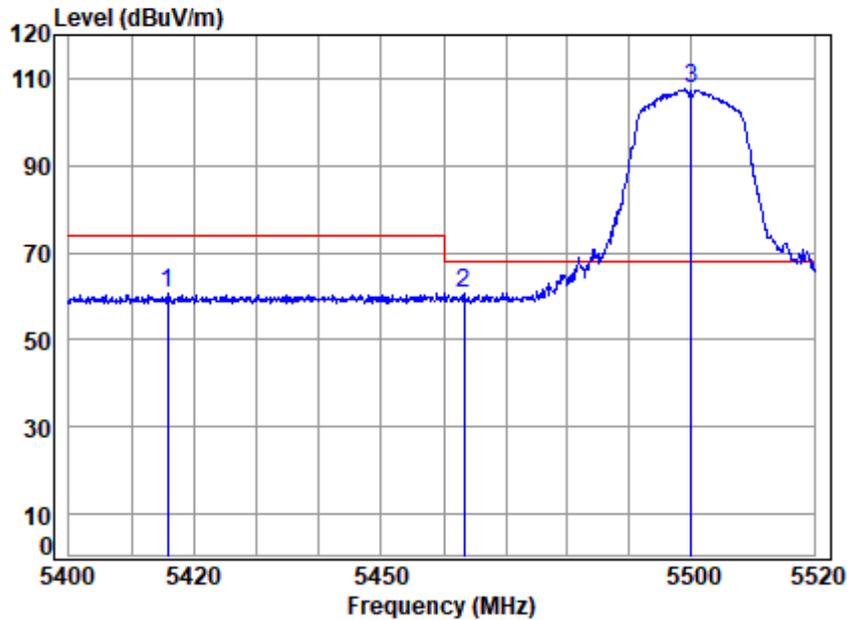
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 Band edge  
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	19.44	34.30	31.56	82.09	104.27	68.20	36.07 Peak
2	5725.000	19.46	34.25	31.57	38.56	60.70	68.20	-7.50 Peak
3	5740.191	19.47	34.22	31.58	39.73	61.84	68.20	-6.36 Peak



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



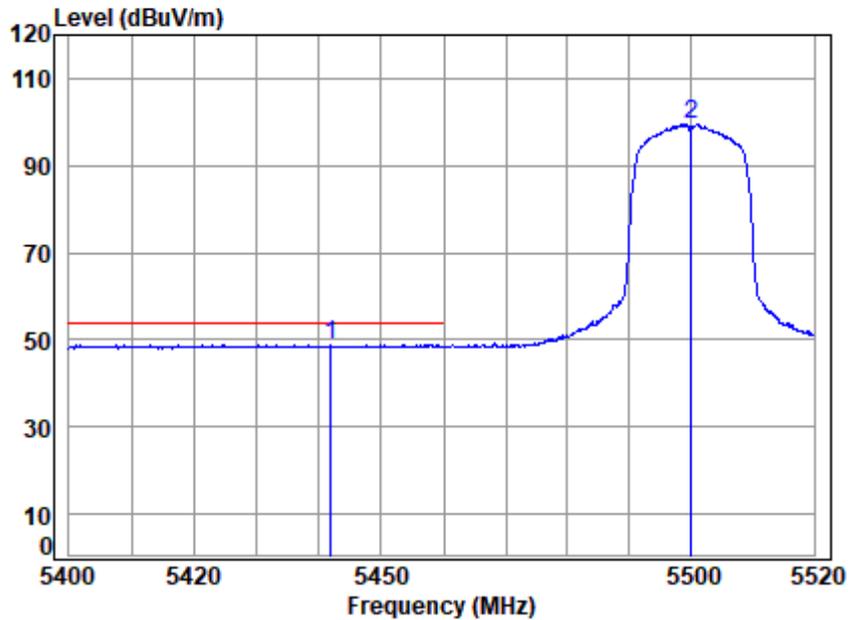
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11N20

	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	5415.689	19.20	34.63	31.42	38.41	60.82	74.00	-13.18 peak
2	5463.271	19.26	34.65	31.44	38.13	60.60	68.20	-7.60 peak
3 p	5500.000	19.31	34.50	31.46	85.17	107.52	68.20	39.32 peak



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



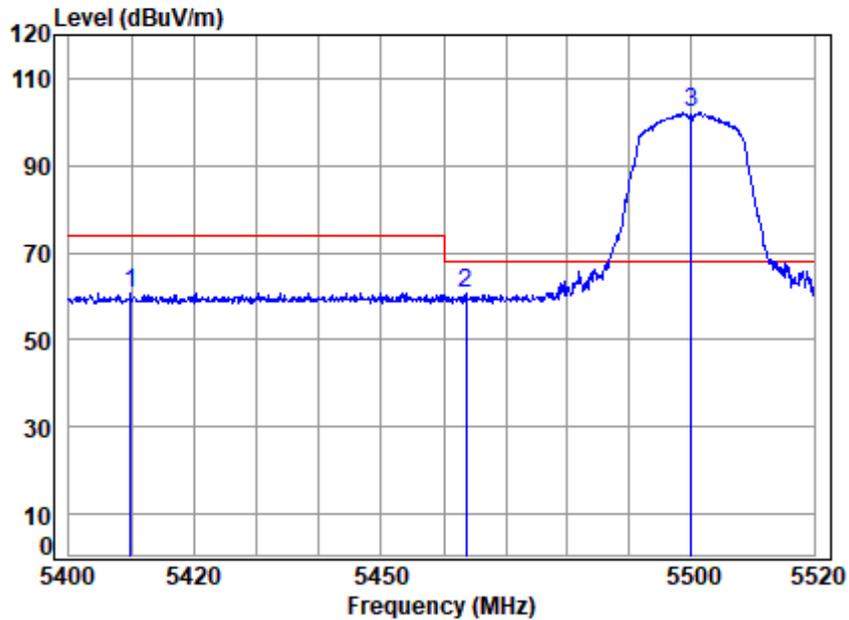
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11N20

		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	q 5441.939	19.23	34.68	31.43	26.41	48.89	54.00	-5.11	Average
2	5500.000	19.31	34.50	31.46	77.05	99.40	-----	-----	Average



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



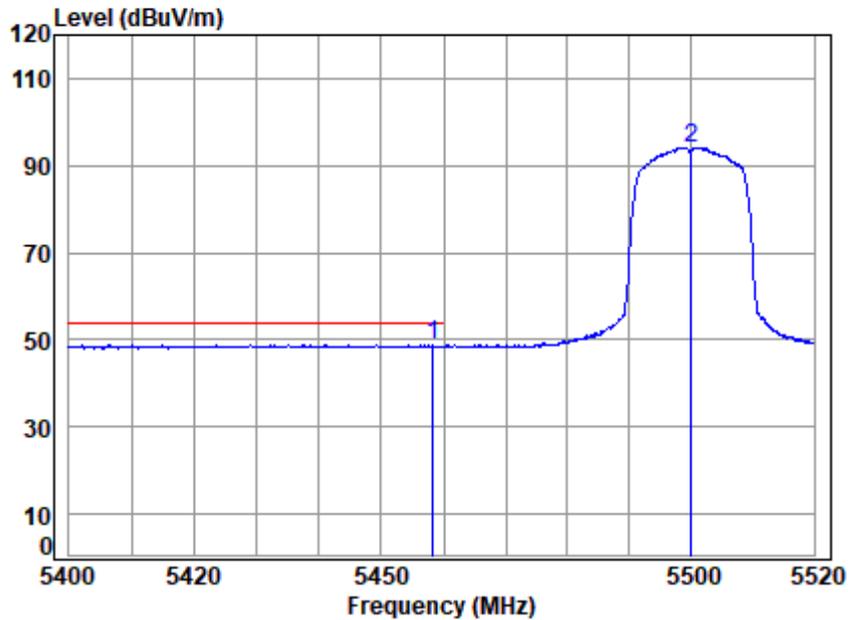
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11N20

	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	5409.860	19.19	34.62	31.42	38.49	60.88	74.00	-13.12	Peak
2	5463.632	19.26	34.65	31.44	38.14	60.61	68.20	-7.59	peak
3 p	5500.000	19.31	34.50	31.46	79.74	102.09	68.20	33.89	Peak



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

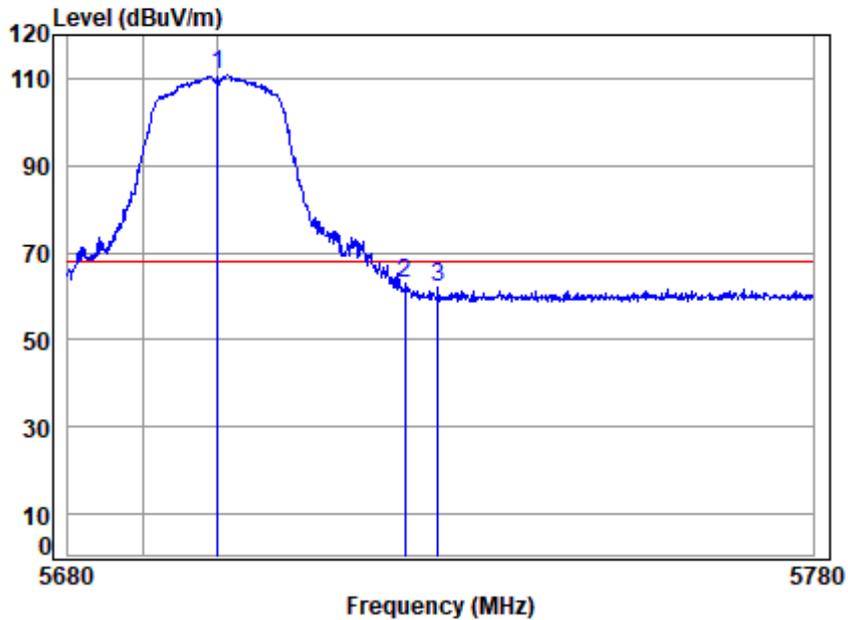


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5500 Band edge  
 : 5G WIFI 11N20

	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 q 5458.230	19.25	34.67	31.44	26.36	48.84	54.00	-5.16	Average
2 5500.000	19.31	34.50	31.46	71.79	94.14	-----	-----	Average



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



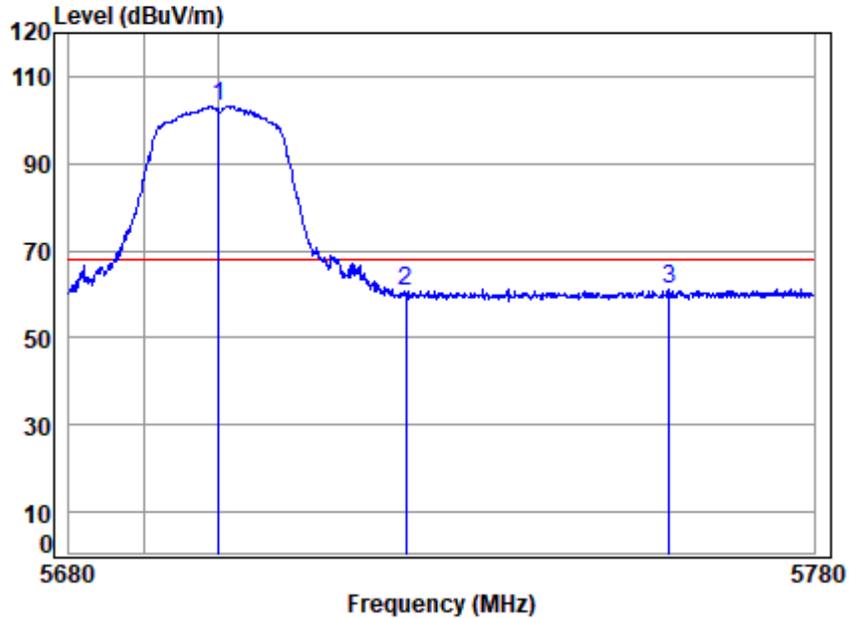
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	19.44	34.30	31.56	88.62	110.80	68.20	42.60 peak
2	5725.000	19.46	34.25	31.57	40.69	62.83	68.20	-5.37 peak
3	5729.482	19.46	34.24	31.57	39.75	61.88	68.20	-6.32 peak



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



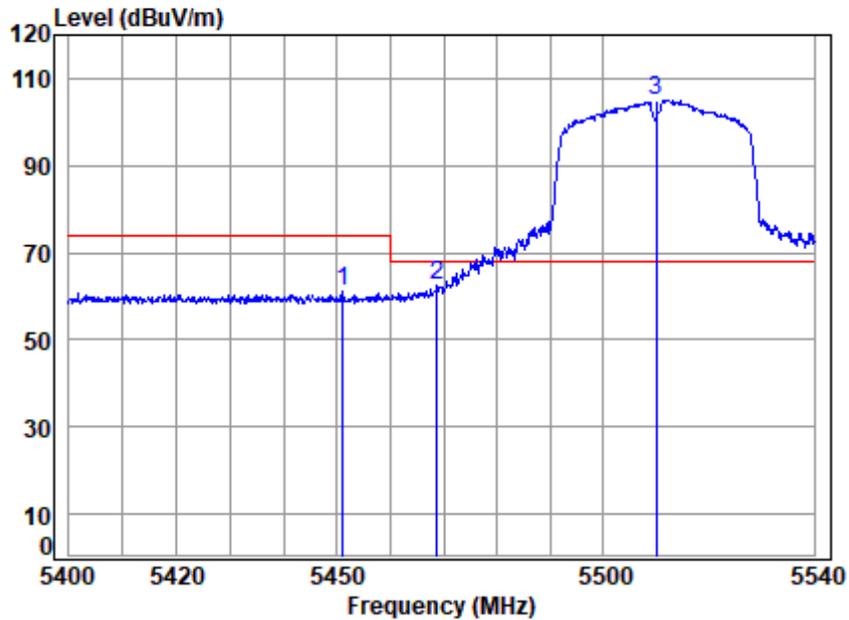
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5700 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	19.44	34.30	31.56	81.12	103.30	68.20	35.10 Peak
2	5725.000	19.46	34.25	31.57	38.71	60.85	68.20	-7.35 Peak
3	5760.463	19.48	34.22	31.59	39.15	61.26	68.20	-6.94 Peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5510 Band edge  
 : 5G WIFI 11N40

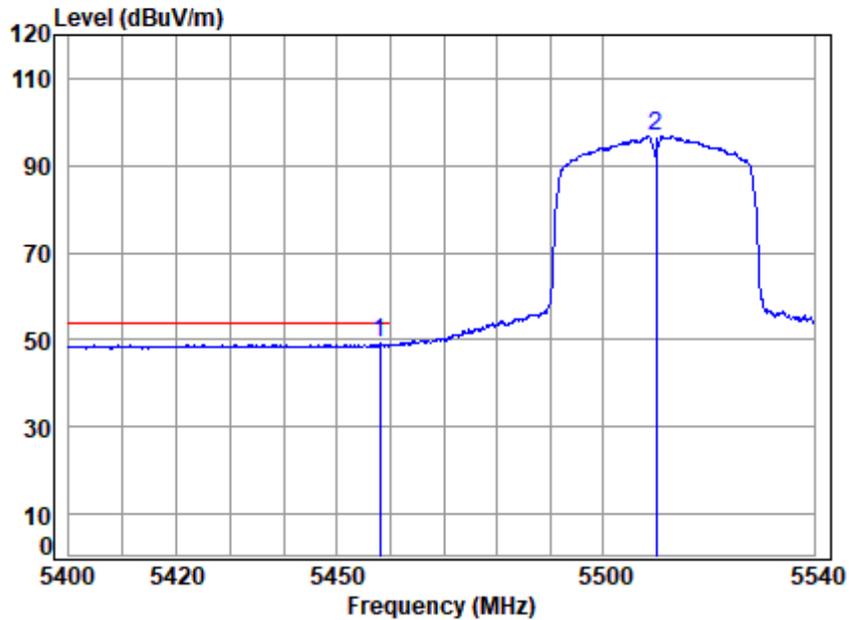
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	5450.964	19.25	34.70	31.44	38.53	61.04	74.00	-12.96 peak
2	5468.712	19.27	34.63	31.45	40.05	62.50	68.20	-5.70 peak
3 p	5510.000	19.32	34.54	31.47	82.63	105.02	68.20	36.82 peak



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



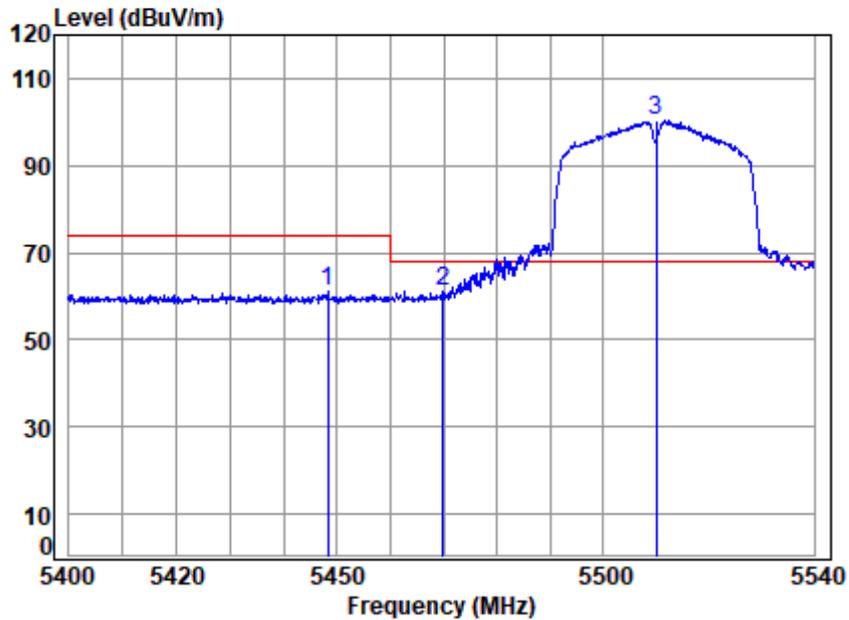
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5510 Band edge  
 : 5G WIFI 11N40

		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	q 5457.945	19.25	34.67	31.44	26.65	49.13	54.00	-4.87	Average
2	5510.000	19.32	34.54	31.47	74.42	96.81	-----	-----	Average



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5510 Band edge  
 : 5G WIFI 11N40

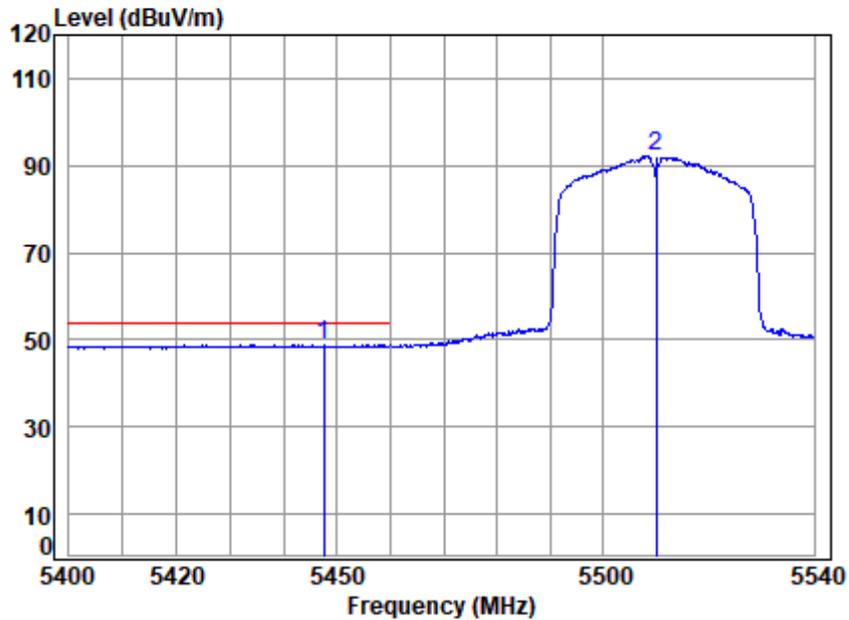
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5448.174	19.24	34.70	31.44	38.84	61.34	74.00	-12.66 Peak
2	5469.832	19.27	34.62	31.45	38.91	61.35	68.20	-6.85 peak
3 p	5510.000	19.32	34.54	31.47	77.86	100.25	68.20	32.05 Peak



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



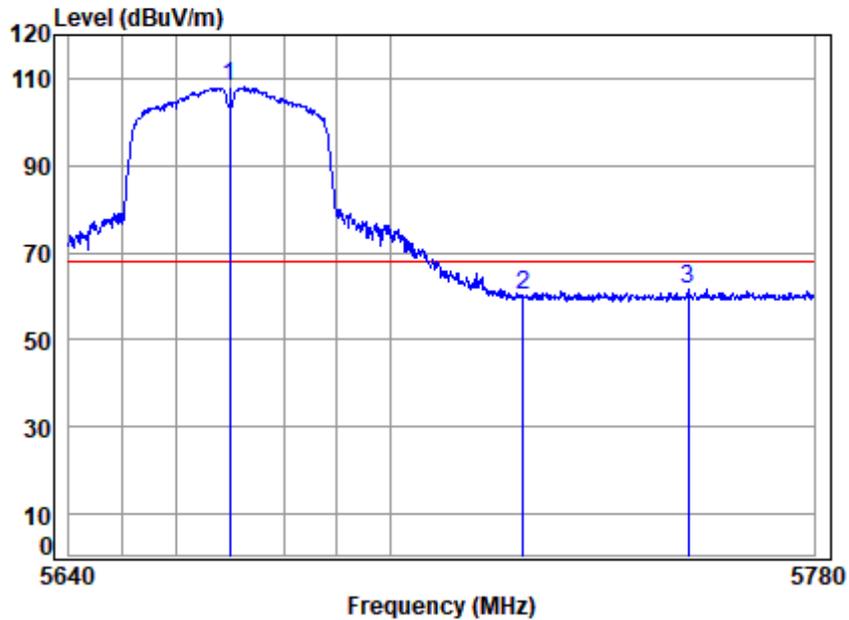
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5510 Band edge  
 : 5G WIFI 11N40

		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 q 5447.478	19.24	34.69	31.44	26.44	48.93	54.00	-5.07	Average	
2 5510.000	19.32	34.54	31.47	69.96	92.35	-----	-----	Average	



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



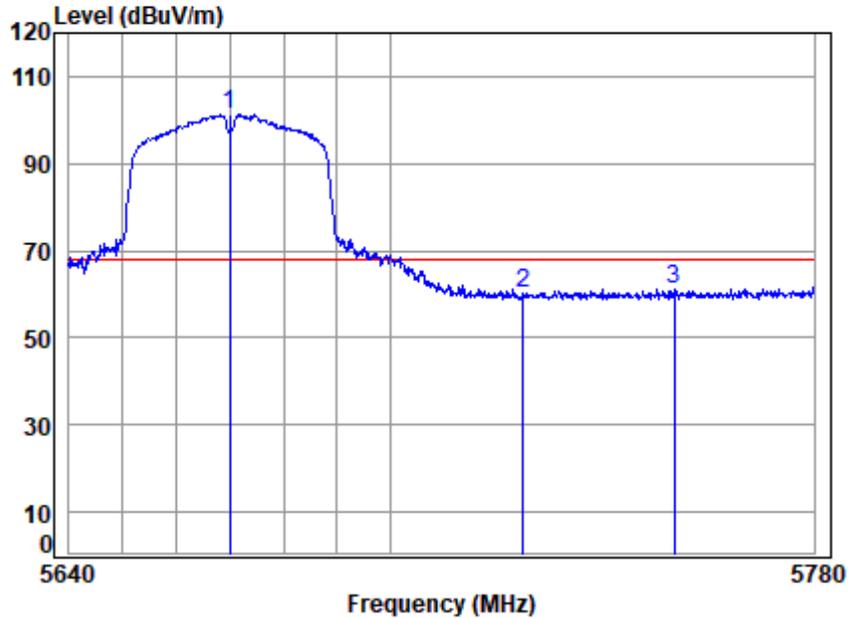
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5670 Band edge  
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5670.000	19.42	34.36	31.54	85.69	107.93	68.20	39.73 peak
2	5725.000	19.46	34.25	31.57	38.20	60.34	68.20	-7.86 peak
3	5756.098	19.48	34.21	31.59	39.49	61.59	68.20	-6.61 peak



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



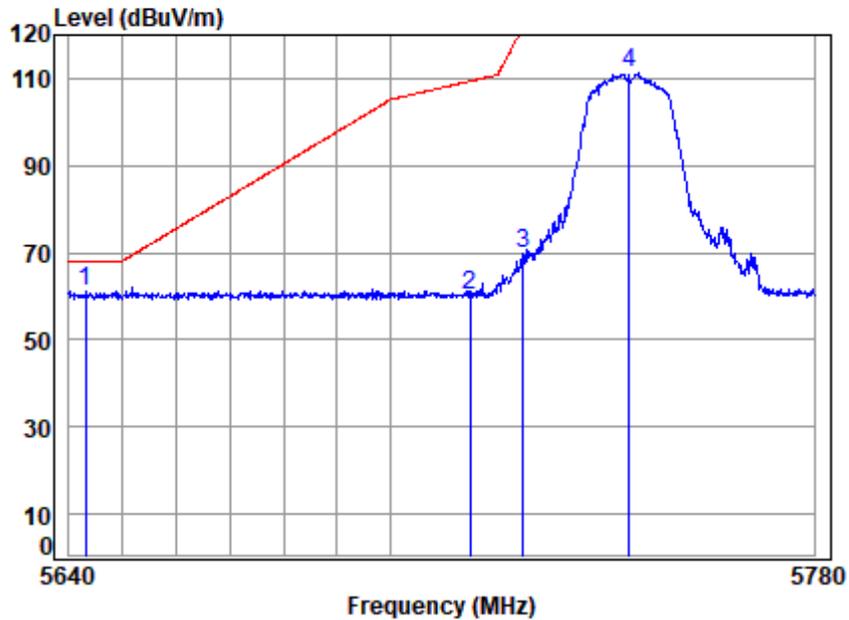
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5670 Band edge  
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5670.000	19.42	34.36	31.54	78.99	101.23	68.20	33.03 Peak
2	5725.000	19.46	34.25	31.57	37.87	60.01	68.20	-8.19 Peak
3	5753.417	19.48	34.21	31.58	39.14	61.25	68.20	-6.95 Peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11A

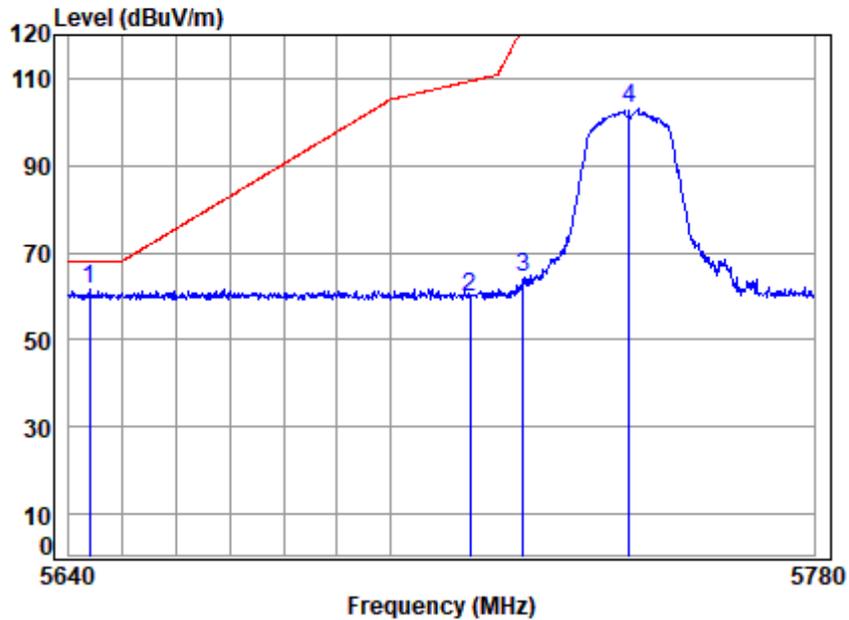
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5643.043	19.40	34.44	31.53	38.84	61.15	68.20	-7.05 peak
2	5715.000	19.45	34.27	31.57	38.19	60.34	109.40	-49.06 peak
3	5725.000	19.46	34.25	31.57	47.53	69.67	122.20	-52.53 peak
4	5745.000	19.47	34.21	31.58	89.22	111.32	-----	----- peak



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 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:802.11a; Bandwidth:20MHz; Channel:Low



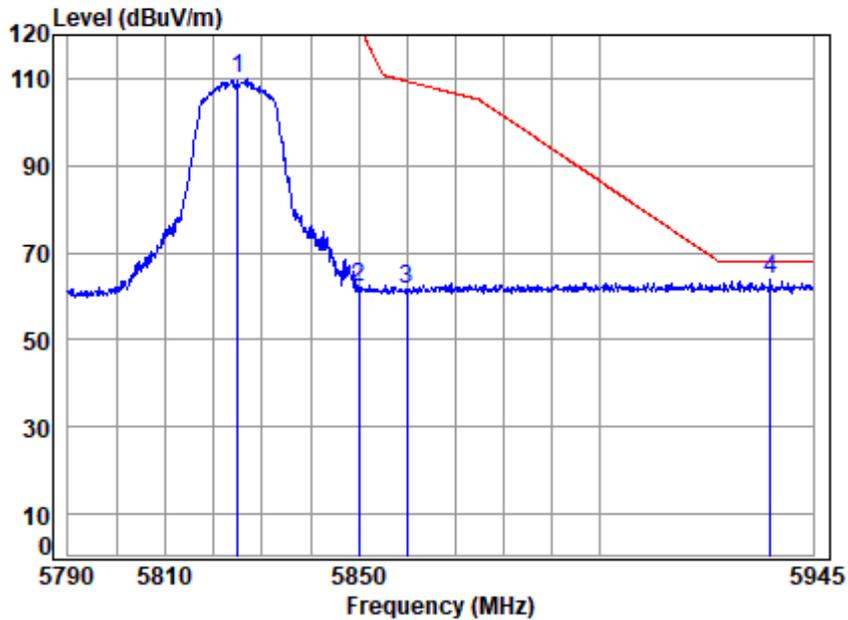
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5643.874	19.40	34.44	31.53	39.26	61.57	68.20	-6.63 peak
2	5715.000	19.45	34.27	31.57	37.78	59.93	109.40	-49.47 peak
3	5725.000	19.46	34.25	31.57	42.13	64.27	122.20	-57.93 peak
4	5745.000	19.47	34.21	31.58	80.96	103.06	-----	----- peak



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



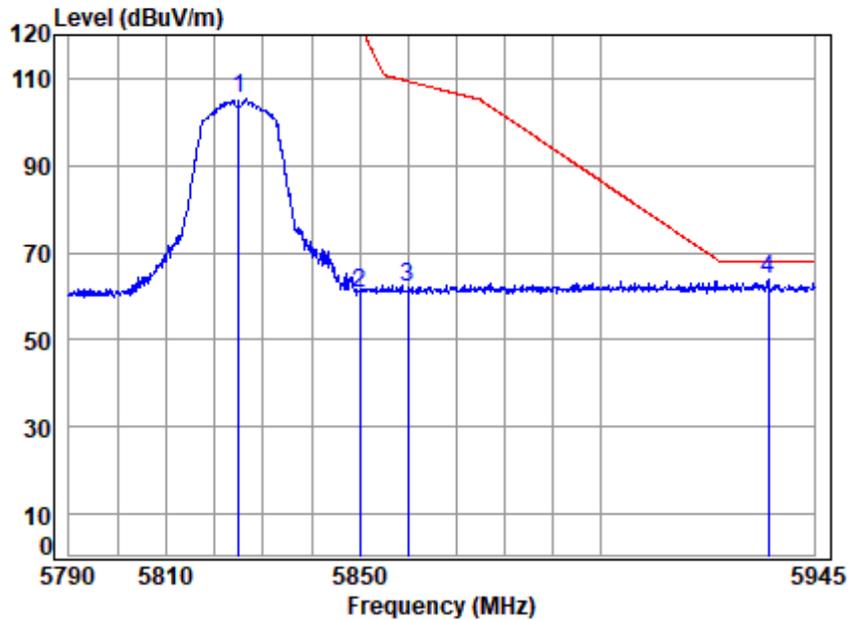
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	31.62	87.63	109.88	-----	-----	peak
2	5850.000	19.54	34.40	31.63	39.59	61.90	122.20	-60.30	peak
3	5860.000	19.54	34.44	31.64	39.18	61.52	109.40	-47.88	peak
4 p	5936.055	19.59	34.67	31.67	41.33	63.92	68.20	-4.28	peak



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



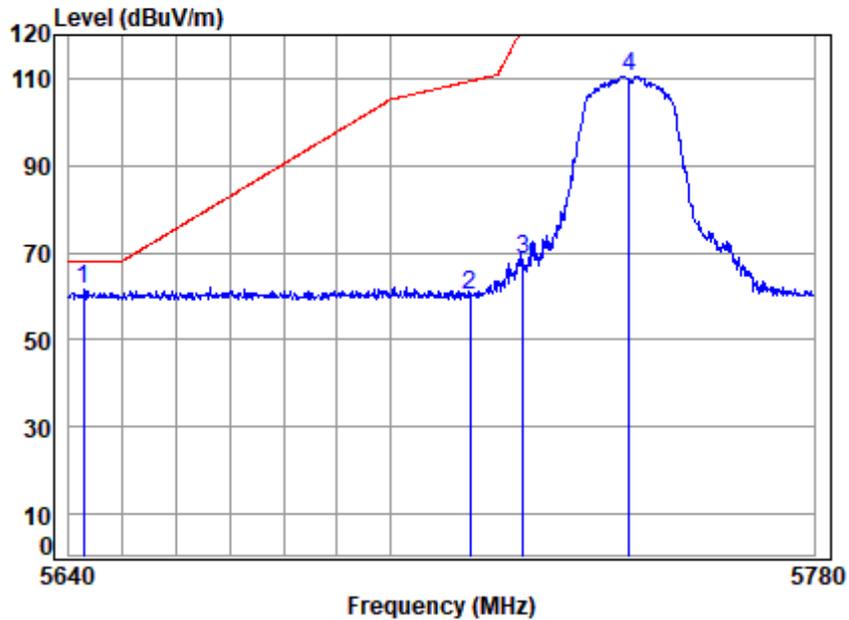
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	31.62	83.08	105.33	-----	-----	peak
2	5850.000	19.54	34.40	31.63	38.59	60.90	122.20	-61.30	peak
3	5860.000	19.54	34.44	31.64	39.52	61.86	109.40	-47.54	peak
4 p	5935.427	19.59	34.67	31.67	41.25	63.84	68.20	-4.36	peak



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



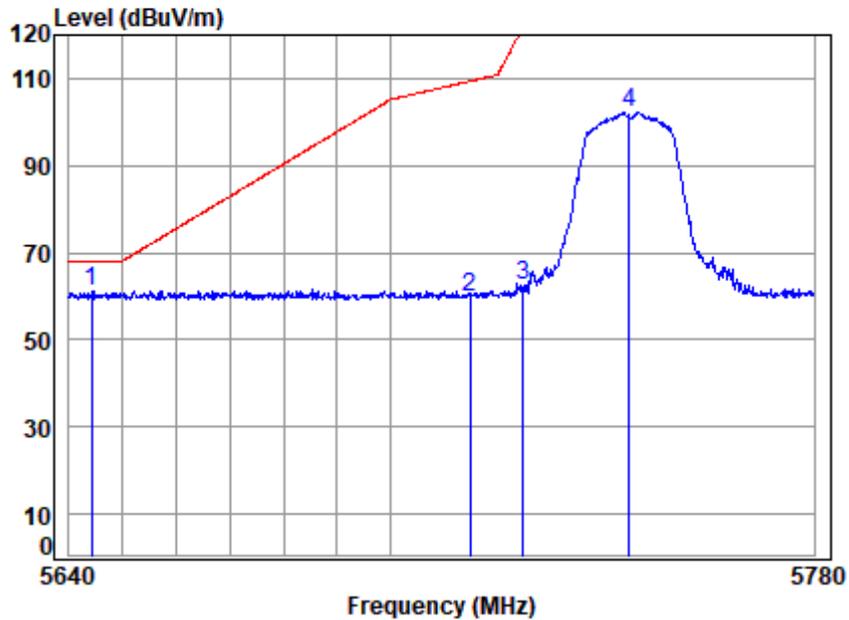
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5642.767	19.40	34.44	31.53	39.10	61.41	68.20	-6.79 peak
2	5715.000	19.45	34.27	31.57	38.13	60.28	109.40	-49.12 peak
3	5725.000	19.46	34.25	31.57	46.28	68.42	122.20	-53.78 peak
4	5745.000	19.47	34.21	31.58	88.53	110.63	-----	----- peak



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



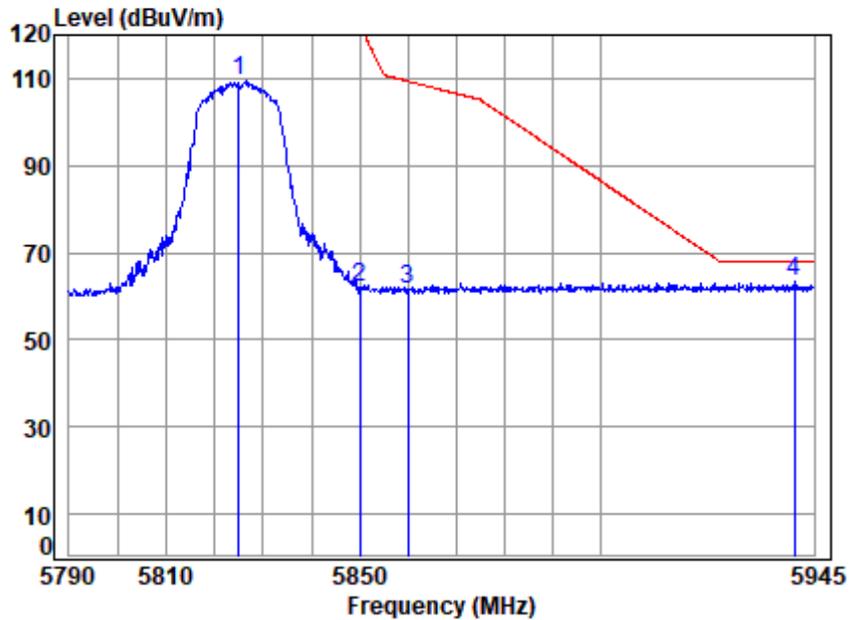
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5644.150	19.41	34.44	31.53	39.01	61.33	68.20	-6.87 peak
2	5715.000	19.45	34.27	31.57	37.71	59.86	109.40	-49.54 peak
3	5725.000	19.46	34.25	31.57	40.21	62.35	122.20	-59.85 peak
4	5745.000	19.47	34.21	31.58	80.06	102.16	-----	----- peak



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



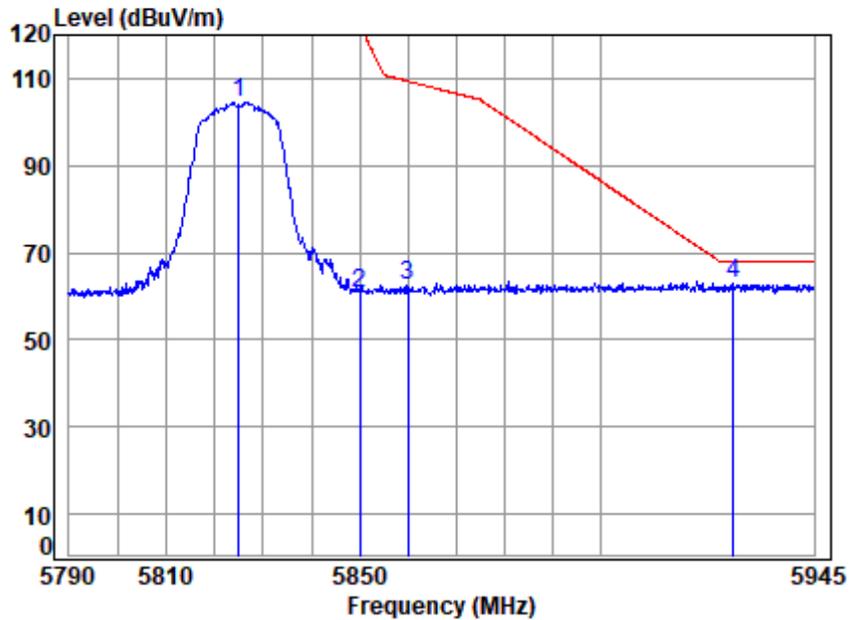
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	31.62	87.11	109.36	-----	-----	peak
2	5850.000	19.54	34.40	31.63	39.88	62.19	122.20	-60.01	peak
3	5860.000	19.54	34.44	31.64	39.39	61.73	109.40	-47.67	peak
4 p	5940.761	19.59	34.68	31.67	40.73	63.33	68.20	-4.87	peak



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



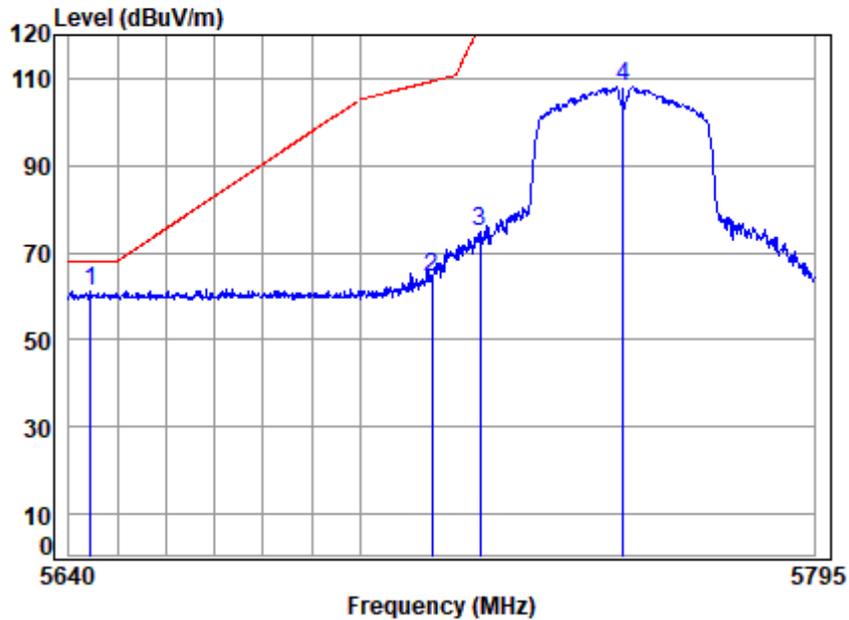
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	31.62	82.44	104.69	-----	-----	peak
2	5850.000	19.54	34.40	31.63	38.59	60.90	122.20	-61.30	peak
3	5860.000	19.54	34.44	31.64	40.28	62.62	109.40	-46.78	peak
4 p	5928.062	19.59	34.66	31.67	40.28	62.86	68.20	-5.34	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5755 Band edge  
 : 5G WIFI 11N40

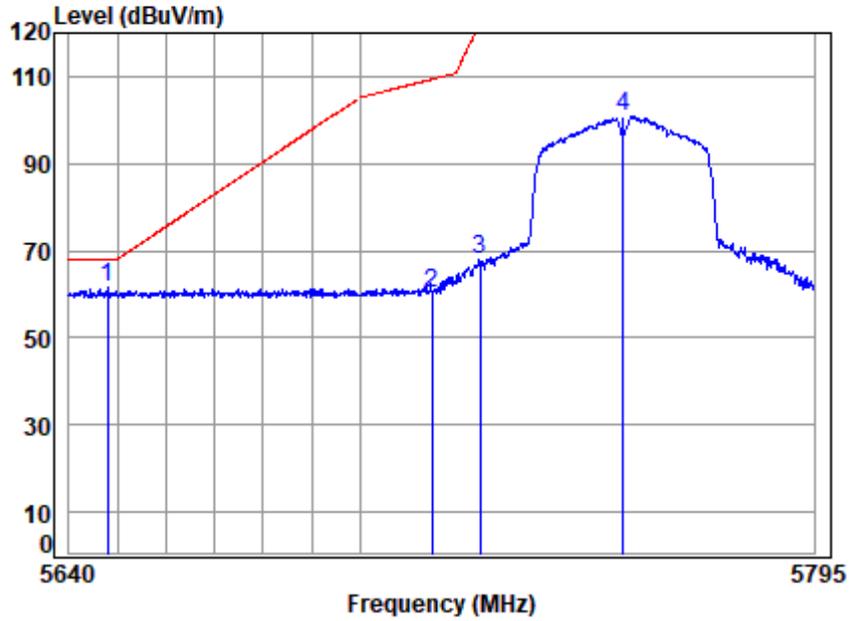
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5644.436	19.41	34.43	31.53	38.84	61.15	68.20	-7.05 peak
2	5715.000	19.45	34.27	31.57	42.13	64.28	109.40	-45.12 peak
3	5725.000	19.46	34.25	31.57	52.56	74.70	122.20	-47.50 peak
4	5755.000	19.48	34.21	31.59	85.89	107.99	-----	----- peak



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



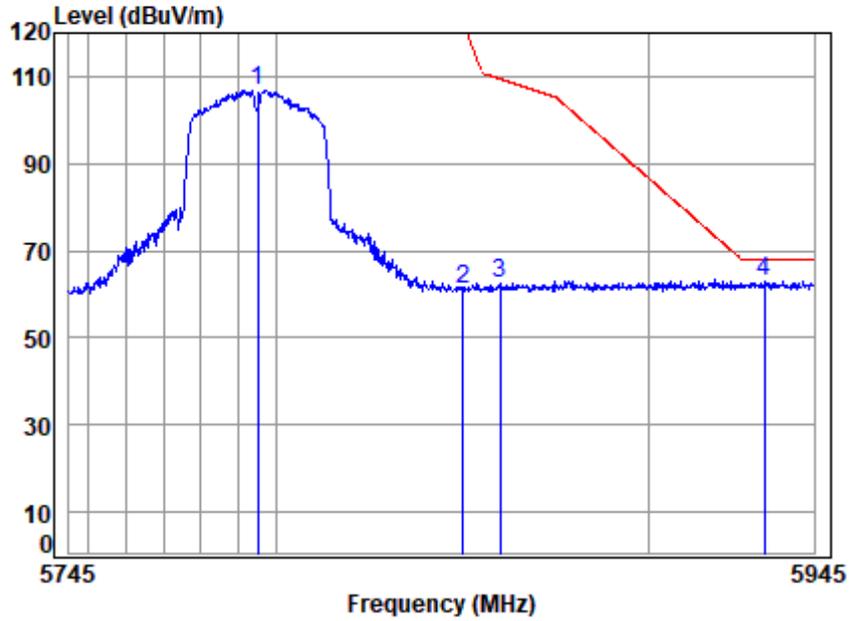
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5755 Band edge  
 : 5G WIFI 11N40

		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 p 5647.957	19.41	34.41	31.53	39.43	61.72	68.20	-6.48	peak
2 5715.000	19.45	34.27	31.57	38.25	60.40	109.40	-49.00	peak
3 5725.000	19.46	34.25	31.57	45.81	67.95	122.20	-54.25	peak
4 5755.000	19.48	34.21	31.59	78.74	100.84	-----	-----	peak



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



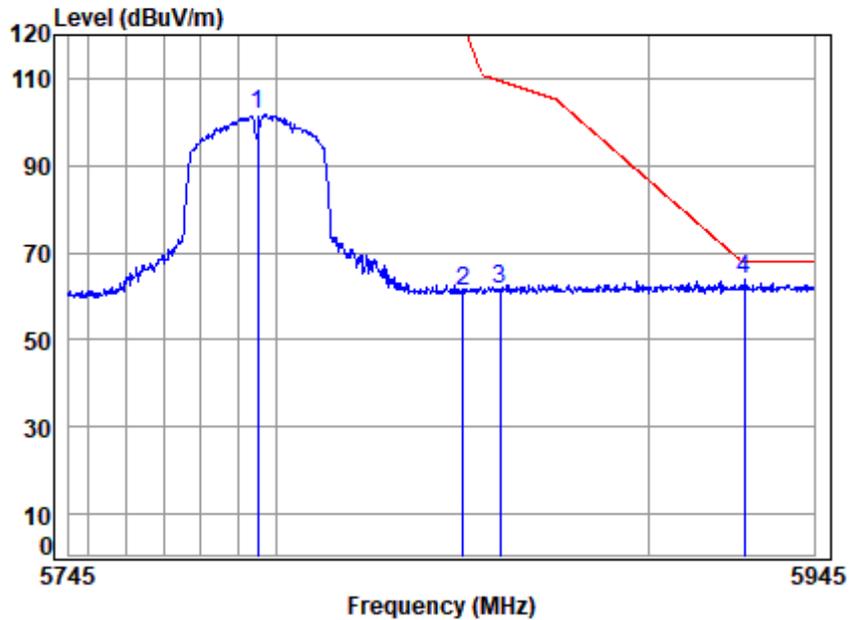
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04163AT\04164AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11N40

	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	5795.000	19.50	34.29	31.60	84.66	106.85	-----	----- peak
2	5850.000	19.54	34.40	31.63	38.87	61.18	122.20	-61.02 peak
3	5860.000	19.54	34.44	31.64	40.31	62.65	109.40	-46.75 peak
4 p	5931.385	19.59	34.66	31.67	40.38	62.96	68.20	-5.24 peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04163AT\04164AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.50	34.29	31.60	79.52	101.71	-----	-----	peak
2	5850.000	19.54	34.40	31.63	38.83	61.14	122.20	-61.06	peak
3	5860.000	19.54	34.44	31.64	39.32	61.66	109.40	-47.74	peak
4 p	5925.907	19.58	34.65	31.67	41.25	63.81	68.20	-4.39	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.





### 7.6.4 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.

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**7.7 Duty Cycle**

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

**7.7.1 E.U.T. Operation**

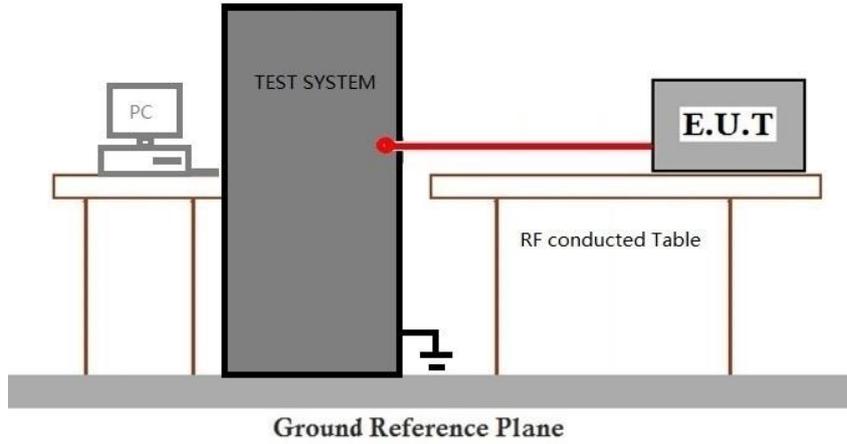
Operating Environment:  
 Temperature: 24.1 °C Humidity: 35.1 % RH Atmospheric Pressure: 1020 mbar

**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	06	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 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, Only the data of worst case is recorded in the report.



### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

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**7.8 99% Bandwidth**

Test Requirement N/A  
 Test Method: KDB 789033 D02 II D

**7.8.1 E.U.T. Operation**

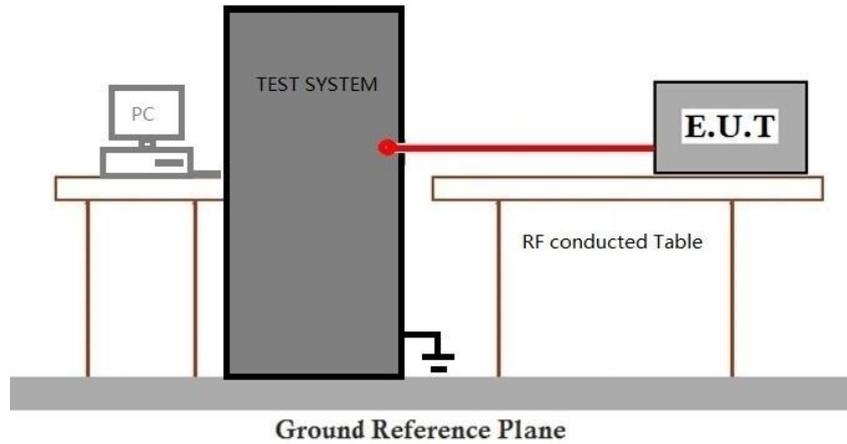
Operating Environment:  
 Temperature: 24.1 °C Humidity: 35.1 % RH Atmospheric Pressure: 1020 mbar

**7.8.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	06	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 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, Only the data of worst case is recorded in the report.



### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



**7.9 26dB Emission bandwidth**

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)  
 Test Method: KDB 789033 D02 II C 1

**7.9.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 24.1 °C Humidity: 35.1 % RH Atmospheric Pressure: 1020 mbar

**7.9.2 Test Mode Description**

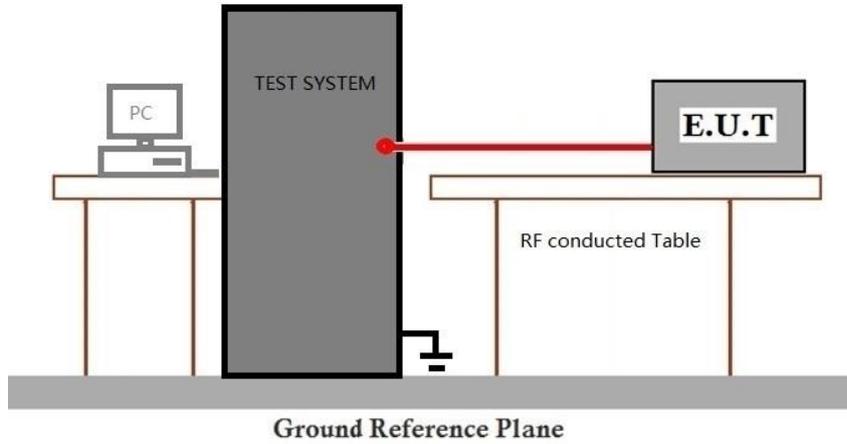
Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, 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: KDB 789033 D02 II C 2

Limit:

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

**7.10.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.1 °C Humidity: 35.1 % RH Atmospheric Pressure: 1020 mbar

**7.10.2 Test Mode Description**

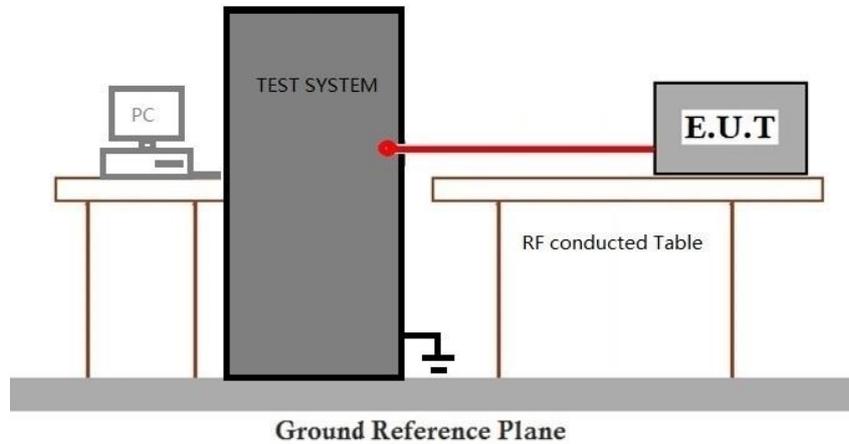
Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



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### 7.10.3 Test Setup Diagram



### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



**7.11 Peak Power spectrum density**

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

Test Method: KDB 789033 D02 II F

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: 24.1 °C Humidity: 35.1 % RH Atmospheric Pressure: 1020 mbar

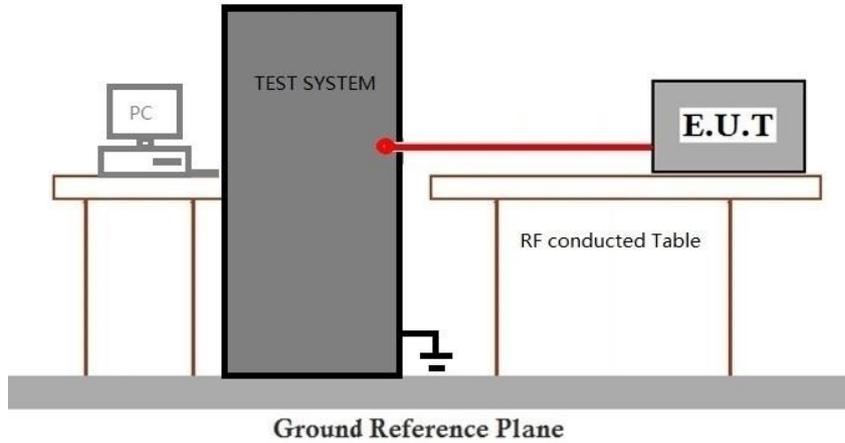
**7.11.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	06	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 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, 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



**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**

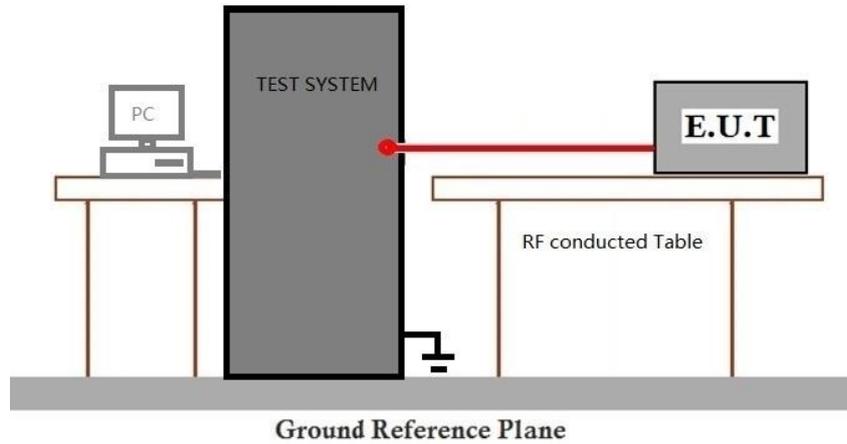
Operating Environment:  
 Temperature: 24.1 °C Humidity: 35.1 % RH Atmospheric Pressure: 1020 mbar

**7.12.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	06	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 20/40, Only the data of worst case is recorded in the report.
Final test	07	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 20/40, Only the data of worst case is recorded in the report.
Final test	08	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 20/40, Only the data of worst case is recorded in the report.
Final test	09	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 20/40, Only the data of worst case is recorded in the report.



### 7.12.3 Test Setup Diagram



### 7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details



**7.13 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.



### 7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

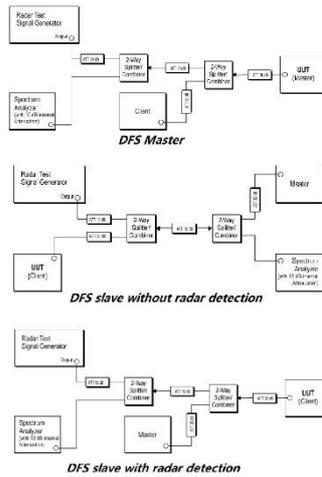
Humidity: 30.2 % RH

Atmospheric Pressure: 1020 mbar

### 7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	Normal operating_Keep the EUT communication with the companion device.

### 7.13.3 Test Setup Diagram



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### 7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (0.3ms) = S (12000ms) / B (4000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C (ms) = N \times Dwell (0.3ms)$ ; 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

Refer to Setup Photo for SZCR2411004163AT

### 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2411004163AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.361	1.413	96.32	0.16	0.03
		5200	1.361	1.412	96.39	0.16	0.03
		5240	1.361	1.412	96.39	0.16	0.03
		5260	1.360	1.412	96.32	0.16	0.03
		5300	1.361	1.412	96.39	0.16	0.03
		5320	1.361	1.412	96.39	0.16	0.03
		5500	1.360	1.412	96.32	0.16	0.03
		5580	1.361	1.412	96.39	0.16	0.03
		5700	1.360	1.412	96.32	0.16	0.03
		5745	1.360	1.412	96.32	0.16	0.03
		5785	1.361	1.412	96.39	0.16	0.03
5825	1.361	1.412	96.39	0.16	0.03		
802.11n (HT20)	SISO	5180	1.272	1.324	96.07	0.17	0.03
		5200	0.633	0.684	92.54	0.34	0.04
		5240	0.633	0.684	92.54	0.34	0.03
		5260	1.273	1.324	96.15	0.17	0.03
		5300	1.273	1.324	96.15	0.17	0.04
		5320	1.273	1.324	96.15	0.17	0.04
		5500	1.273	1.324	96.15	0.17	0.00
		5580	1.274	1.325	96.15	0.17	0.00
		5700	1.273	1.324	96.15	0.17	0.04
		5745	1.273	1.324	96.15	0.17	0.04
		5785	1.272	1.324	96.07	0.17	0.04
5825	1.272	1.324	96.07	0.17	0.03		
802.11n (HT40)	SISO	5190	0.633	0.684	92.54	0.34	0.03
		5230	0.633	0.684	92.54	0.34	0.06
		5270	0.633	0.684	92.54	0.34	0.03
		5310	0.633	0.684	92.54	0.34	0.03



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

SZEMC-TRF-01 Rev. A/1

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		5510	0.633	0.684	92.54	0.34	0.04
		5550	0.633	0.684	92.54	0.34	0.03
		5670	0.633	0.684	92.54	0.34	0.04
		5755	0.633	0.685	92.41	0.34	0.03
		5795	0.633	0.685	92.41	0.34	0.03

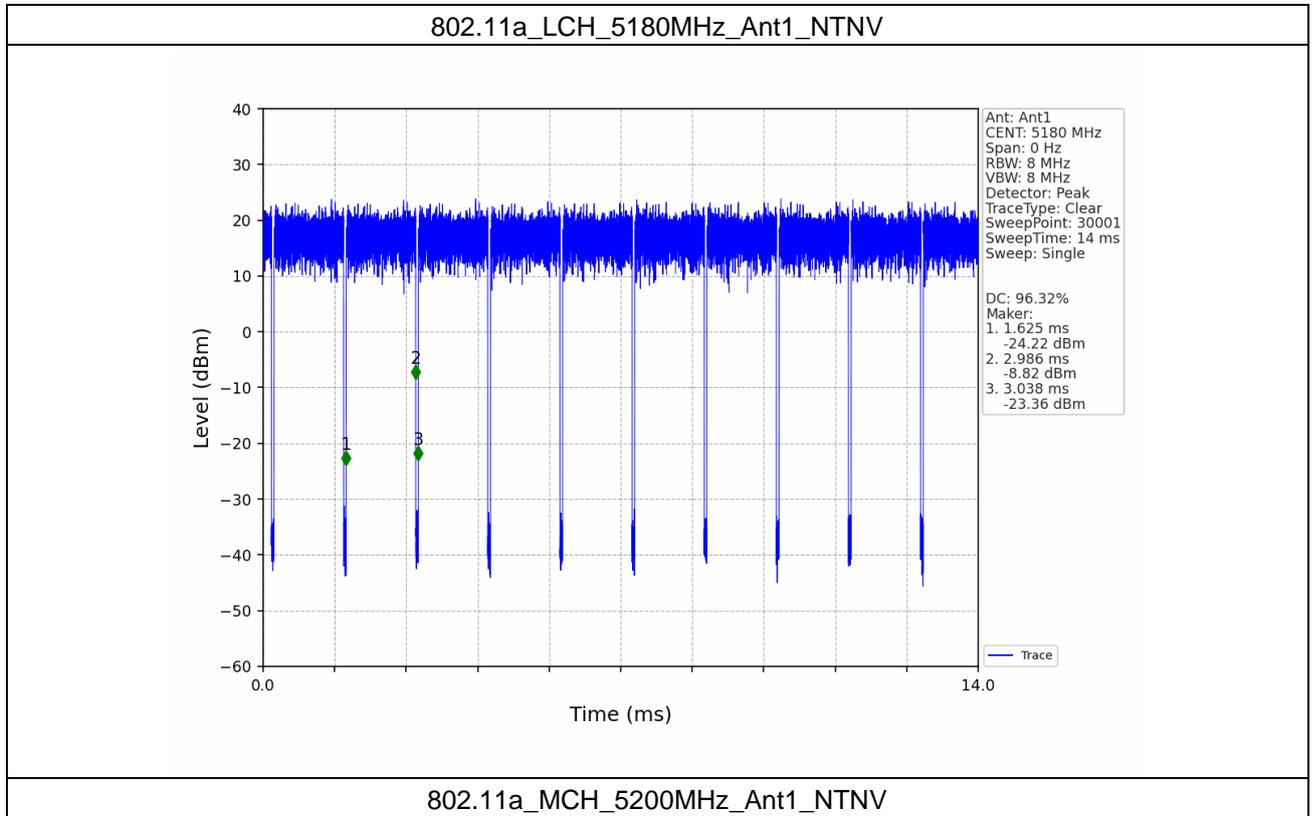


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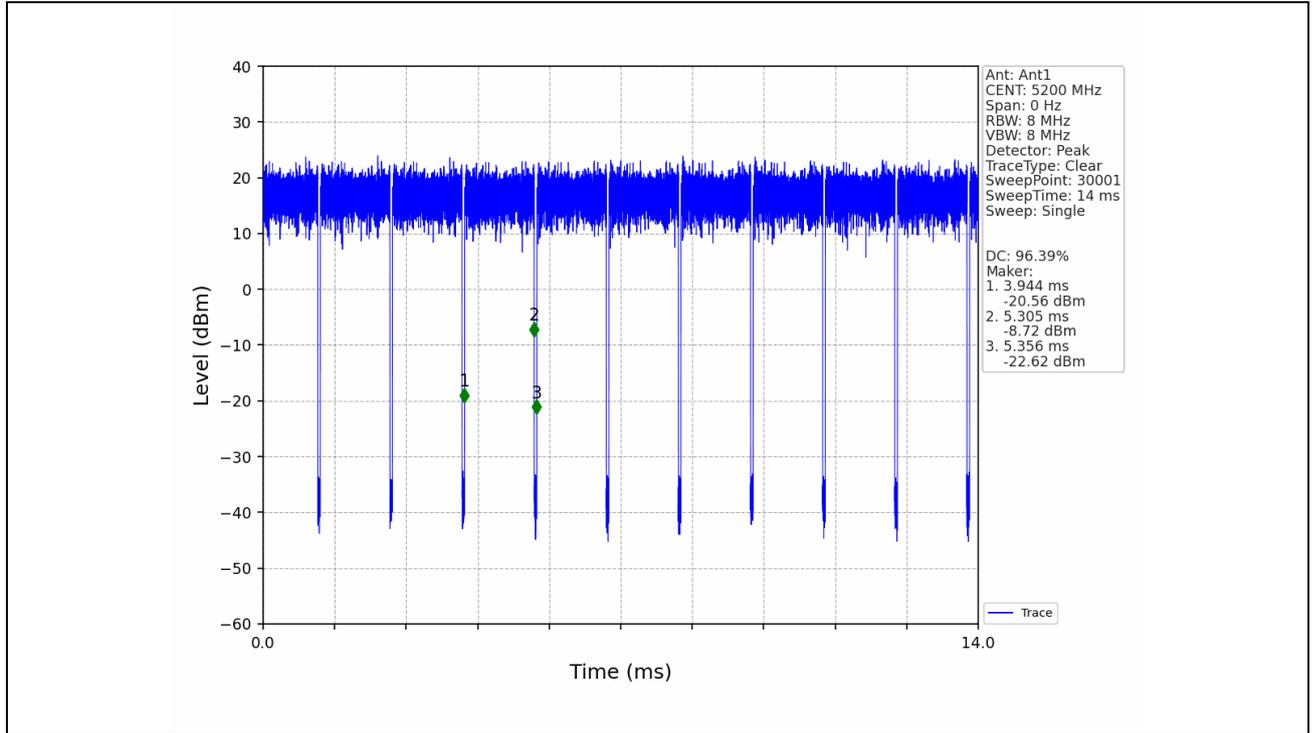
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### 1.2 Test Graph

#### 1.2.1 Ant1

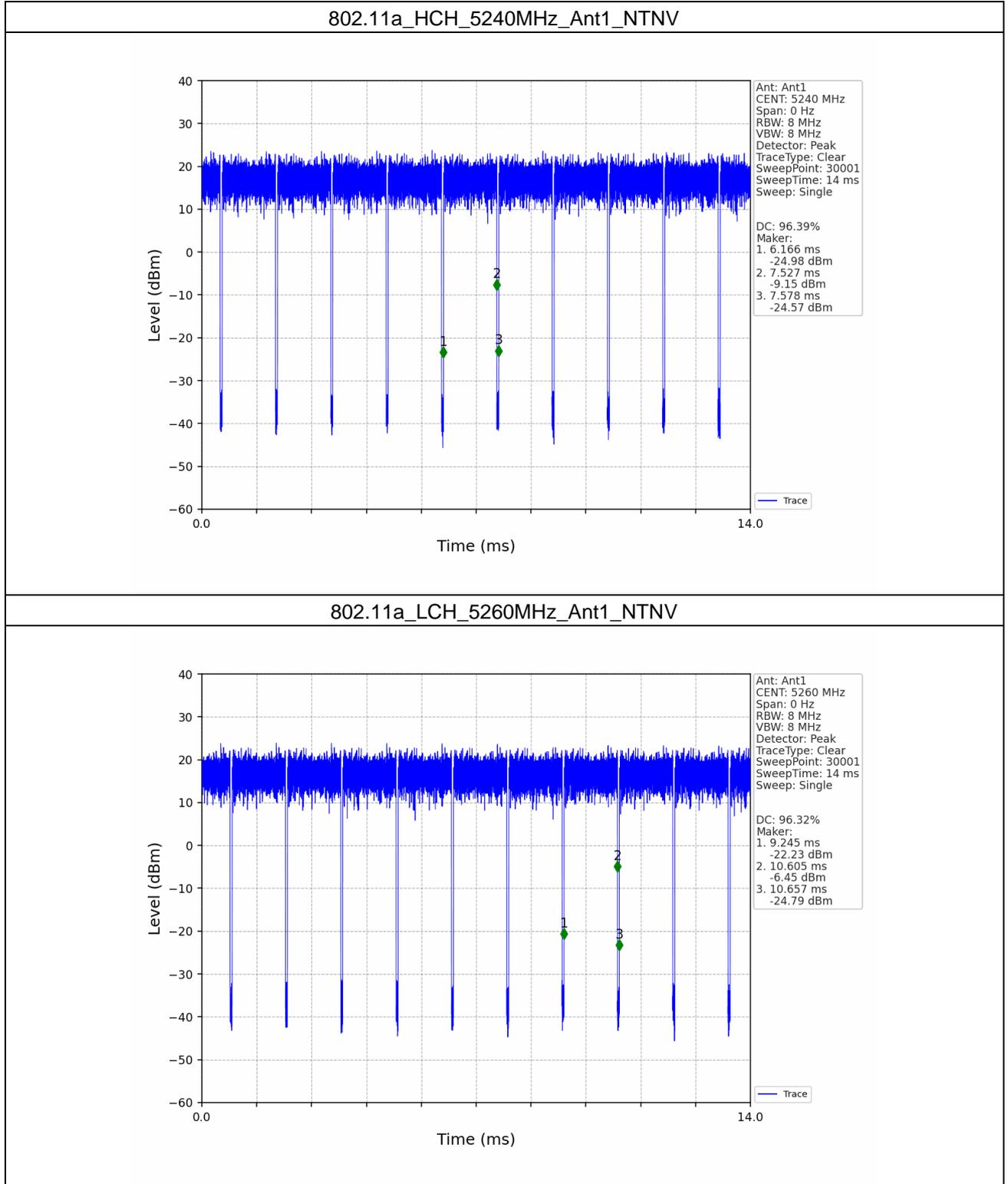


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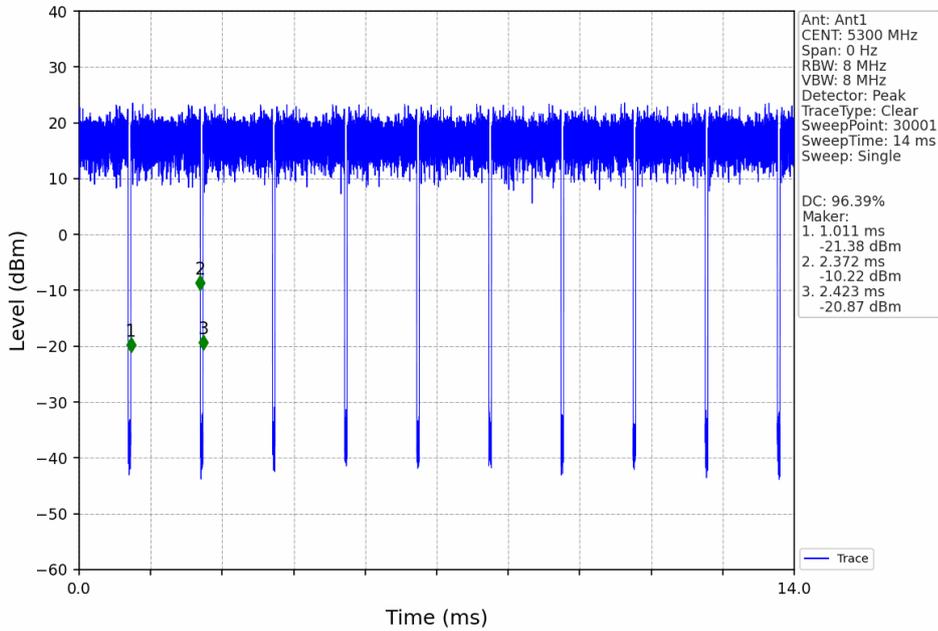
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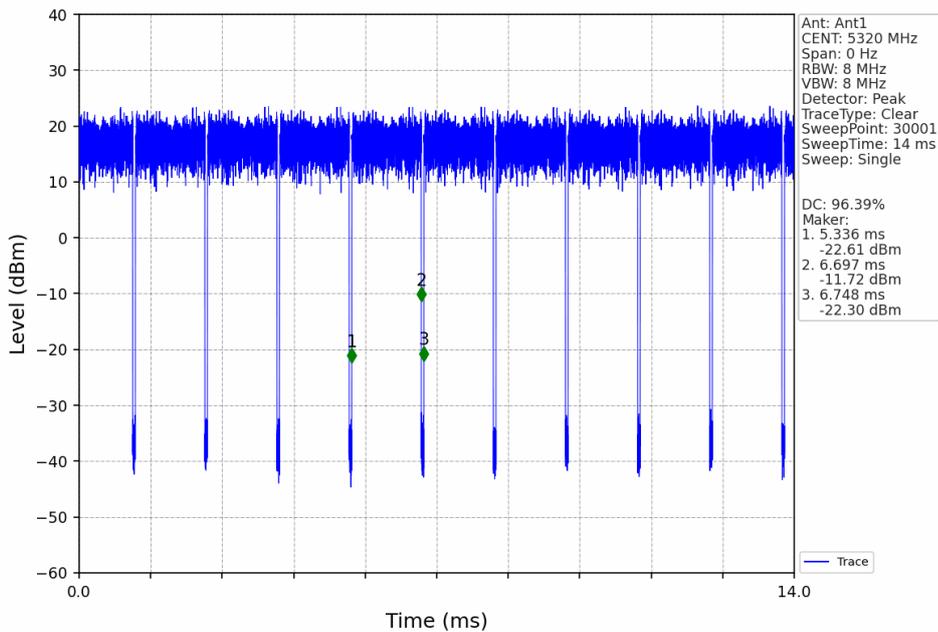


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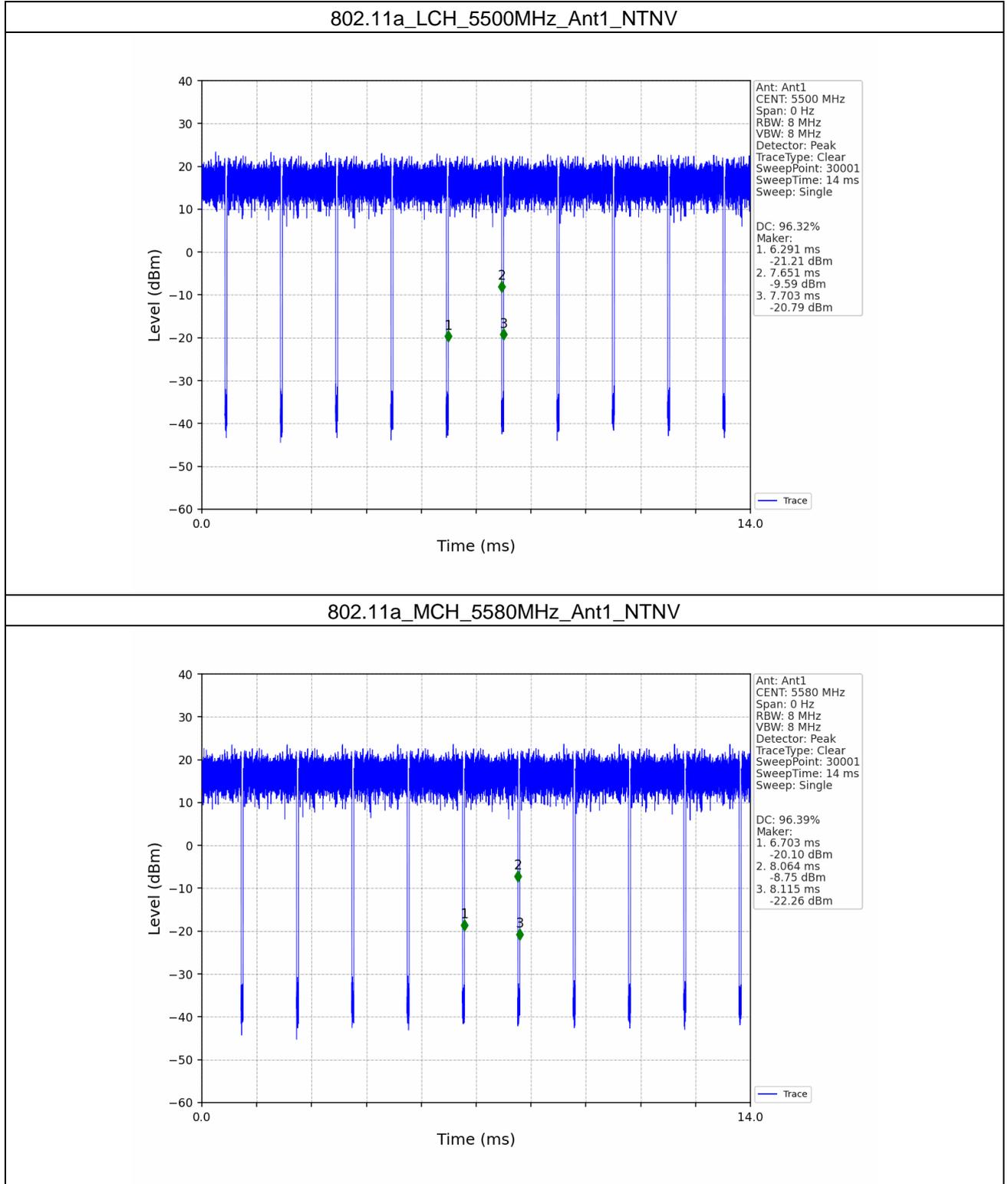
802.11a\_MCH\_5300MHz\_Ant1\_NTNV



802.11a\_HCH\_5320MHz\_Ant1\_NTNV

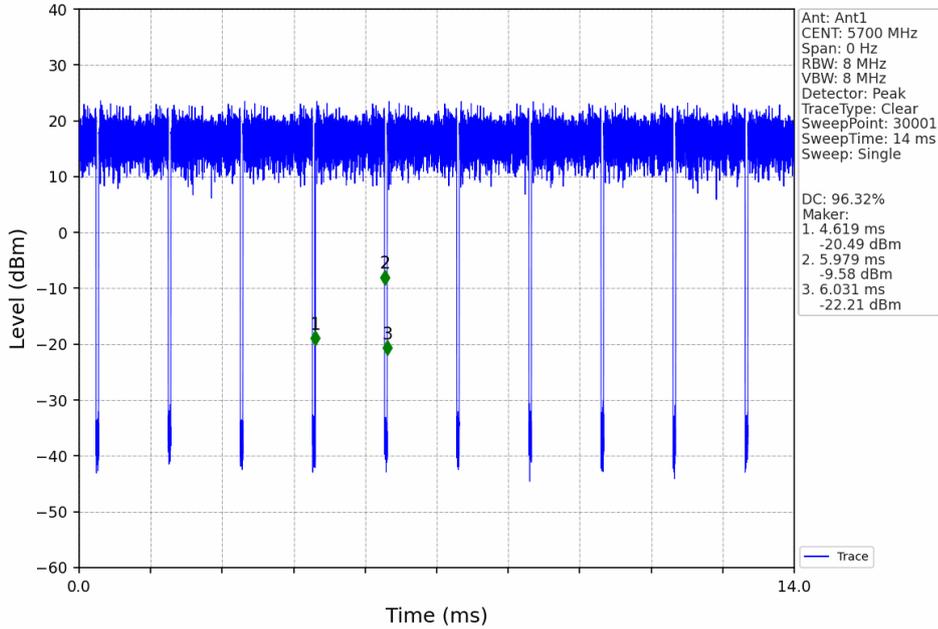


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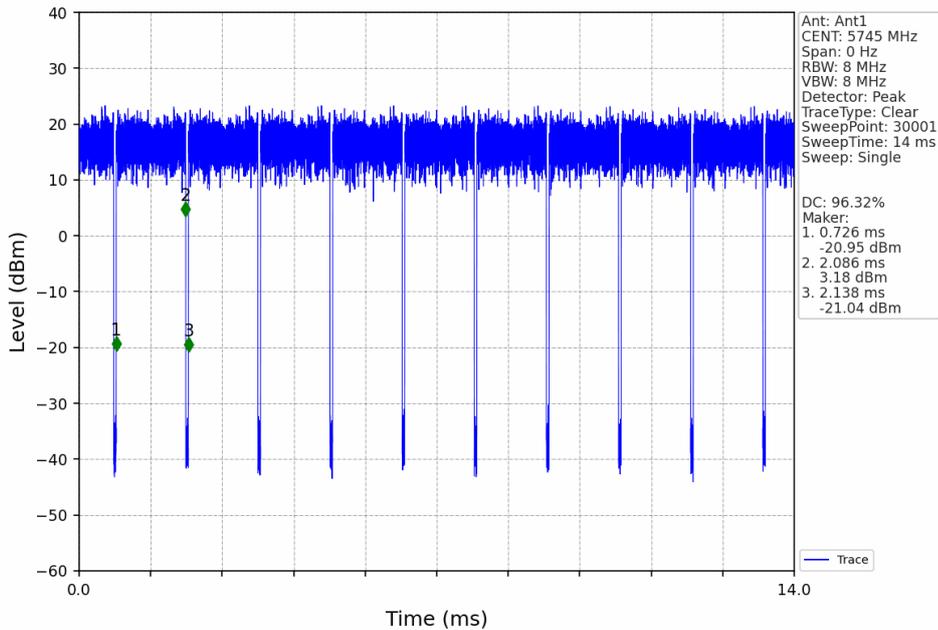


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802.11a\_HCH\_5700MHz\_Ant1\_NTNV



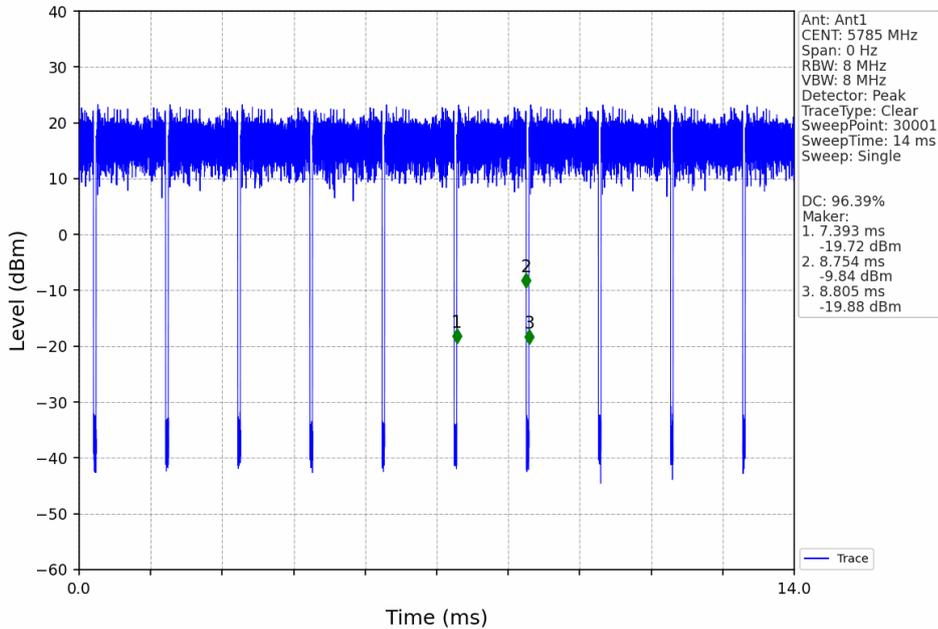
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



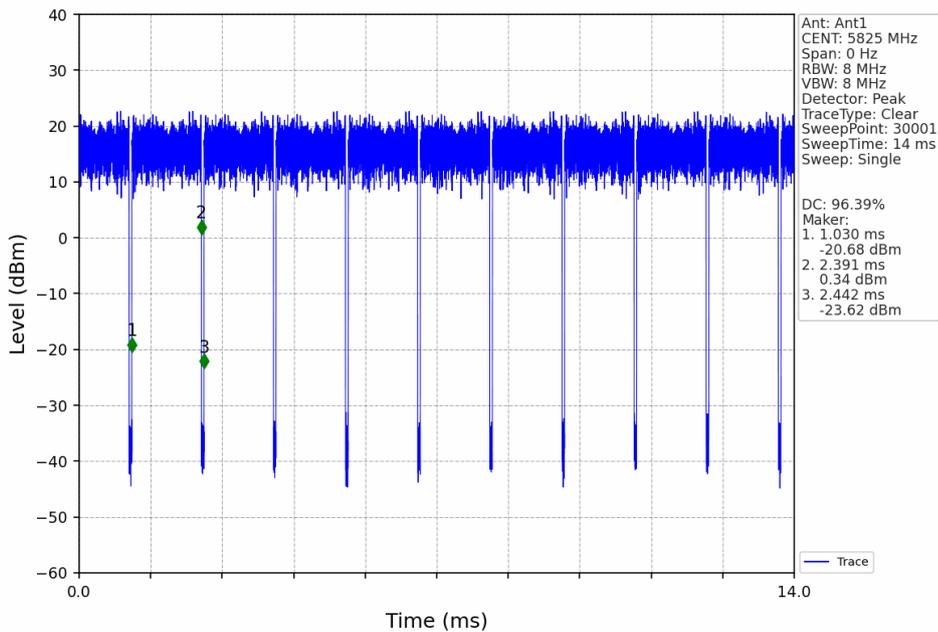
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### 802.11a\_MCH\_5785MHz\_Ant1\_NTNV

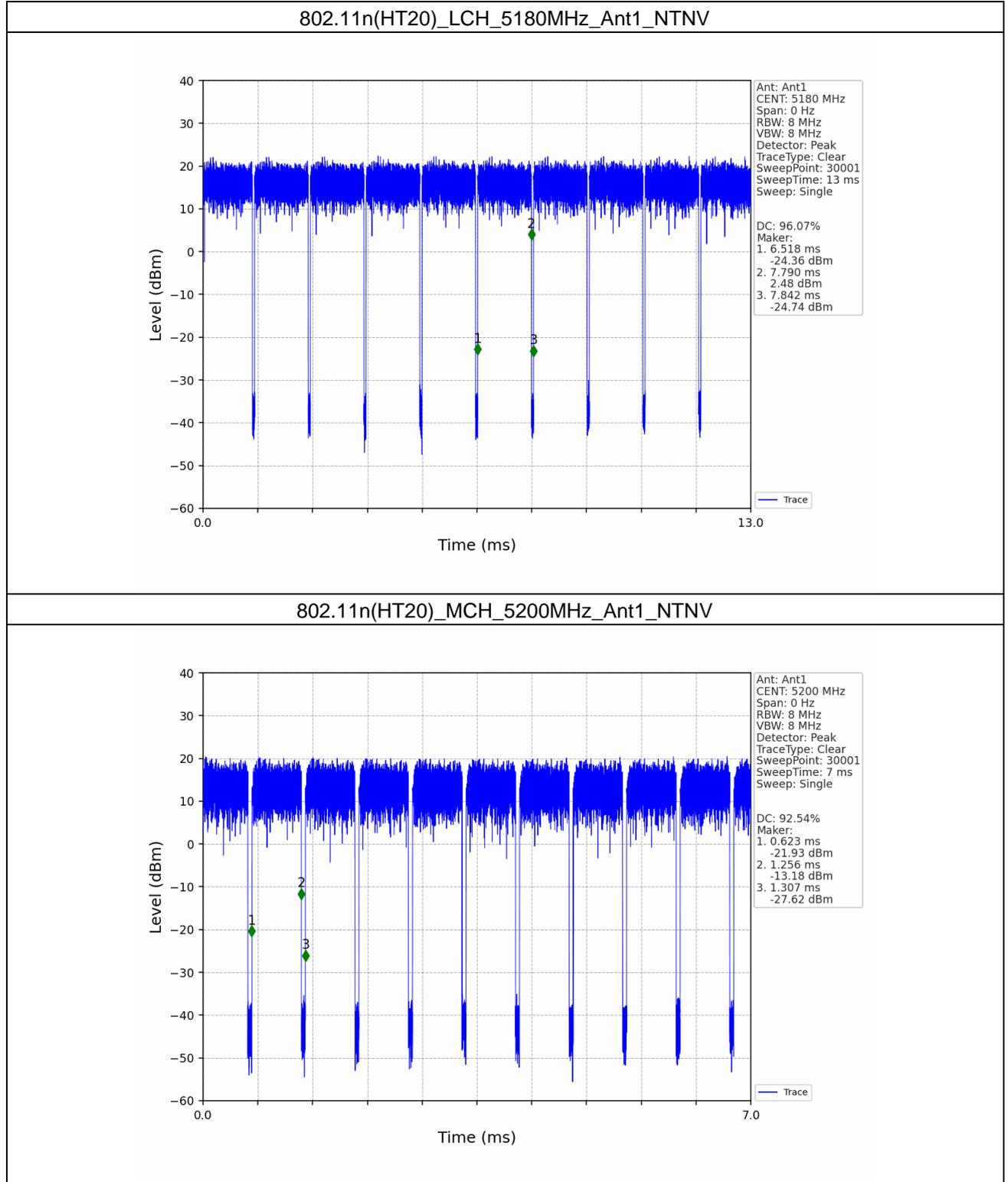


### 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



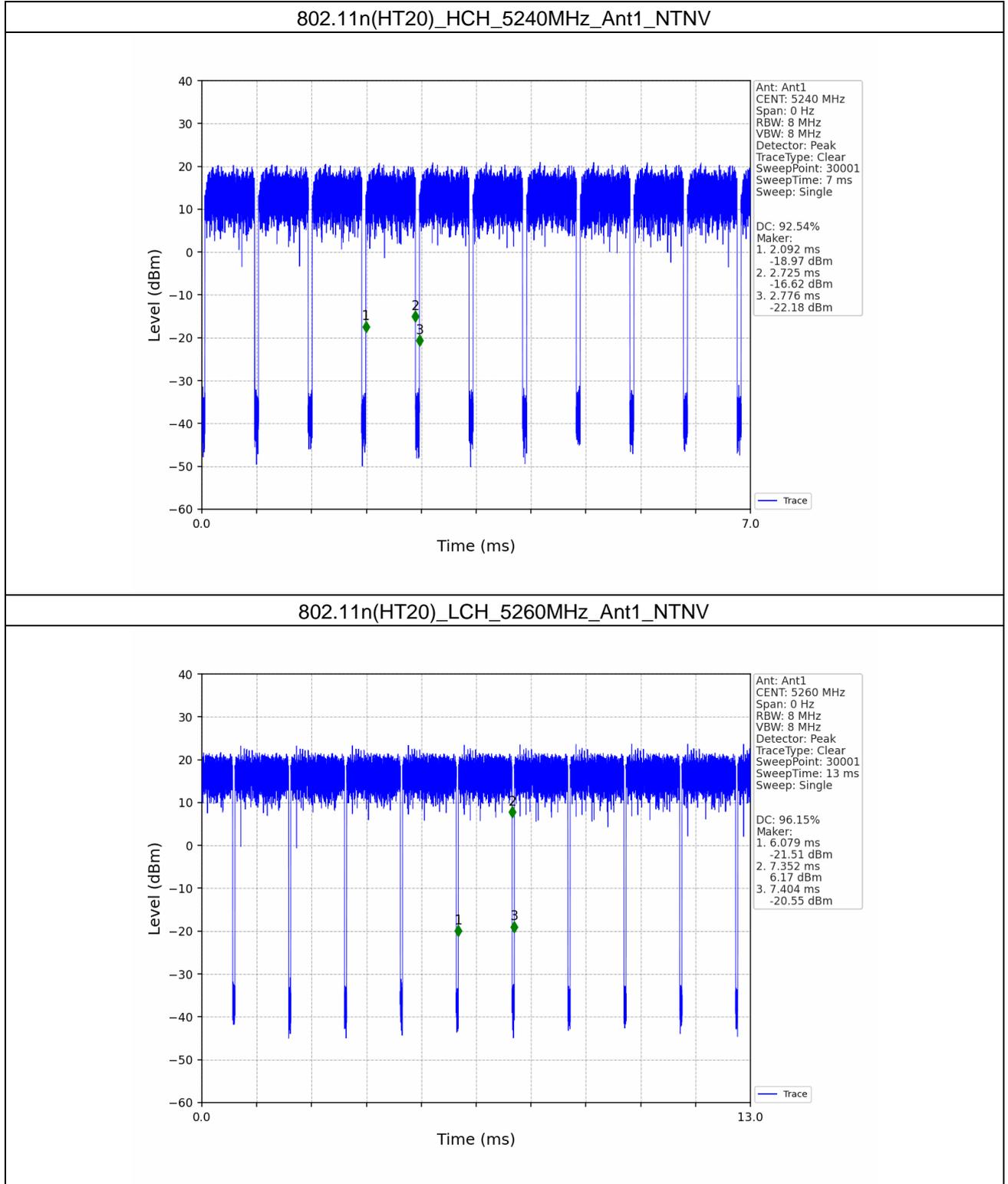
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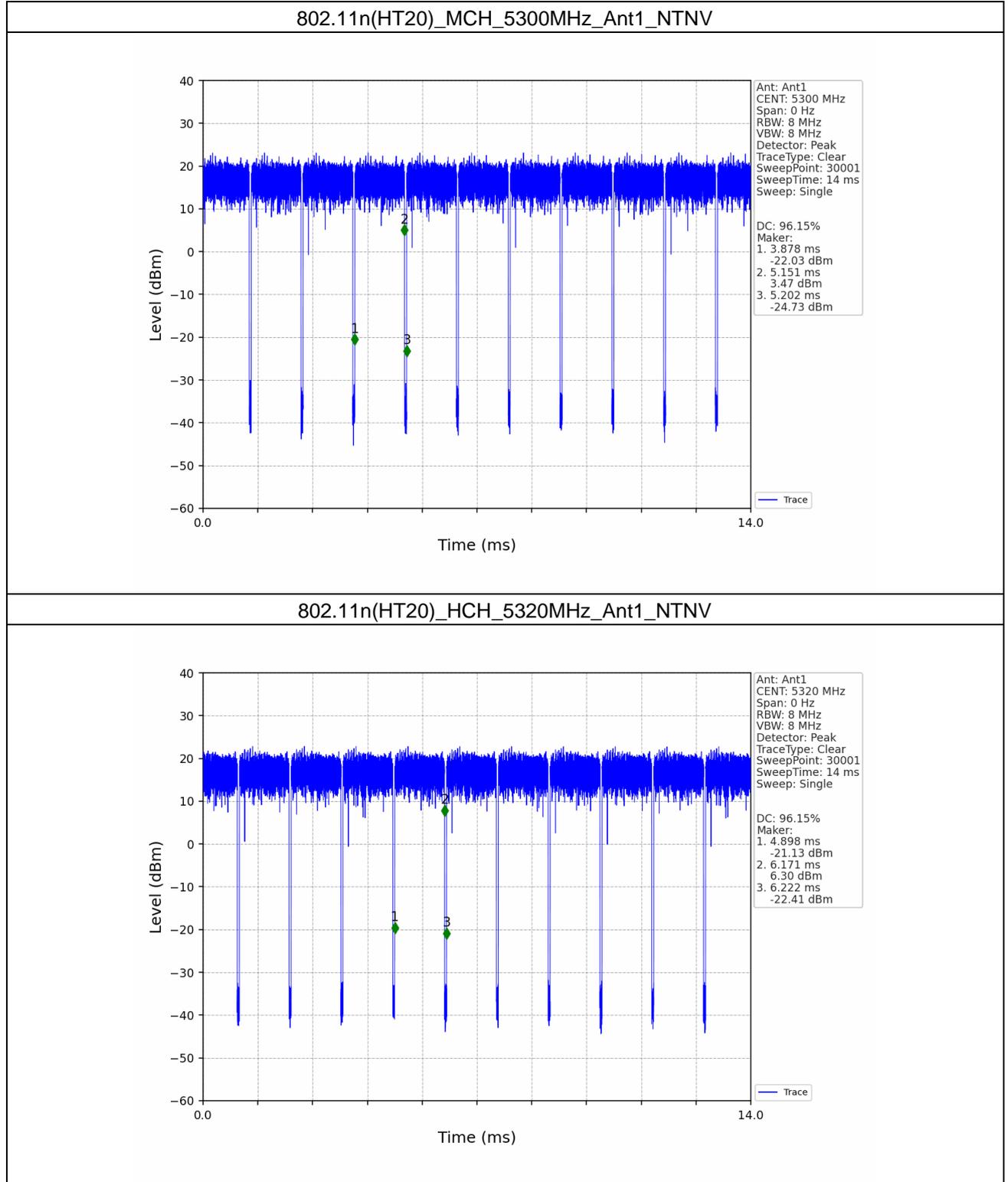
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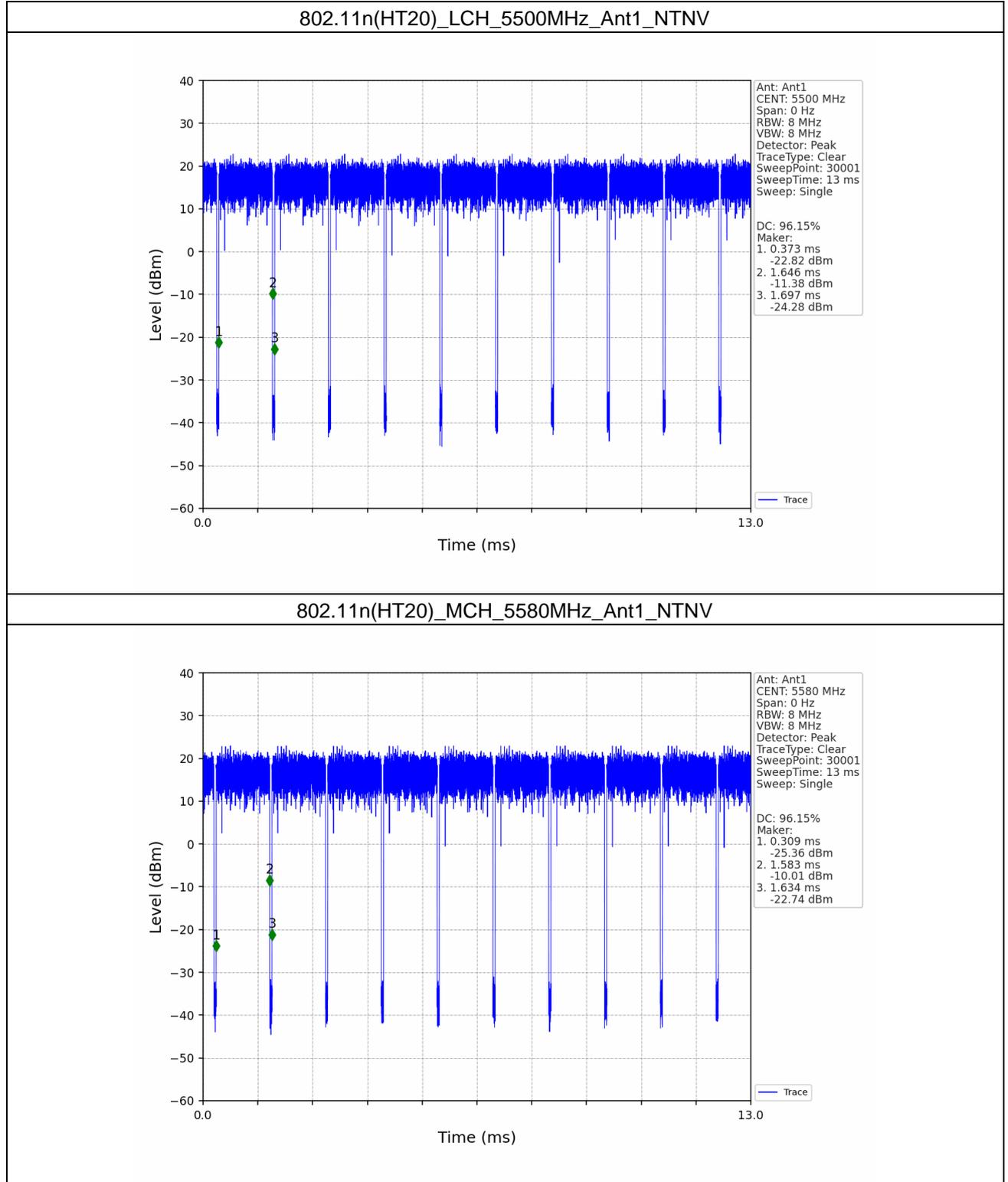


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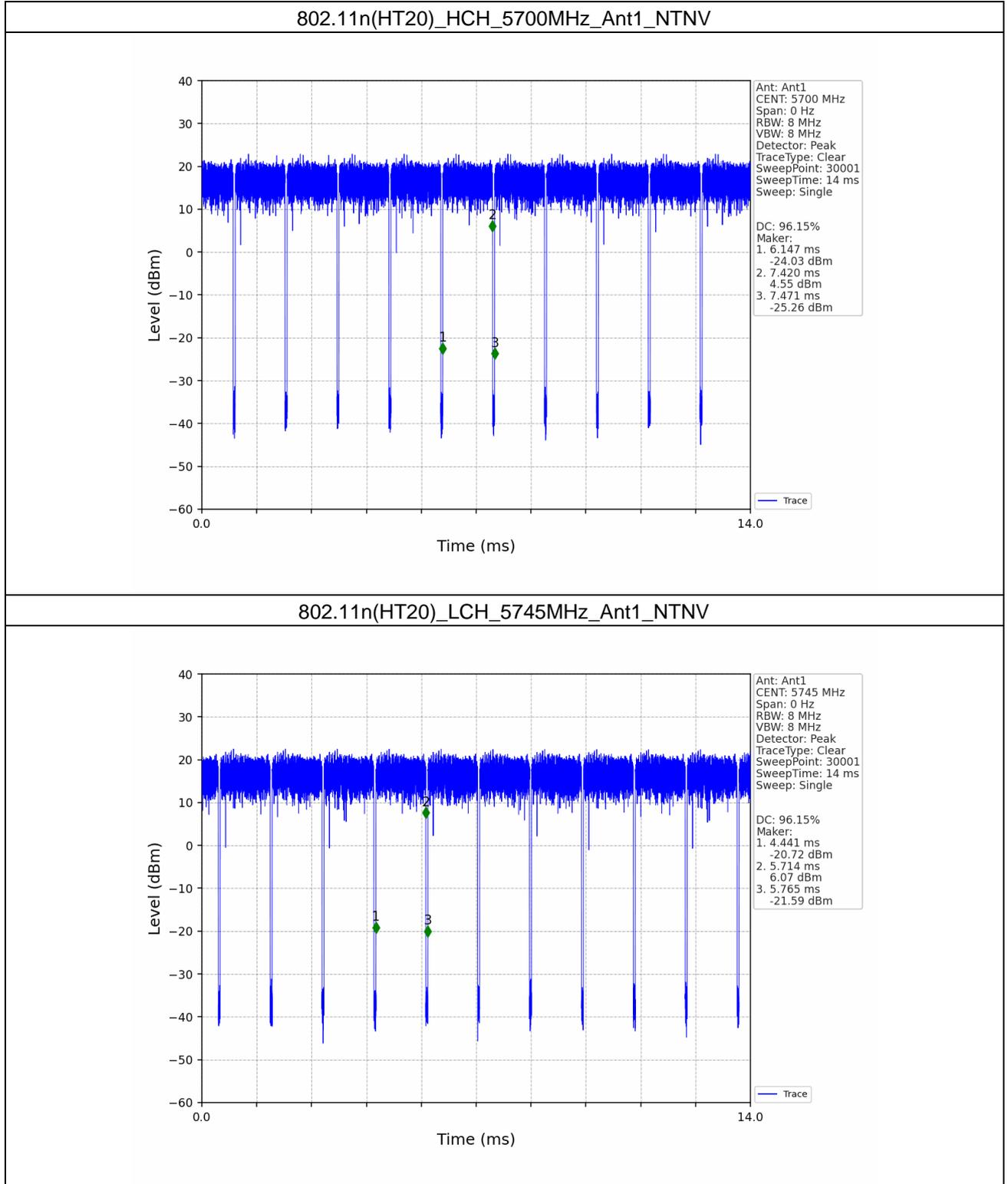
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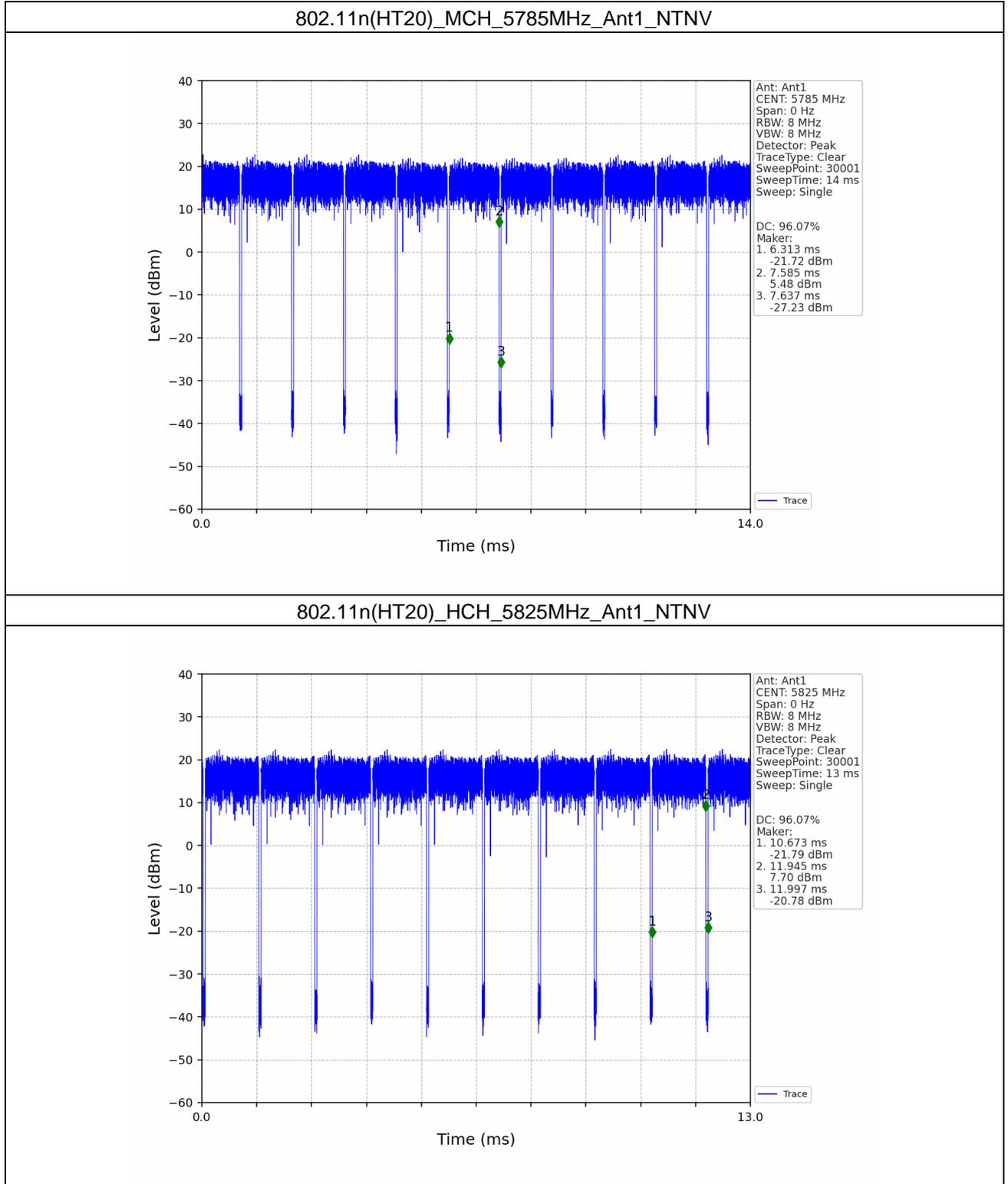


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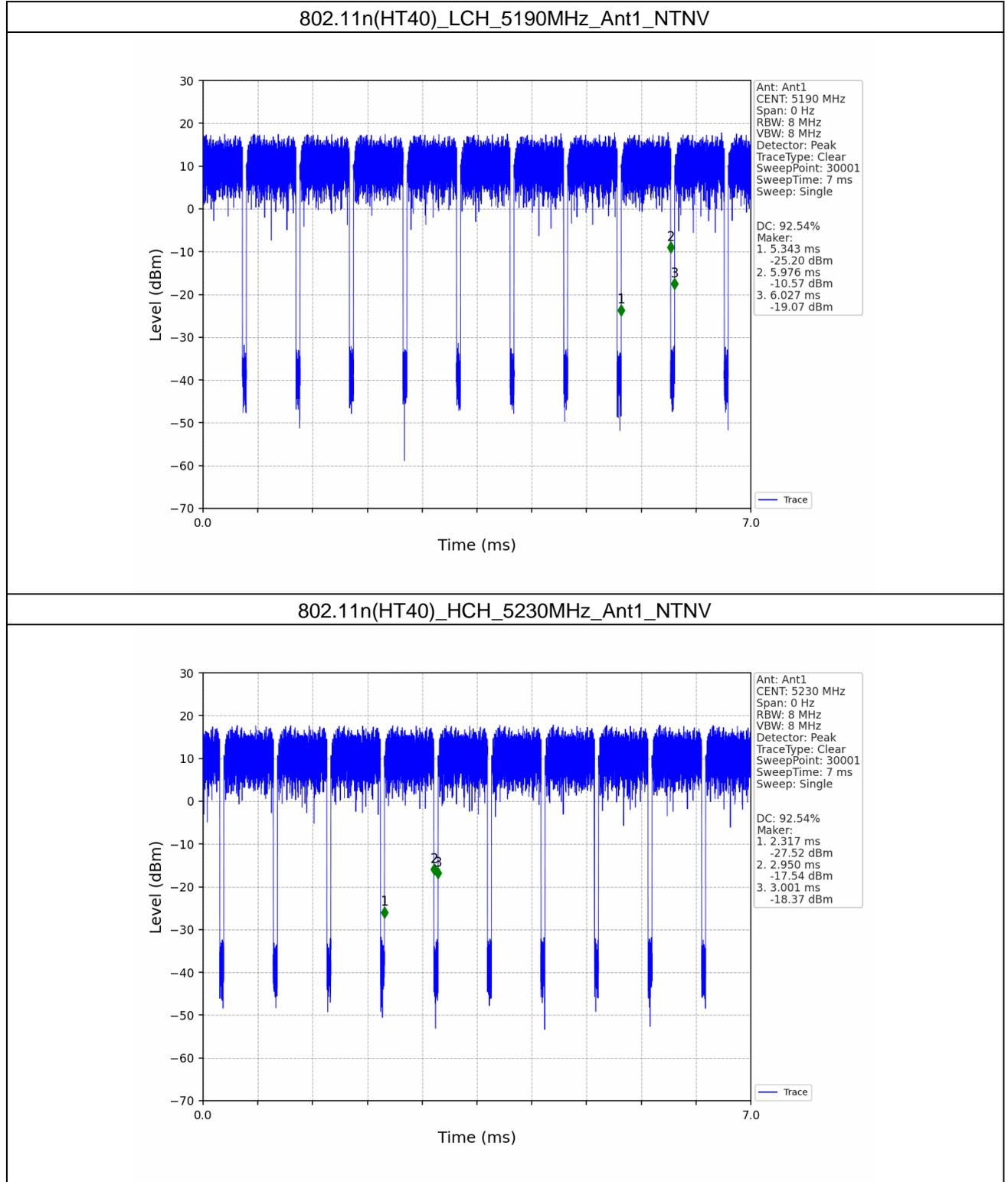


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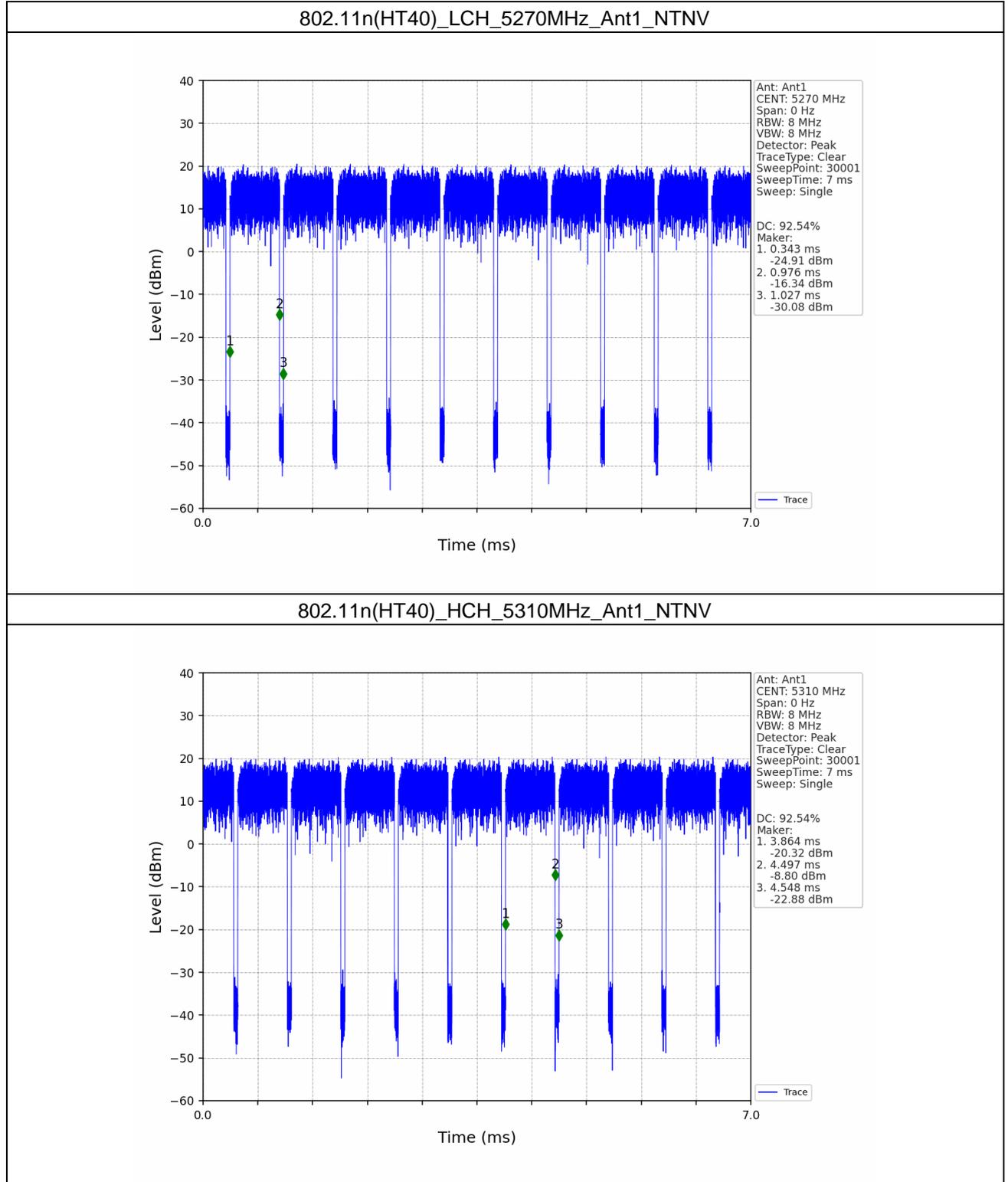
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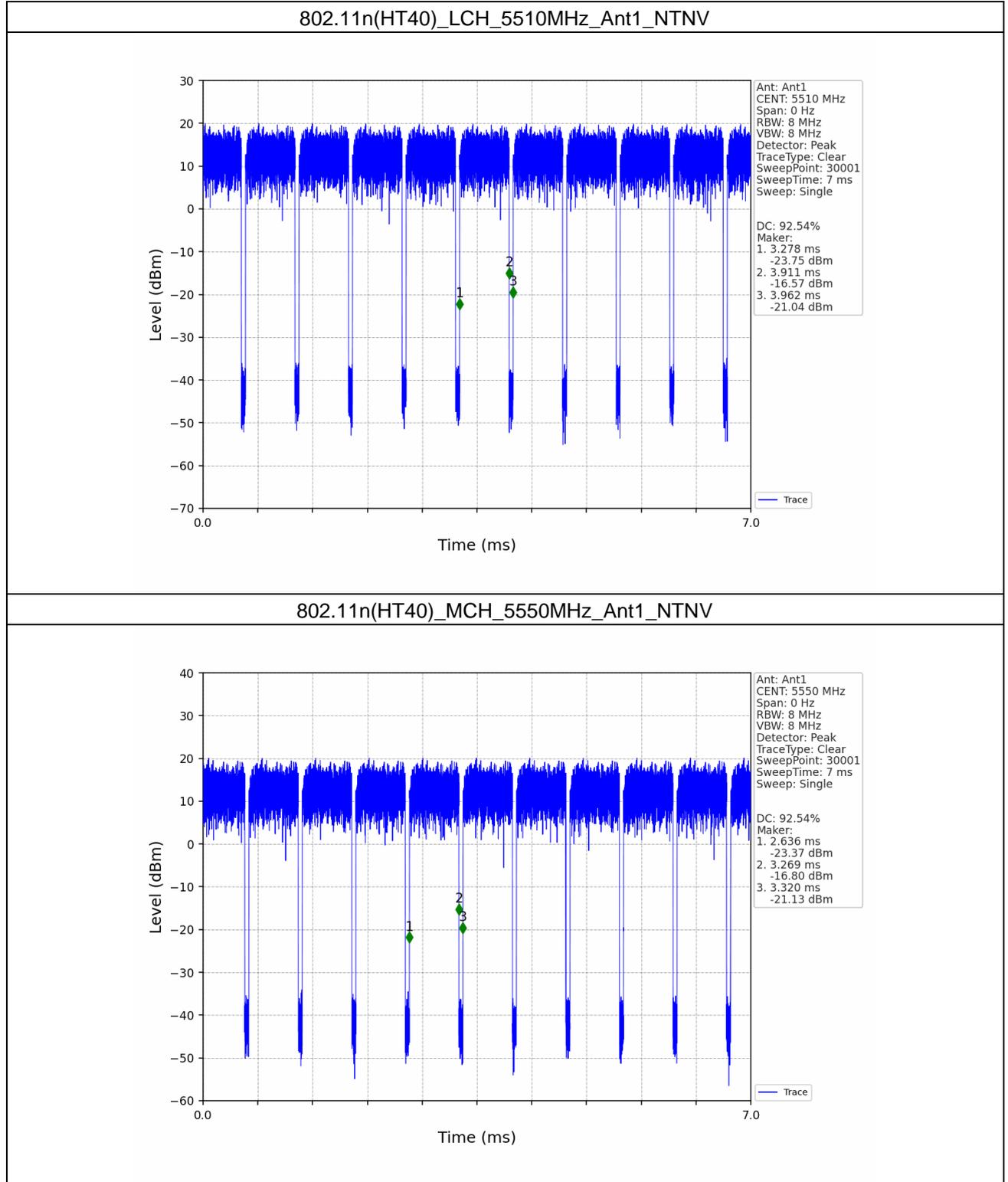
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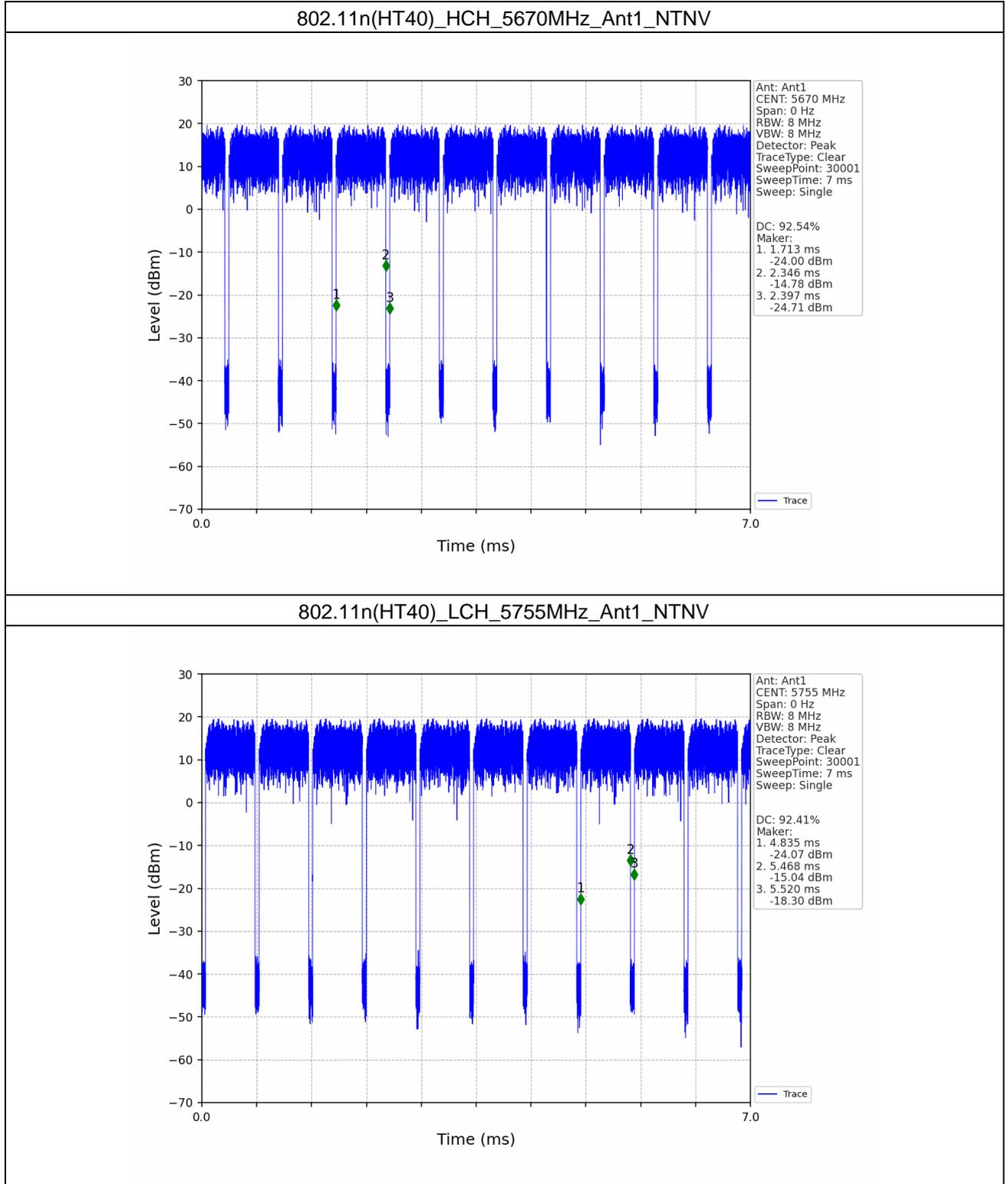
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