

TEST REPORT

Application No.:	SZCR2406002449AT
Applicant:	FIH CO., LTD.
Address of Applicant:	No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679 Taiwan
Manufacturer:	Futaijing Precision Electronics (Beijing)co., Ltd.
Address of Manufacturer:	No.9 JinXiu Street, Beijing Economic & Technological Development Area, Beijing 100176, China
Factory:	Futaijing Precision Electronics (Beijing)co., Ltd.
Address of Factory:	No.9 JinXiu Street, Beijing Economic & Technological Development Area, Beijing 100176, China
Equipment Under Test (EUT):	
EUT Name:	4G Module
Model No.:	31PHBM2000A
FCC ID:	RYQ31PHBM2000A
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2024-06-26
Date of Test:	2024-07-07 to 2024-07-10
Date of Issue:	2024-07-15

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



Keny Xu
EMC Laboratory Manager



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Shenzhen Branch Testing & EEC Laboratory.

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600244903

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-07-15		Original

Authorized for issue by:			
		Calvin Weng	
		Calvin Weng/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass

Remark: This report is based on a module test report SZCR240400147803, to install into a host and change the antenna, therefore, only conducted emission and radiated spurious emissions were re-tested on this report.

This report is prepared for FCC class II permissive change. The modular have been approved by FCC, FCC ID:RYQ31PHBM2000A, granted on 07/30/2024.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC12V
Operation Frequency/Number of channels (20MHz):	5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	5210MHz (1 Channel); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	Monopole antenna
Antenna Gain:	U-NII band1: -2.2dBi, U-NII band3: 0.47dBi
Host name:	RTBM
Host Model Number:	RTBM-EANAGEN

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Control board	Provided by Manufacture	--	--
Antenna box for LTE & GNSS	Provided by Manufacture	--	--
Speaker and Microphone	Provided by Manufacture	--	--
Main cable	Provided by Manufacture	--	--
Ethernet AMTD Cable	Provided by Manufacture	--	--
BUB cable	Provided by Manufacture	--	--
BUB(Backup Battery)	Provided by Manufacture	--	--

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz); ± 4.8dB (18-40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);



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4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

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

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

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

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

- **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is U-NII band1: -0.22dBi, U-NII band3: 0.47dBi.

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 E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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7 Radio Spectrum Matter Test Results

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

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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 46.9 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	02	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

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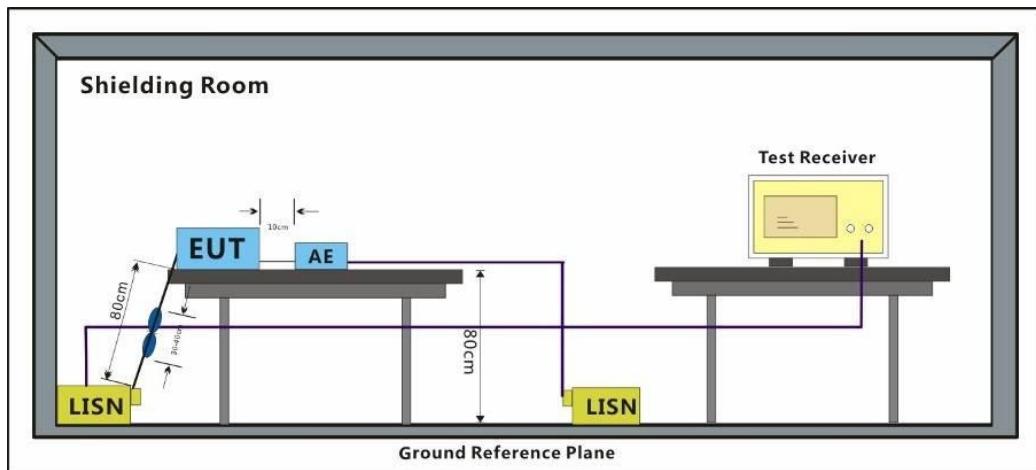
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7.1.3 Test Setup Diagram



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

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



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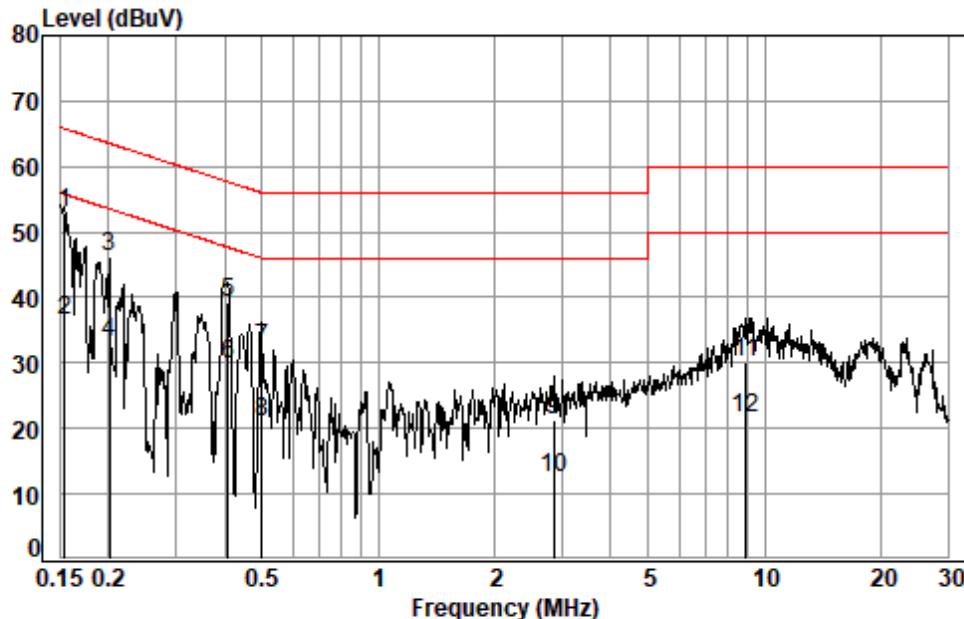
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Test Mode: 01; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 02449AT

Test mode: 01

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dB	
1 *	0.1540	0.02	9.49	43.48	52.99	65.78	-12.79 QP
2	0.1540	0.02	9.49	27.01	36.52	55.78	-19.26 Average
3	0.2018	0.02	9.47	36.68	46.17	63.54	-17.37 QP
4	0.2018	0.02	9.47	23.71	33.20	53.54	-20.34 Average
5	0.4083	0.03	9.60	29.75	39.38	57.68	-18.30 QP
6 *	0.4083	0.03	9.60	20.30	29.93	47.68	-17.75 Average
7	0.4994	0.04	9.69	22.39	32.12	56.01	-23.89 QP
8	0.4994	0.04	9.69	11.31	21.04	46.01	-24.97 Average
9	2.8390	0.07	9.48	11.78	21.33	56.00	-34.67 QP
10	2.8390	0.07	9.48	2.93	12.48	46.00	-33.52 Average
11	8.9637	0.15	9.89	20.19	30.23	60.00	-29.77 QP
12	8.9637	0.15	9.89	11.54	21.58	50.00	-28.42 Average

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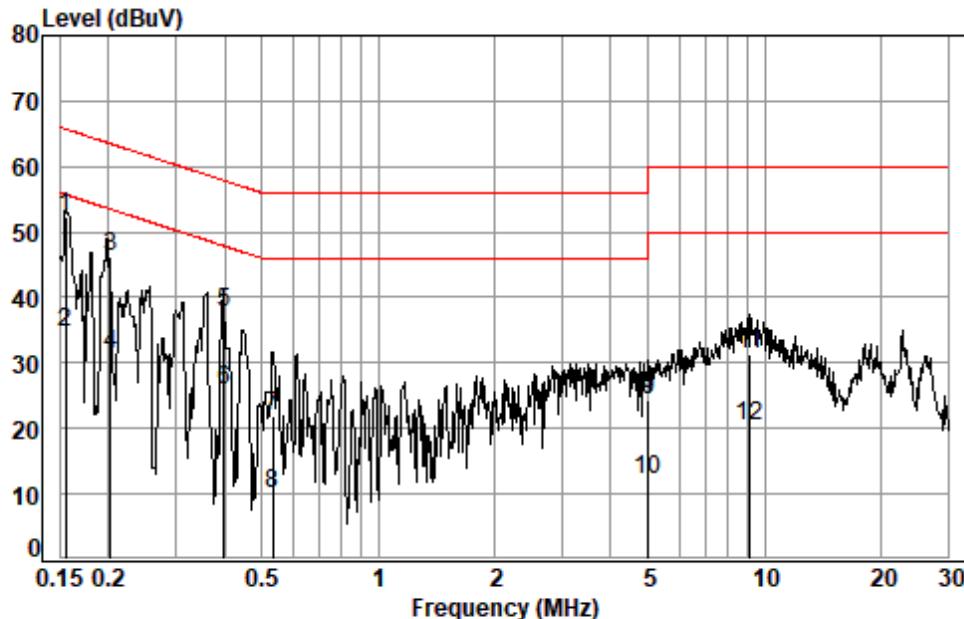
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Test Mode: 01; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 02449AT

Test mode: 01

1	2	3	4	5	6	7	8	9	10	11	12	Cable	LISN	Read	Limit	Over		
												Freq	Loss	Factor	Level	Level	Line	Remark
												MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1548	0.02	9.63	42.69	52.34	65.74	-13.40	QP										
2 *	0.1548	0.02	9.63	25.08	34.73	55.74	-21.01	Average										
3	0.2029	0.02	9.66	36.51	46.19	63.49	-17.30	QP										
4	0.2029	0.02	9.66	21.78	31.46	53.49	-22.03	Average										
5	0.3976	0.03	9.73	28.08	37.84	57.90	-20.06	QP										
6	0.3976	0.03	9.73	16.25	26.01	47.90	-21.89	Average										
7	0.5322	0.04	9.85	11.95	21.84	56.00	-34.16	QP										
8	0.5322	0.04	9.85	0.07	9.96	46.00	-36.04	Average										
9	5.0046	0.09	9.74	14.43	24.26	60.00	-35.74	QP										
10	5.0046	0.09	9.74	2.27	12.10	50.00	-37.90	Average										
11	9.1557	0.16	10.07	21.01	31.24	60.00	-28.76	QP										
12	9.1557	0.16	10.07	10.04	20.27	50.00	-29.73	Average										

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7.2 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

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

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	02	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

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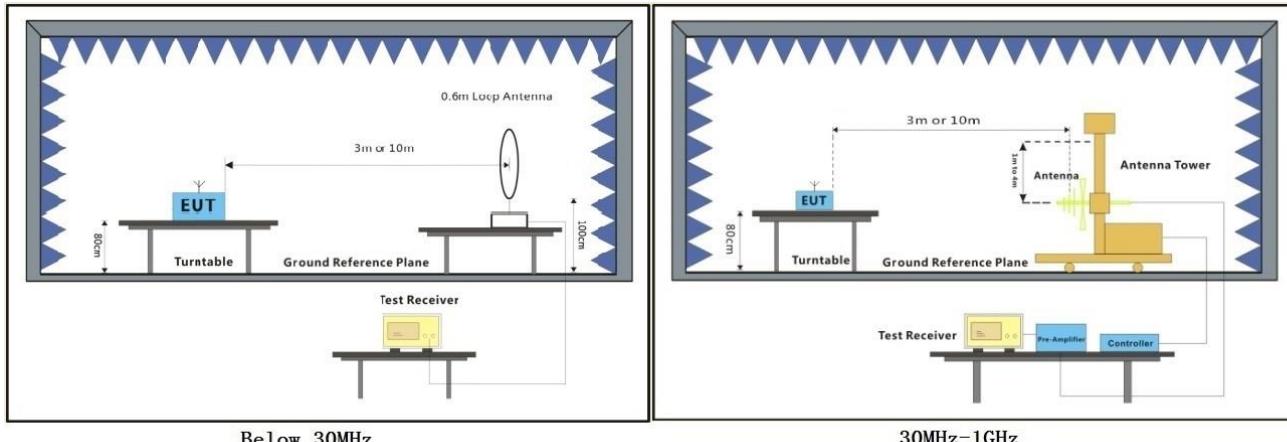
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7.2.3 Test Setup Diagram



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7.2.4 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.



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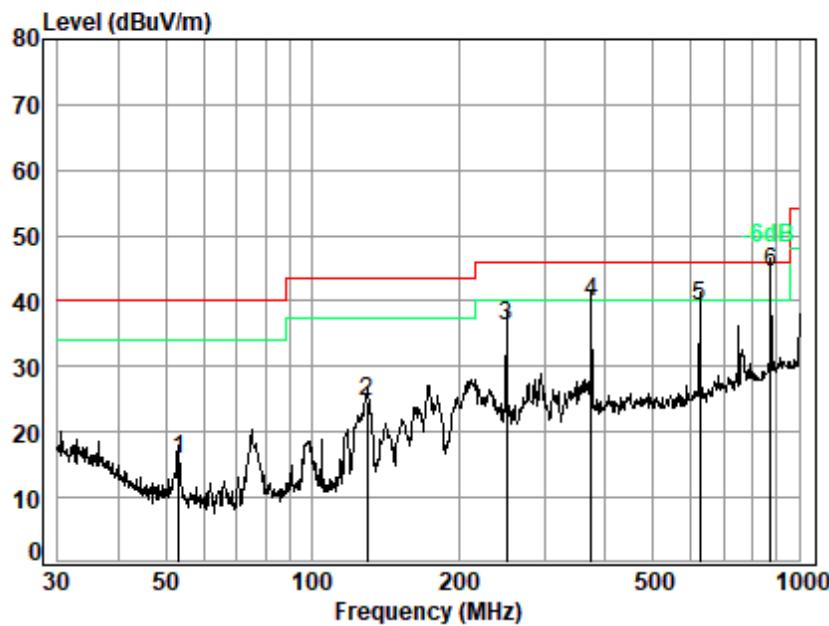
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Test Mode: 01; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 02449AT
 Test Mode: 01

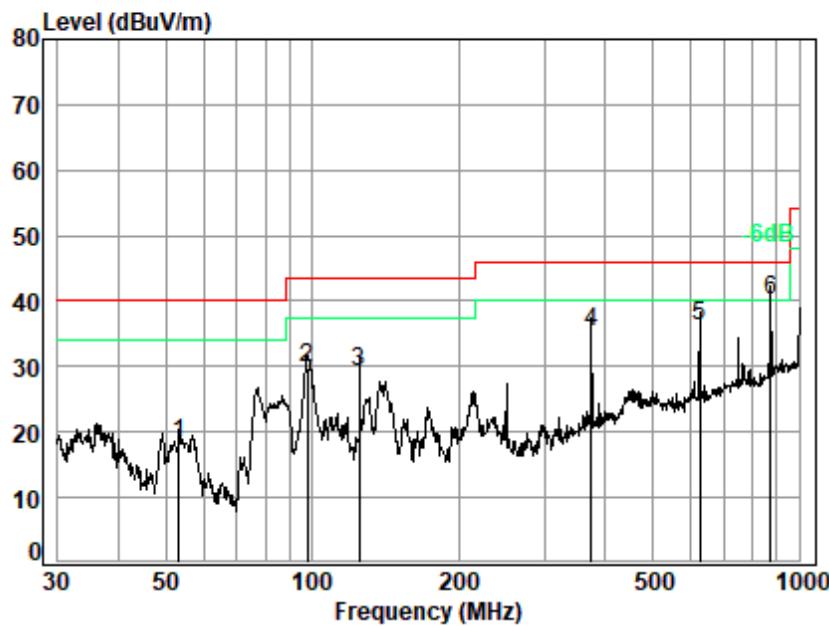
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	53.13	12.27	0.86	27.73	30.46	15.86	40.00	-24.14 QP
2	129.92	11.02	1.35	27.46	39.81	24.72	43.50	-18.78 QP
3	250.30	17.24	1.95	26.96	43.96	36.19	46.00	-9.81 QP
4	374.62	20.68	2.45	27.05	43.62	39.70	46.00	-6.30 QP
5	625.08	25.06	3.29	27.91	38.87	39.31	46.00	-6.69 QP
6 q	875.25	27.67	4.03	26.94	39.63	44.39	46.00	-1.61 QP

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Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 02449AT
Test Mode: 01

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB/m
1	53.13	12.27	0.86	27.73	32.86	18.26	40.00	-21.74	QP
2	97.80	12.20	1.18	27.60	43.90	29.68	43.50	-13.82	QP
3	125.01	10.98	1.33	27.48	44.47	29.30	43.50	-14.20	QP
4	374.62	20.68	2.45	27.05	39.33	35.41	46.00	-10.59	QP
5	625.08	25.06	3.29	27.91	35.89	36.33	46.00	-9.67	QP
6 q	875.25	27.67	4.03	26.94	35.39	40.15	46.00	-5.85	QP

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7.3 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3

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

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

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 55.8 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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

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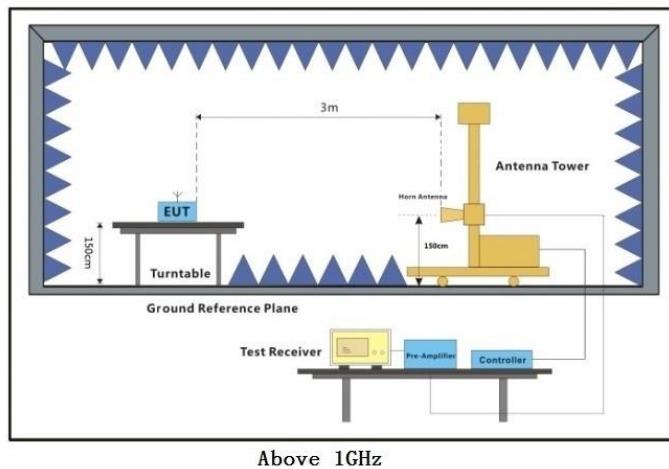
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		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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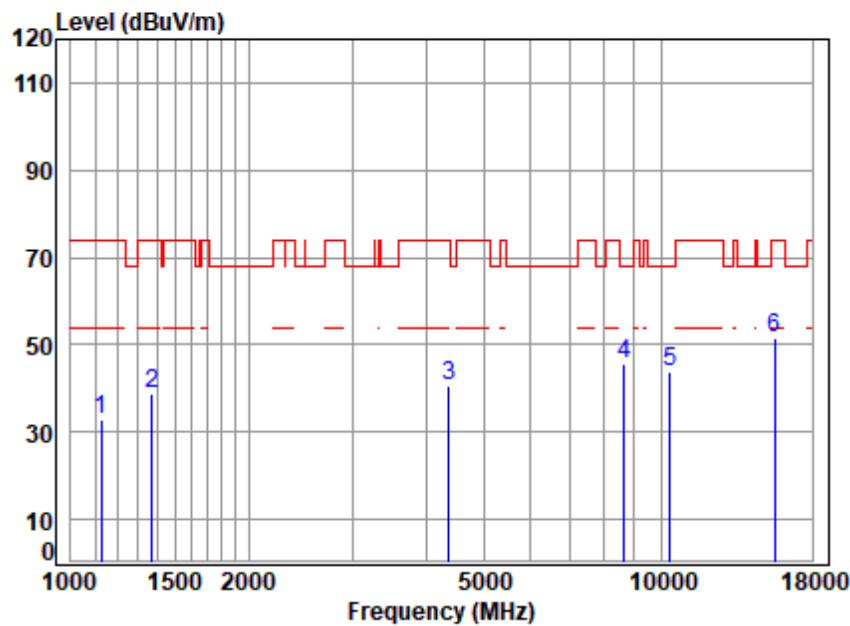
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

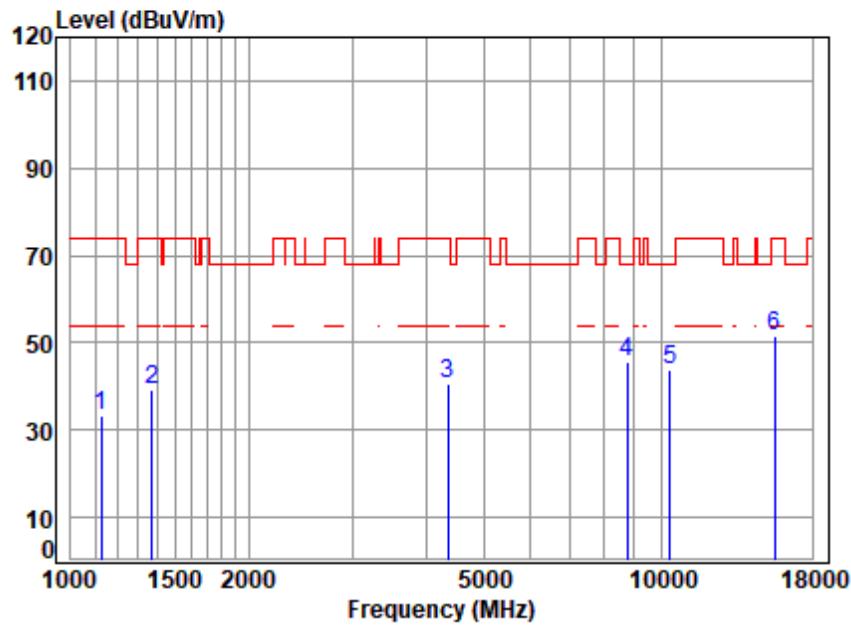
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	44.97	32.96	74.00	-41.04 peak
2	1374.295	2.83	24.55	38.37	49.77	38.78	74.00	-35.22 peak
3	4367.058	5.05	34.54	35.82	36.98	40.75	74.00	-33.25 peak
4	8663.404	7.10	36.90	37.27	38.87	45.60	68.20	-22.60 peak
5	10360.000	7.72	37.10	37.54	36.55	43.83	68.20	-24.37 peak
6	p15540.000	9.30	41.10	37.23	38.60	51.77	74.00	-22.23 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.28	33.27	74.00	-40.73 peak
2	1374.295	2.83	24.55	38.37	50.04	39.05	74.00	-34.95 peak
3	4354.454	5.04	34.44	35.83	37.15	40.80	74.00	-33.20 peak
4	8738.852	7.14	36.90	37.35	38.81	45.50	68.20	-22.70 peak
5	10360.000	7.72	37.10	37.54	36.72	44.00	68.20	-24.20 peak
6	p15540.000	9.30	41.10	37.23	38.22	51.39	74.00	-22.61 peak

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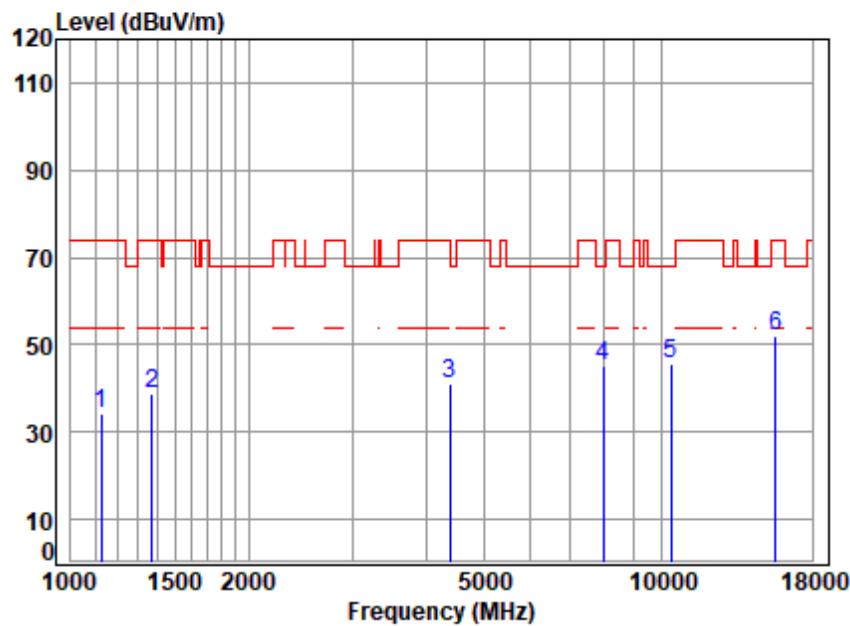
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	46.40	34.39	74.00	-39.61 peak
2	1374.295	2.83	24.55	38.37	49.84	38.85	74.00	-35.15 peak
3	4392.376	5.08	34.74	35.80	36.95	40.97	74.00	-33.03 peak
4	7989.893	6.51	36.40	36.55	38.68	45.04	68.20	-23.16 peak
5	10400.000	7.75	37.10	37.56	38.13	45.42	68.20	-22.78 peak
6	p15600.000	9.33	41.10	37.26	38.62	51.79	74.00	-22.21 peak

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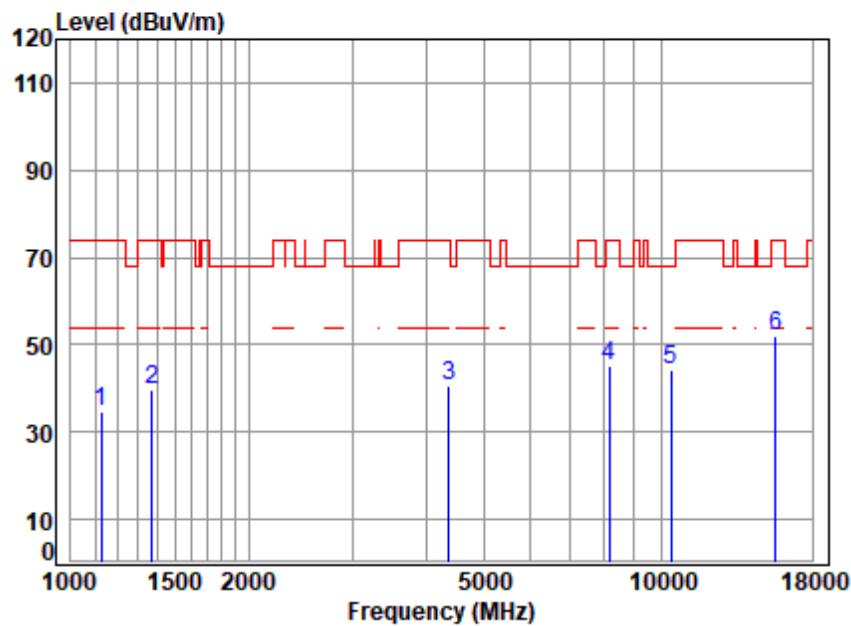
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	46.55	34.54	74.00	-39.46 peak
2	1374.295	2.83	24.55	38.37	50.57	39.58	74.00	-34.42 peak
3	4367.058	5.05	34.54	35.82	36.85	40.62	74.00	-33.38 peak
4	8153.195	6.68	36.51	36.73	38.61	45.07	74.00	-28.93 peak
5	10400.000	7.75	37.10	37.56	37.10	44.39	68.20	-23.81 peak
6	p15600.000	9.33	41.10	37.26	38.90	52.07	74.00	-21.93 peak

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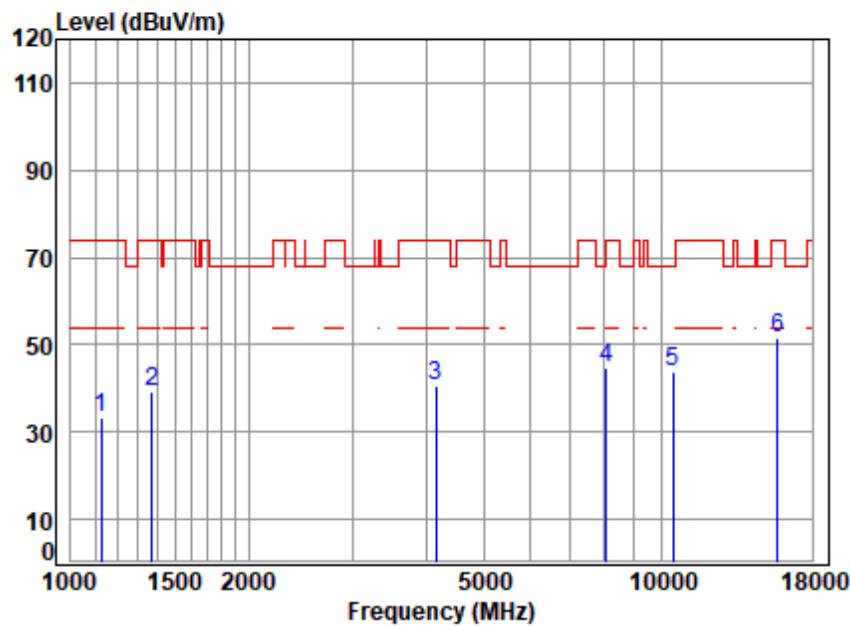
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.33	33.32	74.00	-40.68 peak
2	1374.295	2.83	24.55	38.37	50.42	39.43	74.00	-34.57 peak
3	4145.664	4.82	33.73	35.99	38.11	40.67	74.00	-33.33 peak
4	8059.475	6.58	36.42	36.63	38.35	44.72	74.00	-29.28 peak
5	10480.000	7.81	37.26	37.60	36.55	44.02	68.20	-24.18 peak
6	p15720.000	9.40	41.22	37.31	38.42	51.73	74.00	-22.27 peak

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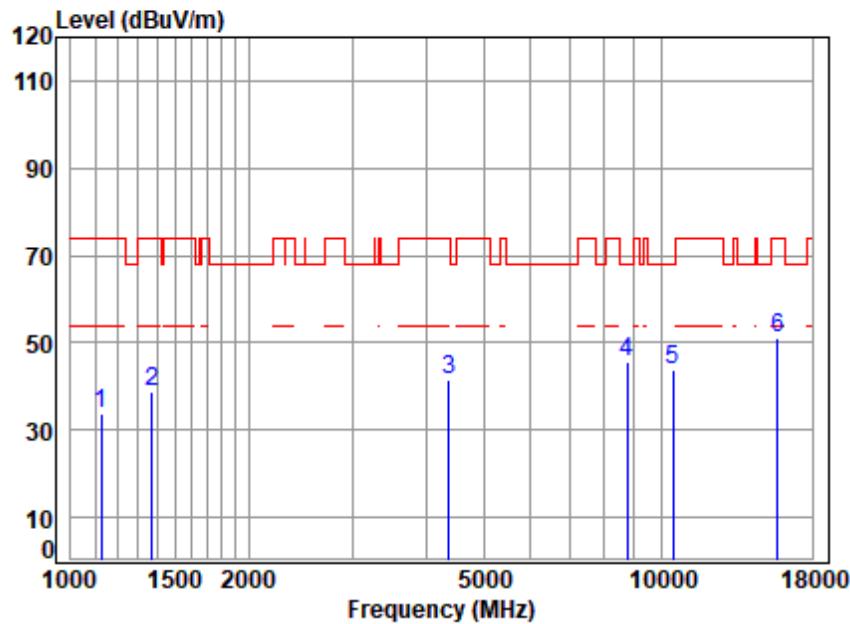
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.55	33.54	74.00	-40.46 peak
2	1374.295	2.83	24.55	38.37	49.87	38.88	74.00	-35.12 peak
3	4367.058	5.05	34.54	35.82	37.53	41.30	74.00	-32.70 peak
4 p	8764.146	7.15	36.96	37.37	39.07	45.81	68.20	-22.39 peak
5	10480.000	7.81	37.26	37.60	36.36	43.83	68.20	-24.37 peak
6	15720.000	9.40	41.22	37.31	37.69	51.00	74.00	-23.00 peak

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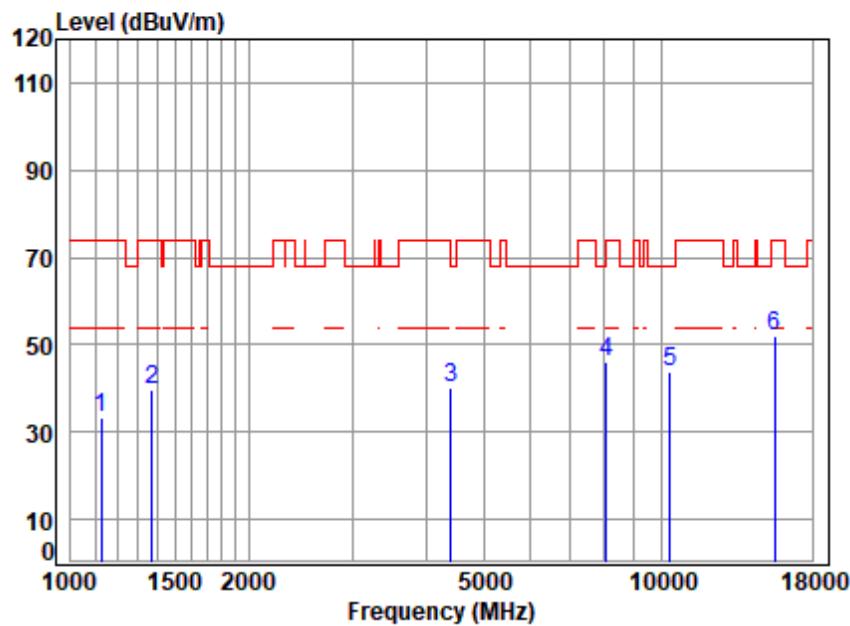
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.39	33.38	74.00	-40.62 peak
2	1374.295	2.83	24.55	38.37	50.62	39.63	74.00	-34.37 peak
3	4405.090	5.09	34.74	35.79	35.98	40.02	68.20	-28.18 peak
4	8082.804	6.60	36.47	36.65	39.66	46.08	74.00	-27.92 peak
5	10360.000	7.72	37.10	37.54	36.38	43.66	68.20	-24.54 peak
6	p15540.000	9.30	41.10	37.23	38.74	51.91	74.00	-22.09 peak

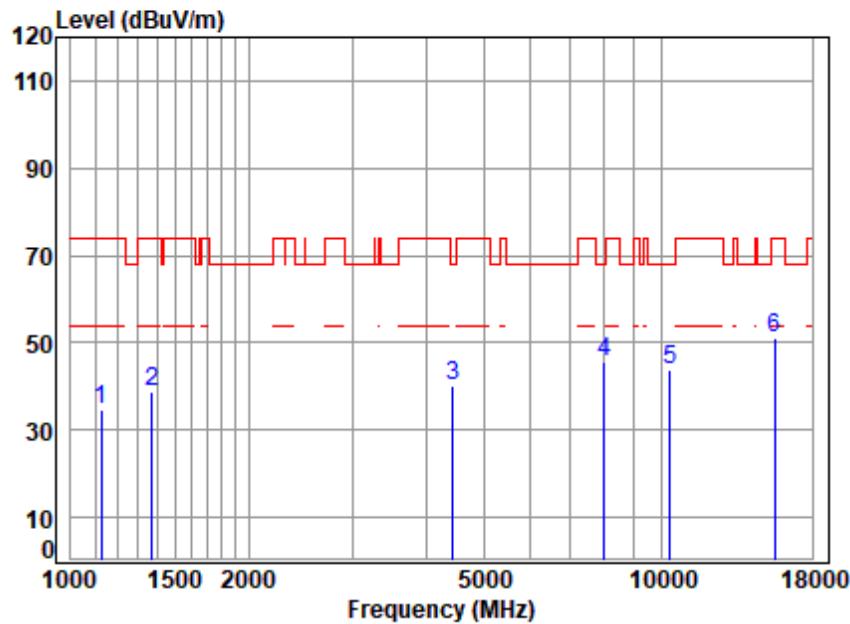
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	46.56	34.55	74.00	-39.45 peak
2	1374.295	2.83	24.55	38.37	49.61	38.62	74.00	-35.38 peak
3	4430.628	5.11	34.43	35.77	36.61	40.38	68.20	-27.82 peak
4 p	8013.020	6.53	36.40	36.57	39.27	45.63	68.20	-22.57 peak
5	10360.000	7.72	37.10	37.54	36.39	43.67	68.20	-24.53 peak
6	15540.000	9.30	41.10	37.23	37.85	51.02	74.00	-22.98 peak

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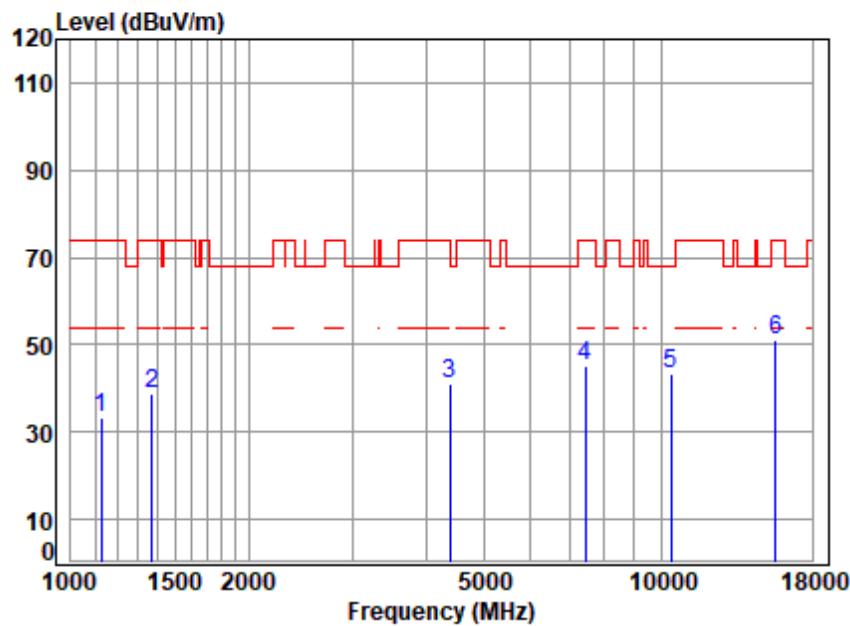
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.44	33.43	74.00	-40.57 peak
2	1374.295	2.83	24.55	38.37	49.72	38.73	74.00	-35.27 peak
3	4379.699	5.06	34.64	35.81	37.11	41.00	74.00	-33.00 peak
4	7432.914	6.01	35.93	36.01	39.38	45.31	74.00	-28.69 peak
5	10400.000	7.75	37.10	37.56	36.14	43.43	68.20	-24.77 peak
6	p15600.000	9.33	41.10	37.26	38.13	51.30	74.00	-22.70 peak

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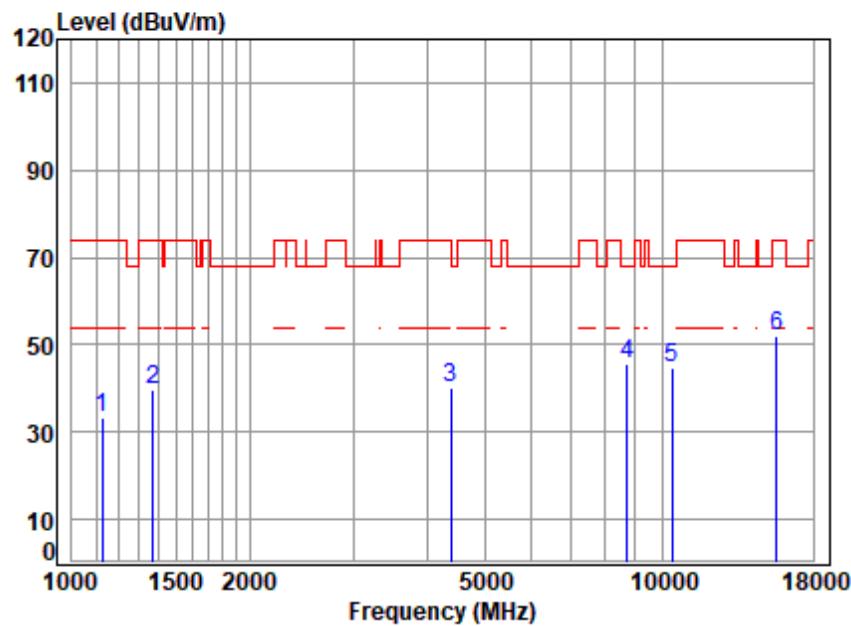
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11AC20

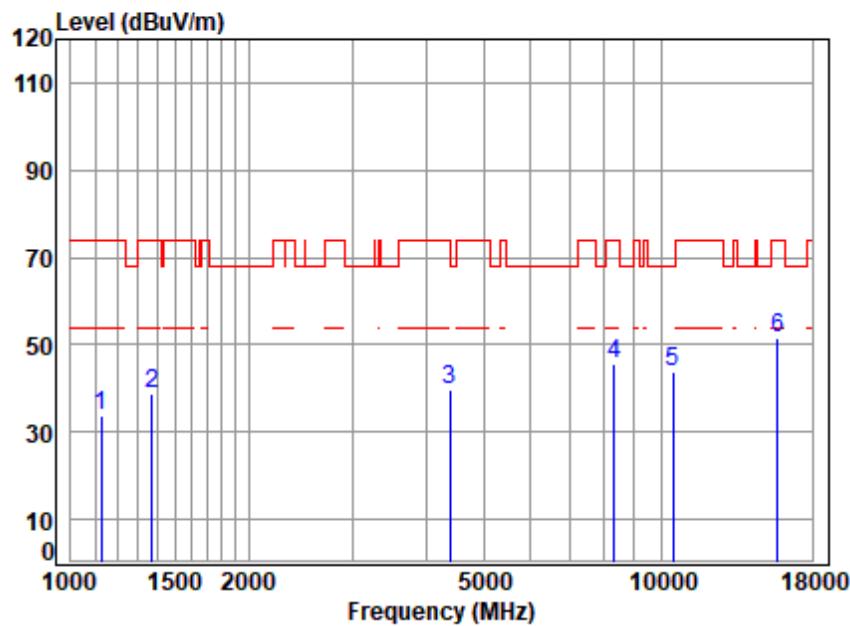
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.30	33.29	74.00	-40.71 peak
2	1374.295	2.83	24.55	38.37	50.57	39.58	74.00	-34.42 peak
3	4392.376	5.08	34.74	35.80	35.93	39.95	74.00	-34.05 peak
4	8713.630	7.13	36.90	37.32	38.86	45.57	68.20	-22.63 peak
5	10400.000	7.75	37.10	37.56	37.27	44.56	68.20	-23.64 peak
6	p15600.000	9.33	41.10	37.26	39.04	52.21	74.00	-21.79 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5240 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.59	33.58	74.00	-40.42 peak
2	1374.295	2.83	24.55	38.37	49.95	38.96	74.00	-35.04 peak
3	4392.376	5.08	34.74	35.80	35.88	39.90	74.00	-34.10 peak
4	8319.836	6.84	36.70	36.91	38.80	45.43	74.00	-28.57 peak
5	10480.000	7.81	37.26	37.60	36.41	43.88	68.20	-24.32 peak
6	p15720.000	9.40	41.22	37.31	38.38	51.69	74.00	-22.31 peak

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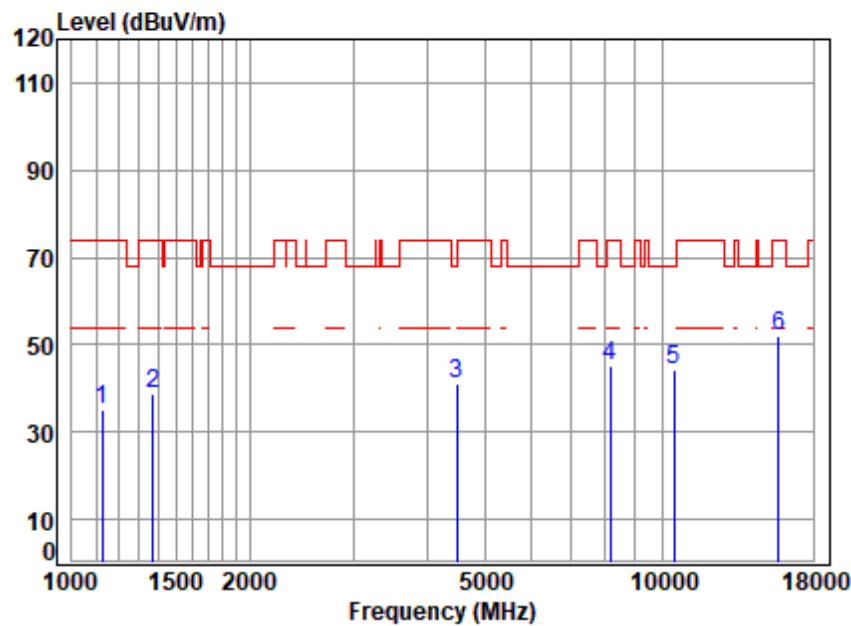
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	1125.813	2.52	23.80	38.33	47.05	35.04	74.00	-38.96 peak
2	1374.295	2.83	24.55	38.37	49.92	38.93	74.00	-35.07 peak
3	4495.125	5.18	33.66	35.73	38.00	41.11	68.20	-27.09 peak
4	8176.795	6.70	36.55	36.75	38.45	44.95	74.00	-29.05 peak
5	10480.000	7.81	37.26	37.60	36.74	44.21	68.20	-23.99 peak
6	p15720.000	9.40	41.22	37.31	38.48	51.79	74.00	-22.21 peak

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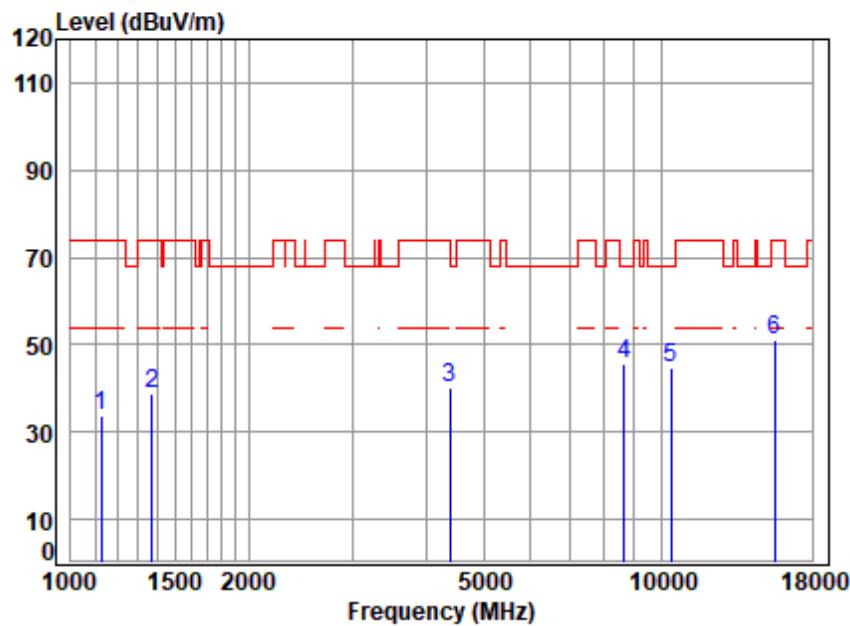
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

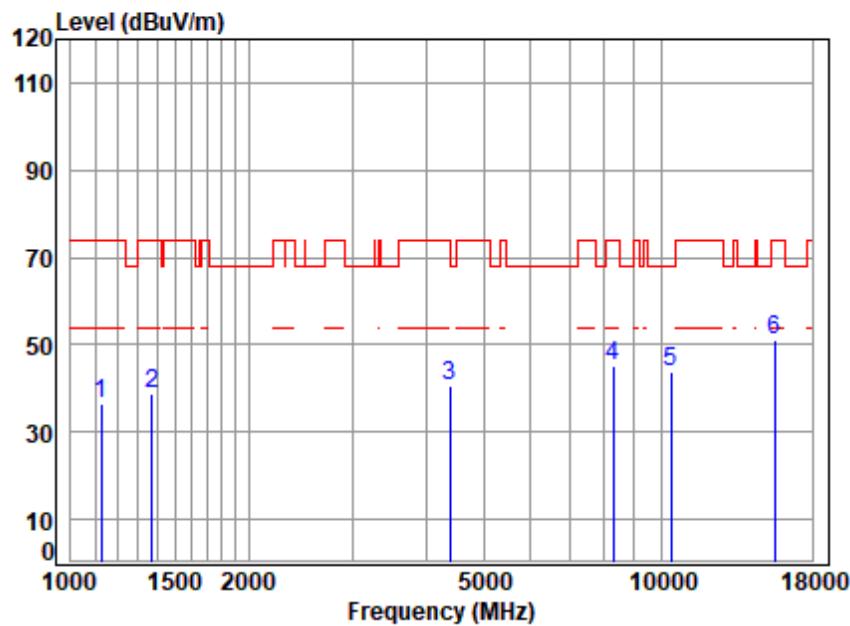
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.94	33.93	74.00	-40.07 peak
2	1374.295	2.83	24.55	38.37	49.84	38.85	74.00	-35.15 peak
3	4379.699	5.06	34.64	35.81	36.31	40.20	74.00	-33.80 peak
4 p	8663.404	7.10	36.90	37.27	38.99	45.72	68.20	-22.48 peak
5	10380.000	7.73	37.10	37.55	37.61	44.89	68.20	-23.31 peak
6	15570.000	9.32	41.10	37.25	38.04	51.21	74.00	-22.79 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5190 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	48.31	36.30	74.00	-37.70 peak
2	1374.295	2.83	24.55	38.37	49.68	38.69	74.00	-35.31 peak
3	4392.376	5.08	34.74	35.80	36.73	40.75	74.00	-33.25 peak
4	8295.823	6.82	36.70	36.88	38.54	45.18	74.00	-28.82 peak
5	10380.000	7.73	37.10	37.55	36.59	43.87	68.20	-24.33 peak
6	p15570.000	9.32	41.10	37.25	37.91	51.08	74.00	-22.92 peak

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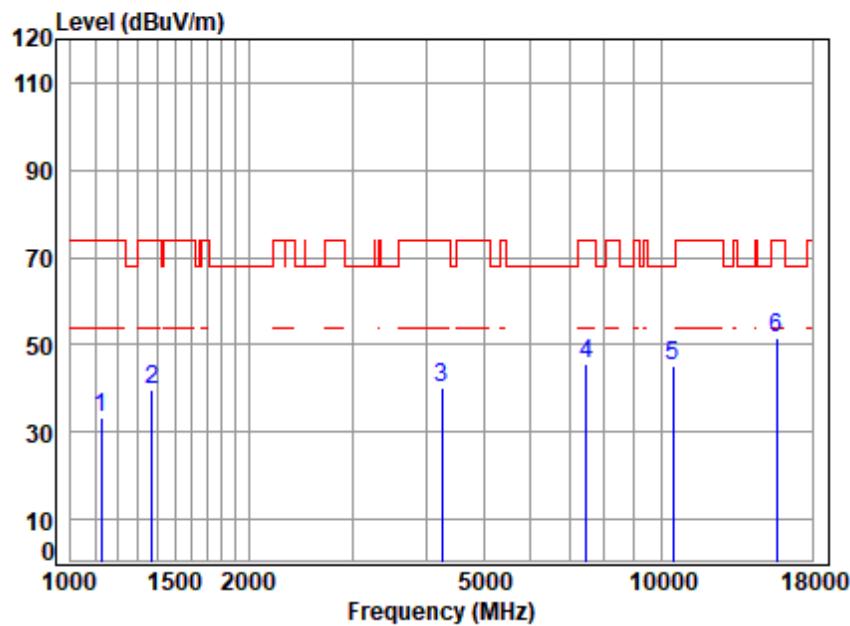
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 1125.813	2.52	23.80	38.33	45.39	33.38	74.00	-40.62	peak
2 1374.295	2.83	24.55	38.37	50.47	39.48	74.00	-34.52	peak
3 4242.641	4.93	33.80	35.91	37.13	39.95	74.00	-34.05	peak
4 7454.429	6.01	36.01	36.04	39.70	45.68	74.00	-28.32	peak
5 10460.000	7.80	37.22	37.59	37.62	45.05	68.20	-23.15	peak
6 p15690.000	9.38	41.19	37.30	38.51	51.78	74.00	-22.22	peak

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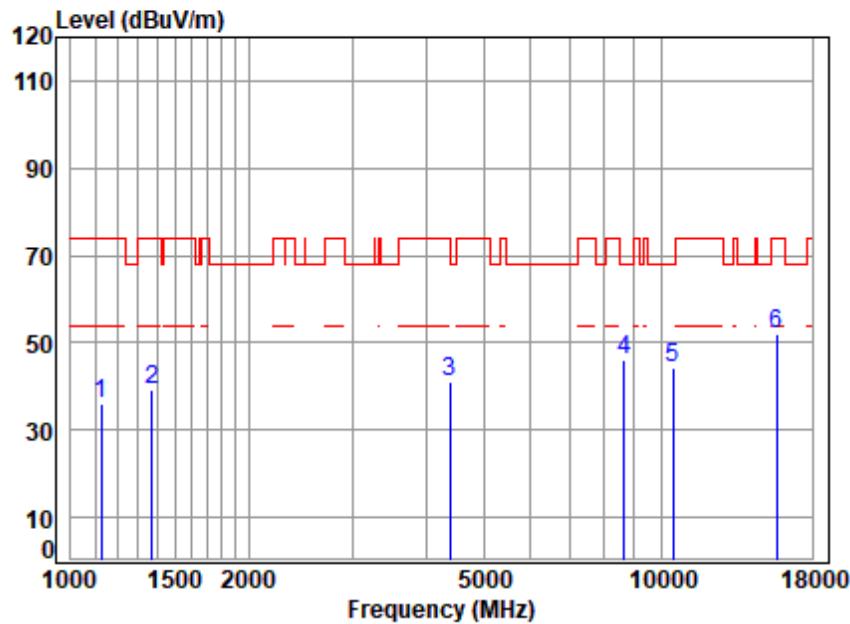
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5230 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	48.21	36.20	74.00	-37.80 peak
2	1374.295	2.83	24.55	38.37	50.15	39.16	74.00	-34.84 peak
3	4379.699	5.06	34.64	35.81	37.04	40.93	74.00	-33.07 peak
4 p	8663.404	7.10	36.90	37.27	39.36	46.09	68.20	-22.11 peak
5	10460.000	7.80	37.22	37.59	37.03	44.46	68.20	-23.74 peak
6	15690.000	9.38	41.19	37.30	38.62	51.89	74.00	-22.11 peak

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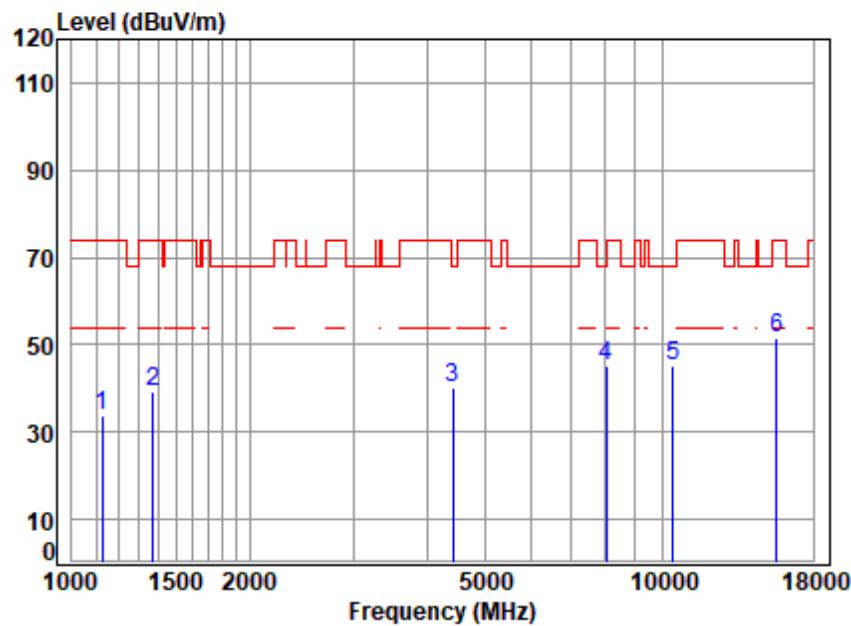
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1125.813	2.52	23.80	38.33	45.68	33.67	74.00	-40.33 peak
2 1374.295	2.83	24.55	38.37	50.06	39.07	74.00	-34.93 peak
3 4417.841	5.10	34.59	35.78	36.07	39.98	68.20	-28.22 peak
4 8036.214	6.56	36.40	36.60	38.84	45.20	74.00	-28.80 peak
5 10420.000	7.77	37.14	37.57	37.92	45.26	68.20	-22.94 peak
6 p15630.000	9.35	41.13	37.27	38.36	51.57	74.00	-22.43 peak

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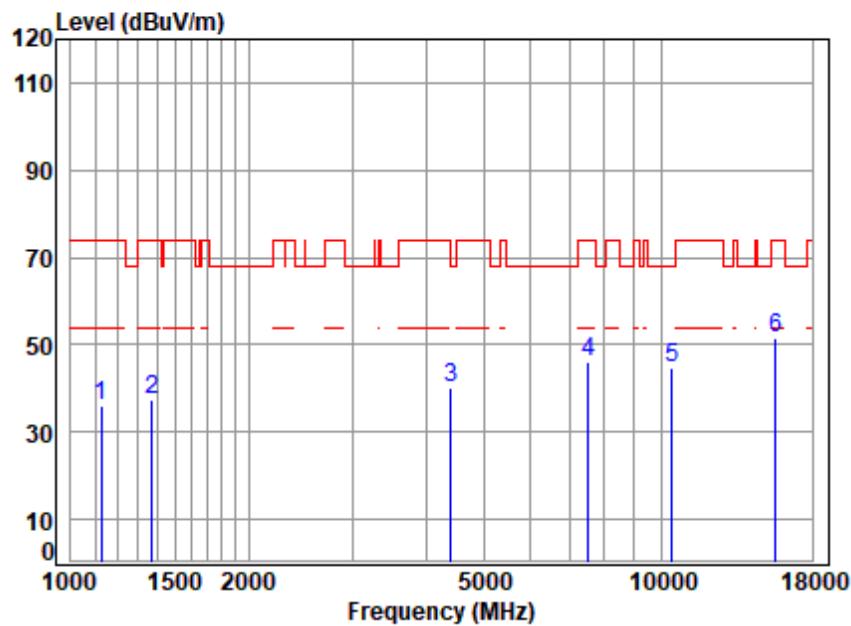
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5210 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	48.17	36.16	74.00	-37.84 peak
2	1374.295	2.83	24.55	38.37	48.39	37.40	74.00	-36.60 peak
3	4405.090	5.09	34.74	35.79	36.32	40.36	68.20	-27.84 peak
4	7519.349	6.03	36.10	36.10	39.86	45.89	74.00	-28.11 peak
5	10420.000	7.77	37.14	37.57	37.43	44.77	68.20	-23.43 peak
6	p15630.000	9.35	41.13	37.27	38.16	51.37	74.00	-22.63 peak

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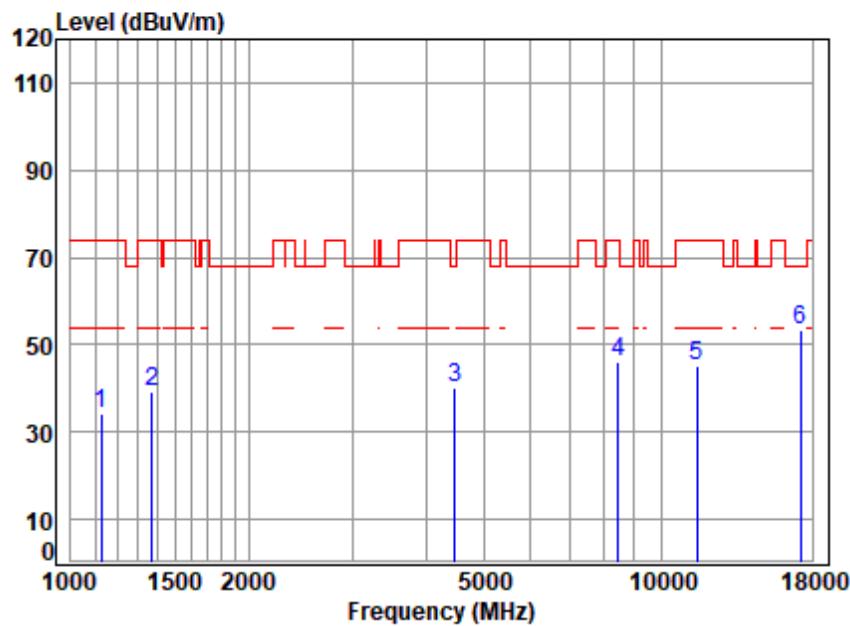
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5745 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	1125.813	2.52	23.80	38.33	46.32	34.31	74.00	-39.69 peak
2	1374.295	2.83	24.55	38.37	50.23	39.24	74.00	-34.76 peak
3	4469.214	5.15	33.97	35.75	36.69	40.06	68.20	-28.14 peak
4	8440.945	6.96	36.62	37.04	39.39	45.93	74.00	-28.07 peak
5	11490.000	8.19	37.79	37.69	36.99	45.28	74.00	-28.72 peak
6	p17235.000	10.22	43.03	37.55	37.46	53.16	68.20	-15.04 peak

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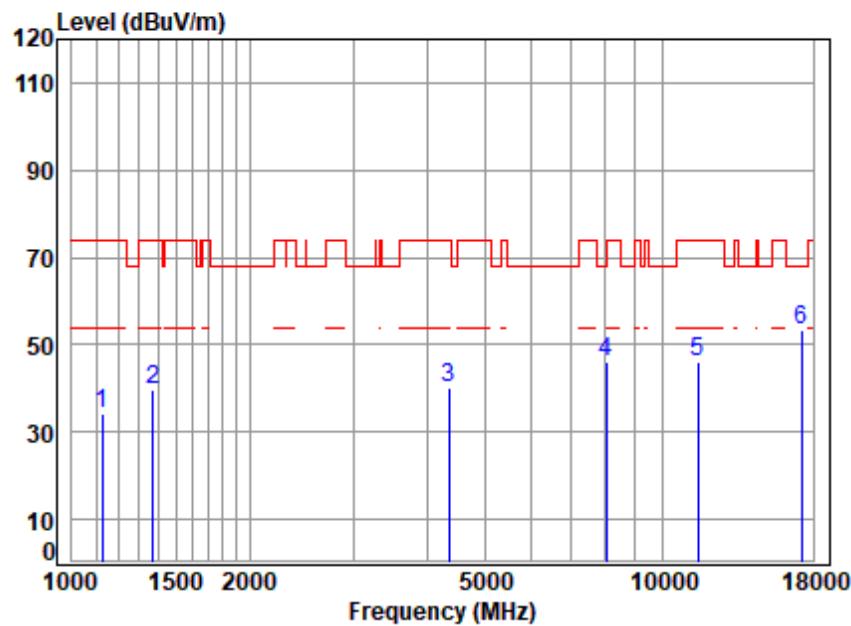
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	46.06	34.05	74.00	-39.95 peak
2	1374.295	2.83	24.55	38.37	50.56	39.57	74.00	-34.43 peak
3	4354.454	5.04	34.44	35.83	36.66	40.31	74.00	-33.69 peak
4	8036.214	6.56	36.40	36.60	39.73	46.09	74.00	-27.91 peak
5	11490.000	8.19	37.79	37.69	37.75	46.04	74.00	-27.96 peak
6	p17235.000	10.22	43.03	37.55	37.88	53.58	68.20	-14.62 peak

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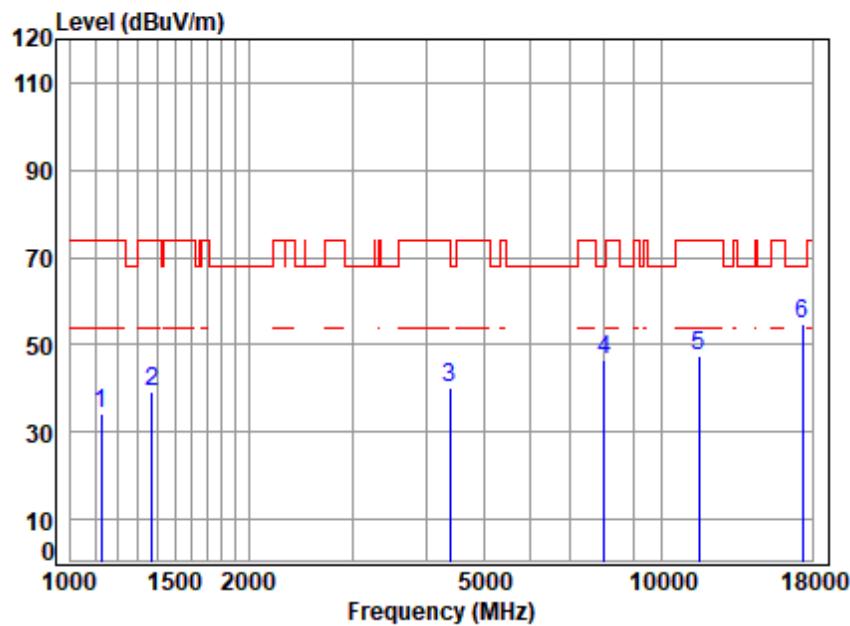
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	46.16	34.15	74.00	-39.85 peak
2	1374.295	2.83	24.55	38.37	50.12	39.13	74.00	-34.87 peak
3	4392.376	5.08	34.74	35.80	35.91	39.93	74.00	-34.07 peak
4	8013.020	6.53	36.40	36.57	40.07	46.43	68.20	-21.77 peak
5	11570.000	8.22	37.73	37.67	38.96	47.24	74.00	-26.76 peak
6	p17355.000	10.26	43.26	37.56	38.74	54.70	68.20	-13.50 peak

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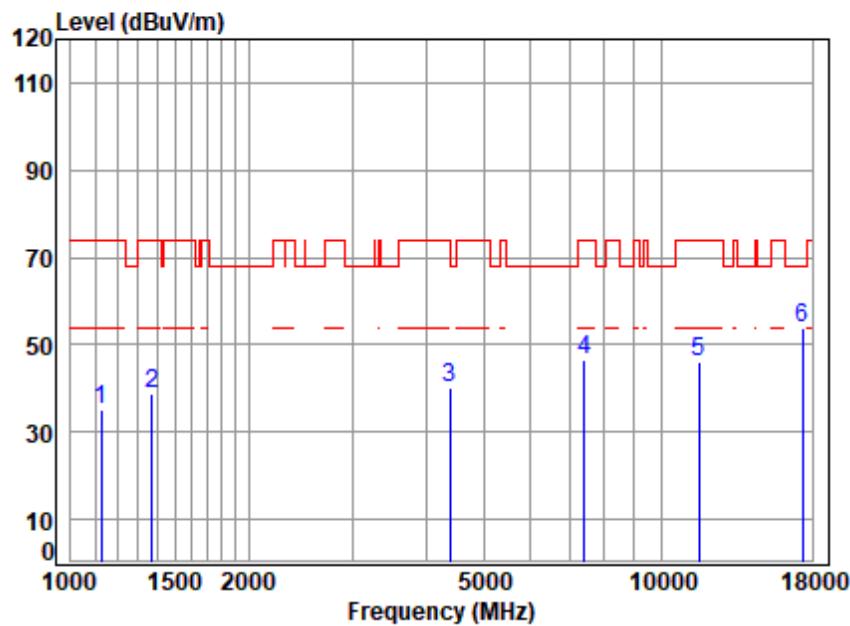
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	47.14	35.13	74.00	-38.87 peak
2	1374.295	2.83	24.55	38.37	49.71	38.72	74.00	-35.28 peak
3	4392.376	5.08	34.74	35.80	36.29	40.31	74.00	-33.69 peak
4	7411.461	6.01	35.85	35.99	40.58	46.45	74.00	-27.55 peak
5	11570.000	8.22	37.73	37.67	37.74	46.02	74.00	-27.98 peak
6	p17355.000	10.26	43.26	37.56	37.99	53.95	68.20	-14.25 peak

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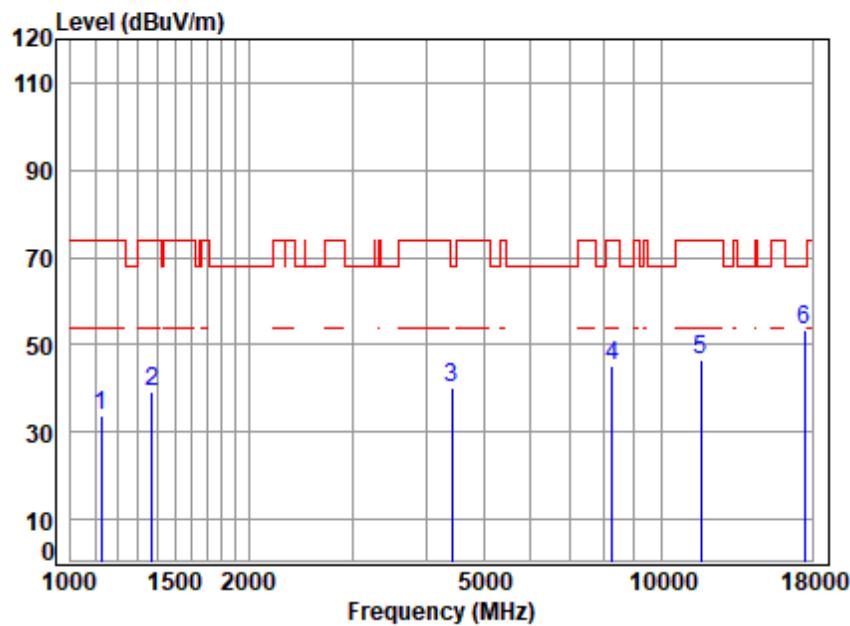
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.95	33.94	74.00	-40.06 peak
2	1374.295	2.83	24.55	38.37	50.24	39.25	74.00	-34.75 peak
3	4417.841	5.10	34.59	35.78	36.27	40.18	68.20	-28.02 peak
4	8248.005	6.77	36.70	36.83	38.42	45.06	74.00	-28.94 peak
5	11650.000	8.25	37.80	37.65	38.11	46.51	74.00	-27.49 peak
6	p17475.000	10.30	43.40	37.58	37.29	53.41	68.20	-14.79 peak

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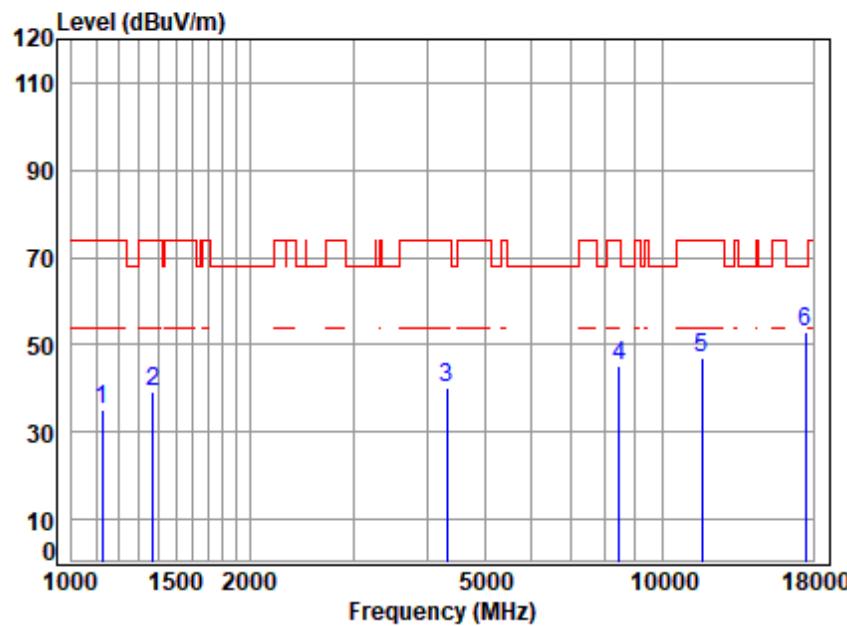
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

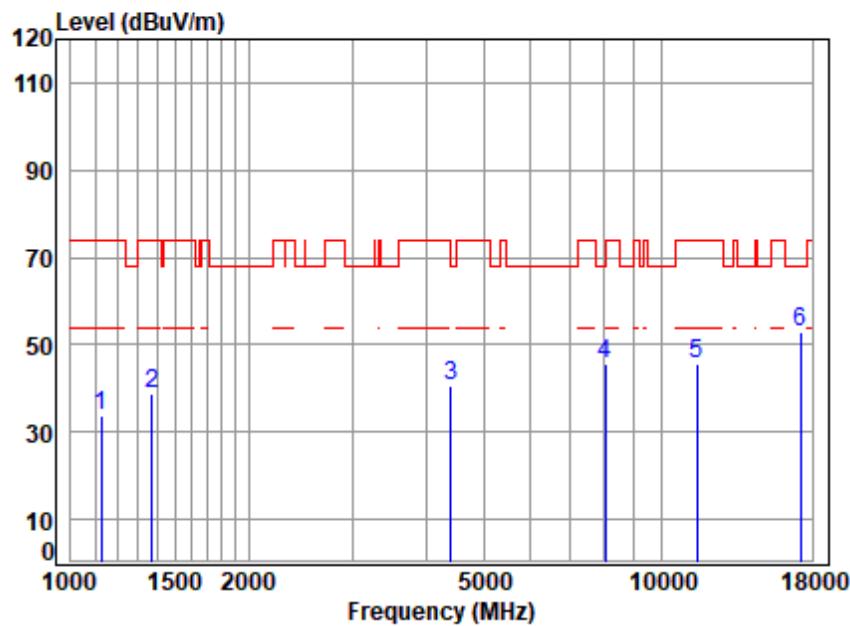
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	47.18	35.17	74.00	-38.83 peak
2	1374.295	2.83	24.55	38.37	50.26	39.27	74.00	-34.73 peak
3	4316.859	5.00	34.13	35.86	37.10	40.37	74.00	-33.63 peak
4	8440.945	6.96	36.62	37.04	38.66	45.20	74.00	-28.80 peak
5	11650.000	8.25	37.80	37.65	38.47	46.87	74.00	-27.13 peak
6	p17475.000	10.30	43.40	37.58	36.65	52.77	68.20	-15.43 peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

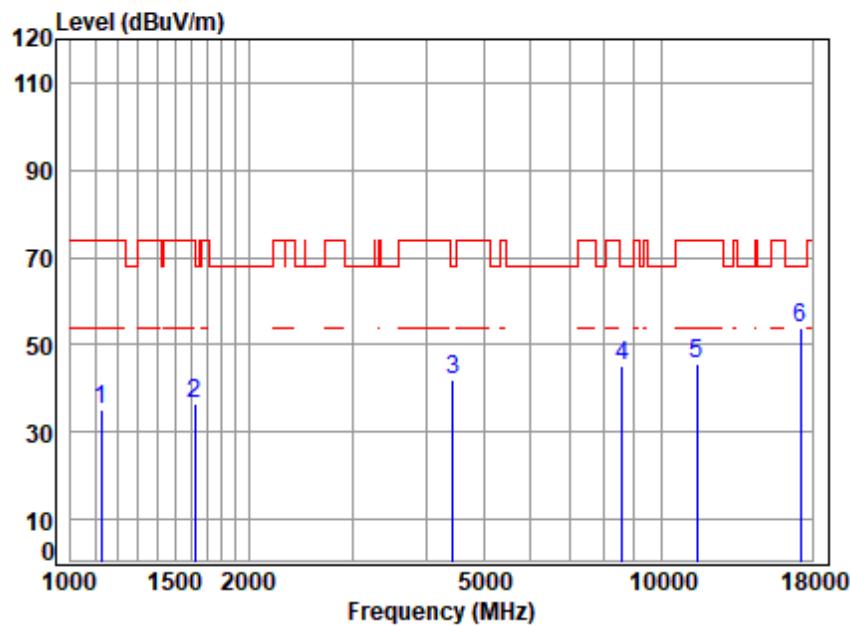
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.58	33.57	74.00	-40.43 peak
2	1374.295	2.83	24.55	38.37	49.81	38.82	74.00	-35.18 peak
3	4405.090	5.09	34.74	35.79	36.74	40.78	68.20	-27.42 peak
4	8036.214	6.56	36.40	36.60	39.12	45.48	74.00	-28.52 peak
5	11490.000	8.19	37.79	37.69	37.50	45.79	74.00	-28.21 peak
6	p17235.000	10.22	43.03	37.55	37.41	53.11	68.20	-15.09 peak

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5745 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	47.35	35.34	74.00	-38.66 peak
2	1625.121	3.08	26.55	38.41	45.33	36.55	74.00	-37.45 peak
3	4430.628	5.11	34.43	35.77	38.18	41.95	68.20	-26.25 peak
4	8588.607	7.07	36.88	37.19	38.37	45.13	68.20	-23.07 peak
5	11490.000	8.19	37.79	37.69	37.50	45.79	74.00	-28.21 peak
6	p17235.000	10.22	43.03	37.55	37.96	53.66	68.20	-14.54 peak

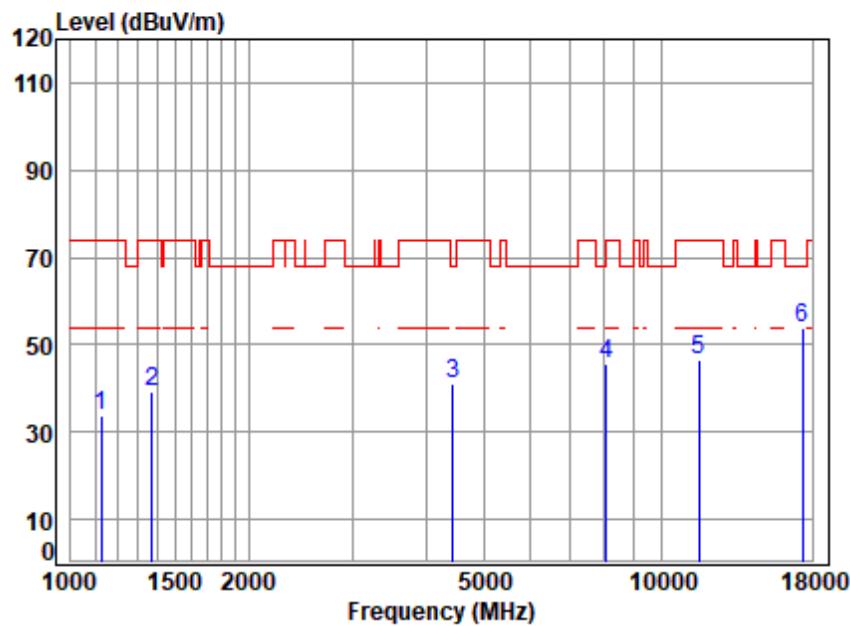
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11AC20

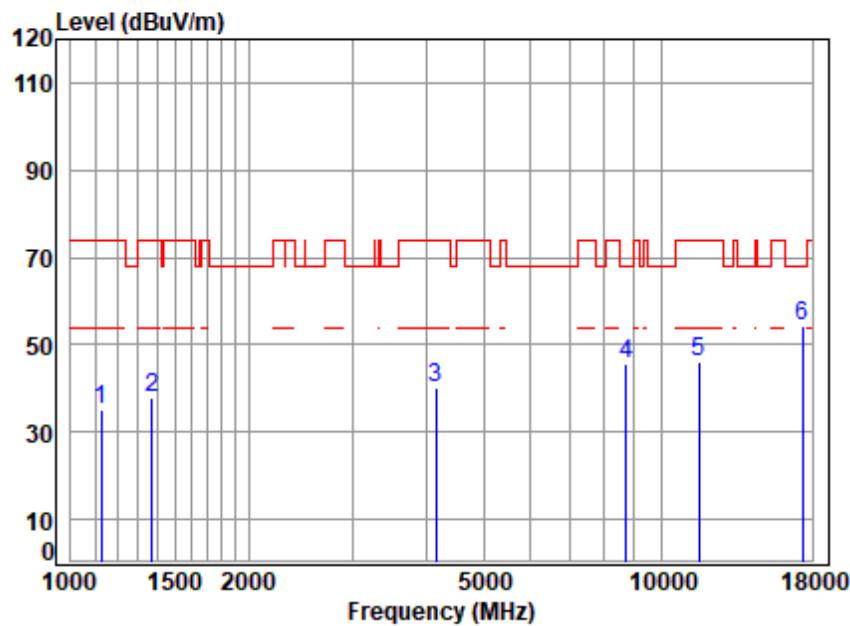
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.63	33.62	74.00	-40.38 peak
2	1374.295	2.83	24.55	38.37	50.05	39.06	74.00	-34.94 peak
3	4443.453	5.13	34.28	35.77	37.23	40.87	68.20	-27.33 peak
4	8082.804	6.60	36.47	36.65	39.19	45.61	74.00	-28.39 peak
5	11570.000	8.22	37.73	37.67	38.40	46.68	74.00	-27.32 peak
6	p17355.000	10.26	43.26	37.56	37.70	53.66	68.20	-14.54 peak

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	47.19	35.18	74.00	-38.82 peak
2	1374.295	2.83	24.55	38.37	48.90	37.91	74.00	-36.09 peak
3	4145.664	4.82	33.73	35.99	37.73	40.29	74.00	-33.71 peak
4	8713.630	7.13	36.90	37.32	38.73	45.44	68.20	-22.76 peak
5	11570.000	8.22	37.73	37.67	37.87	46.15	74.00	-27.85 peak
6	p17355.000	10.26	43.26	37.56	38.15	54.11	68.20	-14.09 peak

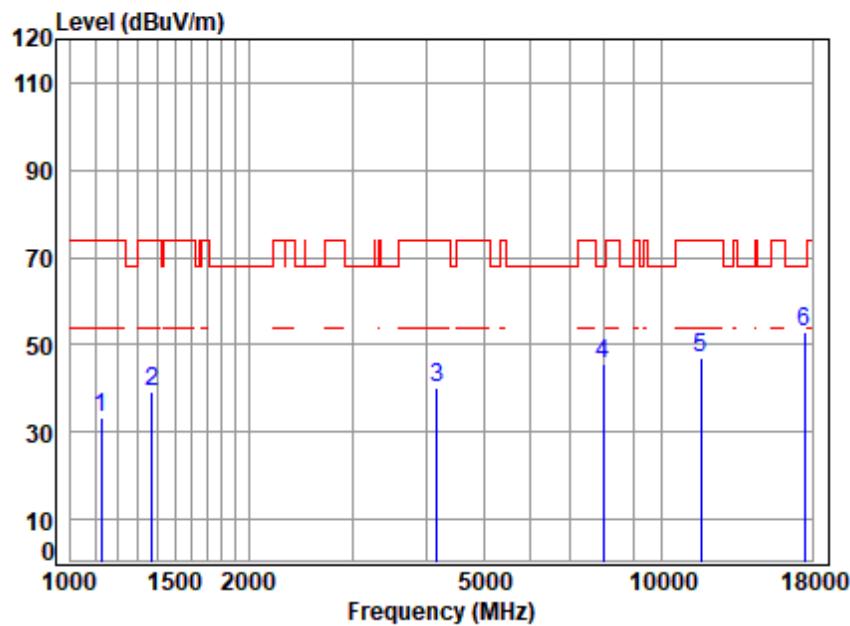
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5825 TX RSE
 Note : 5G WIFI 11AC20

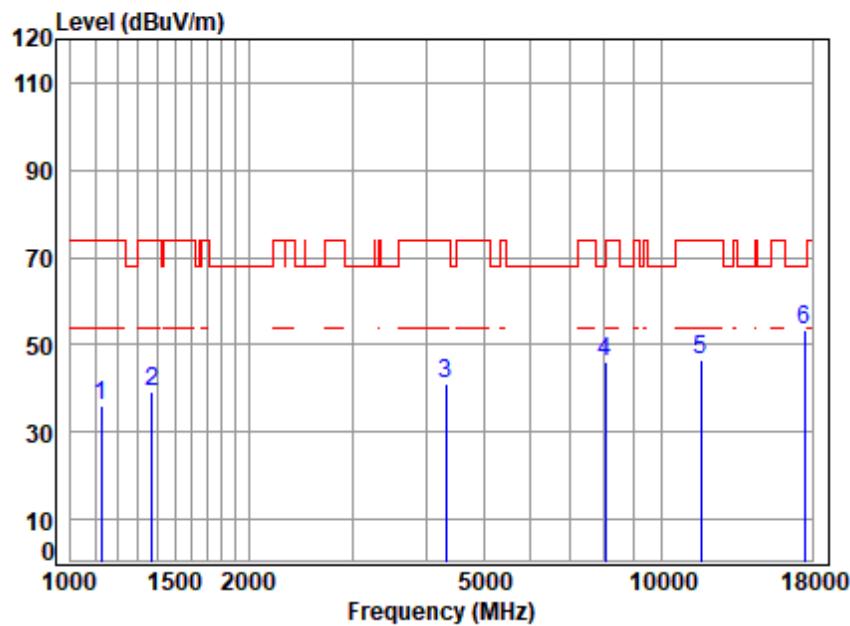
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.21	33.20	74.00	-40.80 peak
2	1374.295	2.83	24.55	38.37	50.06	39.07	74.00	-34.93 peak
3	4169.698	4.85	33.80	35.97	37.32	40.00	74.00	-34.00 peak
4	7989.893	6.51	36.40	36.55	39.15	45.51	68.20	-22.69 peak
5	11650.000	8.25	37.80	37.65	38.74	47.14	74.00	-26.86 peak
6	p17475.000	10.30	43.40	37.58	36.86	52.98	68.20	-15.22 peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	48.05	36.04	74.00	-37.96 peak
2	1374.295	2.83	24.55	38.37	50.24	39.25	74.00	-34.75 peak
3	4316.859	5.00	34.13	35.86	37.67	40.94	74.00	-33.06 peak
4	8036.214	6.56	36.40	36.60	39.77	46.13	74.00	-27.87 peak
5	11650.000	8.25	37.80	37.65	37.98	46.38	74.00	-27.62 peak
6	p17475.000	10.30	43.40	37.58	37.37	53.49	68.20	-14.71 peak

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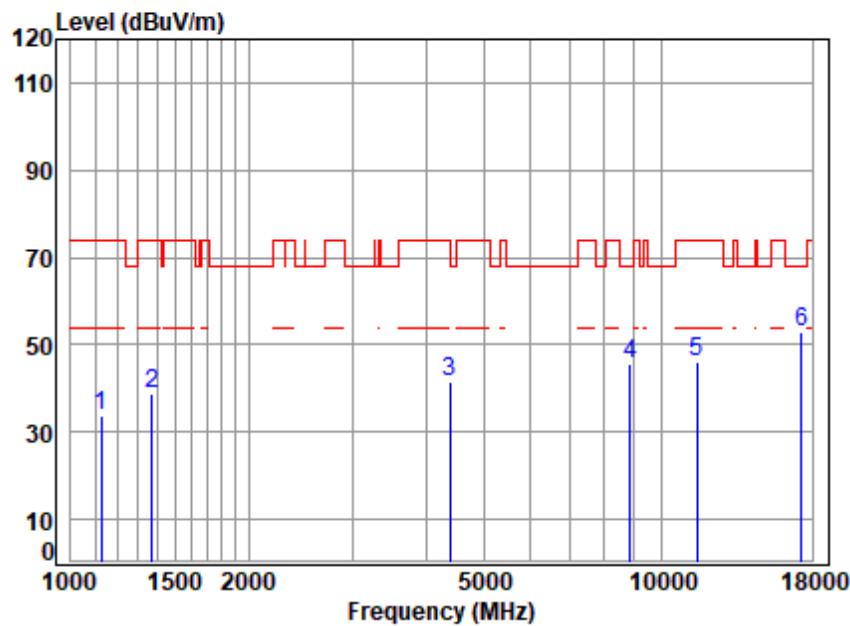
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.92	33.91	74.00	-40.09 peak
2	1374.295	2.83	24.55	38.37	49.65	38.66	74.00	-35.34 peak
3	4379.699	5.06	34.64	35.81	37.58	41.47	74.00	-32.53 peak
4	8866.062	7.20	37.20	37.48	38.51	45.43	68.20	-22.77 peak
5	11510.000	8.19	37.79	37.69	37.87	46.16	74.00	-27.84 peak
6	p17265.000	10.23	43.06	37.55	37.01	52.75	68.20	-15.45 peak

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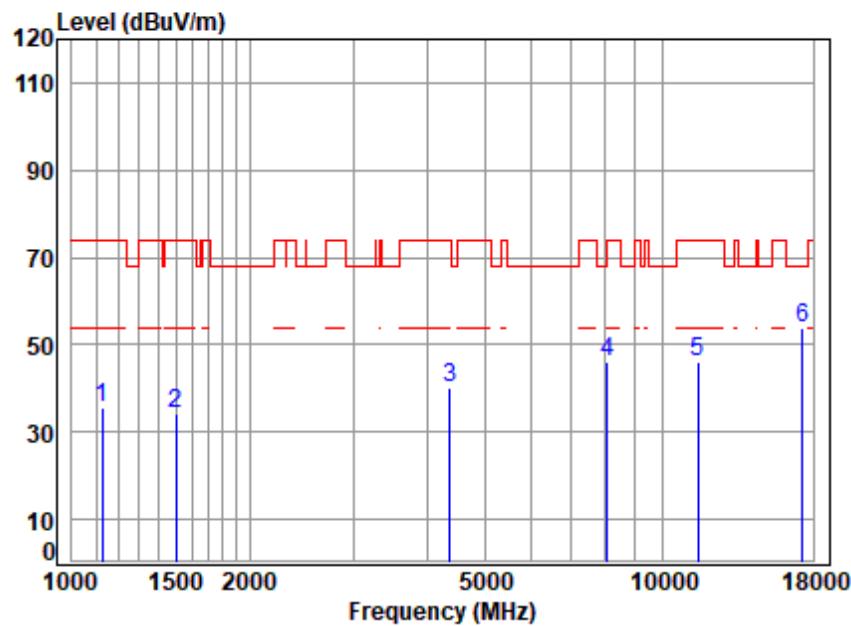
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 1125.813	2.52	23.80	38.33	47.57	35.56	74.00	-38.44	peak
2 1498.781	2.97	26.77	38.39	42.76	34.11	74.00	-39.89	peak
3 4367.058	5.05	34.54	35.82	36.32	40.09	74.00	-33.91	peak
4 8059.475	6.58	36.42	36.63	39.51	45.88	74.00	-28.12	peak
5 11510.000	8.19	37.79	37.69	37.86	46.15	74.00	-27.85	peak
6 p17265.000	10.23	43.06	37.55	37.97	53.71	68.20	-14.49	peak

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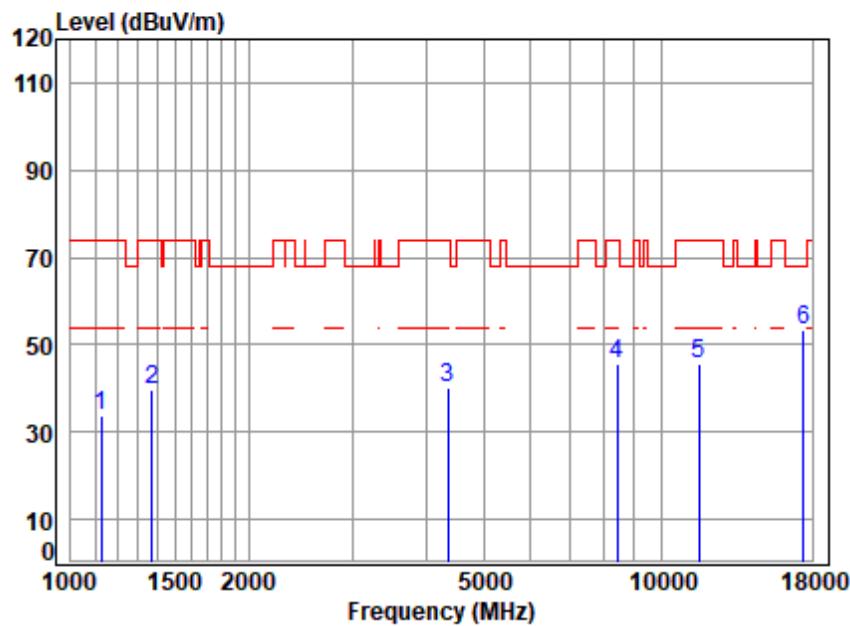
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5795 TX RSE
 Note : 5G WIFI 11AC40

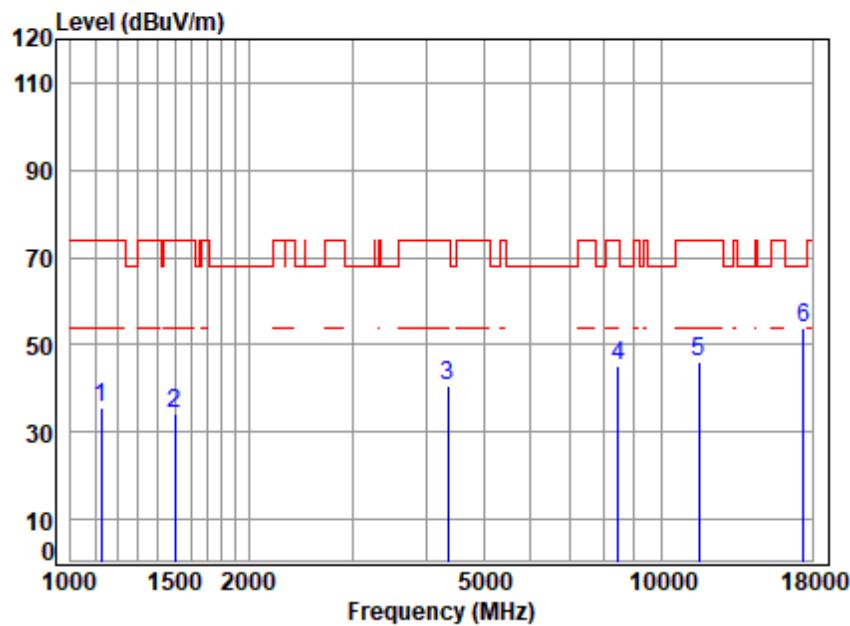
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.57	33.56	74.00	-40.44 peak
2	1374.295	2.83	24.55	38.37	50.58	39.59	74.00	-34.41 peak
3	4354.454	5.04	34.44	35.83	36.40	40.05	74.00	-33.95 peak
4	8416.584	6.94	36.67	37.01	39.08	45.68	74.00	-28.32 peak
5	11590.000	8.23	37.71	37.67	37.24	45.51	74.00	-28.49 peak
6	p17385.000	10.27	43.35	37.57	37.36	53.41	68.20	-14.79 peak

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5795 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	47.61	35.60	74.00	-38.40 peak
2	1498.781	2.97	26.77	38.39	43.10	34.45	74.00	-39.55 peak
3	4354.454	5.04	34.44	35.83	36.99	40.64	74.00	-33.36 peak
4	8465.379	6.99	36.63	37.06	38.71	45.27	74.00	-28.73 peak
5	11590.000	8.23	37.71	37.67	37.68	45.95	74.00	-28.05 peak
6	p17385.000	10.27	43.35	37.57	37.65	53.70	68.20	-14.50 peak

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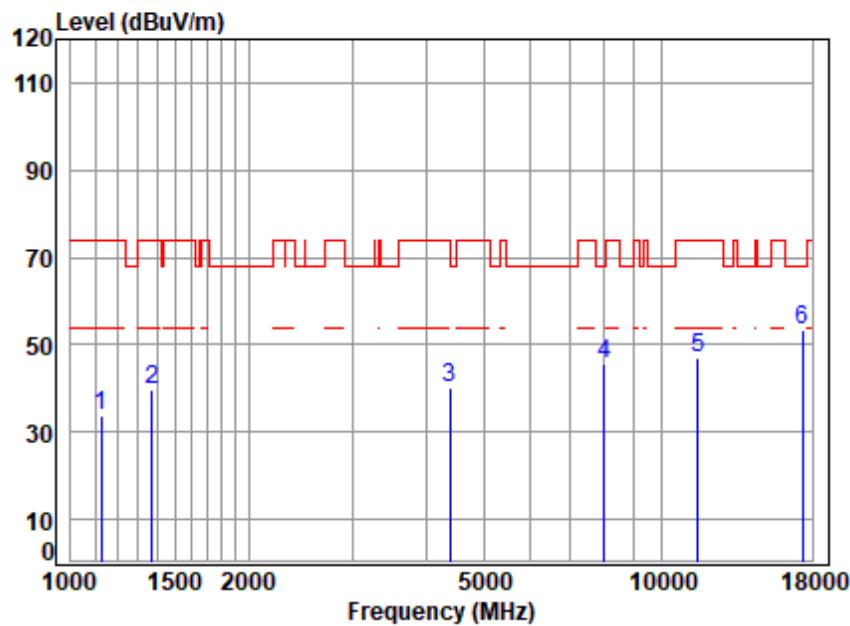
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02449AT/02450AT
 Mode : 5775 TX RSE
 Note : 5G WIFI 11AC80

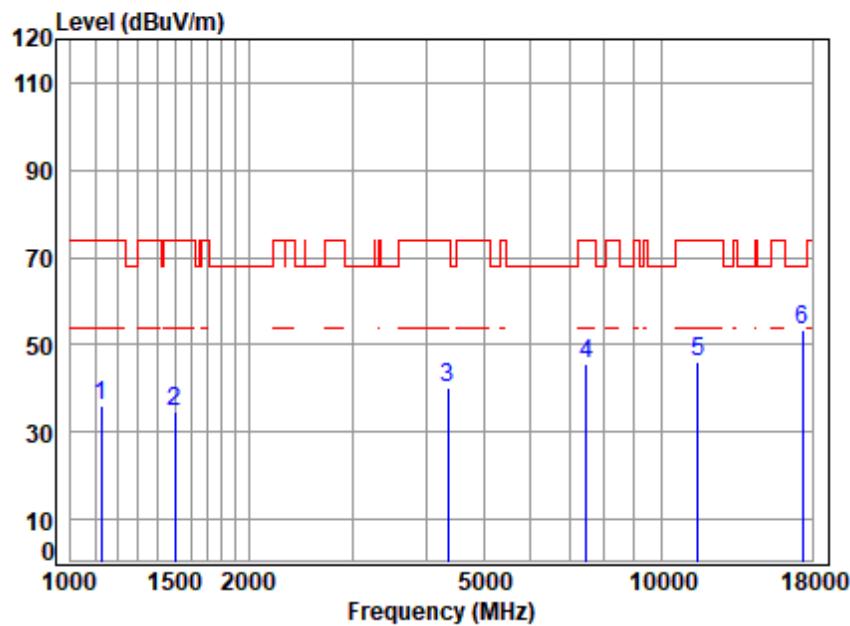
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	45.60	33.59	74.00	-40.41 peak
2	1374.295	2.83	24.55	38.37	50.59	39.60	74.00	-34.40 peak
3	4392.376	5.08	34.74	35.80	36.32	40.34	74.00	-33.66 peak
4	8013.020	6.53	36.40	36.57	39.42	45.78	68.20	-22.42 peak
5	11550.000	8.21	37.75	37.68	38.63	46.91	74.00	-27.09 peak
6	p17325.000	10.25	43.17	37.56	37.65	53.51	68.20	-14.69 peak

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02449AT/02450AT
 Mode : 5775 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1125.813	2.52	23.80	38.33	48.14	36.13	74.00	-37.87 peak
2	1498.781	2.97	26.77	38.39	43.47	34.82	74.00	-39.18 peak
3	4354.454	5.04	34.44	35.83	36.72	40.37	74.00	-33.63 peak
4	7476.006	6.01	36.05	36.06	39.75	45.75	74.00	-28.25 peak
5	11550.000	8.21	37.75	37.68	37.67	45.95	74.00	-28.05 peak
6	p17325.000	10.25	43.17	37.56	37.70	53.56	68.20	-14.64 peak

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7.4 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 55.8 % RH

Atmospheric Pressure: 1020 mbar

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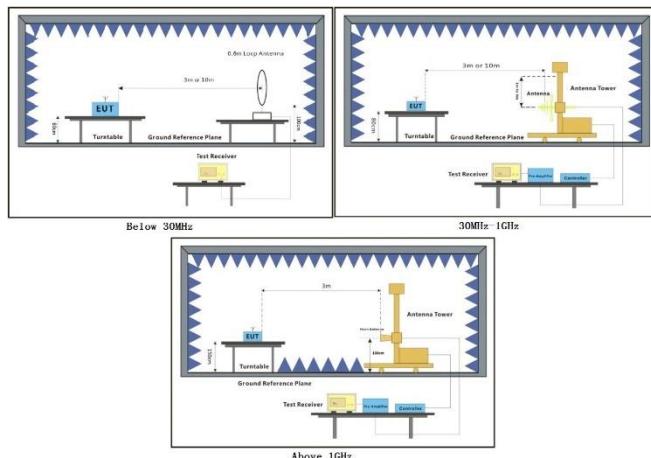
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7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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



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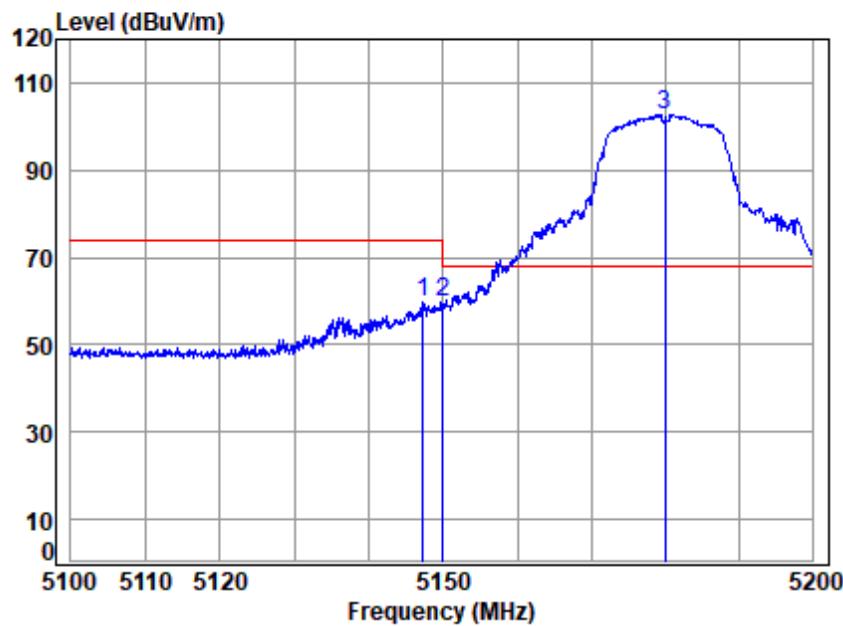
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5147.258	5.65	33.91	35.31	55.37	59.62	74.00	-14.38 peak
2 5149.980	5.65	33.90	35.31	55.39	59.63	74.00	-14.37 peak
3 p 5180.000	5.68	33.96	35.29	98.48	102.83	68.20	34.63 peak

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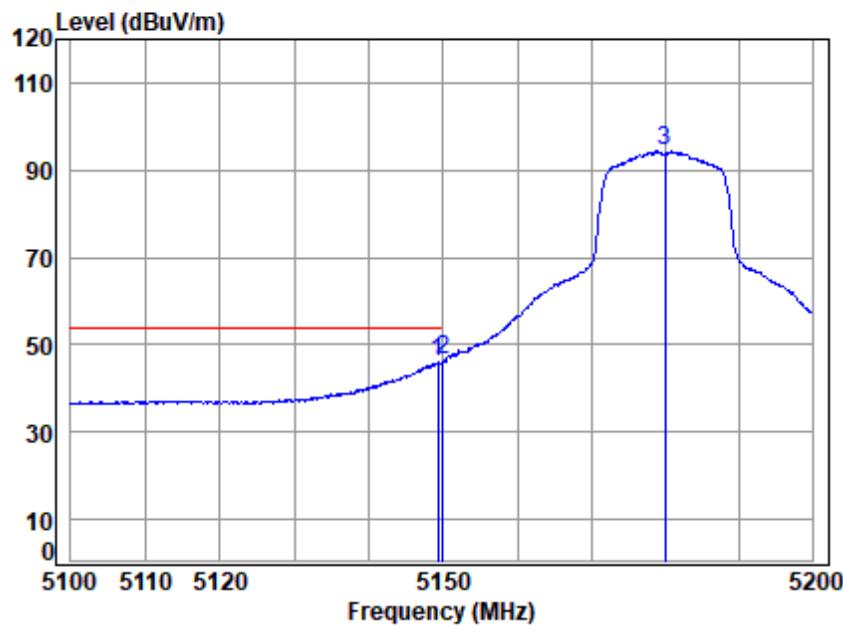
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.257	5.65	33.90	35.31	41.63	45.87	54.00	-8.13	Average
2	5149.980	5.65	33.90	35.31	42.15	46.39	54.00	-7.61	Average
3	5180.000	5.68	33.96	35.29	89.95	94.30	-----	-----	Average

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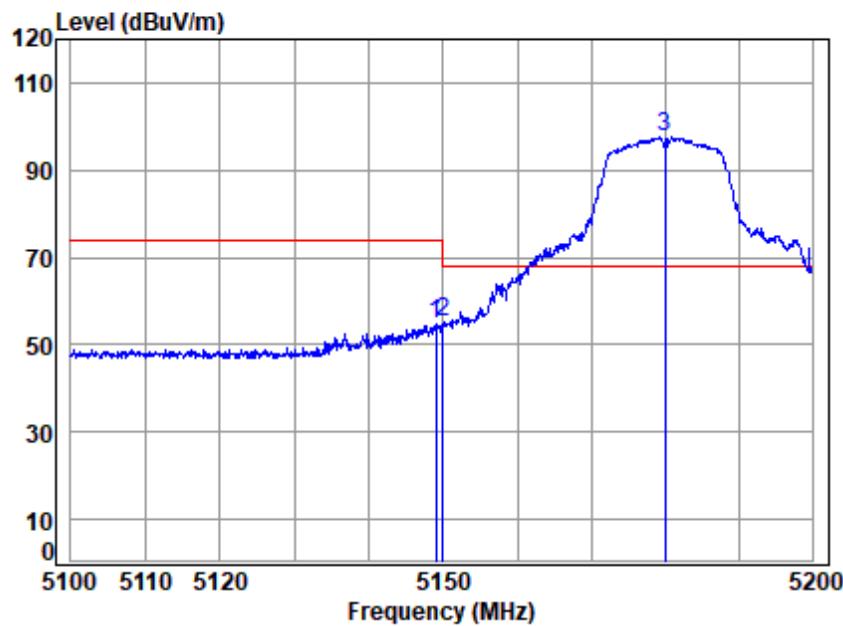
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.057	5.65	33.90	35.31	50.57	54.81	74.00	-19.19 Peak
2	5149.980	5.65	33.90	35.31	50.81	55.05	74.00	-18.95 Peak
3 p	5180.000	5.68	33.96	35.29	93.21	97.56	68.20	29.36 Peak

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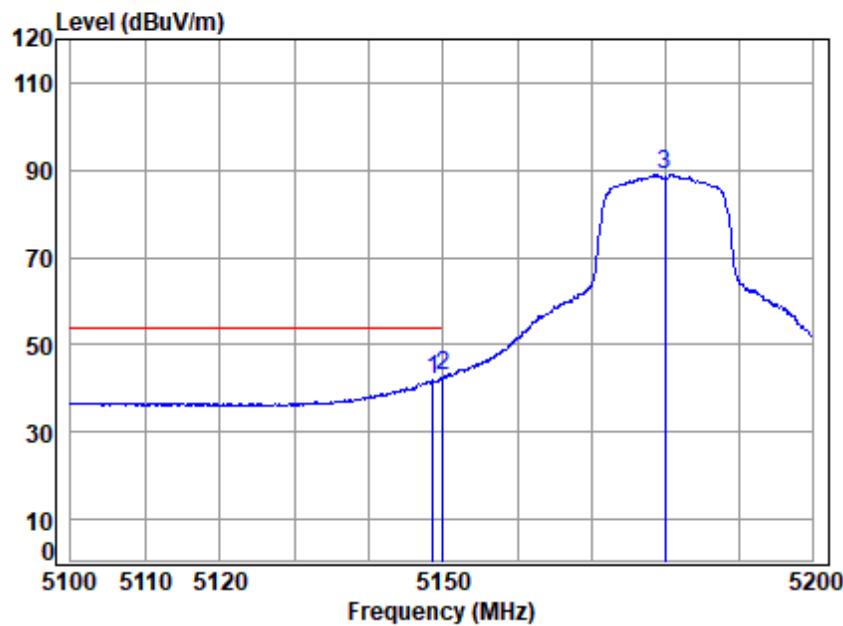
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5148.558	5.65	33.90	35.31	37.69	41.93	54.00	-12.07 Average
2 q 5149.980	5.65	33.90	35.31	38.51	42.75	54.00	-11.25 Average
3 5180.000	5.68	33.96	35.29	84.55	88.90	-----	----- Average

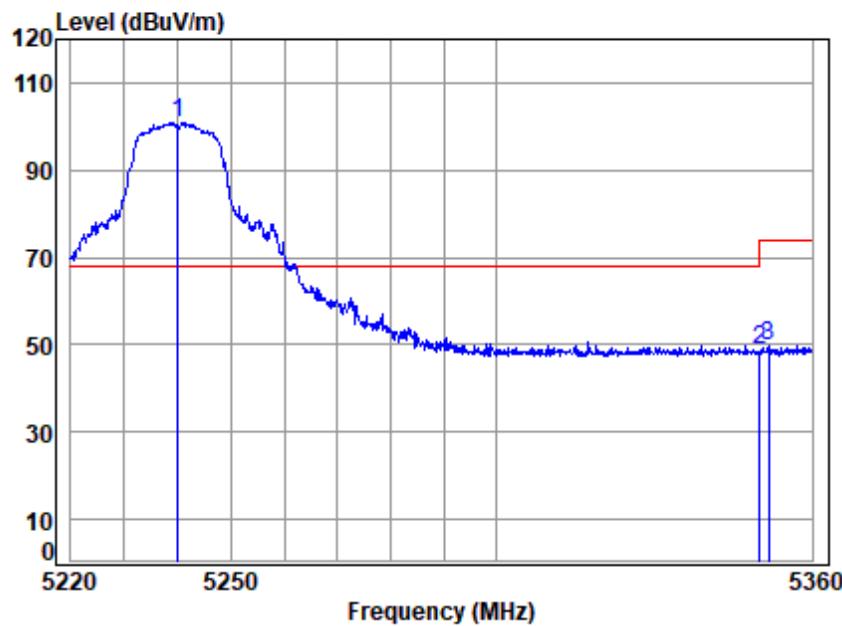
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5240.000	5.74	34.08	35.26	96.36	100.92	68.20	32.72	peak
2 5350.020	5.85	34.40	35.21	43.61	48.65	74.00	-25.35	peak
3 5351.637	5.85	34.41	35.21	44.90	49.95	74.00	-24.05	peak

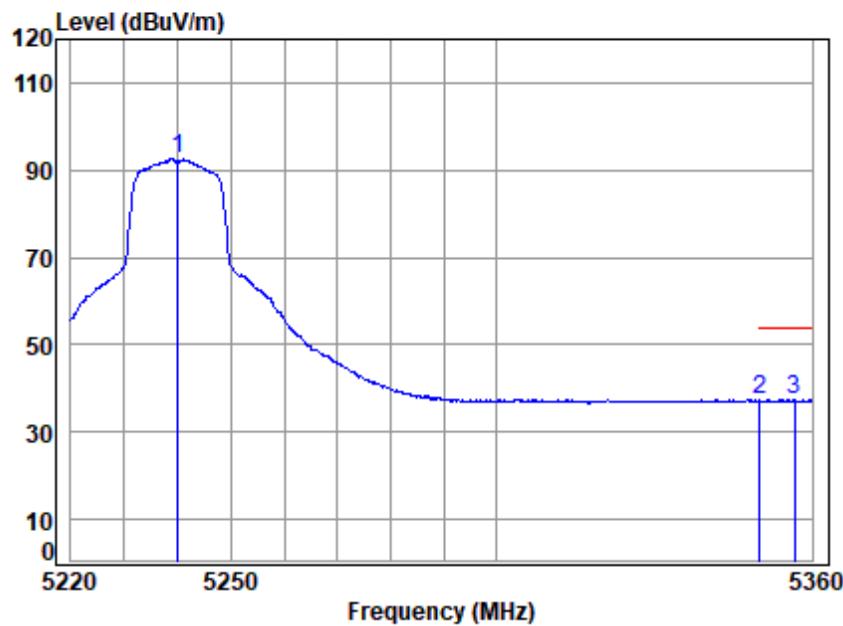
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 5240.000	5.74	34.08	35.26	88.13	92.69	-----	-----	Average
2 5350.020	5.85	34.40	35.21	32.16	37.20	54.00	-16.80	Average
3 q 5356.596	5.86	34.43	35.20	32.22	37.31	54.00	-16.69	Average

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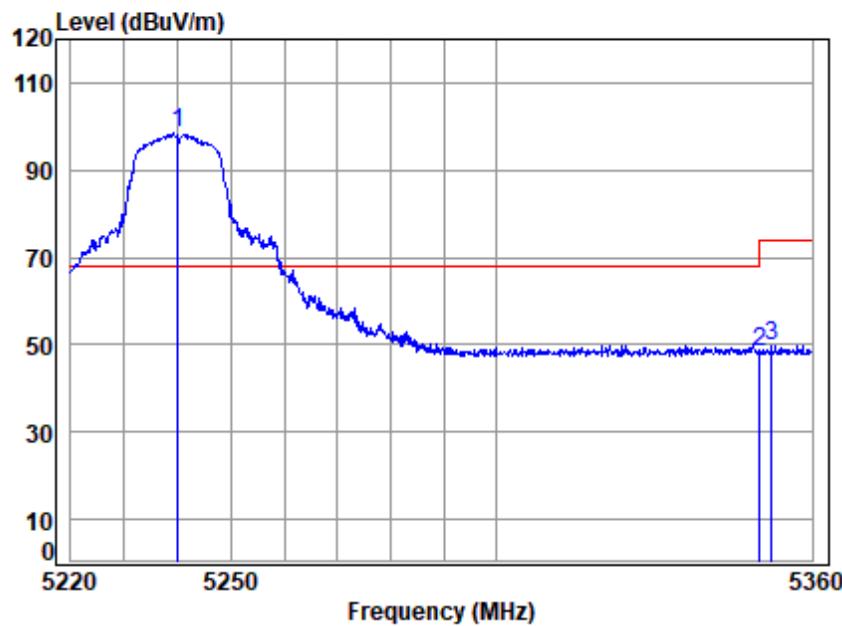
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5240.000	5.74	34.08	35.26	93.97	98.53	68.20	30.33	Peak
2 5350.020	5.85	34.40	35.21	43.30	48.34	74.00	-25.66	Peak
3 5352.203	5.85	34.41	35.21	44.84	49.89	74.00	-24.11	Peak

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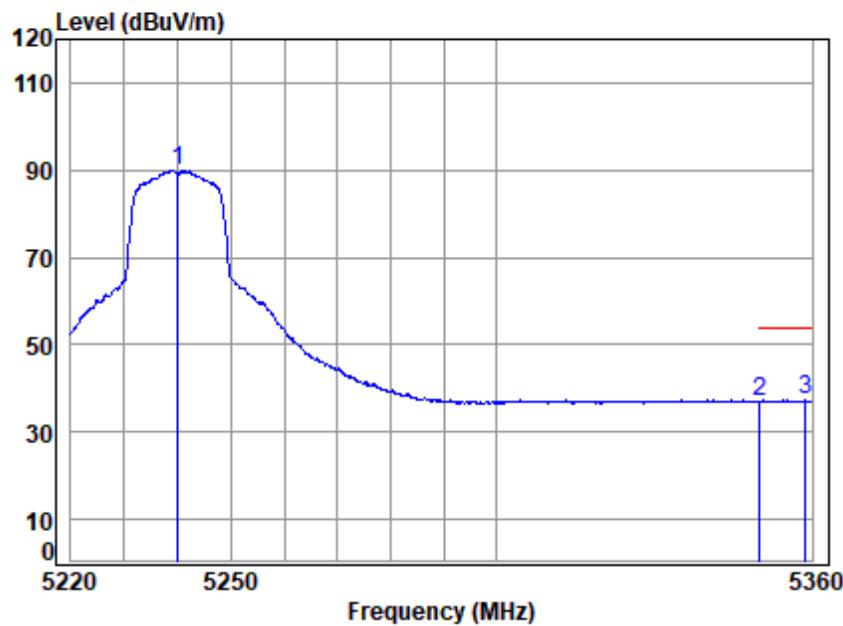
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5240.000	5.74	34.08	35.26	85.47	90.03	-----	-----	Average
2 5350.020	5.85	34.40	35.21	32.06	37.10	54.00	-16.90	Average
3 q 5358.724	5.86	34.43	35.20	32.16	37.25	54.00	-16.75	Average

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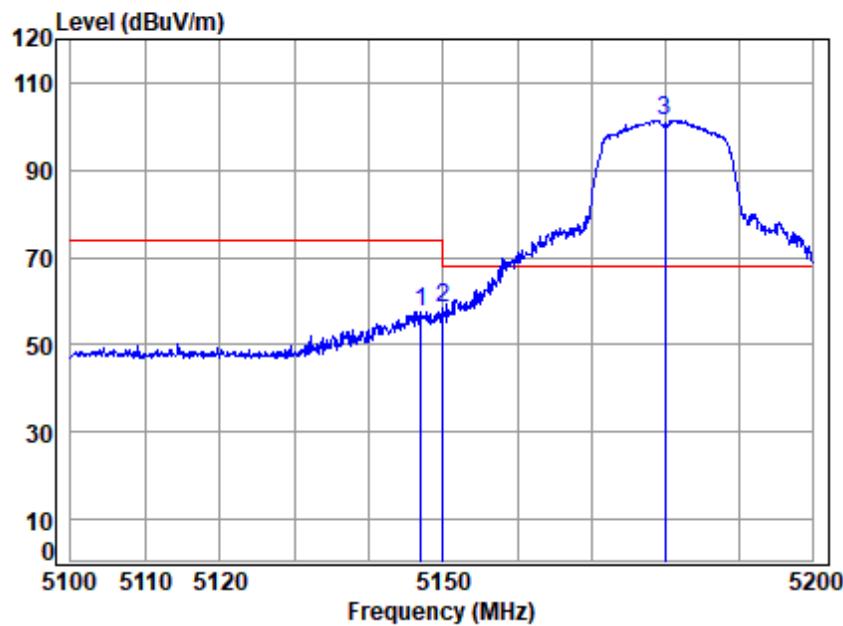
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 5146.958	5.65	33.91	35.31	53.35	57.60	74.00	-16.40 peak
2 5149.980	5.65	33.90	35.31	54.25	58.49	74.00	-15.51 peak
3 p 5180.000	5.68	33.96	35.29	97.16	101.51	68.20	33.31 peak

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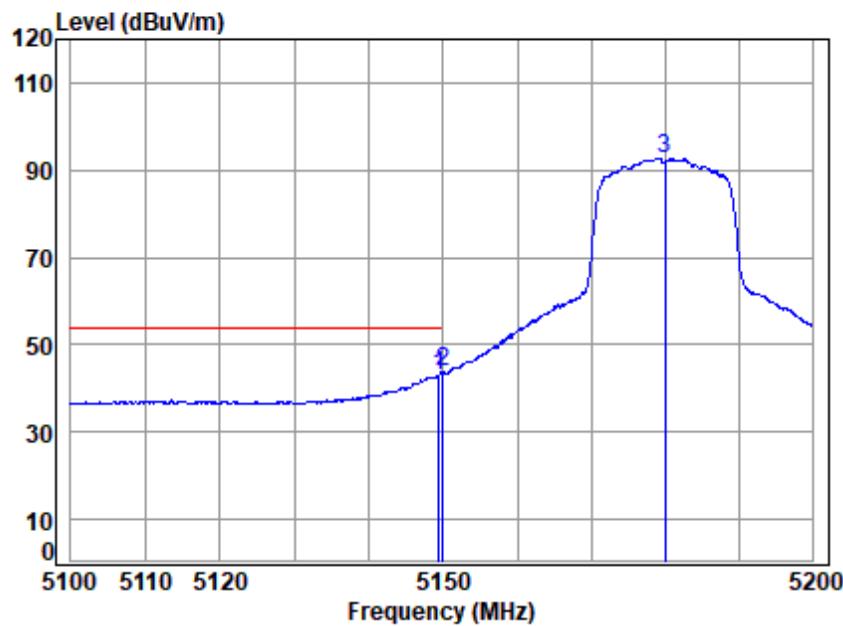
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit dBuV/m	Over Limit dB	Remark
1	5149.458	5.65	33.90	35.31	38.87	43.11	54.00	-10.89	Average	
2 q	5149.980	5.65	33.90	35.31	39.44	43.68	54.00	-10.32	Average	
3	5180.000	5.68	33.96	35.29	88.23	92.58	-----	-----	Average	



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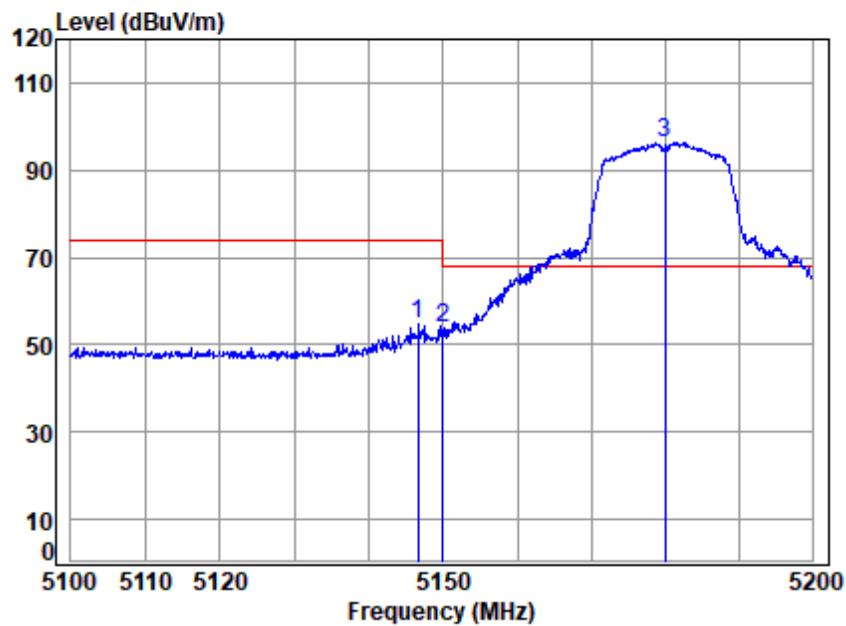
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5146.658	5.64	33.91	35.31	50.46	54.70	74.00	-19.30 Peak
2 5149.980	5.65	33.90	35.31	49.48	53.72	74.00	-20.28 Peak
3 p 5180.000	5.68	33.96	35.29	91.90	96.25	68.20	28.05 Peak

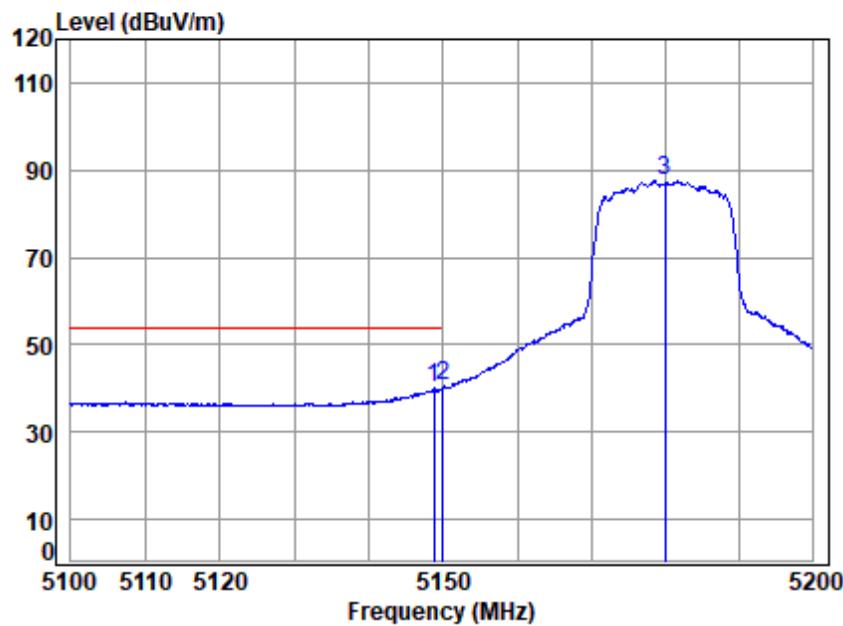
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5148.757	5.65	33.90	35.31	35.69	39.93	54.00	-14.07	Average
2 q 5149.980	5.65	33.90	35.31	36.18	40.42	54.00	-13.58	Average
3 5180.000	5.68	33.96	35.29	83.18	87.53	-----	-----	Average

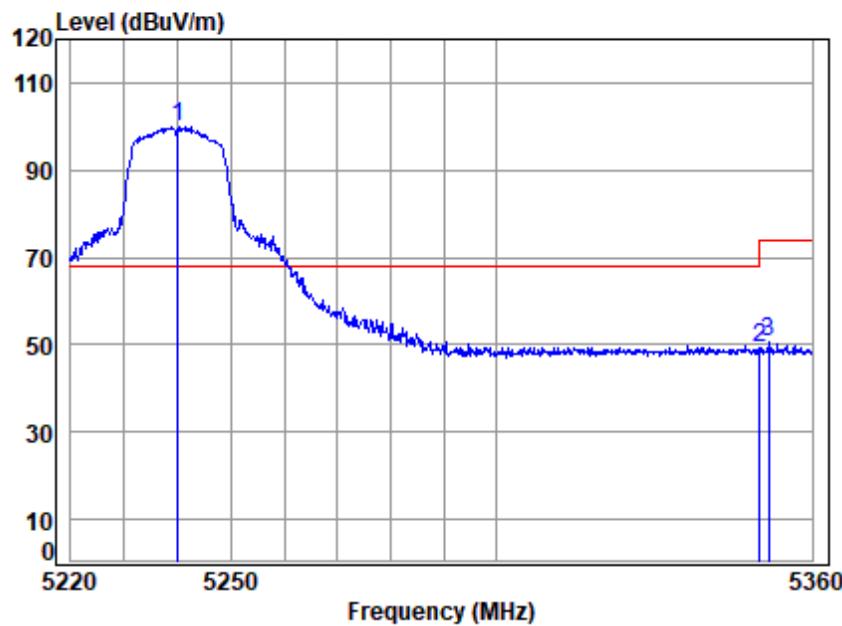
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5240.000	5.74	34.08	35.26	95.54	100.10	68.20	31.90	peak
2 5350.020	5.85	34.40	35.21	44.05	49.09	74.00	-24.91	peak
3 5351.637	5.85	34.41	35.21	45.52	50.57	74.00	-23.43	peak

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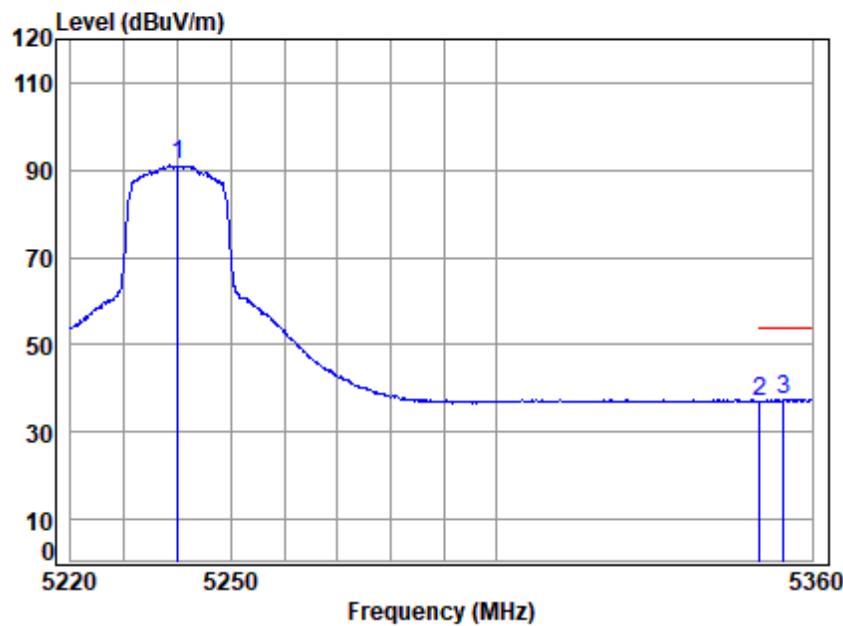
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5240.000	5.74	34.08	35.26	86.77	91.33	-----	-----	Average
2 5350.020	5.85	34.40	35.21	32.09	37.13	54.00	-16.87	Average
3 q 5354.612	5.86	34.42	35.21	32.34	37.41	54.00	-16.59	Average

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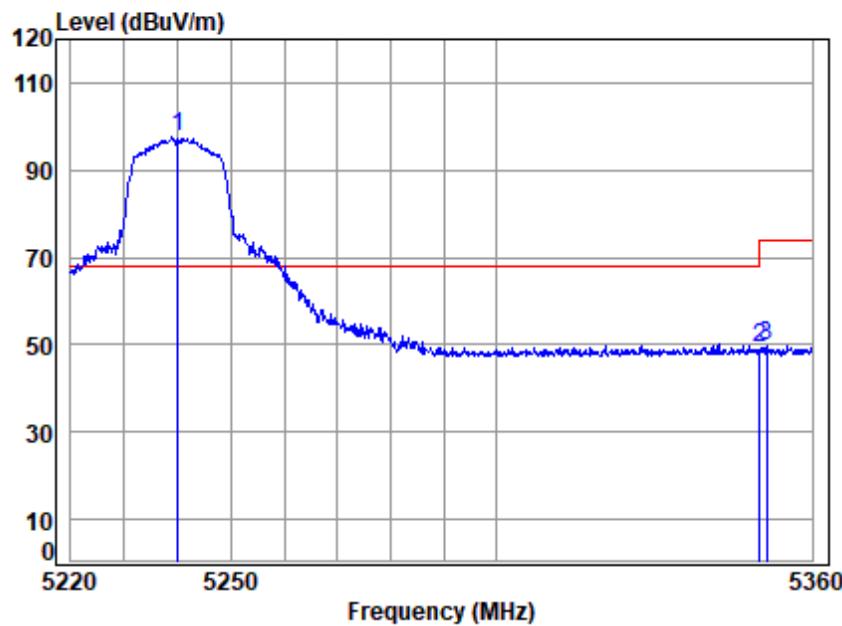
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5240.000	5.74	34.08	35.26	93.10	97.66	68.20	29.46 Peak
2 5350.020	5.85	34.40	35.21	44.29	49.33	74.00	-24.67 Peak
3 5351.354	5.85	34.41	35.21	44.91	49.96	74.00	-24.04 Peak

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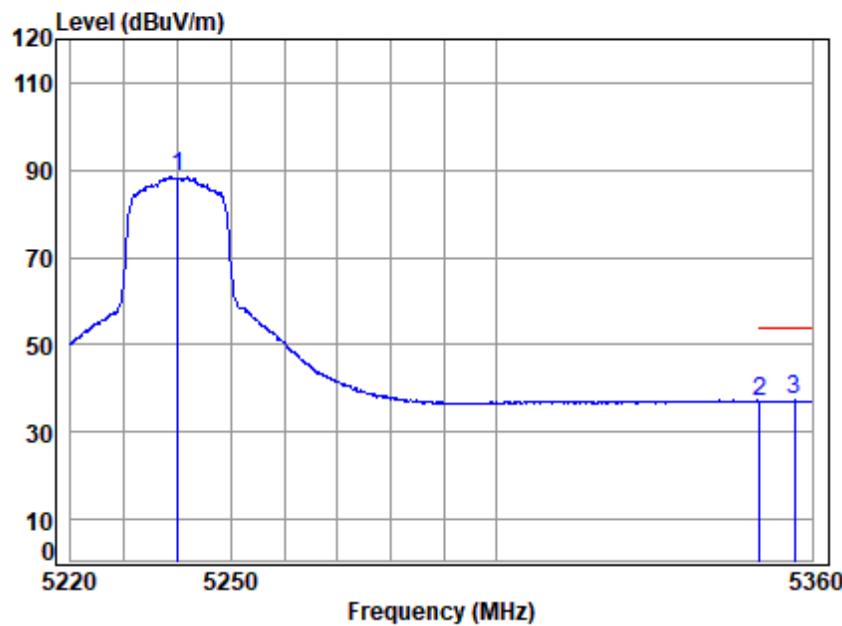
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5240.000	5.74	34.08	35.26	83.87	88.43	-----	-----	Average
2 5350.020	5.85	34.40	35.21	32.06	37.10	54.00	-16.90	Average
3 q 5356.596	5.86	34.43	35.20	32.13	37.22	54.00	-16.78	Average

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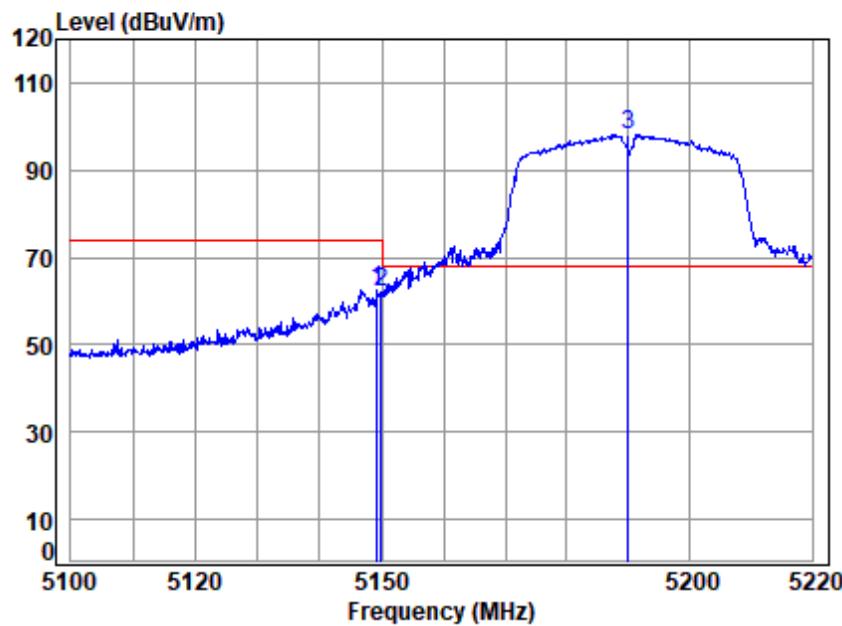
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5149.342	5.65	33.90	35.31	58.28	62.52	74.00 -11.48 peak
2	5149.980	5.65	33.90	35.31	57.88	62.12	74.00 -11.88 peak
3 p	5190.000	5.69	33.98	35.29	93.83	98.21	68.20 30.01 peak

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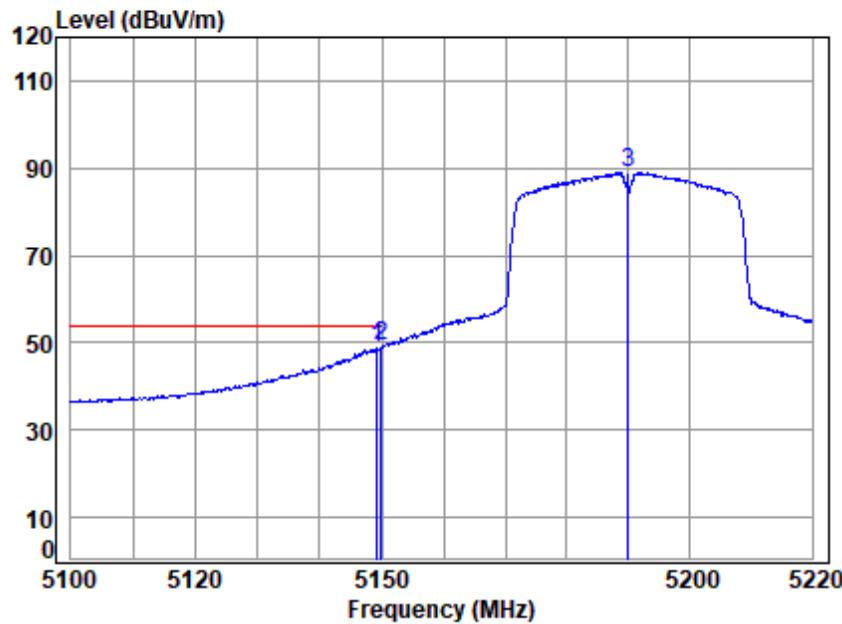
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.342	5.65	33.90	35.31	44.54	48.78	54.00	-5.22	Average
2 q 5149.980	5.65	33.90	35.31	45.09	49.33	54.00	-4.67	Average
3 5190.000	5.69	33.98	35.29	84.47	88.85	-----	-----	Average

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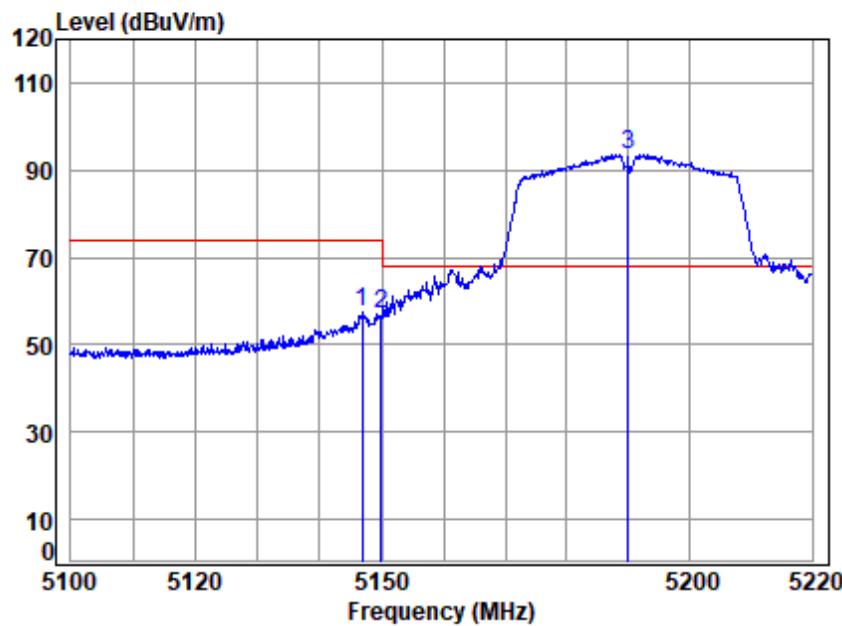
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5146.828	5.64	33.91	35.31	53.44	57.68	74.00	-16.32	Peak
2 5149.980	5.65	33.90	35.31	52.86	57.10	74.00	-16.90	Peak
3 p 5190.000	5.69	33.98	35.29	89.36	93.74	68.20	25.54	Peak

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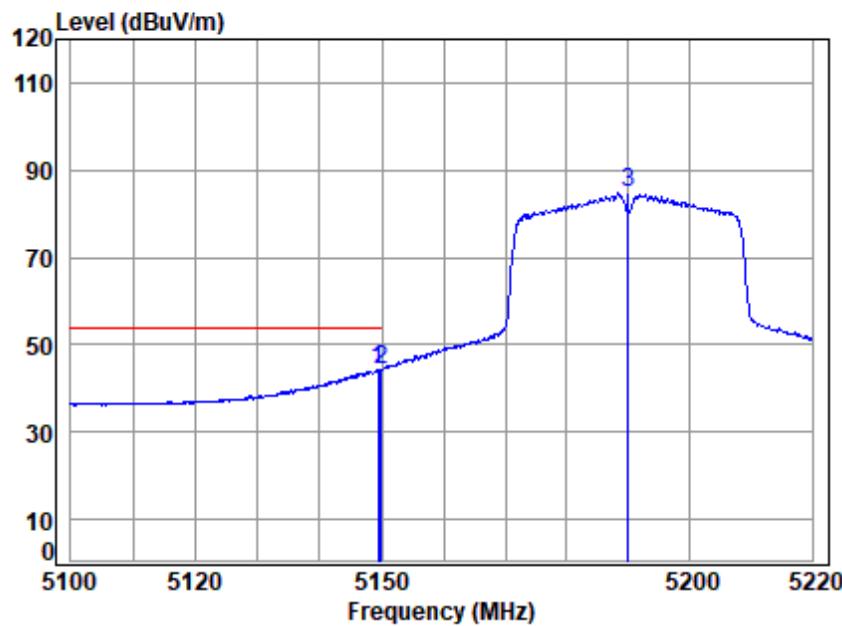
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

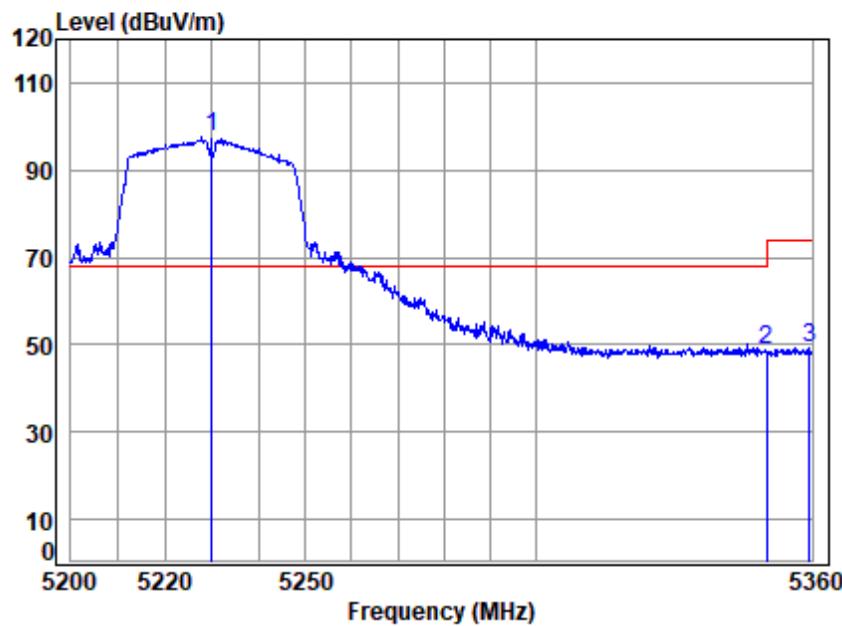
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.461	5.65	33.90	35.31	39.97	44.21	54.00	-9.79	Average
2 q 5149.980	5.65	33.90	35.31	40.16	44.40	54.00	-9.60	Average
3 5190.000	5.69	33.98	35.29	80.28	84.66	-----	-----	Average

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5230.000	5.73	34.06	35.27	93.17	97.69	68.20	29.49	peak
2 5350.020	5.85	34.40	35.21	43.56	48.60	74.00	-25.40	peak
3 5359.513	5.86	34.44	35.20	44.32	49.42	74.00	-24.58	peak

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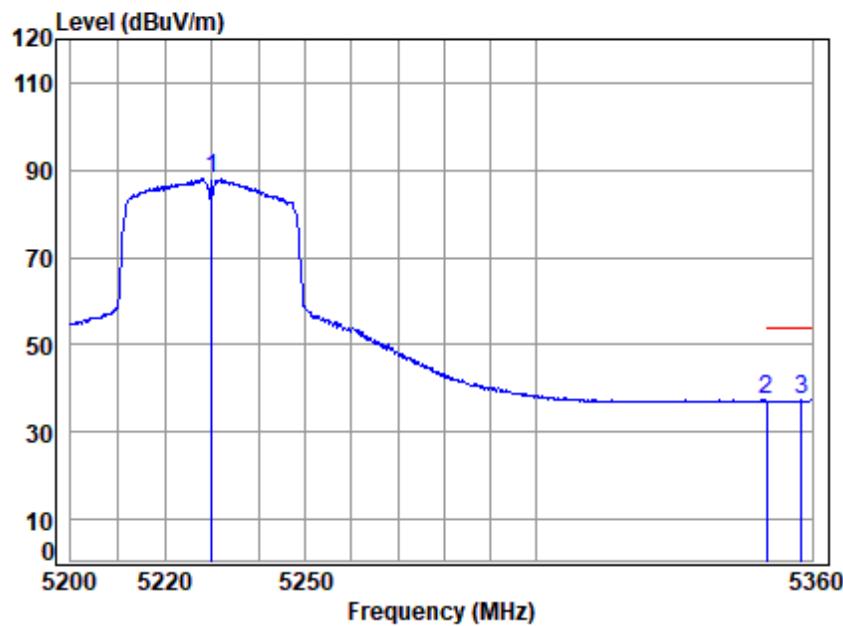
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	5.73	34.06	35.27	83.50	88.02	-----	Average
2	q 5350.020	5.85	34.40	35.21	32.28	37.32	54.00	-16.68 Average
3	5357.727	5.86	34.43	35.20	32.19	37.28	54.00	-16.72 Average

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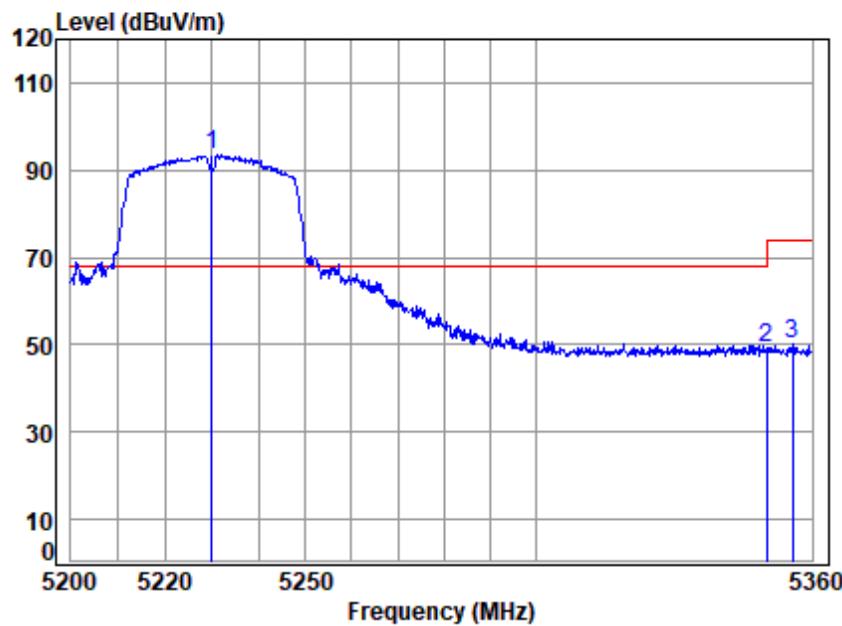
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5230.000	5.73	34.06	35.27	89.00	93.52	68.20	25.32 Peak
2 5350.020	5.85	34.40	35.21	44.12	49.16	74.00	-24.84 Peak
3 5355.778	5.86	34.42	35.21	45.29	50.36	74.00	-23.64 Peak

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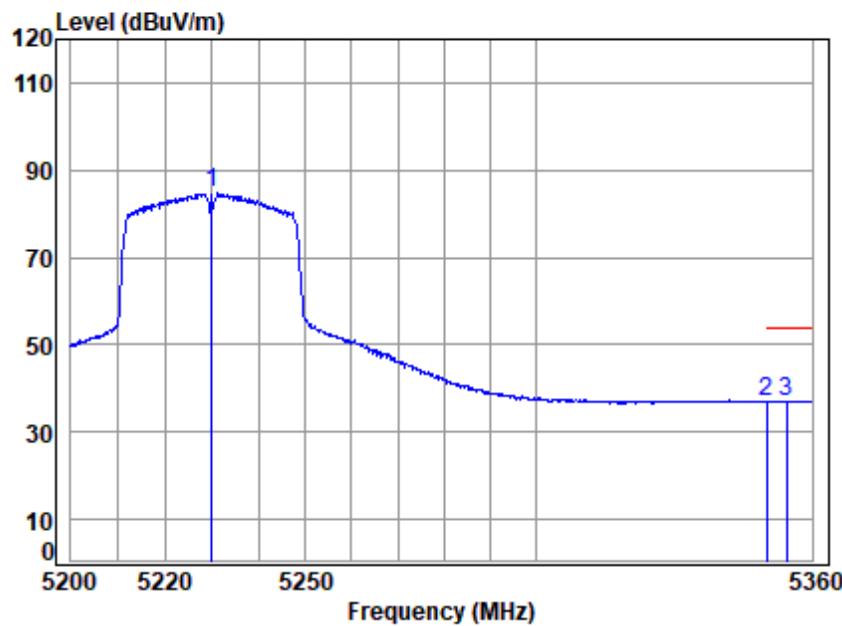
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5230.000	5.73	34.06	35.27	80.18	84.70	-----	-----	Average
2 5350.020	5.85	34.40	35.21	32.05	37.09	54.00	-16.91	Average
3 q 5354.318	5.86	34.42	35.21	32.07	37.14	54.00	-16.86	Average

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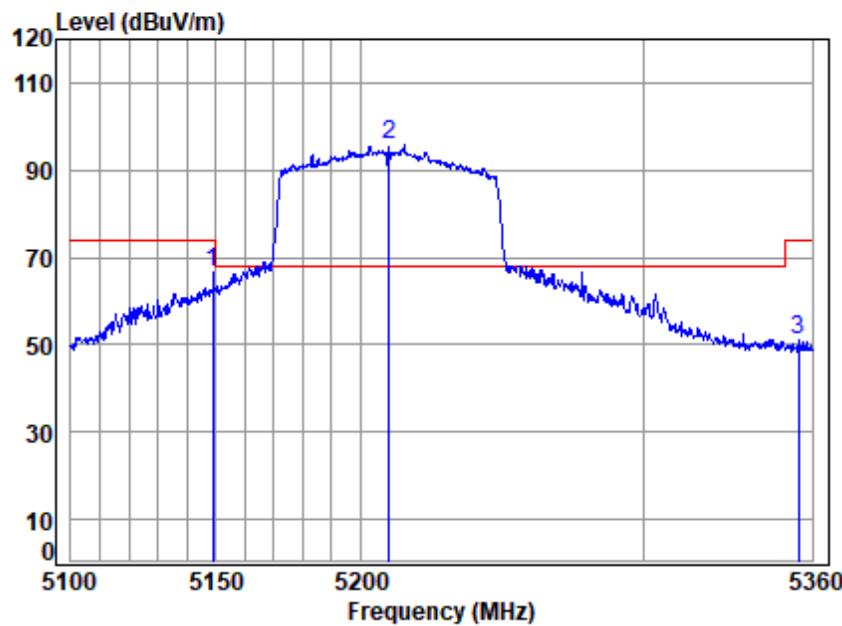
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5148.922	5.65	33.90	35.31	62.20	66.44	74.00	-7.56	peak
2 p 5210.000	5.71	34.02	35.28	91.44	95.89	68.20	27.69	peak
3 5355.205	5.86	34.42	35.21	46.07	51.14	74.00	-22.86	peak

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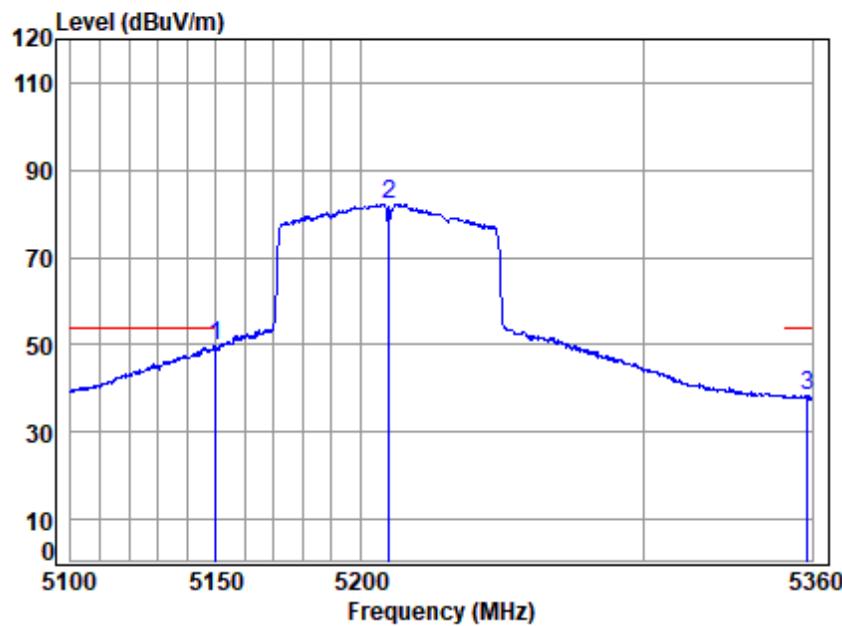
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

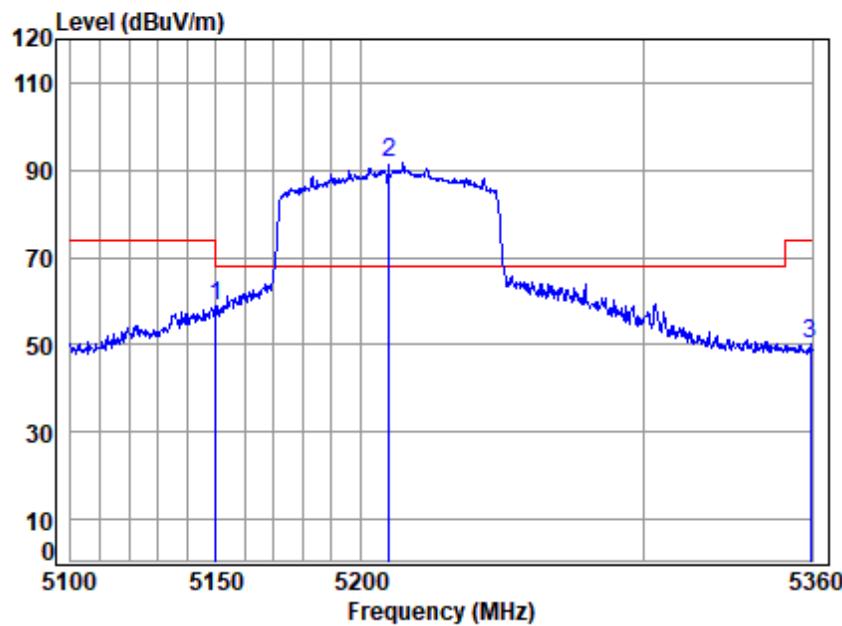
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5149.690	5.65	33.90	35.31	45.63	49.87	54.00	-4.13 Average
2 5210.000	5.71	34.02	35.28	77.85	82.30	-----	----- Average
3 5358.401	5.86	34.43	35.20	33.21	38.30	54.00	-15.70 Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.947	5.65	33.90	35.31	54.55	58.79	74.00	-15.21	Peak
2 p 5210.000	5.71	34.02	35.28	87.03	91.48	68.20	23.28	Peak
3 5359.467	5.86	34.44	35.20	45.14	50.24	74.00	-23.76	Peak

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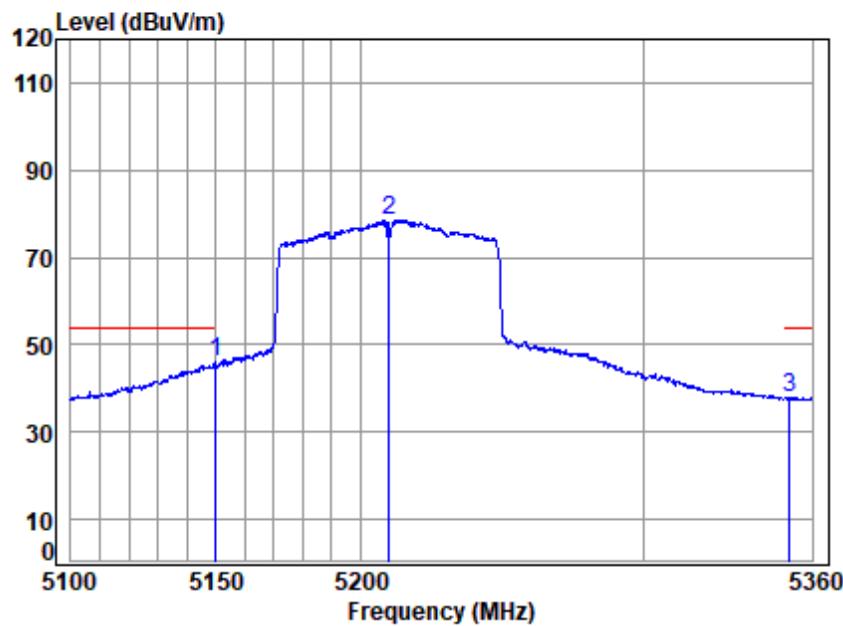
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5149.690	5.65	33.90	35.31	41.75	45.99	54.00	-8.01 Average
2 5210.000	5.71	34.02	35.28	74.10	78.55	-----	----- Average
3 5352.010	5.85	34.41	35.21	32.95	38.00	54.00	-16.00 Average

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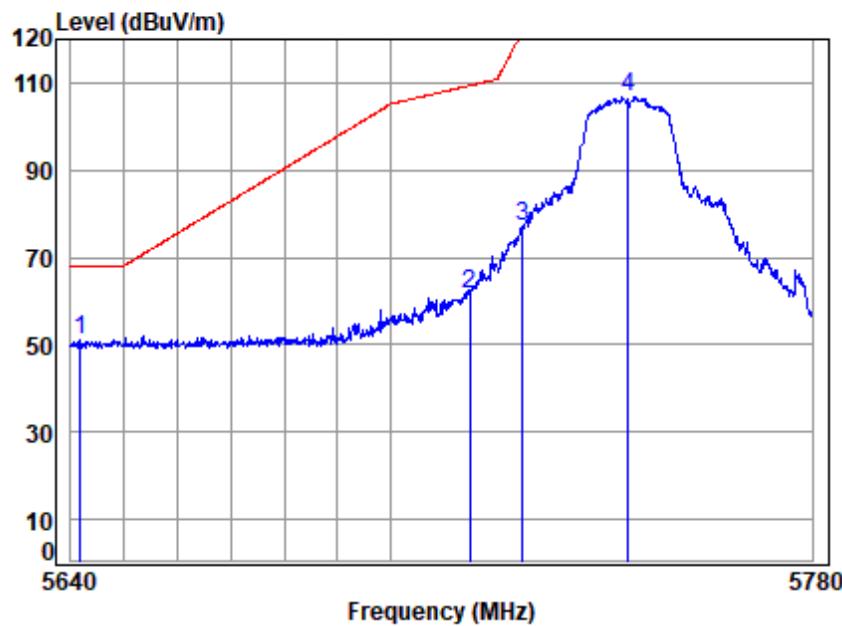
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5745 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5641.798	6.04	34.45	35.07	45.91	51.33	68.20	-16.87 peak
2 5715.000	6.05	34.27	35.03	56.49	61.78	109.40	-47.62 peak
3 5725.000	6.06	34.25	35.03	71.84	77.12	122.20	-45.08 peak
4 5745.000	6.06	34.21	35.02	101.59	106.84	-----	----- peak

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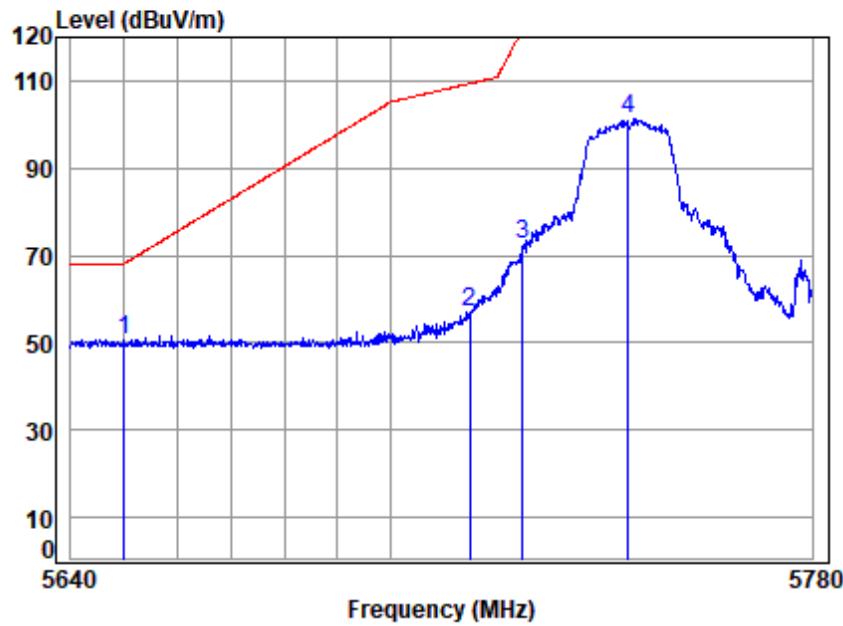
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5745 Band edge
: 5G WIFI 11A

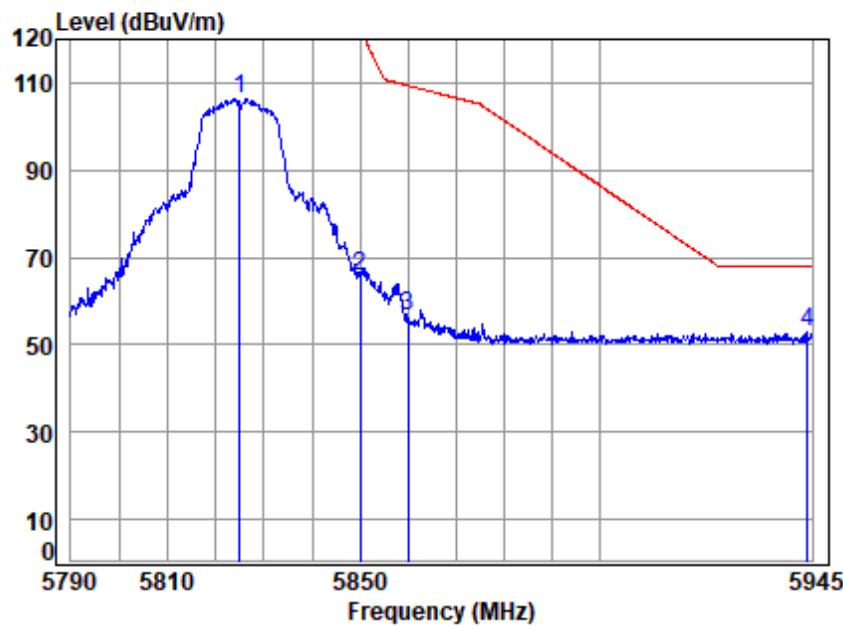
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5649.966	6.04	34.40	35.06	45.48	50.86	68.20	-17.34 peak
2 5715.000	6.05	34.27	35.03	51.87	57.16	109.40	-52.24 peak
3 5725.000	6.06	34.25	35.03	67.23	72.51	122.20	-49.69 peak
4 5745.000	6.06	34.21	35.02	96.03	101.28	-----	----- peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5825 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	6.08	34.35	34.98	100.78	106.23	-----	peak
2 5850.000	6.09	34.40	34.97	60.05	65.57	122.20	-56.63 peak
3 5860.000	6.09	34.44	34.96	50.93	56.50	109.40	-52.90 peak
4 p 5944.058	6.11	34.69	34.93	47.04	52.91	68.20	-15.29 peak

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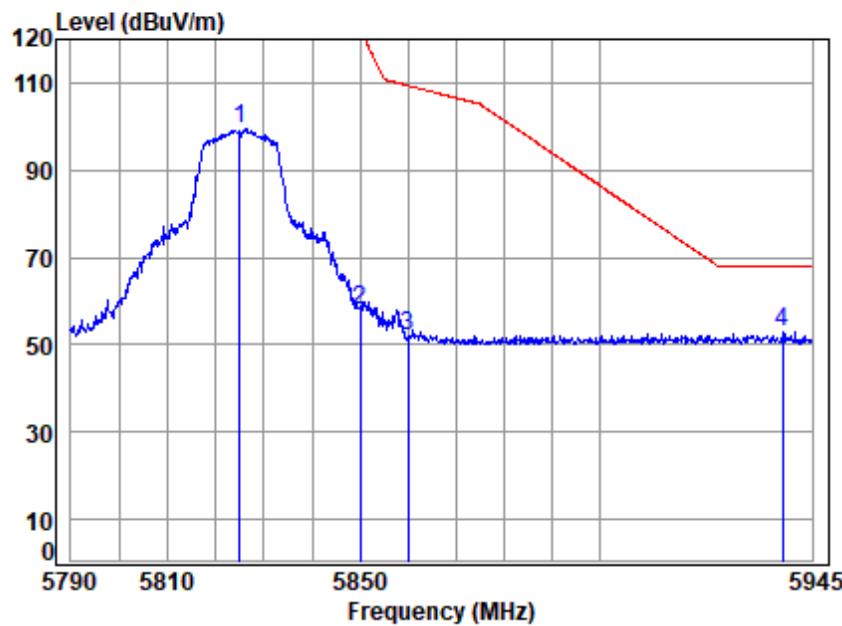
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5825 Band edge
: 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	6.08	34.35	34.98	93.84	99.29	-----	-----	peak
2 5850.000	6.09	34.40	34.97	52.58	58.10	122.20	-64.10	peak
3 5860.000	6.09	34.44	34.96	46.35	51.92	109.40	-57.48	peak
4 p 5938.721	6.11	34.68	34.93	47.06	52.92	68.20	-15.28	peak

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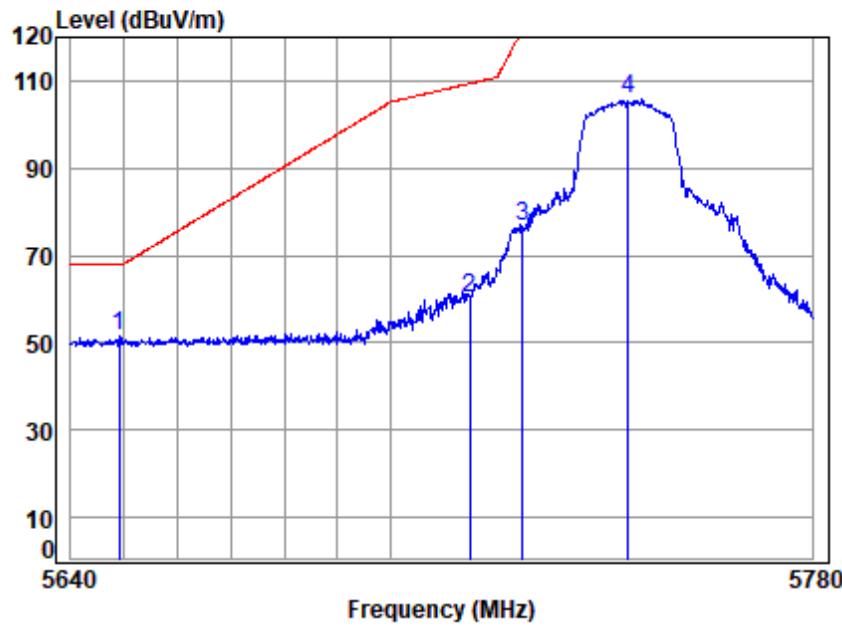
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5648.996	6.04	34.41	35.06	46.10	51.49	68.20	-16.71	peak
2 5715.000	6.05	34.27	35.03	55.05	60.34	109.40	-49.06	peak
3 5725.000	6.06	34.25	35.03	71.51	76.79	122.20	-45.41	peak
4 5745.000	6.06	34.21	35.02	100.39	105.64	-----	-----	peak

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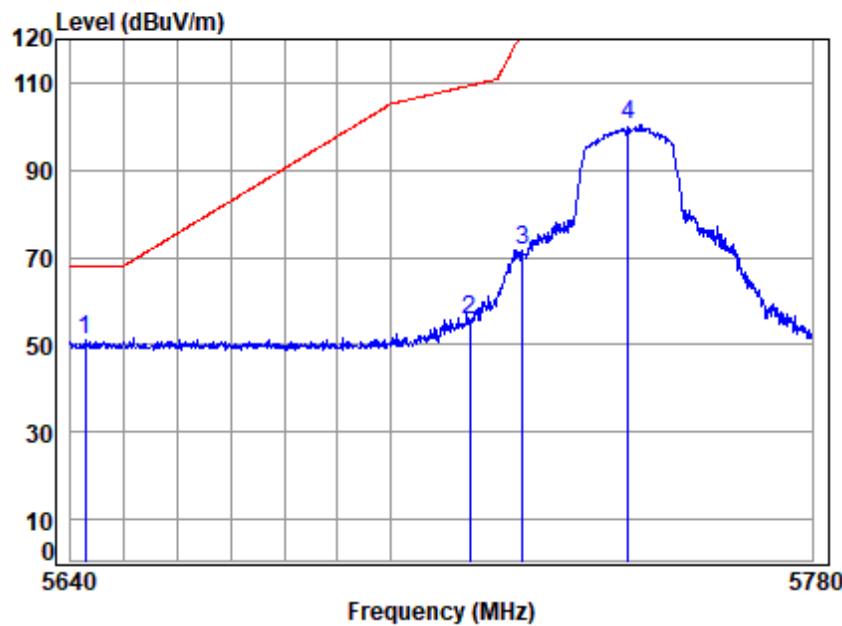
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

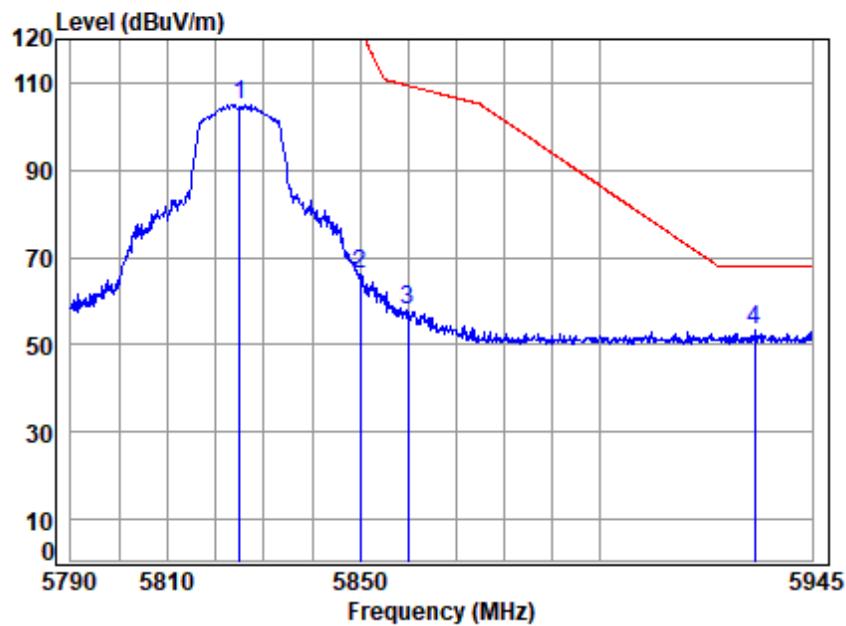
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Factor			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5642.628	6.04	34.44	35.07	45.59	51.00	68.20	-17.20 peak
2 5715.000	6.05	34.27	35.03	50.54	55.83	109.40	-53.57 peak
3 5725.000	6.06	34.25	35.03	66.37	71.65	122.20	-50.55 peak
4 5745.000	6.06	34.21	35.02	95.20	100.45	-----	----- peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	6.08	34.35	34.98	99.65	105.10	-----	-----	peak
2 5850.000	6.09	34.40	34.97	60.42	65.94	122.20	-56.26	peak
3 5860.000	6.09	34.44	34.96	52.48	58.05	109.40	-51.35	peak
4 p 5932.762	6.10	34.67	34.93	47.51	53.35	68.20	-14.85	peak

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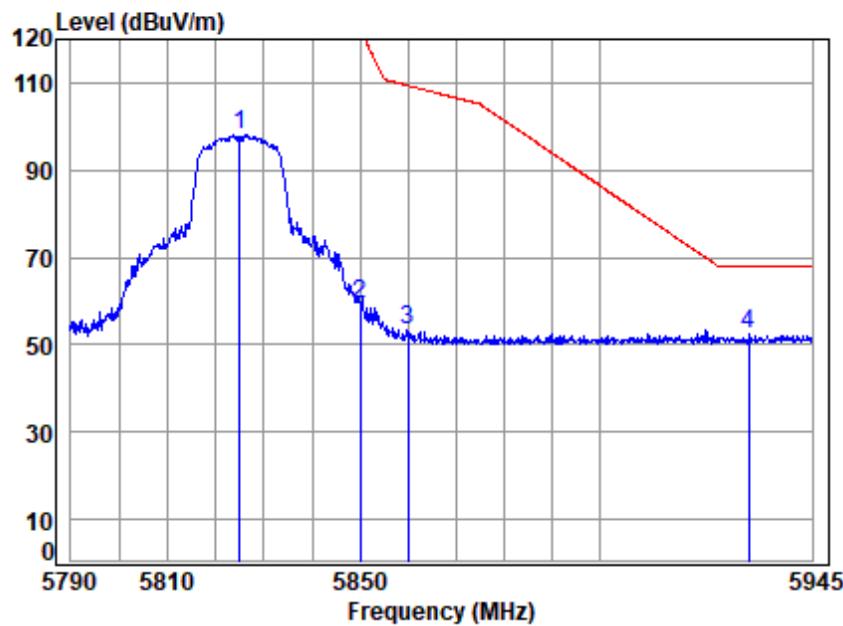
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	6.08	34.35	34.98	92.62	98.07	-----	-----	peak
2 5850.000	6.09	34.40	34.97	53.95	59.47	122.20	-62.73	peak
3 5860.000	6.09	34.44	34.96	47.78	53.35	109.40	-56.05	peak
4 p 5931.665	6.10	34.66	34.93	46.44	52.27	68.20	-15.93	peak

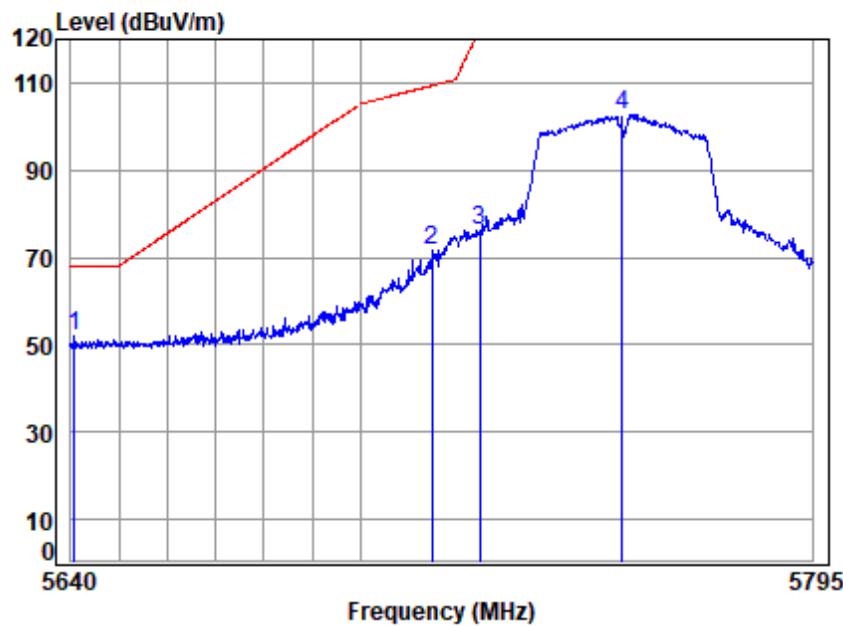
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5640.765	6.03	34.46	35.07	46.56	51.98	68.20	-16.22	peak
2 5715.000	6.05	34.27	35.03	66.37	71.66	109.40	-37.74	peak
3 5725.000	6.06	34.25	35.03	70.94	76.22	122.20	-45.98	peak
4 5755.000	6.06	34.21	35.01	97.46	102.72	-----	-----	peak

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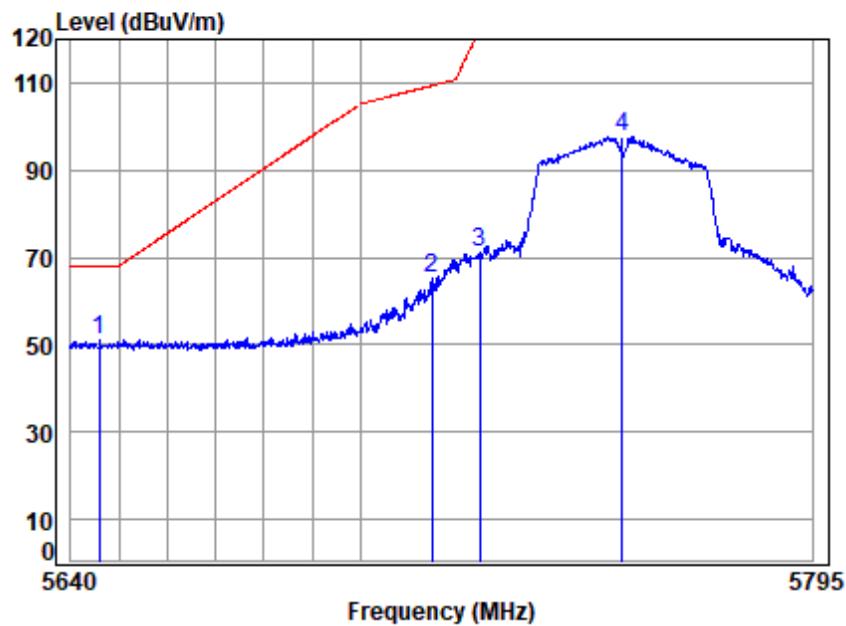
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5645.967	6.04	34.42	35.06	45.52	50.92	68.20	-17.28	peak
2 5715.000	6.05	34.27	35.03	59.77	65.06	109.40	-44.34	peak
3 5725.000	6.06	34.25	35.03	65.73	71.01	122.20	-51.19	peak
4 5755.000	6.06	34.21	35.01	92.34	97.60	-----	-----	peak

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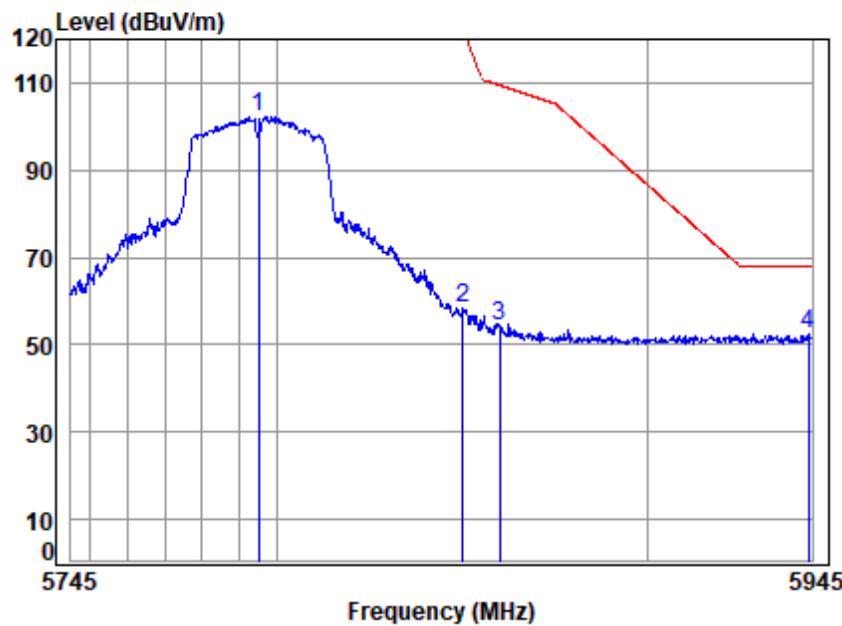
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	6.07	34.29	34.99	96.89	102.26	-----	-----	peak
2 5850.000	6.09	34.40	34.97	52.66	58.18	122.20	-64.02	peak
3 5860.000	6.09	34.44	34.96	48.55	54.12	109.40	-55.28	peak
4 p 5943.983	6.11	34.69	34.93	46.54	52.41	68.20	-15.79	peak

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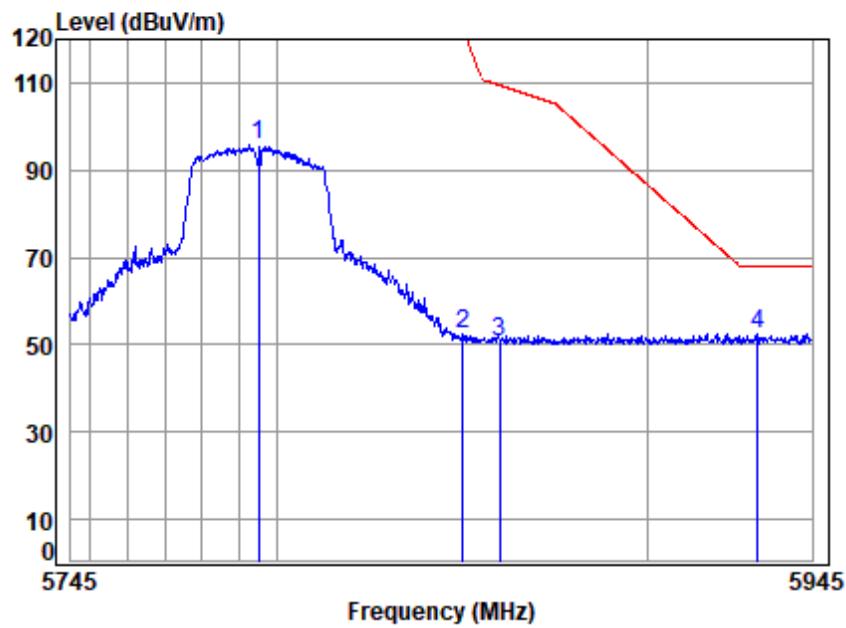
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	6.07	34.29	34.99	90.29	95.66	-----	-----	peak
2 5850.000	6.09	34.40	34.97	46.97	52.49	122.20	-69.71	peak
3 5860.000	6.09	34.44	34.96	44.96	50.53	109.40	-58.87	peak
4 p 5930.167	6.10	34.66	34.93	46.62	52.45	68.20	-15.75	peak

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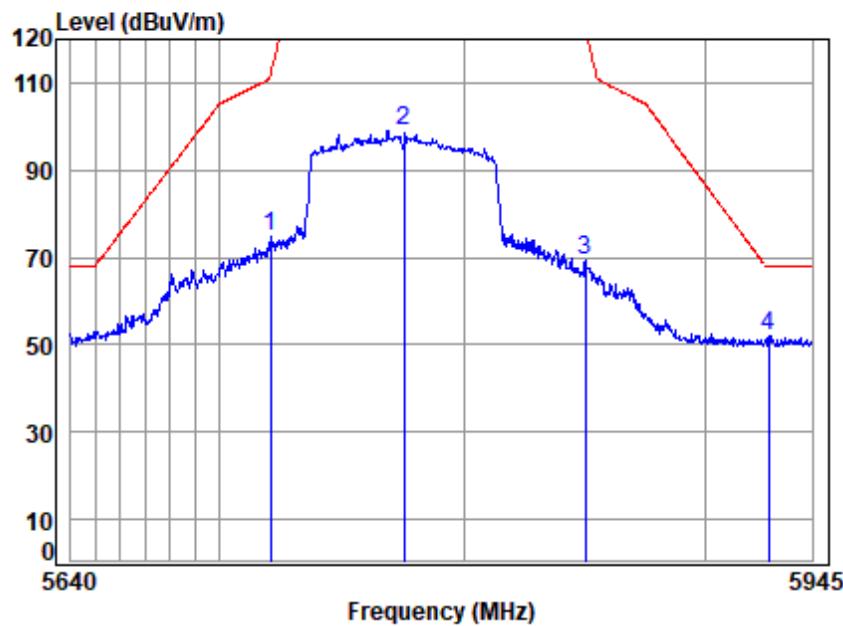
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02449AT/02450AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5720.773	6.05	34.26	35.03	69.35	74.63	112.56	-37.93	peak
2 5775.000	6.07	34.25	35.00	93.73	99.05	-----	-----	peak
3 5849.958	6.09	34.40	34.97	63.90	69.42	-----	-----	peak
4 p 5926.868	6.10	34.65	34.93	46.39	52.21	68.20	-15.99	peak

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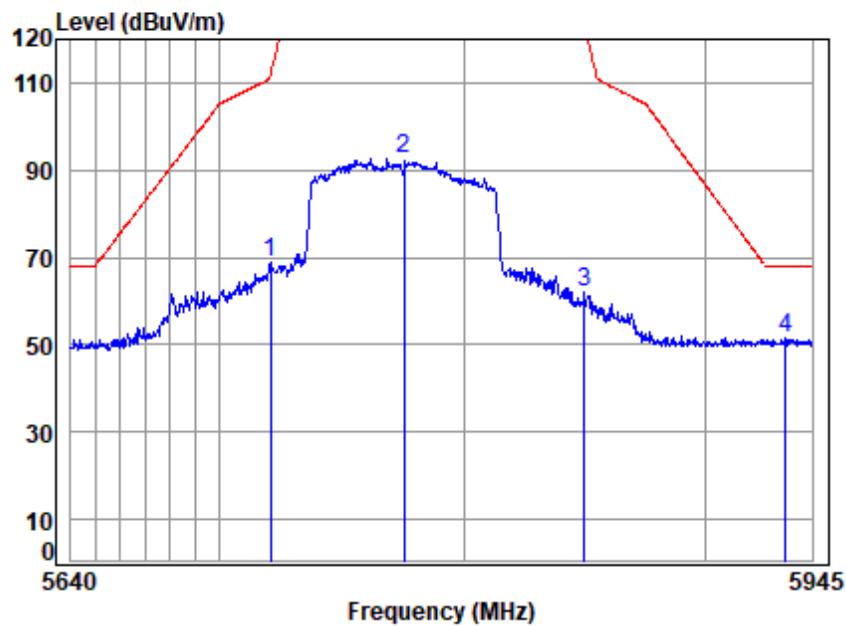
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02449AT/02450AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 5720.472	6.05	34.26	35.03	63.46	68.74	111.88	-43.14	peak
2 5775.000	6.07	34.25	35.00	87.21	92.53	-----	-----	peak
3 5849.650	6.09	34.40	34.97	56.33	61.85	-----	-----	peak
4 p 5933.739	6.10	34.67	34.93	45.65	51.49	68.20	-16.71	peak

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2406002449AT



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2406002449AT

- End of the Report -



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