TEST REPORT

Application No.:	SZEM2101001123CR
Applicant:	DZS, Inc
Address of Applicant:	5700 Tennyson Parkway, Plano, Texas, TX 75024, USA
Manufacturer:	DZS, Inc
Address of Manufacturer:	5700 Tennyson Parkway, Plano, Texas, TX 75024, USA
Factory:	1.Aztech Communication Device (DG) Ltd. 2. IOT Manufacturing SDN.BHD
Address of Factory:	1.Jiu Jiang Shui Village Chang Ping Town, Dong Guan City Guang Dong Province, China 2. No.8&10, Setia Business Park, Jalan Laman Setia 7/4, Taman Laman Setia, 81550 Gelang Patah, Johor Bahru, Johor Malaysia
Equipment Under Test (EUT):	
EUT Name:	WLAN AP
Model No.:	MR-2100AC, MR-2100AC-XXX (X: 0-9, A-Z or blank, represents different markets), W1615MR, W1615MR-XXX(X: 0-9, A-Z or blank, represents different markets) ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	DZS
FCC ID:	2AZFQMR2100AC
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2021-01-26
Date of Test:	2021-01-30 to 2021-03-10
Date of Issue:	2021-03-11
Test Result:	**Pass***

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

Keny. xu

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
01		*2021-03-11*		*Original*

Authorized for issue by:				
		Edison Li/Project Engineer		
		Eric Fu/Reviewer		

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 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 & 15.407 b(8)	Pass
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions (Above 1GHz)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass

Remark:

Model No.: MR-2100AC, MR-2100AC-XXX (X: 0-9, A-Z or blank, represents different markets), W1615MR, W1615MR-XXX(X: 0-9, A-Z or blank, represents different markets)

Only the model MR-2100AC was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No.

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3 Contents

Page

1 COVER PAGE 1

2 TEST SUMMARY 3

3 CONTENTS 4

4 GENERAL INFORMATION 6

4.1 DETAILS OF E.U.T. 6
4.2 DESCRIPTION OF SUPPORT UNITS 6
4.3 MEASUREMENT UNCERTAINTY 7
4.4 TEST LOCATION 8
4.5 TEST FACILITY 8
4.6 DEVIATION FROM STANDARDS 8
4.7 ABNORMALITIES FROM STANDARD CONDITIONS 8

5 EQUIPMENT LIST 9

6 RADIO SPECTRUM TECHNICAL REQUIREMENT 12

6.1 ANTENNA REQUIREMENT 12
6.1.1 Test Requirement: 12
6.1.2 Conclusion 12
6.2 TRANSMISSION IN THE ABSENCE OF DATA 13
6.2.1 Test Requirement: 13
6.2.2 Conclusion 13

7 RADIO SPECTRUM MATTER TEST RESULTS 14

7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ) 14
7.1.1 E.U.T. Operation 14
7.1.2 Test Mode Description 14
7.1.3 Test Setup Diagram 15
7.1.4 Measurement Procedure and Data 15
7.2 DUTY CYCLE 20
7.2.1 E.U.T. Operation 20
7.2.2 Test Mode Description 20
7.2.3 Test Setup Diagram 20
7.2.4 Measurement Procedure and Data 21
7.3 99% BANDWIDTH 22
7.3.1 E.U.T. Operation 22
7.3.2 Test Mode Description 22
7.3.3 Test Setup Diagram 22
7.3.4 Measurement Procedure and Data 23
7.4 26DB EMISSION BANDWIDTH 24
7.4.1 E.U.T. Operation 24
7.4.2 Test Mode Description 24
7.4.3 Test Setup Diagram 24
7.4.4 Measurement Procedure and Data 24

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7.5 MINIMUM 6 DB BANDWIDTH (5.725-5.85 GHZ BAND) 25
7.5.1 E.U.T. Operation 25
7.5.2 Test Mode Description 25
7.5.3 Test Setup Diagram 25
7.5.4 Measurement Procedure and Data 25
7.6 MAXIMUM CONDUCTED OUTPUT POWER 26
7.6.1 E.U.T. Operation 26
7.6.2 Test Mode Description 26
7.6.3 Test Setup Diagram 27
7.6.4 Measurement Procedure and Data 27
7.7 PEAK POWER SPECTRUM DENSITY 28
7.7.1 E.U.T. Operation 28
7.7.2 Test Mode Description 28
7.7.3 Test Setup Diagram 29
7.7.4 Measurement Procedure and Data 29
7.8 RADIATED EMISSIONS (BELOW 1GHZ) 30
7.8.1 E.U.T. Operation 30
7.8.2 Test Mode Description 30
7.8.3 Test Setup Diagram 31
7.8.4 Measurement Procedure and Data 32
7.9 RADIATED EMISSIONS (ABOVE 1GHZ) 37
7.9.1 E.U.T. Operation 37
7.9.2 Test Mode Description 38
7.9.3 Test Setup Diagram 38
7.9.4 Measurement Procedure and Data 39
7.10 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS 96
7.10.1 E.U.T. Operation 97
7.10.2 Test Mode Description 97
7.10.3 Test Setup Diagram 97
7.10.4 Measurement Procedure and Data 98
7.11 FREQUENCY STABILITY 165
7.11.1 E.U.T. Operation 165
7.11.2 Test Mode Description 165
7.11.3 Test Setup Diagram 165
7.11.4 Measurement Procedure and Data 166

8 TEST SETUP PHOTO 167

9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) 167

10 APPENDIX FOR 15.407 168-282

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4 General Information

4.1 Details of E.U.T.

Power supply:	Switching Adapter1 Model: HS1201500U Input: AC 100-240V, 50/60Hz, Max.0.8A Output: DC 12V, 1.5A, 18W Switching Adapter2 Model: S18B22-120A150-C4 Input: AC 100-240V, 50/60Hz, Max.0.7A Output: DC 12V, 1.5A, 18W			
Test Voltage:	AC 120V, 60Hz and AC 240 V, 50Hz Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176 Q4, this report only shows the results of the worst test result(AC 120V/60Hz);			
Cable(s):	DC cable:142cm unshielded			
Internal Source:	More than 108MHz			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4
		802.11n(HT40)/ac(HT40)	5190-5230	2
		802.11ac(HT80)	5210	1
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5
		802.11n(HT40)/ac(HT40)	5755-5795	2
		802.11ac(HT80)	5775	1
Modulation Type:	802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
TPC Function:	Not support			
Sample Type:	Fixed device			
Antenna Type:	PCB Antenna			
Antenna Gain:	Antenna1:3.85dBi, Antenna2: 3.77dBi, Antenna3:3.80dBi, Antenna4: 3.70dBi Note: MIMO for 802.11n/ac			

4.2 Description of Support Units

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

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (Below 1GHz)	± 4.5dB
Radiated Emissions (Above 1GHz)	± 4.8dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (below 1GHz); ± 4.8dB (above 1GHz);
Frequency Stability	± 7.25 x 10-8

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4.4 Test Location

All tests were performed at:

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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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• 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

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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31

RF Conducted Test					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2021-03-24	2022-03-23
Power Meter	Rohde & Schwarz	NRVS	SEL0144	2020-10-24	20210-23

Radiated Emissions					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

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Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

Radiated Spurious Emissions					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

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General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 Antenna1 is 3.85dBi, Antenna2 is 3.77dBi, Antenna3 is 3.8dBi, Antenna4 is 3.7dBi.

Antenna location: Refer to Internal photos.

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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 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 (MT7615N) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

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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 & 15.407 b(8)

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

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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: 22.3 °C Humidity: 53.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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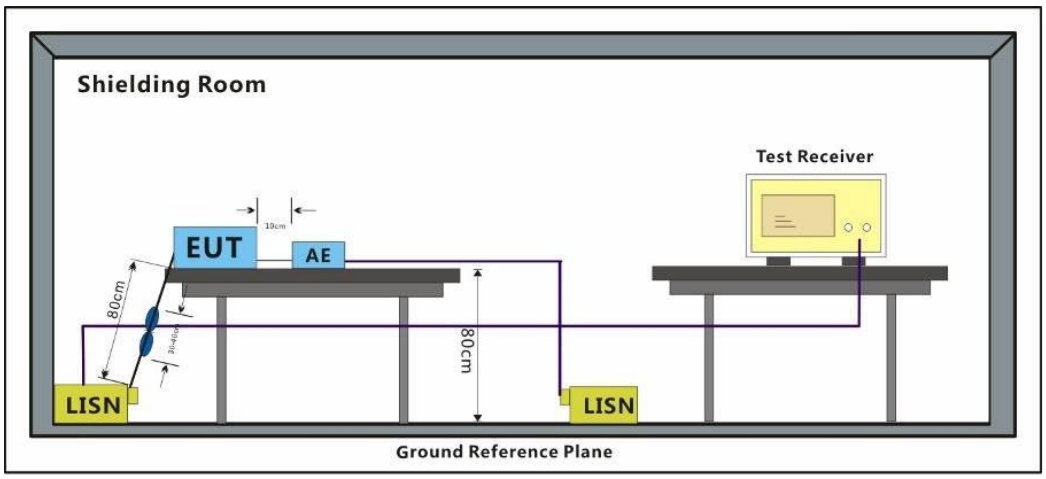
7.1.3 Test Setup Diagram



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: LISN=Read Level+ Cable Loss+ LISN Factor

6) Both Adapter1 and Adapter2 was tested fully, data for both adapters are recorded.

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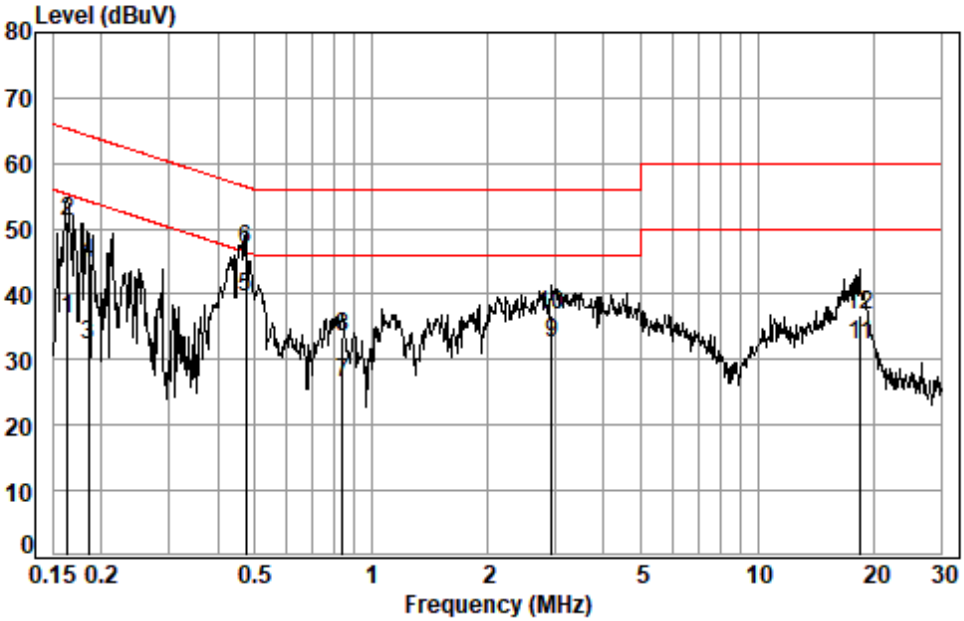
Test data for adapter1
Test Mode: 02; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01123CR
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1633	0.03	9.71	26.61	36.35	55.30	-18.95	Average
2	0.1633	0.03	9.71	41.24	50.98	65.30	-14.32	QP
3	0.1854	0.03	9.72	22.63	32.38	54.24	-21.86	Average
4	0.1854	0.03	9.72	34.98	44.73	64.24	-19.51	QP
5	0.4736	0.07	9.77	29.69	39.53	46.45	-6.92	Average
6	0.4736	0.07	9.77	36.98	46.82	56.45	-9.63	QP
7	0.8438	0.09	9.78	16.50	26.37	46.00	-19.63	Average
8	0.8438	0.09	9.78	23.69	33.56	56.00	-22.44	QP
9	2.9307	0.14	9.84	22.47	32.45	46.00	-13.55	Average
10	2.9307	0.14	9.84	26.86	36.84	56.00	-19.16	QP
11	18.4258	0.17	10.78	21.42	32.37	50.00	-17.63	Average
12	18.4258	0.17	10.78	25.98	36.93	60.00	-23.07	QP

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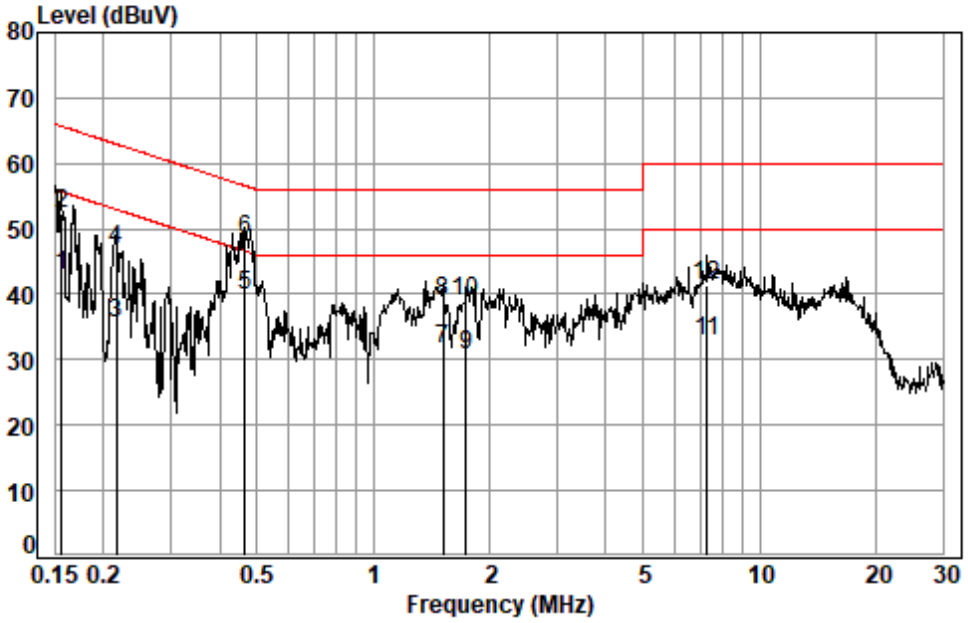
Test Mode: 02; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01123CR
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.03	9.71	33.24	42.98	55.69	-12.71	Average
2	0.1557	0.03	9.71	42.71	52.45	65.69	-13.24	QP
3	0.2162	0.04	9.72	25.96	35.72	52.96	-17.24	Average
4	0.2162	0.04	9.72	37.20	46.96	62.96	-16.00	QP
5	0.4661	0.07	9.76	30.13	39.96	46.58	-6.62	Average
6	0.4661	0.07	9.76	38.46	48.29	56.58	-8.29	QP
7	1.5193	0.12	9.79	21.71	31.62	46.00	-14.38	Average
8	1.5193	0.12	9.79	29.02	38.93	56.00	-17.07	QP
9	1.7437	0.12	9.80	20.66	30.58	46.00	-15.42	Average
10	1.7437	0.12	9.80	29.06	38.98	56.00	-17.02	QP
11	7.3290	0.16	10.06	22.61	32.83	50.00	-17.17	Average
12	7.3290	0.16	10.06	31.01	41.23	60.00	-18.77	QP

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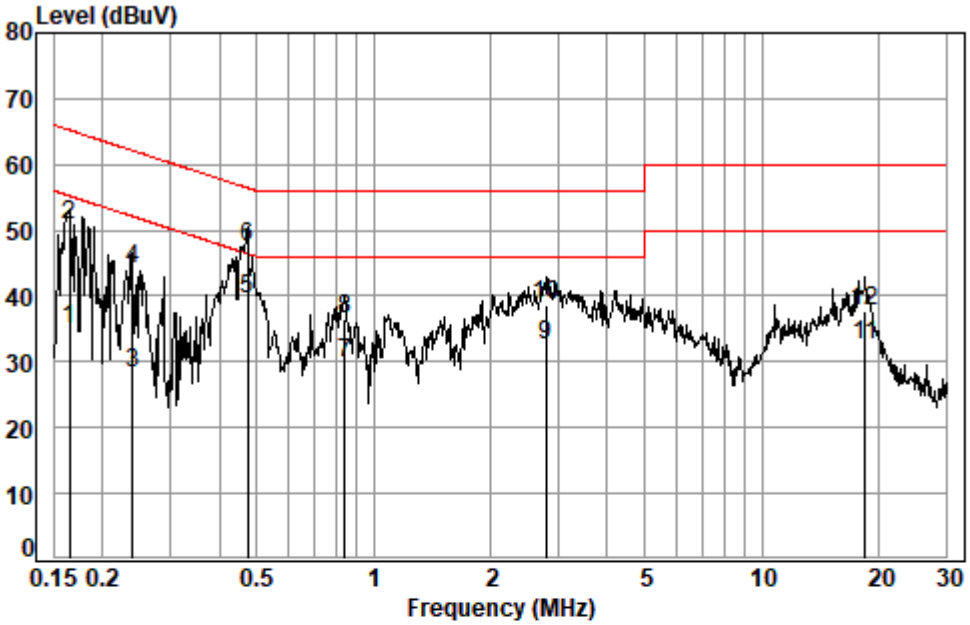
Test data for adapter2
Test Mode: 02; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01123CR
Test mode: 02 Adapter2

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1641	0.03	9.71	25.32	35.06	55.25	-20.19	Average
2	0.1641	0.03	9.71	41.00	50.74	65.25	-14.51	QP
3	0.2391	0.04	9.74	18.49	28.27	52.13	-23.86	Average
4	0.2391	0.04	9.74	34.19	43.97	62.13	-18.16	QP
5	0.4736	0.07	9.77	29.80	39.64	46.45	-6.81	Average
6	0.4736	0.07	9.77	37.47	47.31	56.45	-9.14	QP
7	0.8438	0.09	9.78	19.87	29.74	46.00	-16.26	Average
8	0.8438	0.09	9.78	26.49	36.36	56.00	-19.64	QP
9	2.7794	0.14	9.83	22.46	32.43	46.00	-13.57	Average
10	2.7794	0.14	9.83	28.65	38.62	56.00	-17.38	QP
11	18.5237	0.17	10.79	21.61	32.57	50.00	-17.43	Average
12	18.5237	0.17	10.79	26.86	37.82	60.00	-22.18	QP

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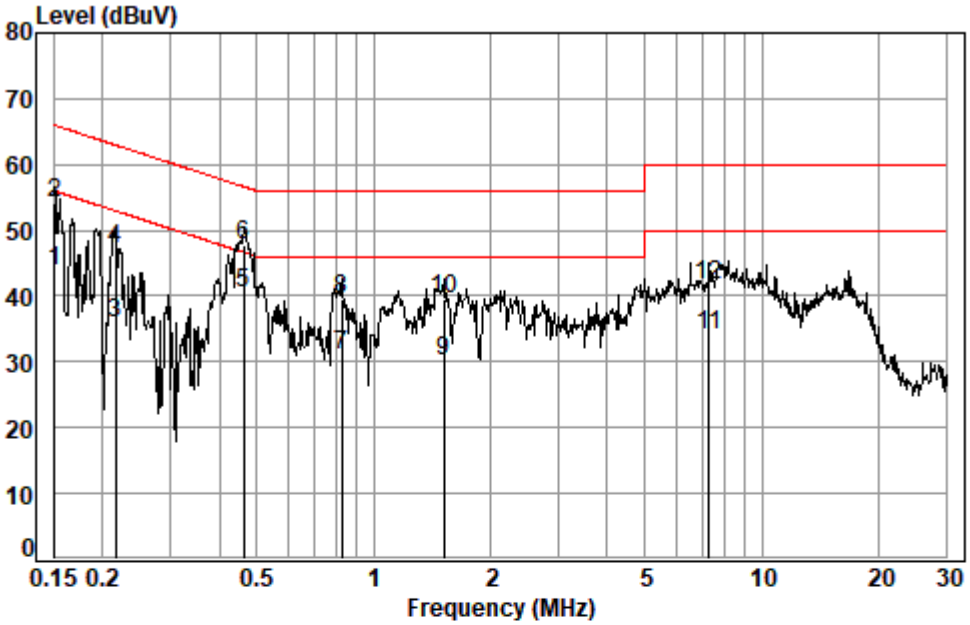
Test Mode: 02; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01123CR
Test mode: 02 Adapter2

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1508	0.03	9.71	33.99	43.73	55.96	-12.23	Average
2	0.1508	0.03	9.71	44.52	54.26	65.96	-11.70	QP
3	0.2162	0.04	9.72	25.99	35.75	52.96	-17.21	Average
4	0.2162	0.04	9.72	37.36	47.12	62.96	-15.84	QP
5	0.4637	0.07	9.76	30.68	40.51	46.63	-6.12	Average
6	0.4637	0.07	9.76	37.95	47.78	56.63	-8.85	QP
7	0.8261	0.09	9.77	21.18	31.04	46.00	-14.96	Average
8	0.8261	0.09	9.77	29.66	39.52	56.00	-16.48	QP
9	1.5193	0.12	9.79	20.06	29.97	46.00	-16.03	Average
10	1.5193	0.12	9.79	29.51	39.42	56.00	-16.58	QP
11	7.3290	0.16	10.06	23.80	34.02	50.00	-15.98	Average
12	7.3290	0.16	10.06	31.39	41.61	60.00	-18.39	QP

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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

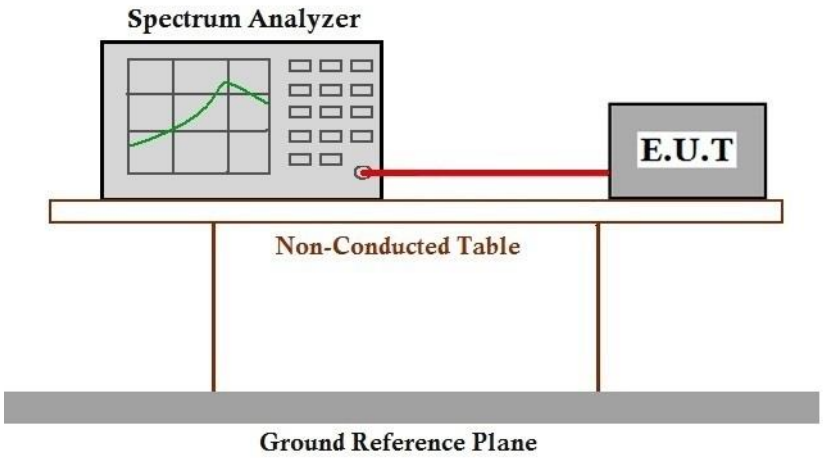
Operating Environment:

Temperature: 23.6 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

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7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

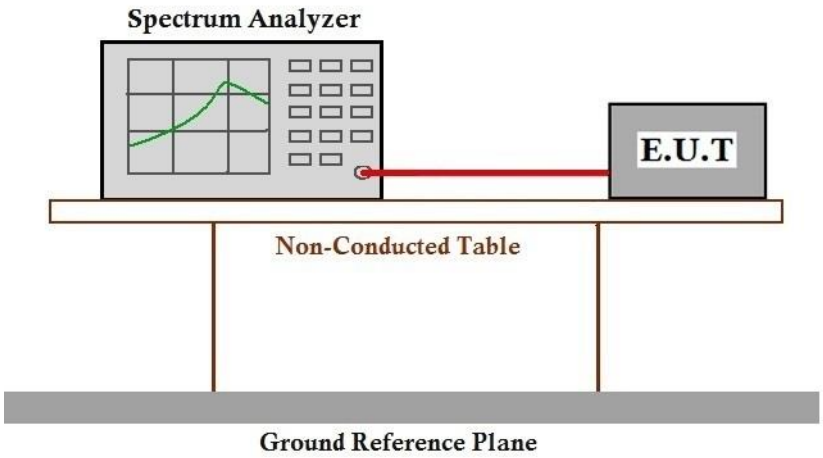
Operating Environment:

Temperature: 23.6 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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

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7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

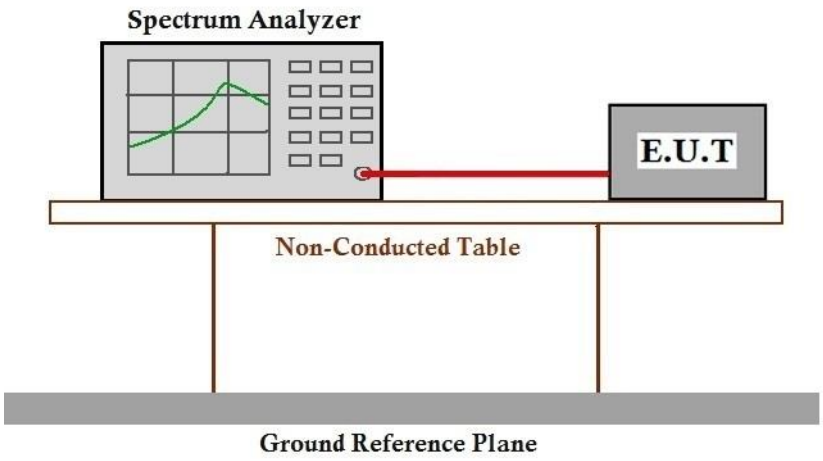
Operating Environment:

Temperature: 23.6 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

7.5.1 E.U.T. Operation

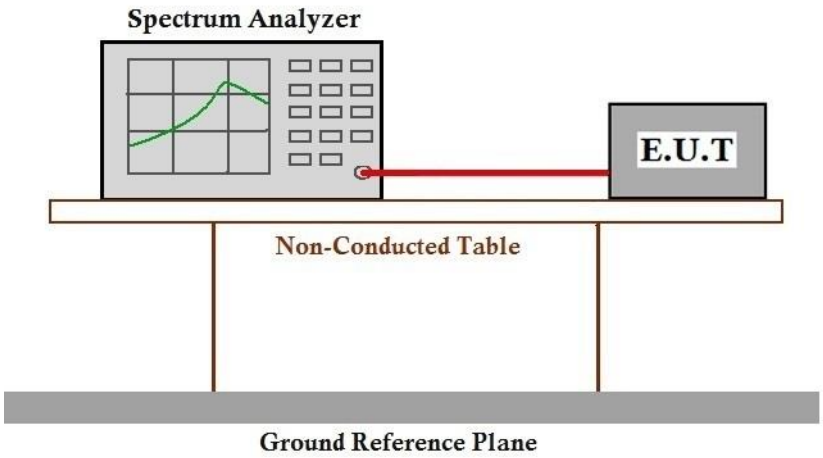
Operating Environment:

Temperature: 23.6 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 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) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device 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.	

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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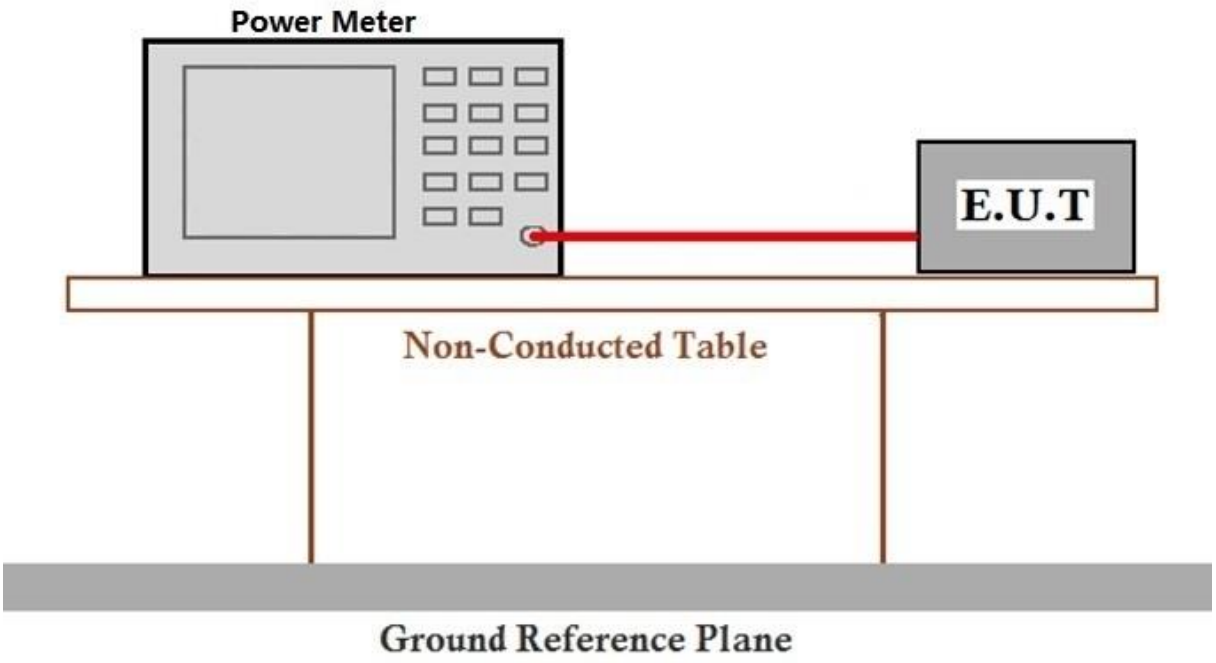
7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 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.	

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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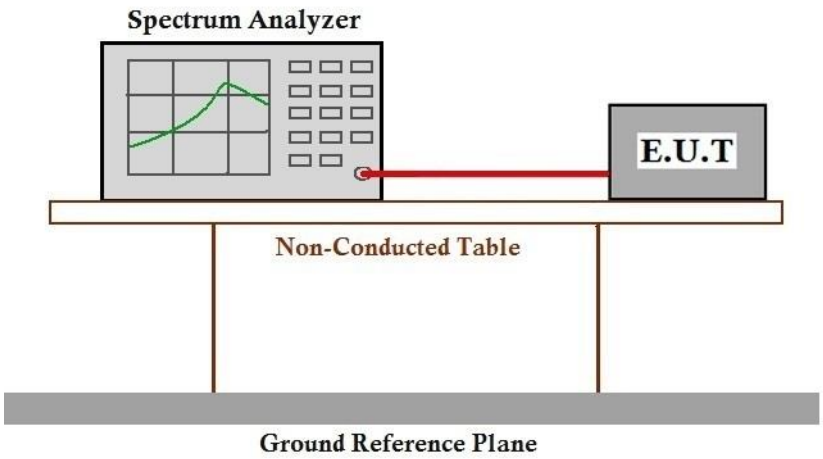
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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7.8 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.9 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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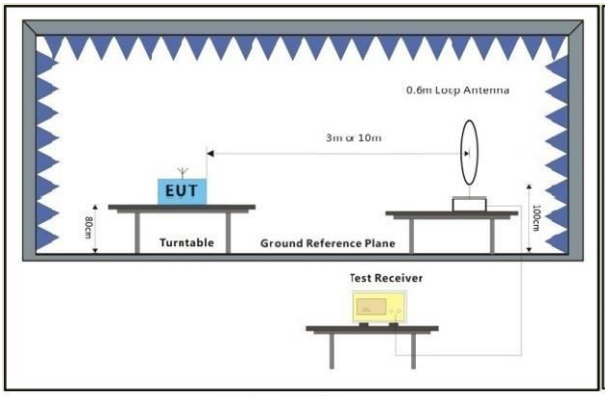
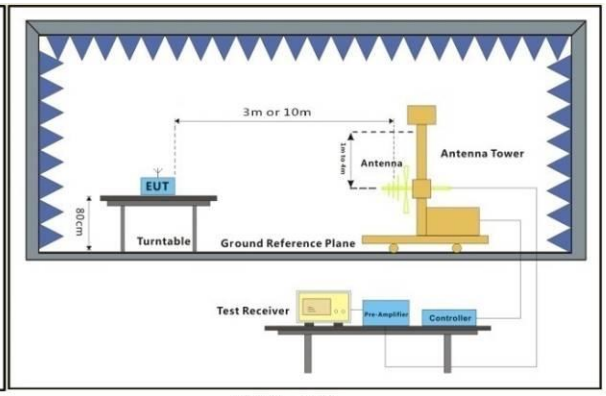
7.8.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.8.4 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. Both Adapter1 and Adapter2 was tested fully, data for both adapters are recorded for below 1GHz.

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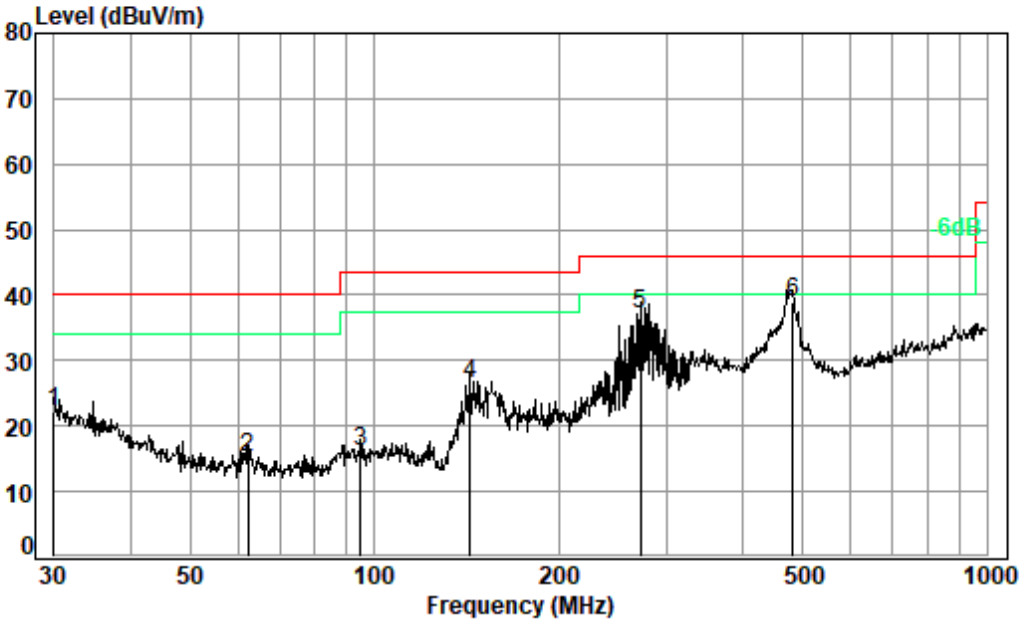
Test data for adapter1
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No. : 01123CR
Test Mode: 02

	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	30.00	0.60	23.00	27.74	26.34	22.20	40.00	-17.80	QP
2	62.21	0.80	12.97	27.66	28.99	15.10	40.00	-24.90	QP
3	95.09	1.20	13.66	27.62	28.85	16.09	43.50	-27.41	QP
4	143.33	1.15	13.84	27.37	38.77	26.39	43.50	-17.11	QP
5	272.28	1.81	18.55	26.94	43.57	36.99	46.00	-9.01	QP
6 pp	482.22	2.47	24.30	27.73	39.82	38.86	46.00	-7.14	QP

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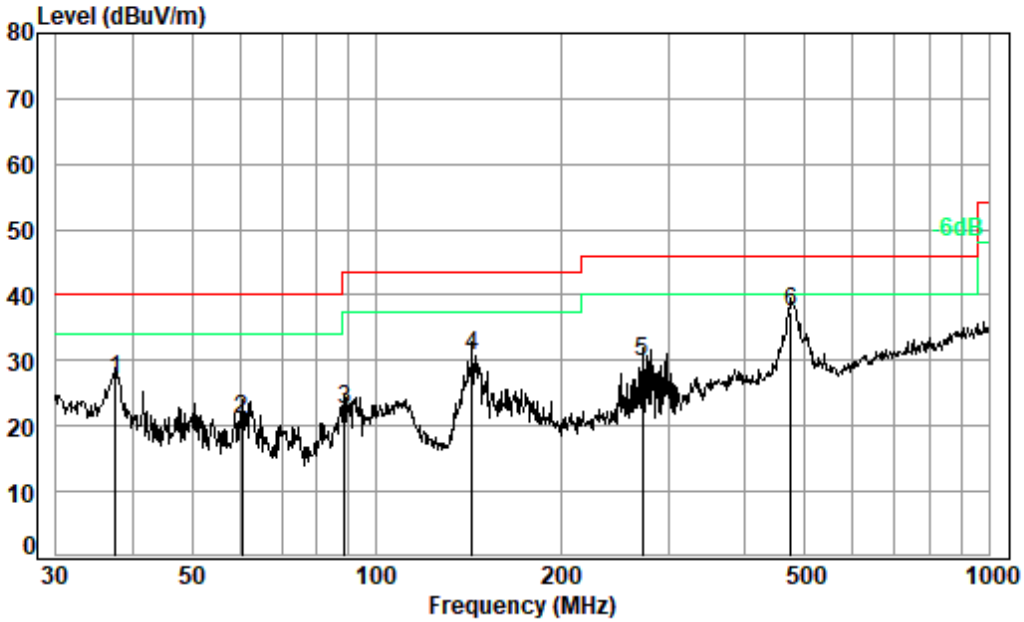
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No. : 01123CR
Test Mode: 02

	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	37.55	0.68	19.31	27.71	34.74	27.02	40.00	-12.98	QP
2	60.28	0.80	12.83	27.66	35.13	21.10	40.00	-18.90	QP
3	88.65	1.29	12.97	27.62	36.01	22.65	43.50	-20.85	QP
4	143.33	1.15	13.84	27.37	43.12	30.74	43.50	-12.76	QP
5	272.28	1.81	18.55	26.94	36.53	29.95	46.00	-16.05	QP
6 pp	475.50	2.45	23.99	27.71	38.72	37.45	46.00	-8.55	QP

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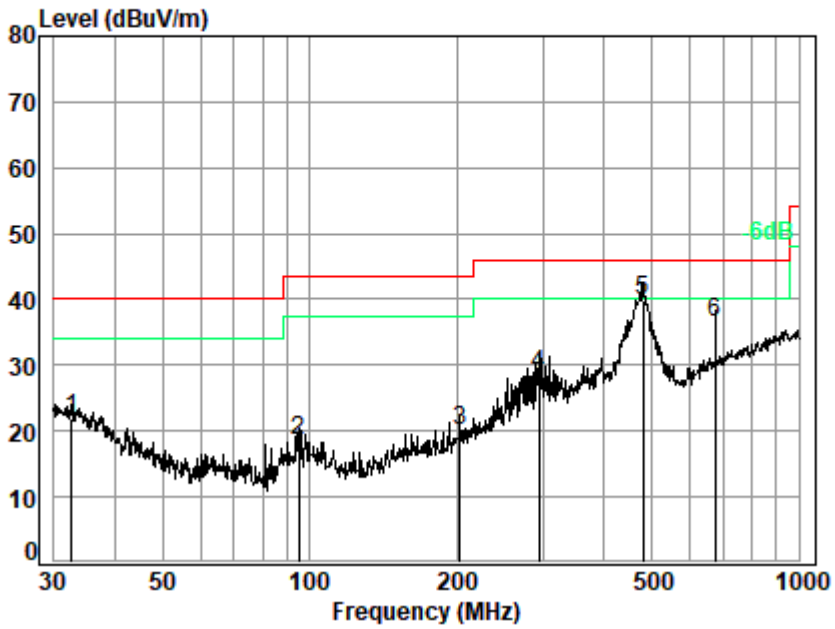
Test data for adapter2
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01123CR
Test Mode: 03
: 2#

	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	32.63	0.63	21.31	27.73	27.59	21.80	40.00	-18.20	QP
2	95.09	1.20	13.66	27.62	31.37	18.61	43.50	-24.89	QP
3	202.81	1.23	15.66	27.13	30.36	20.12	43.50	-23.38	QP
4	294.11	1.96	18.63	26.88	34.99	28.70	46.00	-17.30	QP
5 q	480.53	2.46	24.30	27.73	40.70	39.73	46.00	-6.27	QP
6	675.21	2.85	27.15	27.97	34.54	36.57	46.00	-9.43	QP

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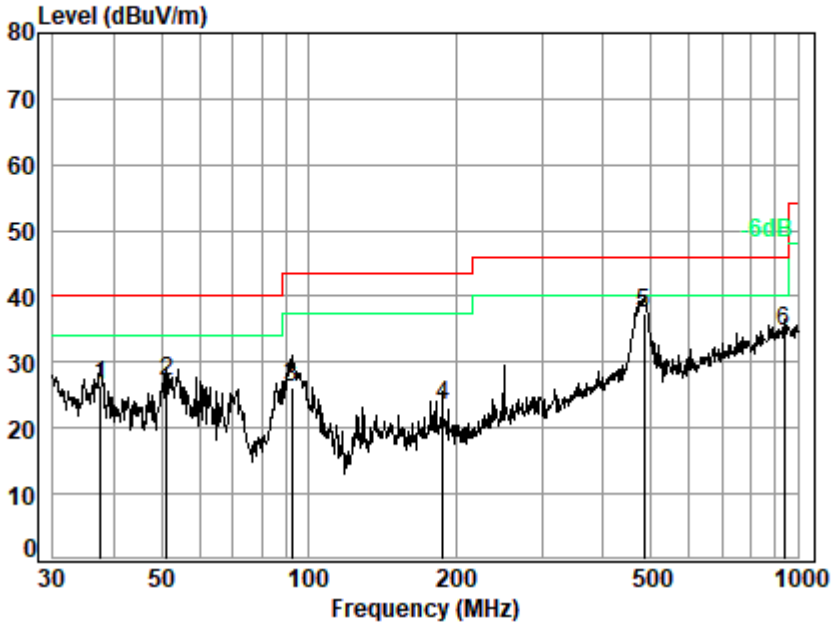
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No. : 01123CR
Test Mode: 03
: 2#

	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	37.55	0.68	19.31	27.71	34.33	26.61	40.00	-13.39	QP
2	51.30	0.71	13.71	27.68	40.24	26.98	40.00	-13.02	QP
3	92.14	1.26	13.50	27.62	38.97	26.11	43.50	-17.39	QP
4	187.75	1.19	15.48	27.19	34.03	23.51	43.50	-19.99	QP
5 q	485.61	2.47	24.30	27.75	38.48	37.50	46.00	-8.50	QP
6	938.83	3.54	29.20	26.96	29.02	34.80	46.00	-11.20	QP

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7.9 Radiated Emissions (Above 1GHz)

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Limit:	
Measurement Distance:	3m
Limit:	
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 (68.2dBuV/m).
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 (68.2dBuV/m).
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 (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of −27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) 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 (110.8dBuV/m) 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 (122.2dBuV/m) at the band edge.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

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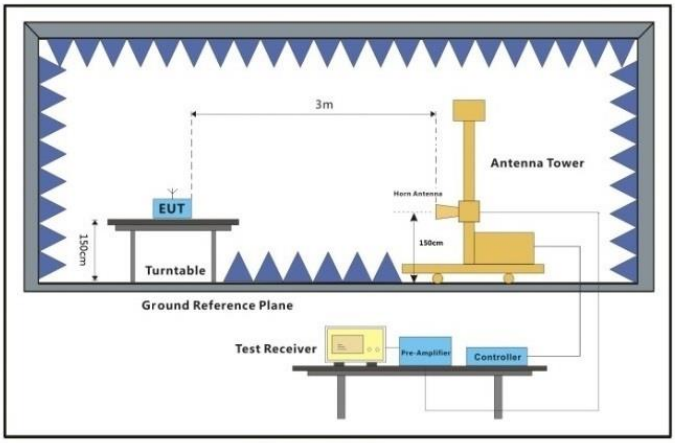
7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Above 1GHz

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7.9.4 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. Pretest the EUT at antenna 1, antenna 2, antenna 3 and antenna 4, found the antenna 3 which is worst case for 802.11a mode, Pretest the EUT at antenna 1, antenna 2, antenna 3, antenna 4 and MIMO mode, found the MIMO mode which is worst case for 802.11n/ac mode; So, Only the worst test data is recorded in the report.

5. Both Adapter1 and Adapter2 was tested fully, only record the worst test result(Adapter1).

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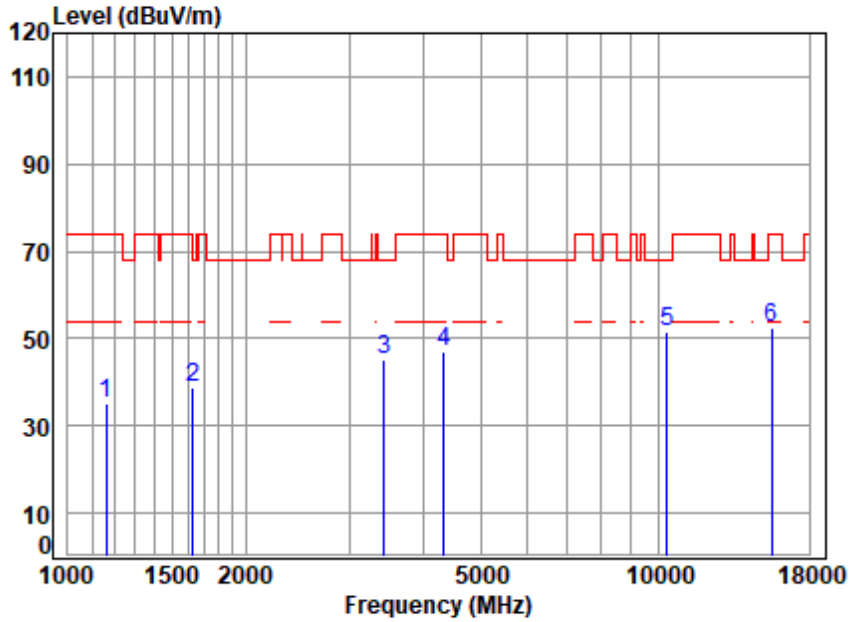
Test data for adapter1
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1162.182	2.69	24.42	39.73	47.75	35.13	74.00	-38.87	peak
2	1629.825	3.37	26.38	40.02	49.16	38.89	68.20	-29.31	peak
3	3435.590	5.44	31.60	41.03	49.25	45.26	68.20	-22.94	peak
4	4341.886	6.61	33.33	41.73	48.65	46.86	74.00	-27.14	peak
5	10360.000	10.57	37.76	37.29	40.66	51.70	68.20	-16.50	peak
6	15540.000	13.97	40.72	40.38	38.29	52.60	74.00	-21.40	peak

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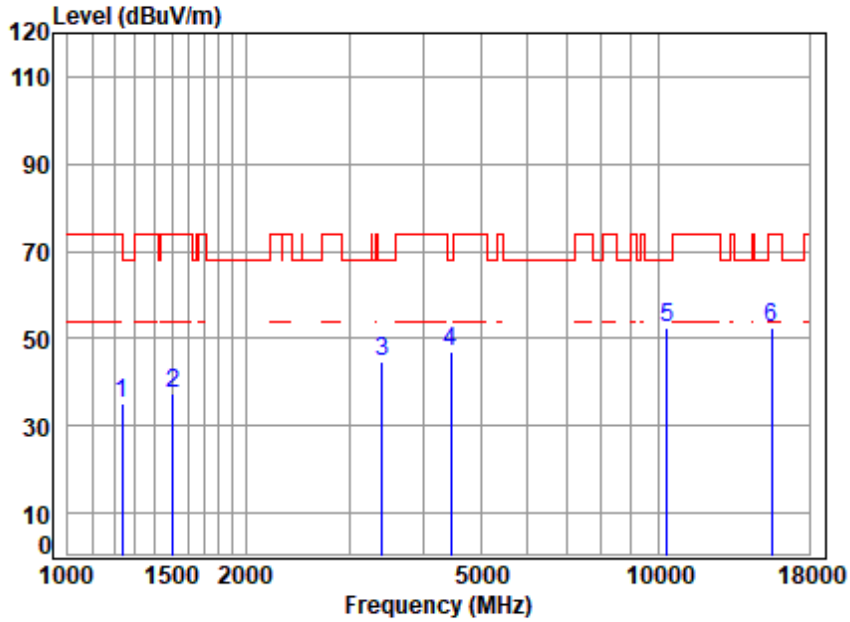
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1238.483	2.83	24.76	39.79	47.28	35.08	74.00	-38.92	peak
2	1507.470	3.27	25.83	39.96	48.34	37.48	74.00	-36.52	peak
3	3405.929	5.40	31.56	41.01	48.54	44.49	68.20	-23.71	peak
4	4456.315	6.72	33.53	41.84	48.57	46.98	68.20	-21.22	peak
5	10360.000	10.57	37.76	37.29	41.35	52.39	68.20	-15.81	peak
6	15540.000	13.97	40.72	40.38	37.94	52.25	74.00	-21.75	peak

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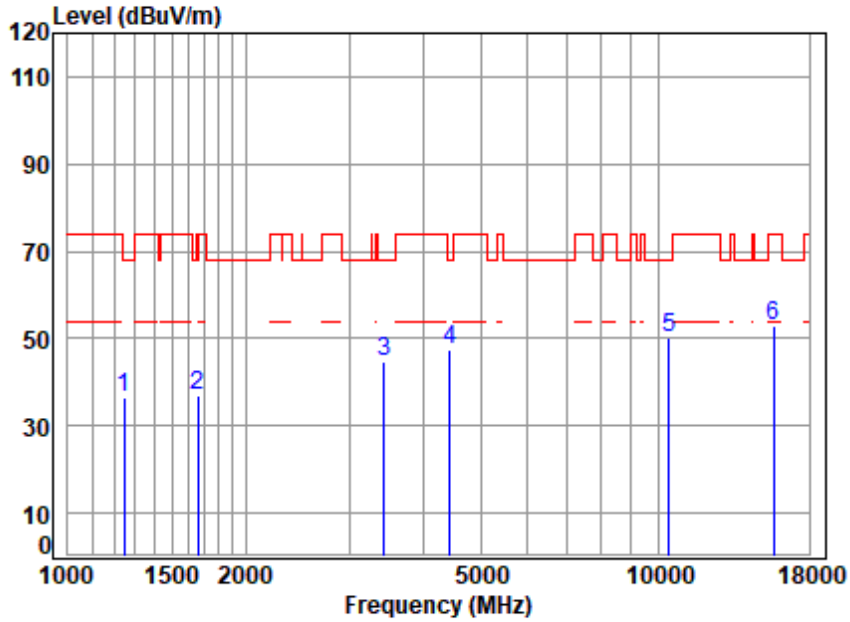
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5220 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	1245.663	2.85	24.79	39.79	48.47	36.32	68.20	-31.88	peak
2	1663.137	3.40	26.52	40.04	47.03	36.91	74.00	-37.09	peak
3	3435.590	5.44	31.60	41.03	48.59	44.60	68.20	-23.60	peak
4	4430.628	6.70	33.48	41.81	49.31	47.68	68.20	-20.52	peak
5	10440.000	10.55	37.72	37.34	39.34	50.27	68.20	-17.93	peak
6	15660.000	14.02	40.80	40.44	38.74	53.12	74.00	-20.88	peak

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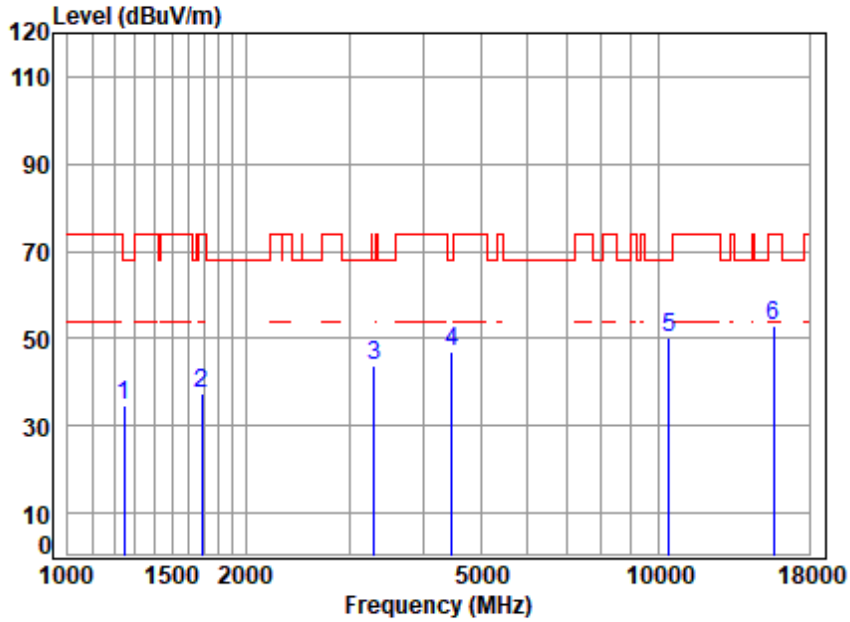
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5220 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	1245.663	2.85	24.79	39.79	46.78	34.63	68.20	-33.57	peak
2	1687.347	3.42	26.62	40.05	47.51	37.50	74.00	-36.50	peak
3	3308.894	5.28	31.41	40.94	48.26	44.01	68.20	-24.19	peak
4	4469.214	6.73	33.55	41.85	48.55	46.98	68.20	-21.22	peak
5	10440.000	10.55	37.72	37.34	39.36	50.29	68.20	-17.91	peak
6	15660.000	14.02	40.80	40.44	38.36	52.74	74.00	-21.26	peak

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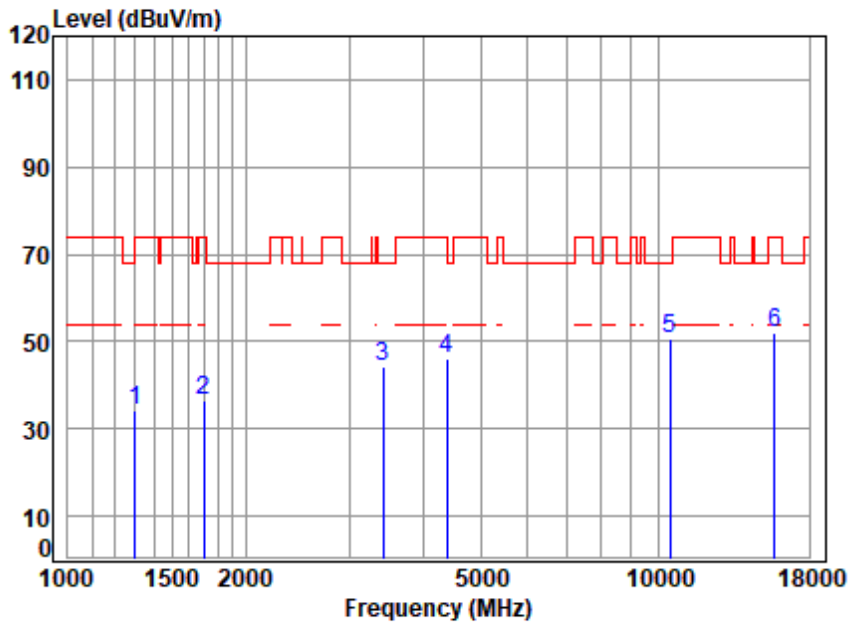
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1300.858	2.94	25.03	39.83	46.27	34.41	74.00	-39.59	peak
2	1697.129	3.43	26.66	40.06	46.52	36.55	74.00	-37.45	peak
3	3415.787	5.42	31.57	41.02	48.25	44.22	68.20	-23.98	peak
4	4379.699	6.65	33.39	41.77	47.88	46.15	74.00	-27.85	peak
5	10480.000	10.54	37.71	37.36	39.94	50.83	68.20	-17.37	peak
6	15720.000	14.04	40.83	40.47	37.76	52.16	74.00	-21.84	peak

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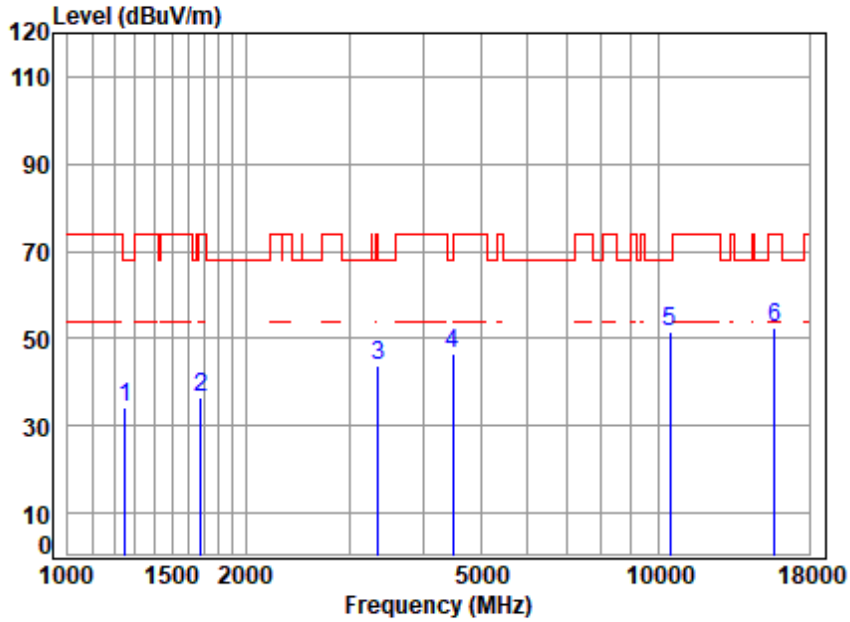
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1249.269	2.85	24.81	39.79	46.43	34.30	68.20	-33.90	peak
2	1682.477	3.42	26.60	40.05	46.76	36.73	74.00	-37.27	peak
3	3357.061	5.34	31.48	40.97	48.17	44.02	74.00	-29.98	peak
4	4482.150	6.74	33.57	41.86	48.25	46.70	68.20	-21.50	peak
5	10480.000	10.54	37.71	37.36	40.48	51.37	68.20	-16.83	peak
6	15720.000	14.04	40.83	40.47	38.19	52.59	74.00	-21.41	peak

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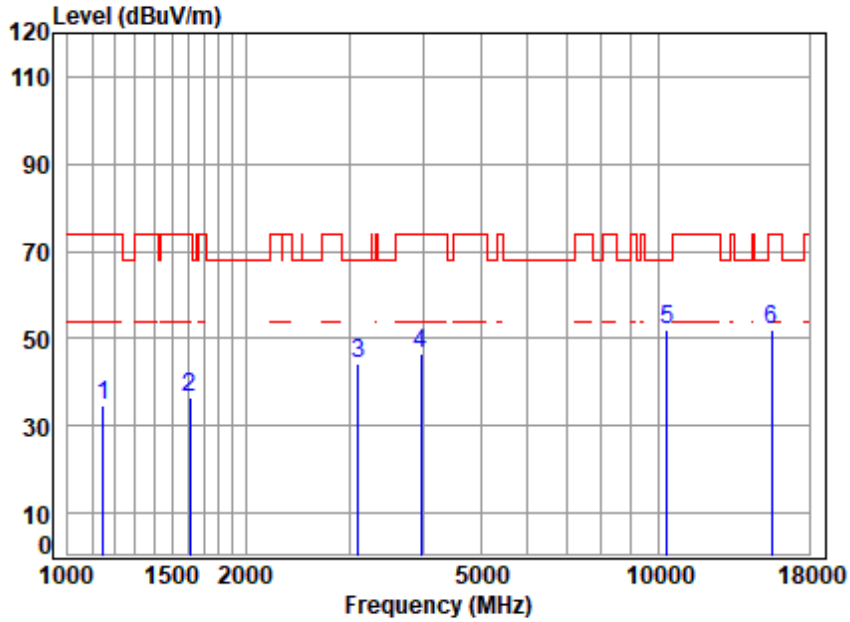
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1148.823	2.67	24.35	39.72	47.35	34.65	74.00	-39.35	peak
2	1611.091	3.36	26.30	40.01	46.86	36.51	74.00	-37.49	peak
3	3105.037	5.01	31.08	40.78	48.78	44.09	68.20	-24.11	peak
4	3958.309	6.22	32.62	41.37	49.17	46.64	74.00	-27.36	peak
5	10360.000	10.57	37.76	37.29	40.82	51.86	68.20	-16.34	peak
6	15540.000	13.97	40.72	40.38	37.87	52.18	74.00	-21.82	peak

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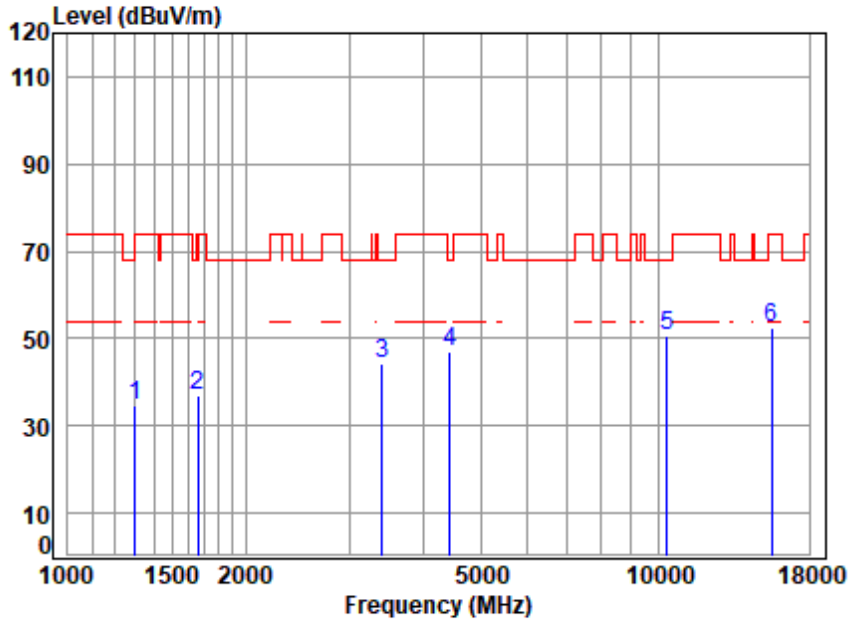
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1300.858	2.94	25.03	39.83	46.72	34.86	74.00	-39.14	peak
2	1658.337	3.40	26.50	40.04	46.99	36.85	68.20	-31.35	peak
3	3405.929	5.40	31.56	41.01	48.37	44.32	68.20	-23.88	peak
4	4430.628	6.70	33.48	41.81	48.66	47.03	68.20	-21.17	peak
5	10360.000	10.57	37.76	37.29	39.71	50.75	68.20	-17.45	peak
6	15540.000	13.97	40.72	40.38	38.24	52.55	74.00	-21.45	peak

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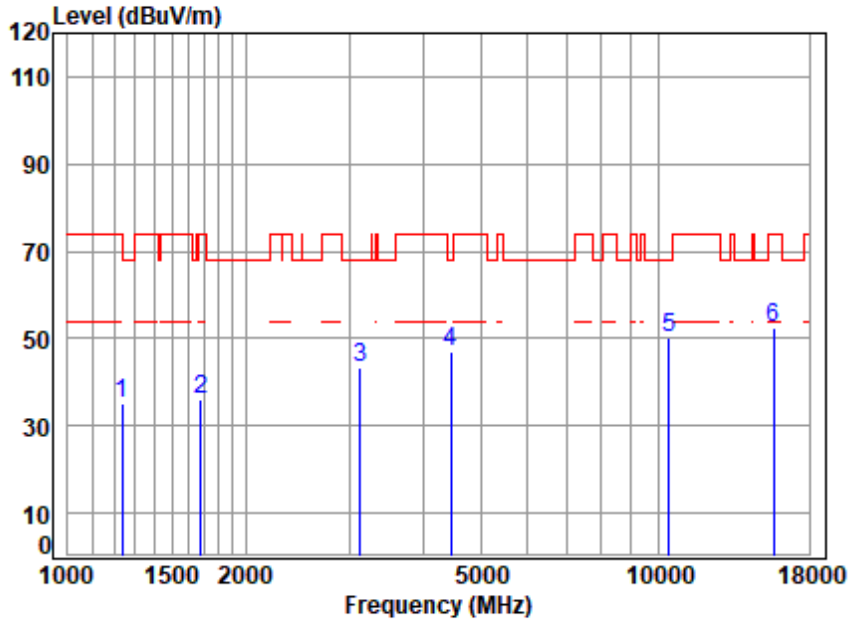
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5220 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	2.83	24.76	39.79	47.22	35.02	74.00	-38.98	peak
2	1682.477	3.42	26.60	40.05	46.17	36.14	74.00	-37.86	peak
3	3132.079	5.04	31.12	40.80	48.18	43.54	68.20	-24.66	peak
4	4456.315	6.72	33.53	41.84	48.59	47.00	68.20	-21.20	peak
5	10440.000	10.55	37.72	37.34	39.30	50.23	68.20	-17.97	peak
6	15660.000	14.02	40.80	40.44	37.94	52.32	74.00	-21.68	peak

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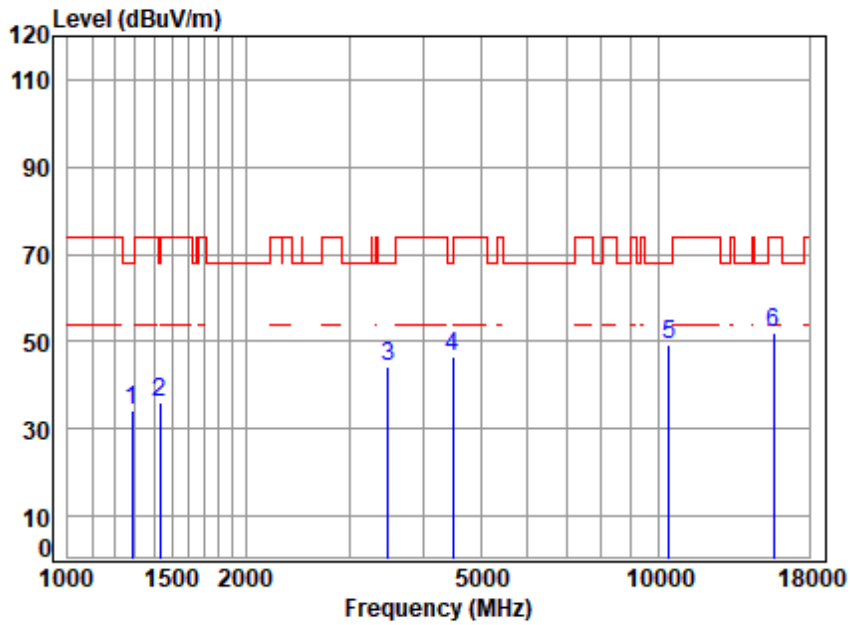
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5220 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	1285.904	2.92	24.96	39.82	46.33	34.39	68.20	-33.81	peak
2	1431.047	3.16	25.54	39.91	47.18	35.97	68.20	-32.23	peak
3	3485.601	5.50	31.68	41.07	48.33	44.44	68.20	-23.76	peak
4	4495.125	6.76	33.59	41.87	48.26	46.74	68.20	-21.46	peak
5	10440.000	10.55	37.72	37.34	38.27	49.20	68.20	-19.00	peak
6	15660.000	14.02	40.80	40.44	37.77	52.15	74.00	-21.85	peak

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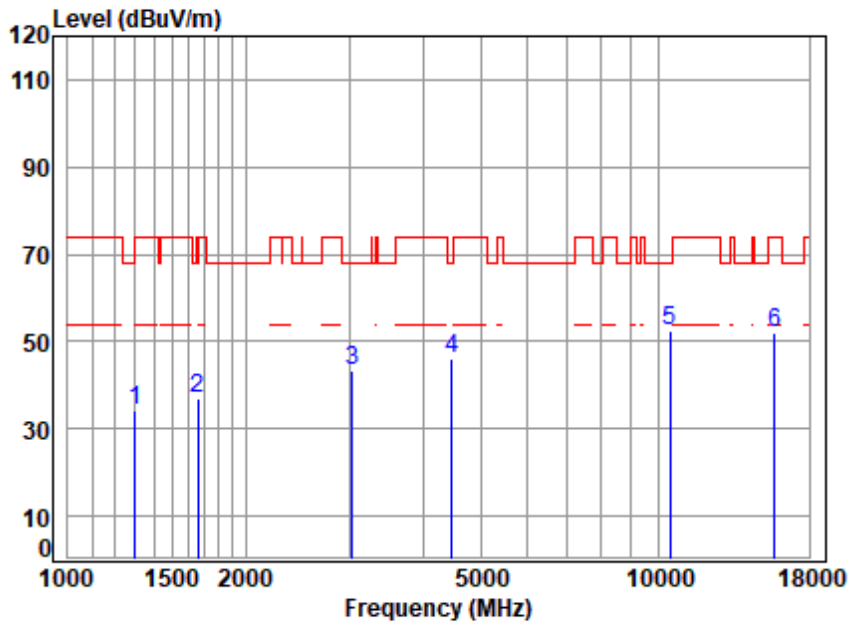
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1300.858	2.94	25.03	39.83	45.99	34.13	74.00	-39.87	peak
2	1658.337	3.40	26.50	40.04	47.28	37.14	68.20	-31.06	peak
3	3034.063	4.91	30.96	40.73	48.03	43.17	68.20	-25.03	peak
4	4469.214	6.73	33.55	41.85	47.66	46.09	68.20	-22.11	peak
5	10480.000	10.54	37.71	37.36	41.45	52.34	68.20	-15.86	peak
6	15720.000	14.04	40.83	40.47	37.78	52.18	74.00	-21.82	peak

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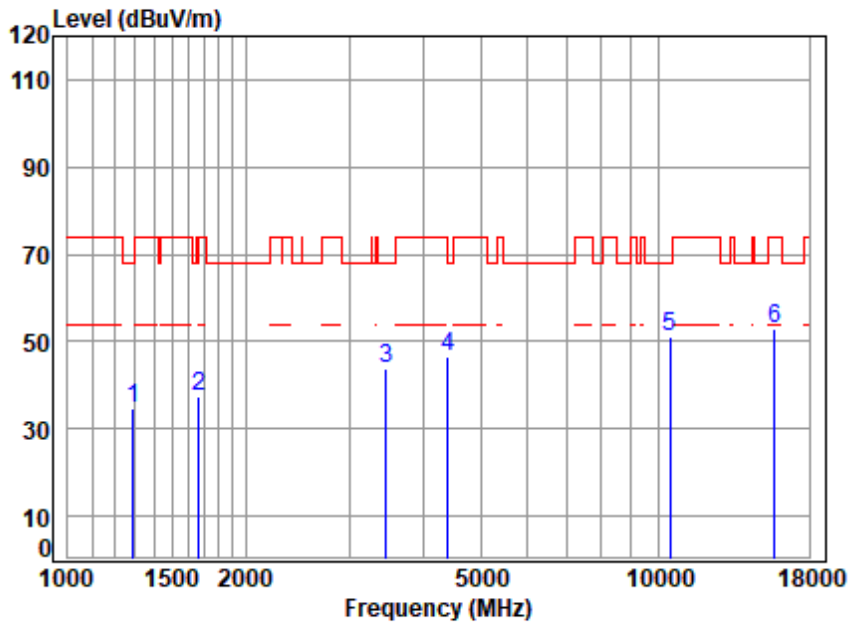
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1289.627	2.92	24.98	39.82	46.51	34.59	68.20	-33.61	peak
2	1667.951	3.40	26.54	40.04	47.34	37.24	74.00	-36.76	peak
3	3465.510	5.48	31.65	41.05	47.69	43.77	68.20	-24.43	peak
4	4405.090	6.67	33.44	41.79	48.19	46.51	68.20	-21.69	peak
5	10480.000	10.54	37.71	37.36	40.35	51.24	68.20	-16.96	peak
6	15720.000	14.04	40.83	40.47	38.33	52.73	74.00	-21.27	peak

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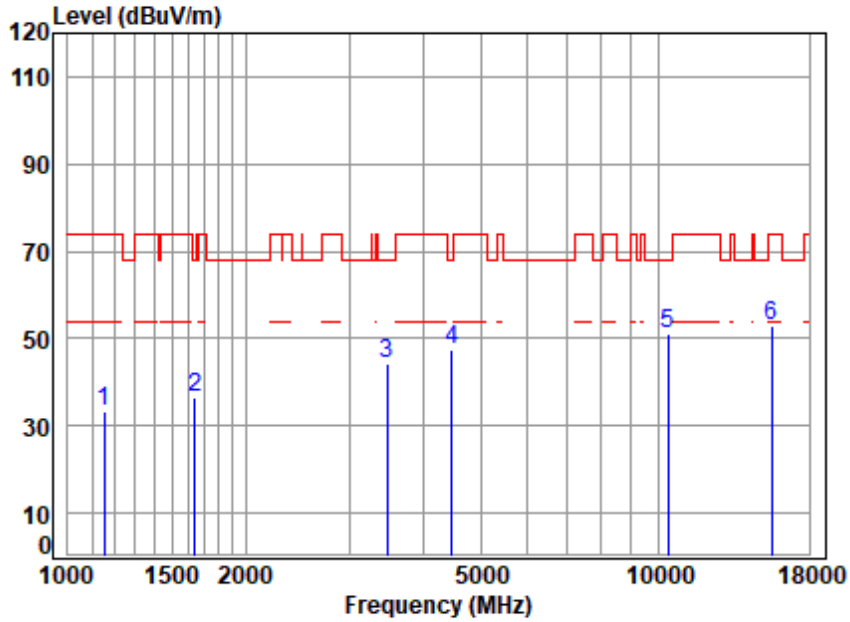
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1152.148	2.67	24.37	39.72	45.82	33.14	74.00	-40.86	peak
2	1639.274	3.38	26.42	40.03	46.50	36.27	68.20	-31.93	peak
3	3475.541	5.49	31.66	41.06	48.09	44.18	68.20	-24.02	peak
4	4469.214	6.73	33.55	41.85	48.81	47.24	68.20	-20.96	peak
5	10380.000	10.57	37.75	37.30	40.06	51.08	68.20	-17.12	peak
6	15570.000	13.98	40.74	40.40	38.66	52.98	74.00	-21.02	peak

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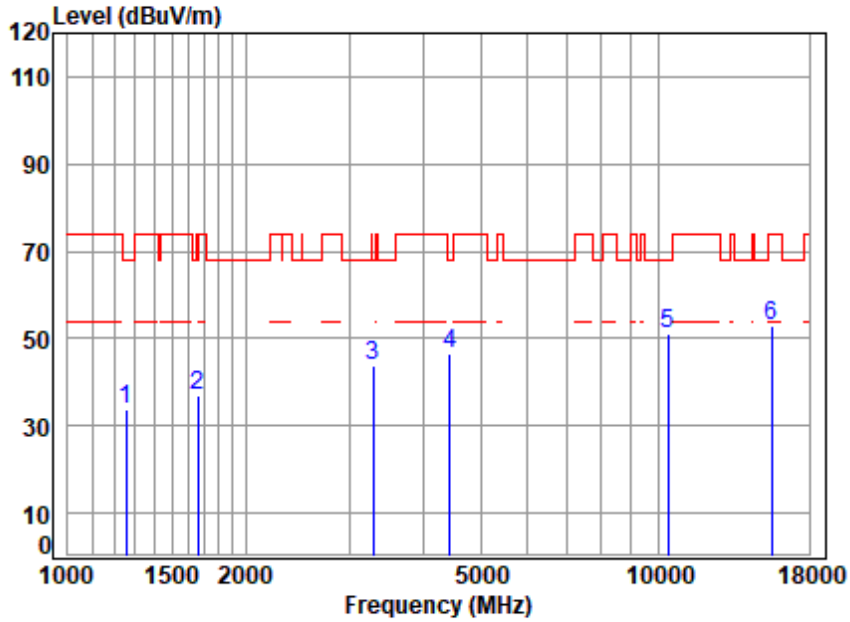
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1256.512	2.87	24.84	39.80	46.05	33.96	68.20	-34.24	peak
2	1658.337	3.40	26.50	40.04	47.09	36.95	68.20	-31.25	peak
3	3289.821	5.25	31.38	40.92	48.01	43.72	68.20	-24.48	peak
4	4443.453	6.71	33.50	41.82	48.33	46.72	68.20	-21.48	peak
5	10380.000	10.57	37.75	37.30	40.30	51.32	68.20	-16.88	peak
6	15570.000	13.98	40.74	40.40	38.40	52.72	74.00	-21.28	peak

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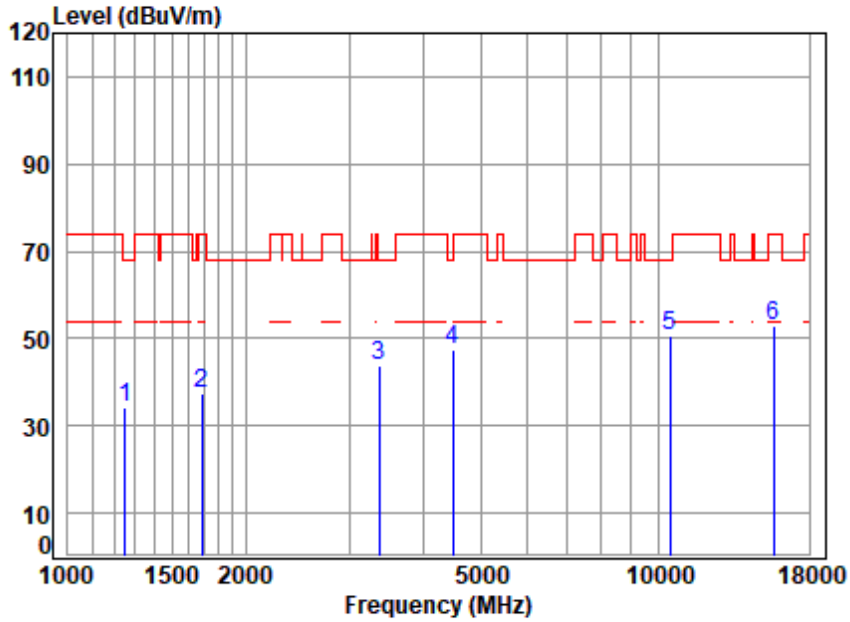
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1249.269	2.85	24.81	39.79	46.43	34.30	68.20	-33.90	peak
2	1687.347	3.42	26.62	40.05	47.25	37.24	74.00	-36.76	peak
3	3366.778	5.35	31.50	40.98	48.04	43.91	68.20	-24.29	peak
4	4482.150	6.74	33.57	41.86	49.02	47.47	68.20	-20.73	peak
5	10460.000	10.54	37.72	37.35	39.67	50.58	68.20	-17.62	peak
6	15690.000	14.03	40.82	40.45	38.33	52.73	74.00	-21.27	peak

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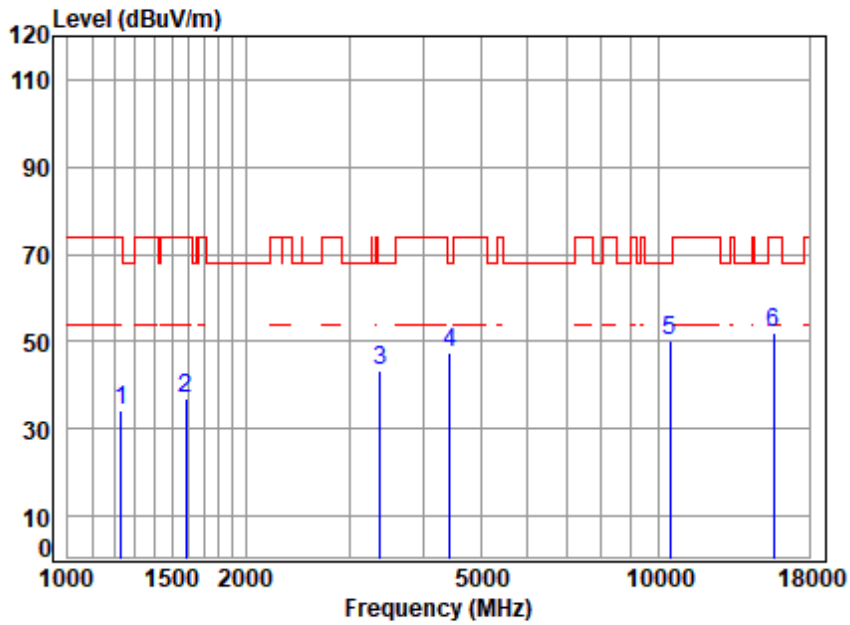
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1231.345	2.82	24.73	39.78	46.51	34.28	74.00	-39.72	peak
2	1583.392	3.33	26.18	40.00	47.32	36.83	74.00	-37.17	peak
3	3376.523	5.37	31.51	40.99	47.65	43.54	68.20	-24.66	peak
4	4430.628	6.70	33.48	41.81	49.06	47.43	68.20	-20.77	peak
5	10460.000	10.54	37.72	37.35	39.18	50.09	68.20	-18.11	peak
6	15690.000	14.03	40.82	40.45	37.77	52.17	74.00	-21.83	peak

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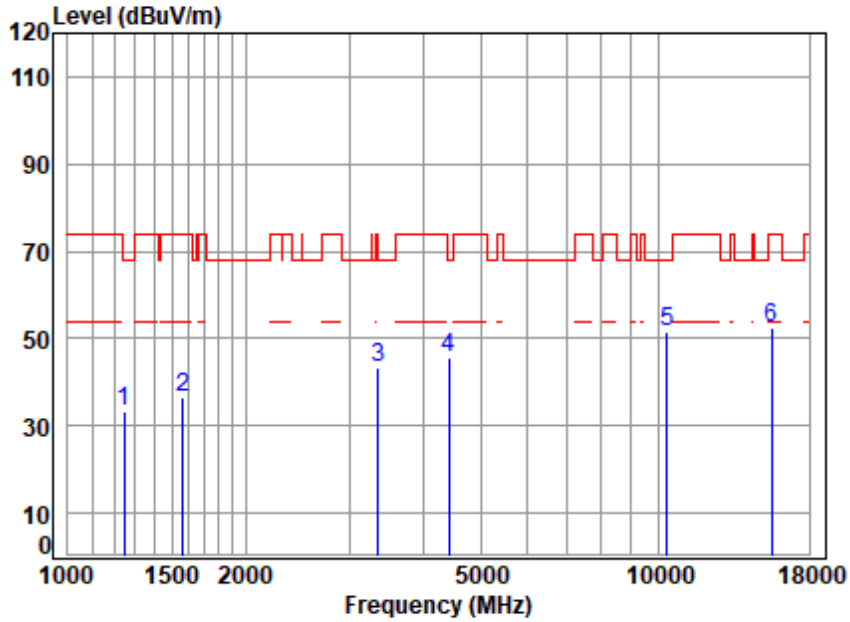
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	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	2.85	24.79	39.79	45.47	33.32	68.20	-34.88	peak
2	1569.721	3.32	26.12	39.99	46.95	36.40	74.00	-37.60	peak
3	3357.061	5.34	31.48	40.97	47.69	43.54	74.00	-30.46	peak
4	4417.841	6.68	33.46	41.80	47.47	45.81	68.20	-22.39	peak
5	10360.000	10.57	37.76	37.29	40.34	51.38	68.20	-16.82	peak
6	15540.000	13.97	40.72	40.38	38.24	52.55	74.00	-21.45	peak

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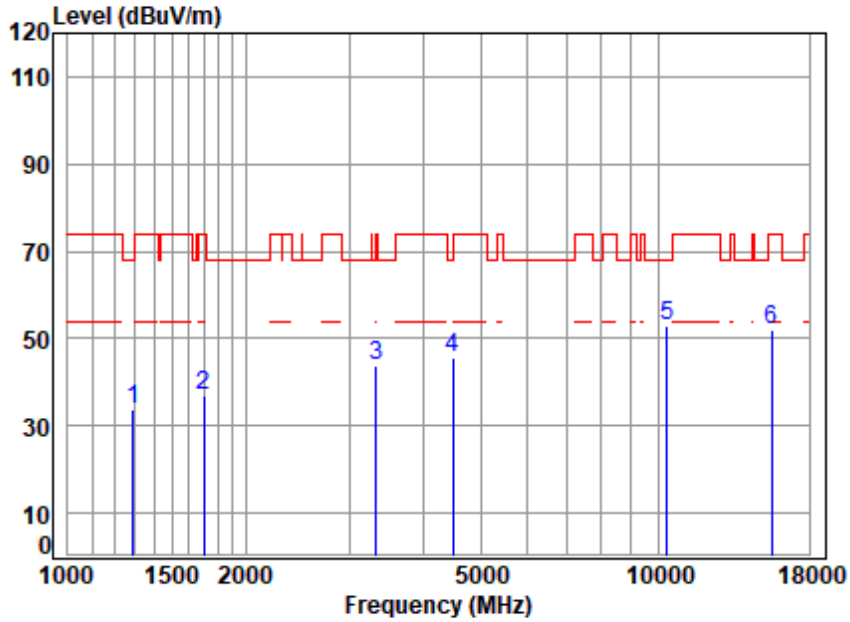
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	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	2.92	24.98	39.82	45.70	33.78	68.20	-34.42	peak
2	1702.042	3.43	26.68	40.06	46.82	36.87	74.00	-37.13	peak
3	3328.077	5.30	31.44	40.95	47.81	43.60	68.20	-24.60	peak
4	4482.150	6.74	33.57	41.86	47.25	45.70	68.20	-22.50	peak
5	10360.000	10.57	37.76	37.29	41.87	52.91	68.20	-15.29	peak
6	15540.000	13.97	40.72	40.38	37.79	52.10	74.00	-21.90	peak

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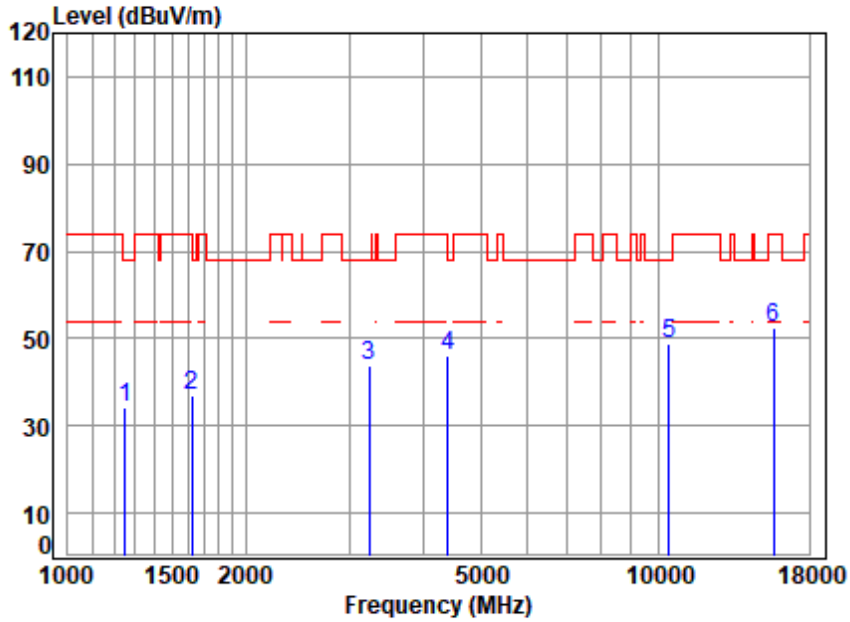
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

	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	1249.269	2.85	24.81	39.79	46.45	34.32	68.20	-33.88	peak
2	1620.431	3.36	26.34	40.02	47.26	36.94	74.00	-37.06	peak
3	3233.260	5.18	31.29	40.88	48.11	43.70	68.20	-24.50	peak
4	4405.090	6.67	33.44	41.79	47.87	46.19	68.20	-22.01	peak
5	10440.000	10.55	37.72	37.34	37.78	48.71	68.20	-19.49	peak
6	15660.000	14.02	40.80	40.44	38.11	52.49	74.00	-21.51	peak

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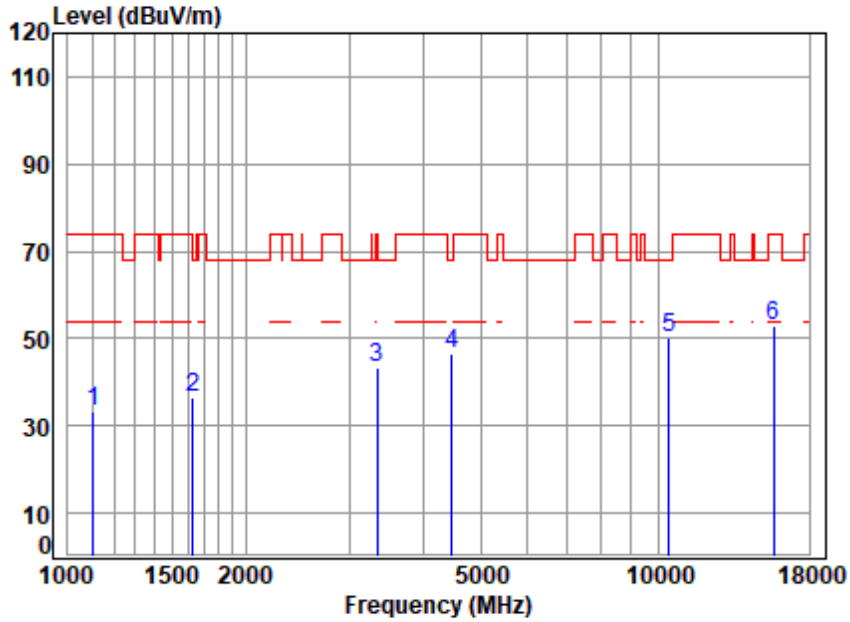
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

	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	1103.264	2.58	24.13	39.69	46.44	33.46	74.00	-40.54	peak
2	1629.825	3.37	26.38	40.02	46.57	36.30	68.20	-31.90	peak
3	3347.371	5.33	31.47	40.97	47.69	43.52	74.00	-30.48	peak
4	4469.214	6.73	33.55	41.85	48.21	46.64	68.20	-21.56	peak
5	10440.000	10.55	37.72	37.34	39.04	49.97	68.20	-18.23	peak
6	15660.000	14.02	40.80	40.44	38.49	52.87	74.00	-21.13	peak

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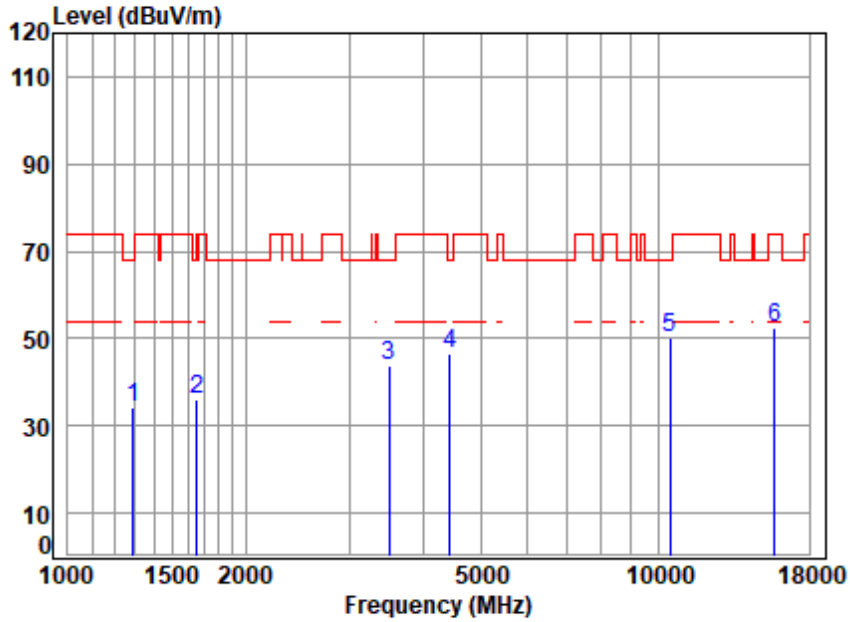
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	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	2.92	24.98	39.82	46.00	34.08	68.20	-34.12	peak
2	1653.550	3.39	26.48	40.04	46.27	36.10	68.20	-32.10	peak
3	3495.691	5.51	31.69	41.07	47.47	43.60	68.20	-24.60	peak
4	4443.453	6.71	33.50	41.82	47.99	46.38	68.20	-21.82	peak
5	10480.000	10.54	37.71	37.36	39.48	50.37	68.20	-17.83	peak
6	15720.000	14.04	40.83	40.47	38.03	52.43	74.00	-21.57	peak

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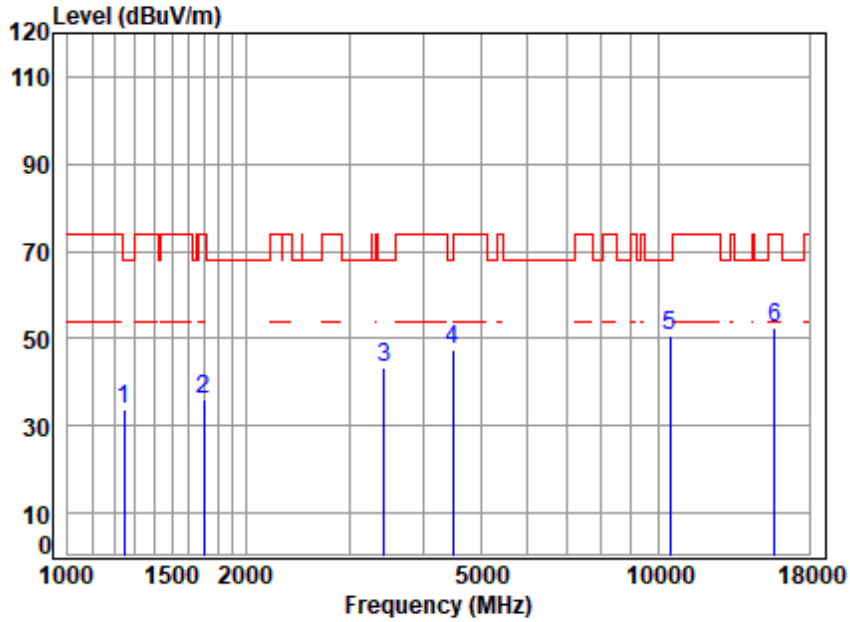
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	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	2.85	24.79	39.79	45.75	33.60	68.20	-34.60	peak
2	1697.129	3.43	26.66	40.06	46.14	36.17	74.00	-37.83	peak
3	3435.590	5.44	31.60	41.03	47.52	43.53	68.20	-24.67	peak
4	4482.150	6.74	33.57	41.86	48.90	47.35	68.20	-20.85	peak
5	10480.000	10.54	37.71	37.36	39.65	50.54	68.20	-17.66	peak
6	15720.000	14.04	40.83	40.47	37.92	52.32	74.00	-21.68	peak

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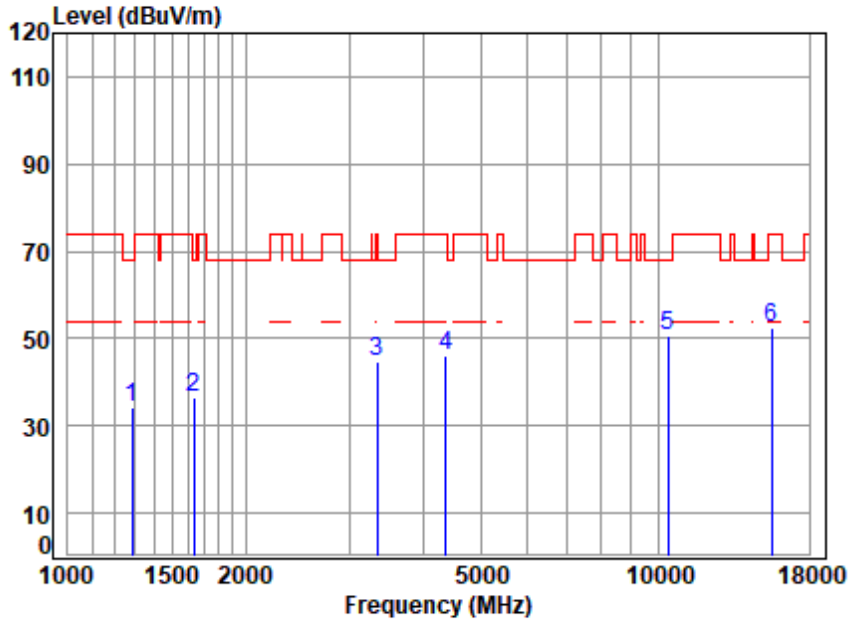
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	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	2.92	24.96	39.82	46.25	34.31	68.20	-33.89	peak
2	1634.543	3.38	26.40	40.03	46.94	36.69	68.20	-31.51	peak
3	3337.710	5.32	31.45	40.96	48.74	44.55	74.00	-29.45	peak
4	4367.058	6.64	33.37	41.75	47.71	45.97	74.00	-28.03	peak
5	10380.000	10.57	37.75	37.30	39.62	50.64	68.20	-17.56	peak
6	15570.000	13.98	40.74	40.40	38.22	52.54	74.00	-21.46	peak

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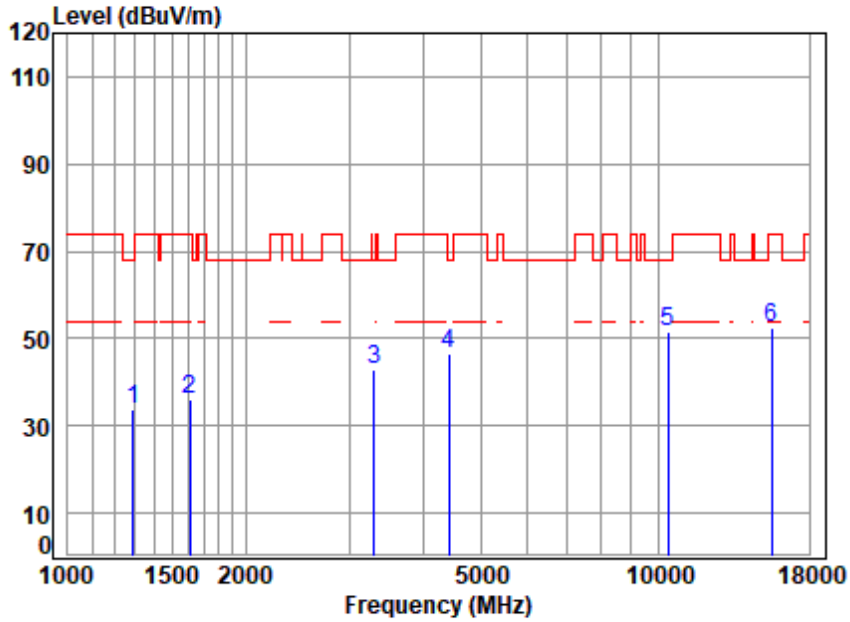
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	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	2.92	24.98	39.82	45.61	33.69	68.20	-34.51	peak
2	1611.091	3.36	26.30	40.01	46.57	36.22	74.00	-37.78	peak
3	3308.894	5.28	31.41	40.94	47.12	42.87	68.20	-25.33	peak
4	4417.841	6.68	33.46	41.80	48.17	46.51	68.20	-21.69	peak
5	10380.000	10.57	37.75	37.30	40.41	51.43	68.20	-16.77	peak
6	15570.000	13.98	40.74	40.40	38.15	52.47	74.00	-21.53	peak

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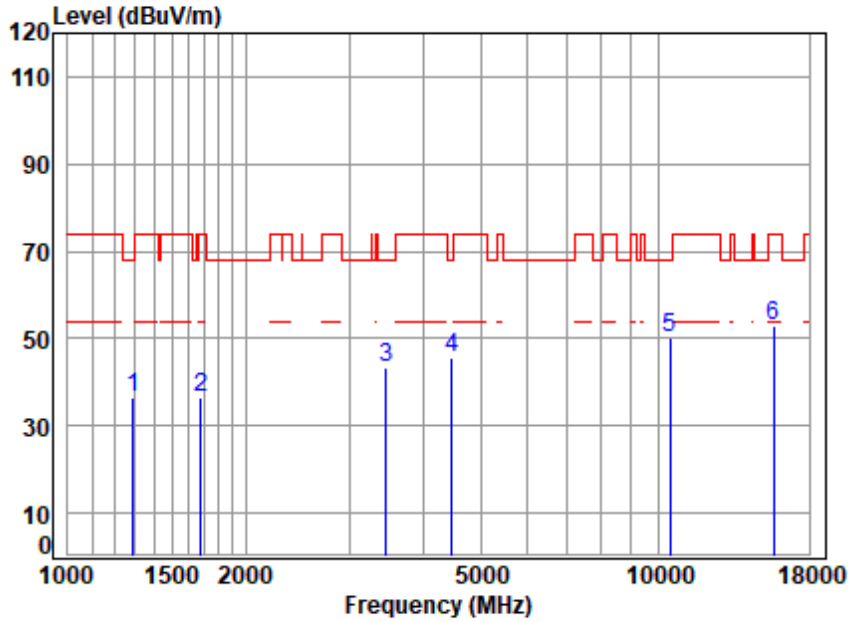
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	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	2.92	24.98	39.82	48.33	36.41	68.20	-31.79	peak
2	1677.621	3.41	26.58	40.05	46.42	36.36	74.00	-37.64	peak
3	3465.510	5.48	31.65	41.05	47.20	43.28	68.20	-24.92	peak
4	4469.214	6.73	33.55	41.85	47.16	45.59	68.20	-22.61	peak
5	10460.000	10.54	37.72	37.35	39.46	50.37	68.20	-17.83	peak
6	15690.000	14.03	40.82	40.45	38.69	53.09	74.00	-20.91	peak

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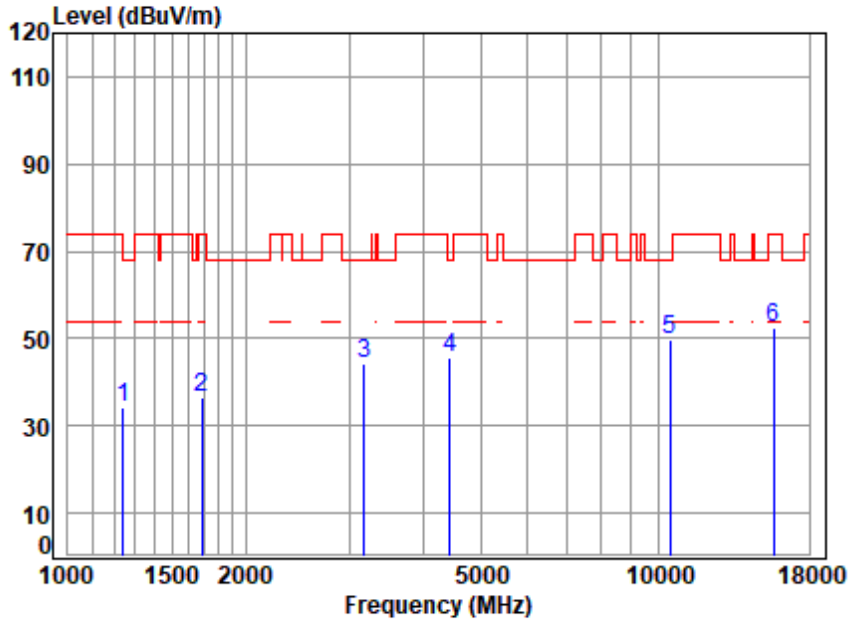
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	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	2.84	24.78	39.79	46.27	34.10	68.20	-34.10	peak
2	1687.347	3.42	26.62	40.05	46.29	36.28	74.00	-37.72	peak
3	3177.672	5.11	31.20	40.84	48.73	44.20	68.20	-24.00	peak
4	4430.628	6.70	33.48	41.81	47.34	45.71	68.20	-22.49	peak
5	10460.000	10.54	37.72	37.35	38.94	49.85	68.20	-18.35	peak
6	15690.000	14.03	40.82	40.45	38.27	52.67	74.00	-21.33	peak

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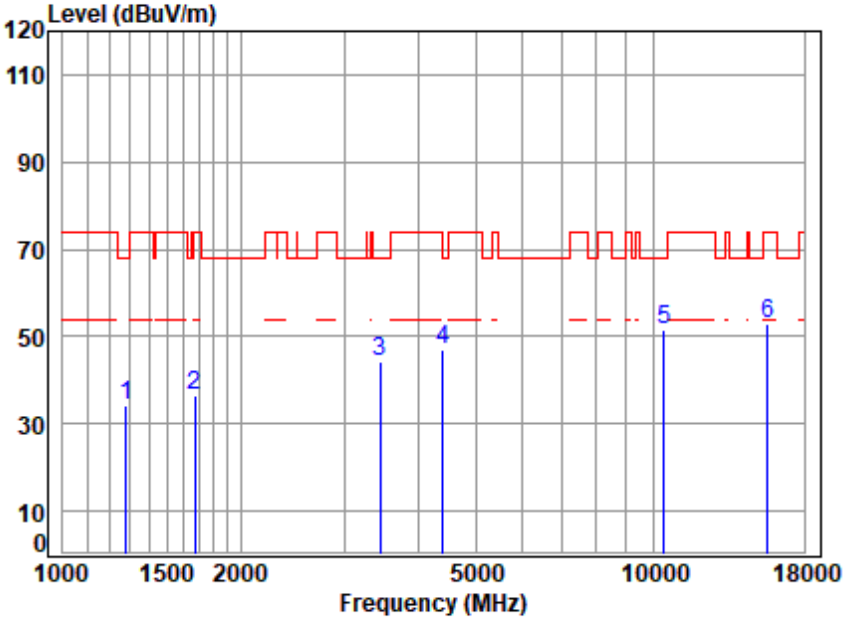
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

	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	2.91	24.93	39.81	45.97	34.00	68.20	-34.20	peak
2	1672.779	3.41	26.56	40.05	46.69	36.61	74.00	-37.39	peak
3	3445.535	5.45	31.62	41.04	48.05	44.08	68.20	-24.12	peak
4	4405.090	6.67	33.44	41.79	48.58	46.90	68.20	-21.30	peak
5	10420.000	10.56	37.73	37.33	40.42	51.38	68.20	-16.82	peak
6	15630.000	14.01	40.78	40.42	38.36	52.73	74.00	-21.27	peak

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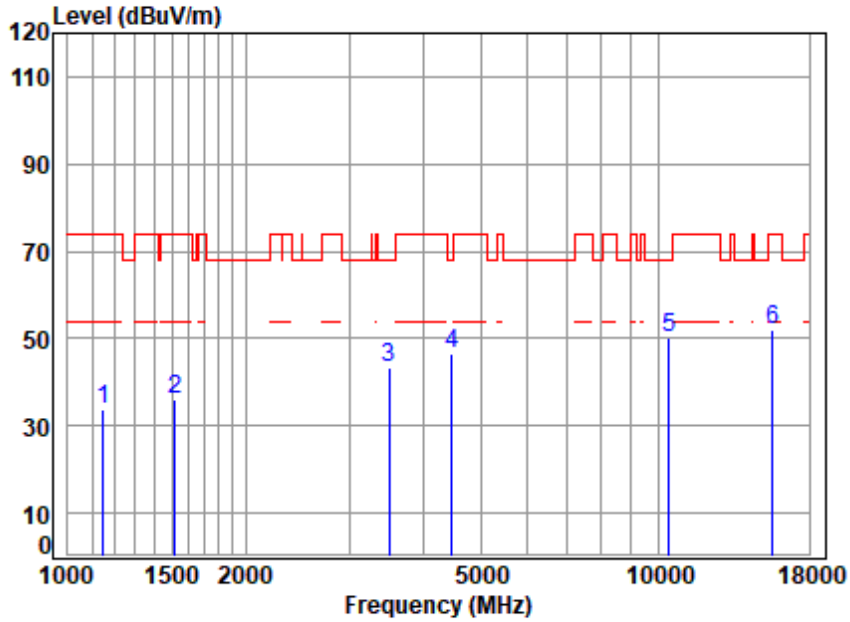
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

	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	1148.823	2.67	24.35	39.72	46.61	33.91	74.00	-40.09	peak
2	1516.210	3.27	25.87	39.96	46.70	35.88	74.00	-38.12	peak
3	3495.691	5.51	31.69	41.07	47.21	43.34	68.20	-24.86	peak
4	4469.214	6.73	33.55	41.85	48.05	46.48	68.20	-21.72	peak
5	10420.000	10.56	37.73	37.33	39.42	50.38	68.20	-17.82	peak
6	15630.000	14.01	40.78	40.42	37.83	52.20	74.00	-21.80	peak

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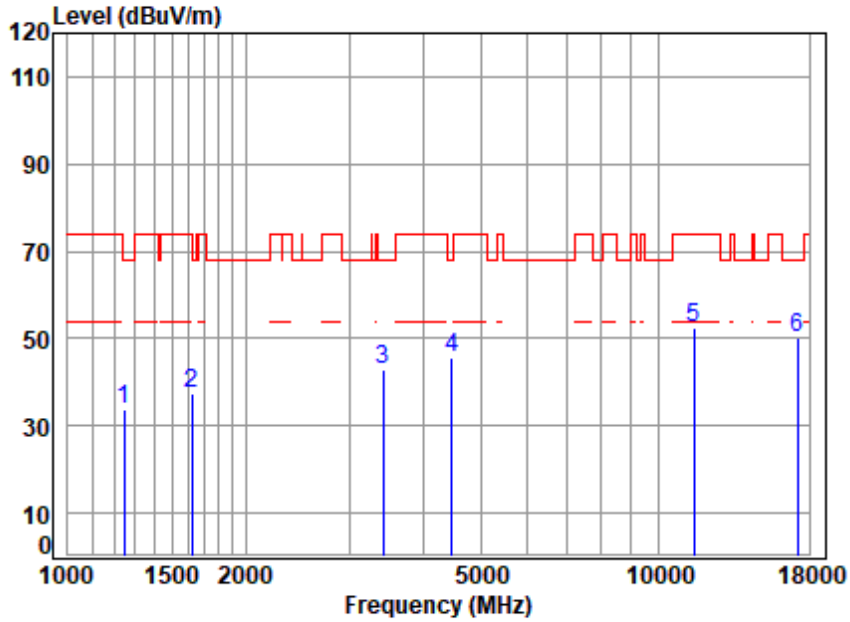
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1245.663	2.85	24.79	39.79	45.88	33.73	68.20	-34.47	peak
2	1625.121	3.37	26.36	40.02	47.55	37.26	74.00	-36.74	peak
3	3425.675	5.43	31.59	41.02	46.99	42.99	68.20	-25.21	peak
4	4469.214	6.73	33.55	41.85	47.24	45.67	68.20	-22.53	peak
5	11490.000	11.62	37.90	37.86	40.86	52.52	74.00	-21.48	peak
6	17235.000	14.09	42.74	40.28	33.82	50.37	68.20	-17.83	peak

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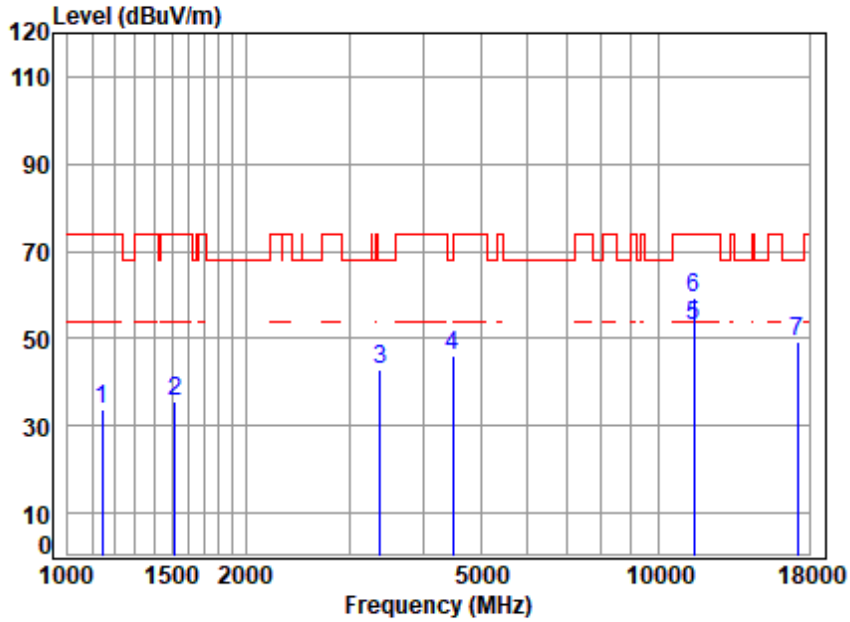
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1142.201	2.66	24.32	39.72	46.38	33.64	74.00	-40.36	peak
2	1516.210	3.27	25.87	39.96	46.56	35.74	74.00	-38.26	peak
3	3386.297	5.38	31.53	40.99	47.09	43.01	68.20	-25.19	peak
4	4482.150	6.74	33.57	41.86	47.56	46.01	68.20	-22.19	peak
5	11490.000	11.62	37.90	37.86	41.23	52.89	54.00	-1.11	Average
6	11490.000	11.62	37.90	37.86	47.45	59.11	74.00	-14.89	peak
7	17235.000	14.09	42.74	40.28	32.78	49.33	68.20	-18.87	peak

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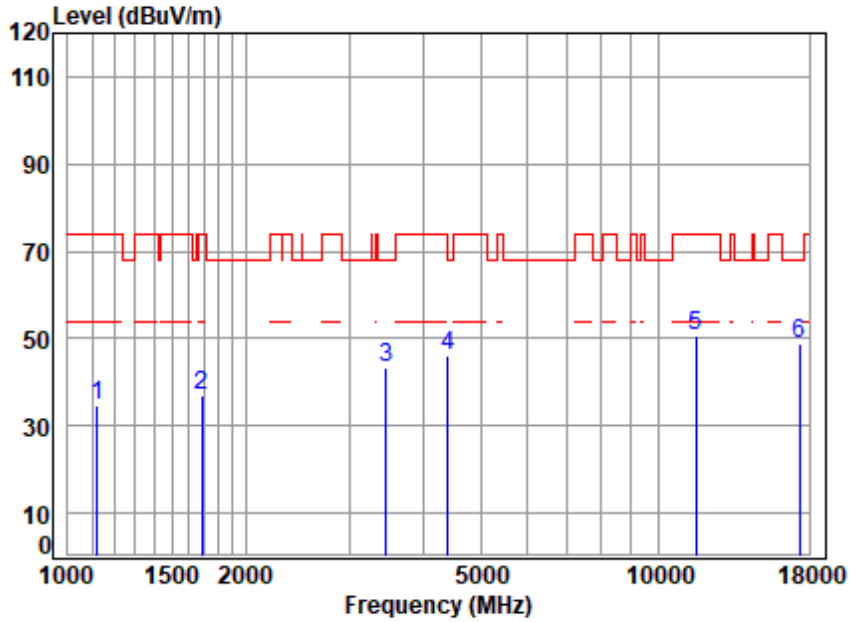
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1122.563	2.62	24.23	39.70	47.36	34.51	74.00	-39.49	peak
2	1687.347	3.42	26.62	40.05	46.79	36.78	74.00	-37.22	peak
3	3465.510	5.48	31.65	41.05	47.12	43.20	68.20	-25.00	peak
4	4405.090	6.67	33.44	41.79	47.61	45.93	68.20	-22.27	peak
5	11570.000	11.72	37.87	37.90	38.83	50.52	74.00	-23.48	peak
6	17355.000	14.06	42.81	40.25	32.05	48.67	68.20	-19.53	peak

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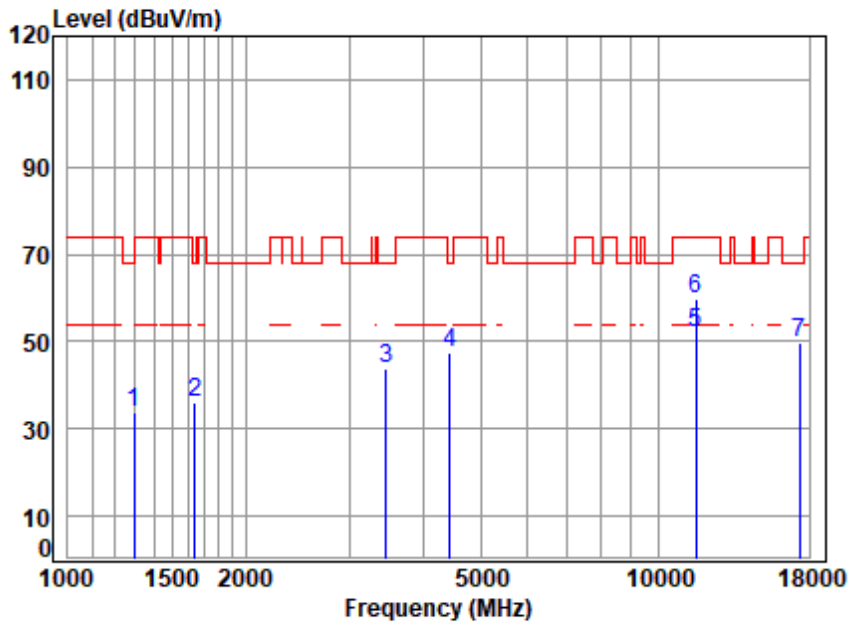
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1293.359	2.93	25.00	39.82	45.49	33.60	68.20	-34.60	peak
2	1644.019	3.38	26.44	40.03	46.07	35.86	68.20	-32.34	peak
3	3455.508	5.47	31.63	41.04	47.72	43.78	68.20	-24.42	peak
4	4443.453	6.71	33.50	41.82	48.84	47.23	68.20	-20.97	peak
5	11570.000	11.72	37.87	37.90	40.35	52.04	54.00	-1.96	Average
6	11570.000	11.72	37.87	37.90	47.90	59.59	74.00	-14.41	peak
7	17355.000	14.06	42.81	40.25	33.25	49.87	68.20	-18.33	peak

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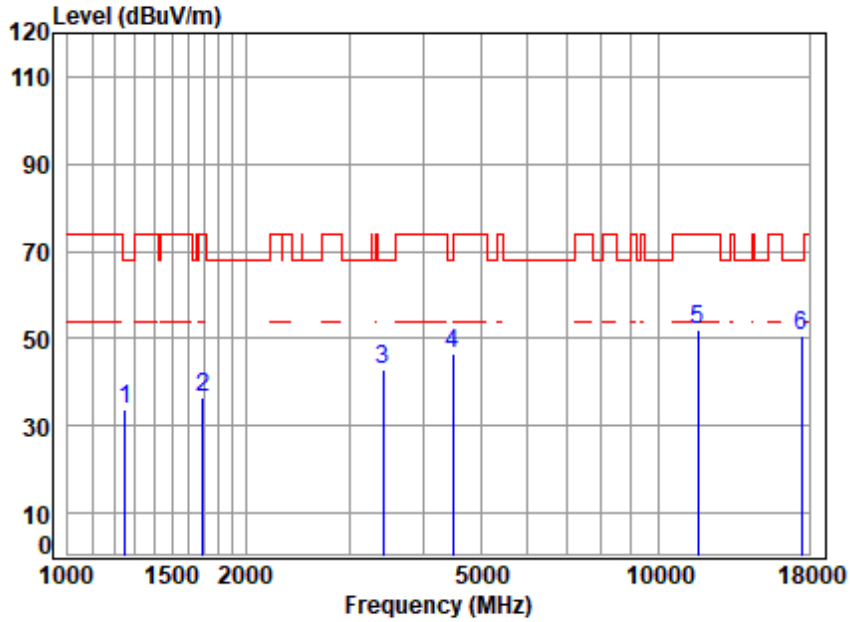
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1249.269	2.85	24.81	39.79	45.69	33.56	68.20	-34.64	peak
2	1692.231	3.42	26.64	40.06	46.36	36.36	74.00	-37.64	peak
3	3425.675	5.43	31.59	41.02	46.89	42.89	68.20	-25.31	peak
4	4482.150	6.74	33.57	41.86	48.04	46.49	68.20	-21.71	peak
5	11650.000	11.82	37.84	37.94	40.44	52.16	74.00	-21.84	peak
6	17475.000	14.02	42.89	40.23	34.09	50.77	68.20	-17.43	peak

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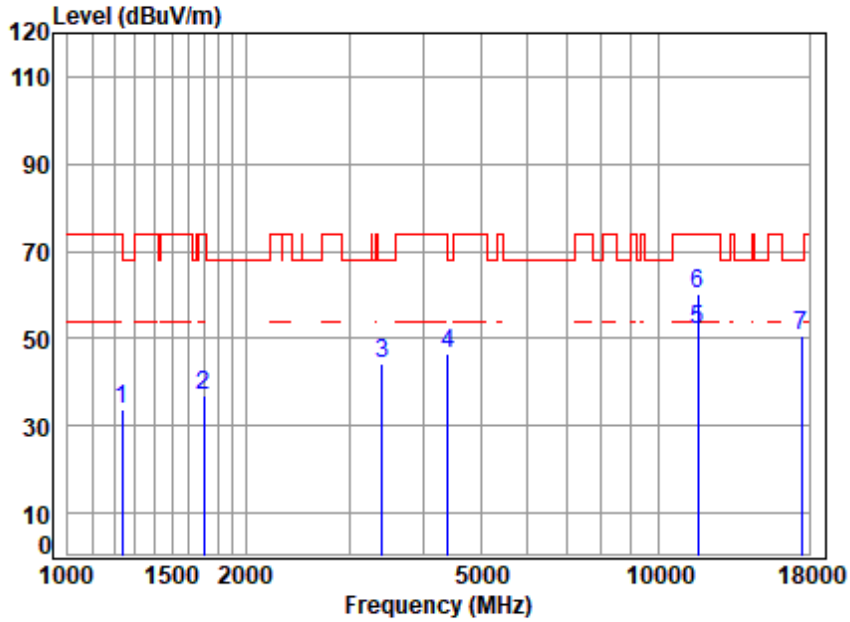
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1238.483	2.83	24.76	39.79	45.84	33.64	74.00	-40.36	peak
2	1702.042	3.43	26.68	40.06	46.80	36.85	74.00	-37.15	peak
3	3405.929	5.40	31.56	41.01	48.33	44.28	68.20	-23.92	peak
4	4405.090	6.67	33.44	41.79	48.24	46.56	68.20	-21.64	peak
5	11650.000	11.82	37.84	37.94	40.36	52.08	54.00	-1.92	Average
6	11650.000	11.82	37.84	37.94	48.48	60.20	74.00	-13.80	peak
7	17475.000	14.02	42.89	40.23	33.99	50.67	68.20	-17.53	peak

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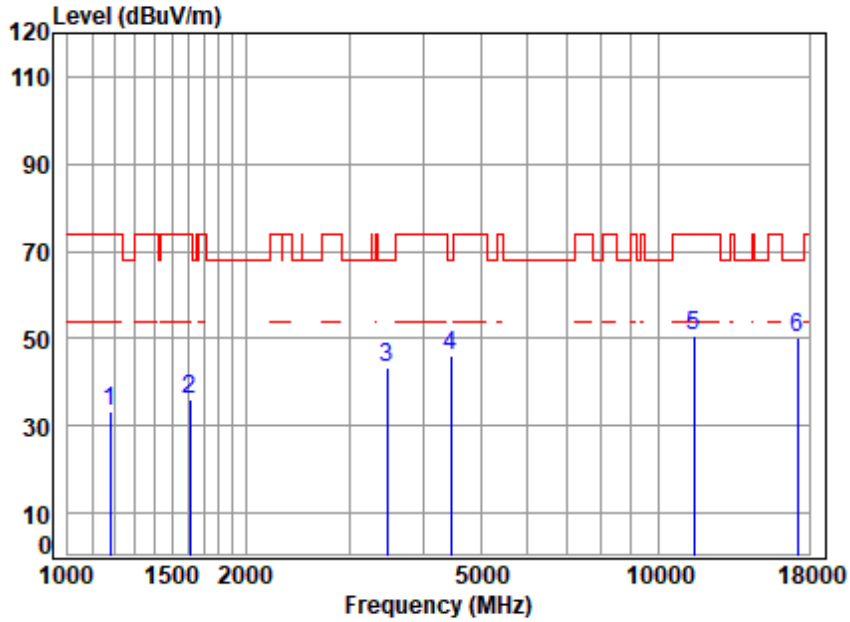
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1179.100	2.73	24.49	39.74	45.62	33.10	74.00	-40.90	peak
2	1611.091	3.36	26.30	40.01	46.31	35.96	74.00	-38.04	peak
3	3475.541	5.49	31.66	41.06	47.12	43.21	68.20	-24.99	peak
4	4456.315	6.72	33.53	41.84	47.50	45.91	68.20	-22.29	peak
5	11490.000	11.62	37.90	37.86	38.86	50.52	74.00	-23.48	peak
6	17235.000	14.09	42.74	40.28	33.77	50.32	68.20	-17.88	peak

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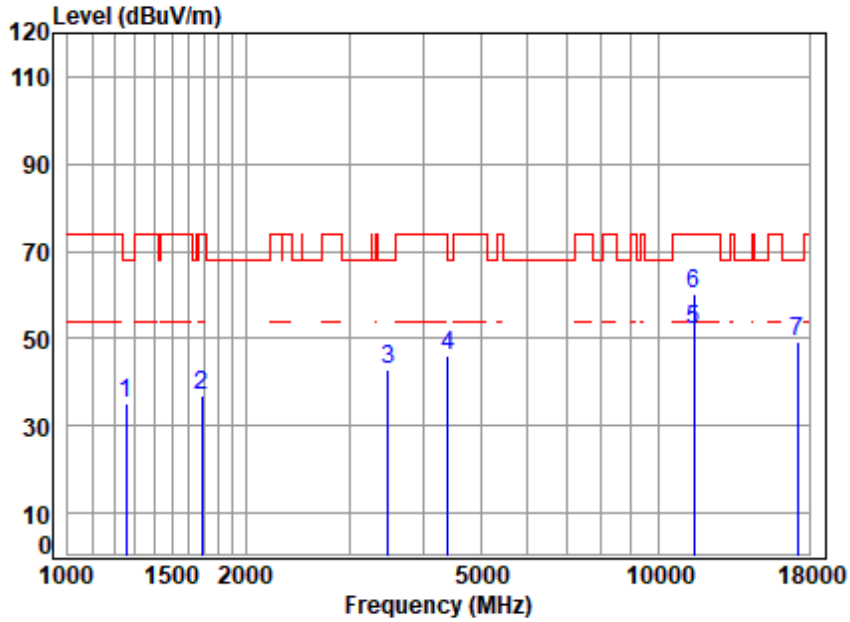
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1256.512	2.87	24.84	39.80	47.31	35.22	68.20	-32.98	peak
2	1687.347	3.42	26.62	40.05	46.85	36.84	74.00	-37.16	peak
3	3485.601	5.50	31.68	41.07	46.93	43.04	68.20	-25.16	peak
4	4405.090	6.67	33.44	41.79	47.92	46.24	68.20	-21.96	peak
5	11490.000	11.62	37.90	37.86	40.35	52.01	54.00	-1.99	Average
6	11490.000	11.62	37.90	37.86	48.41	60.07	74.00	-13.93	peak
7	17235.000	14.09	42.74	40.28	32.90	49.45	68.20	-18.75	peak

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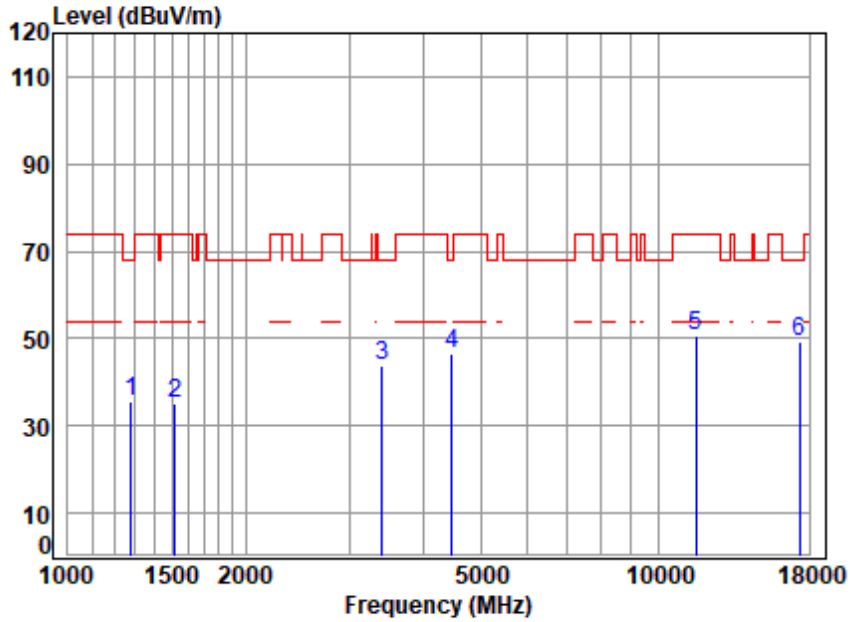
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1282.193	2.91	24.95	39.82	47.48	35.52	68.20	-32.68	peak
2	1516.210	3.27	25.87	39.96	46.09	35.27	74.00	-38.73	peak
3	3405.929	5.40	31.56	41.01	48.02	43.97	68.20	-24.23	peak
4	4469.214	6.73	33.55	41.85	48.21	46.64	68.20	-21.56	peak
5	11570.000	11.72	37.87	37.90	38.86	50.55	74.00	-23.45	peak
6	17355.000	14.06	42.81	40.25	32.70	49.32	68.20	-18.88	peak

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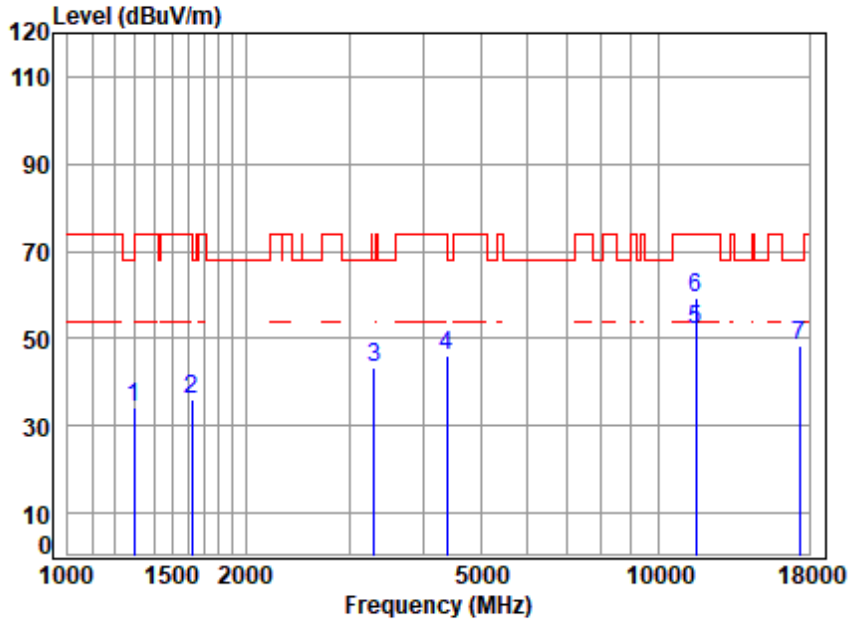
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1297.103	2.94	25.01	39.83	46.31	34.43	68.20	-33.77	peak
2	1620.431	3.36	26.34	40.02	46.40	36.08	74.00	-37.92	peak
3	3299.344	5.27	31.39	40.93	47.76	43.49	68.20	-24.71	peak
4	4392.376	6.66	33.42	41.78	47.78	46.08	74.00	-27.92	peak
5	11570.000	11.72	37.87	37.90	40.36	52.05	54.00	-1.95	Average
6	11570.000	11.72	37.87	37.90	47.54	59.23	74.00	-14.77	peak
7	17355.000	14.06	42.81	40.25	31.70	48.32	68.20	-19.88	peak

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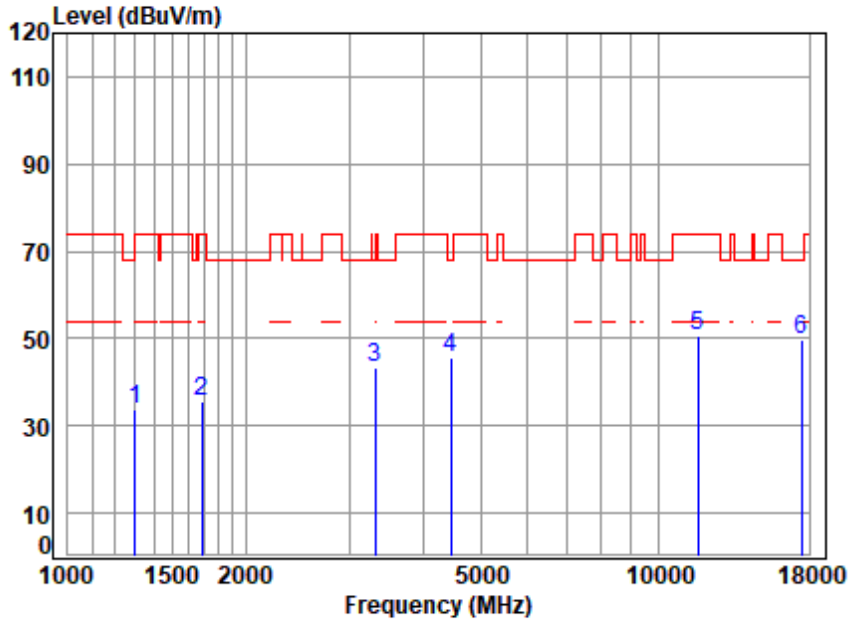
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1300.858	2.94	25.03	39.83	45.49	33.63	74.00	-40.37	peak
2	1687.347	3.42	26.62	40.05	45.52	35.51	74.00	-38.49	peak
3	3318.471	5.29	31.42	40.95	47.71	43.47	68.20	-24.73	peak
4	4456.315	6.72	33.53	41.84	47.28	45.69	68.20	-22.51	peak
5	11650.000	11.82	37.84	37.94	38.93	50.65	74.00	-23.35	peak
6	17475.000	14.02	42.89	40.23	32.99	49.67	68.20	-18.53	peak

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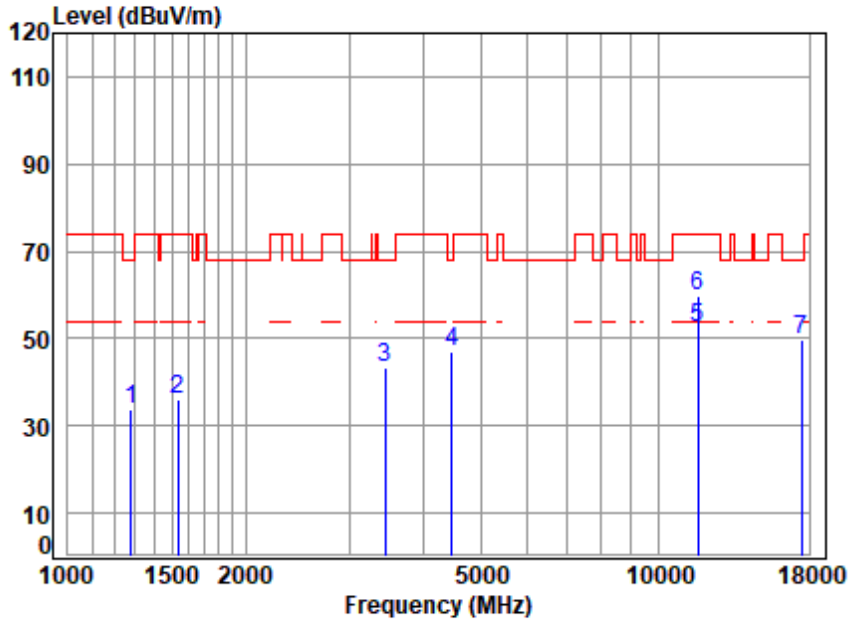
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1282.193	2.91	24.95	39.82	45.67	33.71	68.20	-34.49	peak
2	1533.841	3.29	25.96	39.97	46.71	35.99	74.00	-38.01	peak
3	3445.535	5.45	31.62	41.04	47.22	43.25	68.20	-24.95	peak
4	4469.214	6.73	33.55	41.85	48.36	46.79	68.20	-21.41	peak
5	11650.000	11.82	37.84	37.94	40.54	52.26	54.00	-1.74	Average
6	11650.000	11.82	37.84	37.94	48.05	59.77	74.00	-14.23	peak
7	17475.000	14.02	42.89	40.23	33.02	49.70	68.20	-18.50	peak

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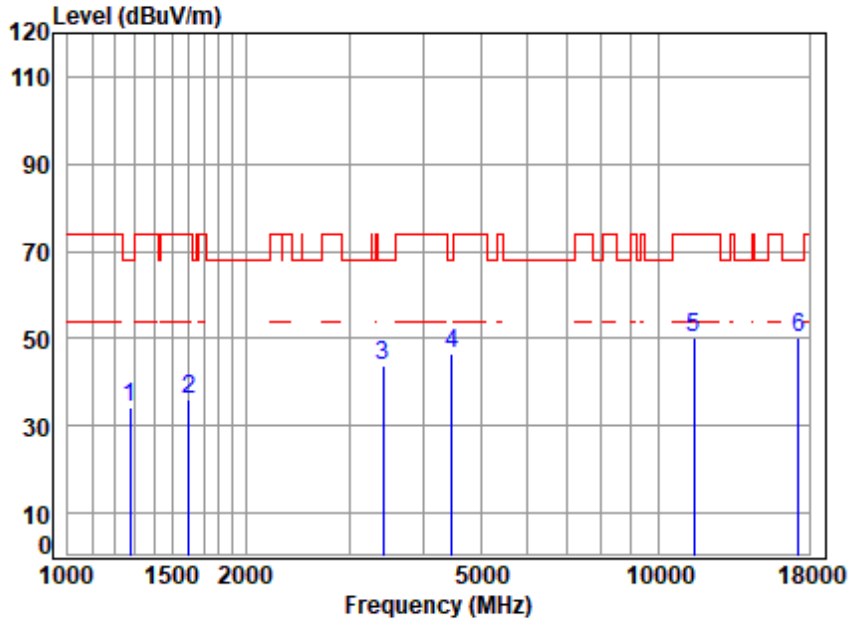
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1274.802	2.90	24.92	39.81	46.28	34.29	68.20	-33.91	peak
2	1601.804	3.35	26.26	40.01	46.30	35.90	74.00	-38.10	peak
3	3415.787	5.42	31.57	41.02	47.65	43.62	68.20	-24.58	peak
4	4469.214	6.73	33.55	41.85	48.07	46.50	68.20	-21.70	peak
5	11510.000	11.64	37.90	37.87	38.37	50.04	74.00	-23.96	peak
6	17265.000	14.08	42.76	40.28	33.64	50.20	68.20	-18.00	peak

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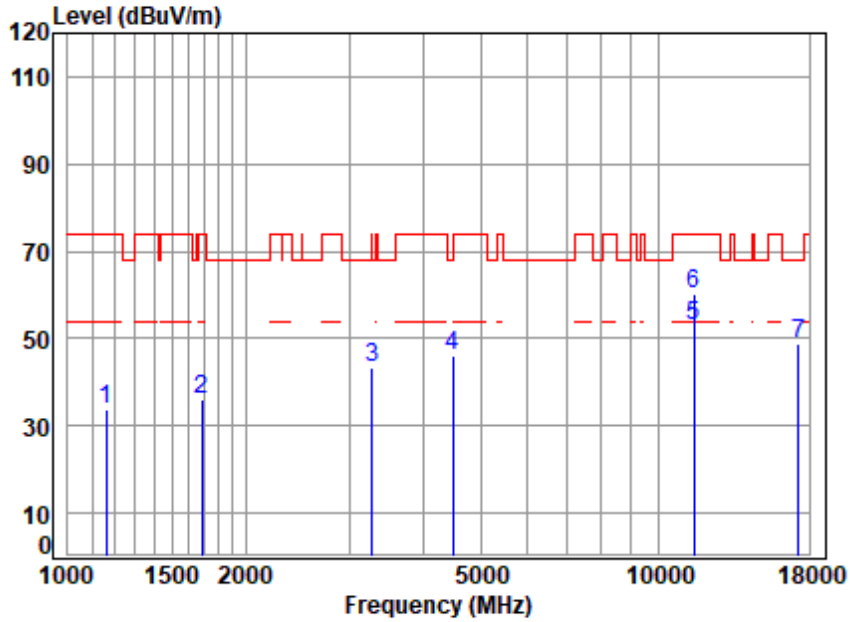
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1162.182	2.69	24.42	39.73	46.29	33.67	74.00	-40.33	peak
2	1687.347	3.42	26.62	40.05	46.06	36.05	74.00	-37.95	peak
3	3280.326	5.24	31.36	40.92	47.85	43.53	68.20	-24.67	peak
4	4482.150	6.74	33.57	41.86	47.86	46.31	68.20	-21.89	peak
5	11510.000	11.64	37.90	37.87	41.24	52.91	54.00	-1.09	Average
6	11510.000	11.64	37.90	37.87	48.34	60.01	74.00	-13.99	peak
7	17265.000	14.08	42.76	40.28	32.18	48.74	68.20	-19.46	peak

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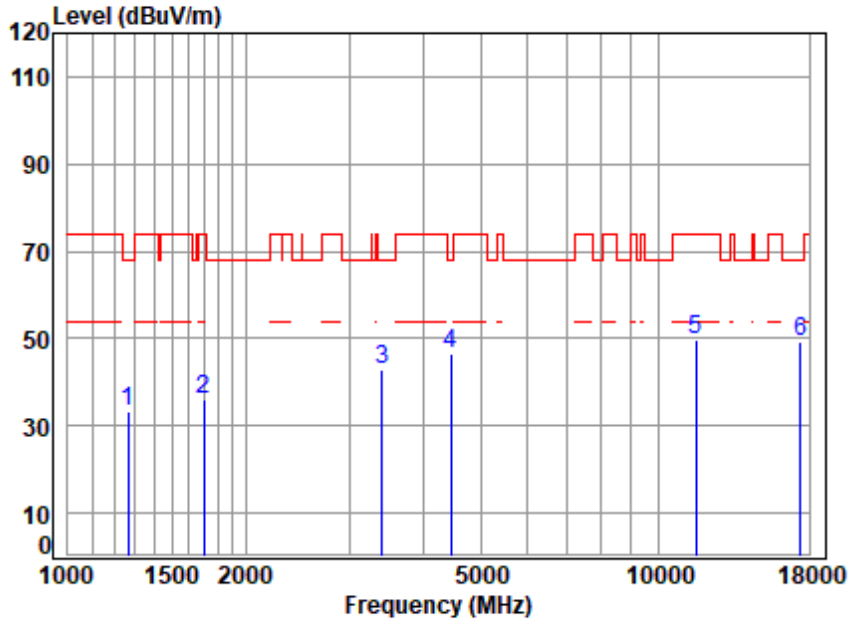
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	1263.796	2.88	24.87	39.80	45.48	33.43	68.20	-34.77	peak
2	1702.042	3.43	26.68	40.06	45.79	35.84	74.00	-38.16	peak
3	3405.929	5.40	31.56	41.01	47.10	43.05	68.20	-25.15	peak
4	4456.315	6.72	33.53	41.84	47.95	46.36	68.20	-21.84	peak
5	11590.000	11.74	37.86	37.91	38.18	49.87	74.00	-24.13	peak
6	17385.000	14.05	42.83	40.25	32.62	49.25	68.20	-18.95	peak

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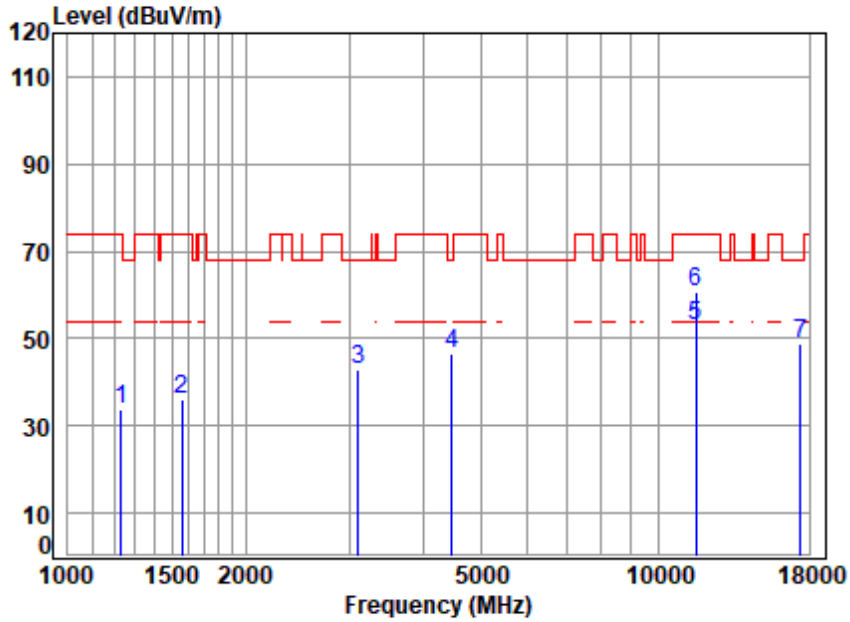
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	1231.345	2.82	24.73	39.78	46.00	33.77	74.00	-40.23	peak
2	1560.673	3.31	26.08	39.99	46.77	36.17	74.00	-37.83	peak
3	3105.037	5.01	31.08	40.78	47.50	42.81	68.20	-25.39	peak
4	4469.214	6.73	33.55	41.85	47.94	46.37	68.20	-21.83	peak
5	11590.000	11.74	37.86	37.91	41.25	52.94	54.00	-1.06	Average
6	11590.000	11.74	37.86	37.91	49.01	60.70	74.00	-13.30	peak
7	17385.000	14.05	42.83	40.25	32.02	48.65	68.20	-19.55	peak

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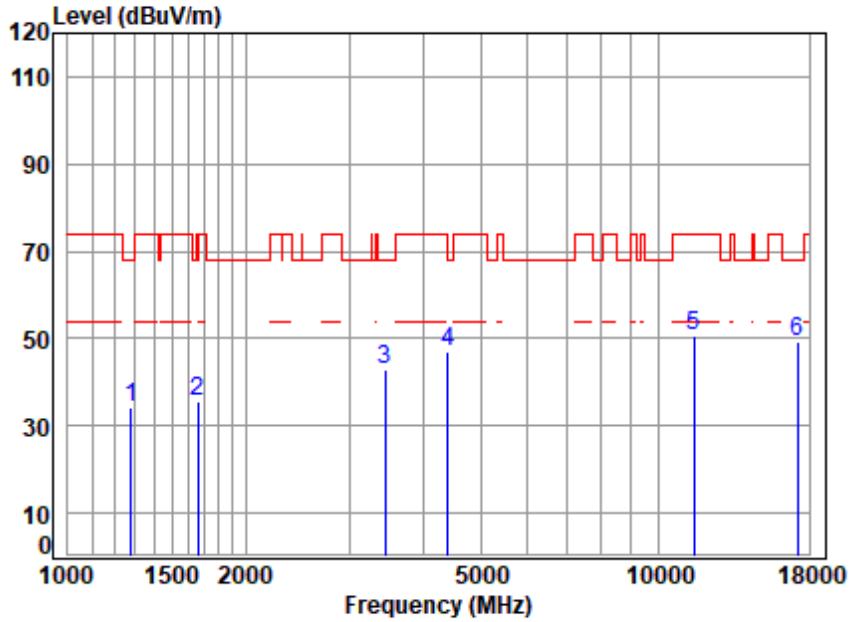
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

	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	2.91	24.93	39.81	46.09	34.12	68.20	-34.08	peak
2	1663.137	3.40	26.52	40.04	45.91	35.79	74.00	-38.21	peak
3	3445.535	5.45	31.62	41.04	47.04	43.07	68.20	-25.13	peak
4	4405.090	6.67	33.44	41.79	48.82	47.14	68.20	-21.06	peak
5	11490.000	11.62	37.90	37.86	38.93	50.59	74.00	-23.41	peak
6	17235.000	14.09	42.74	40.28	32.74	49.29	68.20	-18.91	peak

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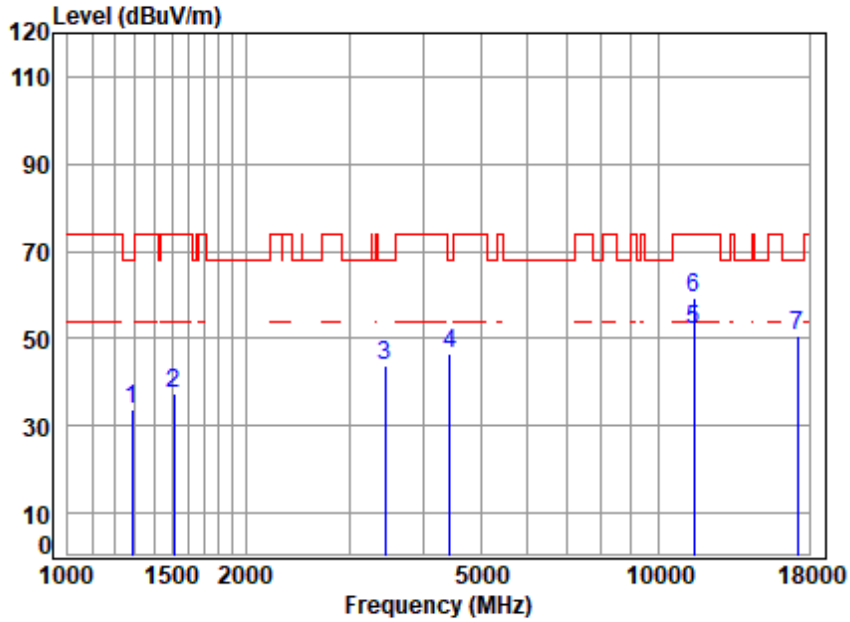
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

	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	2.92	24.96	39.82	45.80	33.86	68.20	-34.34	peak
2	1511.833	3.27	25.85	39.96	48.06	37.22	74.00	-36.78	peak
3	3445.535	5.45	31.62	41.04	47.89	43.92	68.20	-24.28	peak
4	4430.628	6.70	33.48	41.81	47.97	46.34	68.20	-21.86	peak
5	11490.000	11.62	37.90	37.86	40.35	52.01	54.00	-1.99	Average
6	11490.000	11.62	37.90	37.86	47.82	59.48	74.00	-14.52	peak
7	17235.000	14.09	42.74	40.28	34.15	50.70	68.20	-17.50	peak

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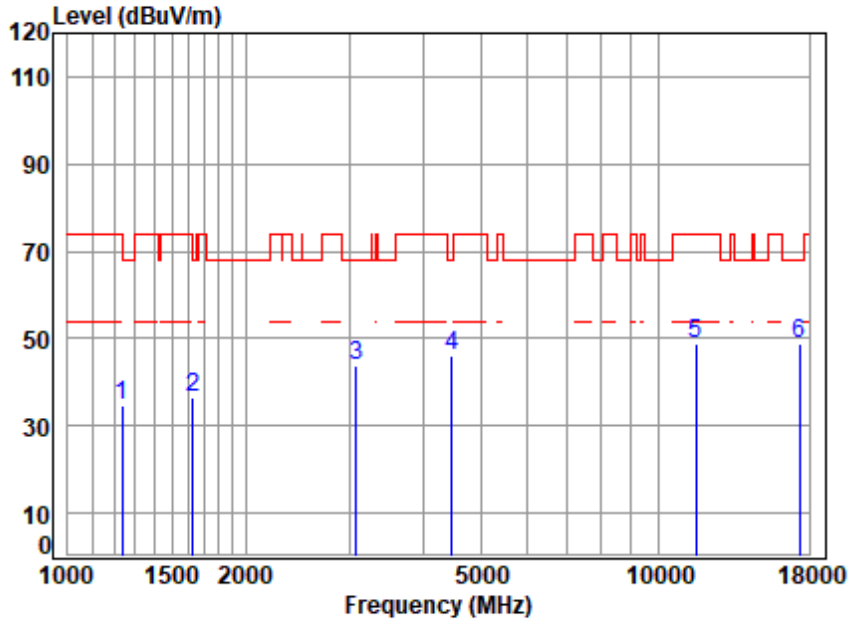
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

	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	2.83	24.76	39.79	46.76	34.56	74.00	-39.44	peak
2	1629.825	3.37	26.38	40.02	46.80	36.53	68.20	-31.67	peak
3	3078.229	4.97	31.03	40.76	48.65	43.89	68.20	-24.31	peak
4	4469.214	6.73	33.55	41.85	47.78	46.21	68.20	-21.99	peak
5	11570.000	11.72	37.87	37.90	37.17	48.86	74.00	-25.14	peak
6	17355.000	14.06	42.81	40.25	32.13	48.75	68.20	-19.45	peak

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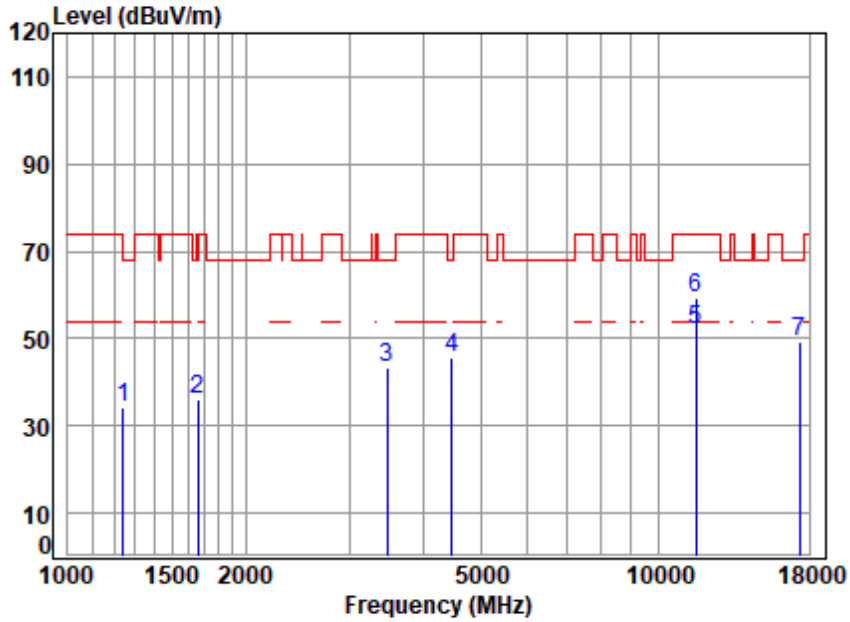
Member of the SGS Group (SGS SA)

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

	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	2.84	24.78	39.79	46.52	34.35	68.20	-33.85	peak
2	1658.337	3.40	26.50	40.04	46.13	35.99	68.20	-32.21	peak
3	3475.541	5.49	31.66	41.06	47.39	43.48	68.20	-24.72	peak
4	4469.214	6.73	33.55	41.85	47.42	45.85	68.20	-22.35	peak
5	11570.000	11.72	37.87	37.90	40.36	52.05	54.00	-1.95	Average
6	11570.000	11.72	37.87	37.90	47.85	59.54	74.00	-14.46	peak
7	17355.000	14.06	42.81	40.25	32.67	49.29	68.20	-18.91	peak

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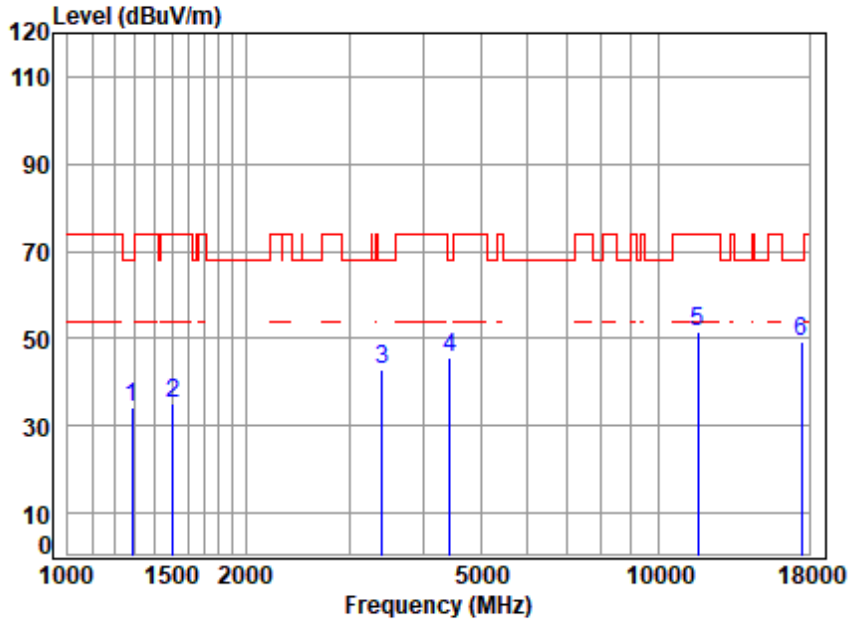
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	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	2.92	24.96	39.82	46.02	34.08	68.20	-34.12	peak
2	1507.470	3.27	25.83	39.96	46.21	35.35	74.00	-38.65	peak
3	3405.929	5.40	31.56	41.01	46.77	42.72	68.20	-25.48	peak
4	4443.453	6.71	33.50	41.82	47.20	45.59	68.20	-22.61	peak
5	11650.000	11.82	37.84	37.94	39.94	51.66	74.00	-22.34	peak
6	17475.000	14.02	42.89	40.23	32.50	49.18	68.20	-19.02	peak

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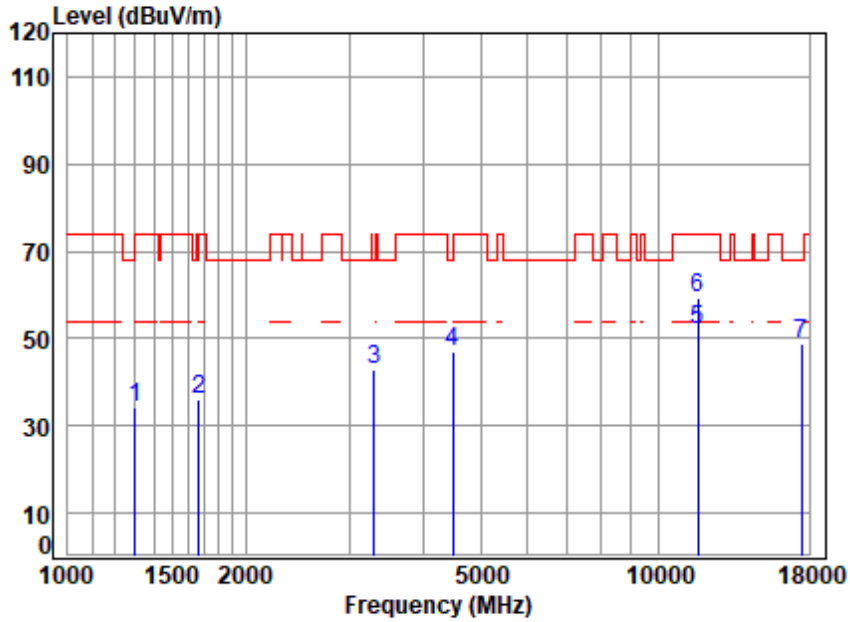
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	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	2.94	25.03	39.83	46.05	34.19	74.00	-39.81	peak
2	1667.951	3.40	26.54	40.04	46.37	36.27	74.00	-37.73	peak
3	3308.894	5.28	31.41	40.94	47.33	43.08	68.20	-25.12	peak
4	4482.150	6.74	33.57	41.86	48.33	46.78	68.20	-21.42	peak
5	11650.000	11.82	37.84	37.94	40.36	52.08	54.00	-1.92	Average
6	11650.000	11.82	37.84	37.94	47.41	59.13	74.00	-14.87	peak
7	17475.000	14.02	42.89	40.23	32.31	48.99	68.20	-19.21	peak

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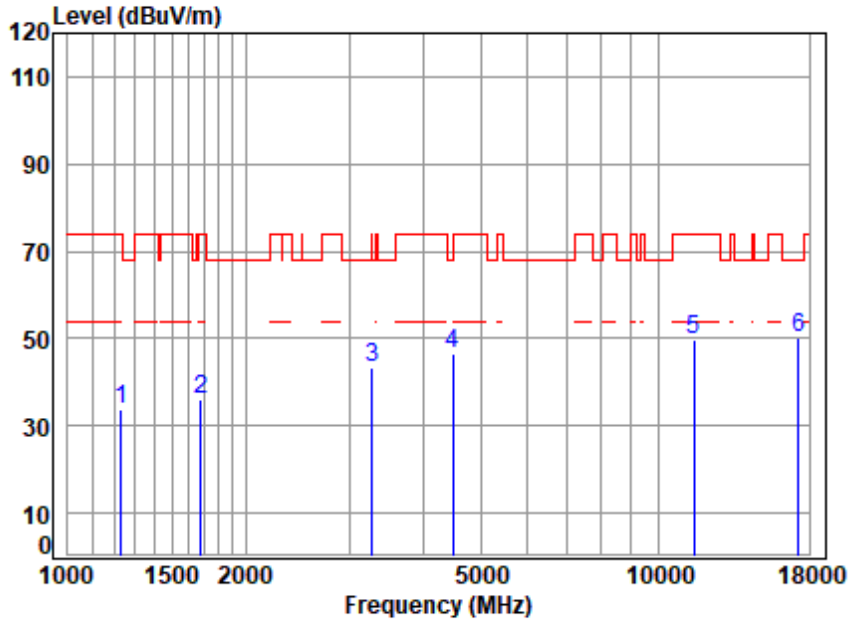
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	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	2.82	24.73	39.78	45.87	33.64	74.00	-40.36	peak
2	1682.477	3.42	26.60	40.05	46.16	36.13	74.00	-37.87	peak
3	3280.326	5.24	31.36	40.92	47.62	43.30	68.20	-24.90	peak
4	4495.125	6.76	33.59	41.87	48.02	46.50	68.20	-21.70	peak
5	11510.000	11.64	37.90	37.87	38.23	49.90	74.00	-24.10	peak
6	17265.000	14.08	42.76	40.28	33.80	50.36	68.20	-17.84	peak

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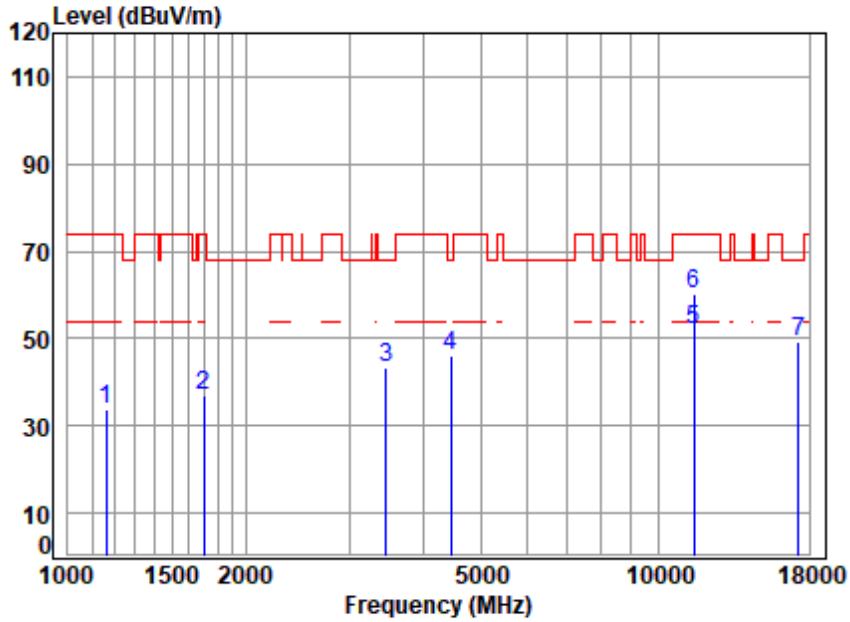
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	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	1162.182	2.69	24.42	39.73	46.34	33.72	74.00	-40.28	peak
2	1702.042	3.43	26.68	40.06	46.72	36.77	74.00	-37.23	peak
3	3465.510	5.48	31.65	41.05	47.07	43.15	68.20	-25.05	peak
4	4456.315	6.72	33.53	41.84	47.89	46.30	68.20	-21.90	peak
5	11510.000	11.64	37.90	37.87	40.36	52.03	54.00	-1.97	Average
6	11510.000	11.64	37.90	37.87	48.34	60.01	74.00	-13.99	peak
7	17265.000	14.08	42.76	40.28	32.58	49.14	68.20	-19.06	peak

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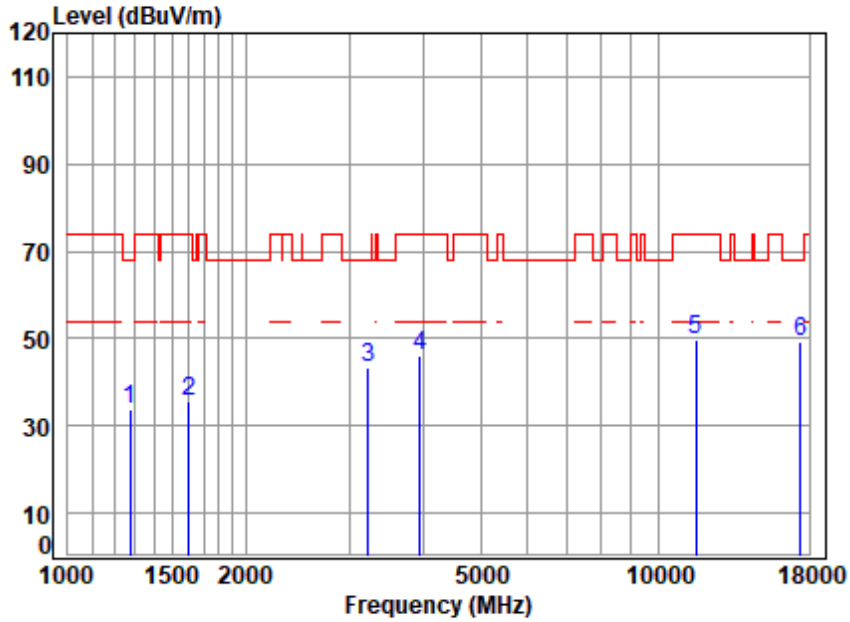
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	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	2.90	24.92	39.81	45.77	33.78	68.20	-34.42	peak
2	1606.441	3.35	26.28	40.01	46.15	35.77	74.00	-38.23	peak
3	3223.928	5.17	31.27	40.88	47.84	43.40	68.20	-24.80	peak
4	3946.885	6.20	32.60	41.37	48.71	46.14	74.00	-27.86	peak
5	11590.000	11.74	37.86	37.91	38.20	49.89	74.00	-24.11	peak
6	17385.000	14.05	42.83	40.25	32.48	49.11	68.20	-19.09	peak

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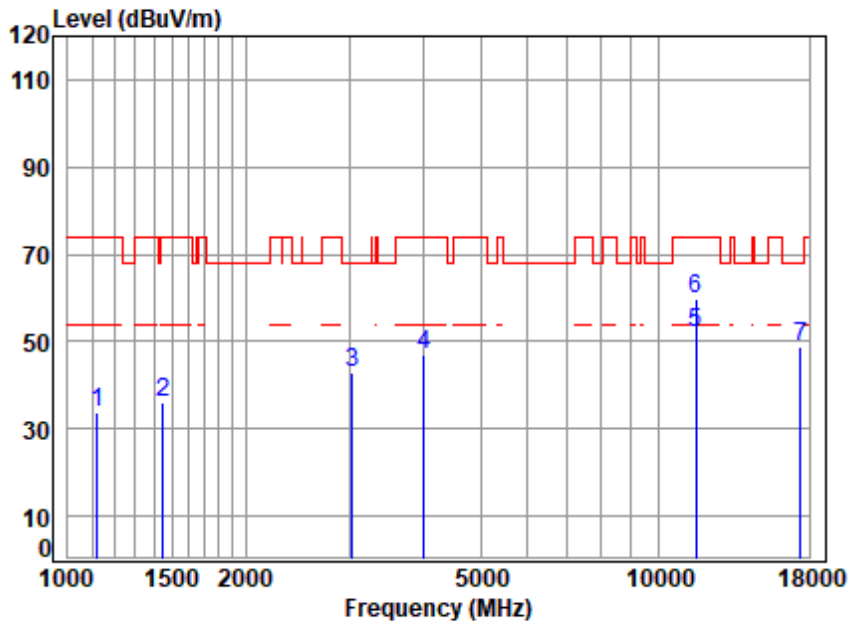
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	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	1122.563	2.62	24.23	39.70	46.47	33.62	74.00	-40.38	peak
2	1451.878	3.19	25.62	39.92	47.17	36.06	74.00	-37.94	peak
3	3034.063	4.91	30.96	40.73	47.98	43.12	68.20	-25.08	peak
4	4004.339	6.28	32.71	41.40	49.45	47.04	74.00	-26.96	peak
5	11590.000	11.74	37.86	37.91	40.37	52.06	54.00	-1.94	Average
6	11590.000	11.74	37.86	37.91	47.99	59.68	74.00	-14.32	peak
7	17385.000	14.05	42.83	40.25	32.17	48.80	68.20	-19.40	peak

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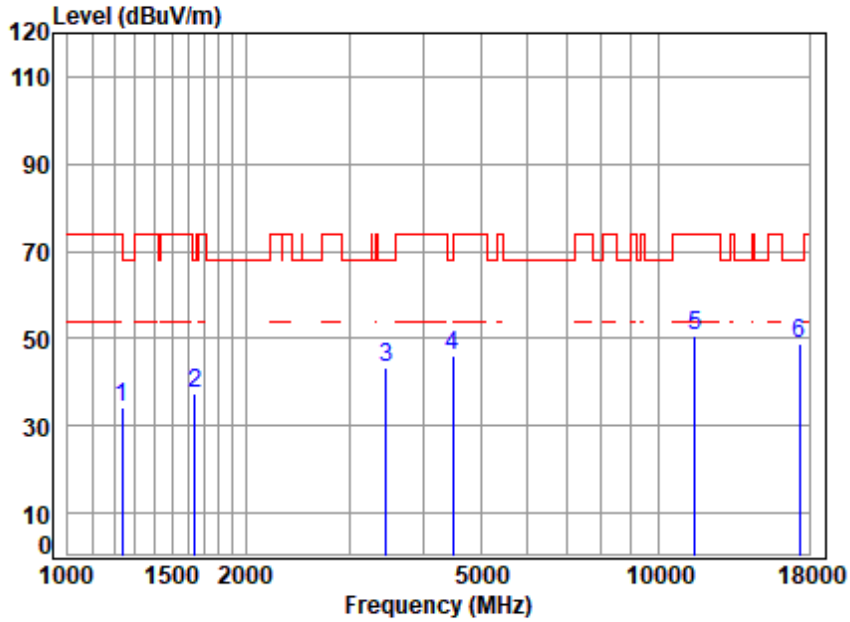
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

	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	2.83	24.76	39.79	46.59	34.39	74.00	-39.61	peak
2	1644.019	3.38	26.44	40.03	47.44	37.23	68.20	-30.97	peak
3	3455.508	5.47	31.63	41.04	47.47	43.53	68.20	-24.67	peak
4	4482.150	6.74	33.57	41.86	47.74	46.19	68.20	-22.01	peak
5	11550.000	11.69	37.88	37.89	38.83	50.51	74.00	-23.49	peak
6	17325.000	14.07	42.80	40.26	32.01	48.62	68.20	-19.58	peak

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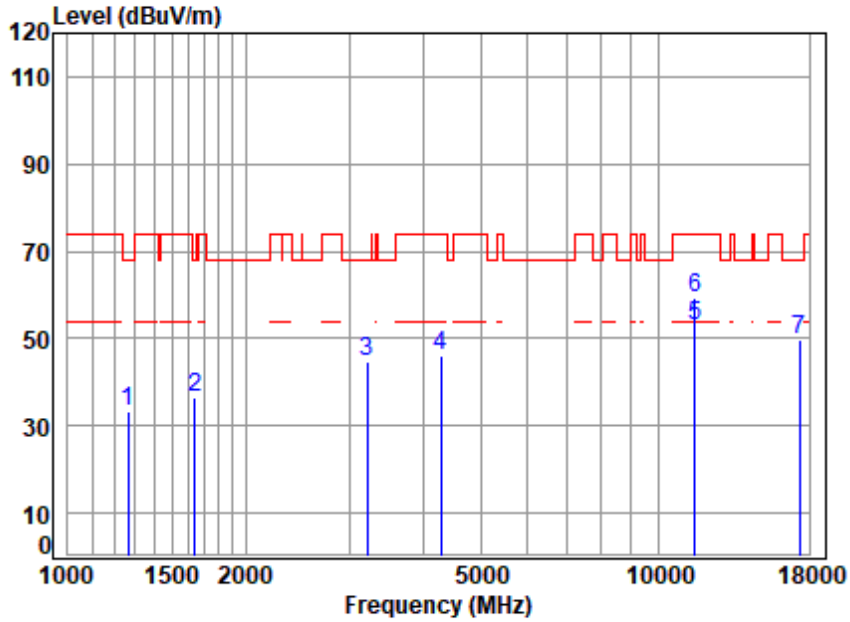
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

	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	1263.796	2.88	24.87	39.80	45.17	33.12	68.20	-35.08	peak
2	1644.019	3.38	26.44	40.03	46.81	36.60	68.20	-31.60	peak
3	3214.623	5.16	31.26	40.87	49.18	44.73	68.20	-23.47	peak
4	4279.589	6.56	33.22	41.67	47.86	45.97	74.00	-28.03	peak
5	11550.000	11.69	37.88	37.89	41.24	52.92	54.00	-1.08	Average
6	11550.000	11.69	37.88	37.89	47.84	59.52	74.00	-14.48	peak
7	17325.000	14.07	42.80	40.26	32.91	49.52	68.20	-18.68	peak

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7.10 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Measurement Distance:	3m
Limit:	
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 (68.2dBuV/m).
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 (68.2dBuV/m).
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 (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of −27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) 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 (110.8dBuV/m) 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 (122.2dBuV/m) at the band edge.

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
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

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7.10.1 E.U.T. Operation

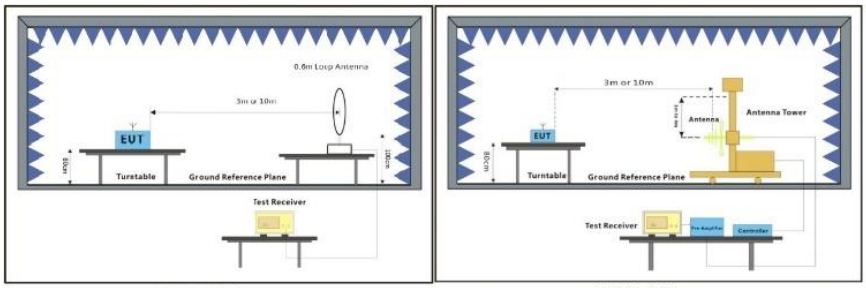
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

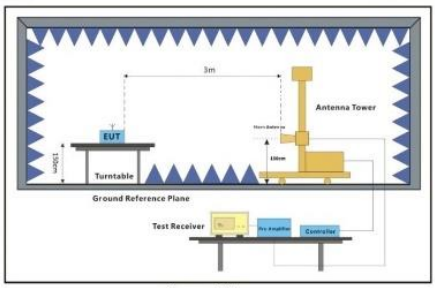
7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



Below 30MHz 30MHz~1GHz



Above 1GHz

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7.10.4 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.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2: Pretest the EUT at antenna 1, antenna 2, antenna 3 and antenna 4, found the antenna 3 which is worst case for 802.11a mode, Pretest the EUT at antenna 1, antenna 2, antenna 3, antenna 4 and MIMO mode, found the MIMO mode which is worst case for 802.11n/ac mode; So, Only the worst test data is recorded in the report.

Remark3: Both Adapter1 and Adapter2 was tested fully, only record the worst test result(Adapter1).

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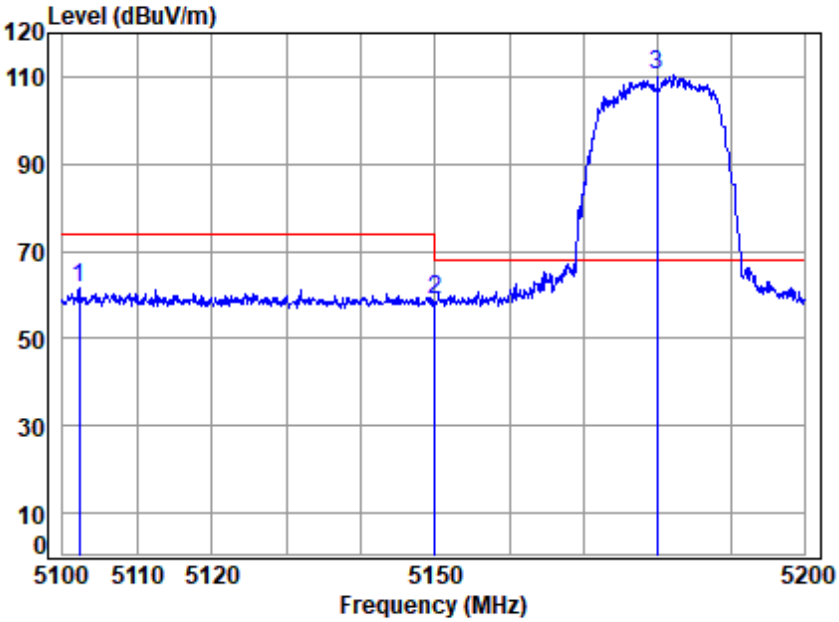
Test data for Adapter1
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5180 Band edge
: 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	5102.179	7.49	34.28	42.31	62.28	61.74	74.00	-12.26	peak
2	5149.980	7.57	34.32	42.32	59.26	58.83	74.00	-15.17	peak
3 *	5180.000	7.63	34.35	42.32	110.77	110.43	68.20	42.23	peak

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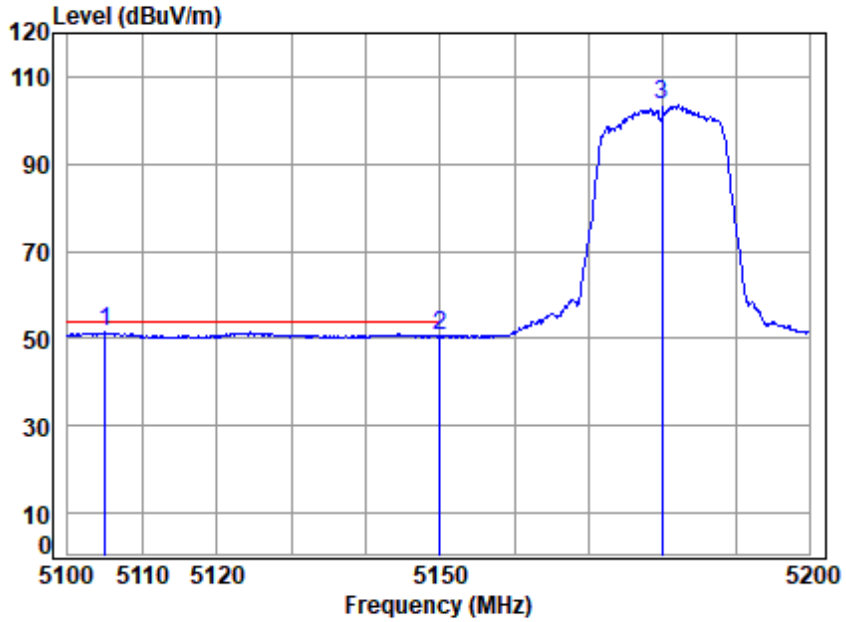
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5180 Band edge
: 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	5104.954	7.49	34.29	42.31	51.95	51.42	54.00	-2.58	Average
2	5149.980	7.57	34.32	42.32	51.14	50.71	54.00	-3.29	Average
3	5180.000	7.63	34.35	42.32	103.71	103.37	------	------	Average

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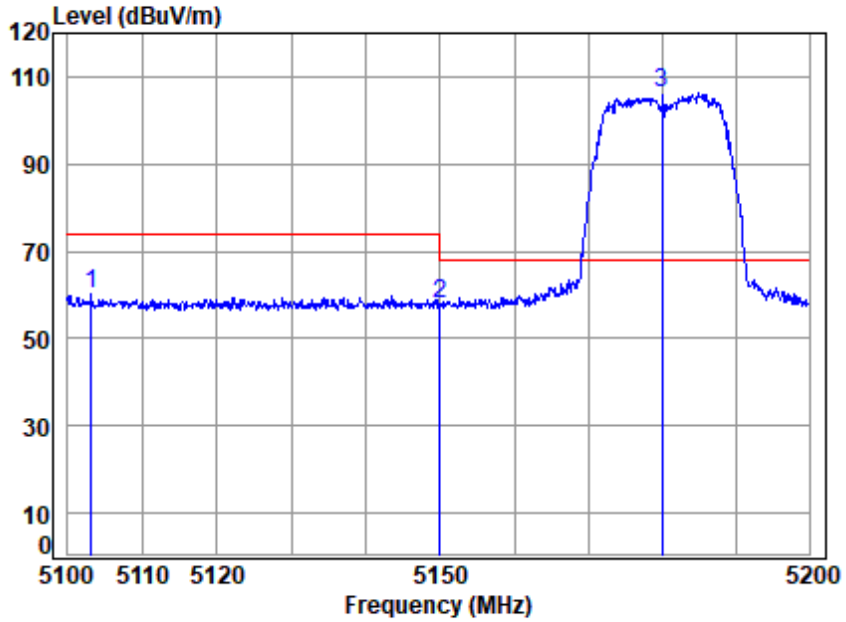
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5180 Band edge
: 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	5103.170	7.49	34.29	42.31	60.55	60.02	74.00	-13.98	Peak
2	5149.980	7.57	34.32	42.32	58.57	58.14	74.00	-15.86	Peak
3 *	5180.000	7.63	34.35	42.32	106.74	106.40	68.20	38.20	Peak

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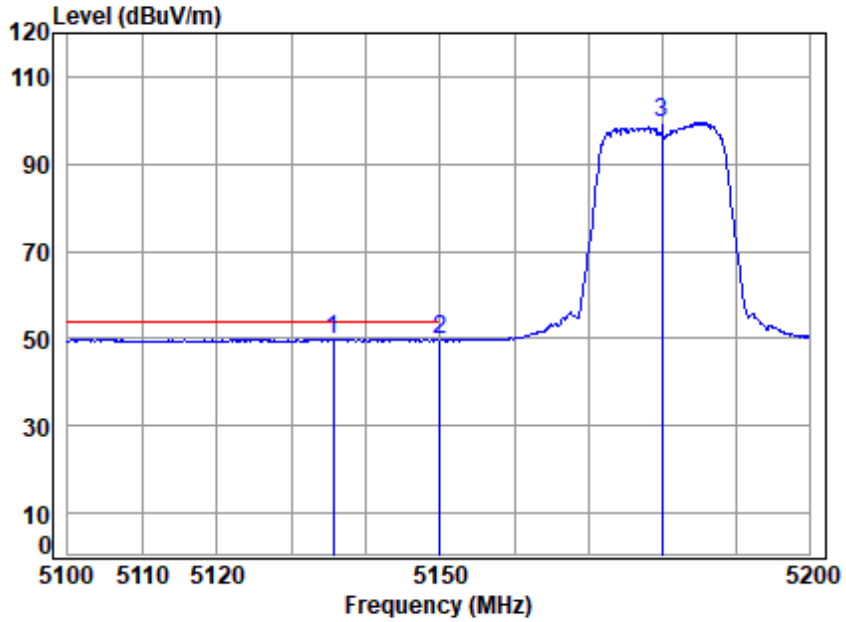
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5180 Band edge
: 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	5135.577	7.55	34.31	42.31	50.24	49.79	54.00	-4.21	Average
2	5149.980	7.57	34.32	42.32	50.08	49.65	54.00	-4.35	Average
3	5180.000	7.63	34.35	42.32	99.95	99.61	------	------	Average

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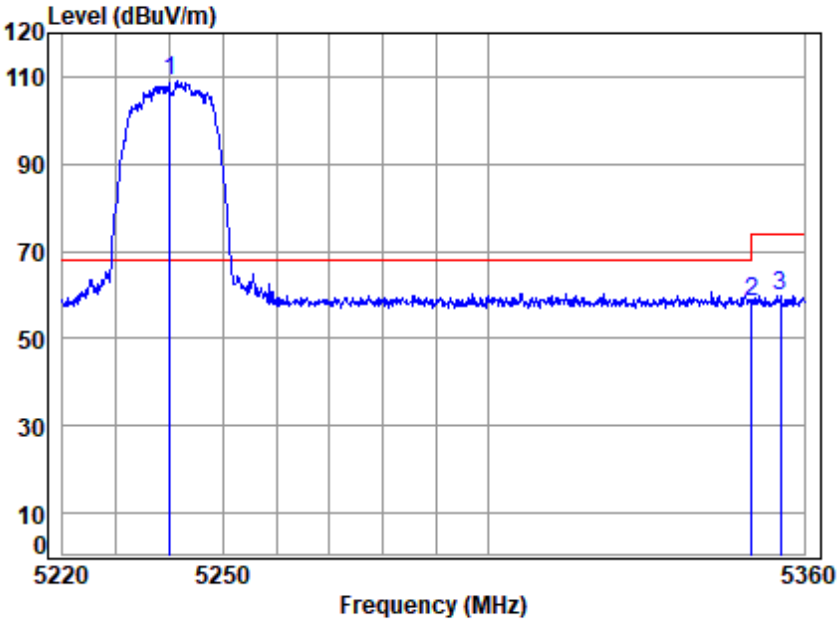
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




```
Site      : chamber
Condition: 3m HORIZONTAL
Job No    : 01123CR
Mode      : 5240 Band edge
          : 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 *	5240.000	7.73	34.40	42.33	109.06	108.86	68.20	40.66	peak
2	5350.020	7.92	34.48	42.34	58.55	58.61	74.00	-15.39	peak
3	5355.462	7.93	34.49	42.34	59.81	59.89	74.00	-14.11	peak

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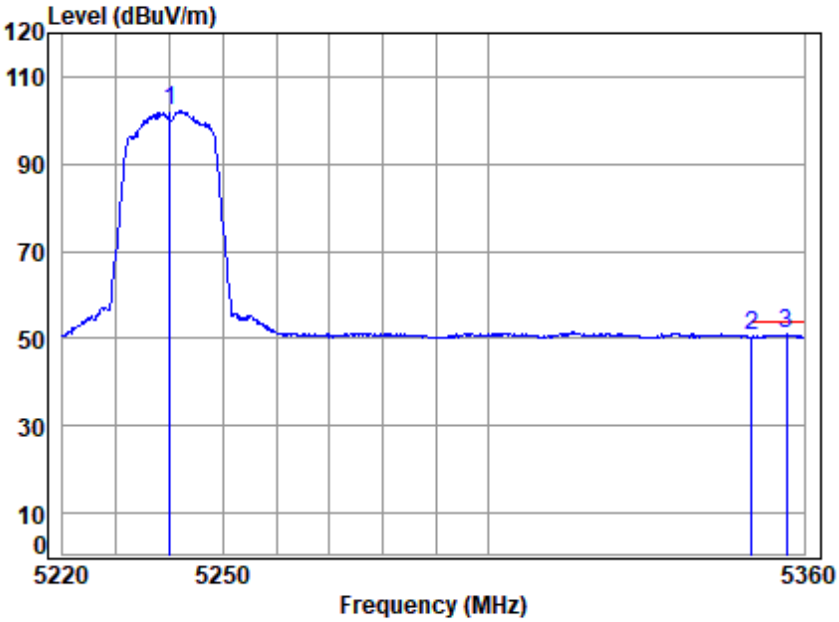
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5240 Band edge
: 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	5240.000	7.73	34.40	42.33	102.38	102.18	------	------	Average
2	5350.020	7.92	34.48	42.34	50.40	50.46	54.00	-3.54	Average
3	5356.738	7.94	34.49	42.34	50.84	50.93	54.00	-3.07	Average

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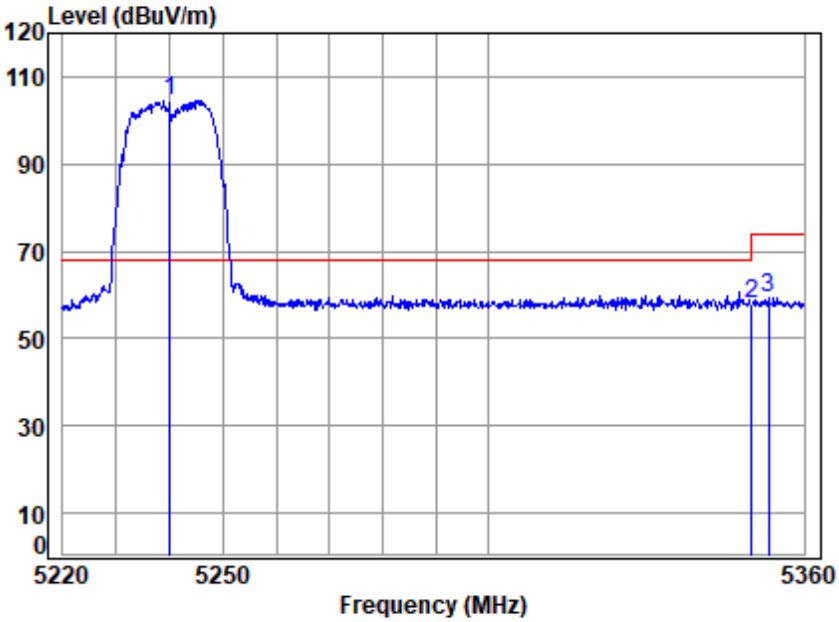
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




```
Site      : chamber
Condition: 3m VERTICAL
Job No    : 01123CR
Mode      : 5240 Band edge
          : 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 *	5240.000	7.73	34.40	42.33	104.66	104.46	68.20	36.26	Peak
2	5350.020	7.92	34.48	42.34	57.95	58.01	74.00	-15.99	Peak
3	5353.195	7.93	34.49	42.34	59.38	59.46	74.00	-14.54	Peak

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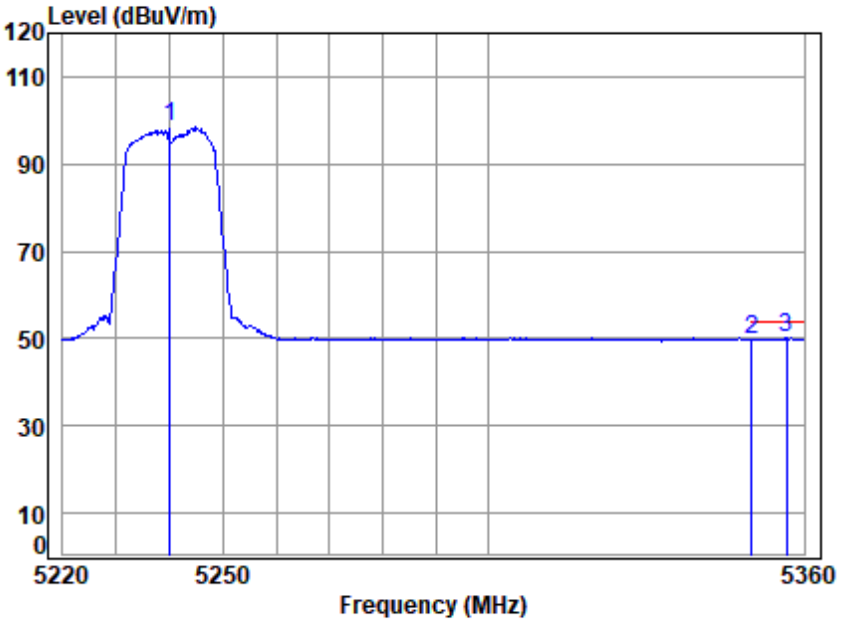

Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5240 Band edge
: 5G WIFI 11A

	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	5240.000	7.73	34.40	42.33	98.61	98.41	------	------	Average
2	5350.020	7.92	34.48	42.34	49.76	49.82	54.00	-4.18	Average
3	5356.596	7.94	34.49	42.34	49.97	50.06	54.00	-3.94	Average

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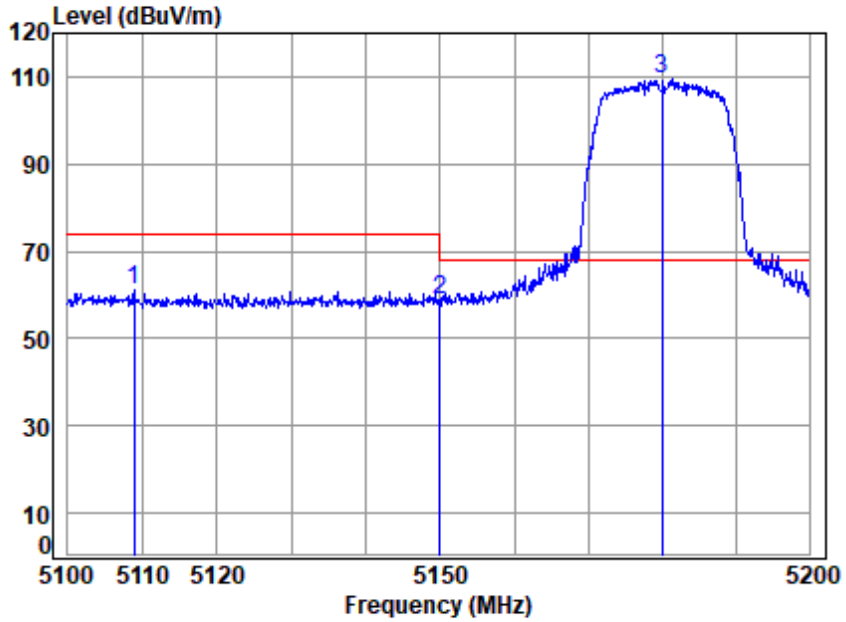
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11N

	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	5108.821	7.50	34.29	42.31	61.56	61.04	74.00	-12.96	peak
2	5149.980	7.57	34.32	42.32	59.37	58.94	74.00	-15.06	peak
3 *	5180.000	7.63	34.35	42.32	109.68	109.34	68.20	41.14	peak

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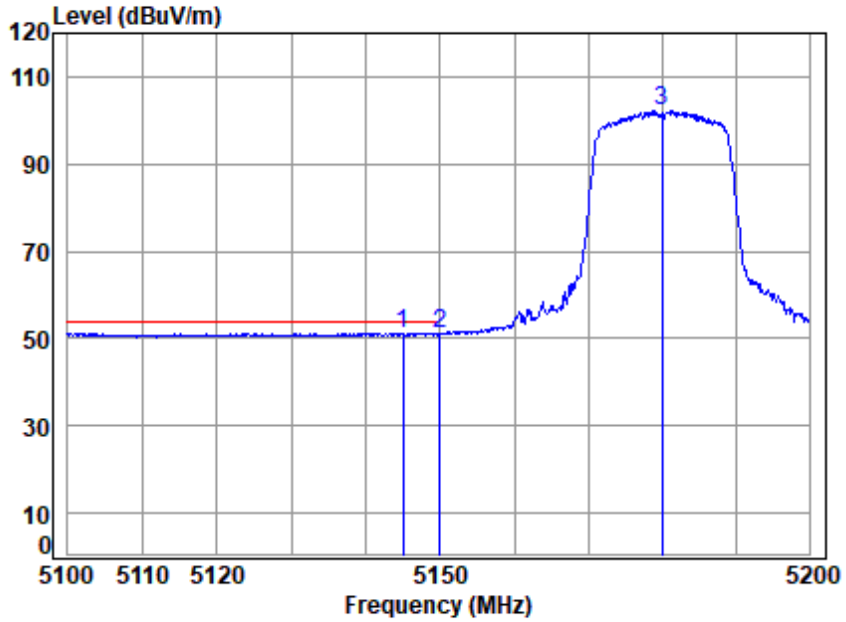
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11N

	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	5144.959	7.56	34.32	42.32	51.76	51.32	54.00	-2.68	Average
2	5149.980	7.57	34.32	42.32	51.66	51.23	54.00	-2.77	Average
3	5180.000	7.63	34.35	42.32	102.50	102.16	------	------	Average

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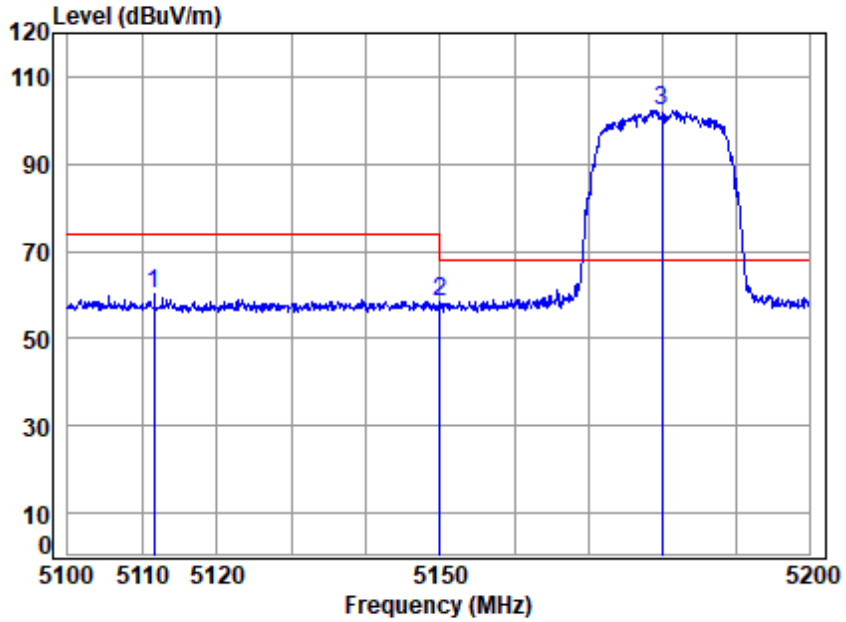

Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11N

	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	5111.600	7.50	34.29	42.31	60.92	60.40	74.00	-13.60	Peak
2	5149.980	7.57	34.32	42.32	58.78	58.35	74.00	-15.65	Peak
3 *	5180.000	7.63	34.35	42.32	102.63	102.29	68.20	34.09	Peak

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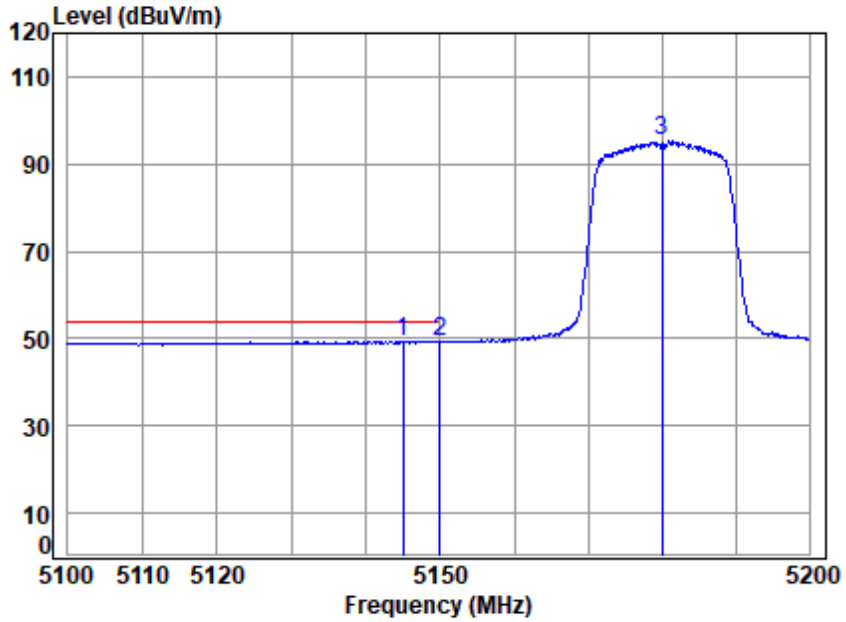
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11N

	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	5144.959	7.56	34.32	42.32	49.81	49.37	54.00	-4.63	Average
2	5149.980	7.57	34.32	42.32	49.74	49.31	54.00	-4.69	Average
3	5180.000	7.63	34.35	42.32	95.53	95.19	------	------	Average

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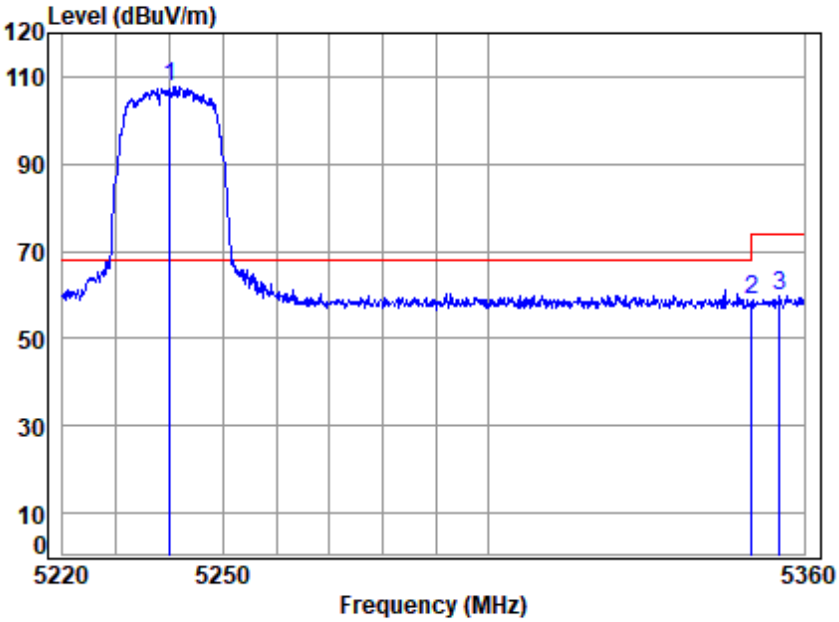
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




```
Site      : chamber
Condition: 3m HORIZONTAL
Job No    : 01123CR
Mode      : 5240 Band edge
          : 5G WIFI 11N
```

	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 *	5240.000	7.73	34.40	42.33	107.88	107.68	68.20	39.48	peak
2	5350.020	7.92	34.48	42.34	58.72	58.78	74.00	-15.22	peak
3	5355.321	7.93	34.49	42.34	59.63	59.71	74.00	-14.29	peak

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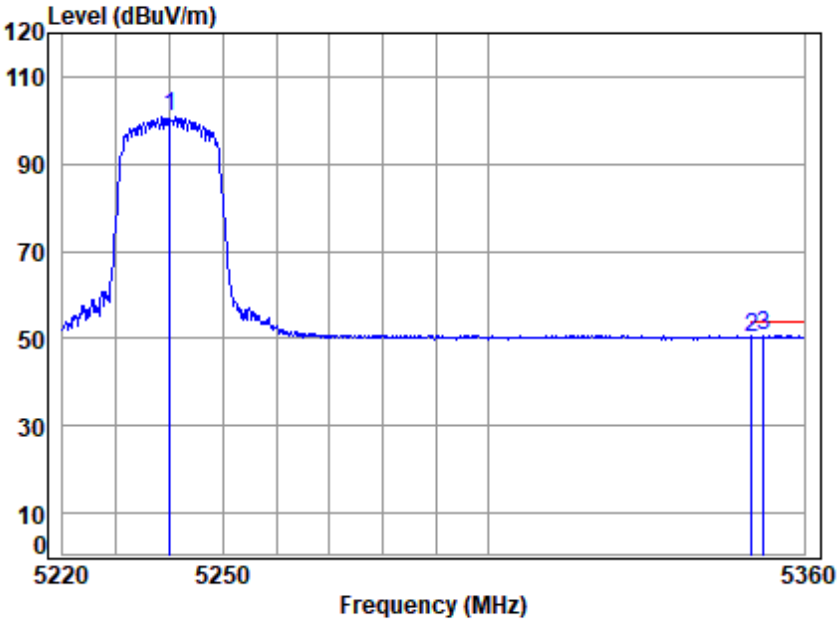
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5240 Band edge
: 5G WIFI 11N

	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	5240.000	7.73	34.40	42.33	101.03	100.83	------	------	Average
2	5350.020	7.92	34.48	42.34	50.35	50.41	54.00	-3.59	Average
3	5352.203	7.93	34.49	42.34	50.44	50.52	54.00	-3.48	Average

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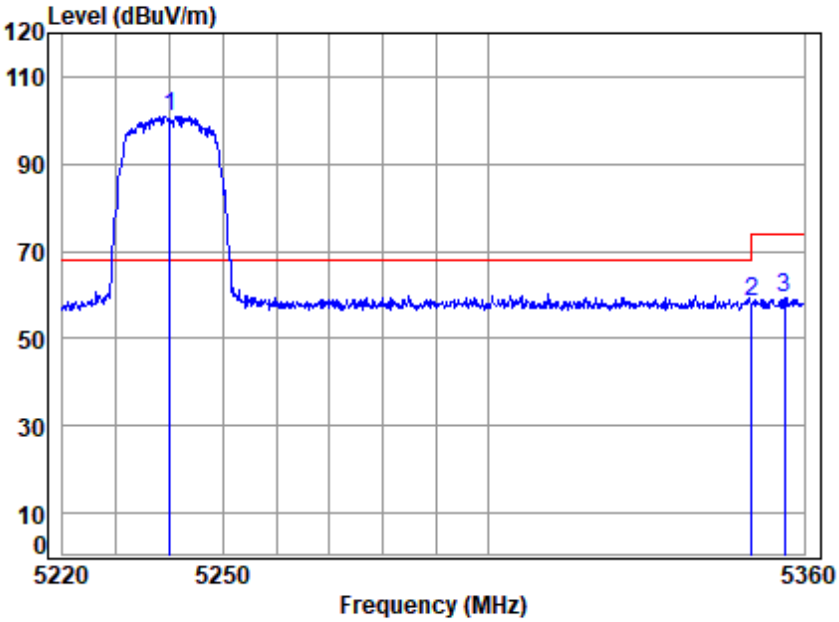
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5240 Band edge
: 5G WIFI 11N

	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 *	5240.000	7.73	34.40	42.33	101.25	101.05	68.20	32.85	Peak
2	5350.020	7.92	34.48	42.34	58.34	58.40	74.00	-15.60	Peak
3	5356.313	7.94	34.49	42.34	59.40	59.49	74.00	-14.51	Peak

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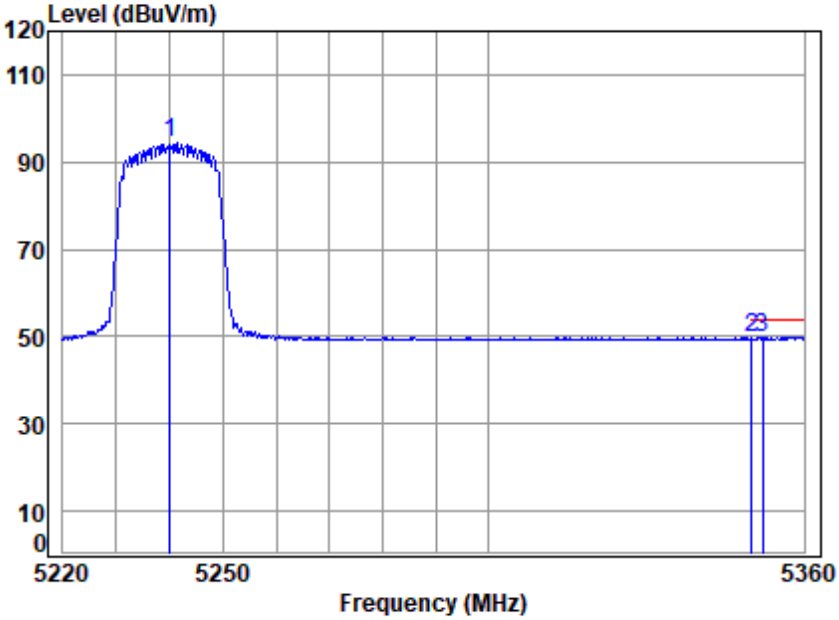
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5240 Band edge
: 5G WIFI 11N

	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	5240.000	7.73	34.40	42.33	94.48	94.28	------	------	Average
2	5350.020	7.92	34.48	42.34	49.46	49.52	54.00	-4.48	Average
3	5352.062	7.93	34.49	42.34	49.63	49.71	54.00	-4.29	Average

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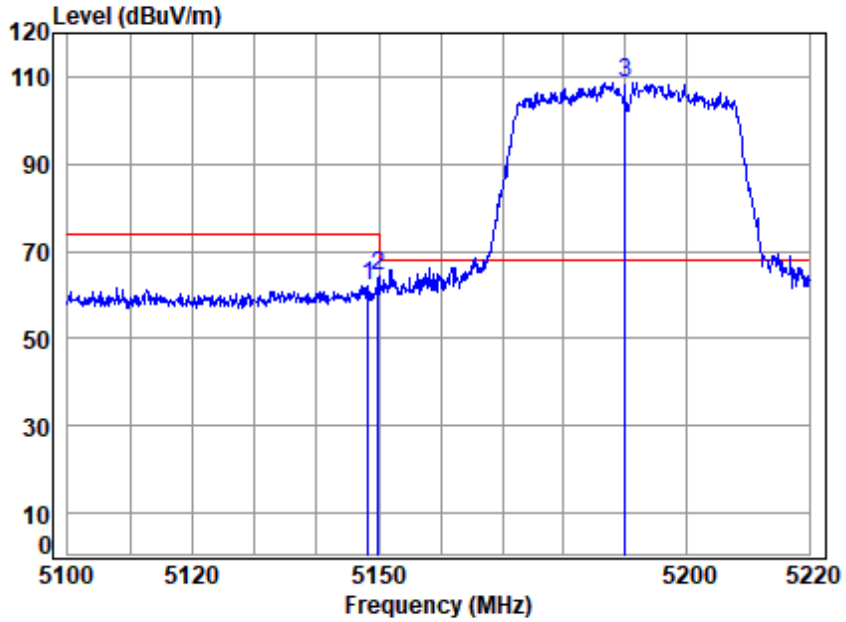
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	5148.264	7.57	34.32	42.32	62.31	61.88	74.00	-12.12	peak
2	5149.980	7.57	34.32	42.32	64.74	64.31	74.00	-9.69	peak
3 *	5190.000	7.64	34.36	42.32	109.07	108.75	68.20	40.55	peak

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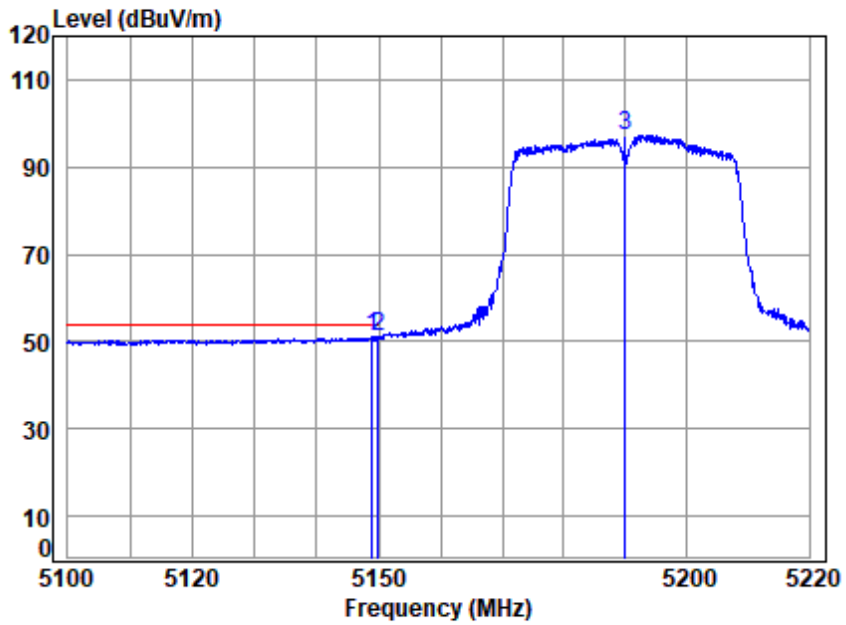
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
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	5148.982	7.57	34.32	42.32	51.66	51.23	54.00	-2.77	Average
2	5149.980	7.57	34.32	42.32	51.67	51.24	54.00	-2.76	Average
3	5190.000	7.64	34.36	42.32	97.53	97.21	------	------	Average

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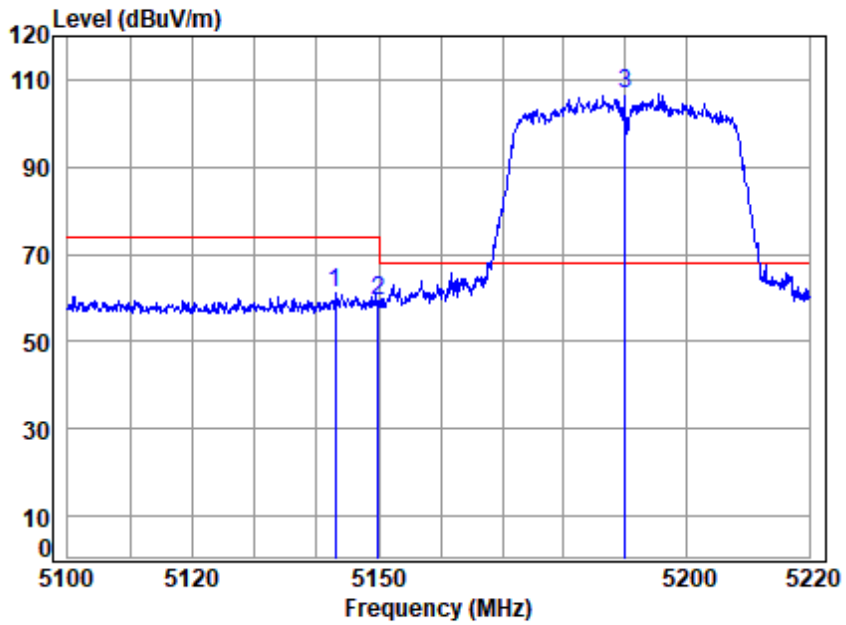
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	5142.999	7.56	34.32	42.32	61.65	61.21	74.00	-12.79	Peak
2	5149.980	7.57	34.32	42.32	59.59	59.16	74.00	-14.84	Peak
3 *	5190.000	7.64	34.36	42.32	107.23	106.91	68.20	38.71	Peak

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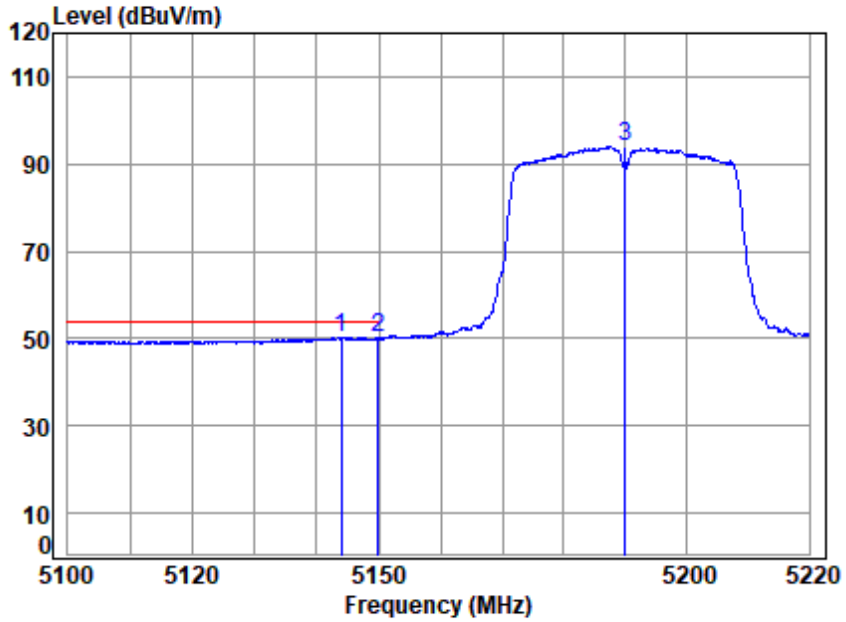
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
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	5143.956	7.56	34.32	42.32	50.67	50.23	54.00	-3.77	Average
2	5149.980	7.57	34.32	42.32	50.48	50.05	54.00	-3.95	Average
3	5190.000	7.64	34.36	42.32	94.38	94.06	------	------	Average

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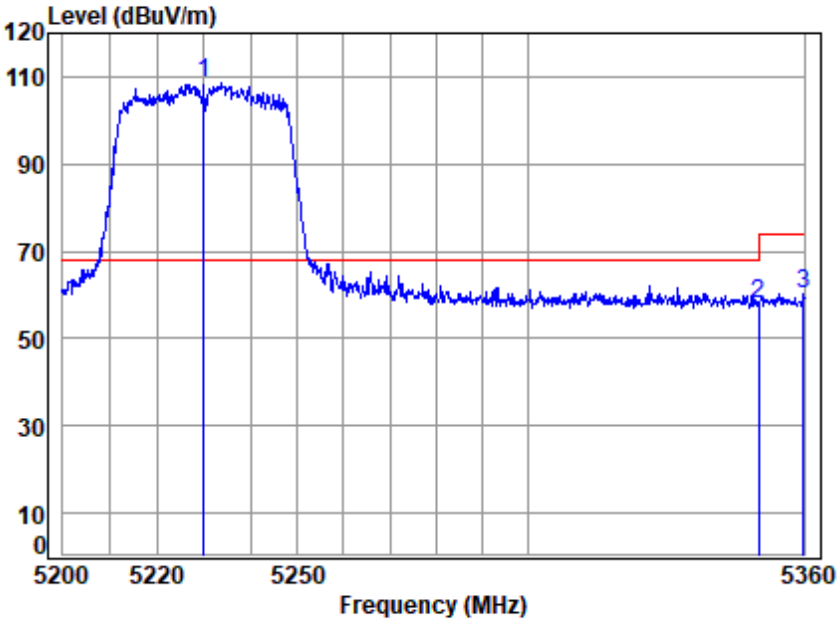
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5230 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 *	5230.000	7.72	34.39	42.32	108.77	108.56	68.20	40.36	peak
2	5350.020	7.92	34.48	42.34	57.79	57.85	74.00	-16.15	peak
3	5359.837	7.94	34.49	42.34	60.26	60.35	74.00	-13.65	peak

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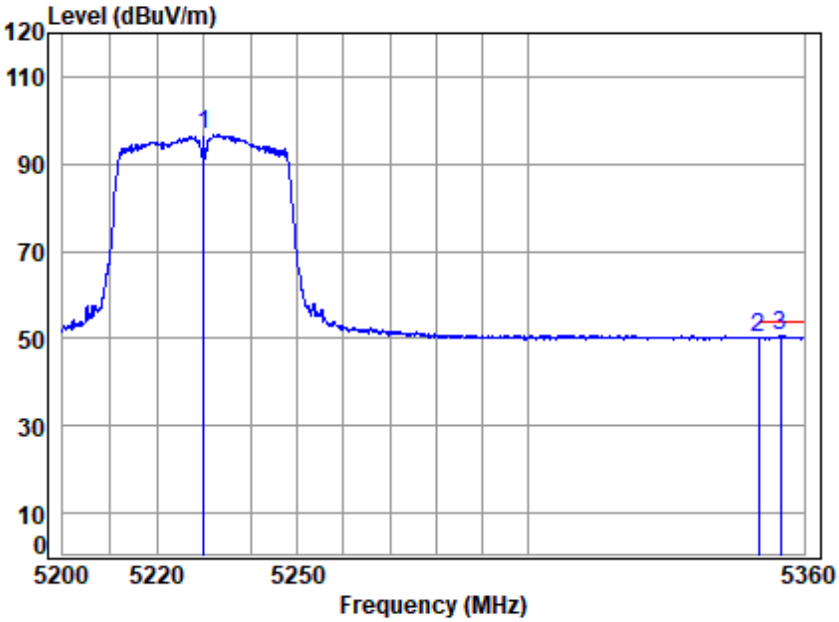
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5230 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	5230.000	7.72	34.39	42.32	96.79	96.58	------	------	Average
2	5350.020	7.92	34.48	42.34	50.29	50.35	54.00	-3.65	Average
3	5354.805	7.93	34.49	42.34	50.69	50.77	54.00	-3.23	Average

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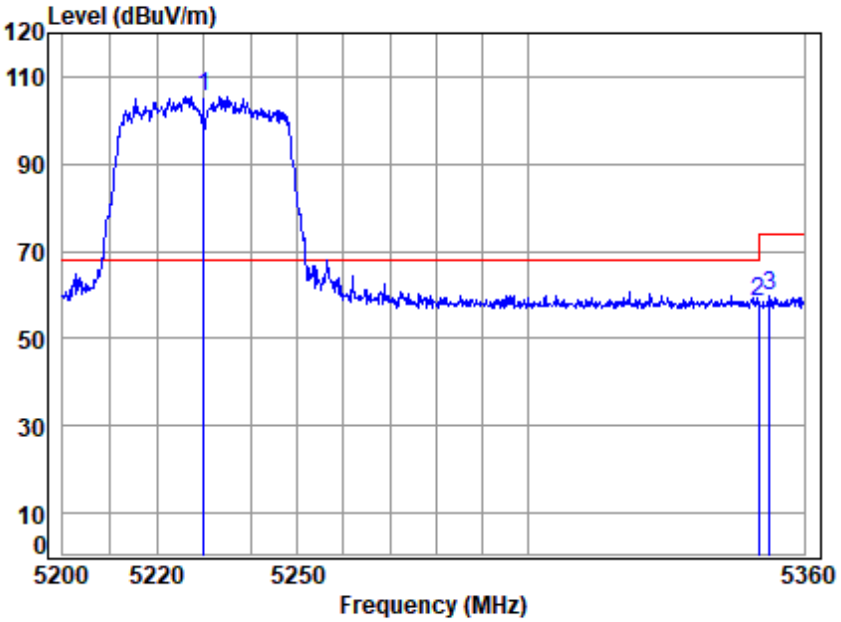
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




```
Site      : chamber
Condition: 3m VERTICAL
Job No    : 01123CR
Mode      : 5230 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 *	5230.000	7.72	34.39	42.32	105.73	105.52	68.20	37.32	Peak
2	5350.020	7.92	34.48	42.34	58.18	58.24	74.00	-15.76	Peak
3	5352.533	7.93	34.49	42.34	59.64	59.72	74.00	-14.28	Peak

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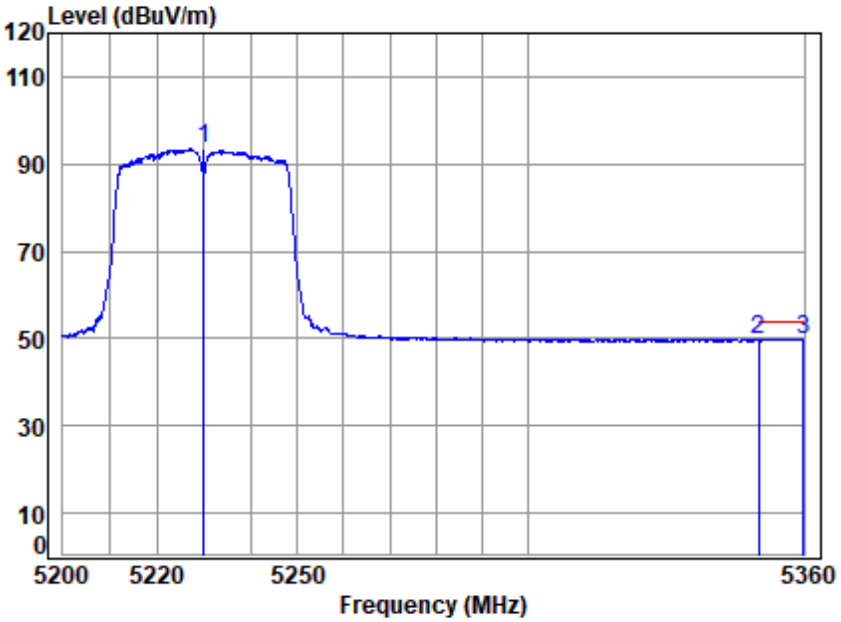
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5230 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	5230.000	7.72	34.39	42.32	93.62	93.41	------	------	Average
2	5350.020	7.92	34.48	42.34	49.59	49.65	54.00	-4.35	Average
3	5359.837	7.94	34.49	42.34	49.74	49.83	54.00	-4.17	Average

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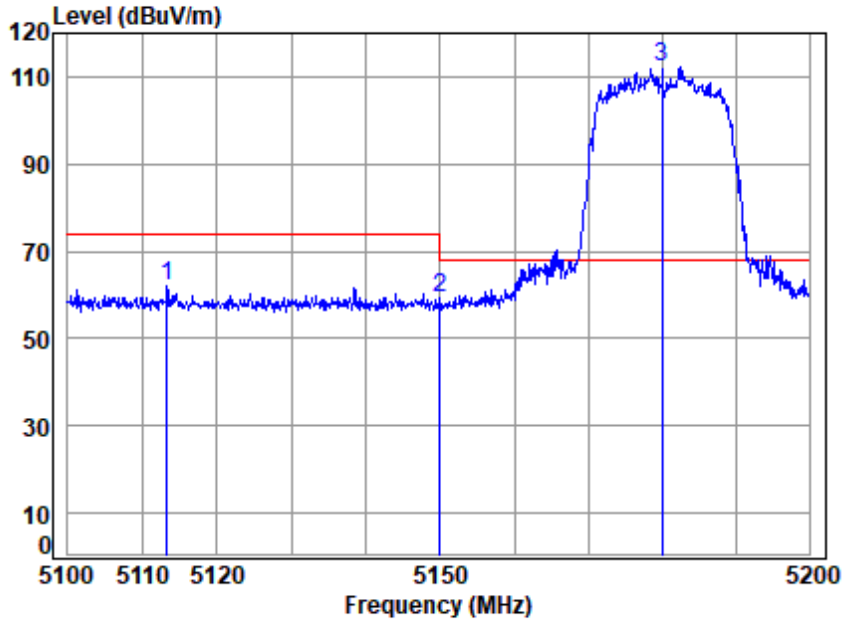
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

	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	5113.288	7.51	34.29	42.31	62.34	61.83	74.00	-12.17	peak
2	5149.980	7.57	34.32	42.32	59.97	59.54	74.00	-14.46	peak
3 *	5180.000	7.63	34.35	42.32	112.53	112.19	68.20	43.99	peak

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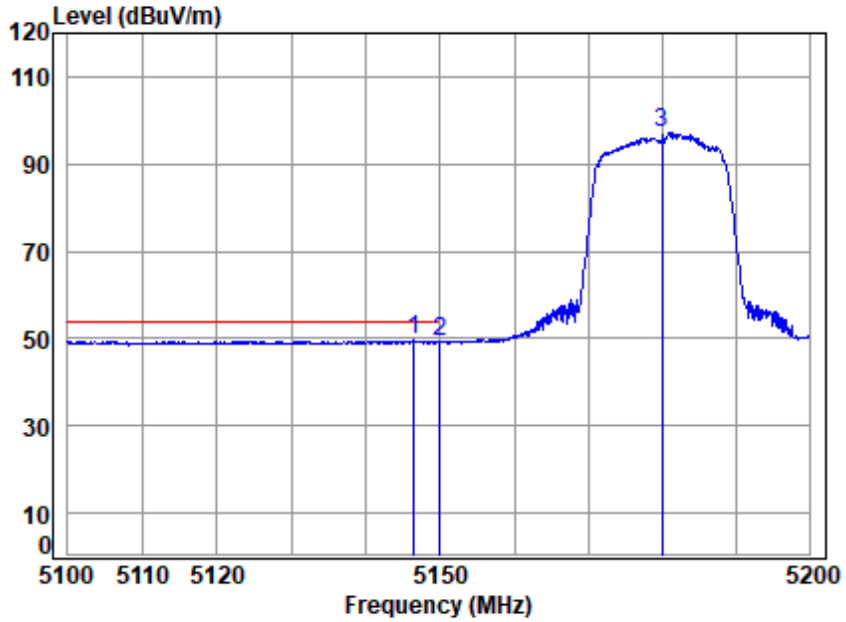
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

	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	5146.458	7.57	34.32	42.32	49.97	49.54	54.00	-4.46	Average
2	5149.980	7.57	34.32	42.32	49.68	49.25	54.00	-4.75	Average
3	5180.000	7.63	34.35	42.32	97.50	97.16	------	------	Average

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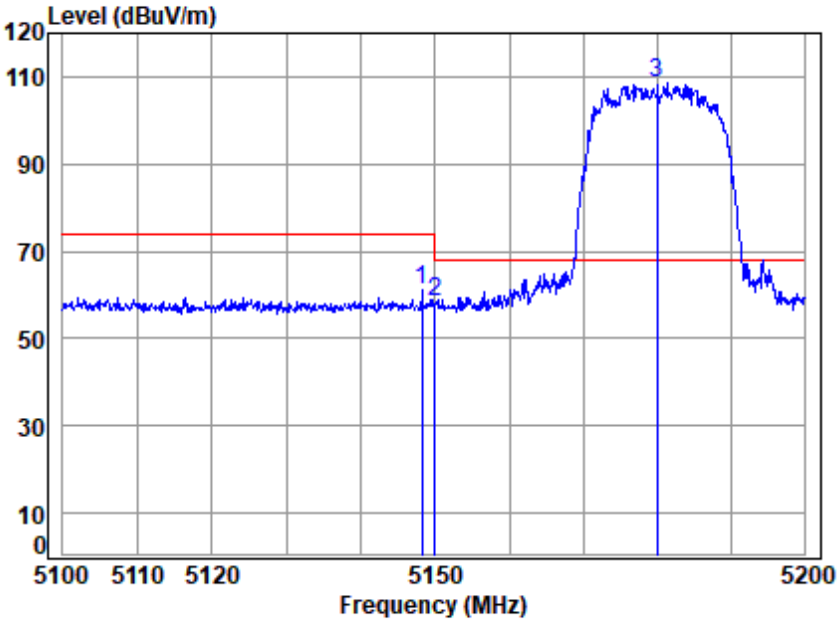
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

	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	5148.257	7.57	34.32	42.32	61.56	61.13	74.00	-12.87	Peak
2	5149.980	7.57	34.32	42.32	58.68	58.25	74.00	-15.75	Peak
3 *	5180.000	7.63	34.35	42.32	108.71	108.37	68.20	40.17	Peak

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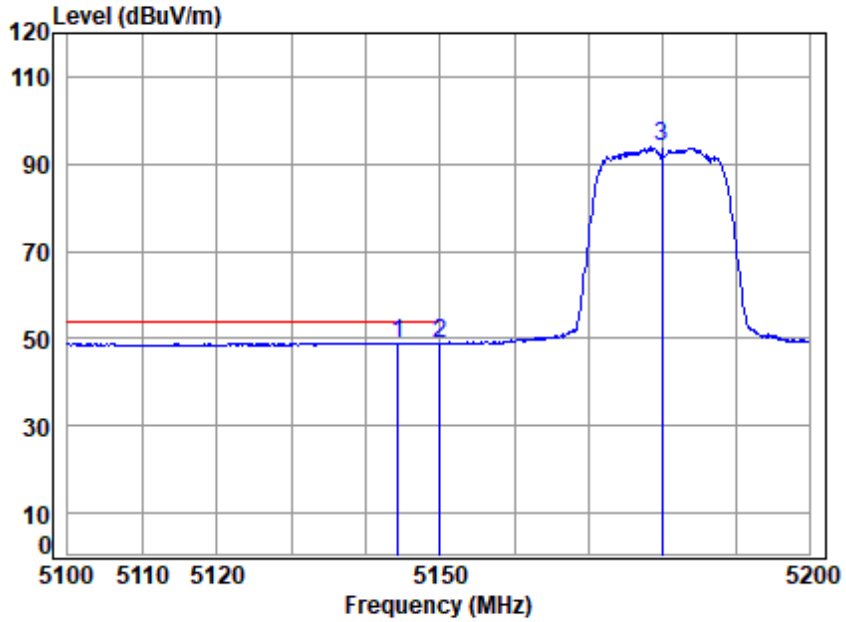
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

	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	5144.260	7.56	34.32	42.32	49.48	49.04	54.00	-4.96	Average
2	5149.980	7.57	34.32	42.32	49.36	48.93	54.00	-5.07	Average
3	5180.000	7.63	34.35	42.32	94.11	93.77	------	------	Average

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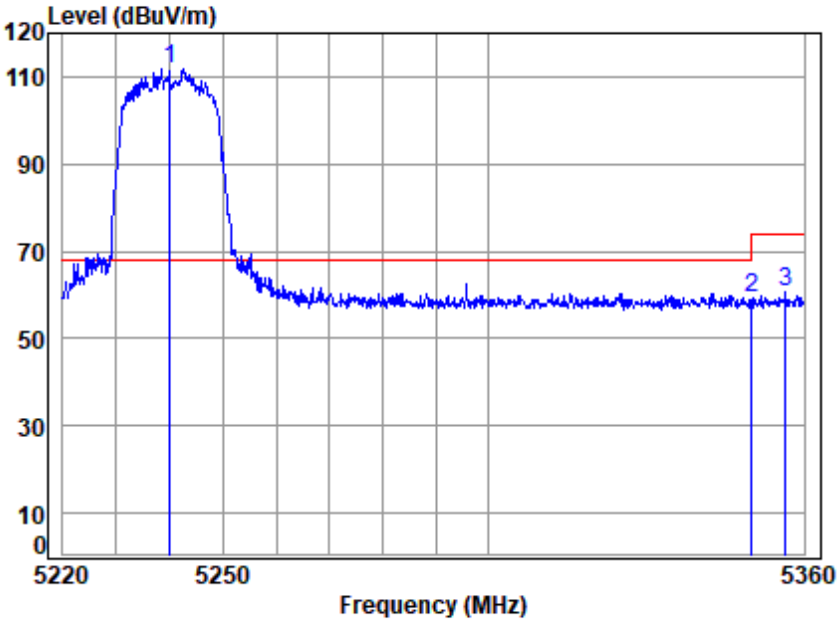
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




```
Site      : chamber
Condition: 3m HORIZONTAL
Job No    : 01123CR
Mode      : 5240 Band edge
          : 5G WIFI 11AC20
```

		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	*	5240.000	7.73	34.40	42.33	112.11	111.91	68.20	43.71	peak
2		5350.020	7.92	34.48	42.34	59.47	59.53	74.00	-14.47	peak
3		5356.455	7.94	34.49	42.34	60.82	60.91	74.00	-13.09	peak

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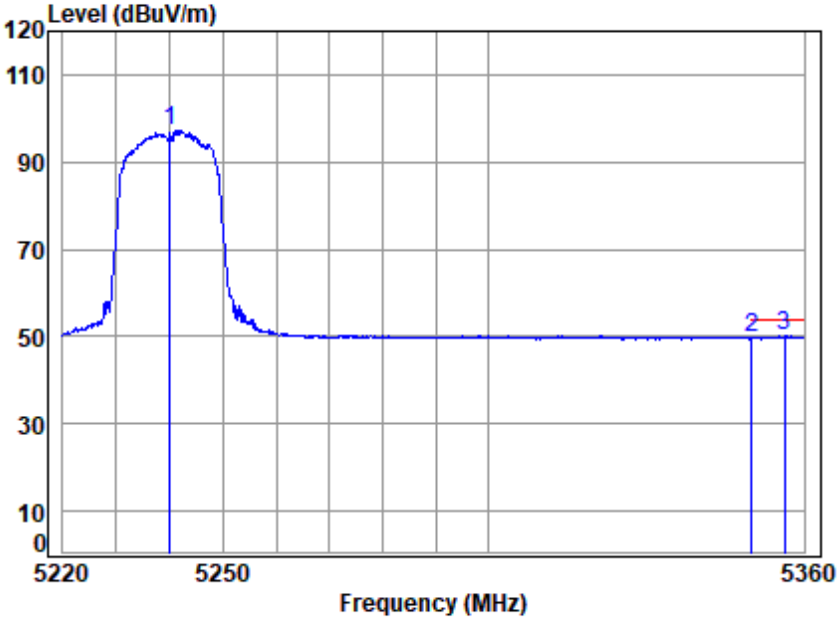
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	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	5240.000	7.73	34.40	42.33	97.37	97.17	------	------	Average
2	5350.020	7.92	34.48	42.34	49.61	49.67	54.00	-4.33	Average
3	5356.171	7.94	34.49	42.34	49.97	50.06	54.00	-3.94	Average

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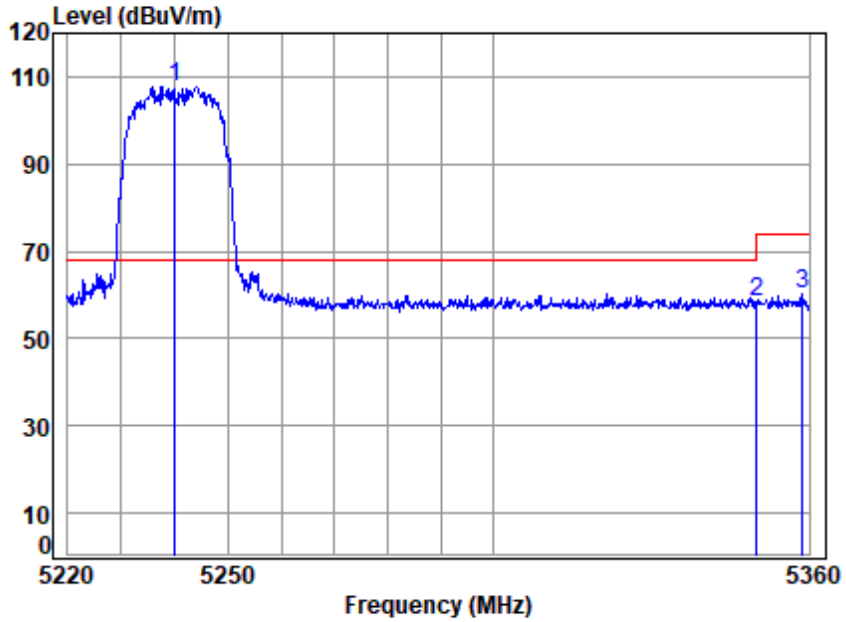
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	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 *	5240.000	7.73	34.40	42.33	108.10	107.90	68.20	39.70	Peak
2	5350.020	7.92	34.48	42.34	58.26	58.32	74.00	-15.68	Peak
3	5358.724	7.94	34.49	42.34	60.00	60.09	74.00	-13.91	Peak

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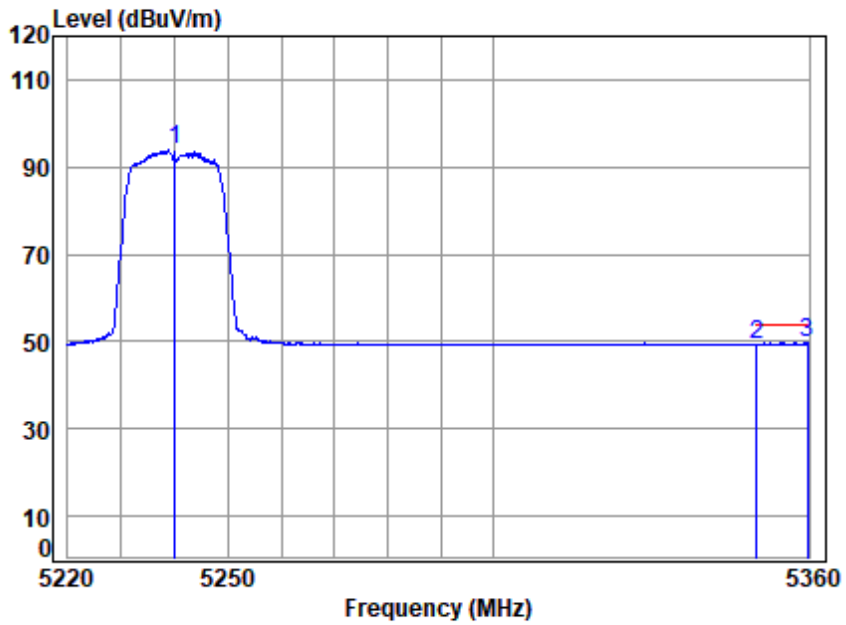
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	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	5240.000	7.73	34.40	42.33	93.97	93.77	------	------	Average
2	5350.020	7.92	34.48	42.34	49.30	49.36	54.00	-4.64	Average
3	5359.716	7.94	34.49	42.34	49.53	49.62	54.00	-4.38	Average

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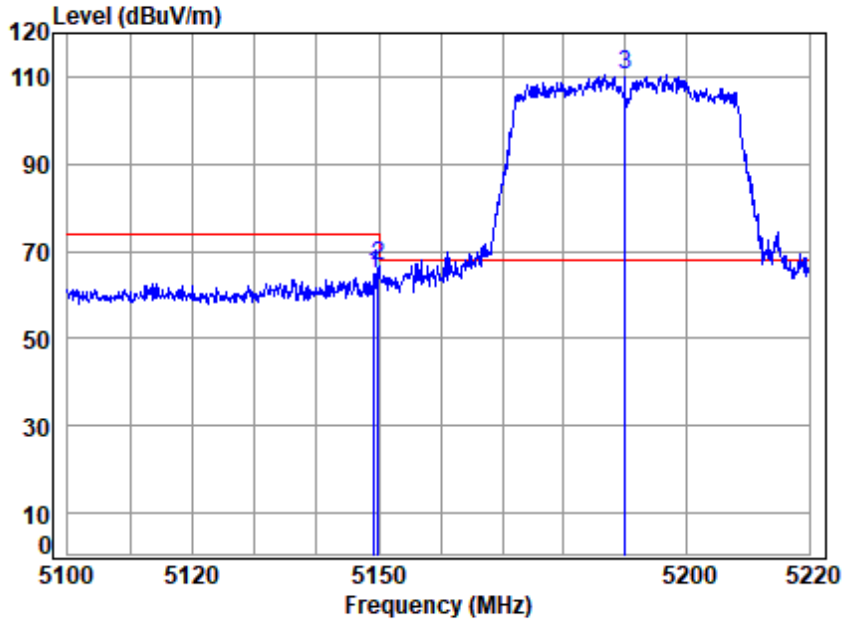
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

	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	5149.222	7.57	34.32	42.32	65.30	64.87	74.00	-9.13	peak
2	5149.980	7.57	34.32	42.32	66.82	66.39	74.00	-7.61	peak
3 *	5190.000	7.64	34.36	42.32	110.65	110.33	68.20	42.13	peak

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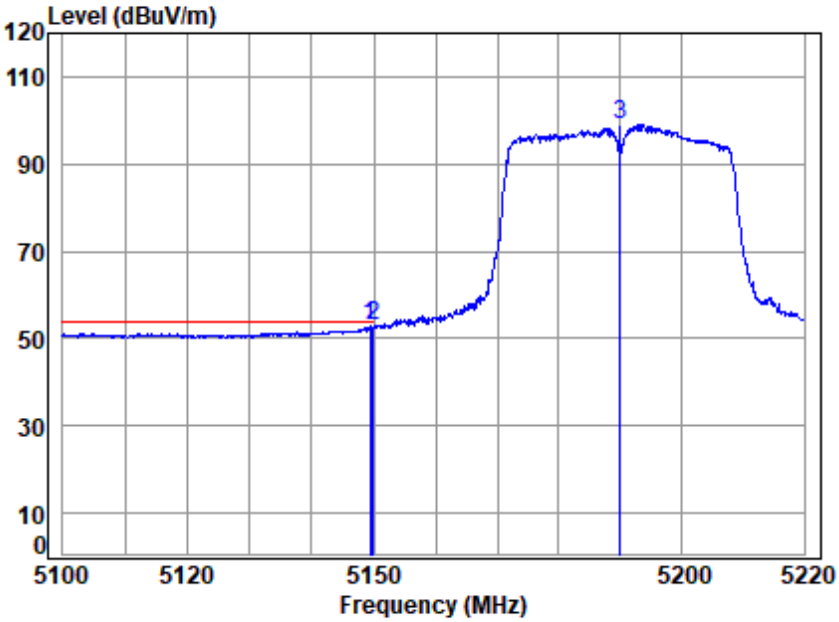
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

	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	5149.461	7.57	34.32	42.32	53.19	52.76	54.00	-1.24	Average
2	5149.980	7.57	34.32	42.32	53.27	52.84	54.00	-1.16	Average
3	5190.000	7.64	34.36	42.32	99.27	98.95	------	------	Average

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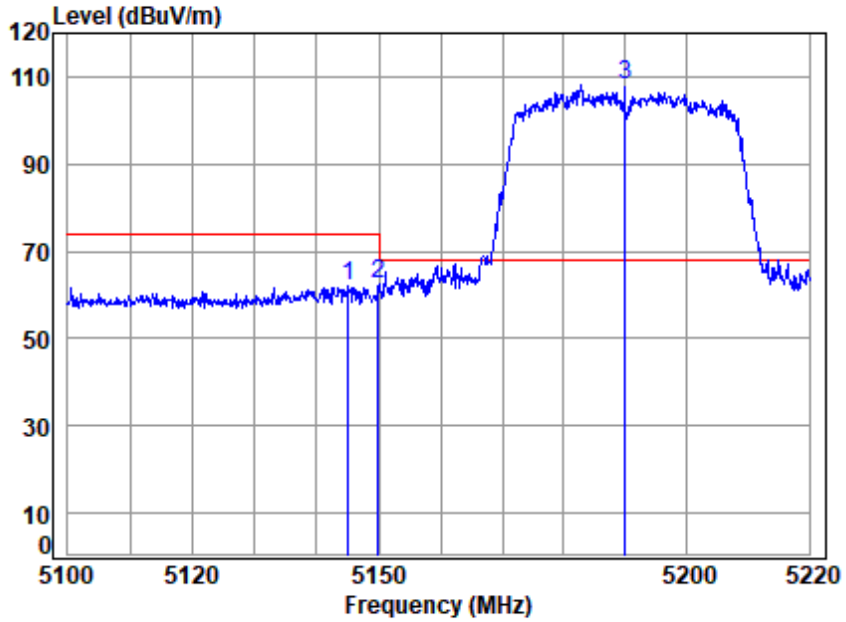
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

	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	5145.152	7.56	34.32	42.32	62.33	61.89	74.00	-12.11	Peak
2	5149.980	7.57	34.32	42.32	63.14	62.71	74.00	-11.29	Peak
3 *	5190.000	7.64	34.36	42.32	108.32	108.00	68.20	39.80	Peak

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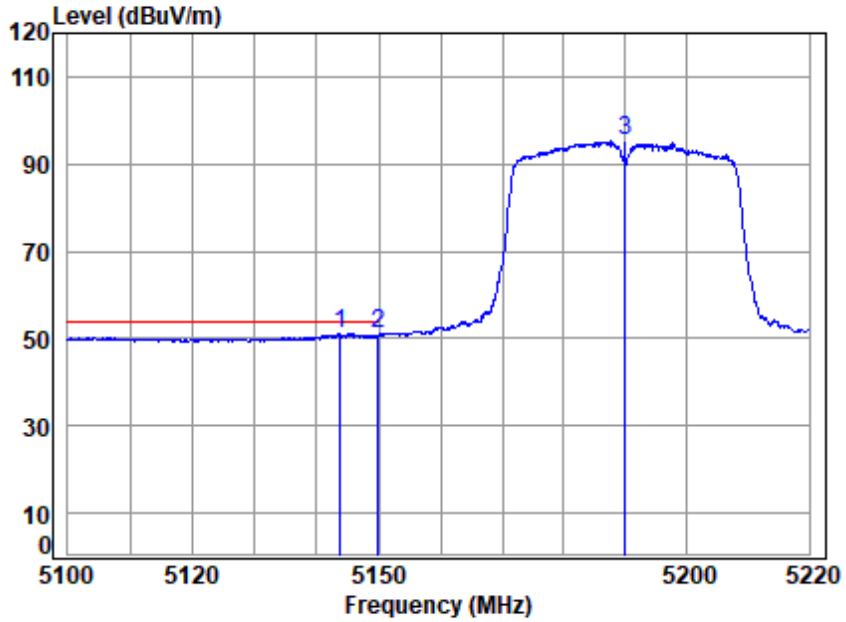
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

	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	5143.716	7.56	34.32	42.32	51.46	51.02	54.00	-2.98	Average
2	5149.980	7.57	34.32	42.32	51.39	50.96	54.00	-3.04	Average
3	5190.000	7.64	34.36	42.32	95.48	95.16	------	------	Average

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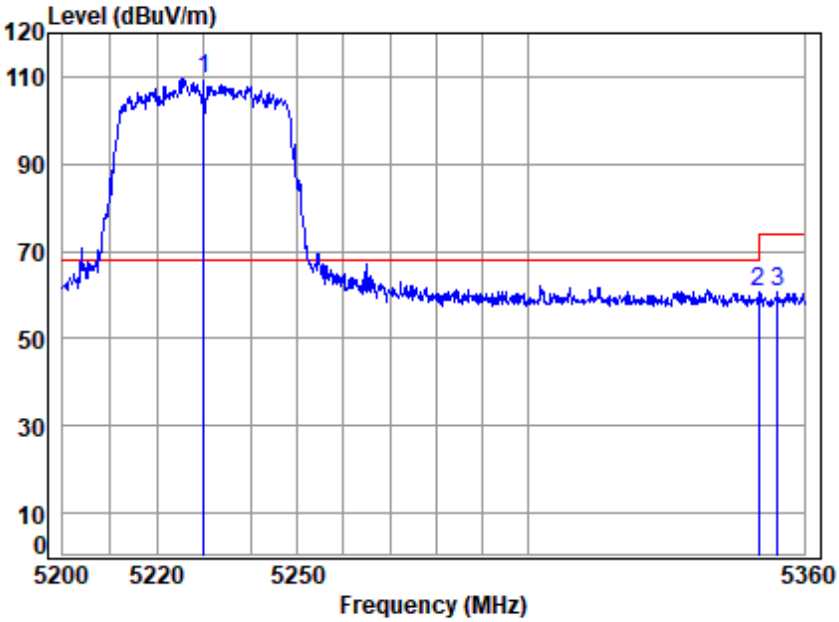
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




```
Site      : chamber
Condition: 3m HORIZONTAL
Job No    : 01123CR
Mode      : 5230 Band edge
          : 5G WIFI 11AC40
```

	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 *	5230.000	7.72	34.39	42.32	109.78	109.57	68.20	41.37	peak
2	5350.020	7.92	34.48	42.34	60.67	60.73	74.00	-13.27	peak
3	5354.155	7.93	34.49	42.34	60.80	60.88	74.00	-13.12	peak

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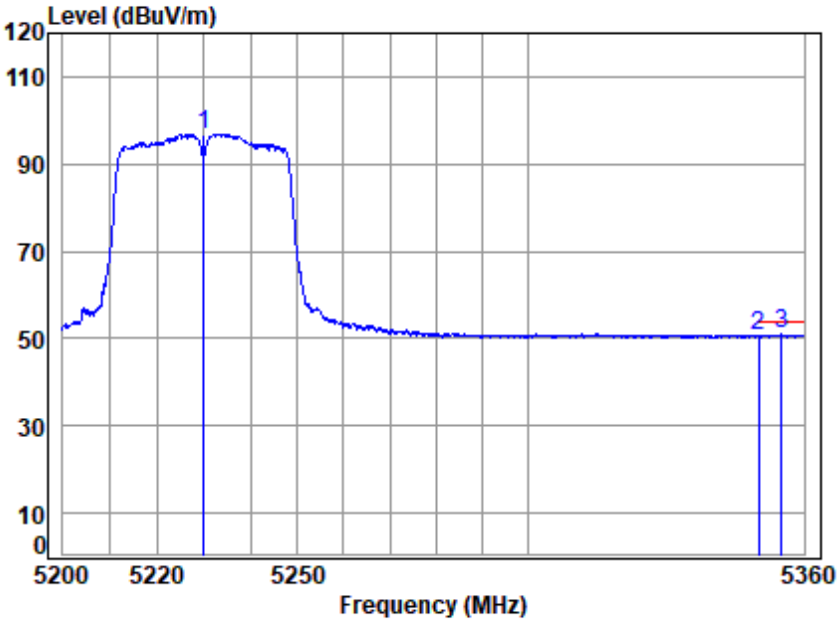
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

	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	5230.000	7.72	34.39	42.32	97.05	96.84	------	------	Average
2	5350.020	7.92	34.48	42.34	50.52	50.58	54.00	-3.42	Average
3	5355.129	7.93	34.49	42.34	50.83	50.91	54.00	-3.09	Average

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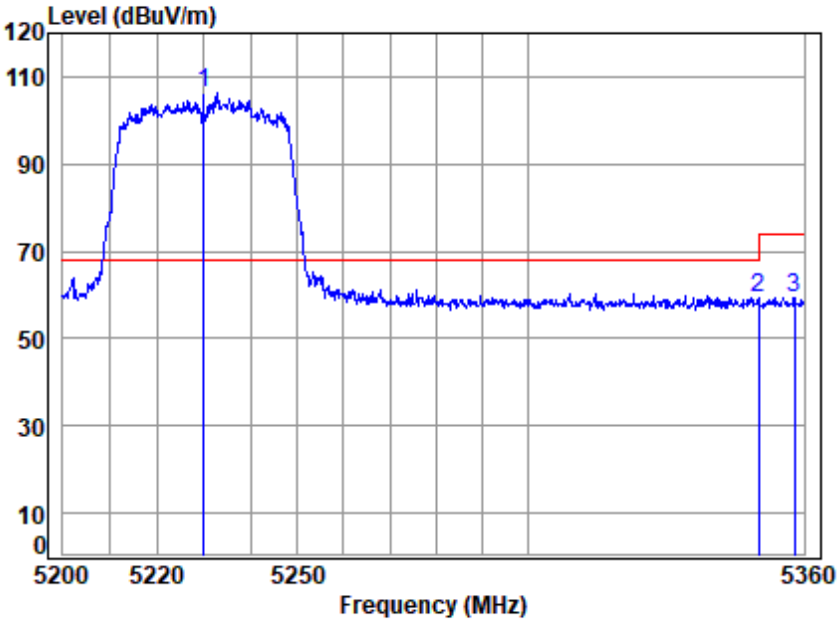
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

	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 *	5230.000	7.72	34.39	42.32	106.37	106.16	68.20	37.96	Peak
2	5350.020	7.92	34.48	42.34	59.15	59.21	74.00	-14.79	Peak
3	5357.889	7.94	34.49	42.34	59.15	59.24	74.00	-14.76	Peak

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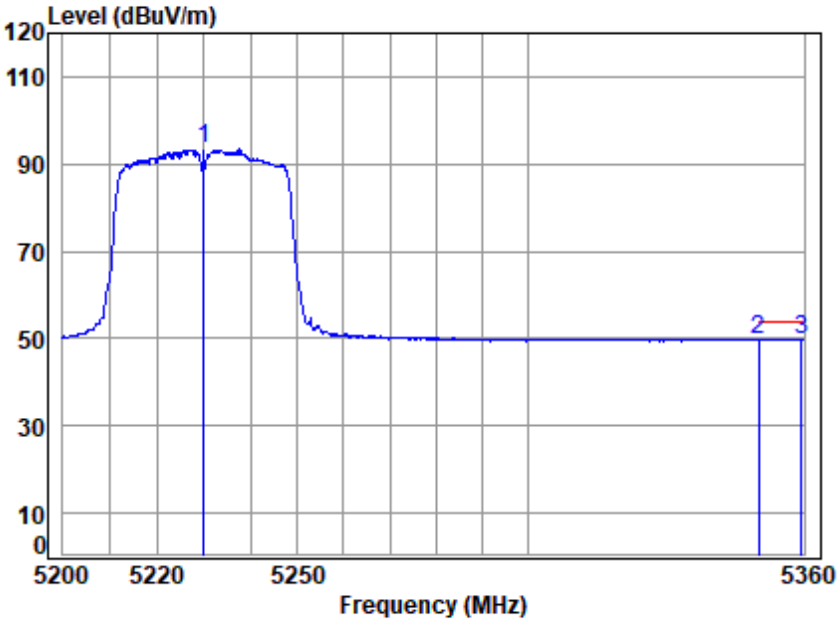
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

	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	5230.000	7.72	34.39	42.32	93.64	93.43	------	------	Average
2	5350.020	7.92	34.48	42.34	49.74	49.80	54.00	-4.20	Average
3	5359.513	7.94	34.49	42.34	49.76	49.85	54.00	-4.15	Average

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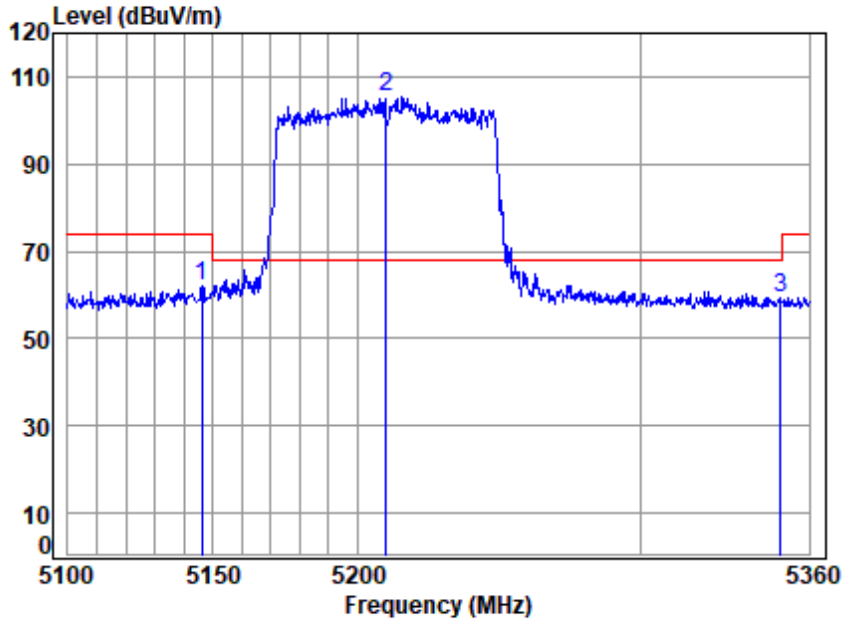
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

	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	5146.107	7.57	34.32	42.32	62.70	62.27	74.00	-11.73	peak
2 *	5210.000	7.68	34.37	42.32	105.81	105.54	68.20	37.34	peak
3	5349.882	7.92	34.48	42.34	59.33	59.39	68.20	-8.81	peak

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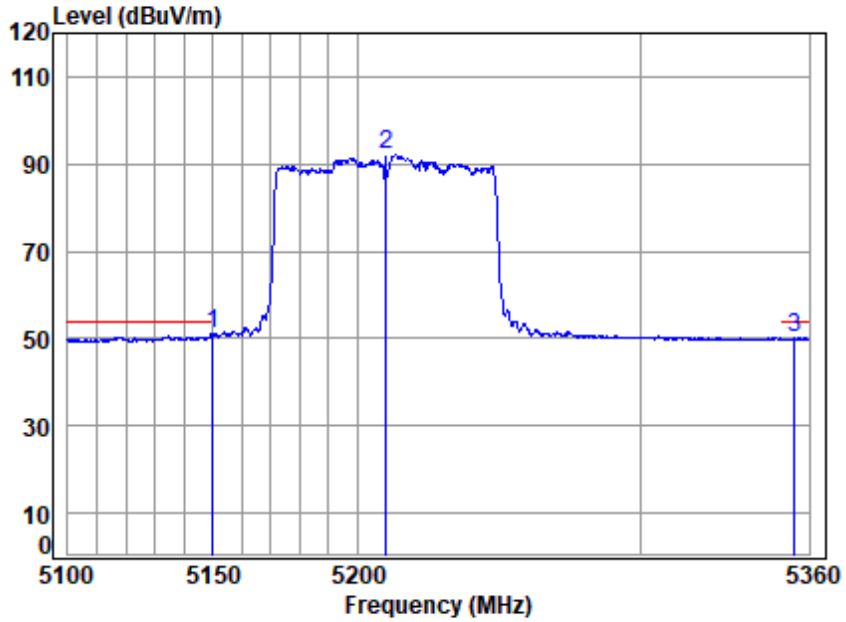
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

	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	5149.690	7.57	34.32	42.32	51.59	51.16	54.00	-2.84	Average
2	5210.000	7.68	34.37	42.32	92.42	92.15	------	------	Average
3	5354.672	7.93	34.49	42.34	50.08	50.16	54.00	-3.84	Average

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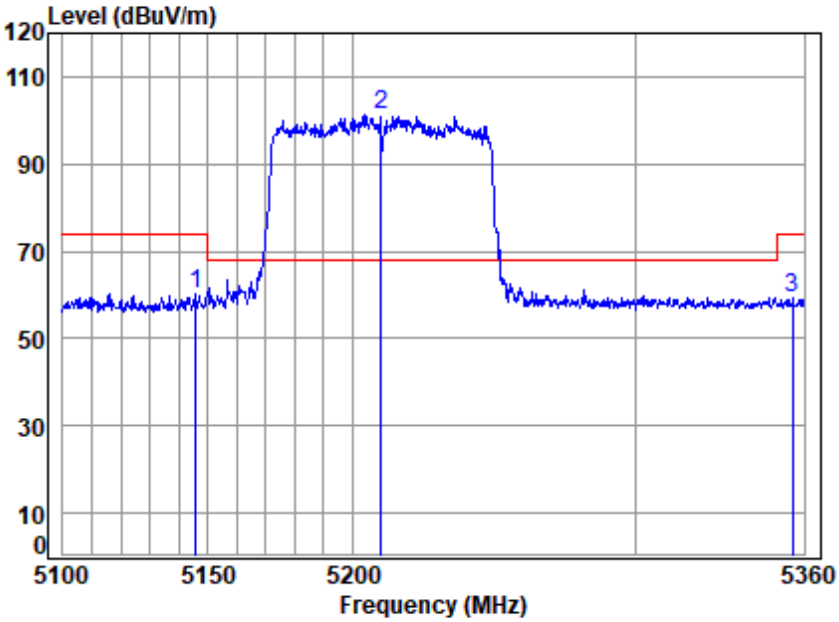
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

	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	5145.595	7.57	34.32	42.32	60.54	60.11	74.00	-13.89	Peak
2 *	5210.000	7.68	34.37	42.32	101.61	101.34	68.20	33.14	Peak
3	5356.004	7.94	34.49	42.34	59.15	59.24	74.00	-14.76	Peak

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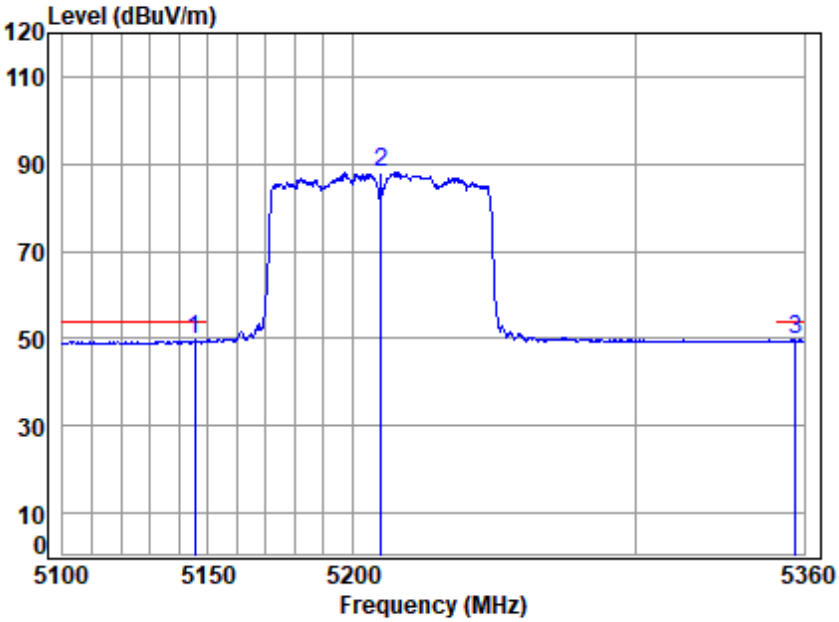
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

	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	5145.339	7.56	34.32	42.32	50.06	49.62	54.00	-4.38	Average
2	5210.000	7.68	34.37	42.32	88.25	87.98	------	------	Average
3	5356.803	7.94	34.49	42.34	49.54	49.63	54.00	-4.37	Average

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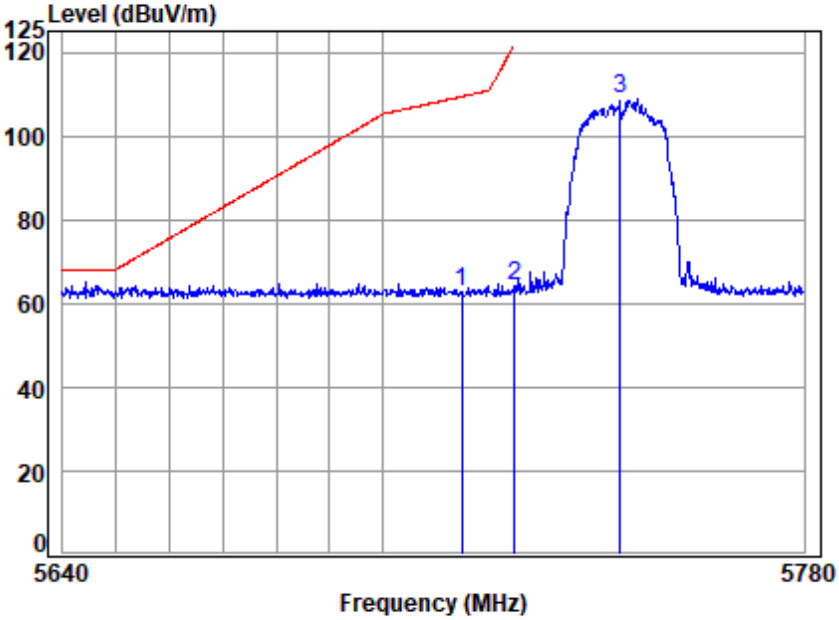
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5745 Band edge
: 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	5715.000	8.22	34.82	34.56	54.33	62.81	109.40	-46.59	peak
2	5725.000	8.22	34.83	34.56	55.45	63.94	122.20	-58.26	peak
3	5745.000	8.22	34.85	34.57	100.29	108.79	------	------	peak

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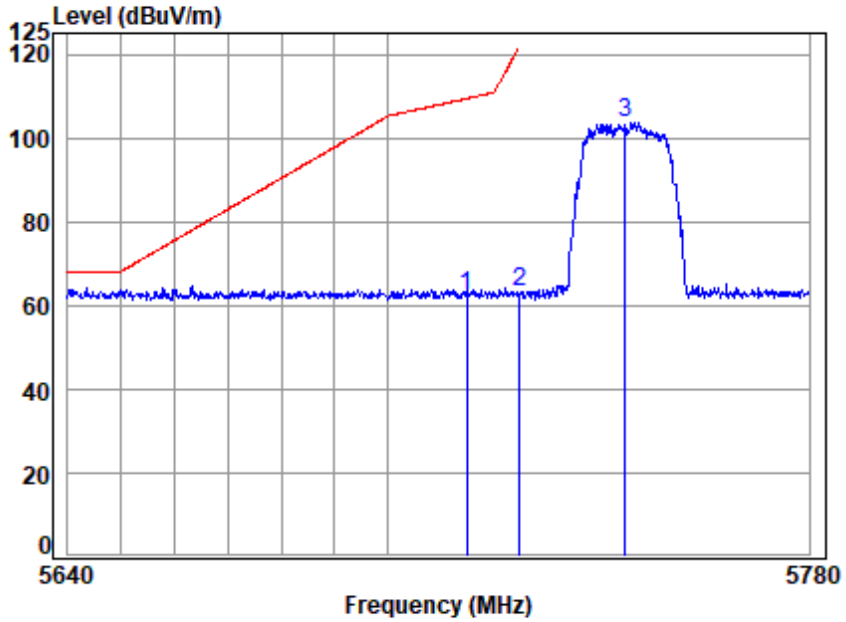
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5745 Band edge
: 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	5715.000	8.22	34.82	34.56	53.99	62.47	109.40	-46.93	peak
2	5725.000	8.22	34.83	34.56	54.56	63.05	122.20	-59.15	peak
3	5745.000	8.22	34.85	34.57	95.17	103.67	------	------	peak

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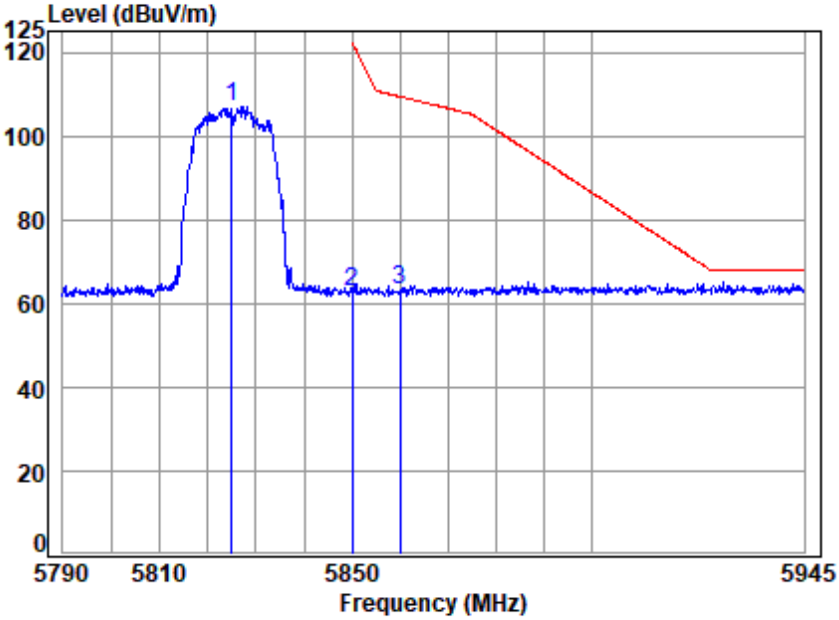
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5825 Band edge
: 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	5825.000	8.23	34.93	34.58	98.42	107.00	------	------	peak
2	5850.000	8.24	34.95	34.58	54.03	62.64	122.20	-59.56	peak
3	5860.000	8.24	34.96	34.58	54.49	63.11	109.40	-46.29	peak

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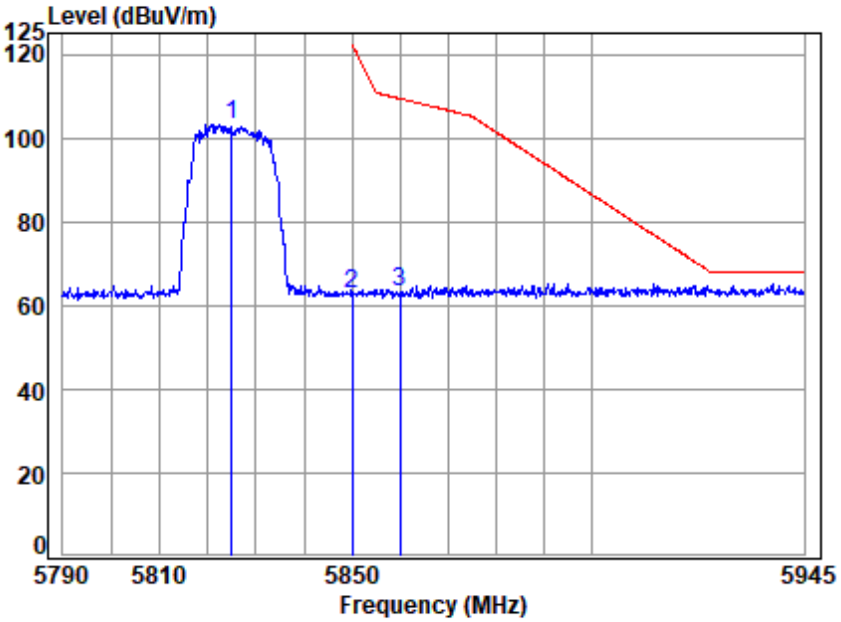
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5825 Band edge
: 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	5825.000	8.23	34.93	34.58	94.78	103.36	------	------	peak
2	5850.000	8.24	34.95	34.58	54.35	62.96	122.20	-59.24	peak
3	5860.000	8.24	34.96	34.58	54.60	63.22	109.40	-46.18	peak

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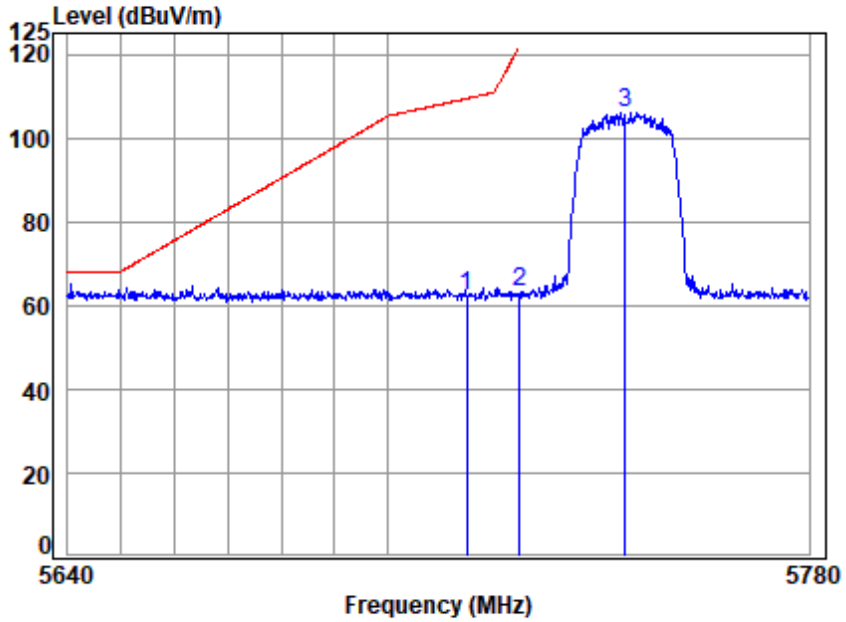
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5745 Band edge
: 5G WIFI 11N

	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	5715.000	8.22	34.82	34.56	53.96	62.44	109.40	-46.96	peak
2	5725.000	8.22	34.83	34.56	54.72	63.21	122.20	-58.99	peak
3	5745.000	8.22	34.85	34.57	97.55	106.05	------	------	peak

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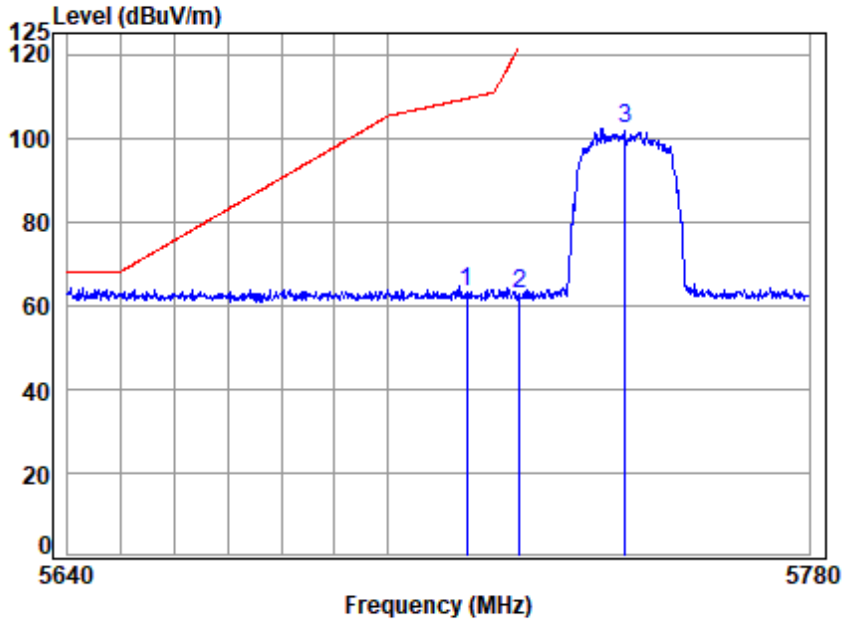
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5745 Band edge
: 5G WIFI 11N

	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	5715.000	8.22	34.82	34.56	54.56	63.04	109.40	-46.36	peak
2	5725.000	8.22	34.83	34.56	54.30	62.79	122.20	-59.41	peak
3	5745.000	8.22	34.85	34.57	93.92	102.42	------	------	peak

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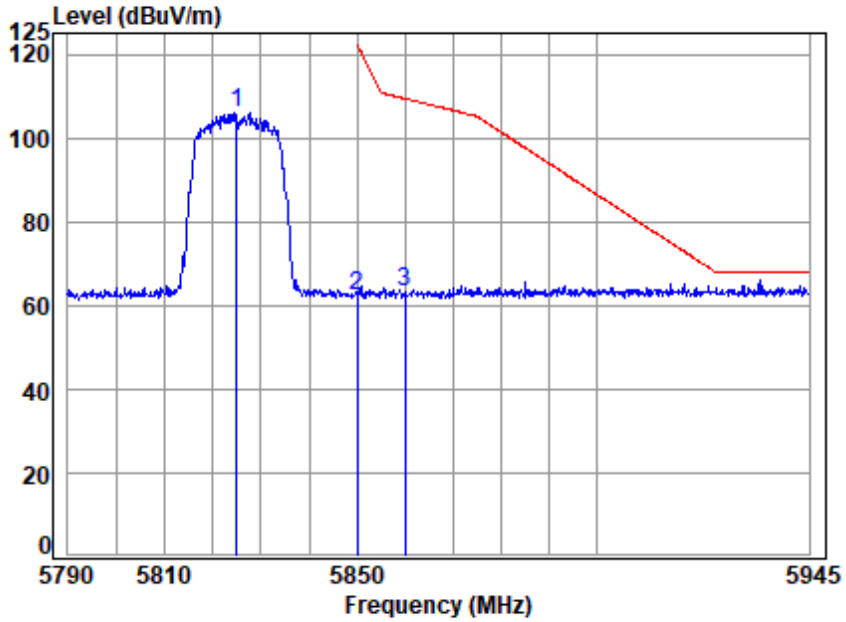
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5825 Band edge
: 5G WIFI 11N

	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	5825.000	8.23	34.93	34.58	97.35	105.93	------	------	peak
2	5850.000	8.24	34.95	34.58	53.64	62.25	122.20	-59.95	peak
3	5860.000	8.24	34.96	34.58	54.45	63.07	109.40	-46.33	peak

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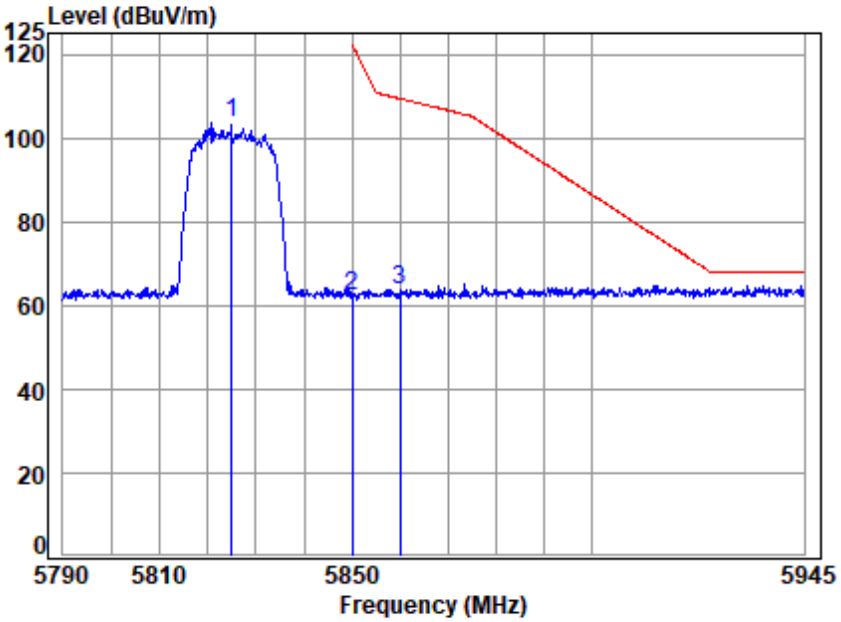
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5825 Band edge
: 5G WIFI 11N

	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	5825.000	8.23	34.93	34.58	94.80	103.38	------	------	peak
2	5850.000	8.24	34.95	34.58	53.65	62.26	122.20	-59.94	peak
3	5860.000	8.24	34.96	34.58	55.28	63.90	109.40	-45.50	peak

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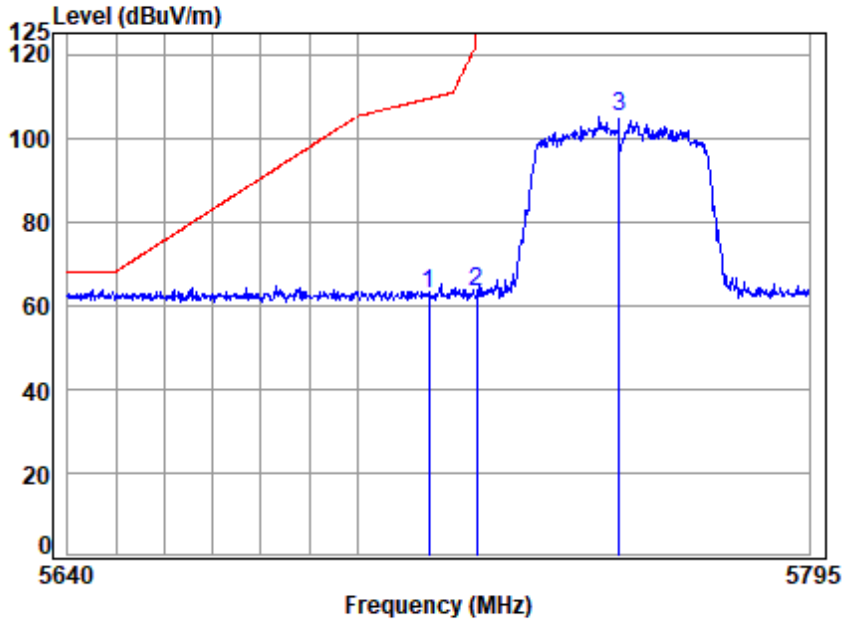
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5755 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	5715.000	8.22	34.82	34.56	54.24	62.72	109.40	-46.68	peak
2	5725.000	8.22	34.83	34.56	54.64	63.13	122.20	-59.07	peak
3	5755.000	8.22	34.86	34.57	96.44	104.95	------	------	peak

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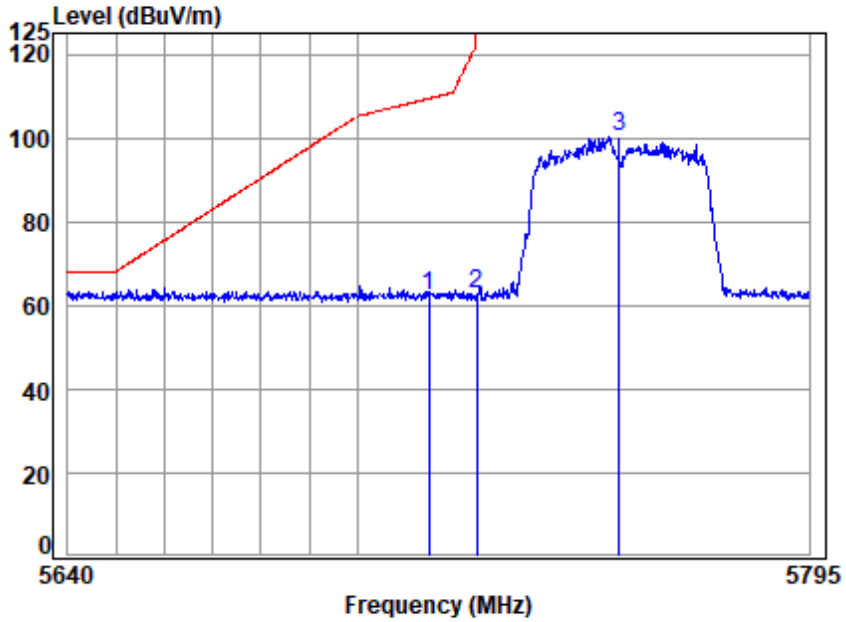
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5755 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	5715.000	8.22	34.82	34.56	53.70	62.18	109.40	-47.22	peak
2	5725.000	8.22	34.83	34.56	54.02	62.51	122.20	-59.69	peak
3	5755.000	8.22	34.86	34.57	91.76	100.27	------	------	peak

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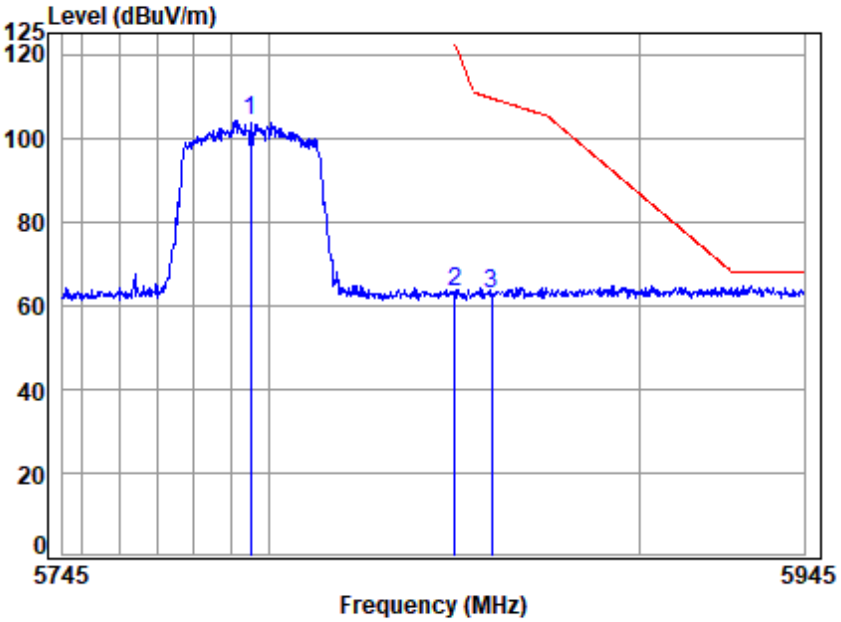
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




```
Site      : chamber
Condition: 3m HORIZONTAL
Job No    : 01123CR
Mode      : 5795 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	5795.000	8.23	34.90	34.59	95.49	104.03	------	------	peak
2	5850.000	8.24	34.95	34.58	54.81	63.42	122.20	-58.78	peak
3	5860.000	8.24	34.96	34.58	53.93	62.55	109.40	-46.85	peak

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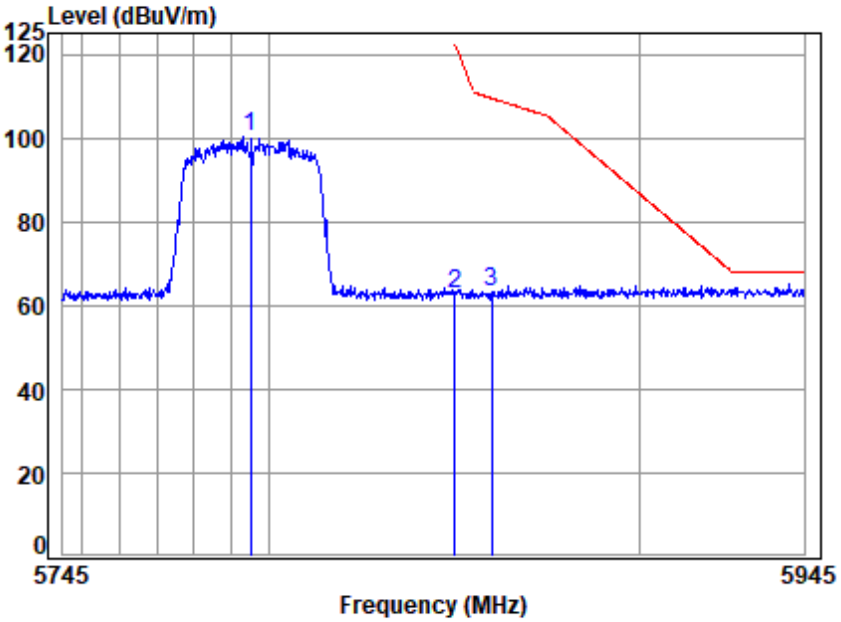
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5795 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	5795.000	8.23	34.90	34.59	91.52	100.06	------	------	peak
2	5850.000	8.24	34.95	34.58	54.25	62.86	122.20	-59.34	peak
3	5860.000	8.24	34.96	34.58	54.53	63.15	109.40	-46.25	peak

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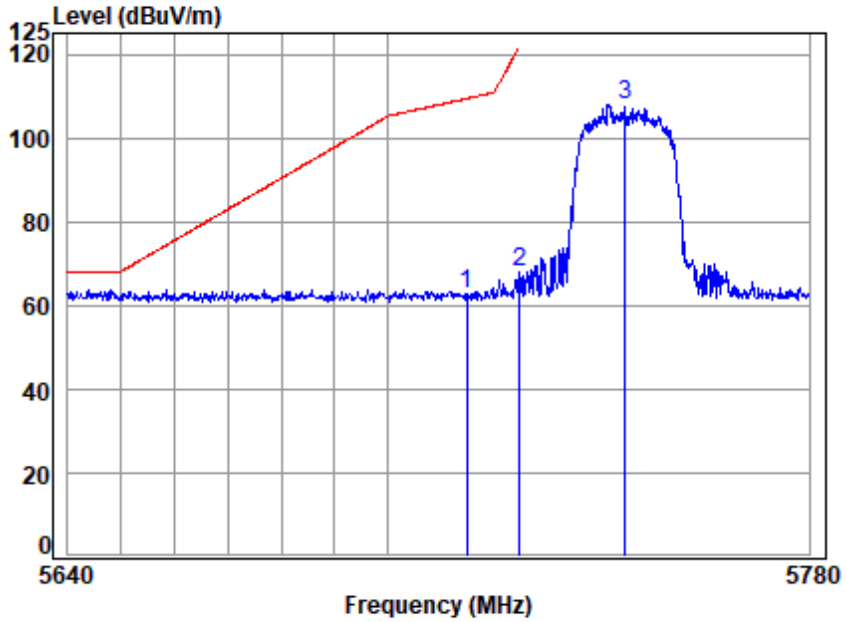
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5745 Band edge
: 5G WIFI 11AC20

	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	5715.000	8.22	34.82	34.56	54.18	62.66	109.40	-46.74	peak
2	5725.000	8.22	34.83	34.56	59.62	68.11	122.20	-54.09	peak
3	5745.000	8.22	34.85	34.57	99.46	107.96	------	------	peak

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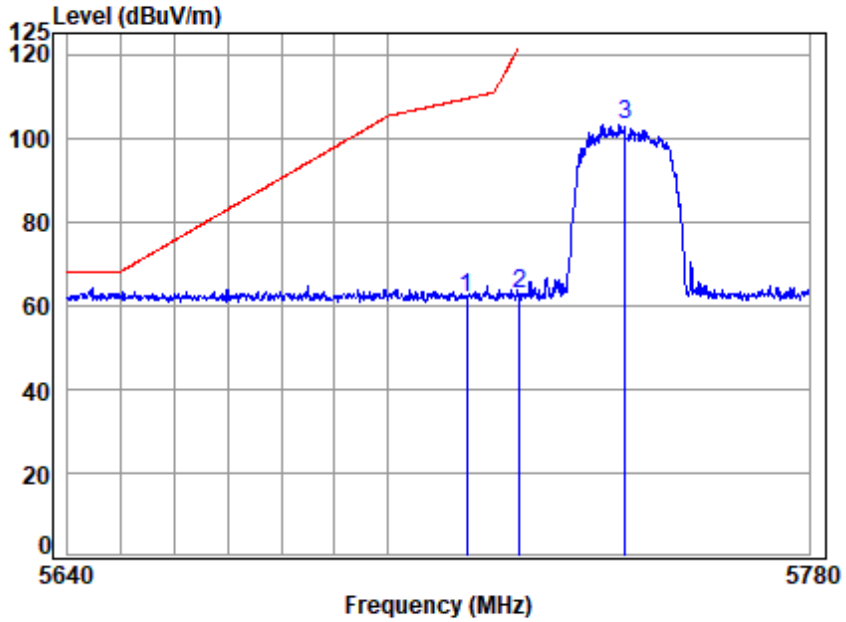
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




```
Site      : chamber
Condition: 3m VERTICAL
Job No    : 01123CR
Mode      : 5745 Band edge
          : 5G WIFI 11AC20
```

	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	5715.000	8.22	34.82	34.56	53.09	61.57	109.40	-47.83	peak
2	5725.000	8.22	34.83	34.56	54.37	62.86	122.20	-59.34	peak
3	5745.000	8.22	34.85	34.57	94.86	103.36	------	------	peak

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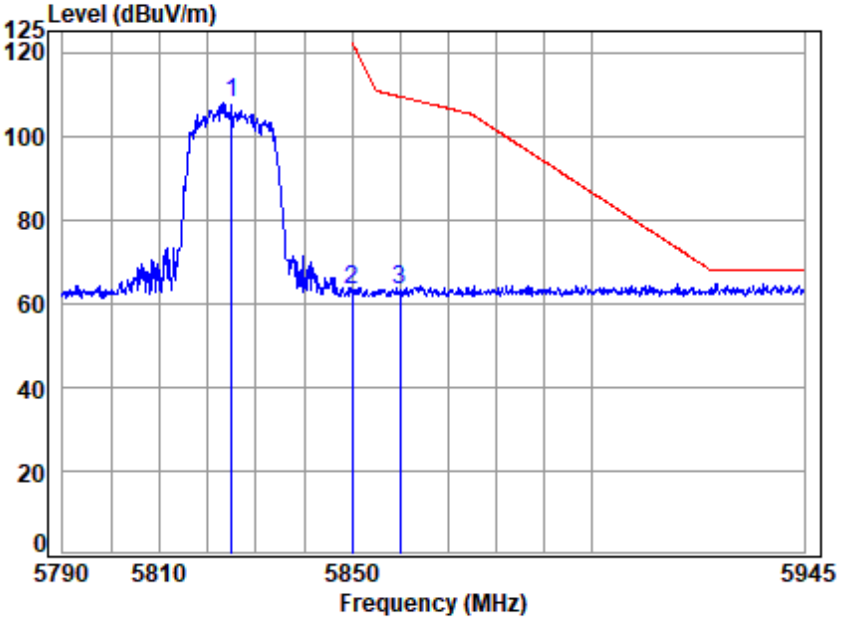
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5825 Band edge
: 5G WIFI 11AC20

	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	5825.000	8.23	34.93	34.58	99.10	107.68	------	------	peak
2	5850.000	8.24	34.95	34.58	54.70	63.31	122.20	-58.89	peak
3	5860.000	8.24	34.96	34.58	54.44	63.06	109.40	-46.34	peak

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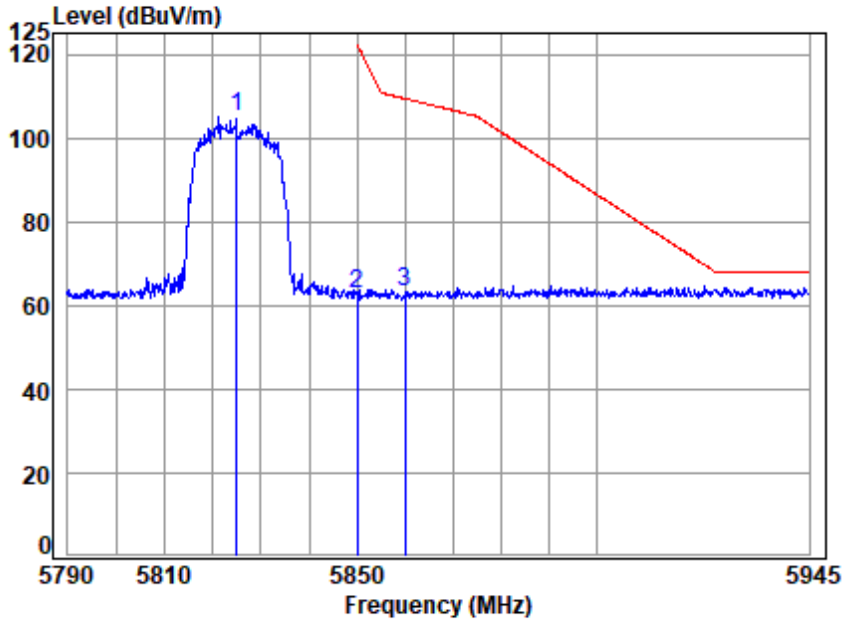
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5825 Band edge
: 5G WIFI 11AC20

	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	5825.000	8.23	34.93	34.58	96.54	105.12	------	------	peak
2	5850.000	8.24	34.95	34.58	54.08	62.69	122.20	-59.51	peak
3	5860.000	8.24	34.96	34.58	54.68	63.30	109.40	-46.10	peak

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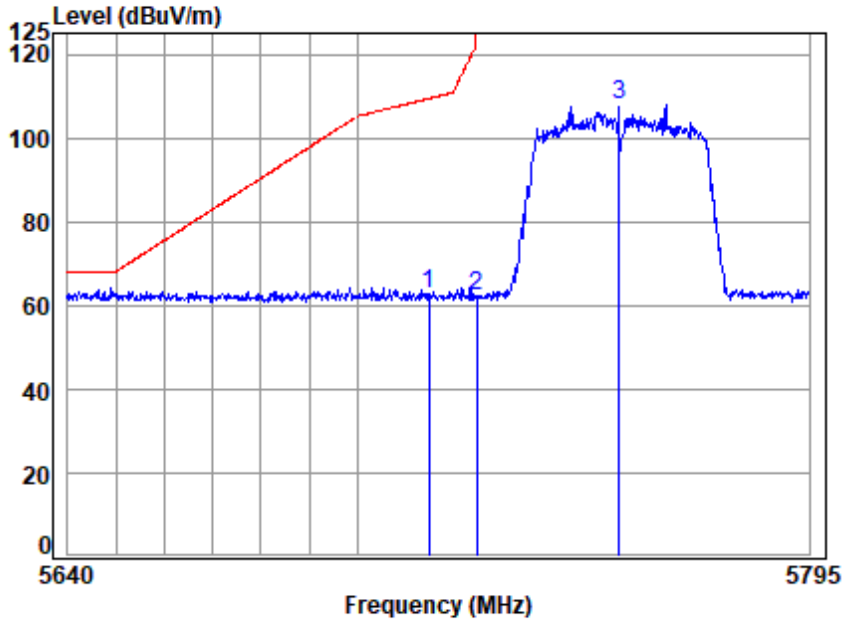
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5755 Band edge
: 5G WIFI 11AC40

	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	5715.000	8.22	34.82	34.56	54.16	62.64	109.40	-46.76	peak
2	5725.000	8.22	34.83	34.56	53.71	62.20	122.20	-60.00	peak
3	5755.000	8.22	34.86	34.57	99.17	107.68	------	------	peak

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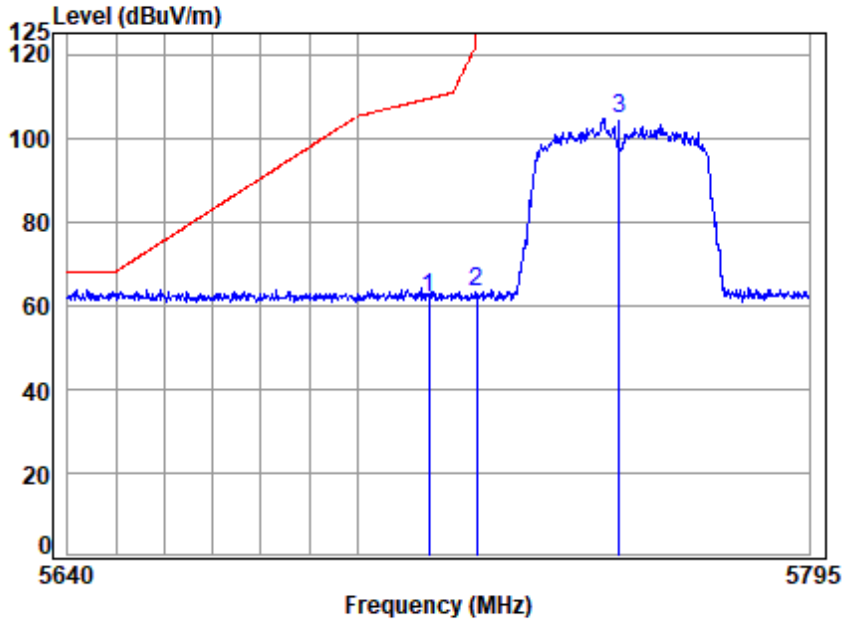
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5755 Band edge
: 5G WIFI 11AC40

	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	5715.000	8.22	34.82	34.56	53.29	61.77	109.40	-47.63	peak
2	5725.000	8.22	34.83	34.56	54.76	63.25	122.20	-58.95	peak
3	5755.000	8.22	34.86	34.57	96.10	104.61	------	------	peak

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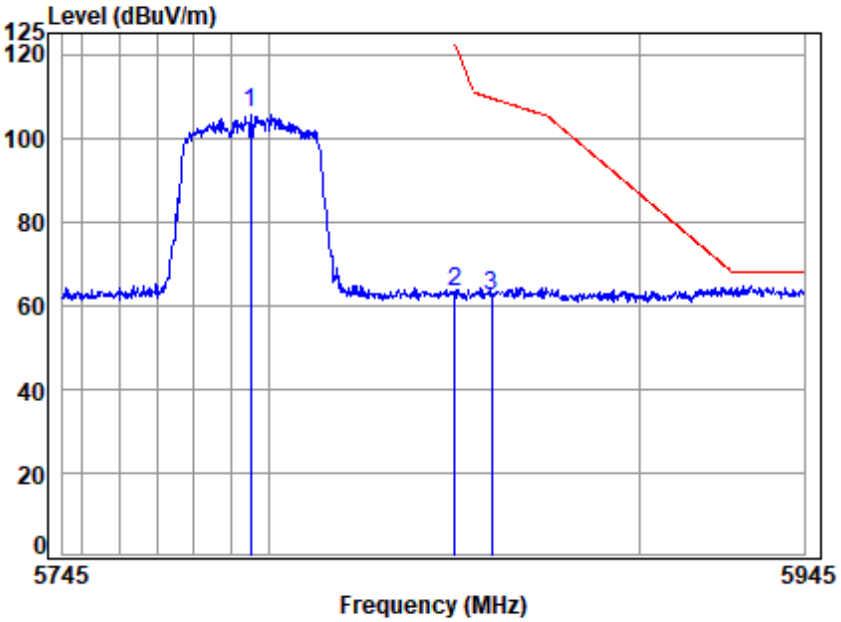
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




```
Site      : chamber
Condition: 3m HORIZONTAL
Job No    : 01123CR
Mode      : 5795 Band edge
          : 5G WIFI 11AC40
```

	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	5795.000	8.23	34.90	34.59	97.49	106.03	------	------	peak
2	5850.000	8.24	34.95	34.58	54.62	63.23	122.20	-58.97	peak
3	5860.000	8.24	34.96	34.58	53.73	62.35	109.40	-47.05	peak

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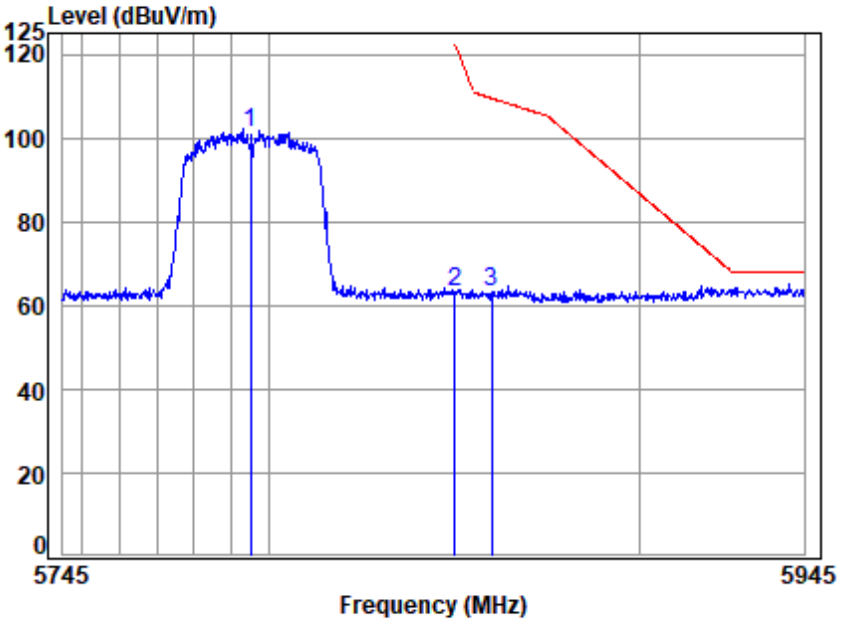
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5795 Band edge
: 5G WIFI 11AC40

	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	5795.000	8.23	34.90	34.59	92.52	101.06	------	------	peak
2	5850.000	8.24	34.95	34.58	54.82	63.43	122.20	-58.77	peak
3	5860.000	8.24	34.96	34.58	54.73	63.35	109.40	-46.05	peak

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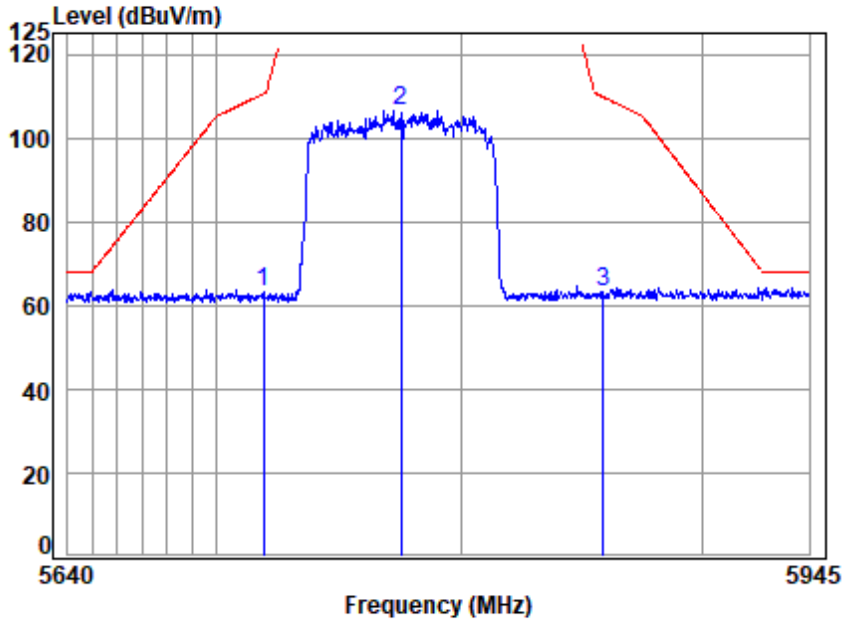
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01123CR
Mode : 5775 Band edge
: 5G WIFI 11AC80

	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	5718.966	8.22	34.82	34.56	54.69	63.17	110.51	-47.34	peak
2	5775.000	8.22	34.88	34.58	98.01	106.53	------	------	peak
3	5858.592	8.24	34.96	34.58	54.67	63.29	109.79	-46.50	peak

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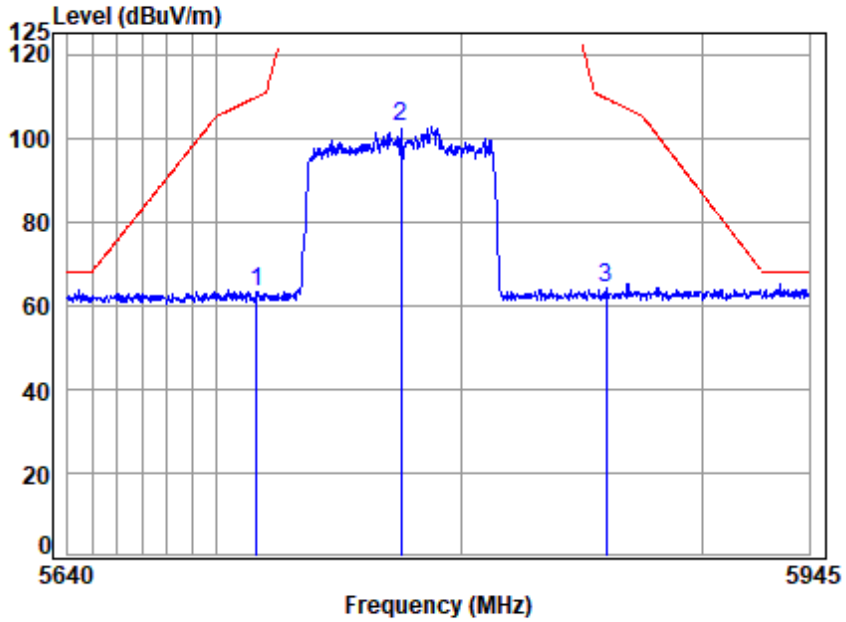
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01123CR
Mode : 5775 Band edge
: 5G WIFI 11AC80

	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	5716.256	8.22	34.82	34.56	54.89	63.37	109.75	-46.38	peak
2	5775.000	8.22	34.88	34.58	94.03	102.55	------	------	peak
3	5860.135	8.24	34.96	34.58	55.52	64.14	109.36	-45.22	peak

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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

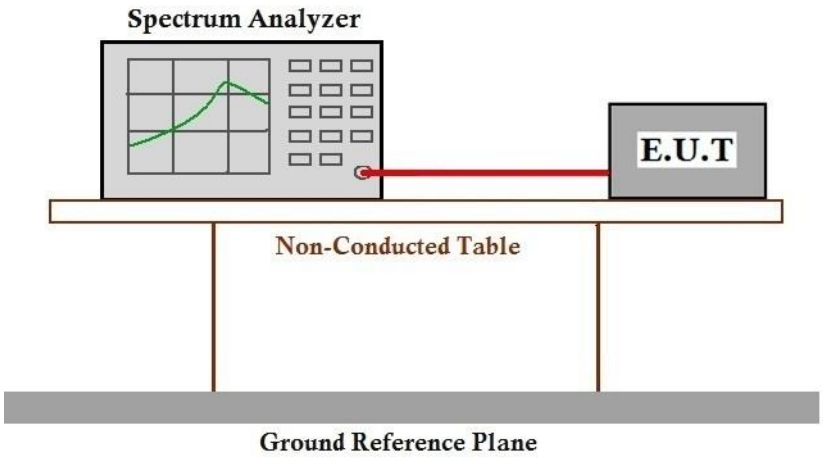
Operating Environment:

Temperature: 23.6 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	03	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



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7.11.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.

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8 Test Setup Photo

Please refer to setup photos.

9 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

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10 Appendix for 15.407

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	0.481	1.438	33.45	4.76
	5200	SISO	1	0.479	1.438	33.31	4.77
	5240	SISO	1	0.480	1.438	33.38	4.77
	5745	SISO	1	0.480	1.437	33.40	4.76
	5785	SISO	1	0.480	1.437	33.40	4.76
	5825	SISO	1	0.480	1.438	33.38	4.77
802.11n(HT20)	5180	MIMO	1	0.064	1.025	6.24	12.05
	5200	MIMO	1	0.065	1.026	6.34	11.98
	5240	MIMO	1	0.065	1.026	6.34	11.98
	5745	MIMO	1	0.064	1.025	6.24	12.05
	5785	MIMO	1	0.065	1.026	6.34	11.98
	5825	MIMO	1	0.064	1.025	6.24	12.05
802.11n(HT40)	5190	MIMO	1	0.183	1.116	16.40	7.85
	5230	MIMO	1	0.182	1.097	16.59	7.80
	5755	MIMO	1	0.183	1.098	16.67	7.78
	5795	MIMO	1	0.183	1.098	16.67	7.78
802.11ac(VHT20)	5180	MIMO	1	0.080	1.041	7.68	11.15
	5200	MIMO	1	0.081	1.042	7.77	11.10
	5240	MIMO	1	0.080	1.042	7.68	11.15
	5745	MIMO	1	0.078	1.011	7.72	11.12
	5785	MIMO	1	0.078	1.011	7.72	11.12
	5825	MIMO	1	0.080	1.041	7.68	11.15
802.11ac(VHT40)	5190	MIMO	1	0.186	1.101	16.89	7.72
	5230	MIMO	1	0.186	1.101	16.89	7.72
	5755	MIMO	1	0.186	1.101	16.89	7.72
	5795	MIMO	1	0.186	1.119	16.62	7.79
802.11ac(VHT80)	5210	MIMO	1	0.112	1.027	10.91	9.62
	5775	MIMO	1	0.112	1.027	10.91	9.62

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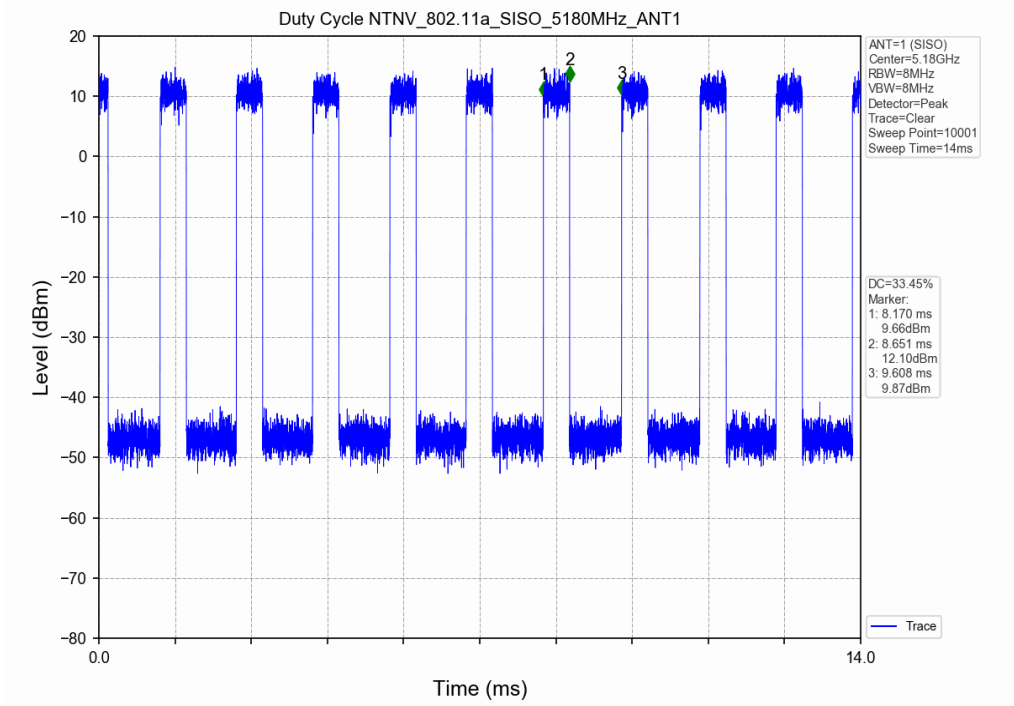
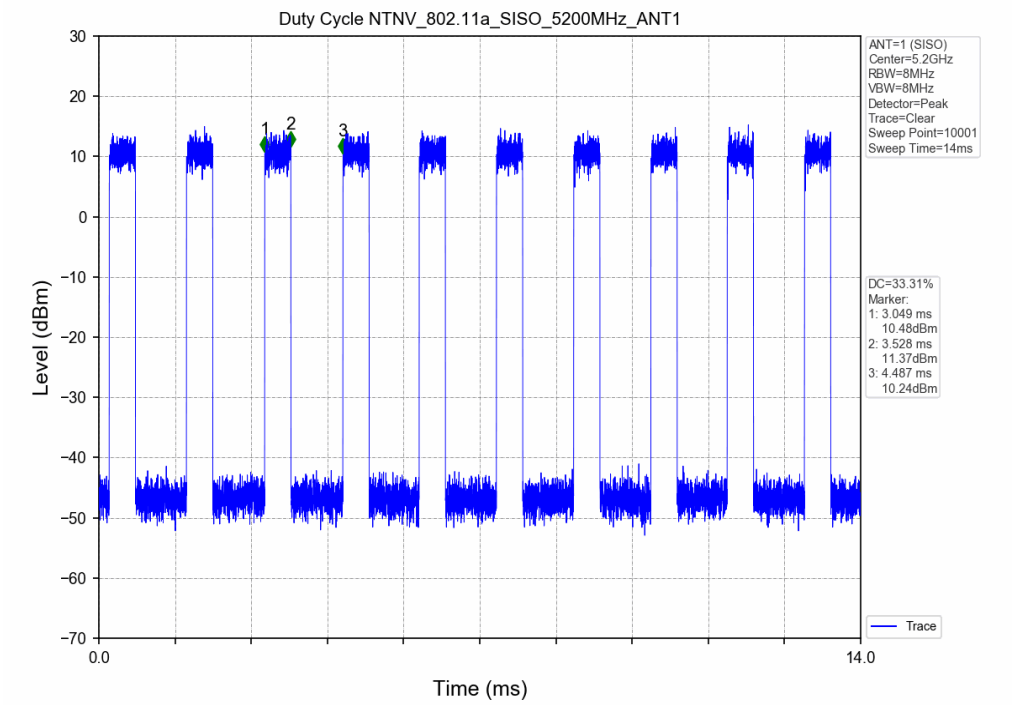
1.2 Test Graph





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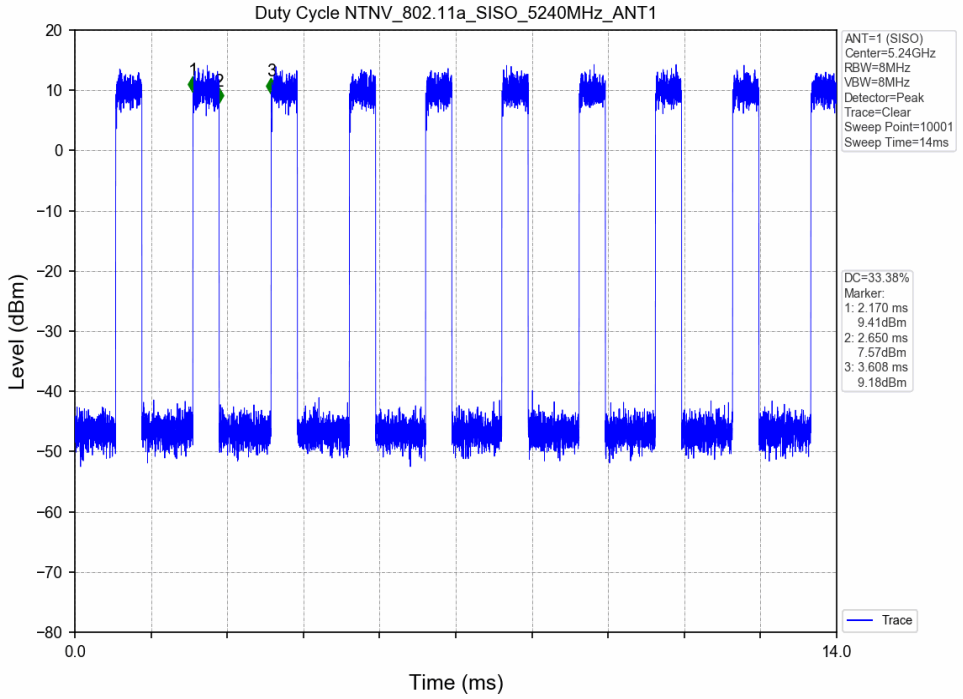

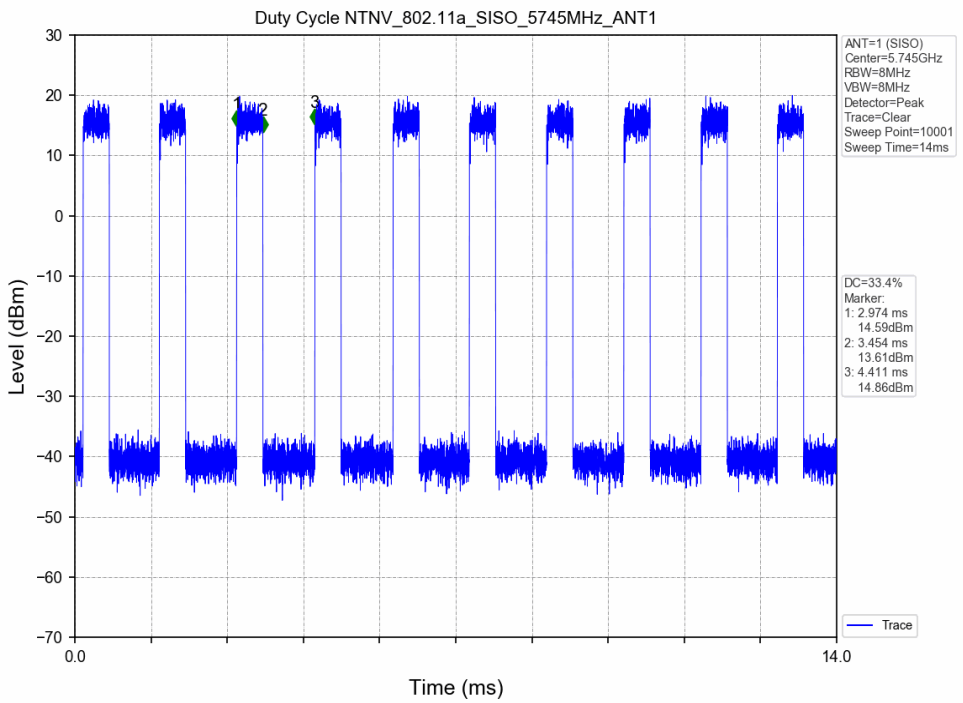

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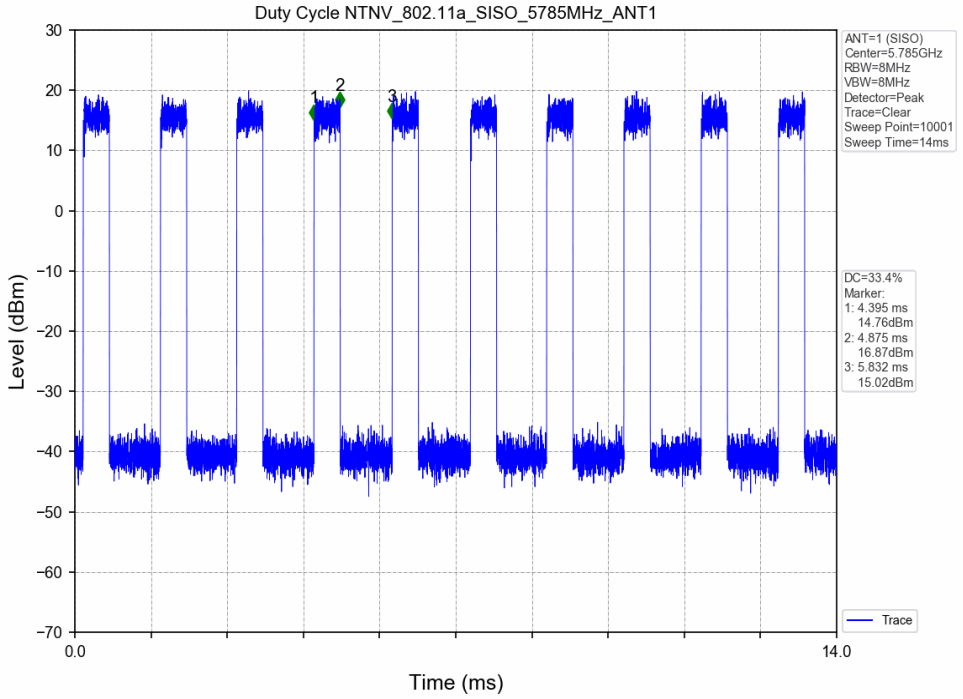

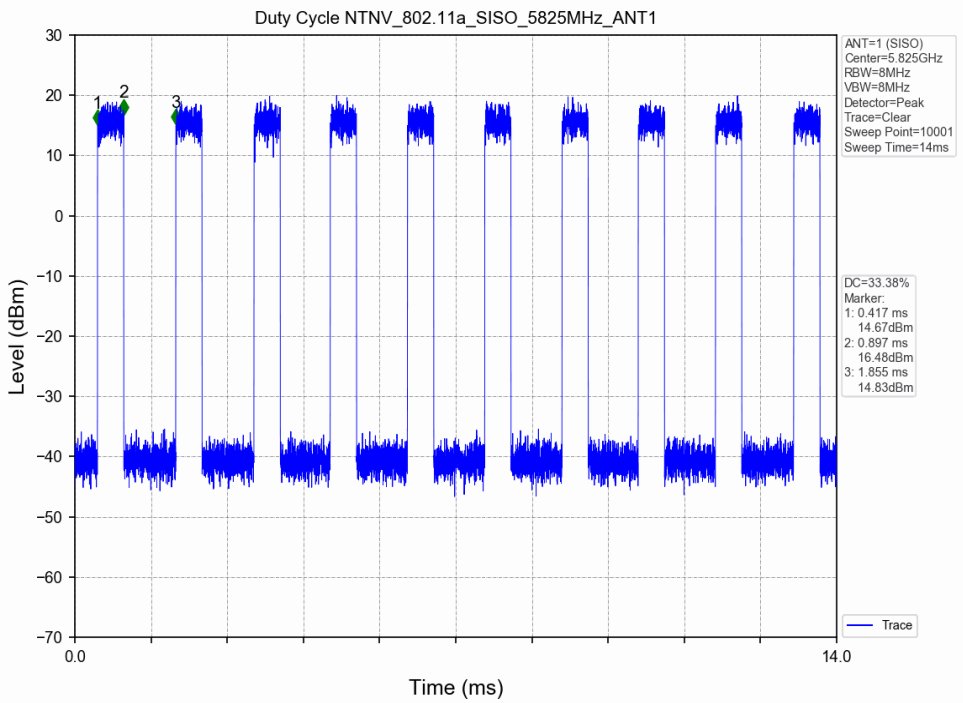

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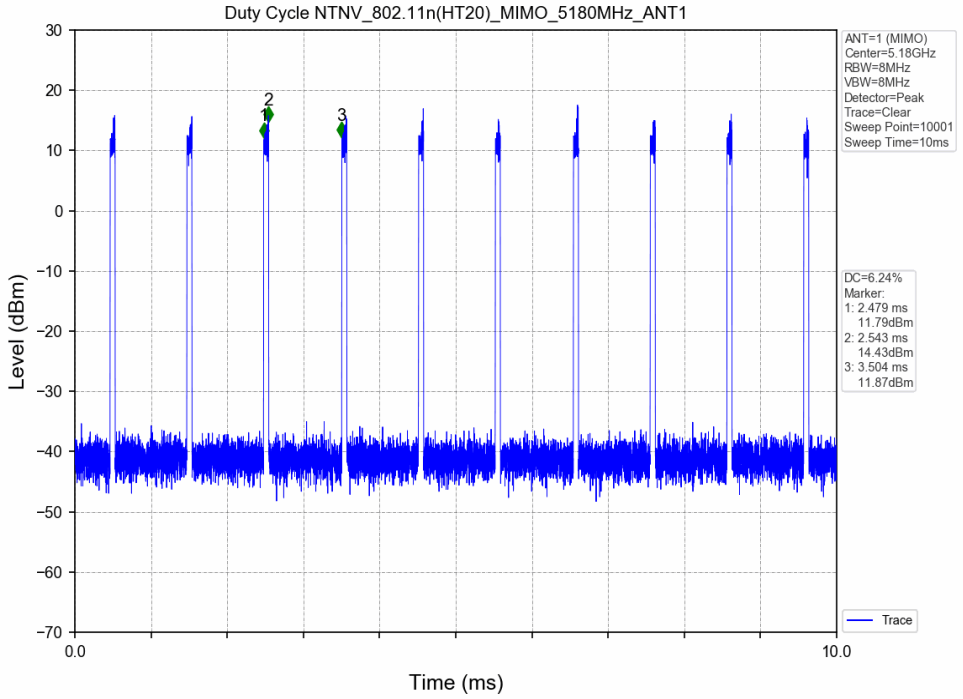

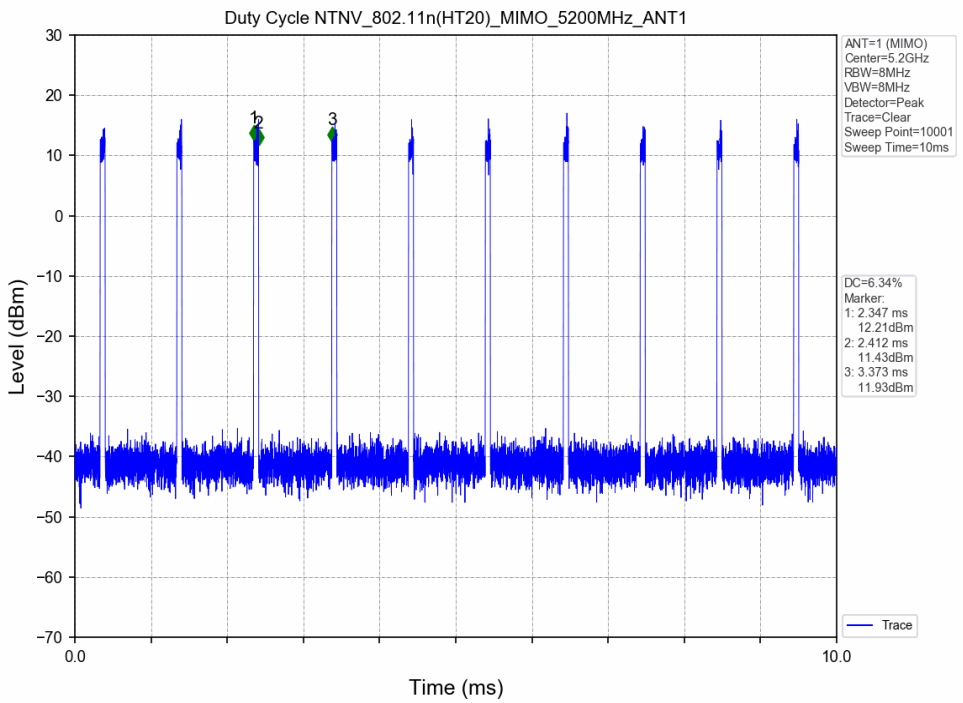

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