

TEST REPORT

Application No.: SZCR2305001663AT
Applicant: DT Research, Inc.
Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer: DT Research, Inc.
Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA
Factory: DT Research, Inc. Taiwan Branch
Address of Factory: 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):
EUT Name: Rugged Tablet
Model No.: DT313Y, DT313xxxx(x= 0-9, A-Z, - or null, or .,or /)
• Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:

FCC ID: YE3600-AX210NG
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2023-05-29
Date of Test: 2023-06-06 to 2023-06-12
Date of Issue: 2023-06-19

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

Keny Xu
EMC Laboratory Manager



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

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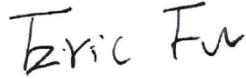
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-06-19		Original

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

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2 Test Summary

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

Remark:

Model No.: DT313Y, DT313xxxx(x= 0-9, A-Z, - or null, or .,or /)

Only the model DT313Y was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600-AX210NG, Granted on 05/06/2022.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID: PD9AX210NG was performed with an antenna of higher gain, and the antenna was connected to the module in an open environment. The current host platform under application is used a new antenna of the same type and a different gain than the original certified module, and it is installed inside the host platform enclosure.

Also, the band above 6GHz(5925-7125MHz) is blocked by the software for the module, and it is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model DT313Y and shown the data in this report.



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4 General Information**4.1 Details of E.U.T.**

Power supply:	AC Adapter Model: A18-065N3A Input: AC 100-240V, 1.7A, 50/60Hz Output: DC 19.0V, 3.42A, 65.0W Rechargeable Lithium-Ion Polymer Battery(Main Battery) Model: ACC-006-60K(3ICP9/36/115) Rated Capacity: 85400mAh Voltage: DC 11.4V Watt-Hour: 61.56Wh Max Charge Voltage: 13.05V Rechargeable Lithium-Ion Battery(Backup Battery) Model: PT352044 Rated Capacity: 250mAh Voltage: DC 3.7V Watt-Hour: 0.93Wh			
Cable(s):	DC cable: 175cm with a ferrite core			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n/ac/ax(HT20)	5180-5240	4
		802.11n/ac/ax(HT40)	5190-5230	2
		802.11ac/ax(HT80)	5210	1
		802.11ac/ax(HT160)	5250	1
	UNII Band II-A	802.11a/n/ac/ax(HT20)	5260-5320	4
		802.11n/ac/ax(HT40)	5270-5310	2
		802.11ac/ax(HT80)	5290	1
	UNII Band II-C	802.11a/n/ac/ax(HT20)	5500-5720	12
		802.11n/ac/ax(HT40)	5510-5710	6
		802.11ac/ax(HT80)	5530-5690	3
		802.11ac/ax(HT160)	5570	1
	UNII Band III	802.11a/n/ac/ax(HT20)	5745-5865	7
		802.11n/ac/ax(HT40)	5755-5835	3
		802.11ac/ax(HT80)	5775	1
Modulation Type:	802.11a: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM(QPSK, BPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA(QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			





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DFS Function:	Slave without radar detection
TPC Function:	Not support
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 3.2dBi, Antenna2: 3.8dBi Note: MIMO for Antenna1 and Antenna2.

Channel list for 802.11a/n/ac/ax(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	60	5300MHz	120	5600MHz	149	5745MHz
40	5200MHz	64	5320MHz	124	5620MHz	153	5765MHz
44	5220MHz	100	5500MHz	128	5640MHz	157	5785MHz
48	5240MHz	104	5520MHz	132	5660MHz	161	5805MHz
52	5260MHz	108	5540MHz	136	5680MHz	165	5825MHz
56	5280MHz	112	5560MHz	140	5700MHz	169	5845MHz
/		116	5580MHz	144	5720MHz	169	5845MHz

Channel list for 802.11n/ac/ax(HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	62	5310MHz	118	5590MHz	142	5710MHz
46	5230MHz	102	5510MHz	126	5630MHz	151	5755MHz
54	5270MHz	110	5550MHz	134	5670MHz	159	5795MHz
			/			167	5835MHz

Channel list for 802.11ac/ax(HT80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	106	5530MHz	138	5690MHz		/
58	5290MHz	122	5610MHz	155	5775MHz		

Channel list for 802.11ac/ax(HT160)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250MHz	114	5570MHz			/	

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4.2 Description of Support Units

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

4.3 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

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



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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

- **VCCI (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	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07
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	2023-03-20	2024-03-19

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07



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Radiated Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22

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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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna connector is a IPEX type that comply with Part15.203, the best case gain of the antenna1 is 3.2dBi, Antenna2: 3.8dBi.

Antenna location: Refer to internal photo.

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: 22.6 °C Humidity: 50.1 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	Charge+TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	17	Charge+TX mode (U-NII-2A)_Keep the EUT in chanrging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	19	Charge+TX mode (U-NII-2C)_Keep the EUT in charging and continuously

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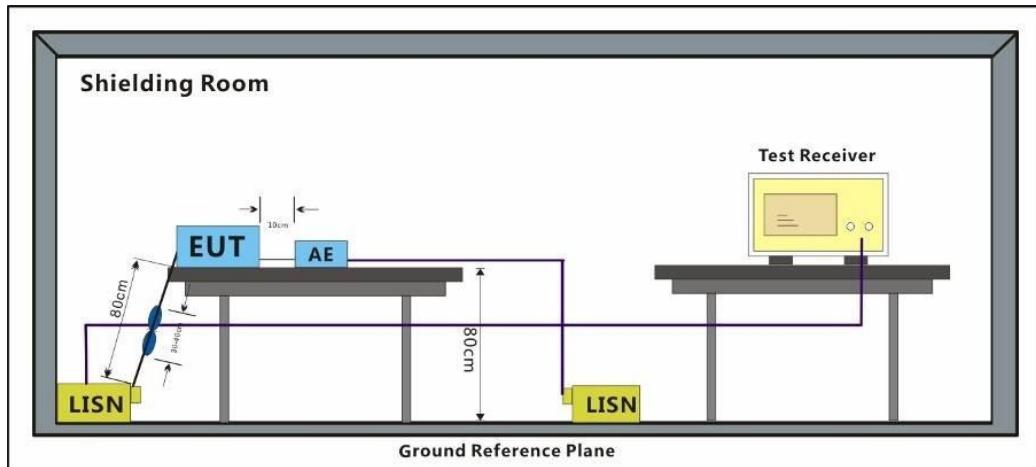
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		transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	21	Charge+TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

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

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



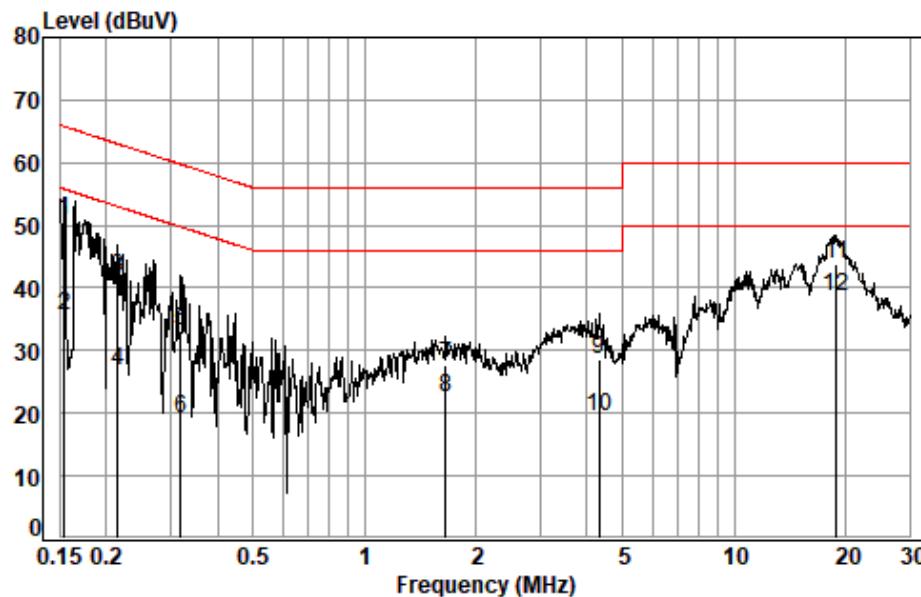
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Test Mode: 15; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 01663AT

Test mode: 15

Freq	Cable	LISN	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Level	Level		
1 *	0.1540	0.03	9.63	41.24	50.90	65.78	-14.88 QP
2	0.1540	0.03	9.63	26.01	35.67	55.78	-20.11 Average
3	0.2151	0.04	9.62	32.10	41.76	63.01	-21.25 QP
4	0.2151	0.04	9.62	17.17	26.83	53.01	-26.18 Average
5	0.3183	0.05	9.62	23.57	33.24	59.75	-26.51 QP
6	0.3183	0.05	9.62	9.45	19.12	49.75	-30.63 Average
7	1.6625	0.10	9.63	18.03	27.76	56.00	-28.24 QP
8	1.6625	0.10	9.63	12.68	22.41	46.00	-23.59 Average
9	4.3146	0.14	9.66	18.78	28.58	56.00	-27.42 QP
10	4.3146	0.14	9.66	9.75	19.55	46.00	-26.45 Average
11	18.9205	0.26	9.92	33.56	43.74	60.00	-16.26 QP
12 *	18.9205	0.26	9.92	28.60	38.78	50.00	-11.22 Average

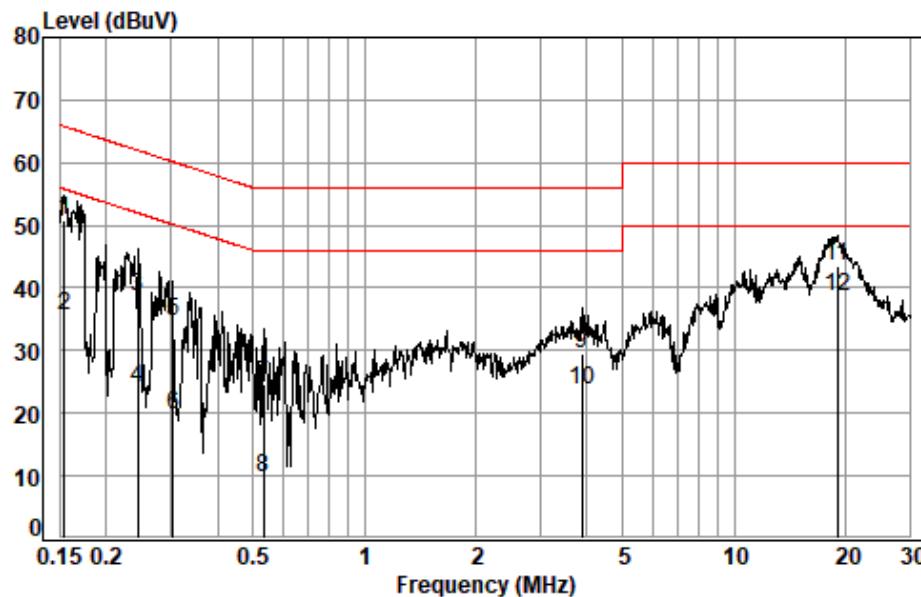
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Test Mode: 15; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 01663AT
 Test mode: 15

Freq	Cable	LISN	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Level	Level	Line	dB
1 *	0.1540	0.03	9.62	41.14	50.79	65.78	-14.99 QP
2	0.1540	0.03	9.62	25.85	35.50	55.78	-20.28 Average
3	0.2442	0.04	9.62	29.00	38.66	61.95	-23.29 QP
4	0.2442	0.04	9.62	14.40	24.06	51.95	-27.89 Average
5	0.3035	0.04	9.62	24.88	34.54	60.15	-25.61 QP
6	0.3035	0.04	9.62	10.26	19.92	50.15	-30.23 Average
7	0.5322	0.06	9.62	14.87	24.55	56.00	-31.45 QP
8	0.5322	0.06	9.62	0.01	9.69	46.00	-36.31 Average
9	3.8808	0.14	9.67	19.76	29.57	56.00	-26.43 QP
10	3.8808	0.14	9.67	13.86	23.67	46.00	-22.33 Average
11	19.0210	0.26	10.10	33.24	43.60	60.00	-16.40 QP
12 *	19.0210	0.26	10.10	28.35	38.71	50.00	-11.29 Average



7.2 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 60.2 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	14	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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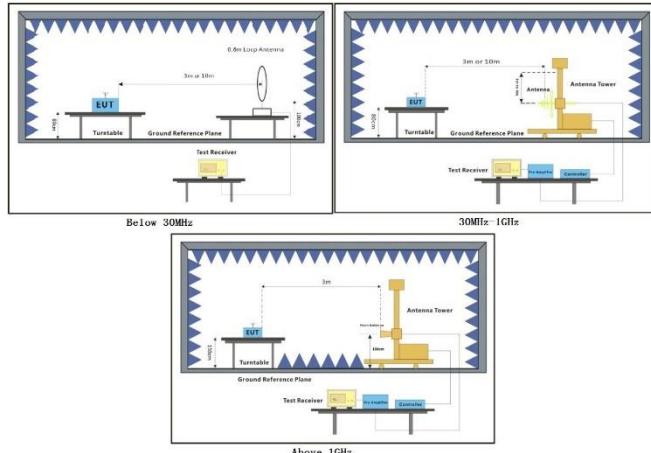
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		recorded in the report.
Final test	19	Charge+TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	20	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	21	Charge+TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

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

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

Remark 2: 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 widest bandwidth which can be covered the same channel (center frequency) on modes with narrower bandwidth that have the same or lower output power for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

Remark 3: All modes and channels have been tested, only record the worst test result.

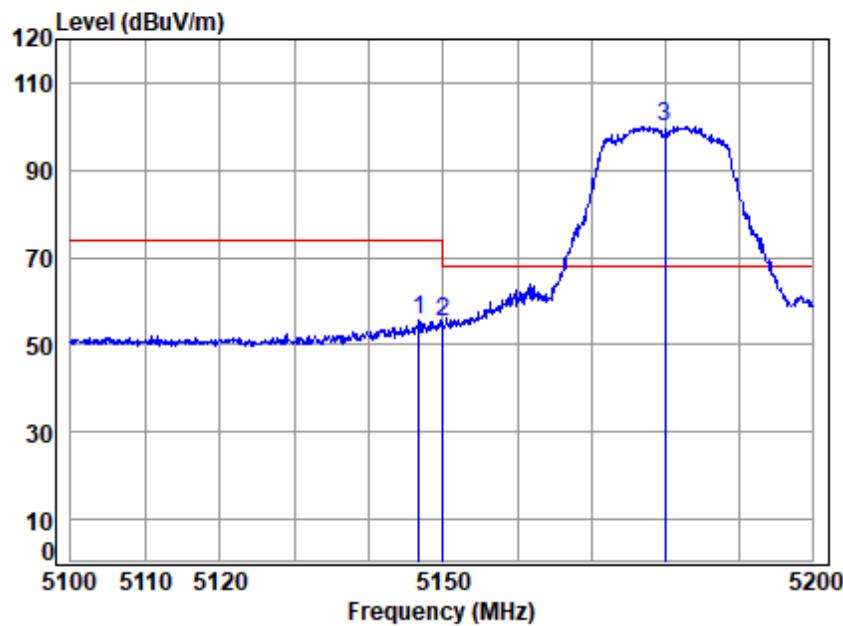


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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
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
1	5146.76	7.36	34.01	34.99	49.29	55.67	74.00 -18.33 peak
2	5149.98	7.36	34.00	34.99	48.67	55.04	74.00 -18.96 peak
3 q	5180.00	7.39	34.00	34.99	93.64	100.04	68.20 31.84 peak

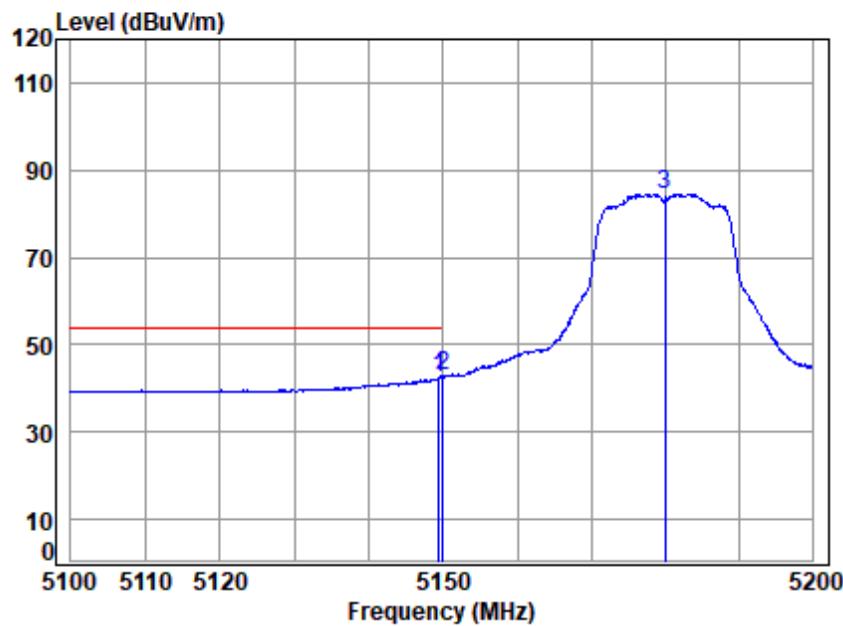
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
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
1	5149.46	7.36	34.00	34.99	36.02	42.39	54.00 -11.61 Average
2 q	5149.98	7.36	34.00	34.99	36.51	42.88	54.00 -11.12 Average
3	5180.00	7.39	34.00	34.99	78.23	84.63	----- ----- Average

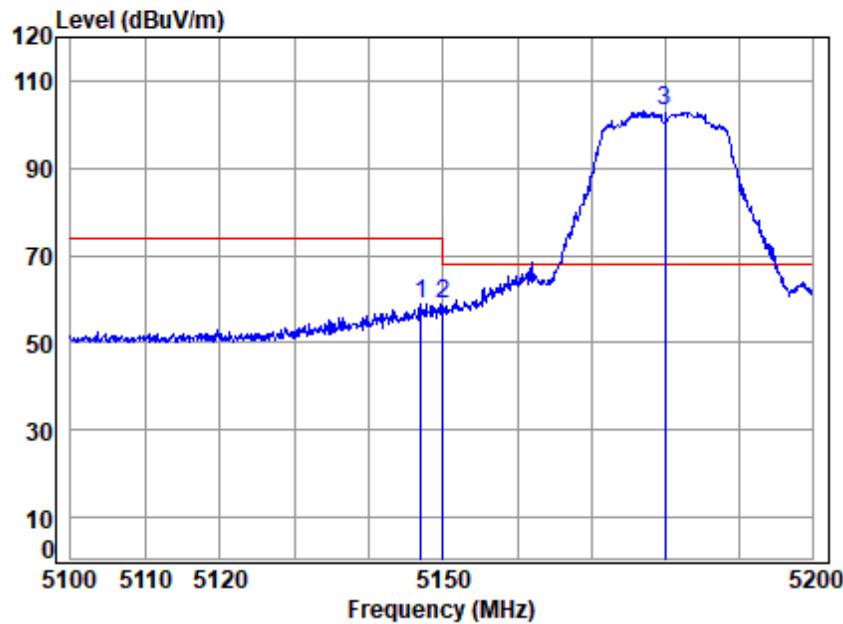
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
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
1	5146.96	7.36	34.01	34.99	52.50	58.88	74.00 -15.12 Peak
2	5149.98	7.36	34.00	34.99	52.41	58.78	74.00 -15.22 Peak
3 q	5180.00	7.39	34.00	34.99	96.49	102.89	68.20 34.69 Peak



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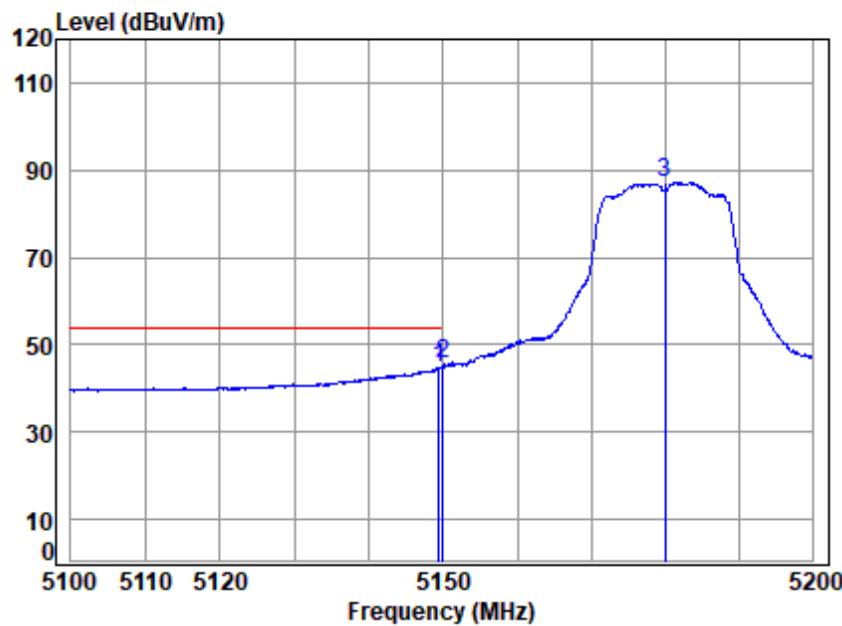
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
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	5149.46	7.36	34.00	34.99	38.50	44.87	54.00 -9.13 Average
2 q	5149.98	7.36	34.00	34.99	39.11	45.48	54.00 -8.52 Average
3	5180.00	7.39	34.00	34.99	80.86	87.26	----- ----- Average

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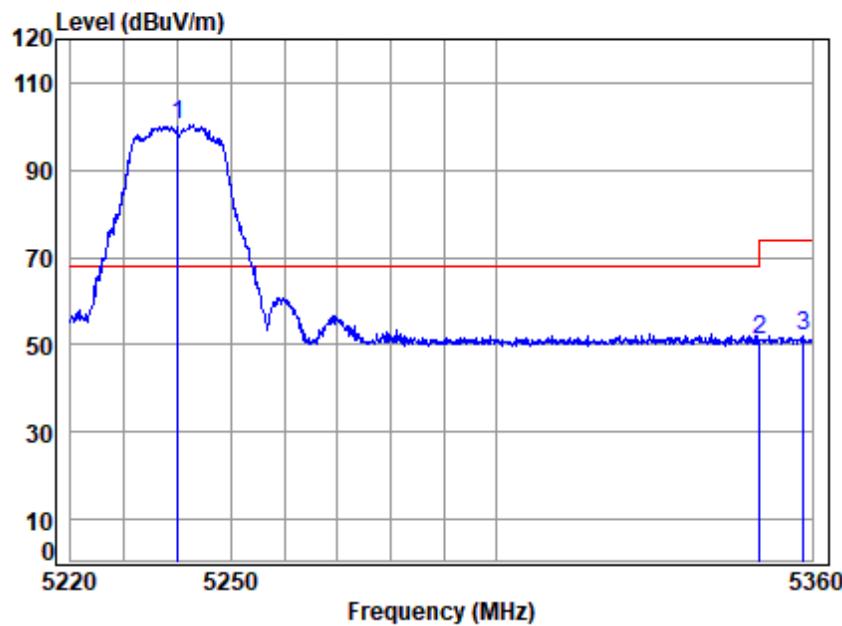
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
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 q 5240.00	7.45	34.00	35.00	94.07	100.52	68.20	32.32	peak
2 5350.02	7.56	34.30	35.00	44.30	51.16	74.00	-22.84	peak
3 5358.44	7.57	34.33	35.00	45.15	52.05	74.00	-21.95	peak



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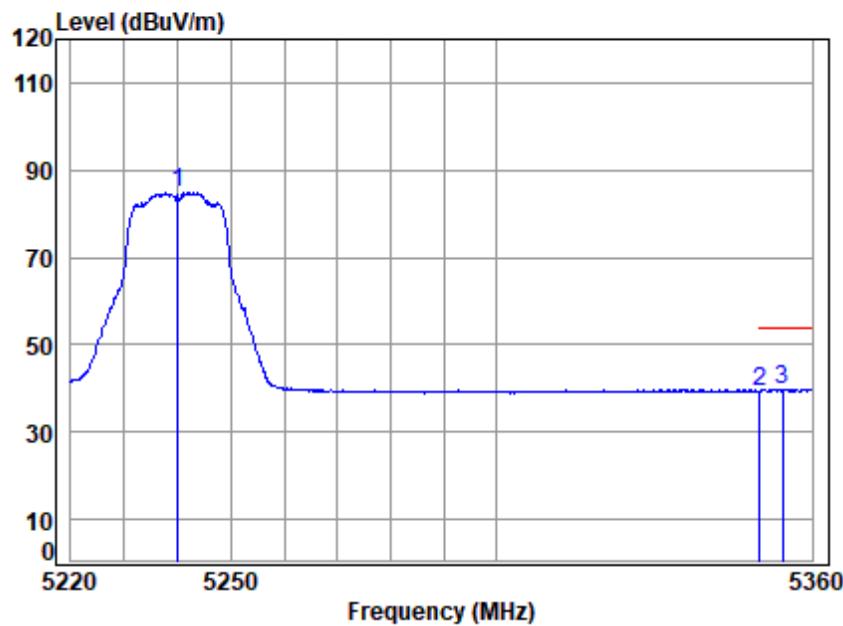
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
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 5240.00	7.45	34.00	35.00	78.31	84.76	-----	-----	Average
2 5350.02	7.56	34.30	35.00	32.61	39.47	54.00	-14.53	Average
3 q 5354.33	7.57	34.32	35.00	32.83	39.72	54.00	-14.28	Average

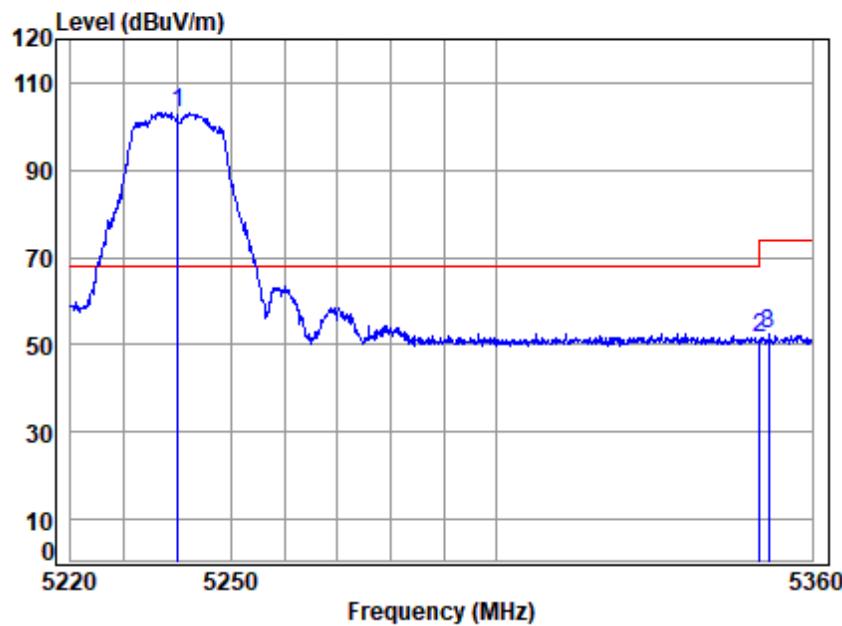
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
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 q 5240.00	7.45	34.00	35.00	96.74	103.19	68.20	34.99	Peak
2 5350.02	7.56	34.30	35.00	44.69	51.55	74.00	-22.45	Peak
3 5351.78	7.56	34.31	35.00	45.53	52.40	74.00	-21.60	Peak

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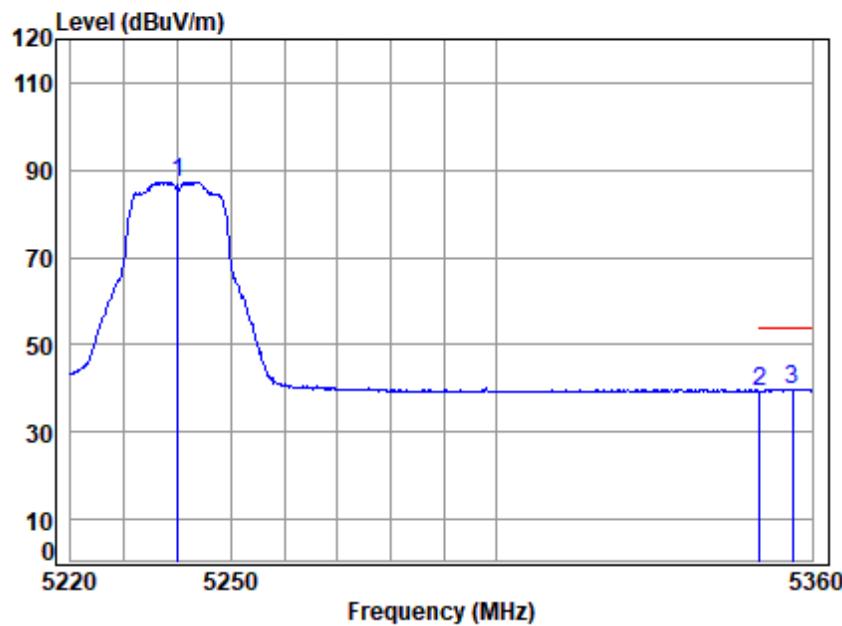
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Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

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 5240.00	7.45	34.00	35.00	80.88	87.33	-----	-----	Average
2 5350.02	7.56	34.30	35.00	32.60	39.46	54.00	-14.54	Average
3 q 5356.31	7.57	34.33	35.00	32.82	39.72	54.00	-14.28	Average

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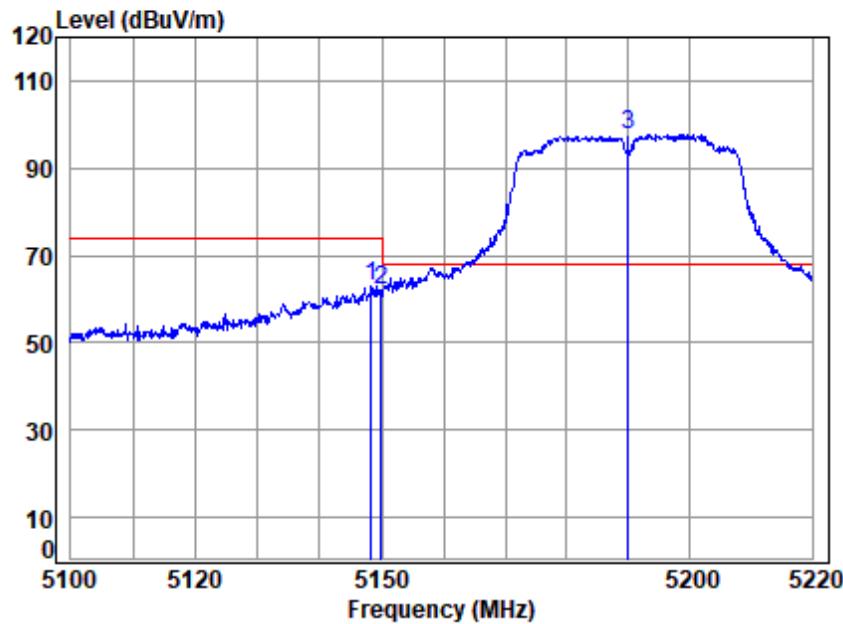
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5190 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	5148.26	7.36	34.00	34.99	56.42	62.79	74.00	-11.21 peak
2	5149.98	7.36	34.00	34.99	55.61	61.98	74.00	-12.02 peak
3 q	5190.00	7.40	34.00	34.99	91.24	97.65	68.20	29.45 peak

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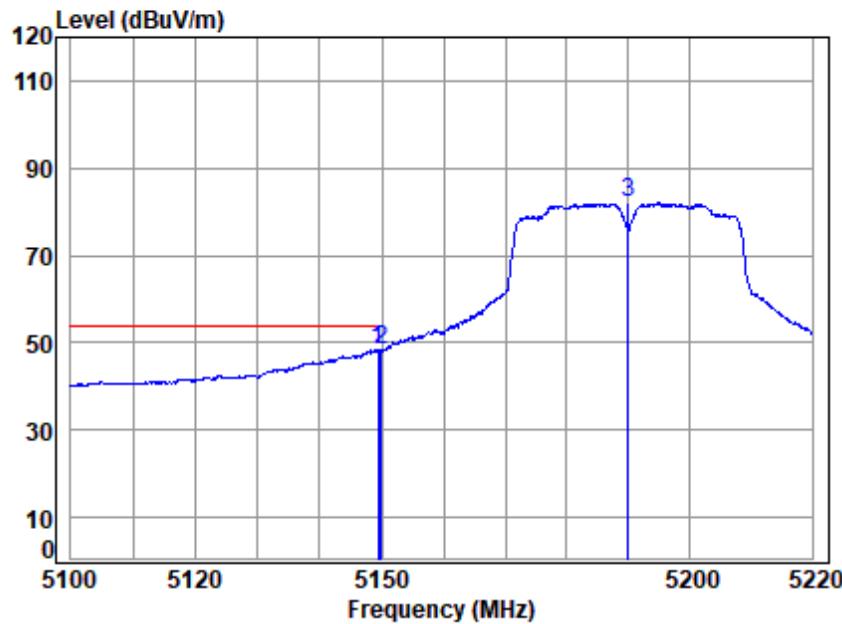
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5190 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	5149.46	7.36	34.00	34.99	41.88	48.25	54.00	-5.75 Average
2 q	5149.98	7.36	34.00	34.99	42.11	48.48	54.00	-5.52 Average
3	5190.00	7.40	34.00	34.99	75.60	82.01	-----	----- Average

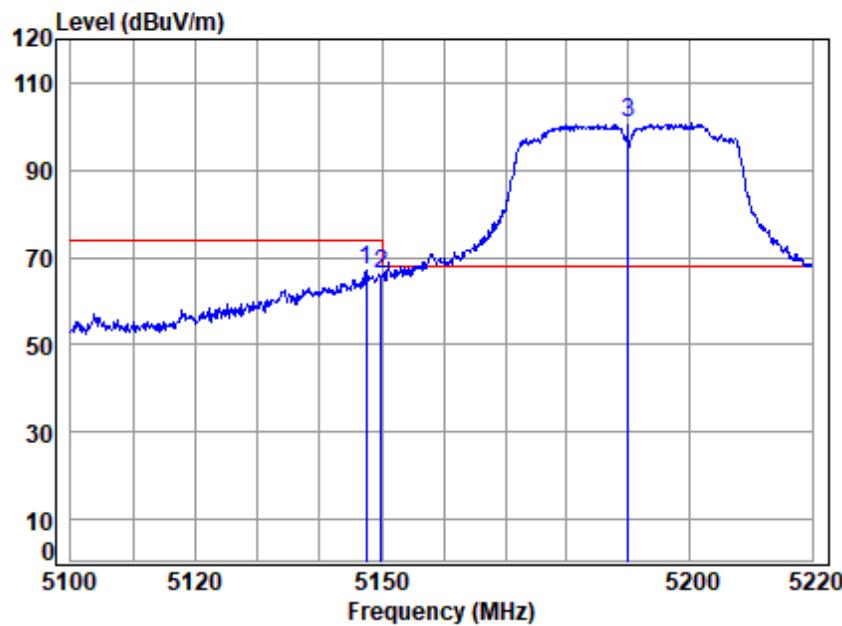
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5147.43	7.36	34.01	34.99	60.57	66.95	74.00 -7.05 Peak
2	5149.98	7.36	34.00	34.99	59.57	65.94	74.00 -8.06 Peak
3 q	5190.00	7.40	34.00	34.99	94.35	100.76	68.20 32.56 Peak

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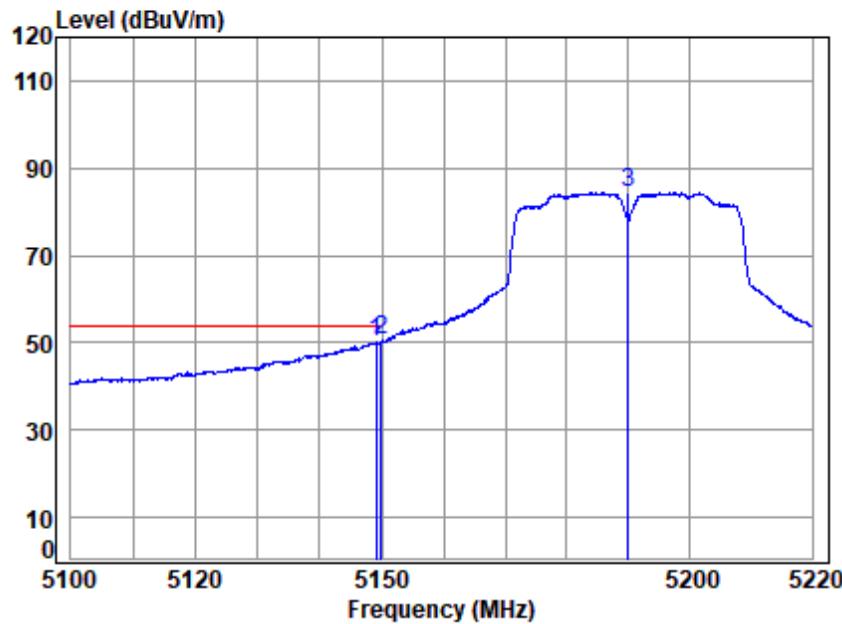
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
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	5149.10	7.36	34.00	34.99	43.86	50.23	54.00	-3.77 Average
2 q	5149.98	7.36	34.00	34.99	44.10	50.47	54.00	-3.53 Average
3	5190.00	7.40	34.00	34.99	77.94	84.35	-----	----- Average

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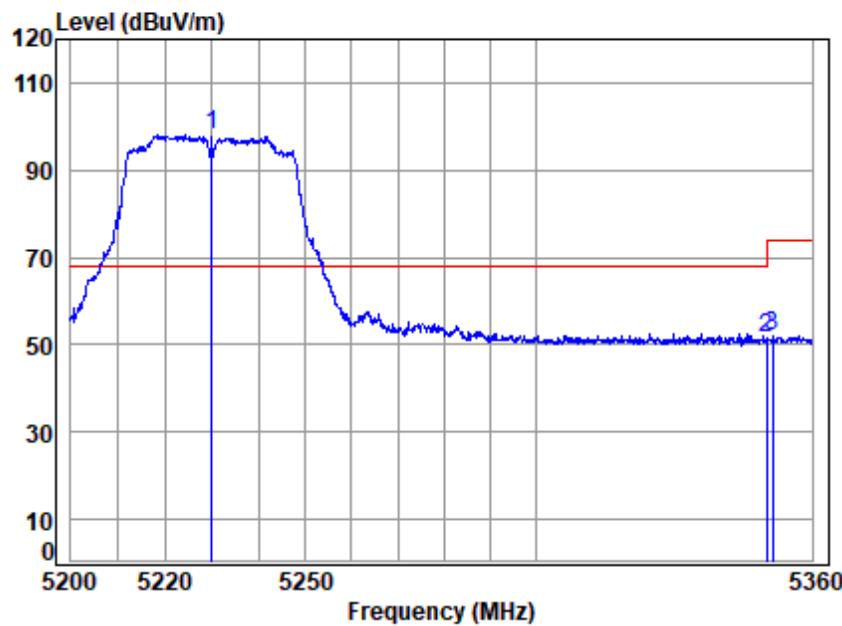
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
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 q 5230.00	7.44	34.00	34.99	91.73	98.18	68.20	29.98	peak
2 5350.02	7.56	34.30	35.00	44.87	51.73	74.00	-22.27	peak
3 5351.40	7.56	34.31	35.00	45.24	52.11	74.00	-21.89	peak



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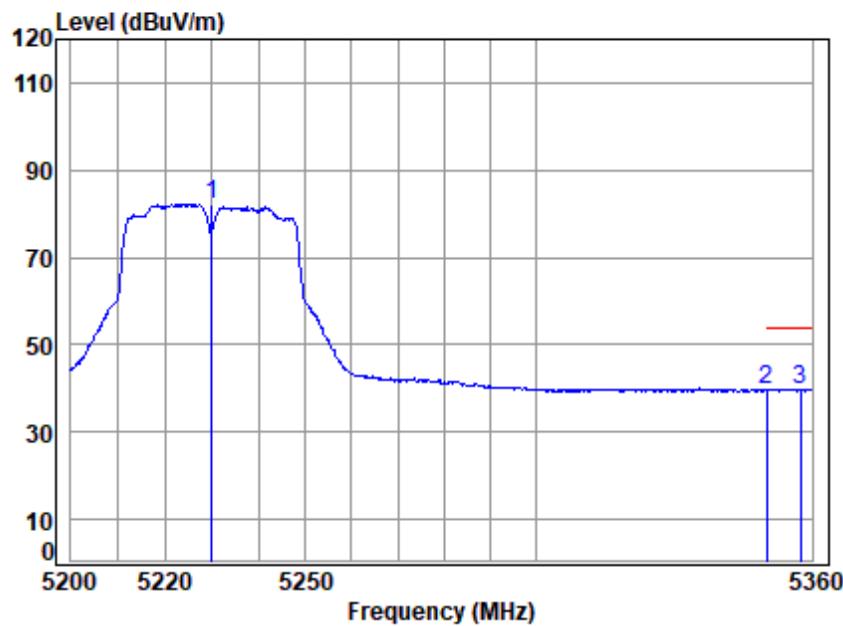
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
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
1 5230.00	7.44	34.00	34.99	75.83	82.28	-----	Average
2 5350.02	7.56	34.30	35.00	32.82	39.68	54.00	-14.32 Average
3 q 5357.56	7.57	34.33	35.00	32.84	39.74	54.00	-14.26 Average

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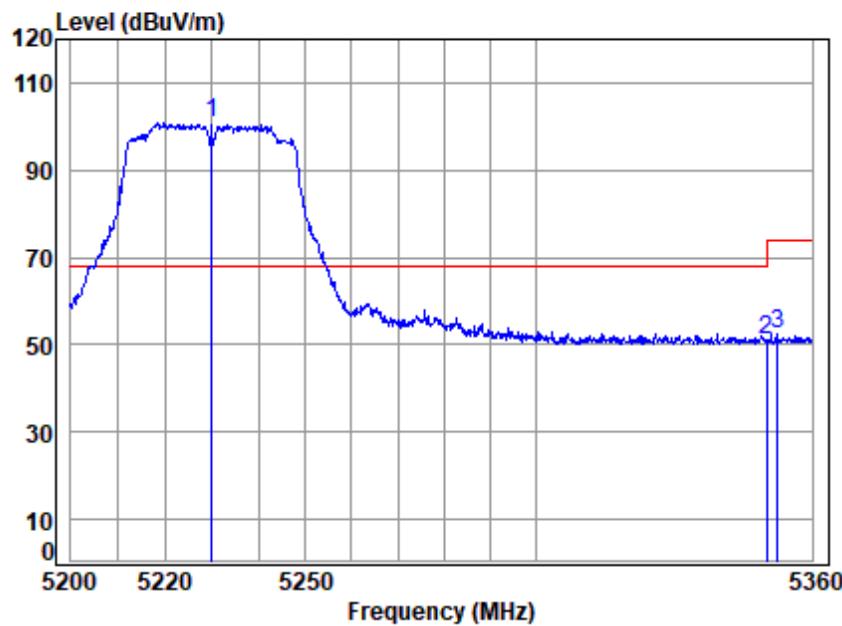
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



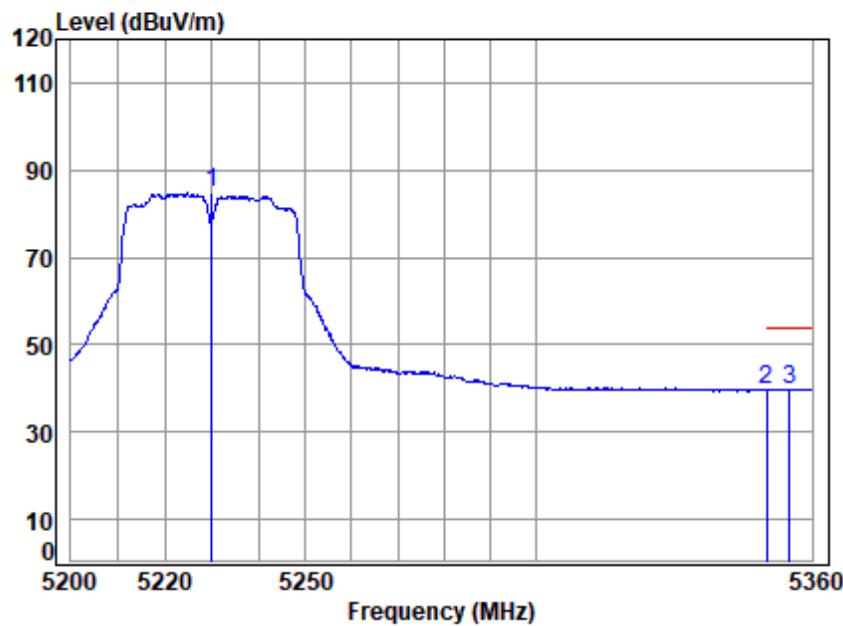
Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

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
1 q 5230.00	7.44	34.00	34.99	94.39	100.84	68.20	32.64 Peak
2 5350.02	7.56	34.30	35.00	44.47	51.33	74.00	-22.67 Peak
3 5352.53	7.57	34.31	35.00	45.53	52.41	74.00	-21.59 Peak

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Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
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 5230.00	7.44	34.00	34.99	78.24	84.69	-----	-----	Average
2 5350.02	7.56	34.30	35.00	32.69	39.55	54.00	-14.45	Average
3 q 5355.13	7.57	34.32	35.00	32.96	39.85	54.00	-14.15	Average

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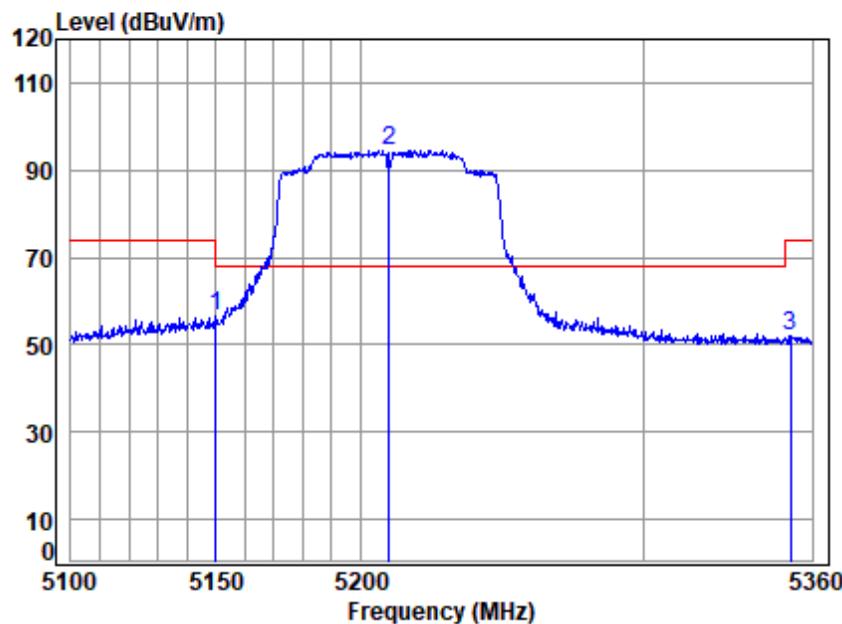
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 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	5149.95	7.36	34.00	34.99	50.09	56.46	74.00 -17.54 peak
2 q	5210.00	7.42	34.00	34.99	88.17	94.60	68.20 26.40 peak
3	5352.28	7.56	34.31	35.00	45.34	52.21	74.00 -21.79 peak

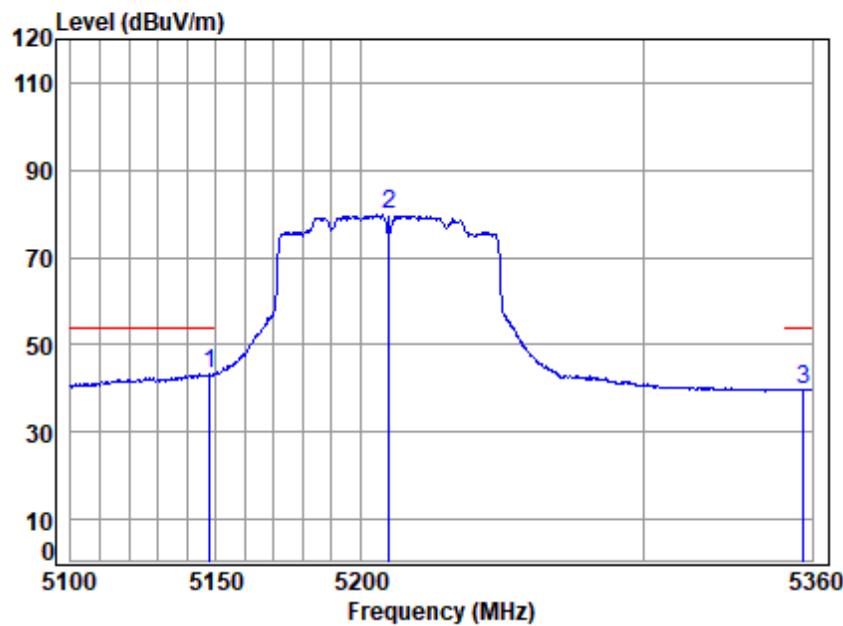
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 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					
1 q 5147.64	7.36	34.00	34.99	37.06	43.43	54.00	-10.57 Average
2 5210.00	7.42	34.00	34.99	73.28	79.71	-----	----- Average
3 5357.07	7.57	34.33	35.00	32.95	39.85	54.00	-14.15 Average

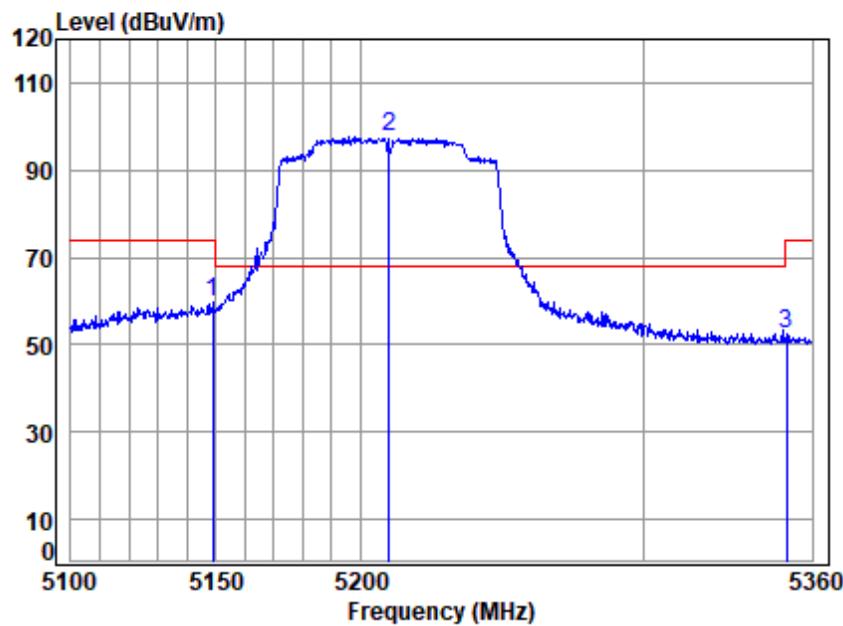
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



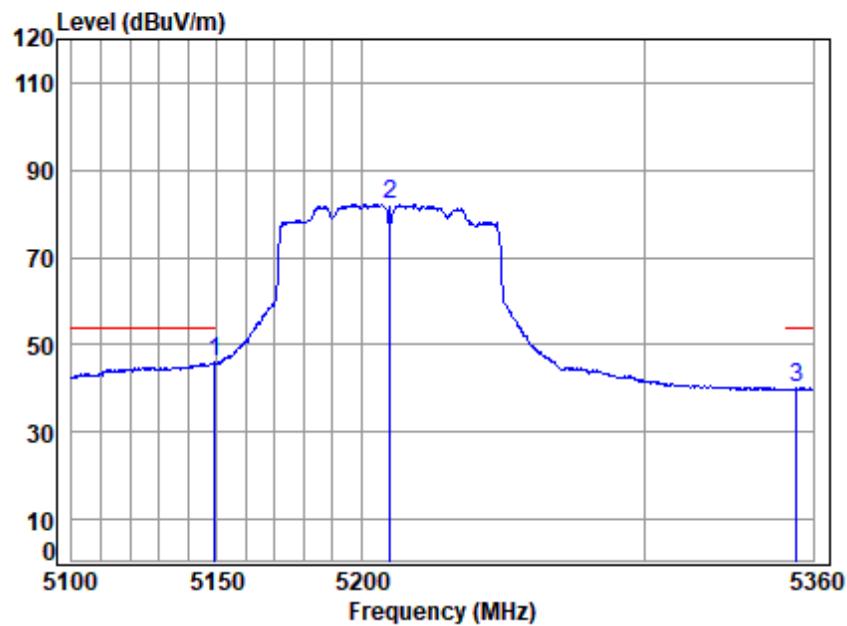
Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5210 Band edge
 : 5G WIFI 11AC80

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	5148.92	7.36	34.00	34.99	53.24	59.61	74.00	-14.39	Peak
2 q	5210.00	7.42	34.00	34.99	91.12	97.55	68.20	29.35	Peak
3	5350.95	7.56	34.30	35.00	45.65	52.51	74.00	-21.49	Peak

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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	5149.18	7.36	34.00	34.99	39.55	45.92	54.00	-8.08	Average
2		5210.00	7.42	34.00	34.99	75.68	82.11	-----	-----	Average
3		5354.14	7.57	34.32	35.00	33.31	40.20	54.00	-13.80	Average

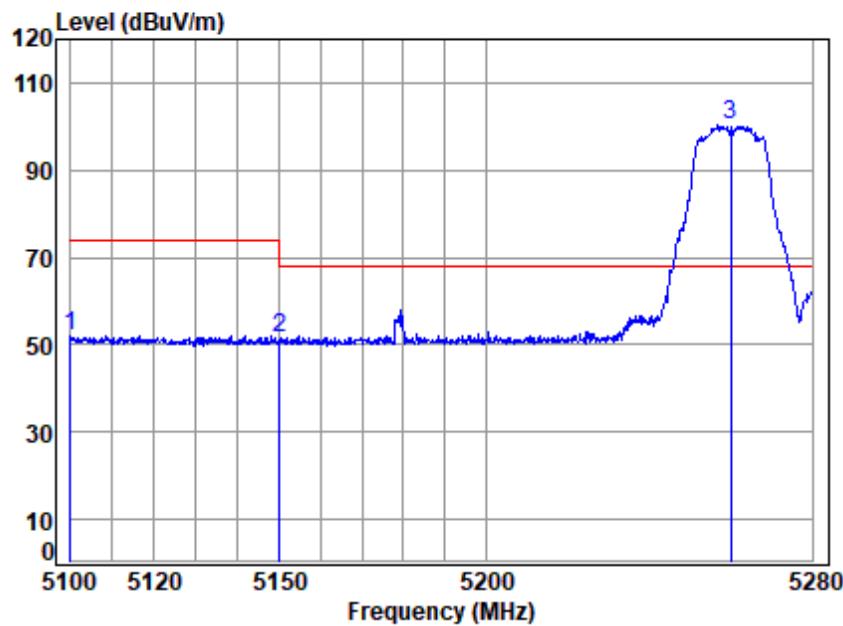
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e sgs-china@sgs.com



Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5260 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
1	5100.00	7.31	34.10	34.99	45.60	52.02	74.00 -21.98 peak
2	5149.98	7.36	34.00	34.99	45.34	51.71	74.00 -22.29 peak
3 q	5260.00	7.47	34.04	35.00	93.78	100.29	68.20 32.09 peak

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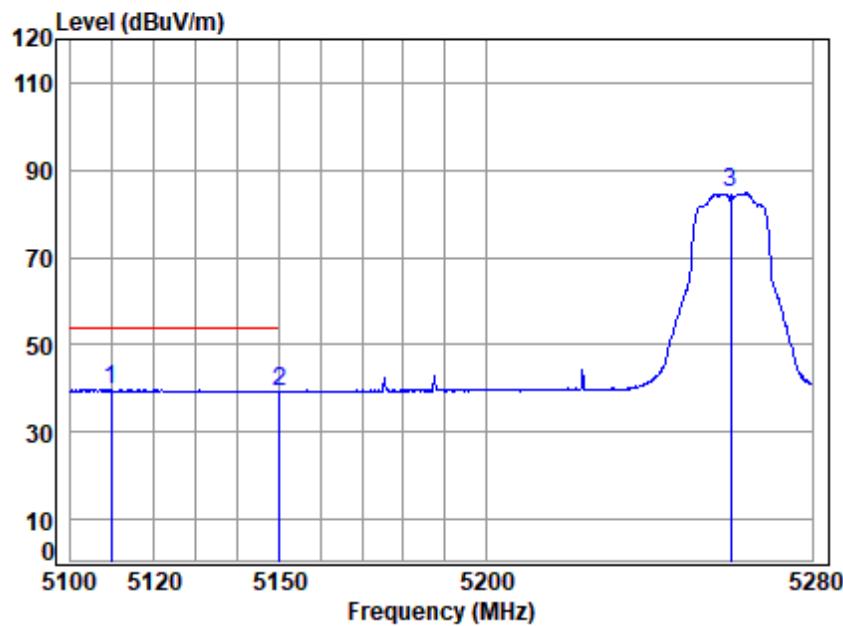
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5260 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 q 5109.74	7.32	34.08	34.99	33.39	39.80	54.00	-14.20 Average
2 5149.98	7.36	34.00	34.99	32.91	39.28	54.00	-14.72 Average
3 5260.00	7.47	34.04	35.00	78.39	84.90	-----	----- Average

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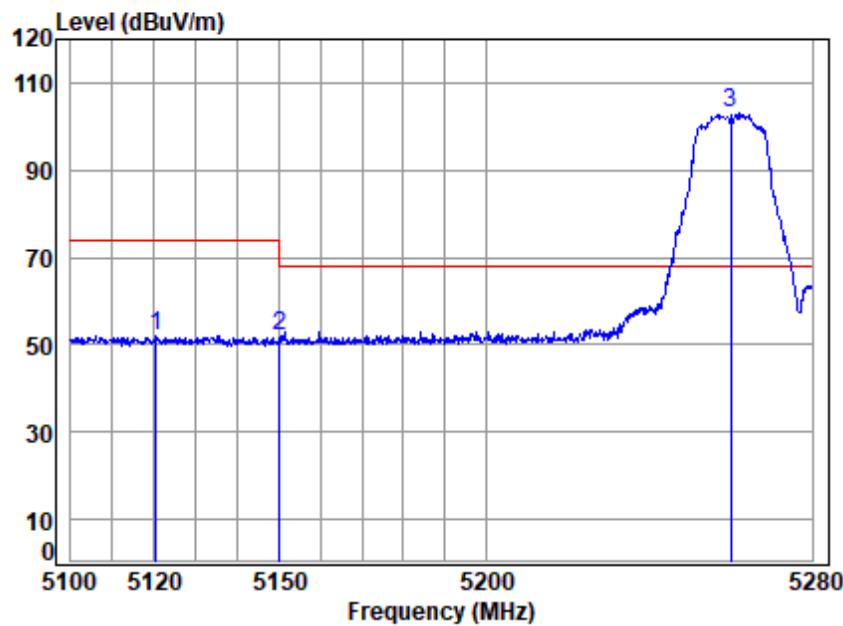
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5260 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	5120.38	7.33	34.06	34.99	45.81	52.21	74.00	-21.79 Peak
2	5149.98	7.36	34.00	34.99	45.66	52.03	74.00	-21.97 Peak
3 q	5260.00	7.47	34.04	35.00	96.40	102.91	68.20	34.71 Peak

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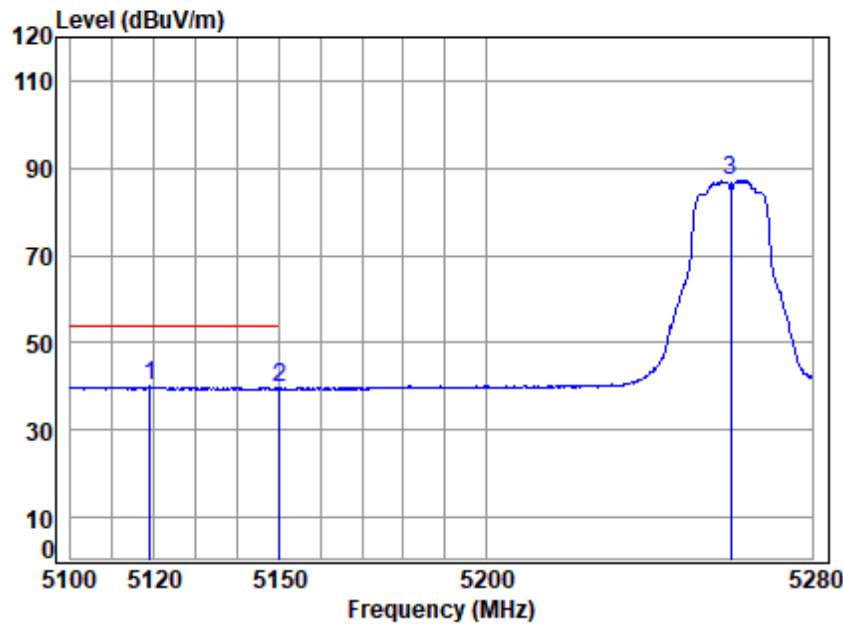
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5260 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 q 5118.96	7.33	34.06	34.99	33.61	40.01	54.00	-13.99	Average
2 5149.98	7.36	34.00	34.99	33.19	39.56	54.00	-14.44	Average
3 5260.00	7.47	34.04	35.00	80.60	87.11	-----	-----	Average

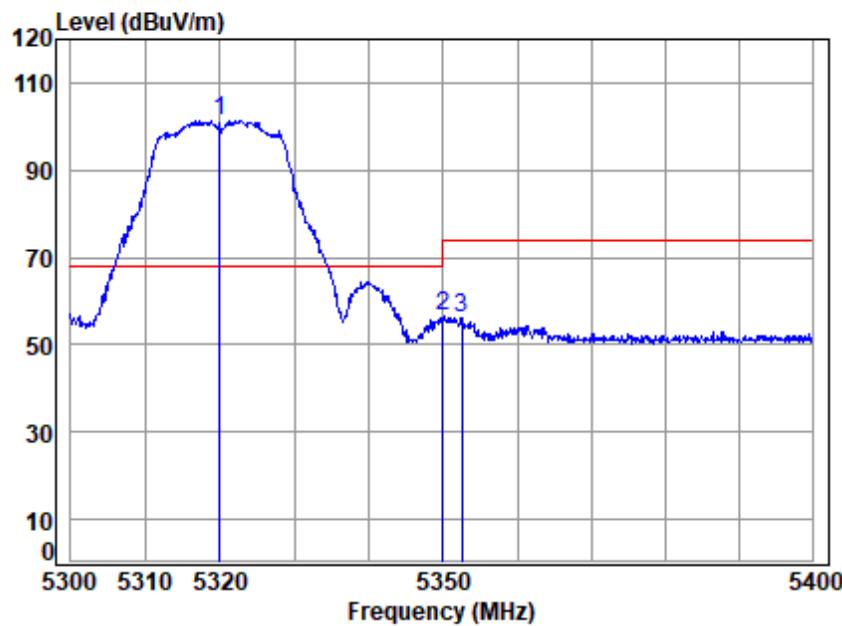
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5320 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 q 5320.00	7.53	34.24	35.00	94.71	101.48	68.20	33.28	peak
2 5350.02	7.56	34.30	35.00	49.72	56.58	74.00	-17.42	peak
3 5352.47	7.56	34.31	35.00	49.31	56.18	74.00	-17.82	peak

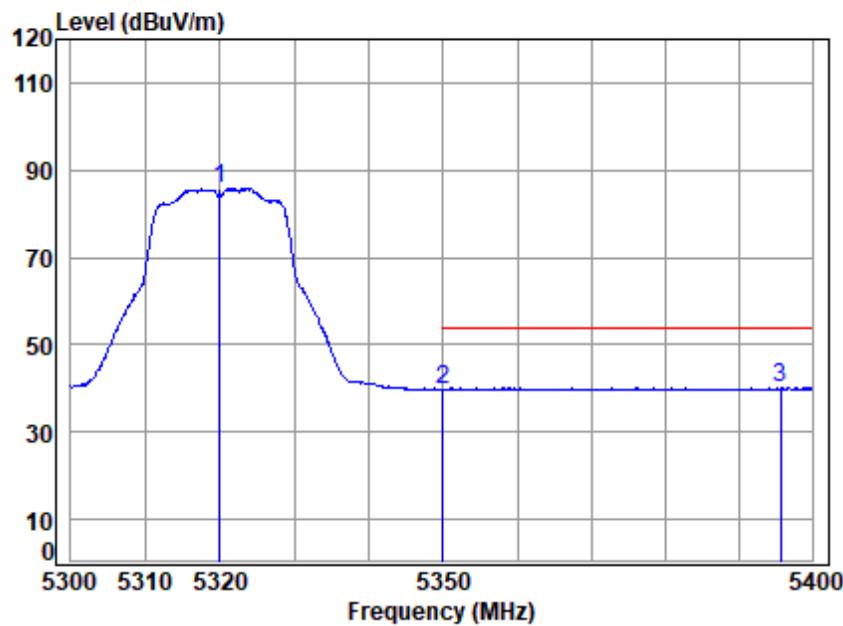
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



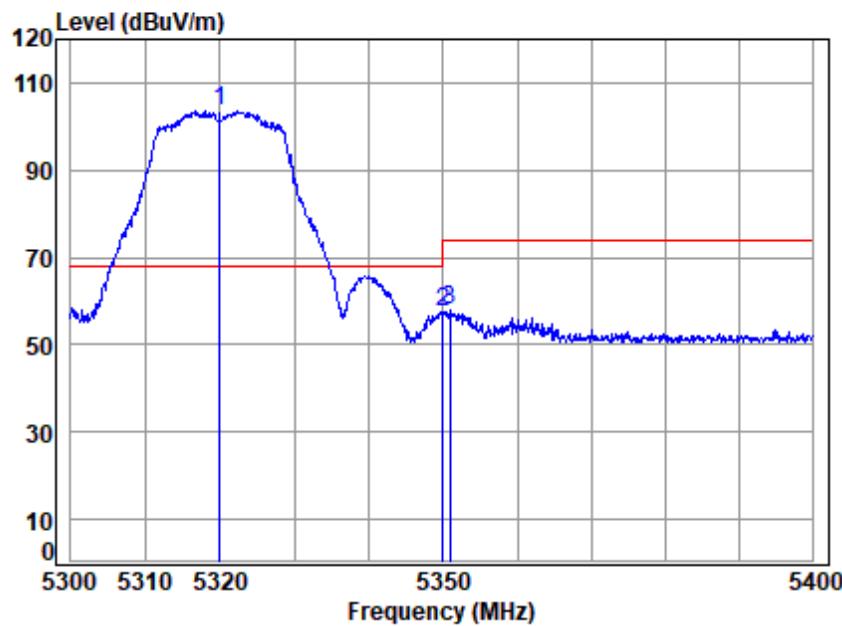
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5320 Band edge
: 5G WIFI 11AC20

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 5320.00	7.53	34.24	35.00	79.15	85.92	-----	-----	Average
2 5350.02	7.56	34.30	35.00	33.04	39.90	54.00	-14.10	Average
3 q 5395.76	7.61	34.48	35.01	33.12	40.20	54.00	-13.80	Average

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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5320 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 q 5320.00	7.53	34.24	35.00	96.71	103.48	68.20	35.28	Peak
2 5350.02	7.56	34.30	35.00	50.72	57.58	74.00	-16.42	Peak
3 5350.97	7.56	34.30	35.00	50.91	57.77	74.00	-16.23	Peak

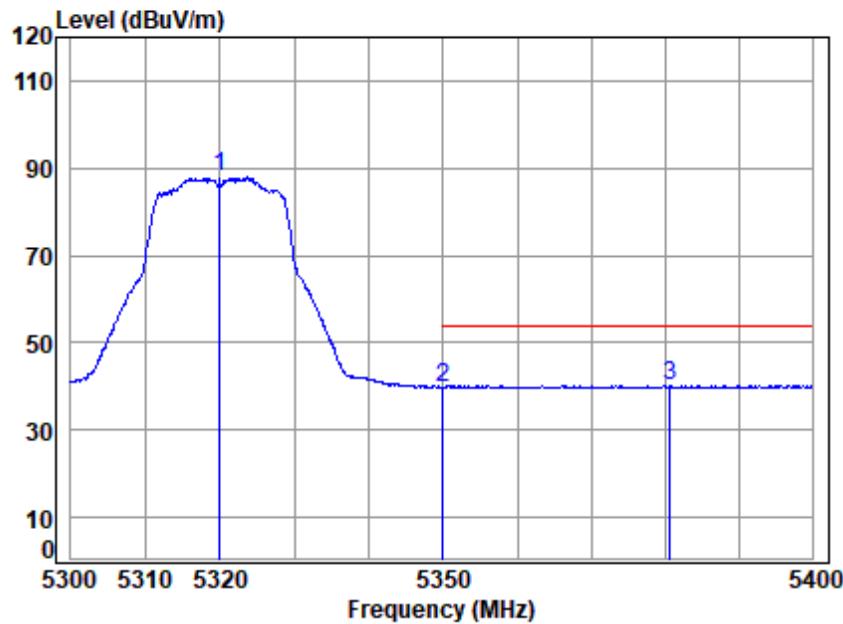
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

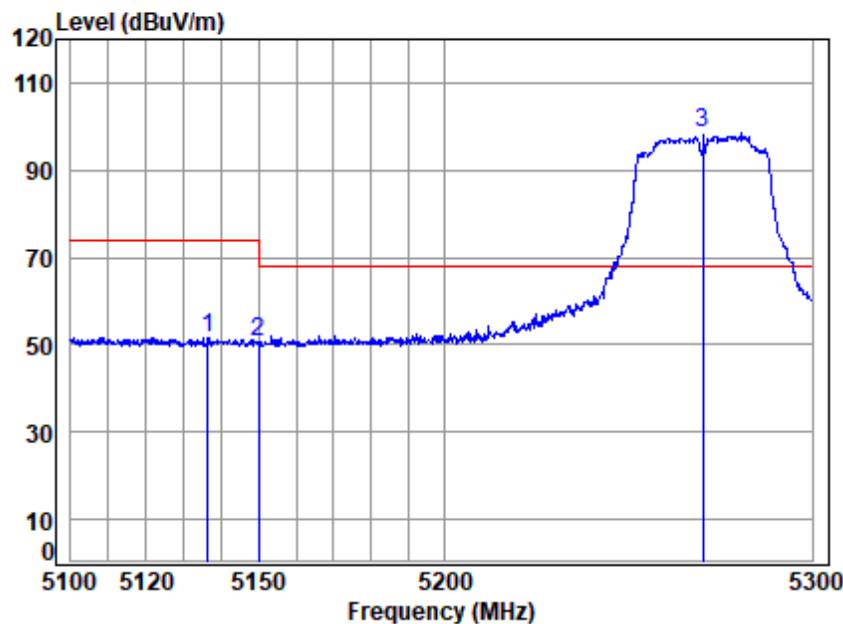


Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5320 Band edge
: 5G WIFI 11AC20

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 5320.00	7.53	34.24	35.00	81.10	87.87	-----	-----	Average
2 5350.02	7.56	34.30	35.00	33.02	39.88	54.00	-14.12	Average
3 q 5380.76	7.59	34.42	35.00	33.16	40.17	54.00	-13.83	Average



Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5270 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	5136.42	7.35	34.03	34.99	45.36	51.75	74.00 -22.25 peak
2	5149.98	7.36	34.00	34.99	44.35	50.72	74.00 -23.28 peak
3 q	5270.00	7.48	34.08	35.00	91.94	98.50	68.20 30.30 peak

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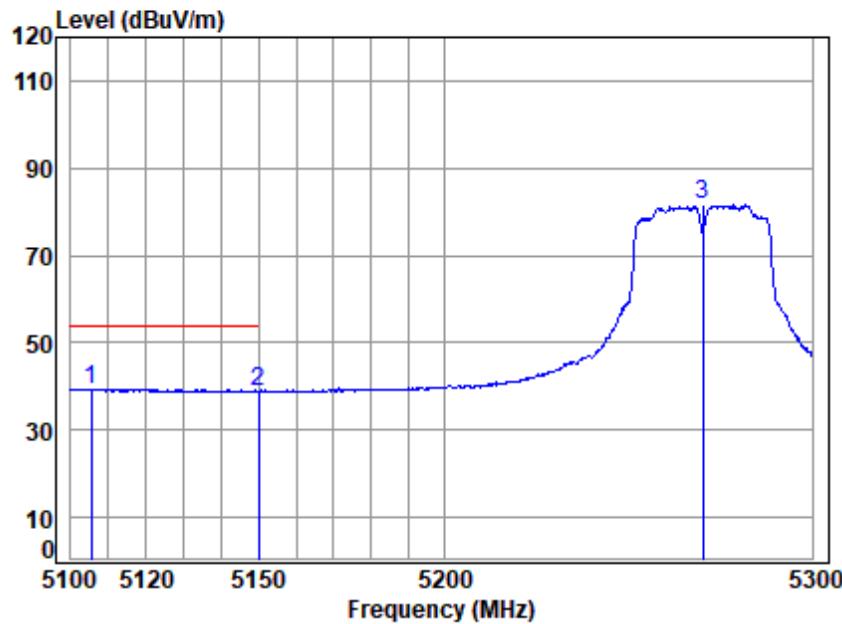
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5270 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 q 5105.50	7.32	34.09	34.99	32.94	39.36	54.00	-14.64	Average
2 5149.98	7.36	34.00	34.99	32.49	38.86	54.00	-15.14	Average
3 5270.00	7.48	34.08	35.00	75.10	81.66	-----	-----	Average

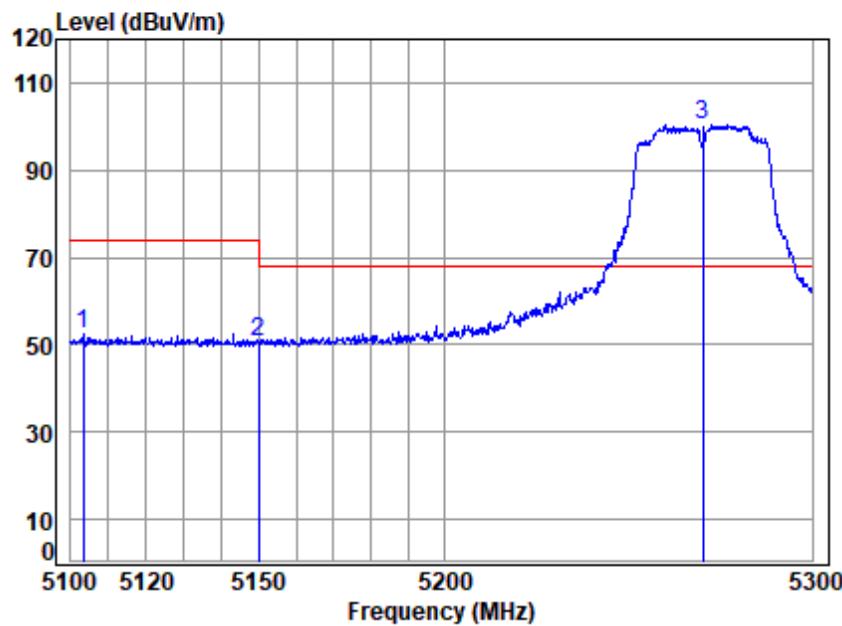
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5270 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
1	5103.34	7.32	34.09	34.99	46.11	52.53	74.00 -21.47 Peak
2	5149.98	7.36	34.00	34.99	44.20	50.57	74.00 -23.43 Peak
3 q	5270.00	7.48	34.08	35.00	93.85	100.41	68.20 32.21 Peak

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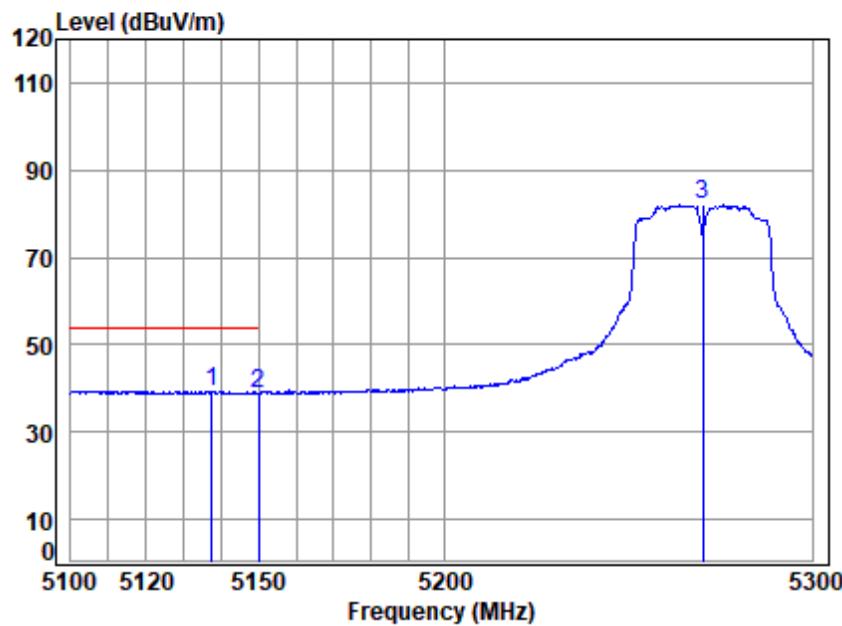
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5270 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
1 q	5137.41	7.35	34.03	34.99	32.98	39.37	54.00 -14.63 Peak
2	5150.00	7.36	34.00	34.99	32.60	38.97	----- Peak
3	5270.00	7.48	34.05	35.00	75.40	81.93	----- Peak

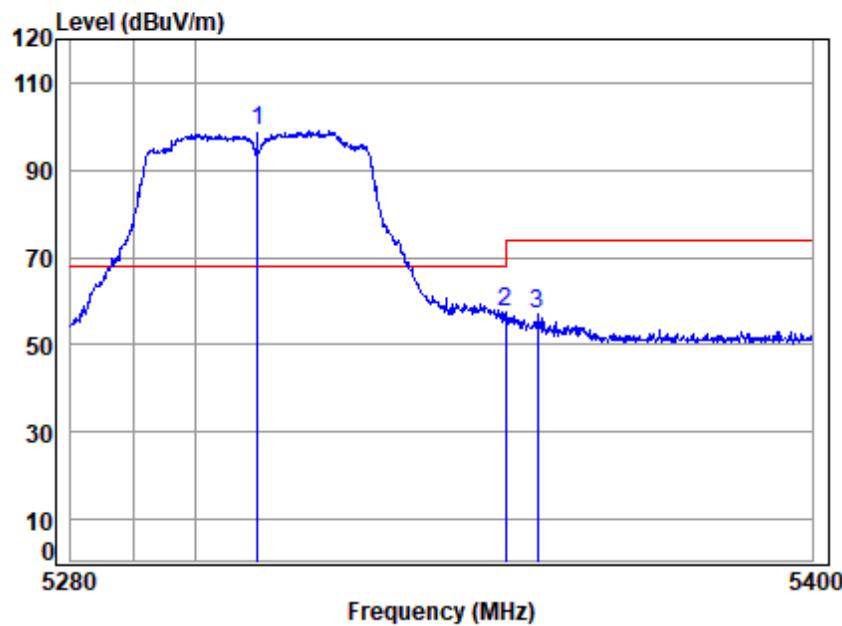
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5310 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
1 q	5310.00	7.52	34.22	35.00	92.17	98.91	68.20
2	5350.02	7.56	34.30	35.00	50.74	57.60	74.00
3	5355.17	7.57	34.32	35.00	50.20	57.09	74.00

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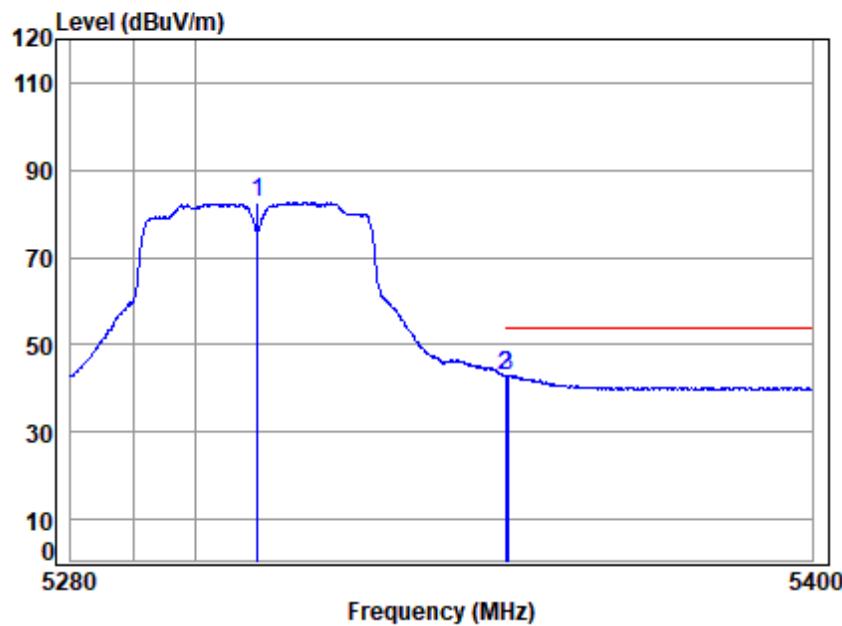
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5310 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	5310.00	7.52	34.22	35.00	75.86	82.60	-----	Average
2 q	5350.02	7.56	34.30	35.00	36.14	43.00	54.00	-11.00 Average
3	5350.47	7.56	34.30	35.00	35.96	42.82	54.00	-11.18 Average

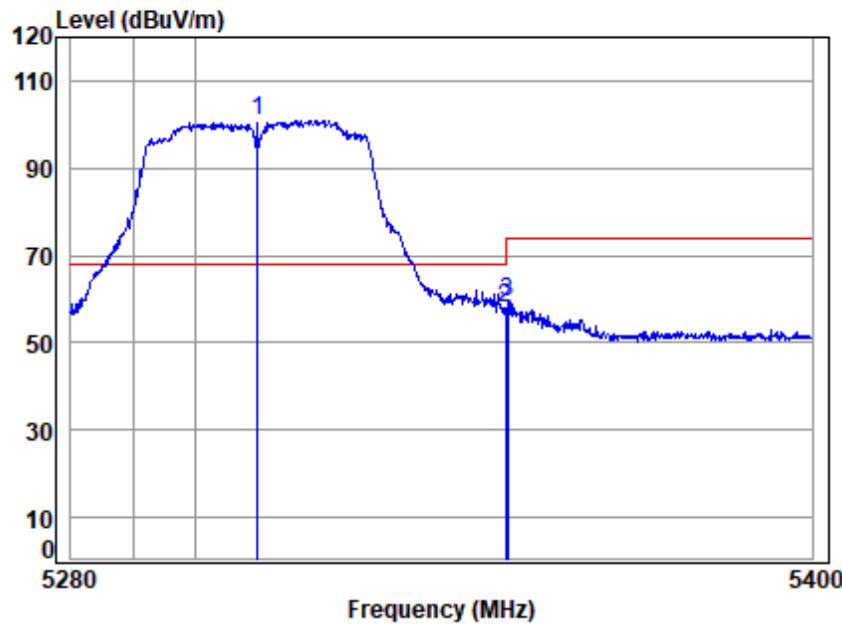
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



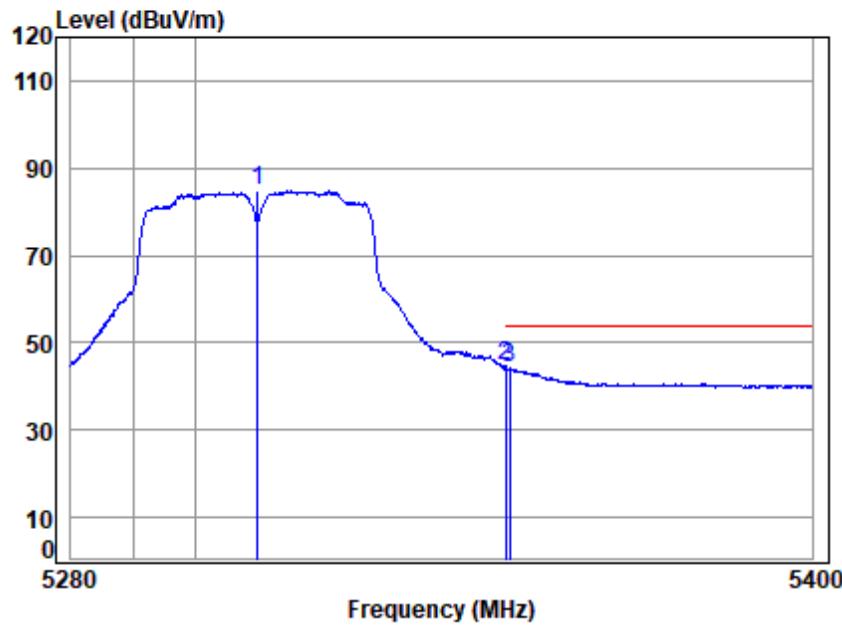
Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

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
1 q 5310.00	7.52	34.22	35.00	94.20	100.94	68.20	32.74 Peak
2 5350.02	7.56	34.30	35.00	51.25	58.11	74.00	-15.89 Peak
3 5350.47	7.56	34.30	35.00	52.55	59.41	74.00	-14.59 Peak

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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5310 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	5310.00	7.52	34.22	35.00	78.02	84.76	-----	Average
2	q	5350.02	7.56	34.30	35.00	37.80	44.66	54.00 -9.34 Average
3		5350.71	7.56	34.30	35.00	37.31	44.17	54.00 -9.83 Average

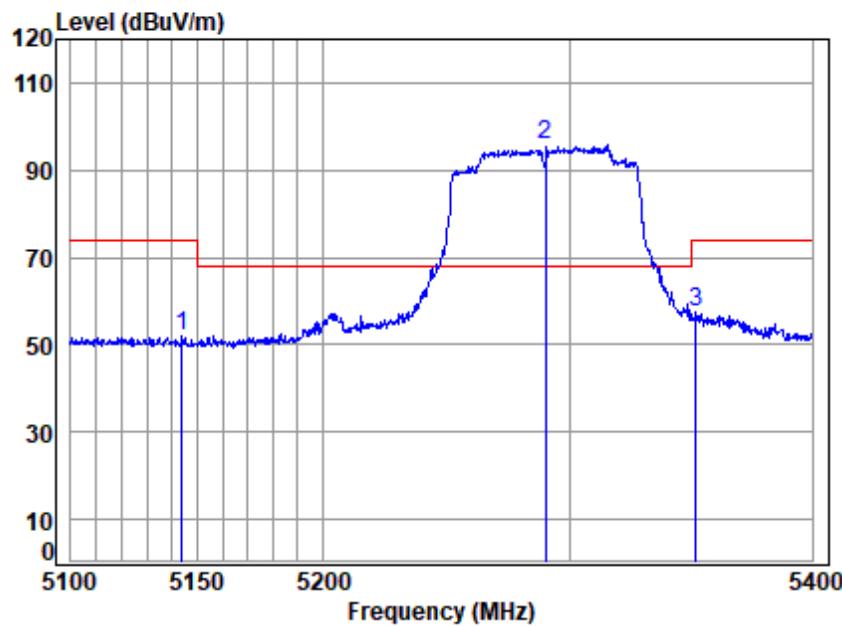
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5290 Band edge
 : 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5143.91	7.36	34.01	34.99	45.43	51.81	74.00	-22.19 peak
2 q	5290.00	7.50	34.16	35.00	89.06	95.72	68.20	27.52 peak
3	5351.76	7.56	34.31	35.00	50.40	57.27	74.00	-16.73 peak



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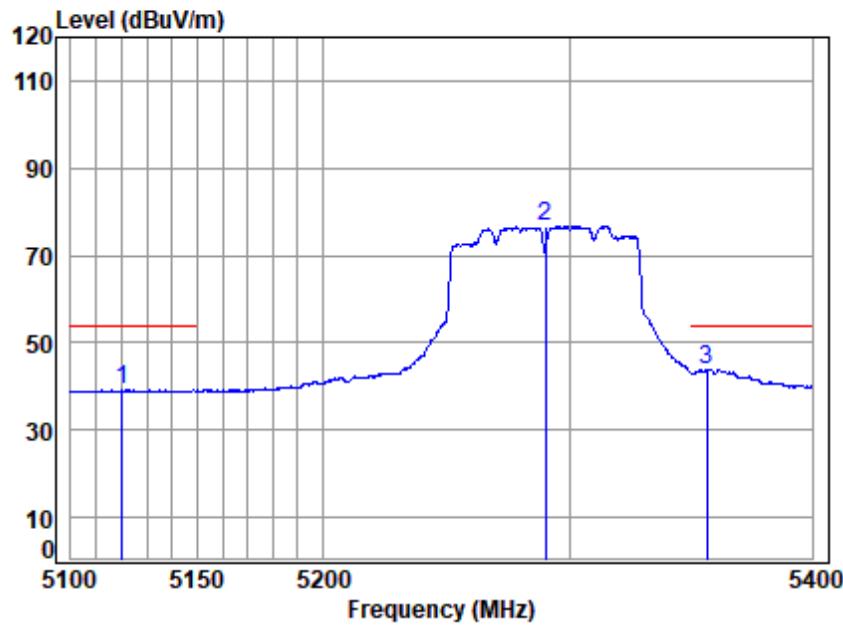
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5290 Band edge
 : 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5120.15	7.33	34.06	34.99	32.74	39.14	54.00	-14.86 Average
2	5290.00	7.50	34.16	35.00	70.21	76.87	-----	----- Average
3 q	5356.35	7.57	34.33	35.00	37.00	43.90	54.00	-10.10 Average

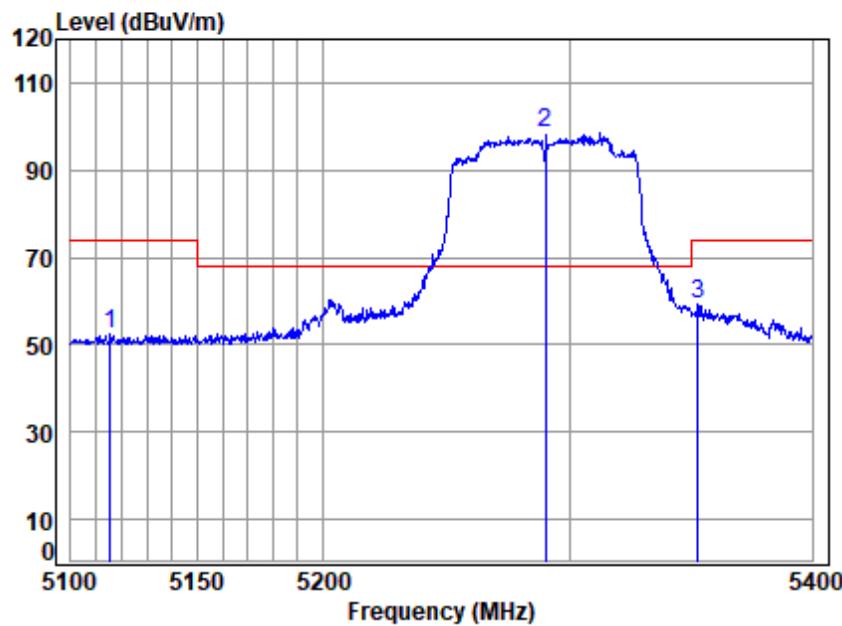
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5290 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	5115.47	7.33	34.07	34.99	45.92	52.33	74.00 -21.67 Peak
2	5290.00	7.50	34.16	35.00	91.88	98.54	68.20 30.34 Peak
3	5352.68	7.57	34.31	35.00	52.53	59.41	74.00 -14.59 Peak

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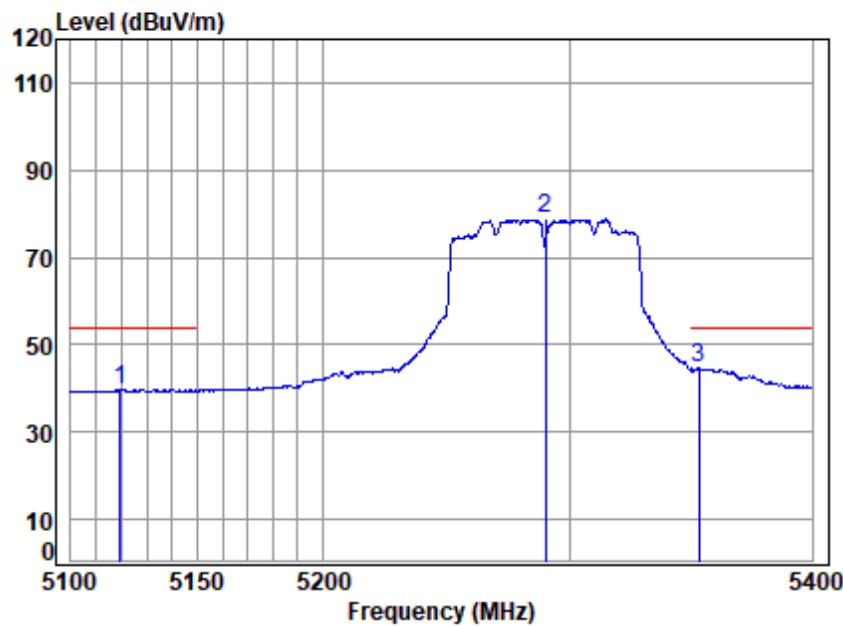
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5290 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	5119.57	7.33	34.06	34.99	33.34	39.74	54.00	-14.26 Average
2	5290.00	7.50	34.16	35.00	72.21	78.87	-----	----- Average
3 q	5353.29	7.57	34.31	35.00	37.68	44.56	54.00	-9.44 Average

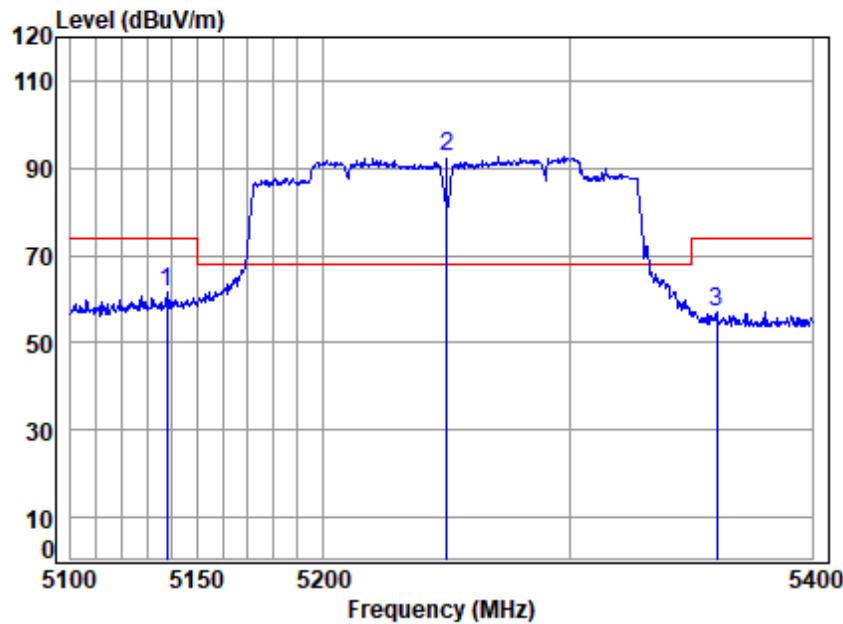
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	5138.04	7.35	34.02	34.99	55.24	61.62	74.00 -12.38 peak
2 q	5250.00	7.46	34.00	35.00	86.13	92.59	68.20 24.39 peak
3	5360.33	7.57	34.34	35.00	50.22	57.13	74.00 -16.87 peak

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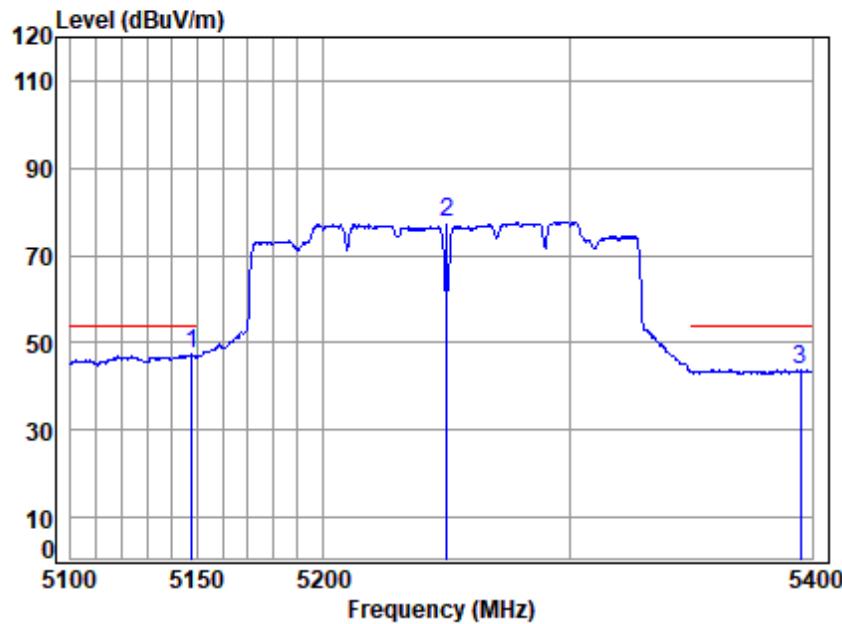
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



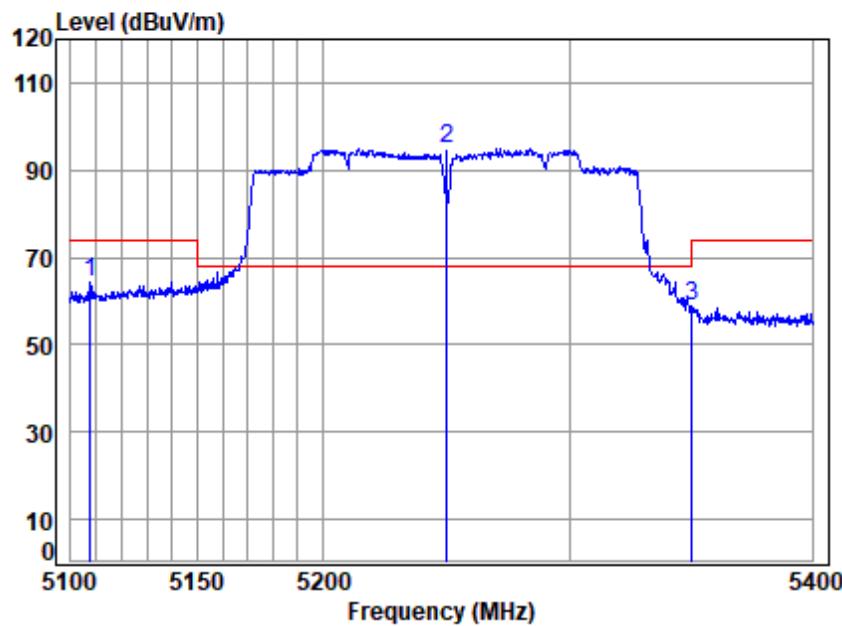
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

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 q 5147.74	7.36	34.00	34.99	40.91	47.28	54.00	-6.72	Average
2 5250.00	7.46	34.00	35.00	71.28	77.74	-----	-----	Average
3 5395.37	7.61	34.48	35.01	36.94	44.02	54.00	-9.98	Average

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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



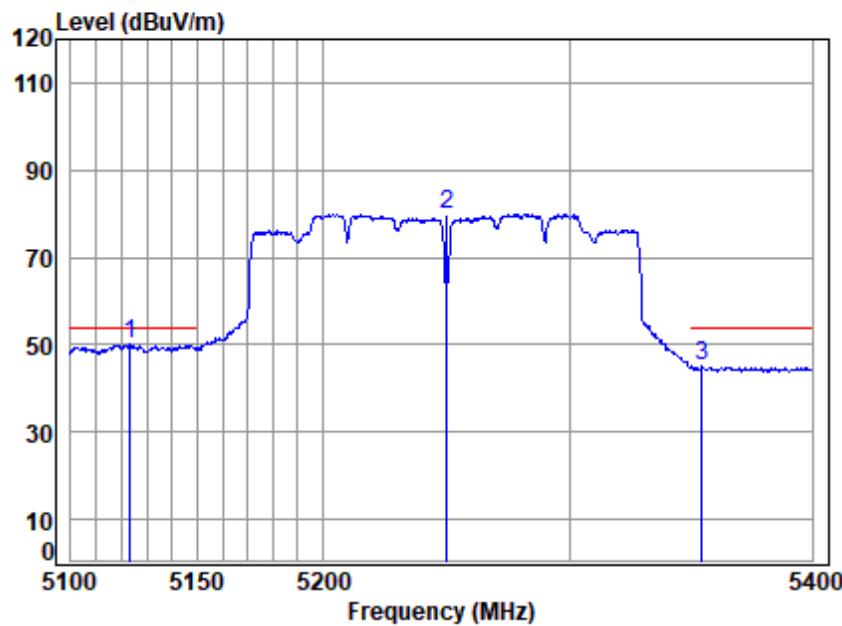
Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

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	5107.59	7.32	34.08	34.99	57.86	64.27	74.00	-9.73 Peak
2 q	5250.00	7.46	34.00	35.00	88.35	94.81	68.20	26.61 Peak
3	5350.23	7.56	34.30	35.00	51.84	58.70	74.00	-15.30 Peak

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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5250 Band edge
: 5G WIFI 11AC160

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 q 5123.37	7.34	34.05	34.99	43.62	50.02	54.00	-3.98	Average
2 5250.00	7.46	34.00	35.00	73.33	79.79	-----	-----	Average
3 5354.21	7.57	34.32	35.00	38.19	45.08	54.00	-8.92	Average

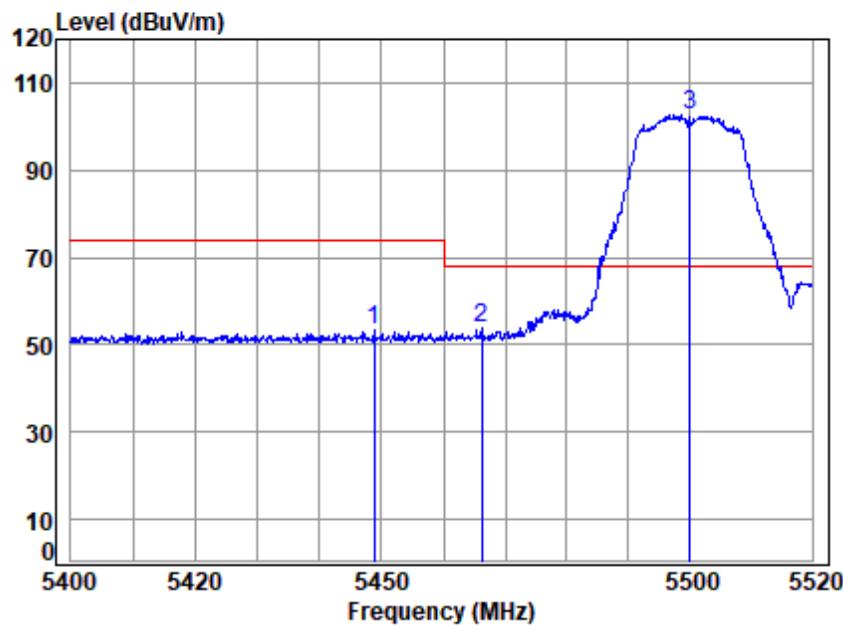
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5500 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	5448.76	7.66	34.60	35.01	45.98	53.23	74.00 -20.77 peak
2	5466.15	7.67	34.60	35.01	46.38	53.64	68.20 -14.56 peak
3 q	5500.00	7.71	34.60	35.01	95.29	102.59	68.20 34.39 peak

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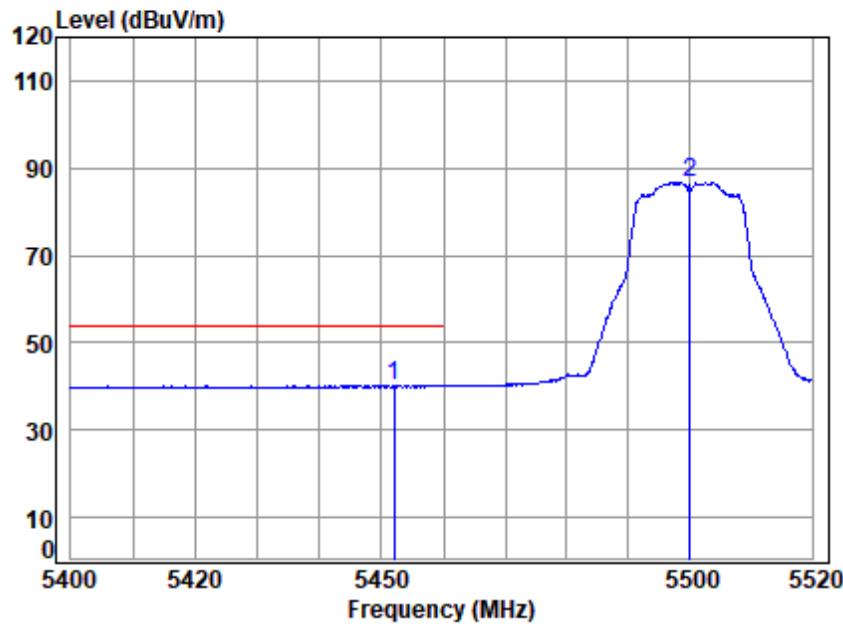
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5500 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 5452.00	7.66	34.60	35.01	33.04	40.29	54.00	-13.71 Average
2 5500.00	7.71	34.60	35.01	79.59	86.89	-----	----- Average



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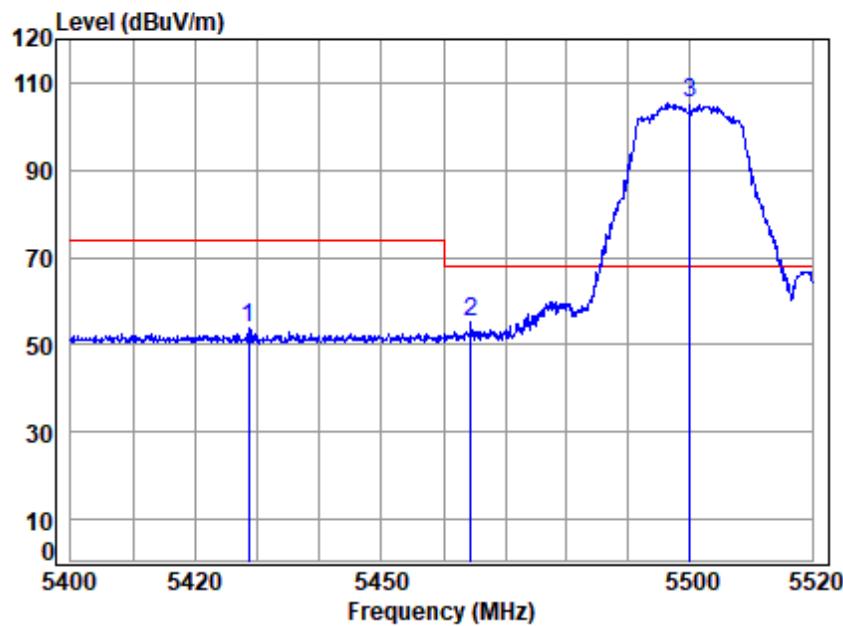
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5500 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 5428.56	7.64	34.56	35.01	46.58	53.77	74.00	-20.23 Peak
2 5464.47	7.67	34.60	35.01	48.12	55.38	68.20	-12.82 peak
3 q 5500.00	7.71	34.60	35.01	98.19	105.49	68.20	37.29 Peak

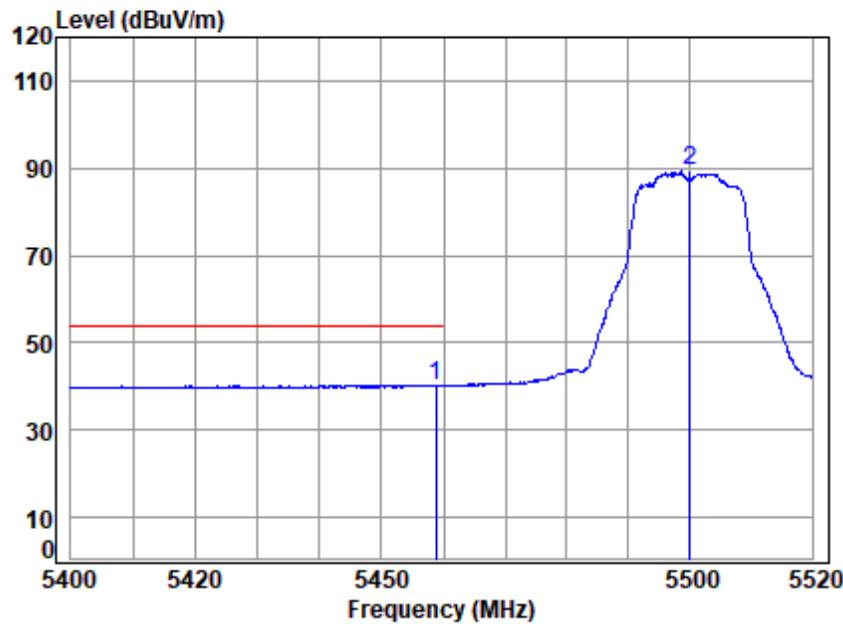
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5500 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q	5458.83	7.67	34.60	35.01	33.03	40.29	54.00 -13.71 Average
2	5500.00	7.71	34.60	35.01	82.03	89.33	----- ----- Average



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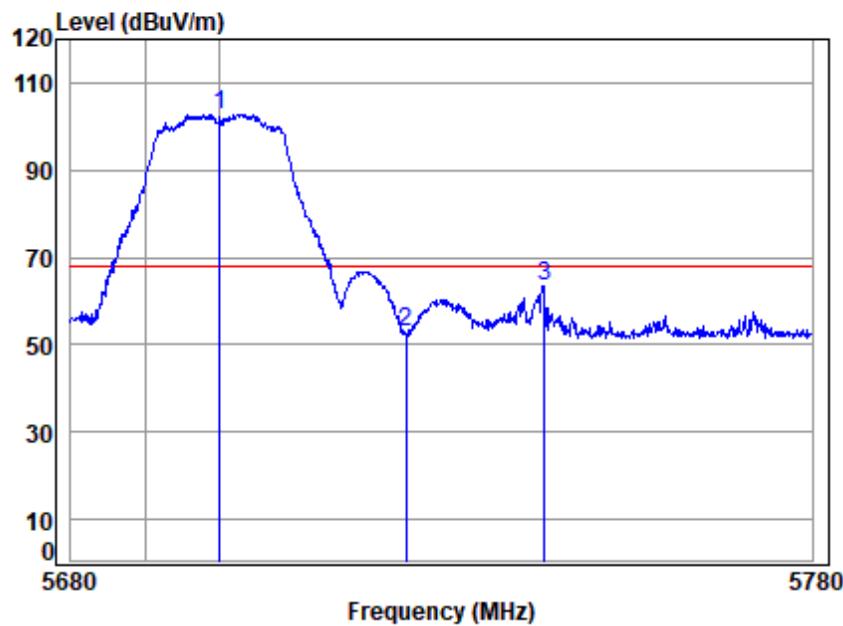
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5700 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 q 5700.00	7.89	34.50	35.02	95.50	102.87	68.20	34.67	peak
2 5725.00	7.92	34.50	35.02	45.67	53.07	68.20	-15.13	peak
3 5743.70	7.93	34.50	35.03	56.10	63.50	68.20	-4.70	peak

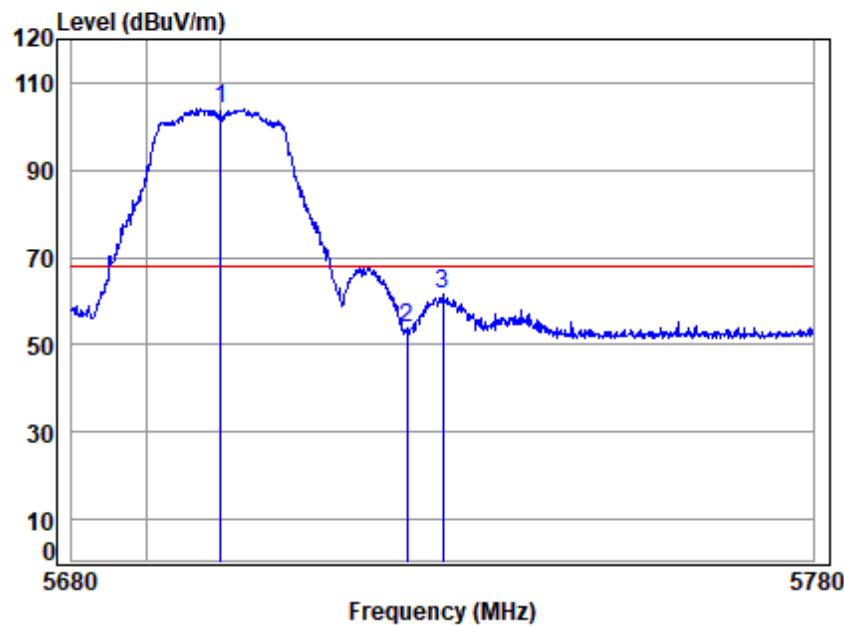
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



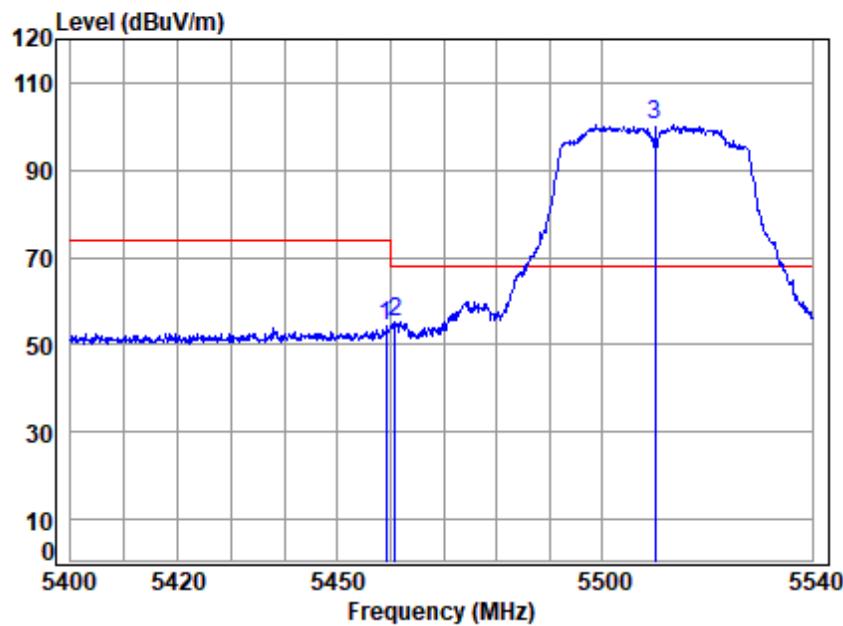
Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5700 Band edge
: 5G WIFI 11AC20

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 q 5700.00	7.89	34.50	35.02	96.74	104.11	68.20	35.91 Peak
2 5725.00	7.92	34.50	35.02	46.48	53.88	68.20	-14.32 Peak
3 5729.88	7.92	34.50	35.02	54.39	61.79	68.20	-6.41 Peak

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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5510 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	5459.20	7.67	34.60	35.01	47.23	54.49	74.00 -19.51 peak
2	5460.74	7.67	34.60	35.01	48.17	55.43	68.20 -12.77 peak
3 q	5510.00	7.72	34.60	35.01	93.01	100.32	68.20 32.12 peak

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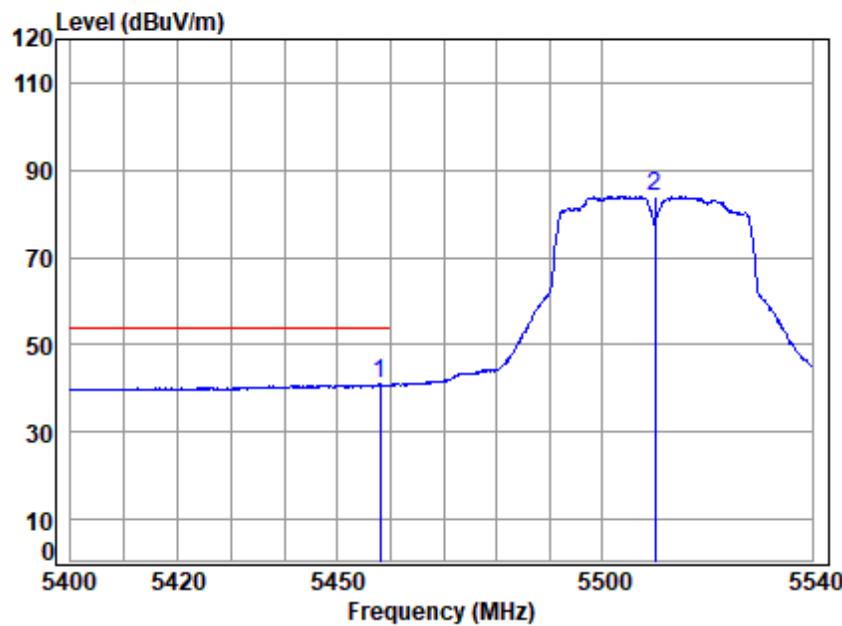
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5510 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	dB
1 q 5457.95	7.67	34.60	35.01	33.69	40.95	54.00	-13.05 Average
2 5510.00	7.72	34.60	35.01	76.87	84.18	-----	----- Average

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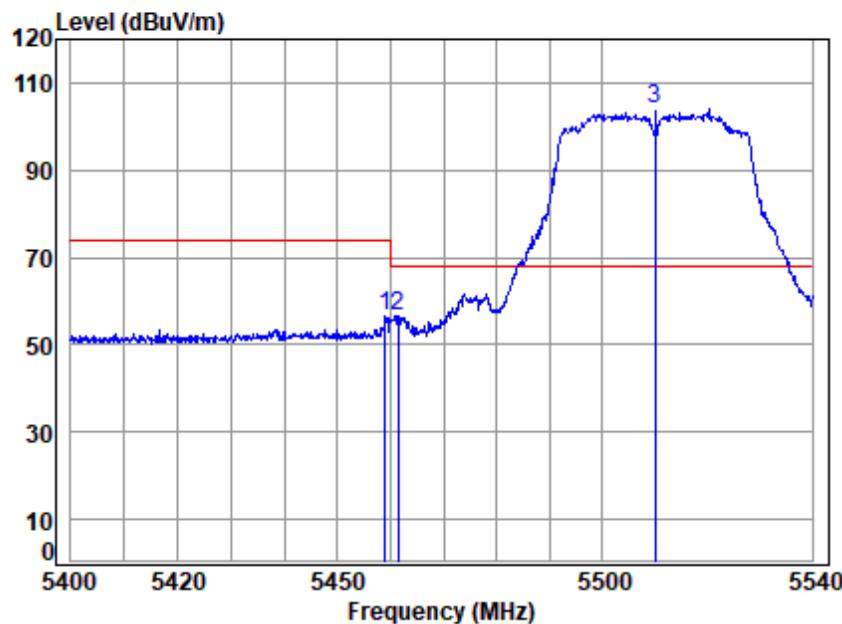
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5510 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 5458.92	7.67	34.60	35.01	49.11	56.37	74.00	-17.63	Peak
2 5461.30	7.67	34.60	35.01	49.36	56.62	68.20	-11.58	peak
3 q 5510.00	7.72	34.60	35.01	96.65	103.96	68.20	35.76	Peak

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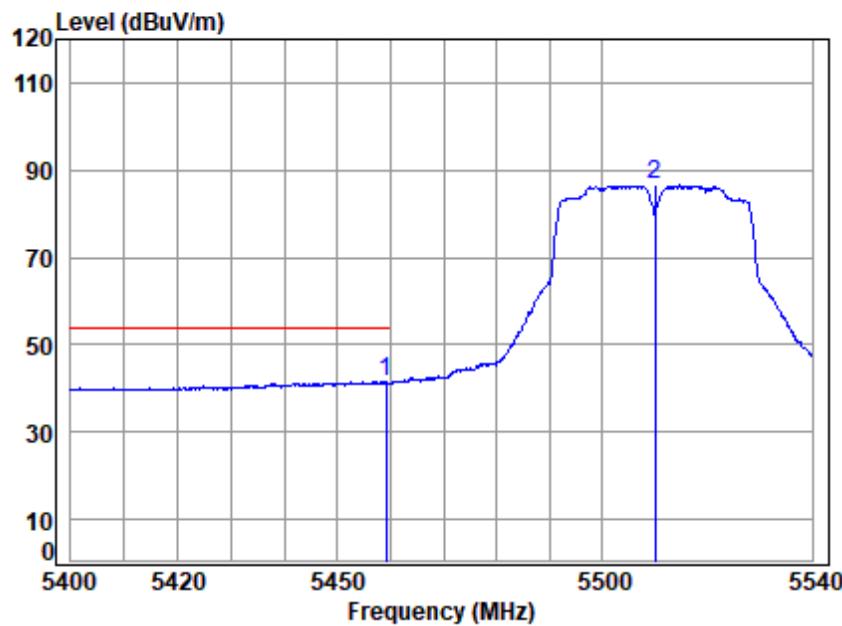
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5510 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 q 5459.20	7.67	34.60	35.01	34.35	41.61	54.00	-12.39	Average
2 5510.00	7.72	34.60	35.01	79.19	86.50	-----	-----	Average

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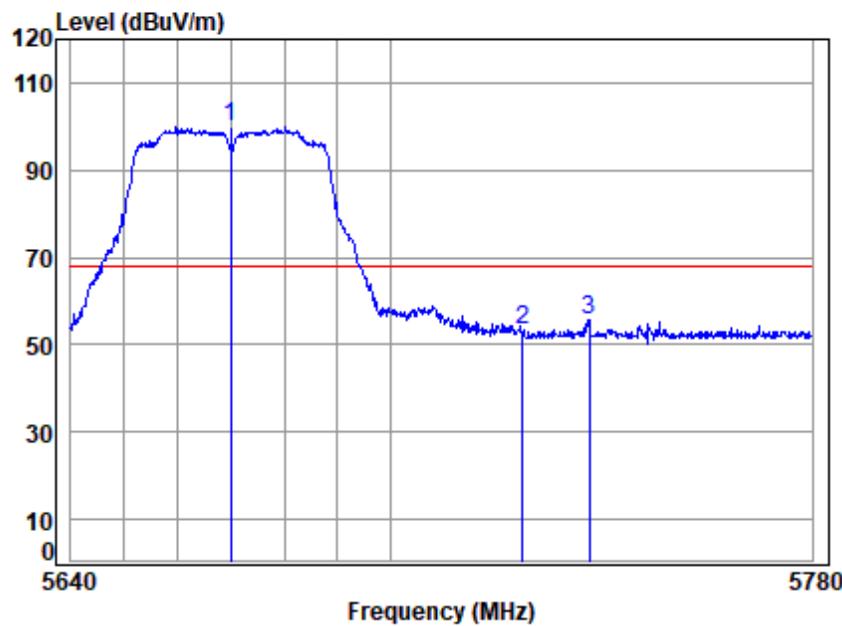
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5670 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 q 5670.00	7.87	34.50	35.02	92.79	100.14	68.20	31.94	peak
2 5725.00	7.92	34.50	35.02	45.77	53.17	68.20	-15.03	peak
3 5737.50	7.93	34.50	35.03	48.12	55.52	68.20	-12.68	Peak

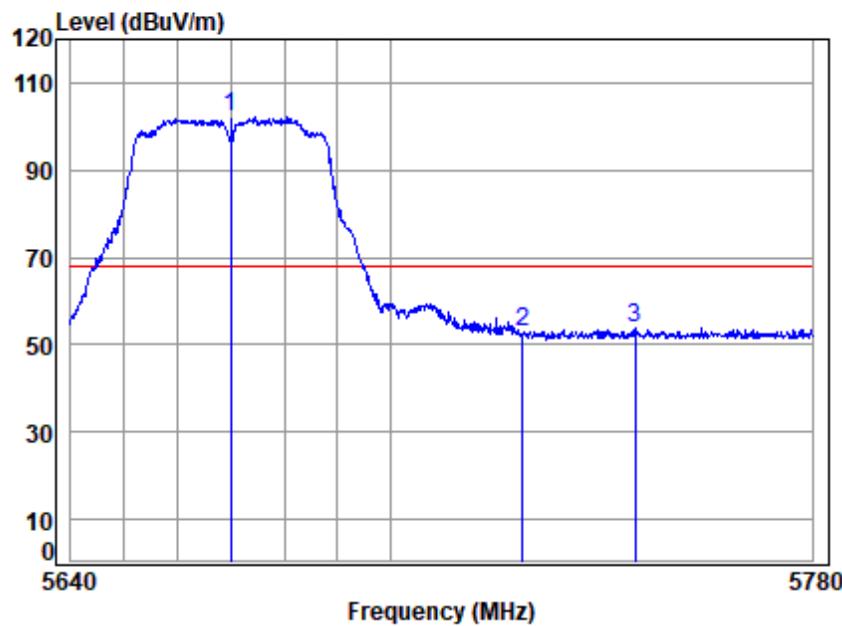
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



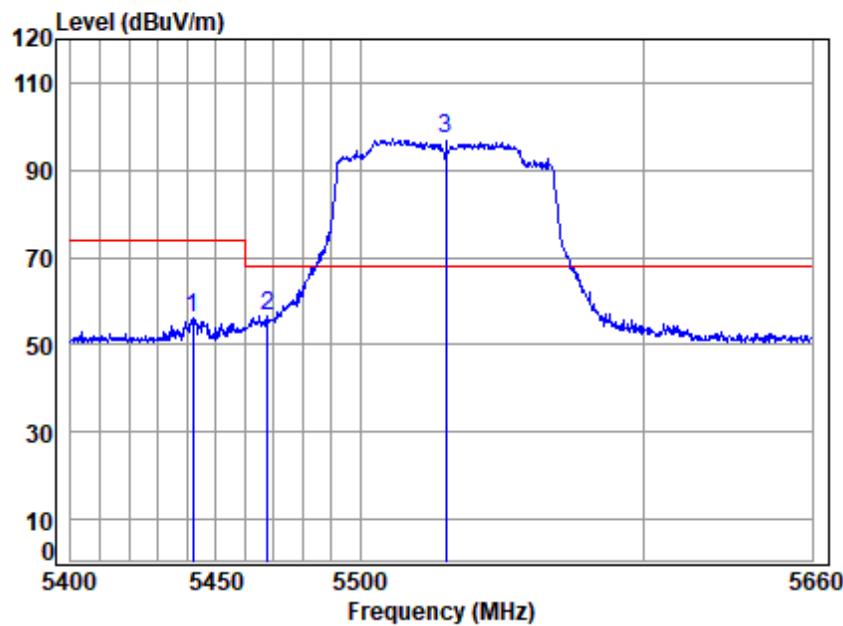
Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5670 Band edge
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5670.00	7.87	34.50	35.02	94.67	102.02	68.20	33.82 Peak
2 5725.00	7.92	34.50	35.02	45.33	52.73	68.20	-15.47 Peak
3 5746.37	7.93	34.50	35.03	46.53	53.93	68.20	-14.27 Peak

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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5530 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	5442.06	7.65	34.58	35.01	48.91	56.13	74.00	-17.87 peak
2	5467.71	7.68	34.60	35.01	49.45	56.72	68.20	-11.48 peak
3 q	5530.00	7.73	34.60	35.01	89.85	97.17	68.20	28.97 peak

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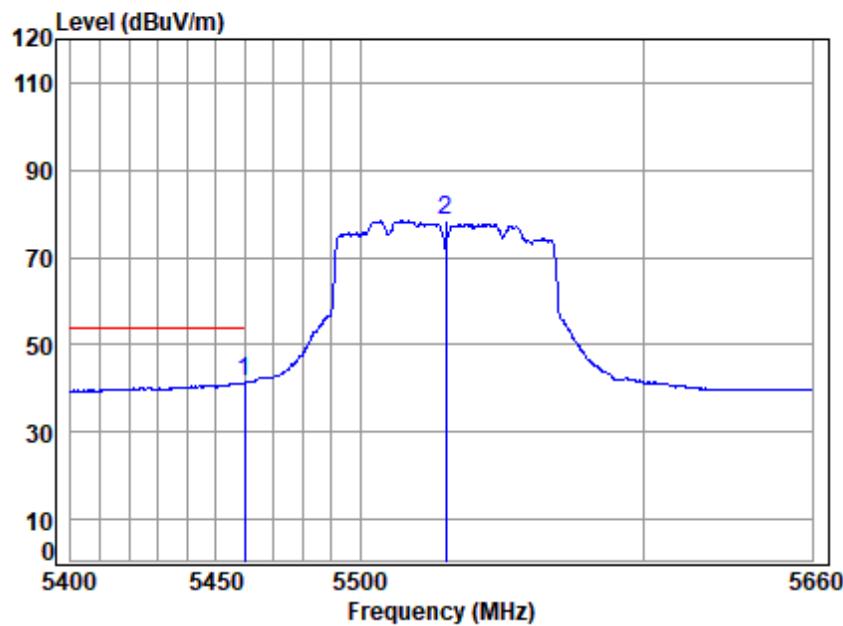
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



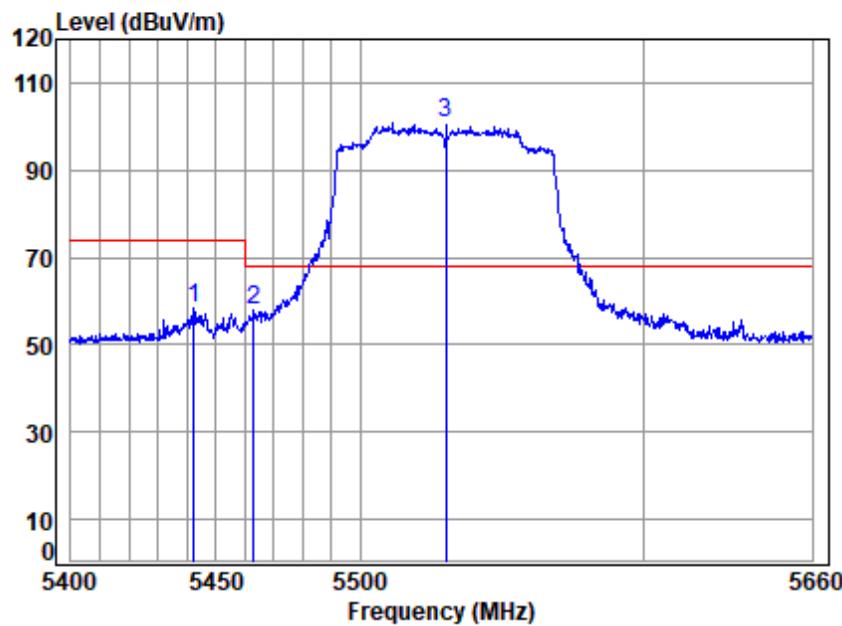
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

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 q 5459.75	7.67	34.60	35.01	34.09	41.35	54.00	-12.65	Average
2 5530.00	7.73	34.60	35.01	71.08	78.40	-----	-----	Average

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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5530 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	5442.32	7.65	34.58	35.01	51.02	58.24	74.00	-15.76 Peak
2	5463.09	7.67	34.60	35.01	50.89	58.15	68.20	-10.05 peak
3 q	5530.00	7.73	34.60	35.01	93.71	101.03	68.20	32.83 Peak

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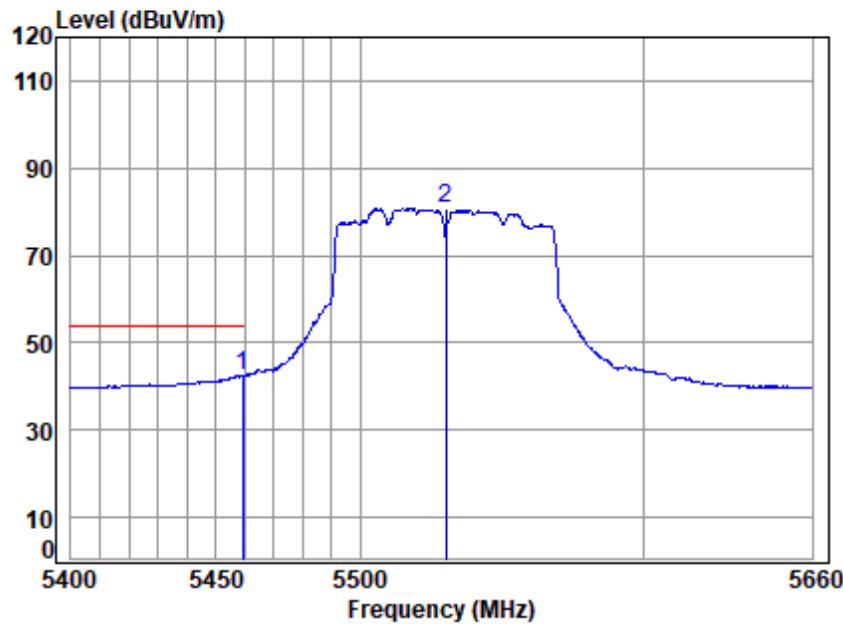
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5530 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 q 5459.24	7.67	34.60	35.01	35.38	42.64	54.00	-11.36	Average
2 5530.00	7.73	34.60	35.01	73.53	80.85	-----	-----	Average



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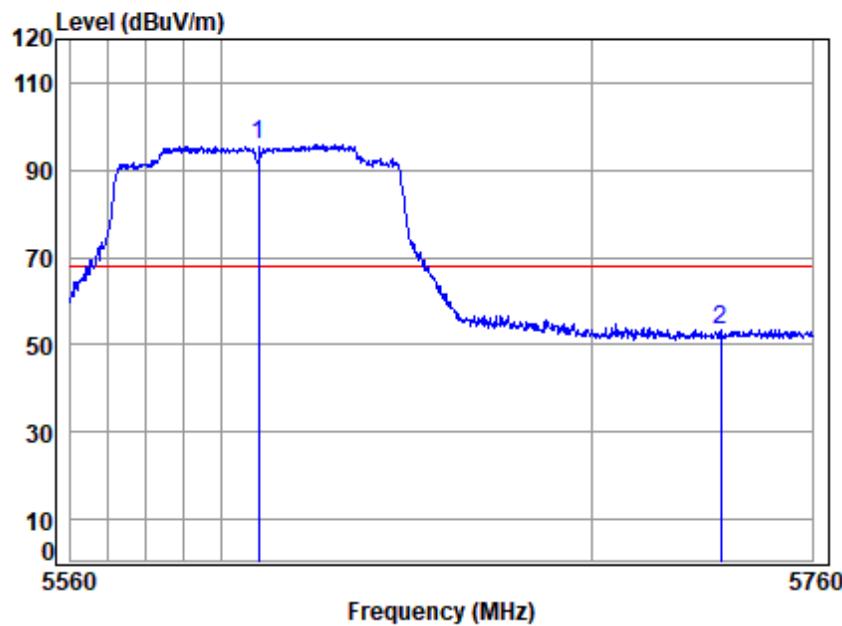
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5610 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 q 5610.00	7.81	34.50	35.02	88.52	95.81	68.20	27.61	peak
2 5735.02	7.92	34.50	35.03	46.21	53.60	68.20	-14.60	peak

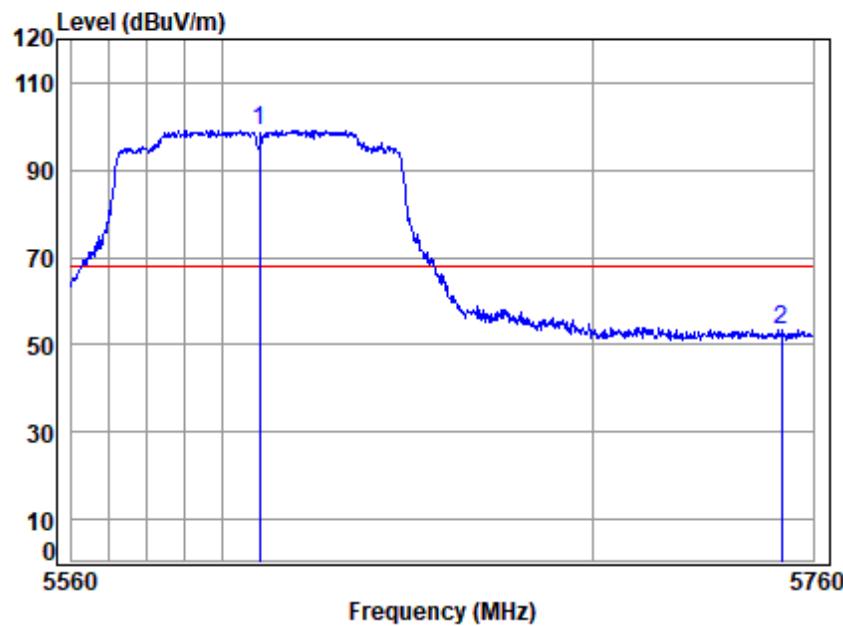
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Shenzhen Branch 1000m² 1300m² EEC Laboratory

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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



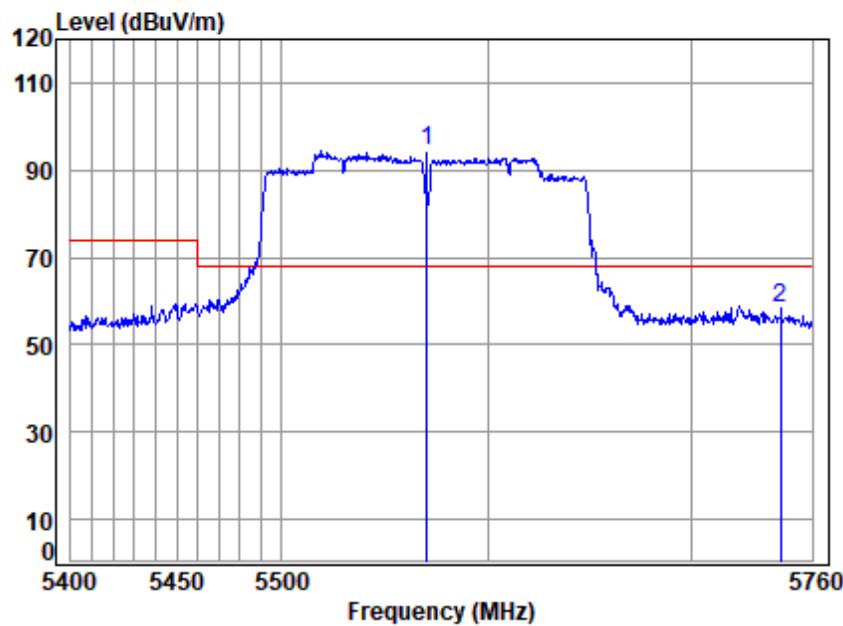
Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5610 Band edge
: 5G WIFI 11AC80

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 q 5610.00	7.81	34.50	35.02	91.93	99.22	68.20	31.02	Peak
2 5751.25	7.94	34.50	35.03	45.97	53.38	68.20	-14.82	Peak

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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5570 Band edge
: 5G WIFI 11AC160

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 q 5570.00	7.77	34.56	35.02	87.13	94.44	68.20	26.24	peak
2 5744.41	7.93	34.50	35.03	50.86	58.26	68.20	-9.94	peak

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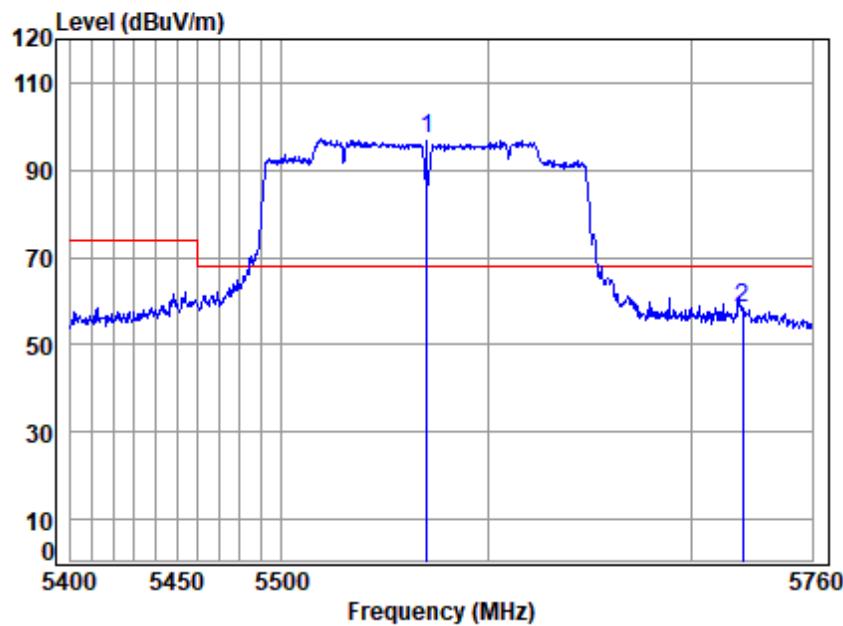
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



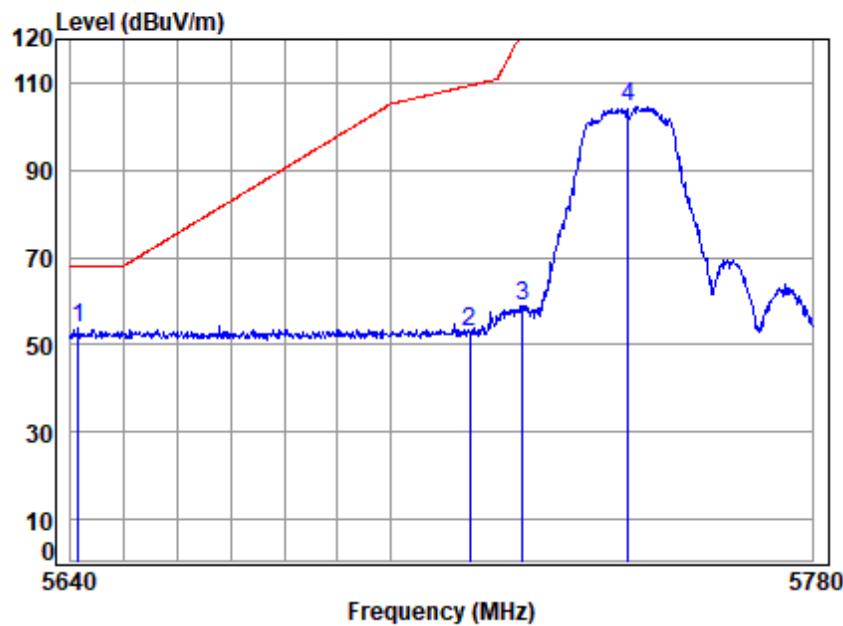
Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5570 Band edge
: 5G WIFI 11AC160

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 q 5570.00	7.77	34.56	35.02	90.10	97.41	68.20	29.21	Peak
2 5725.16	7.92	34.50	35.02	50.98	58.38	68.20	-9.82	Peak

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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 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 q 5641.38	7.84	34.50	35.02	46.72	54.04	68.20	-14.16	peak
2 5715.00	7.91	34.50	35.02	45.59	52.98	109.40	-56.42	peak
3 5725.00	7.92	34.50	35.02	51.46	58.86	122.20	-63.34	peak
4 5745.00	7.93	34.50	35.03	97.03	104.43	-----	-----	peak

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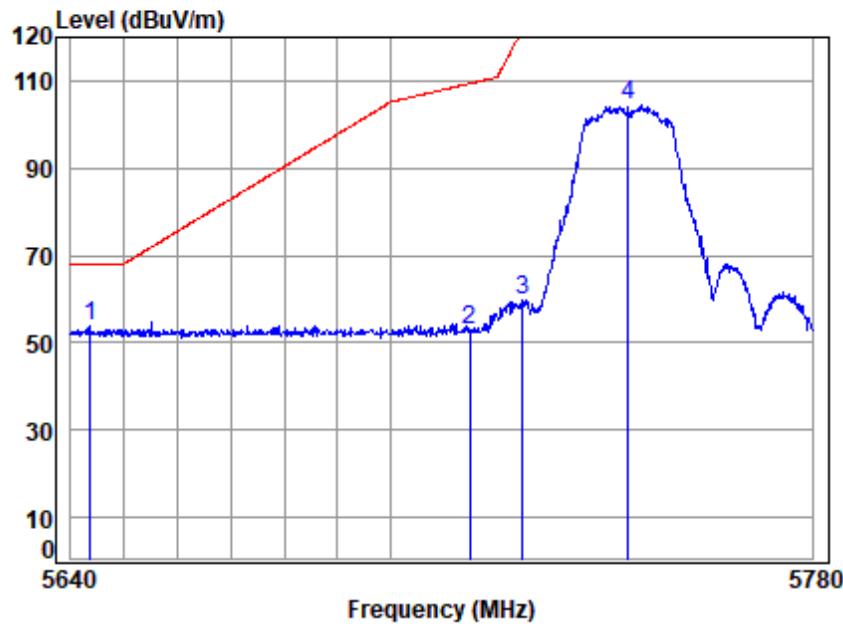
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

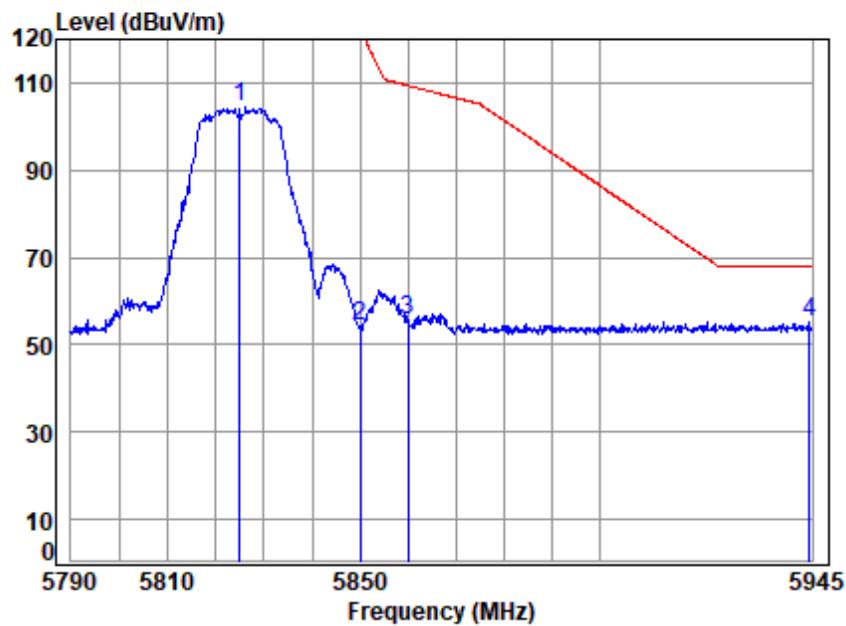


Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

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 q 5643.74	7.84	34.50	35.02	46.55	53.87	68.20	-14.33	peak
2 5715.00	7.91	34.50	35.02	45.39	52.78	109.40	-56.62	peak
3 5725.00	7.92	34.50	35.02	52.56	59.96	122.20	-62.24	peak
4 5745.00	7.93	34.50	35.03	96.90	104.30	-----	-----	peak



Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.00	8.01	34.65	35.03	96.65	104.28	-----	-----	peak
2	5850.00	8.03	34.70	35.03	46.40	54.10	122.20	-68.10	peak
3	5860.00	8.04	34.72	35.03	47.98	55.71	109.40	-53.69	peak
4 q	5944.37	8.11	34.89	35.04	47.18	55.14	68.20	-13.06	peak

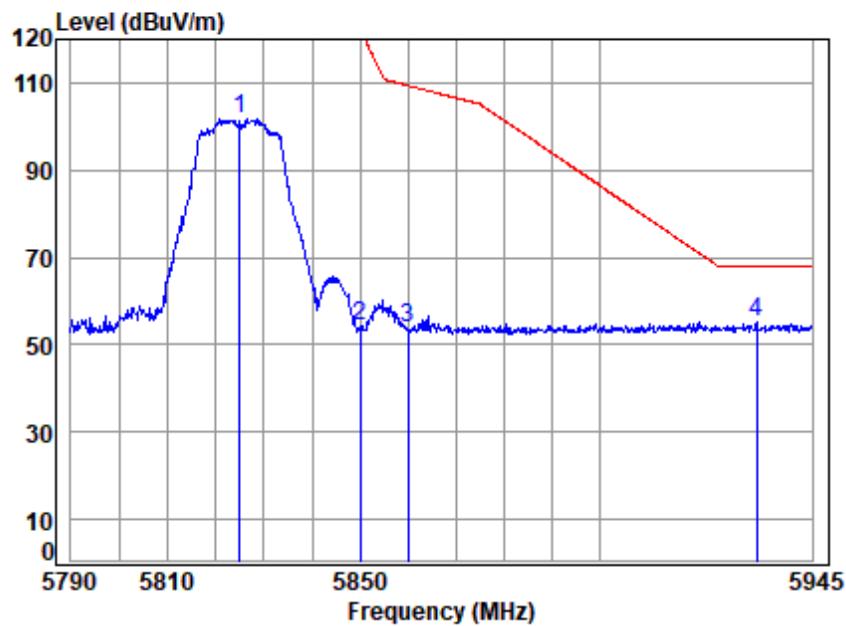
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The logo is circular with a red border. Inside the border, the text "SGS-CSTC" is written vertically on the left, and "Shenzhen Branch" is written vertically on the right. The center of the logo features a large red five-pointed star. Below the star, the text "检验检测专用章" (Inspection & Testing Special Seal) is written in a rectangular box, followed by "Inspection & Testing Services" and "SGS-CSTC Shenzhen Branch".

Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

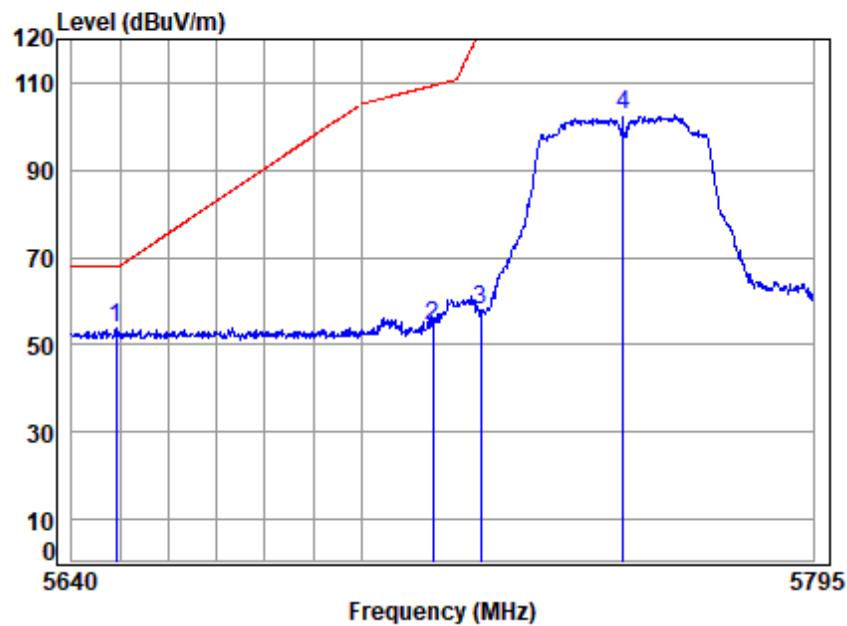


Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

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 5825.00	8.01	34.65	35.03	94.06	101.69	-----	-----	peak
2 5850.00	8.03	34.70	35.03	46.73	54.43	122.20	-67.77	peak
3 5860.00	8.04	34.72	35.03	45.92	53.65	109.40	-55.75	peak
4 q 5933.23	8.10	34.87	35.04	47.14	55.07	68.20	-13.13	peak



Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 5649.18	7.85	34.50	35.02	46.40	53.73	68.20	-14.47	peak
2	5715.00	7.91	34.50	35.02	46.80	54.19	109.40	-55.21	peak
3	5725.00	7.92	34.50	35.02	50.34	57.74	122.20	-64.46	peak
4	5755.00	7.94	34.51	35.03	95.35	102.77	-----	-----	peak

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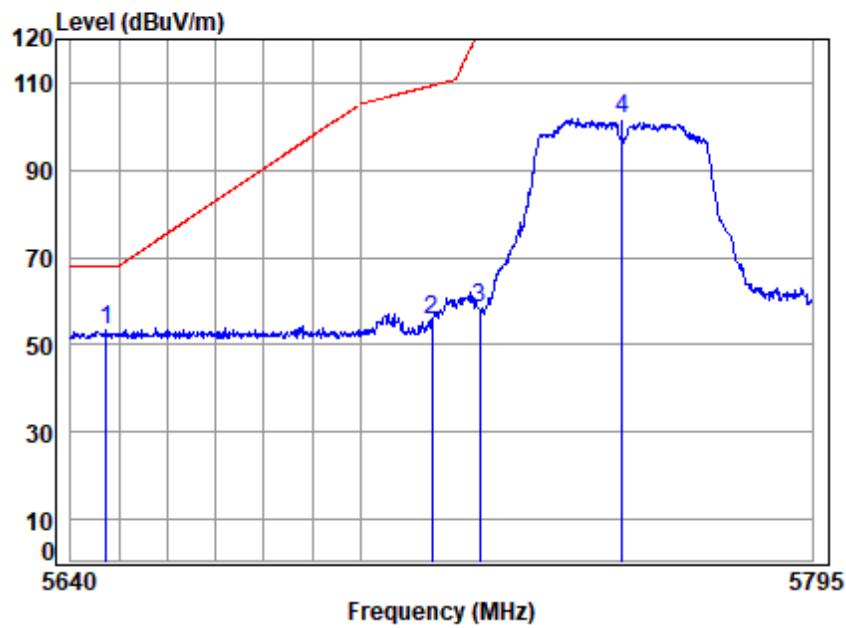
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 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 q 5647.34	7.84	34.50	35.02	46.01	53.33	68.20	-14.87	peak
2 5715.00	7.91	34.50	35.02	48.16	55.55	109.40	-53.85	peak
3 5725.00	7.92	34.50	35.02	50.90	58.30	122.20	-63.90	peak
4 5755.00	7.94	34.51	35.03	94.50	101.92	-----	-----	peak

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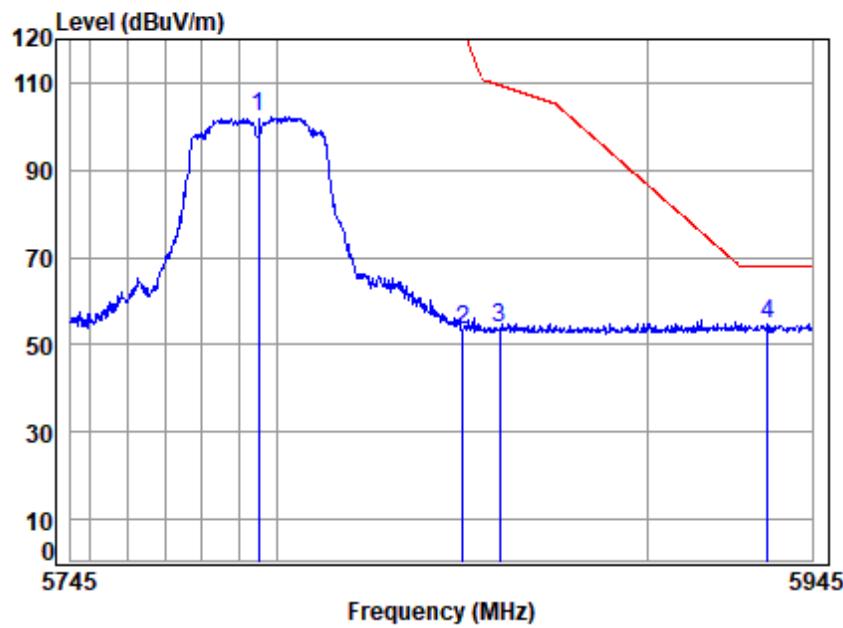
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5795 Band edge
 : 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 5795.00	7.98	34.59	35.03	94.57	102.11	-----	peak
2 5850.00	8.03	34.70	35.03	45.88	53.58	122.20	-68.62 peak
3 5860.00	8.04	34.72	35.03	46.25	53.98	109.40	-55.42 peak
4 q 5932.81	8.10	34.87	35.04	46.87	54.80	68.20	-13.40 peak



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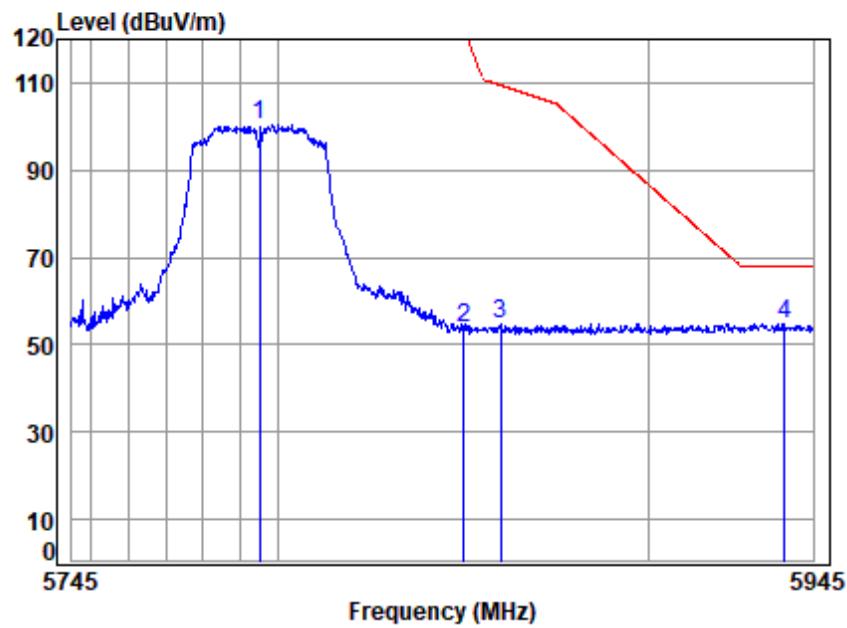
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.00	7.98	34.59	35.03	92.72	100.26	-----	-----	peak
2	5850.00	8.03	34.70	35.03	46.18	53.88	122.20	-68.32	peak
3	5860.00	8.04	34.72	35.03	46.83	54.56	109.40	-54.84	peak
4 q	5937.27	8.11	34.87	35.04	46.89	54.83	68.20	-13.37	peak

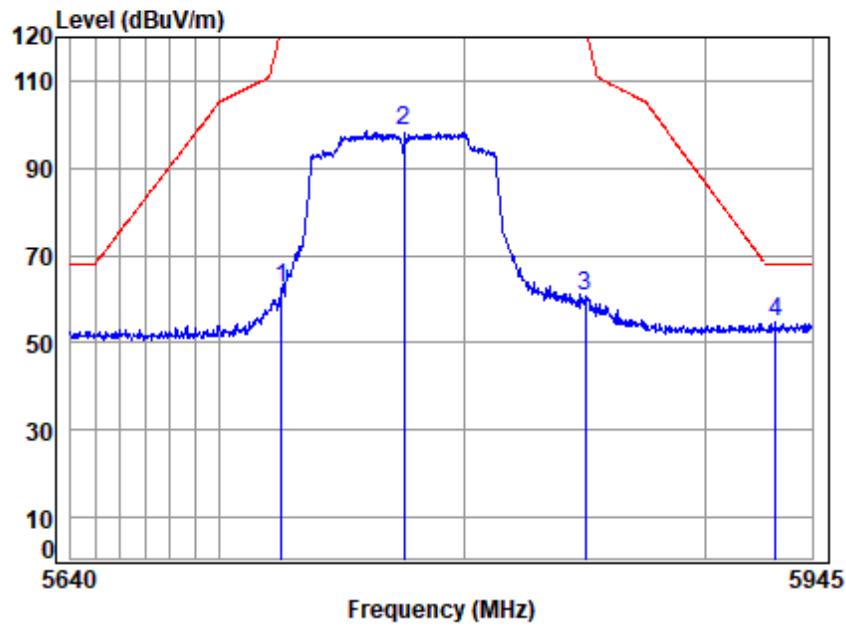
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

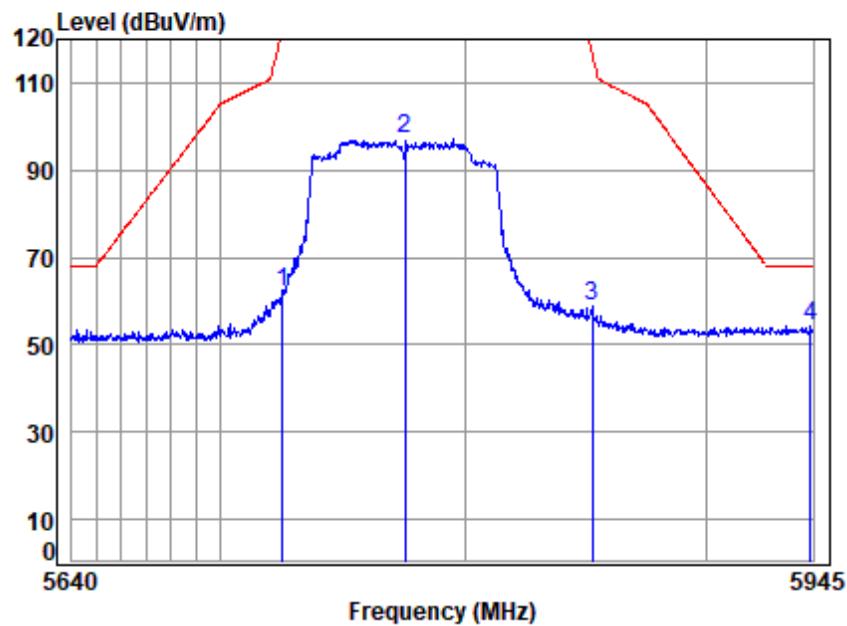


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Line	Over	Remark
	Freq	Loss	Factor	Factor				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	5724.99	7.92	34.50	35.02	55.12	62.52	122.18	-59.66 peak
2	5775.00	7.96	34.55	35.03	90.99	98.47	-----	----- peak
3	5849.96	8.03	34.70	35.03	53.12	60.82	-----	----- peak
4 q	5929.68	8.10	34.86	35.04	46.99	54.91	68.20	-13.29 peak



Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.99	7.92	34.50	35.02	54.62	62.02	122.18	-60.16	peak
2	5775.00	7.96	34.55	35.03	89.56	97.04	-----	-----	peak
3	5852.42	8.03	34.70	35.03	51.00	58.70	116.67	-57.97	peak
4 q	5943.75	8.11	34.89	35.04	46.42	54.38	68.20	-13.82	peak

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7.3 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	14	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	15	Charge+TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	16	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and

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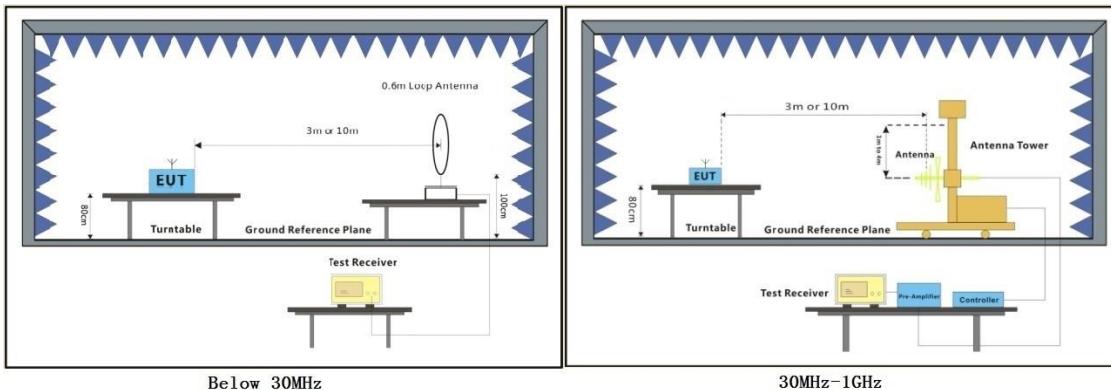
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		802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	21	Charge+TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

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

Remark:

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



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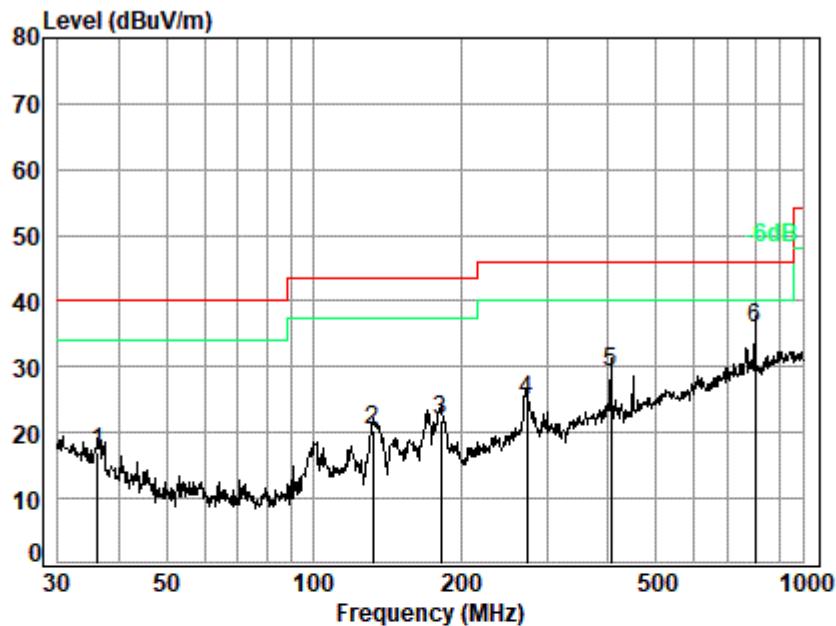
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Test Mode: 15; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01663AT

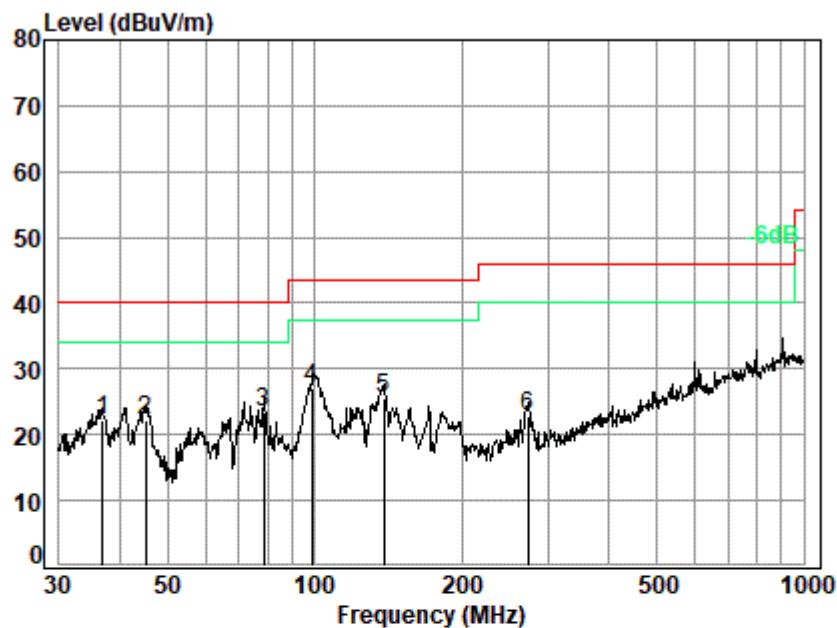
Test Mode: 15

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.13	17.52	0.65	27.21	26.08	17.04	40.00	-22.96 QP
2	132.22	11.72	1.32	26.87	34.15	20.32	43.50	-23.18 QP
3	181.92	14.66	1.59	26.67	32.34	21.92	43.50	-21.58 QP
4	272.28	17.88	2.00	26.31	31.34	24.91	46.00	-21.09 QP
5	404.67	21.43	2.50	26.51	31.91	29.33	46.00	-16.67 QP
6 q	798.98	26.96	3.66	26.30	31.53	35.85	46.00	-10.15 QP

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Test Mode: 15; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01663AT
Test Mode: 15

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.77	17.16	0.66	27.21	31.50	22.11	40.00	-17.89 QP
2	45.22	13.55	0.73	27.18	35.24	22.34	40.00	-17.66 QP
3	78.69	10.57	1.00	27.07	39.06	23.56	40.00	-16.44 QP
4 q	98.83	12.98	1.13	27.00	39.98	27.09	43.50	-16.41 QP
5	138.39	11.88	1.35	26.85	39.16	25.54	43.50	-17.96 QP
6	272.28	17.88	2.00	26.31	29.35	22.92	46.00	-23.08 QP



7.4 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 60.3 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	14	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT20); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.

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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500166306

Page: 103 of 160

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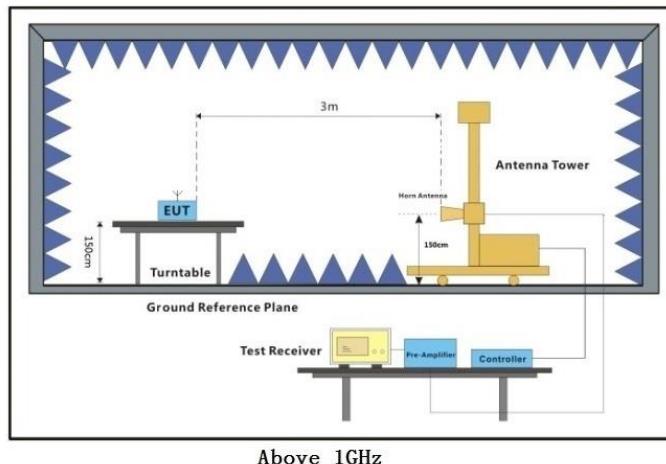
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		rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Pre-scan	20	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report.
Final test	21	Charge+TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). 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 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.



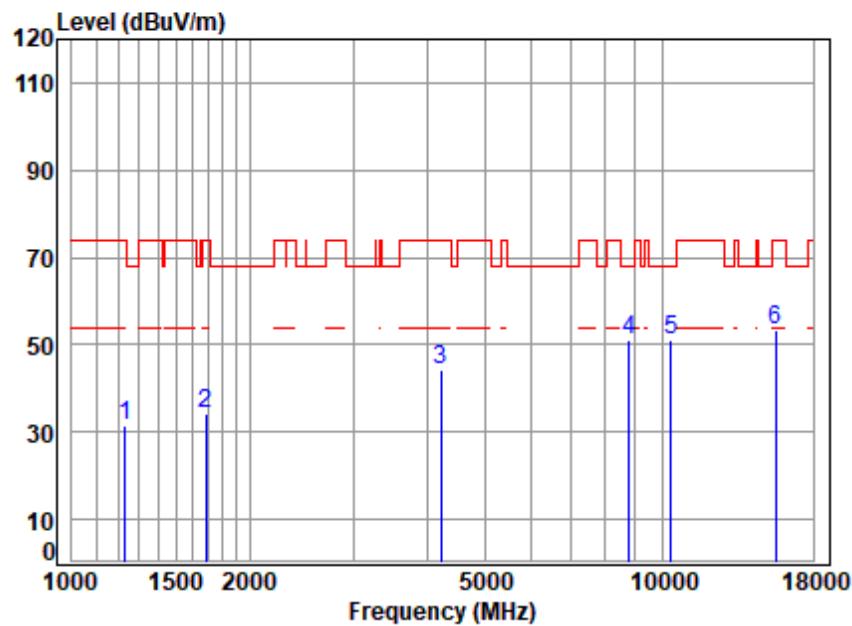
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

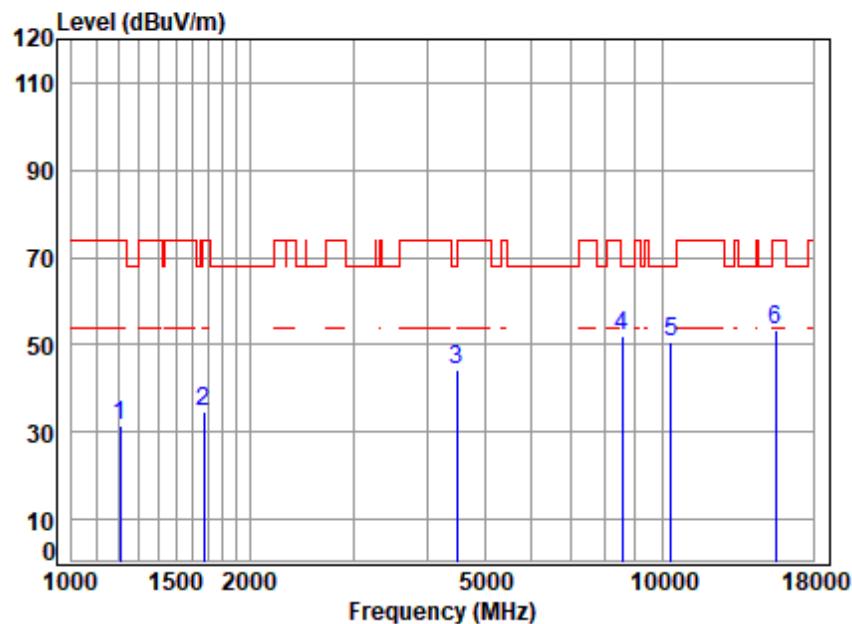
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.35	2.85	24.46	37.62	41.63	31.32	74.00	-42.68	peak
2	1687.35	3.47	26.77	36.43	40.25	34.06	74.00	-39.94	peak
3	4218.19	6.50	33.47	34.48	38.56	44.05	74.00	-29.95	peak
4	8789.52	9.95	36.70	35.62	40.09	51.12	68.20	-17.08	peak
5 q	10360.00	10.81	37.46	35.74	38.70	51.23	68.20	-16.97	peak
6	15540.00	13.61	40.94	37.47	36.23	53.31	74.00	-20.69	peak

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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

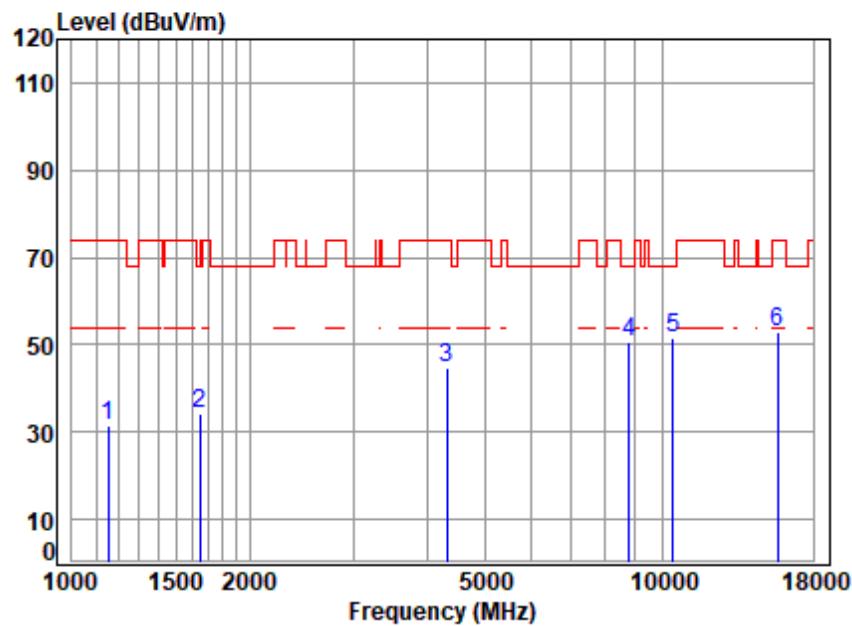
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.68	2.81	24.41	37.69	41.73	31.26	74.00	-42.74	peak
2	1672.78	3.46	26.75	36.46	40.80	34.55	74.00	-39.45	peak
3	4482.15	6.75	33.50	34.66	38.61	44.20	68.20	-24.00	peak
4 q	8539.10	9.72	36.50	35.76	41.63	52.09	68.20	-16.11	peak
5	10360.00	10.81	37.46	35.74	37.92	50.45	68.20	-17.75	peak
6	15540.00	13.61	40.94	37.47	36.18	53.26	74.00	-20.74	peak

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Shenzhen Branch Testing Center EEC Laboratory.

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5200 TX RSE
Note : 5G WIFI 11AC20

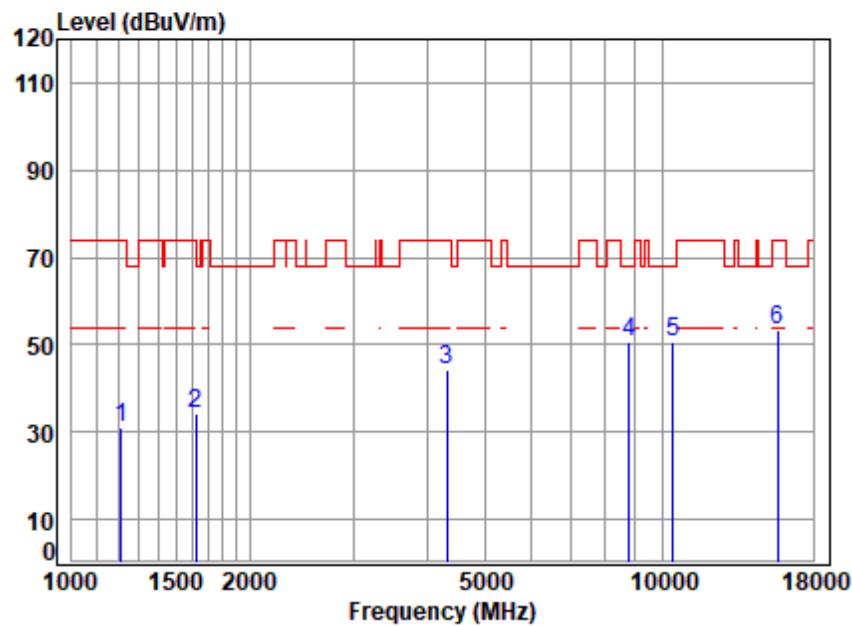
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.15	2.72	24.21	37.87	42.55	31.61	74.00	-42.39	peak
2	1648.78	3.43	26.70	36.52	40.74	34.35	68.20	-33.85	peak
3	4316.86	6.60	33.60	34.55	38.98	44.63	74.00	-29.37	peak
4	8789.52	9.95	36.70	35.62	39.73	50.76	68.20	-17.44	peak
5 q	10440.00	10.87	37.50	35.77	39.08	51.68	68.20	-16.52	peak
6	15660.00	13.75	41.06	37.52	35.47	52.76	74.00	-21.24	peak

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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5200 TX RSE
Note : 5G WIFI 11AC20

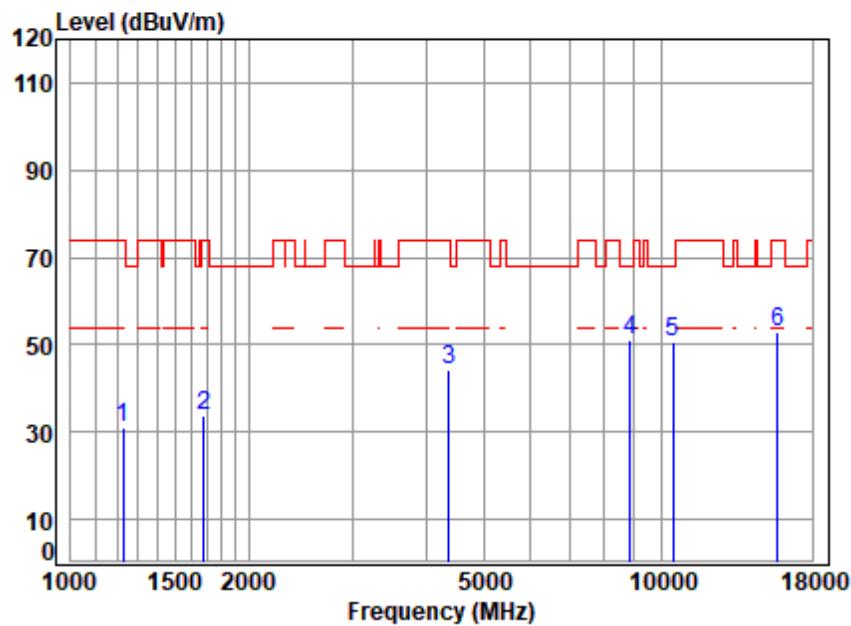
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.68	2.82	24.43	37.67	41.36	30.94	74.00	-43.06	peak
2	1625.12	3.40	26.60	36.57	40.70	34.13	74.00	-39.87	peak
3	4316.86	6.60	33.60	34.55	38.60	44.25	74.00	-29.75	peak
4	8789.52	9.95	36.70	35.62	39.71	50.74	68.20	-17.46	peak
5 q	10440.00	10.87	37.50	35.77	38.21	50.81	68.20	-17.39	peak
6	15660.00	13.75	41.06	37.52	35.88	53.17	74.00	-20.83	peak

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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

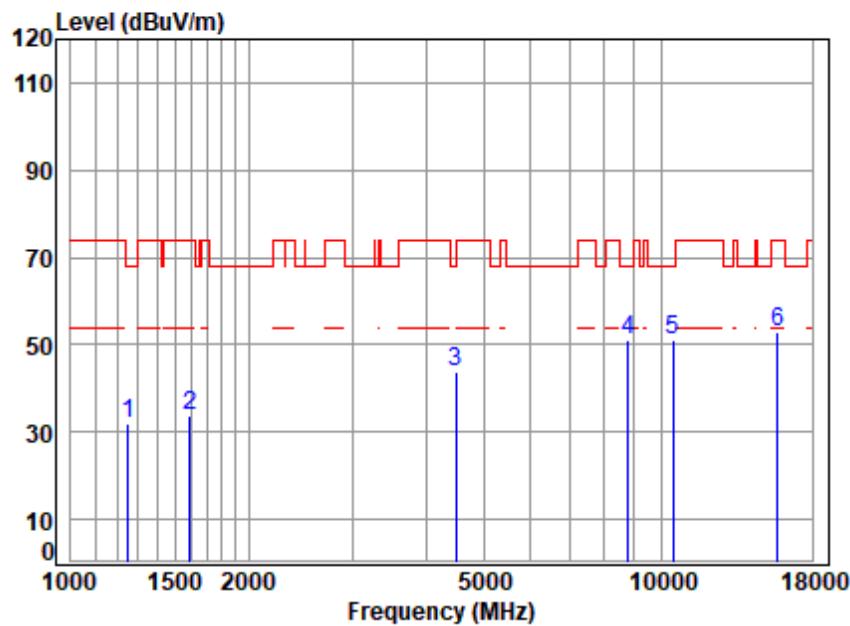
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.79	2.85	24.46	37.63	41.21	30.89	74.00	-43.11	peak
2	1677.62	3.46	26.76	36.45	40.11	33.88	74.00	-40.12	peak
3	4367.06	6.65	33.57	34.59	38.55	44.18	74.00	-29.82	peak
4 q	8866.06	10.01	36.70	35.58	39.79	50.92	68.20	-17.28	peak
5	10480.00	10.90	37.50	35.79	38.17	50.78	68.20	-17.42	peak
6	15720.00	13.83	41.14	37.54	35.29	52.72	74.00	-21.28	peak

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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5240 TX RSE
 Note : 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 1252.89	2.89	24.51	37.55	41.88	31.73	68.20	-36.47 peak
2 1592.57	3.36	26.41	36.65	40.75	33.87	74.00	-40.13 peak
3 4495.13	6.77	33.50	34.67	38.00	43.60	68.20	-24.60 peak
4 8789.52	9.95	36.70	35.62	39.91	50.94	68.20	-17.26 peak
5 q 10480.00	10.90	37.50	35.79	38.36	50.97	68.20	-17.23 peak
6 15720.00	13.83	41.14	37.54	35.50	52.93	74.00	-21.07 peak

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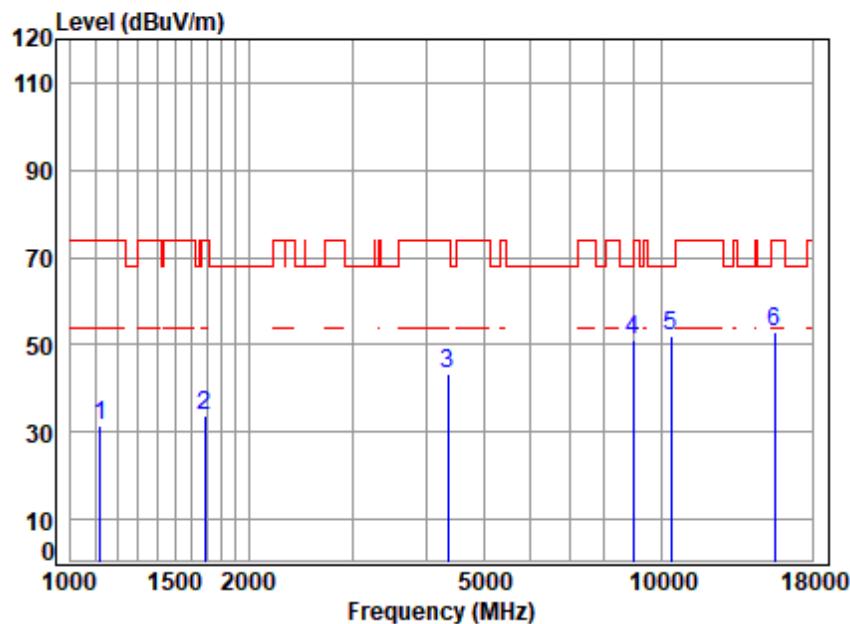
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5190 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 1122.56	2.67	24.09	37.96	42.54	31.34	74.00	-42.66 peak
2 1687.35	3.47	26.77	36.43	40.00	33.81	74.00	-40.19 peak
3 4354.45	6.63	33.59	34.58	37.93	43.57	74.00	-30.43 peak
4 8969.16	10.10	36.70	35.52	39.95	51.23	68.20	-16.97 peak
5 q 10380.00	10.83	37.48	35.74	39.66	52.23	68.20	-15.97 peak
6 15570.00	13.65	40.97	37.48	35.86	53.00	74.00	-21.00 peak

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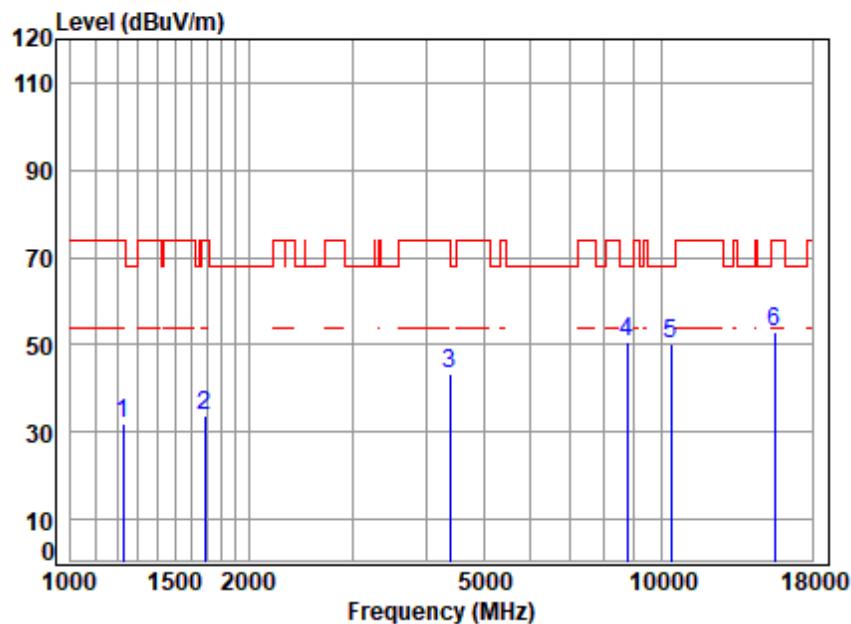
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

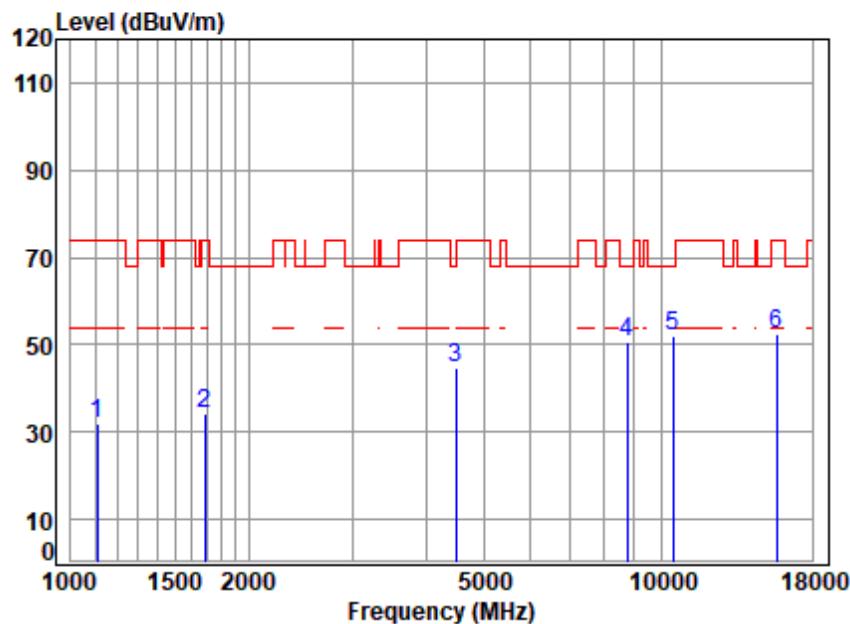
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.79	2.85	24.46	37.63	42.24	31.92	74.00	-42.08	peak
2	1687.35	3.47	26.77	36.43	39.79	33.60	74.00	-40.40	peak
3	4392.38	6.67	33.52	34.60	37.89	43.48	74.00	-30.52	peak
4 q	8764.15	9.92	36.70	35.63	39.77	50.76	68.20	-17.44	peak
5	10380.00	10.83	37.48	35.74	37.81	50.38	68.20	-17.82	peak
6	15570.00	13.65	40.97	37.48	35.95	53.09	74.00	-20.91	peak

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Shenzhen Branch Testing Center EEC Laboratory

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5230 TX RSE
 Note : 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1109.66	2.65	24.04	38.01	43.43	32.11	74.00	-41.89	peak
2 1687.35	3.47	26.77	36.43	40.50	34.31	74.00	-39.69	peak
3 4495.13	6.77	33.50	34.67	39.11	44.71	68.20	-23.49	peak
4 8738.85	9.90	36.70	35.65	39.67	50.62	68.20	-17.58	peak
5 q 10460.00	10.89	37.50	35.78	39.45	52.06	68.20	-16.14	peak
6 15690.00	13.79	41.09	37.53	35.28	52.63	74.00	-21.37	peak

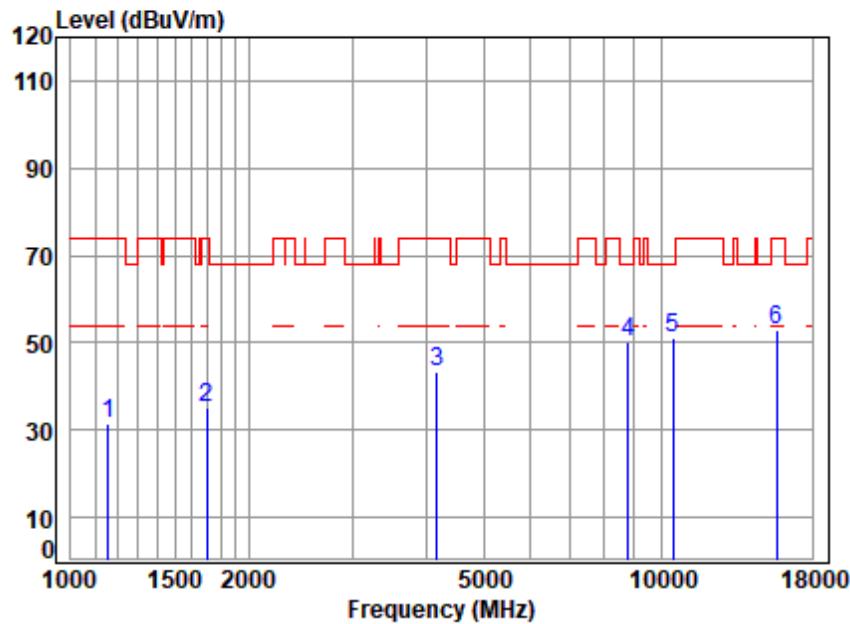
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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5230 TX RSE
 Note : 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 1155.48	2.73	24.22	37.86	42.53	31.62	74.00	-42.38	peak
2 1697.13	3.49	26.79	36.41	41.18	35.05	74.00	-38.95	peak
3 4169.70	6.45	33.22	34.45	38.04	43.26	74.00	-30.74	peak
4 8789.52	9.95	36.70	35.62	39.19	50.22	68.20	-17.98	peak
5 q 10460.00	10.89	37.50	35.78	38.44	51.05	68.20	-17.15	peak
6 15690.00	13.79	41.09	37.53	35.52	52.87	74.00	-21.13	peak

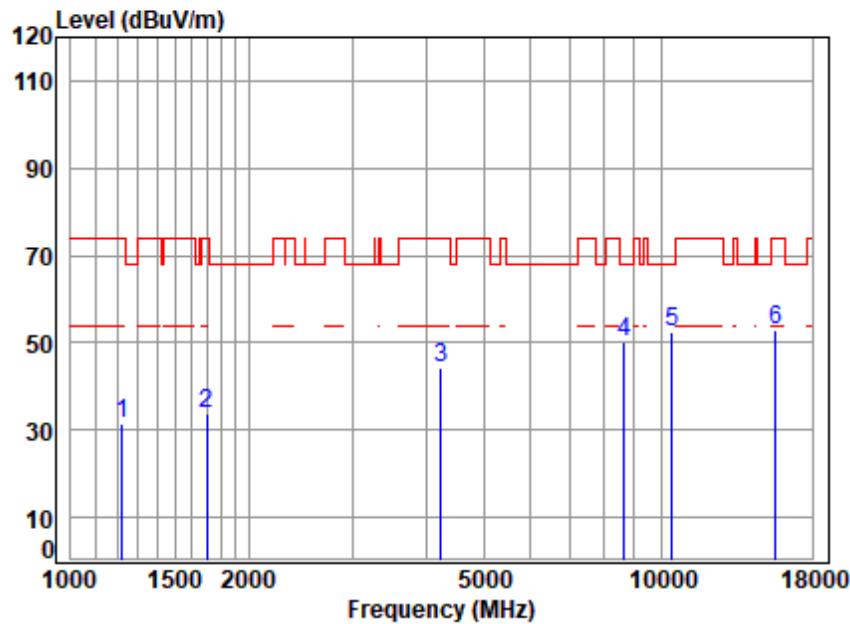
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Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



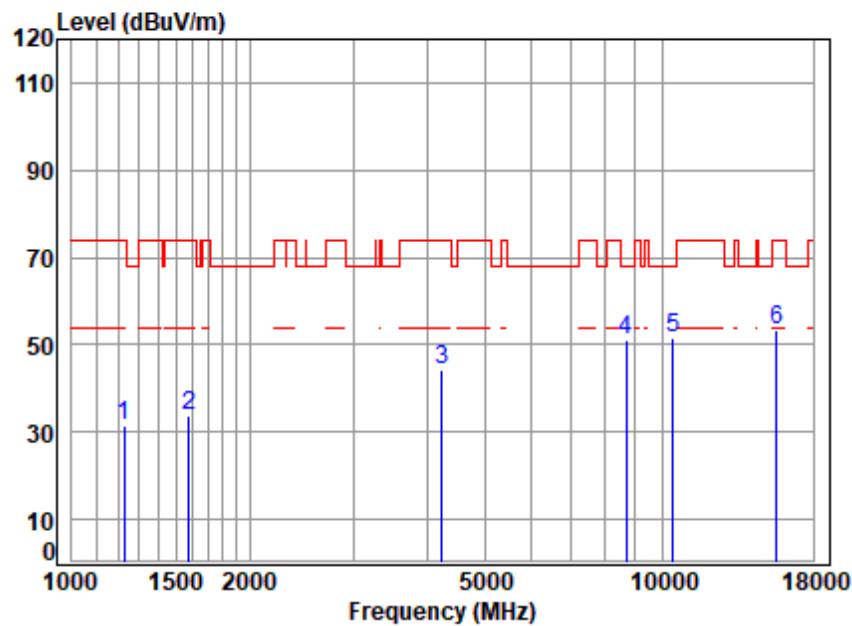
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5210 TX RSE
 Note : 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1220.71	2.83	24.44	37.65	41.65	31.27	74.00	-42.73 peak
2 1697.13	3.49	26.79	36.41	39.96	33.83	74.00	-40.17 peak
3 4230.40	6.51	33.52	34.49	38.72	44.26	74.00	-29.74 peak
4 8663.40	9.84	36.63	35.69	39.52	50.30	68.20	-17.90 peak
5 q 10420.00	10.86	37.50	35.76	39.71	52.31	68.20	-15.89 peak
6 15630.00	13.72	41.03	37.50	35.75	53.00	74.00	-21.00 peak

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Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

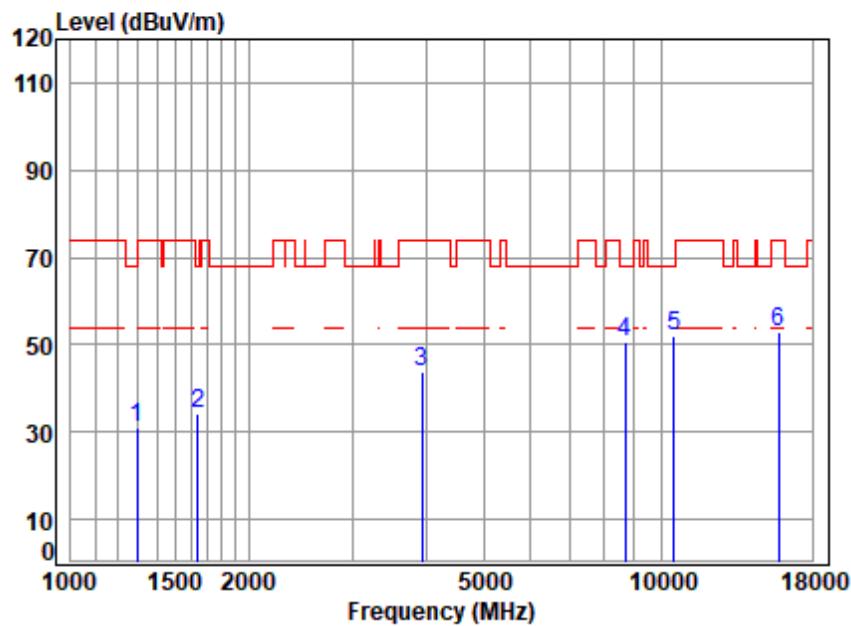
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.79	2.85	24.46	37.63	41.68	31.36	74.00	-42.64	peak
2	1578.82	3.34	26.25	36.68	40.87	33.78	74.00	-40.22	peak
3	4230.40	6.51	33.52	34.49	38.63	44.17	74.00	-29.83	peak
4	8688.48	9.86	36.68	35.68	40.13	50.99	68.20	-17.21	peak
5	10420.00	10.86	37.50	35.76	38.82	51.42	68.20	-16.78	peak
6	15630.00	13.72	41.03	37.50	36.03	53.28	74.00	-20.72	peak

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

Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20

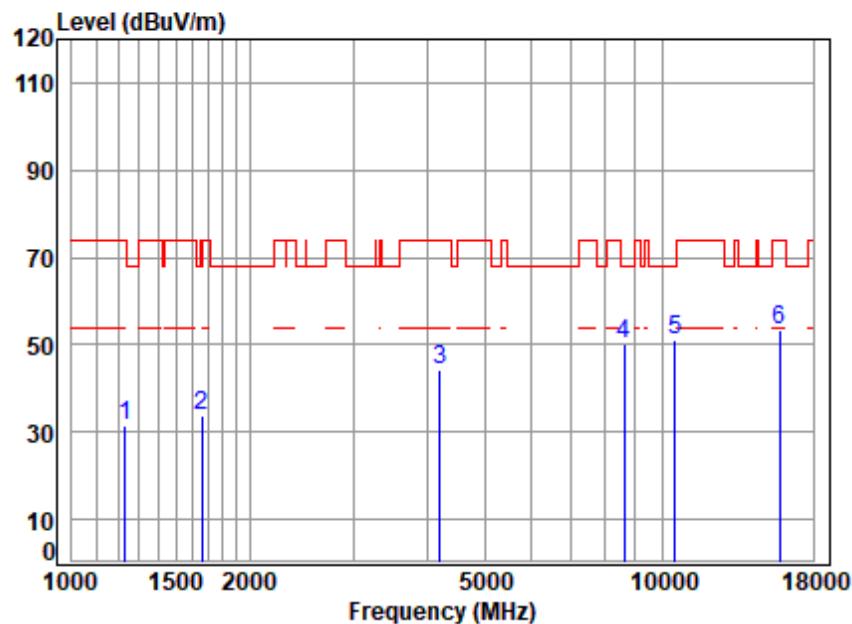
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.10	2.95	24.69	37.42	40.72	30.94	68.20	-37.26	peak
2	1644.02	3.42	26.68	36.53	40.55	34.12	68.20	-34.08	peak
3	3935.49	6.20	32.60	34.39	39.34	43.75	74.00	-30.25	peak
4	8688.48	9.86	36.68	35.68	39.57	50.43	68.20	-17.77	peak
5 q	10520.00	10.93	37.52	35.80	39.46	52.11	68.20	-16.09	peak
6	15780.00	13.90	41.26	37.56	35.14	52.74	74.00	-21.26	peak

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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20

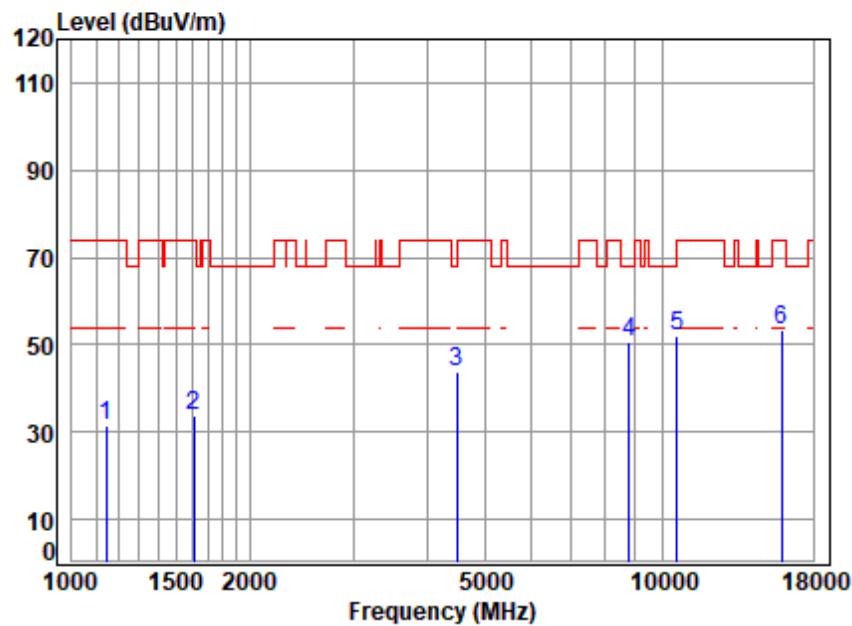
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.35	2.85	24.46	37.62	42.00	31.69	74.00	-42.31	peak
2	1663.14	3.45	26.73	36.48	39.88	33.58	74.00	-40.42	peak
3	4193.87	6.48	33.36	34.47	38.80	44.17	74.00	-29.83	peak
4	8613.47	9.79	36.60	35.72	39.61	50.28	68.20	-17.92	peak
5 q	10520.00	10.93	37.52	35.80	38.52	51.17	68.20	-17.03	peak
6	15780.00	13.90	41.26	37.56	35.70	53.30	74.00	-20.70	peak

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

Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20

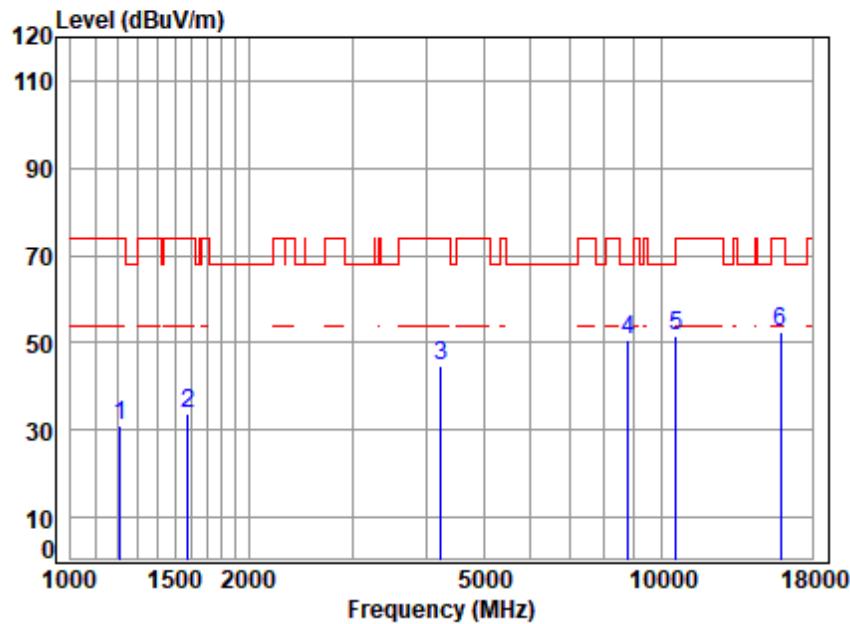
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.51	2.71	24.18	37.89	42.67	31.67	74.00	-42.33	peak
2	1611.09	3.38	26.54	36.60	40.55	33.87	74.00	-40.13	peak
3	4495.13	6.77	33.50	34.67	38.41	44.01	68.20	-24.19	peak
4	8789.52	9.95	36.70	35.62	39.41	50.44	68.20	-17.76	peak
5 q	10600.00	10.98	37.60	35.84	39.05	51.79	68.20	-16.41	peak
6	15900.00	14.04	41.50	37.61	35.51	53.44	74.00	-20.56	peak

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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5300 TX RSE
 Note : 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 1213.68	2.82	24.43	37.67	41.67	31.25	74.00	-42.75 peak
2 1578.82	3.34	26.25	36.68	40.80	33.71	74.00	-40.29 peak
3 4230.40	6.51	33.52	34.49	39.10	44.64	74.00	-29.36 peak
4 8789.52	9.95	36.70	35.62	39.70	50.73	68.20	-17.47 peak
5 q 10600.00	10.98	37.60	35.84	38.91	51.65	68.20	-16.55 peak
6 15900.00	14.04	41.50	37.61	34.63	52.56	74.00	-21.44 peak

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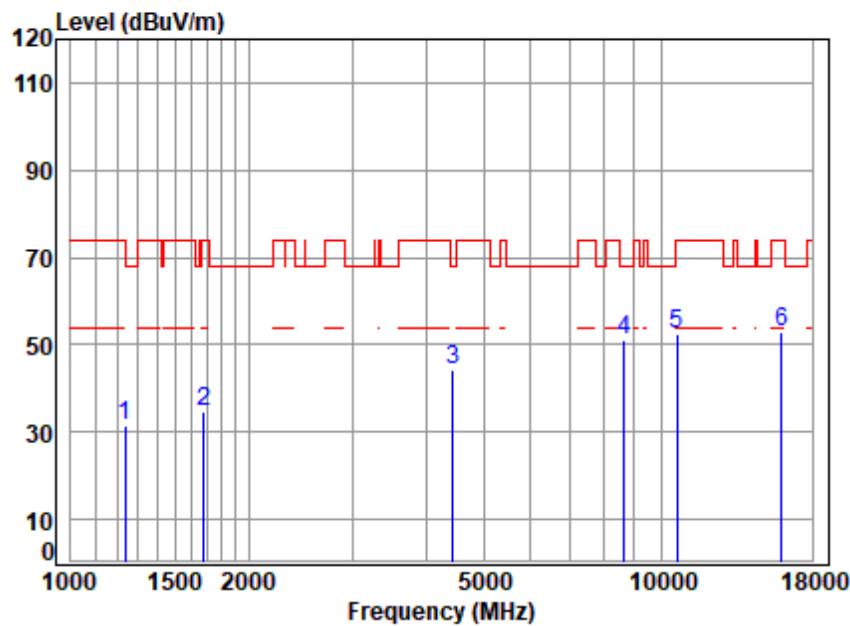
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 Shenzhen Branch Inspection & Testing Services

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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5320 TX RSE
 Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1234.91	2.86	24.47	37.61	41.71	31.43	74.00 -42.57 peak
2	1682.48	3.47	26.77	36.44	40.67	34.47	74.00 -39.53 peak
3	4443.45	6.72	33.50	34.64	38.47	44.05	68.20 -24.15 peak
4 q	8663.40	9.84	36.63	35.69	40.16	50.94	68.20 -17.26 peak
5	10640.00	11.01	37.60	35.85	39.65	52.41	74.00 -21.59 peak
6	15960.00	14.11	41.56	37.63	34.85	52.89	74.00 -21.11 peak



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 Shenzhen Branch Inspection & Testing Services

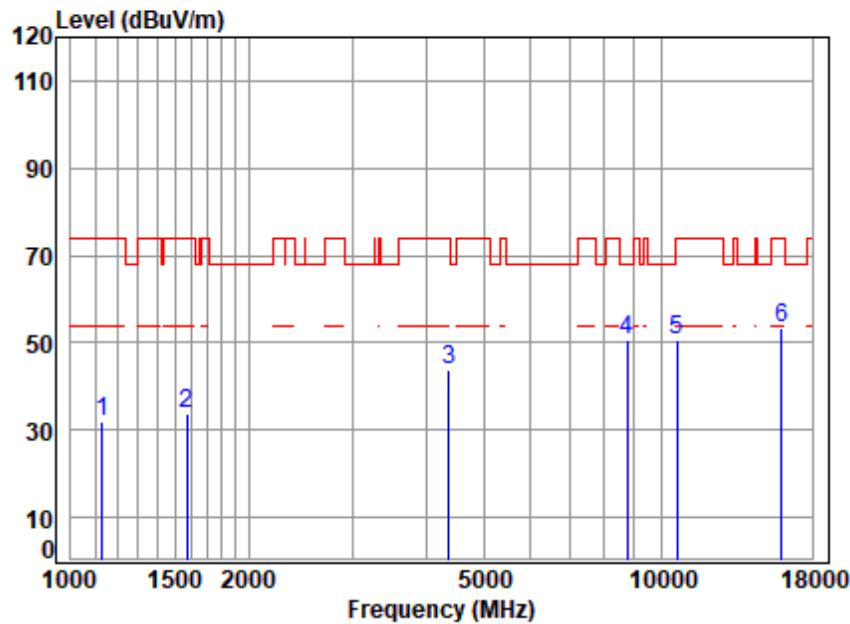
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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5320 TX RSE
 Note : 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 1129.07	2.68	24.12	37.94	42.88	31.74	74.00	-42.26 peak
2 1574.27	3.34	26.19	36.69	40.87	33.71	74.00	-40.29 peak
3 4367.06	6.65	33.57	34.59	37.96	43.59	74.00	-30.41 peak
4 q 8764.15	9.92	36.70	35.63	39.81	50.80	68.20	-17.40 peak
5 10640.00	11.01	37.60	35.85	38.08	50.84	74.00	-23.16 peak
6 15960.00	14.11	41.56	37.63	35.31	53.35	74.00	-20.65 peak

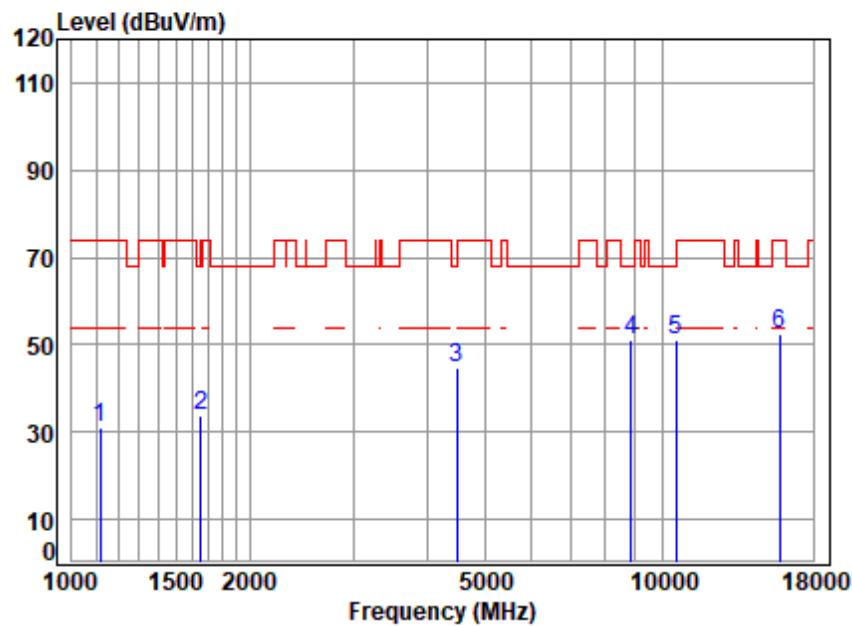
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40

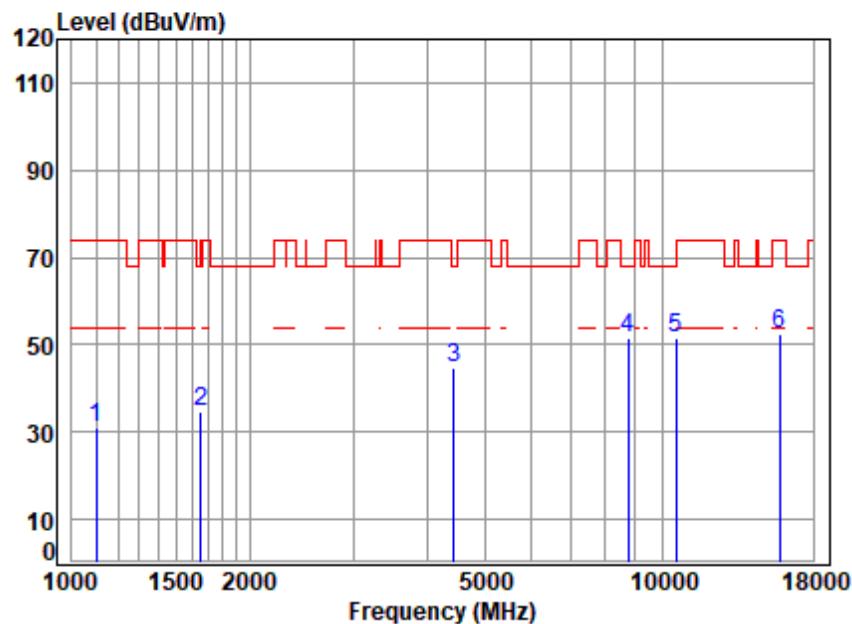
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.09	2.66	24.07	37.99	42.22	30.96	74.00	-43.04	peak
2	1653.55	3.43	26.71	36.51	40.28	33.91	68.20	-34.29	peak
3	4482.15	6.75	33.50	34.66	38.93	44.52	68.20	-23.68	peak
4 q	8840.47	9.99	36.70	35.59	39.93	51.03	68.20	-17.17	peak
5	10540.00	10.94	37.54	35.81	38.30	50.97	68.20	-17.23	peak
6	15810.00	13.93	41.32	37.58	34.81	52.48	74.00	-21.52	peak

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Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40

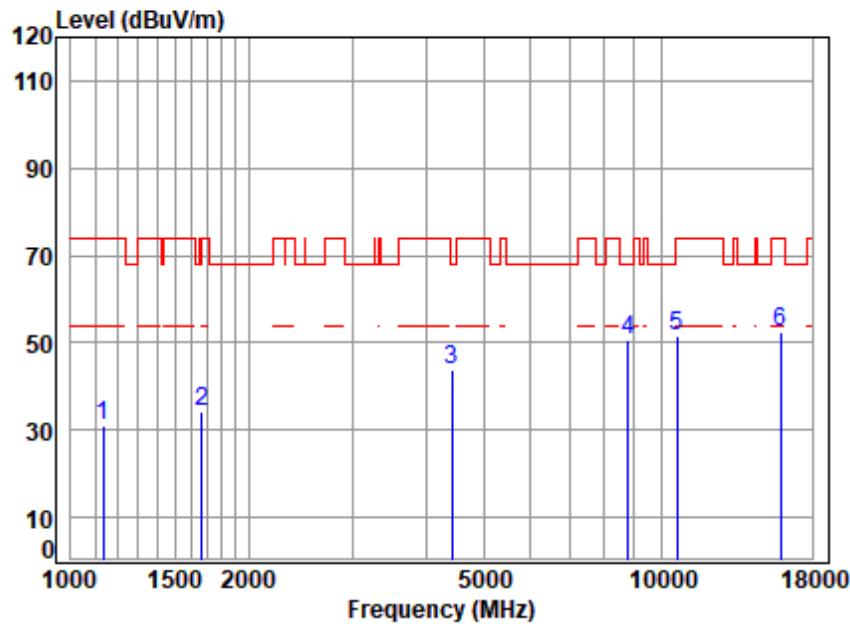
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1100.08	2.63	24.00	38.04	42.25	30.84	74.00	-43.16	peak
2	1653.55	3.43	26.71	36.51	40.85	34.48	68.20	-33.72	peak
3	4443.45	6.72	33.50	34.64	39.27	44.85	68.20	-23.35	peak
4	8738.85	9.90	36.70	35.65	40.47	51.42	68.20	-16.78	peak
5 q	10540.00	10.94	37.54	35.81	38.88	51.55	68.20	-16.65	peak
6	15810.00	13.93	41.32	37.58	34.87	52.54	74.00	-21.46	peak

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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

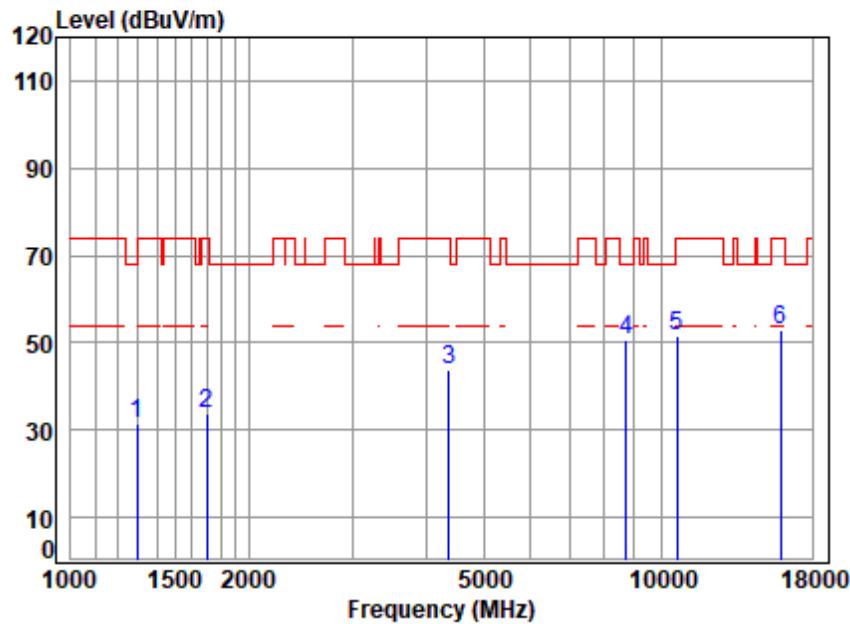


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5310 TX RSE
 Note : 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1135.62	2.69	24.14	37.92	42.04	30.95	74.00 -43.05 peak
2	1667.95	3.45	26.74	36.47	40.58	34.30	74.00 -39.70 peak
3	4417.84	6.69	33.50	34.62	38.44	44.01	68.20 -24.19 peak
4 q	8789.52	9.95	36.70	35.62	39.56	50.59	68.20 -17.61 peak
5	10620.00	11.00	37.60	35.85	38.80	51.55	74.00 -22.45 peak
6	15930.00	14.08	41.53	37.62	34.66	52.65	74.00 -21.35 peak



Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5310 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 1293.36	2.95	24.67	37.43	41.43	31.62	68.20	-36.58 peak
2 1697.13	3.49	26.79	36.41	39.89	33.76	74.00	-40.24 peak
3 4367.06	6.65	33.57	34.59	38.40	44.03	74.00	-29.97 peak
4 q 8713.63	9.88	36.70	35.66	39.76	50.68	68.20	-17.52 peak
5 10620.00	11.00	37.60	35.85	38.82	51.57	74.00	-22.43 peak
6 15930.00	14.08	41.53	37.62	35.07	53.06	74.00	-20.94 peak

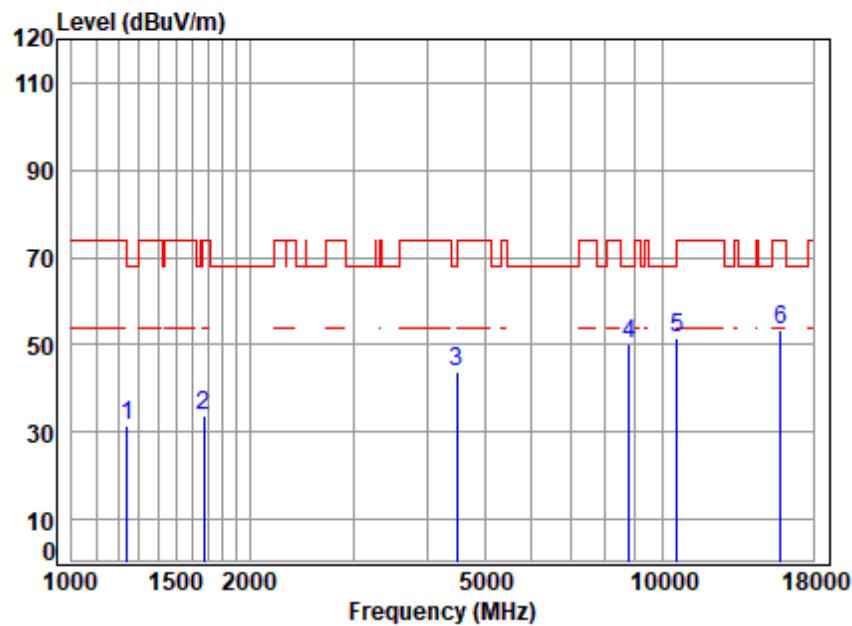
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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80

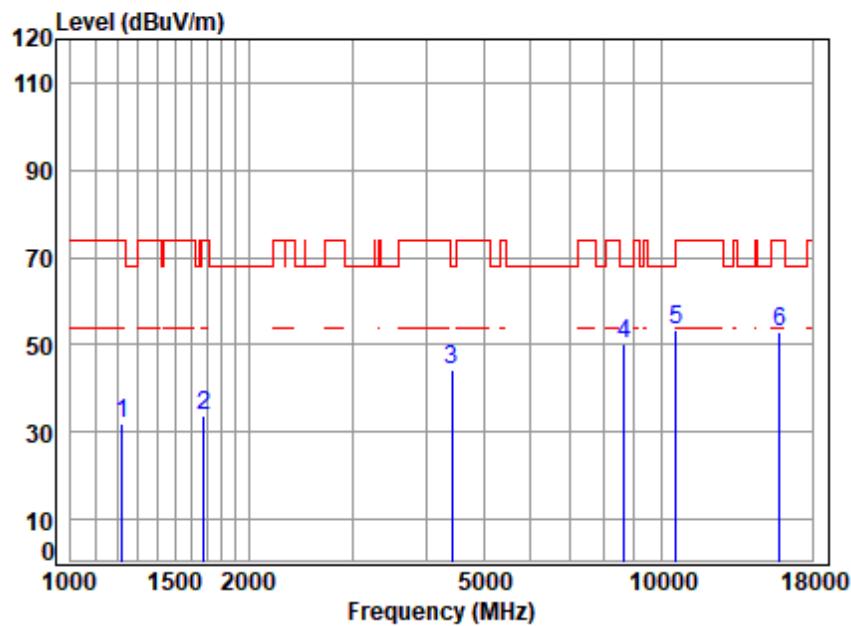
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.07	2.87	24.48	37.58	41.62	31.39	68.20	-36.81	peak
2	1672.78	3.46	26.75	36.46	40.11	33.86	74.00	-40.14	peak
3	4495.13	6.77	33.50	34.67	38.32	43.92	68.20	-24.28	peak
4	8789.52	9.95	36.70	35.62	39.31	50.34	68.20	-17.86	peak
5 q	10580.00	10.97	37.58	35.83	38.74	51.46	68.20	-16.74	peak
6	15870.00	14.01	41.44	37.60	35.40	53.25	74.00	-20.75	peak

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The logo is circular with a red border. Inside the border, the text "SGS-CSTC" is written vertically on the left, and "Shenzhen Branch" is written vertically on the right. The center of the logo features a large red five-pointed star. Below the star, the text "检验检测专用章" (Inspection & Testing Special Seal) is written in a rectangular box, followed by "Inspection & Testing Services" and "SGS-CSTC Shenzhen Branch".

Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80

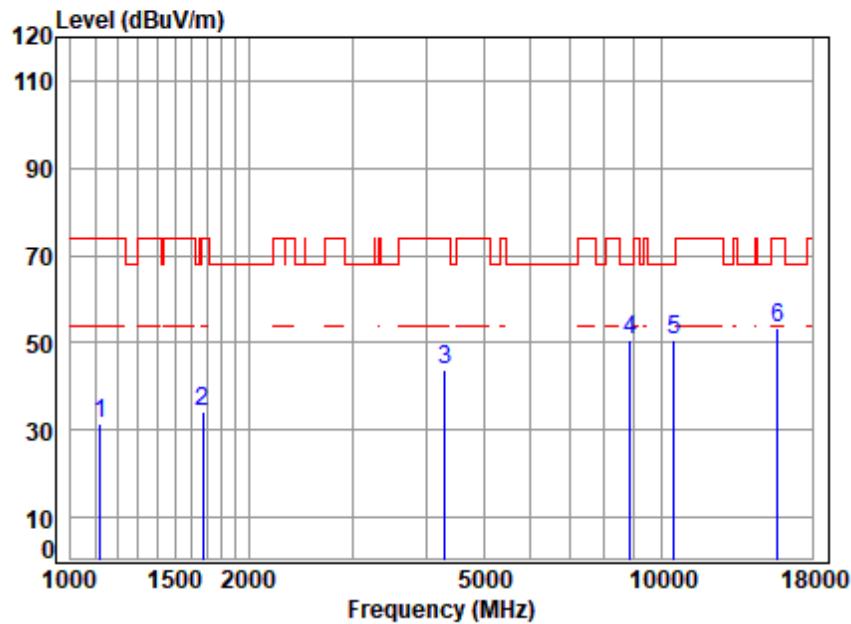
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1224.25	2.84	24.45	37.64	42.50	32.15	74.00	-41.85 peak
2 1682.48	3.47	26.77	36.44	40.19	33.99	74.00	-40.01 peak
3 4417.84	6.69	33.50	34.62	38.53	44.10	68.20	-24.10 peak
4 8663.40	9.84	36.63	35.69	39.55	50.33	68.20	-17.87 peak
5 q 10580.00	10.97	37.58	35.83	40.50	53.22	68.20	-14.98 peak
6 15870.00	14.01	41.44	37.60	34.89	52.74	74.00	-21.26 peak

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Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5250 TX RSE
Note : 5G WIFI 11AC160

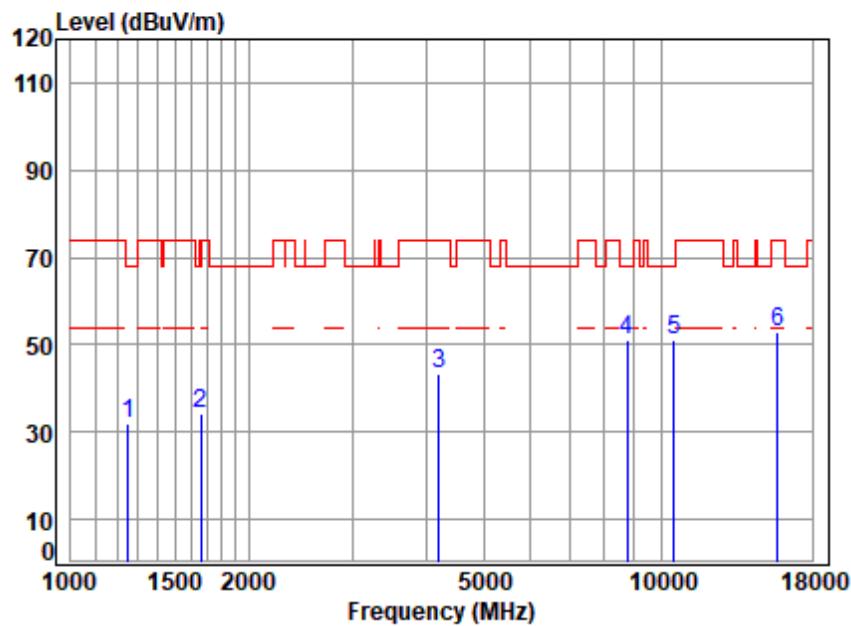
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122.56	2.67	24.09	37.96	42.46	31.26	74.00	-42.74	peak
2	1672.78	3.46	26.75	36.46	40.64	34.39	74.00	-39.61	peak
3	4304.40	6.59	33.60	34.54	38.22	43.87	74.00	-30.13	peak
4 q	8866.06	10.01	36.70	35.58	39.66	50.79	68.20	-17.41	peak
5	10500.00	10.91	37.50	35.80	37.87	50.48	68.20	-17.72	peak
6	15750.00	13.86	41.20	37.55	35.76	53.27	74.00	-20.73	peak

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Shenzhen Branch Testing Center EEC Laboratory.

Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5250 TX RSE
Note : 5G WIFI 11AC160

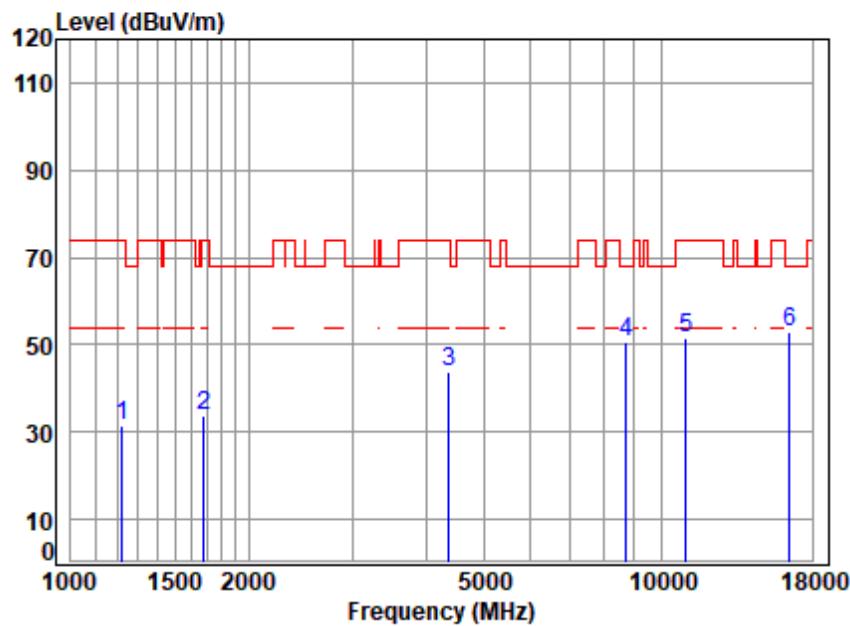
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.27	2.88	24.50	37.56	42.08	31.90	68.20	-36.30	peak
2	1663.14	3.45	26.73	36.48	40.36	34.06	74.00	-39.94	peak
3	4193.87	6.48	33.36	34.47	38.16	43.53	74.00	-30.47	peak
4	8738.85	9.90	36.70	35.65	40.00	50.95	68.20	-17.25	peak
5	10500.00	10.91	37.50	35.80	38.38	50.99	68.20	-17.21	peak
6	15750.00	13.86	41.20	37.55	35.35	52.86	74.00	-21.14	peak

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Shenzhen Branch Testing Center EEC Laboratory.

Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



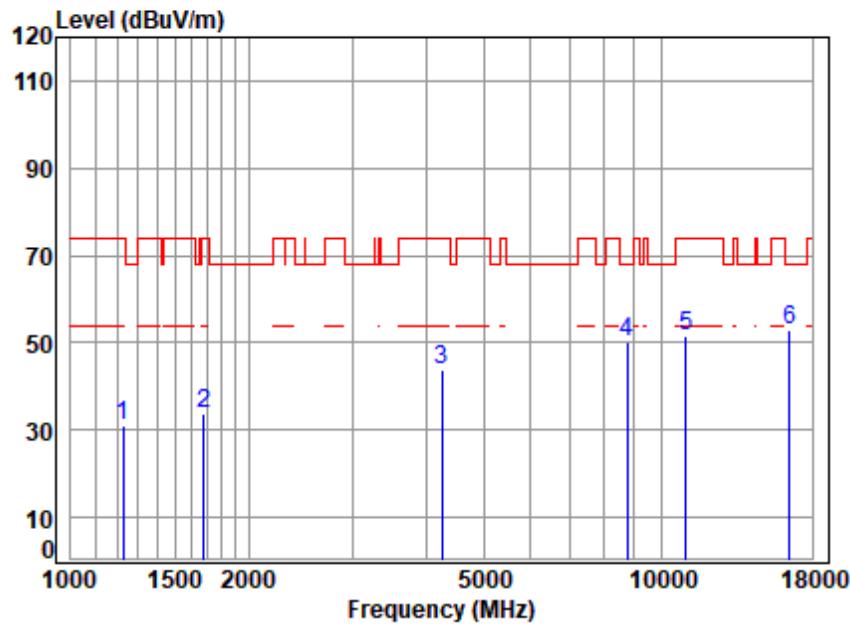
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5500 TX RSE
 Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1224.25	2.84	24.45	37.64	41.76	31.41	74.00	-42.59 peak
2 1677.62	3.46	26.76	36.45	40.01	33.78	74.00	-40.22 peak
3 4367.06	6.65	33.57	34.59	38.03	43.66	74.00	-30.34 peak
4 8713.63	9.88	36.70	35.66	39.54	50.46	68.20	-17.74 peak
5 11000.00	11.26	37.70	36.00	38.73	51.69	74.00	-22.31 peak
6 q 16500.00	14.16	42.40	37.56	34.11	53.11	68.20	-15.09 peak

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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5500 TX RSE
 Note : 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 1227.79	2.85	24.46	37.63	41.34	31.02	74.00	-42.98 peak
2 1682.48	3.47	26.77	36.44	40.00	33.80	74.00	-40.20 peak
3 4254.92	6.54	33.60	34.51	38.13	43.76	74.00	-30.24 peak
4 8764.15	9.92	36.70	35.63	39.26	50.25	68.20	-17.95 peak
5 11000.00	11.26	37.70	36.00	38.43	51.39	74.00	-22.61 peak
6 q 16500.00	14.16	42.40	37.56	33.87	52.87	68.20	-15.33 peak

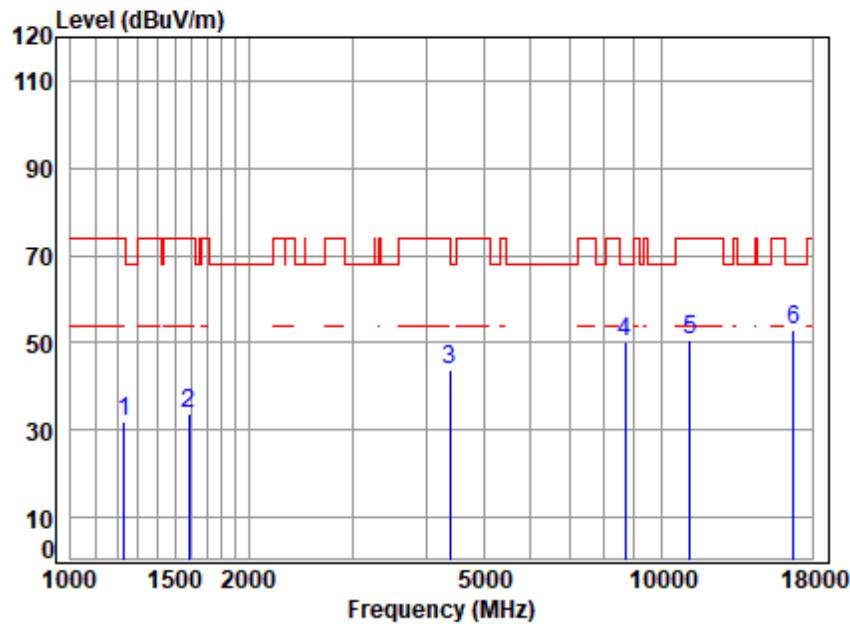
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle

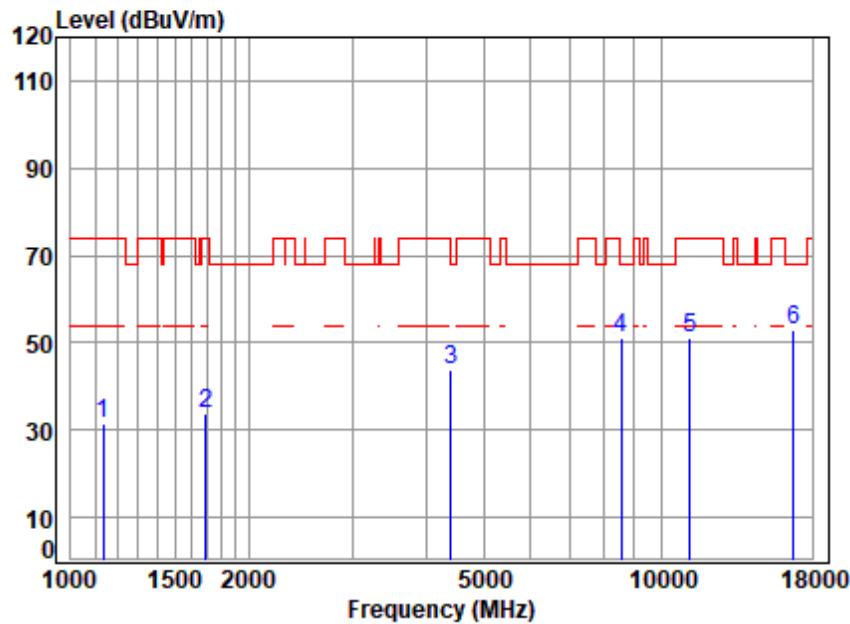


Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5580 TX RSE
Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1231.35	2.85	24.46	37.62	42.37	32.06	74.00	-41.94 peak
2 1583.39	3.35	26.30	36.67	41.01	33.99	74.00	-40.01 peak
3 4392.38	6.67	33.52	34.60	38.25	43.84	74.00	-30.16 peak
4 8688.48	9.86	36.68	35.68	39.26	50.12	68.20	-18.08 peak
5 11160.00	11.36	37.80	36.10	37.78	50.84	74.00	-23.16 peak
6 q 16740.00	14.16	42.80	37.52	33.52	52.96	68.20	-15.24 peak



Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5580 TX RSE
 Note : 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 1135.62	2.69	24.14	37.92	42.62	31.53	74.00	-42.47	peak
2 1692.23	3.48	26.78	36.42	39.88	33.72	74.00	-40.28	peak
3 4405.09	6.68	33.50	34.61	38.30	43.87	68.20	-24.33	peak
4 8539.10	9.72	36.50	35.76	40.54	51.00	68.20	-17.20	peak
5 11160.00	11.36	37.80	36.10	37.86	50.92	74.00	-23.08	peak
6 q 16740.00	14.16	42.80	37.52	33.68	53.12	68.20	-15.08	peak



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Shenzhen Branch 13th Floor, 13th Floor, CCC Laboratory

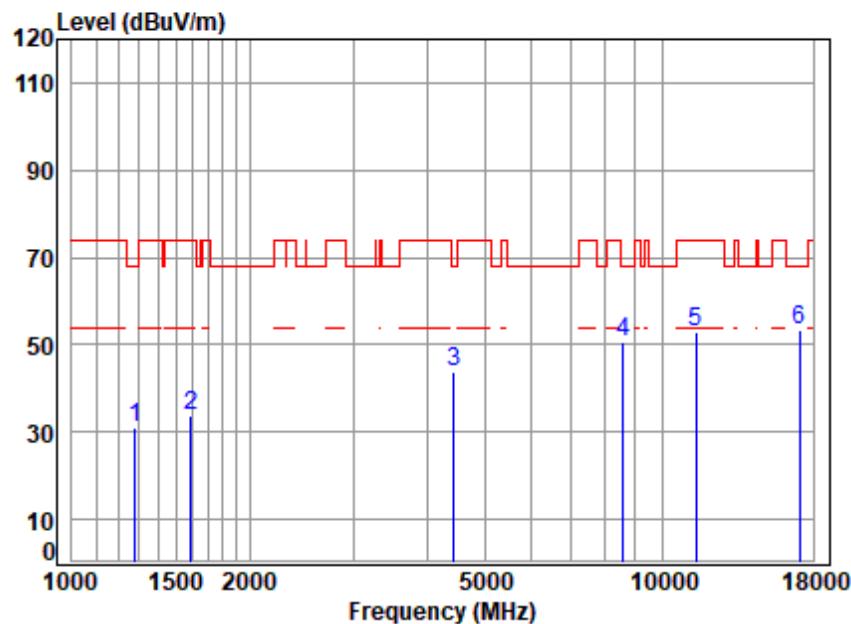
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5700 TX RSE
Note : 5G WIFI 11AC20

		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	1282.19	2.93	24.63	37.46	41.13	31.23	68.20	-36.97	peak
2	1592.57	3.36	26.41	36.65	40.59	33.71	74.00	-40.29	peak
3	4430.63	6.71	33.50	34.63	38.20	43.78	68.20	-24.42	peak
4	8588.61	9.77	36.58	35.73	40.00	50.62	68.20	-17.58	peak
5	11400.00	11.52	37.90	36.24	39.95	53.13	74.00	-20.87	peak
6 q	17100.00	14.17	43.10	37.47	33.37	53.17	68.20	-15.03	peak

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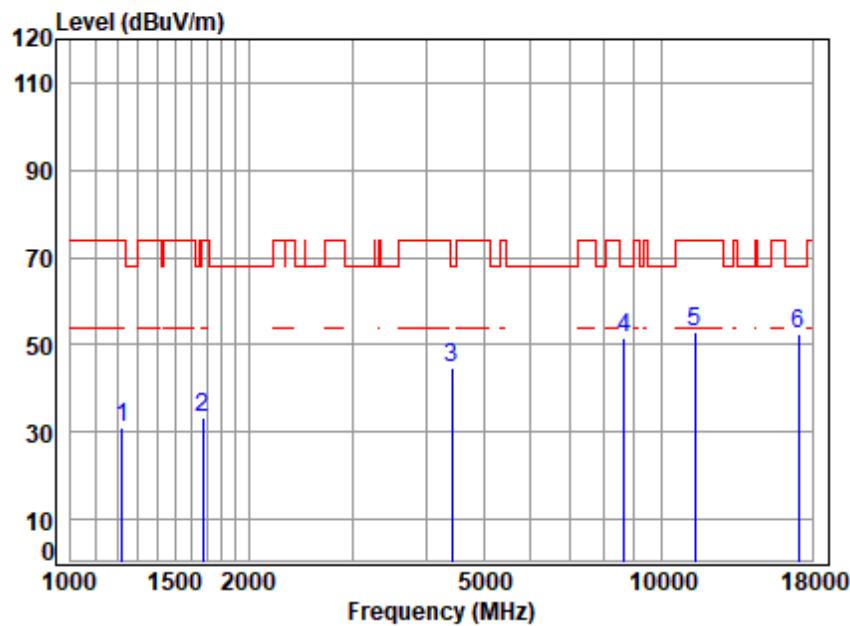
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500166306

Page: 137 of 160

Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5700 TX RSE
Note : 5G WIFI 11AC20

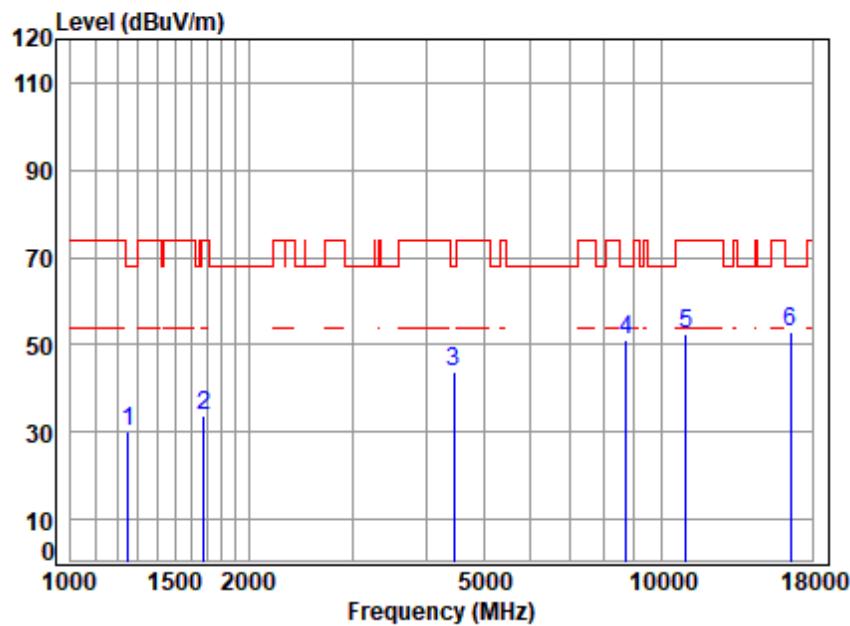
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.25	2.84	24.45	37.64	41.17	30.82	74.00	-43.18	peak
2	1672.78	3.46	26.75	36.46	39.56	33.31	74.00	-40.69	peak
3	4417.84	6.69	33.50	34.62	39.02	44.59	68.20	-23.61	peak
4	8638.40	9.81	36.60	35.71	40.69	51.39	68.20	-16.81	peak
5	11400.00	11.52	37.90	36.24	39.69	52.87	74.00	-21.13	peak
6 q	17100.00	14.17	43.10	37.47	32.86	52.66	68.20	-15.54	peak

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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5510 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 1249.27	2.88	24.50	37.56	40.49	30.31	68.20	-37.89 peak
2 1682.48	3.47	26.77	36.44	39.92	33.72	74.00	-40.28 peak
3 4456.32	6.73	33.50	34.64	38.10	43.69	68.20	-24.51 peak
4 8713.63	9.88	36.70	35.66	40.22	51.14	68.20	-17.06 peak
5 11020.00	11.27	37.72	36.01	39.36	52.34	74.00	-21.66 peak
6 q 16530.00	14.16	42.43	37.56	33.70	52.73	68.20	-15.47 peak

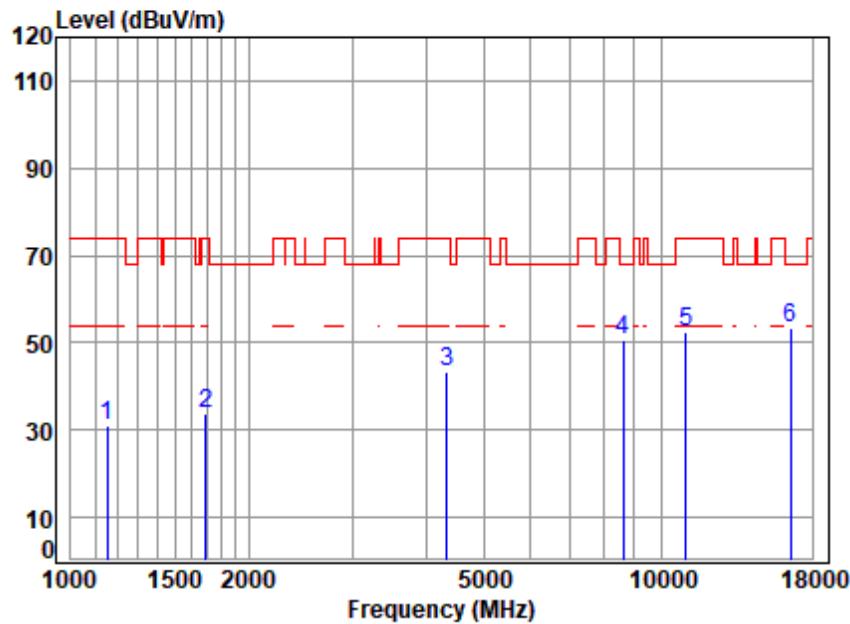
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5510 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 1152.15	2.72	24.21	37.87	42.05	31.11	74.00	-42.89 peak
2 1692.23	3.48	26.78	36.42	40.09	33.93	74.00	-40.07 peak
3 4341.89	6.62	33.60	34.57	37.83	43.48	74.00	-30.52 peak
4 8613.47	9.79	36.60	35.72	39.94	50.61	68.20	-17.59 peak
5 11020.00	11.27	37.72	36.01	39.63	52.61	74.00	-21.39 peak
6 q 16530.00	14.16	42.43	37.56	34.13	53.16	68.20	-15.04 peak



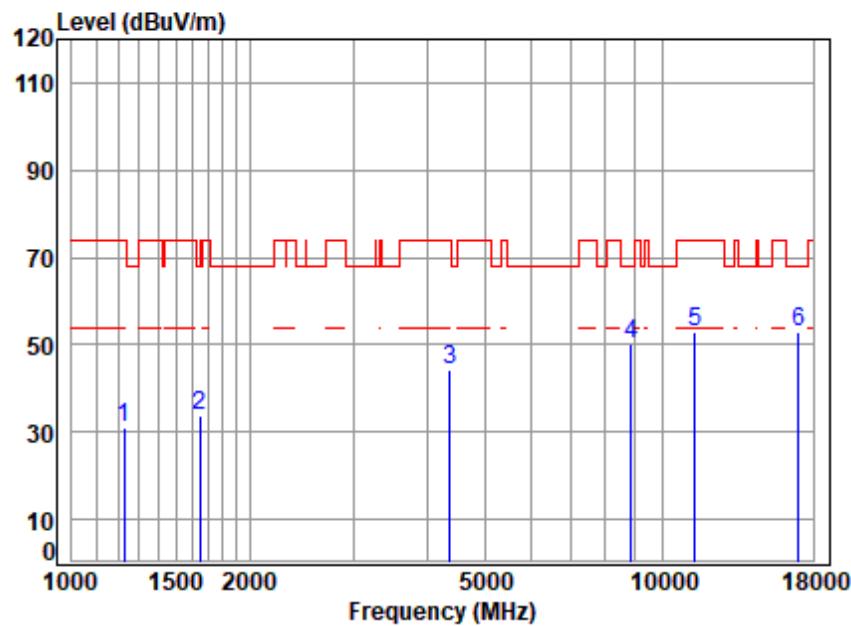
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5670 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.79	2.85	24.46	37.63	41.49	31.17	74.00	-42.83	peak
2	1648.78	3.43	26.70	36.52	40.23	33.84	68.20	-34.36	peak
3	4367.06	6.65	33.57	34.59	38.53	44.16	74.00	-29.84	peak
4	8840.47	9.99	36.70	35.59	39.18	50.28	68.20	-17.92	peak
5	11340.00	11.48	37.84	36.20	39.99	53.11	74.00	-20.89	peak
6 q	17010.00	14.16	42.92	37.48	33.53	53.13	68.20	-15.07	peak

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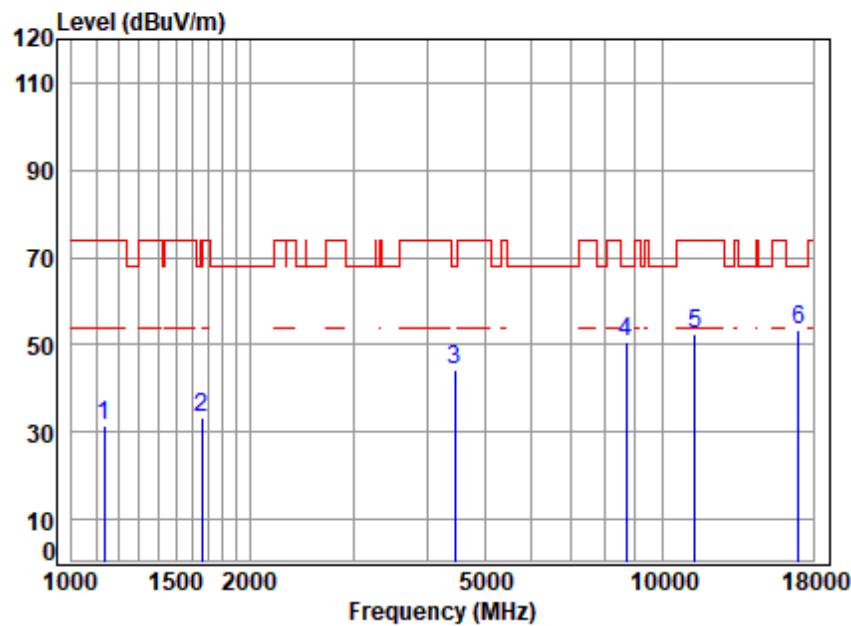
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500166306

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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5670 TX RSE
Note : 5G WIFI 11AC40

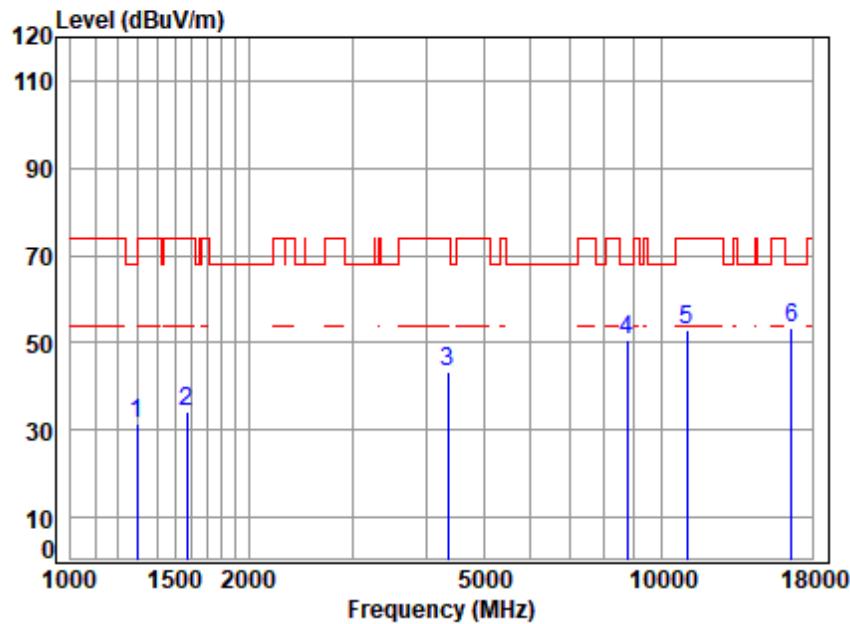
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1135.62	2.69	24.14	37.92	42.39	31.30	74.00	-42.70 peak
2	1658.34	3.44	26.72	36.50	39.84	33.50	68.20	-34.70 peak
3	4456.32	6.73	33.50	34.64	38.47	44.06	68.20	-24.14 peak
4	8688.48	9.86	36.68	35.68	39.65	50.51	68.20	-17.69 peak
5	11340.00	11.48	37.84	36.20	39.25	52.37	74.00	-21.63 peak
6 q	17010.00	14.16	42.92	37.48	33.73	53.33	68.20	-14.87 peak

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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5530 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 1293.36	2.95	24.67	37.43	41.14	31.33	68.20	-36.87 peak
2 1574.27	3.34	26.19	36.69	41.55	34.39	74.00	-39.61 peak
3 4354.45	6.63	33.59	34.58	37.71	43.35	74.00	-30.65 peak
4 8738.85	9.90	36.70	35.65	39.54	50.49	68.20	-17.71 peak
5 11060.00	11.30	37.76	36.04	39.85	52.87	74.00	-21.13 peak
6 q 16590.00	14.16	42.49	37.55	34.34	53.44	68.20	-14.76 peak



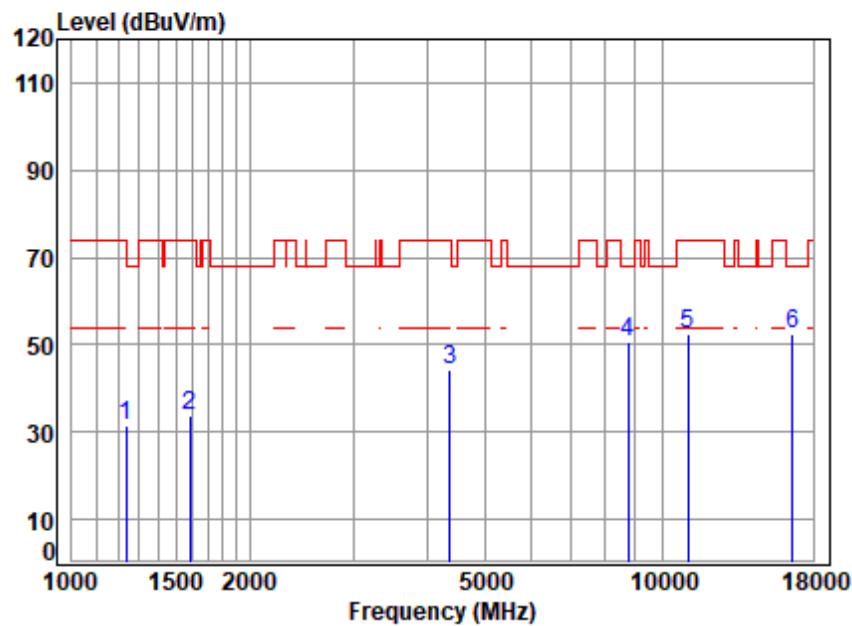
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5530 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.48	2.86	24.48	37.59	41.74	31.49	74.00	-42.51	peak
2	1587.98	3.35	26.36	36.66	40.89	33.94	74.00	-40.06	peak
3	4367.06	6.65	33.57	34.59	38.40	44.03	74.00	-29.97	peak
4	8764.15	9.92	36.70	35.63	39.52	50.51	68.20	-17.69	peak
5	11060.00	11.30	37.76	36.04	39.28	52.30	74.00	-21.70	peak
6 q	16590.00	14.16	42.49	37.55	33.50	52.60	68.20	-15.60	peak

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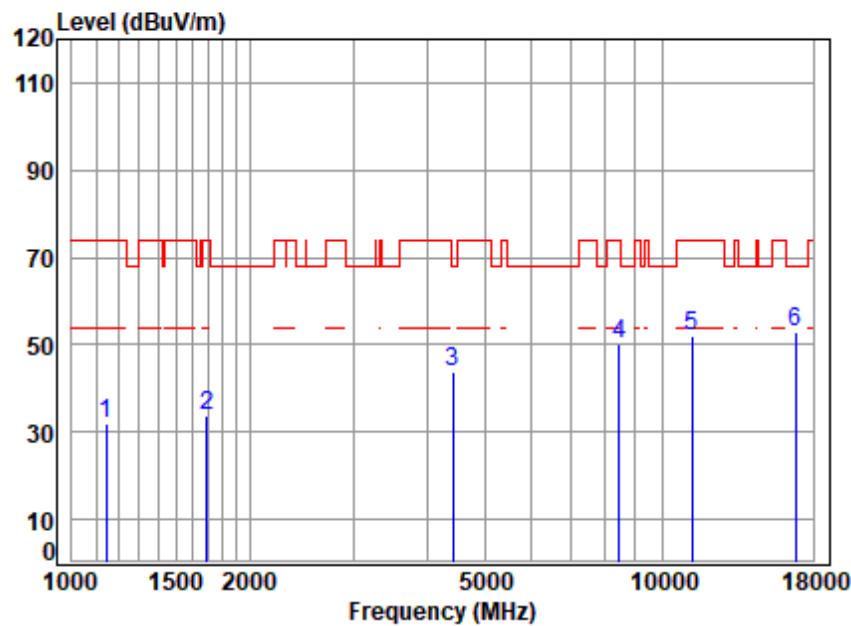
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5610 TX RSE
Note : 5G WIFI 11AC80

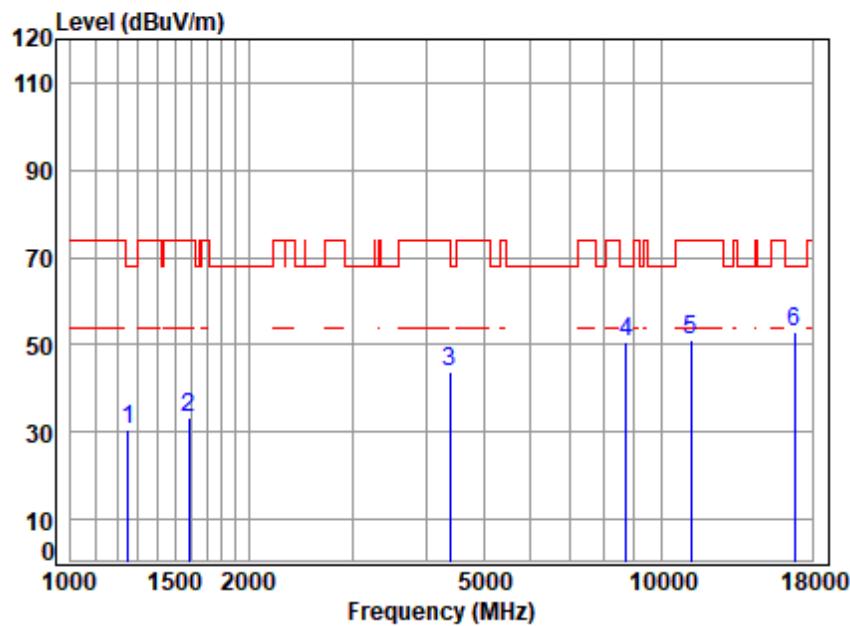
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.20	2.70	24.17	37.90	43.19	32.16	74.00	-41.84	peak
2	1692.23	3.48	26.78	36.42	40.15	33.99	74.00	-40.01	peak
3	4417.84	6.69	33.50	34.62	38.35	43.92	68.20	-24.28	peak
4	8440.95	9.63	36.40	35.82	40.17	50.38	74.00	-23.62	peak
5	11220.00	11.40	37.80	36.13	38.96	52.03	74.00	-21.97	peak
6 q	16830.00	14.16	42.77	37.51	33.61	53.03	68.20	-15.17	peak

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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 01663AT/01664AT
 Mode : 5610 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 1252.89	2.89	24.51	37.55	40.95	30.80	68.20	-37.40 peak
2 1587.98	3.35	26.36	36.66	40.27	33.32	74.00	-40.68 peak
3 4379.70	6.66	33.54	34.59	38.01	43.62	74.00	-30.38 peak
4 8713.63	9.88	36.70	35.66	39.65	50.57	68.20	-17.63 peak
5 11220.00	11.40	37.80	36.13	38.18	51.25	74.00	-22.75 peak
6 q 16830.00	14.16	42.77	37.51	33.48	52.90	68.20	-15.30 peak

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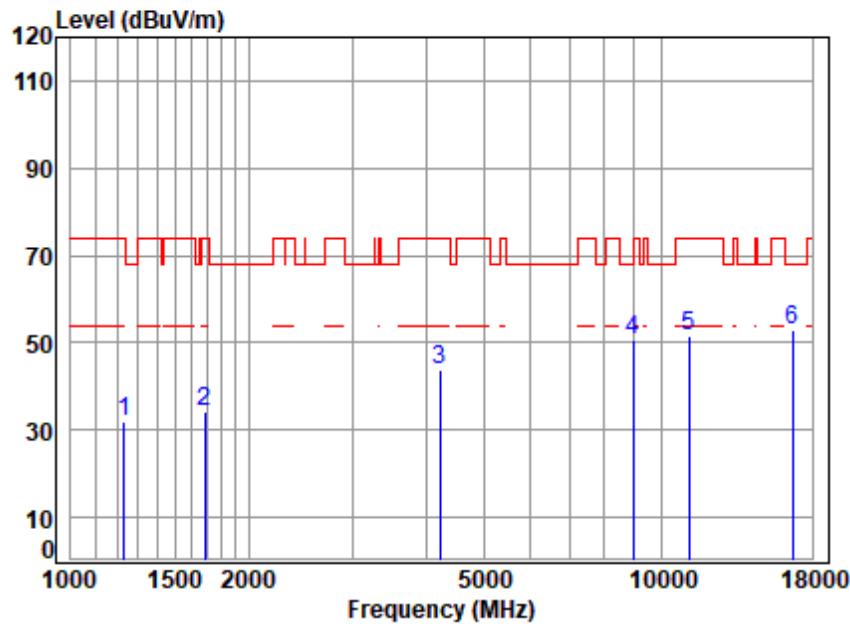
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5570 TX RSE
 Note : 5G WIFI 11AC160

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1231.35	2.85	24.46	37.62	42.12	31.81	74.00 -42.19 peak
2	1687.35	3.47	26.77	36.43	40.32	34.13	74.00 -39.87 peak
3	4218.19	6.50	33.47	34.48	38.32	43.81	74.00 -30.19 peak
4	8969.16	10.10	36.70	35.52	39.51	50.79	68.20 -17.41 peak
5	11140.00	11.35	37.80	36.08	38.45	51.52	74.00 -22.48 peak
6	16710.00	14.16	42.80	37.53	33.35	52.78	68.20 -15.42 peak



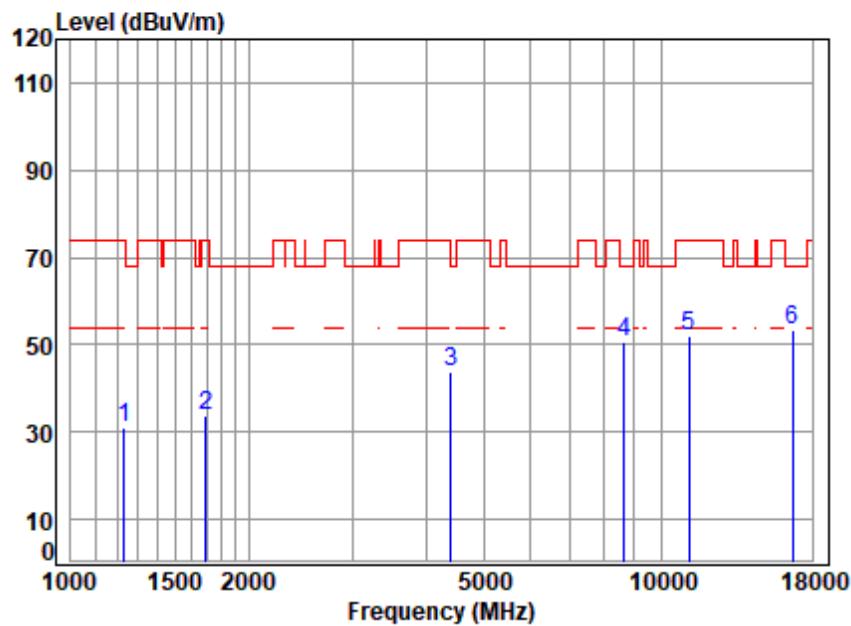
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 19; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5570 TX RSE
Note : 5G WIFI 11AC160

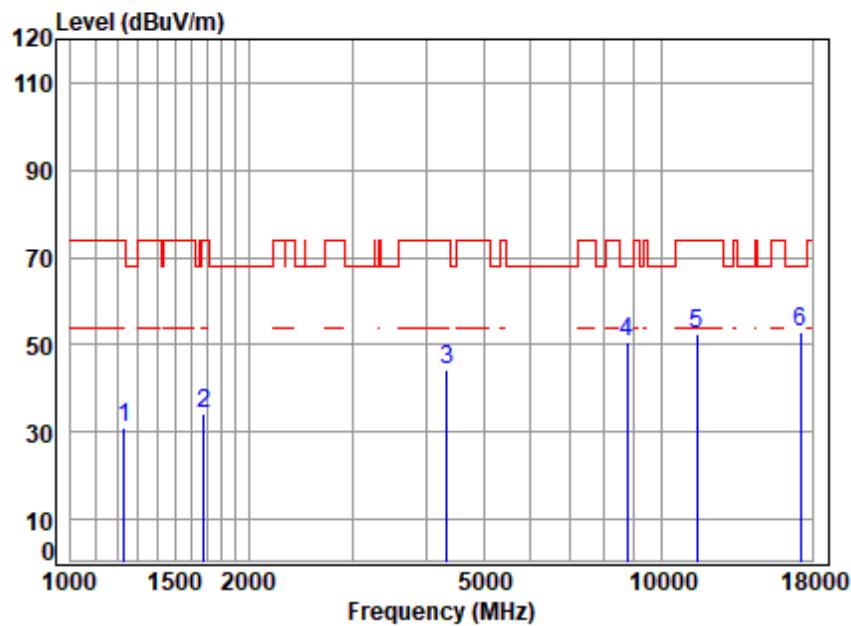
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.35	2.85	24.46	37.62	41.41	31.10	74.00	-42.90	peak
2	1692.23	3.48	26.78	36.42	40.02	33.86	74.00	-40.14	peak
3	4405.09	6.68	33.50	34.61	38.09	43.66	68.20	-24.54	peak
4	8638.40	9.81	36.60	35.71	39.85	50.55	68.20	-17.65	peak
5	11140.00	11.35	37.80	36.08	39.12	52.19	74.00	-21.81	peak
6 q	16710.00	14.16	42.80	37.53	33.99	53.42	68.20	-14.78	peak

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Shenzhen Branch Testing Center ITC Laboratory

Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

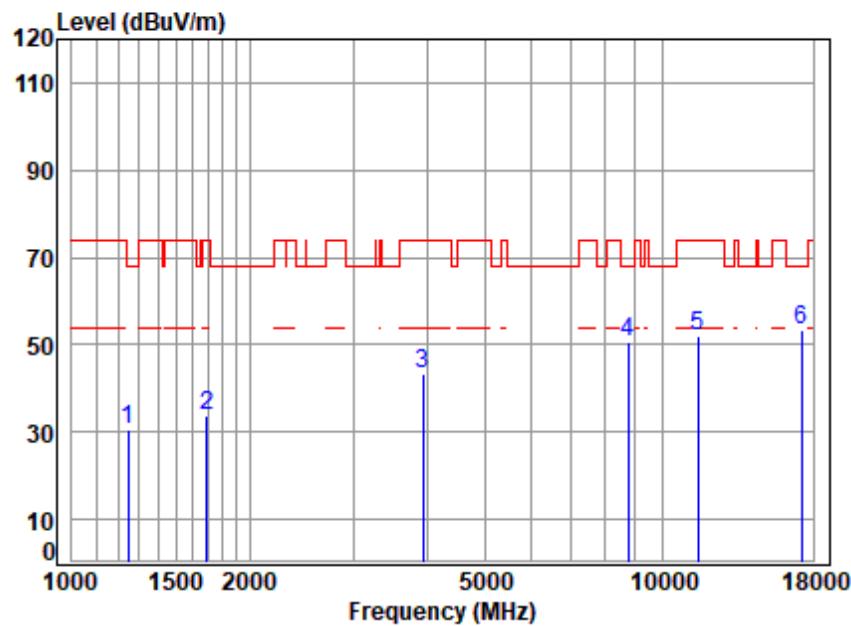
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.35	2.85	24.46	37.62	41.25	30.94	74.00	-43.06	peak
2	1682.48	3.47	26.77	36.44	40.59	34.39	74.00	-39.61	peak
3	4341.89	6.62	33.60	34.57	38.53	44.18	74.00	-29.82	peak
4	8738.85	9.90	36.70	35.65	39.64	50.59	68.20	-17.61	peak
5	11490.00	11.58	37.99	36.29	39.28	52.56	74.00	-21.44	peak
6 q	17235.00	14.18	43.34	37.46	32.76	52.82	68.20	-15.38	peak

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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

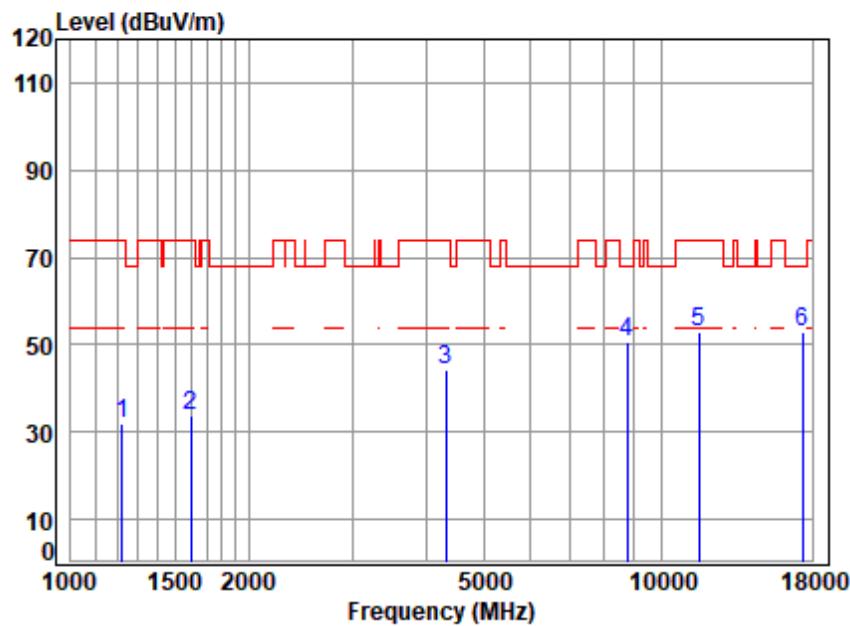
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.66	2.87	24.49	37.57	40.89	30.68	68.20	-37.52	peak
2	1692.23	3.48	26.78	36.42	39.75	33.59	74.00	-40.41	peak
3	3935.49	6.20	32.60	34.39	39.04	43.45	74.00	-30.55	peak
4	8764.15	9.92	36.70	35.63	39.85	50.84	68.20	-17.36	peak
5	11490.00	11.58	37.99	36.29	38.82	52.10	74.00	-21.90	peak
6 q	17235.00	14.18	43.34	37.46	33.21	53.27	68.20	-14.93	peak

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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5785 TX RSE
 Note : 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 1220.71	2.83	24.44	37.65	42.21	31.83	74.00	-42.17 peak
2 1597.18	3.37	26.47	36.64	40.70	33.90	74.00	-40.10 peak
3 4316.86	6.60	33.60	34.55	38.74	44.39	74.00	-29.61 peak
4 8764.15	9.92	36.70	35.63	39.77	50.76	68.20	-17.44 peak
5 11570.00	11.63	38.00	36.34	39.46	52.75	74.00	-21.25 peak
6 q 17355.00	14.19	43.46	37.45	32.93	53.13	68.20	-15.07 peak

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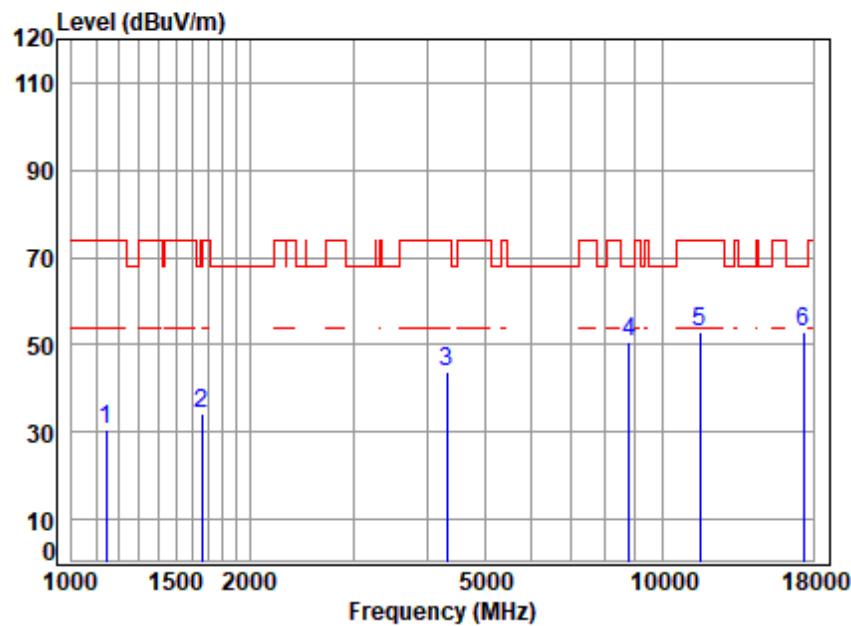
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500166306

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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

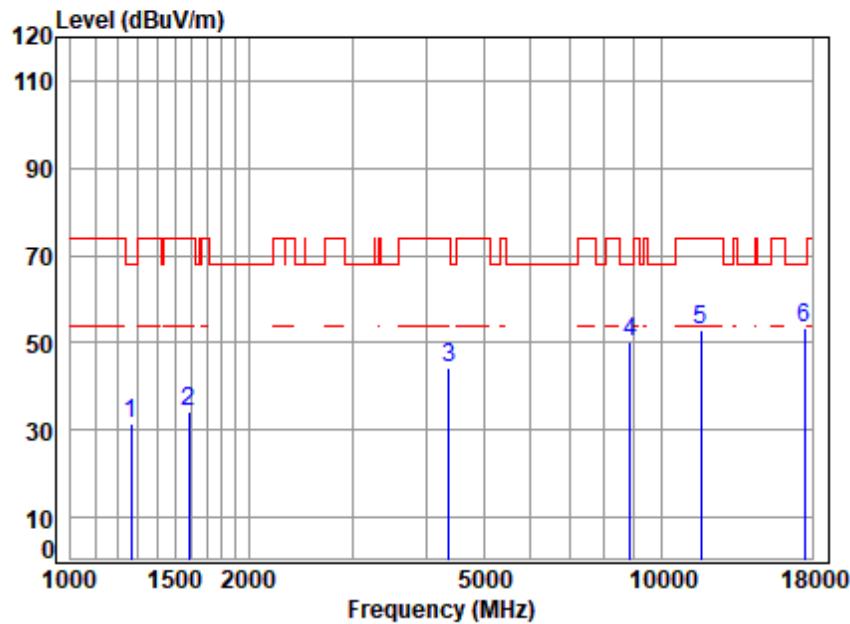
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.20	2.70	24.17	37.90	41.54	30.51	74.00	-43.49	peak
2	1658.34	3.44	26.72	36.50	40.69	34.35	68.20	-33.85	peak
3	4316.86	6.60	33.60	34.55	38.17	43.82	74.00	-30.18	peak
4	8789.52	9.95	36.70	35.62	39.43	50.46	68.20	-17.74	peak
5	11570.00	11.63	38.00	36.34	39.86	53.15	74.00	-20.85	peak
6 q	17355.00	14.19	43.46	37.45	32.94	53.14	68.20	-15.06	peak

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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5825 TX RSE
 Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1263.80	2.90	24.56	37.52	41.36	31.30	68.20 -36.90 peak
2	1587.98	3.35	26.36	36.66	41.00	34.05	74.00 -39.95 peak
3	4367.06	6.65	33.57	34.59	38.61	44.24	74.00 -29.76 peak
4	8866.06	10.01	36.70	35.58	39.22	50.35	68.20 -17.85 peak
5	11650.00	11.68	38.00	36.38	39.52	52.82	74.00 -21.18 peak
6	q 17475.00	14.20	43.58	37.44	33.21	53.55	68.20 -14.65 peak



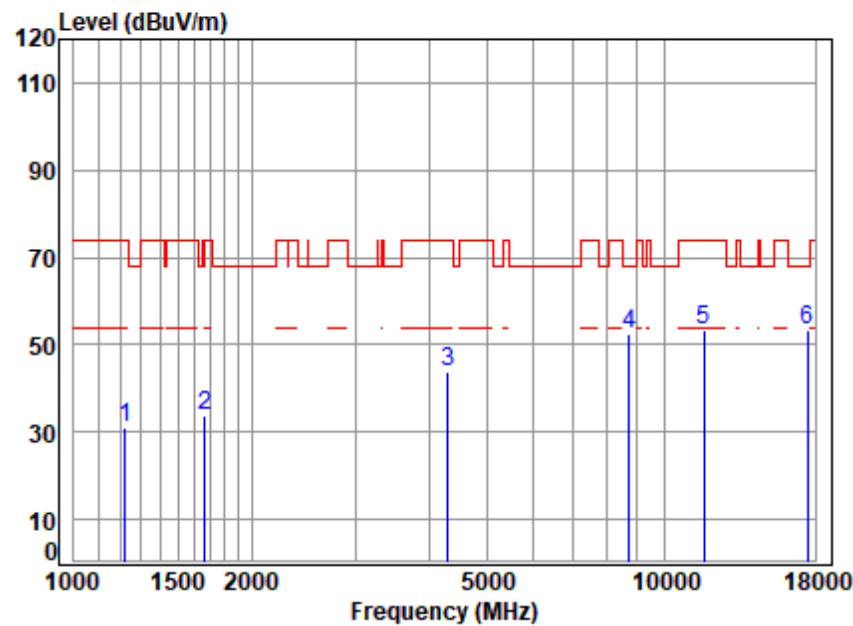
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500166306

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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

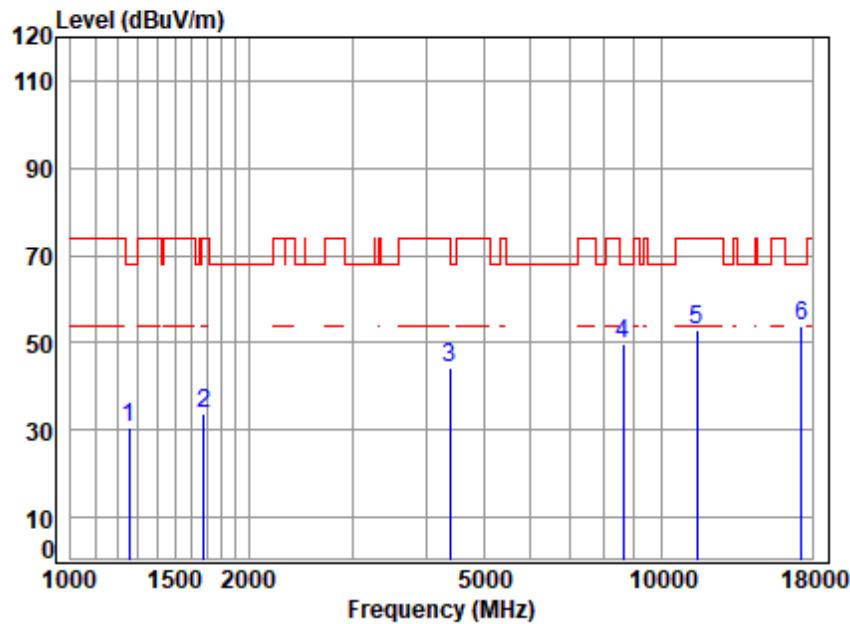
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.71	2.83	24.44	37.65	41.26	30.88	74.00	-43.12 peak
2	1667.95	3.45	26.74	36.47	39.85	33.57	74.00	-40.43 peak
3	4304.40	6.59	33.60	34.54	37.96	43.61	74.00	-30.39 peak
4	8713.63	9.88	36.70	35.66	41.71	52.63	68.20	-15.57 peak
5	11650.00	11.68	38.00	36.38	39.89	53.19	74.00	-20.81 peak
6 q	17475.00	14.20	43.58	37.44	32.84	53.18	68.20	-15.02 peak

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Shenzhen Branch Testing Center Laboratory

Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



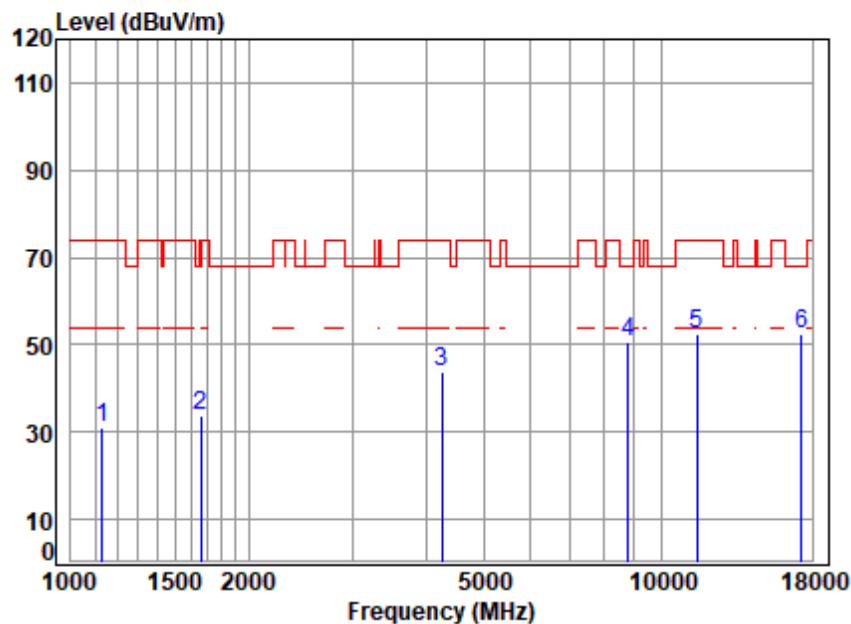
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5755 TX RSE
 Note : 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1256.51	2.89	24.53	37.54	40.91	30.79	68.20	-37.41 peak
2 1682.48	3.47	26.77	36.44	40.18	33.98	74.00	-40.02 peak
3 4379.70	6.66	33.54	34.59	38.55	44.16	74.00	-29.84 peak
4 8613.47	9.79	36.60	35.72	38.87	49.54	68.20	-18.66 peak
5 11510.00	11.59	38.00	36.30	39.74	53.03	74.00	-20.97 peak
6 q 17265.00	14.18	43.37	37.46	33.57	53.66	68.20	-14.54 peak

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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

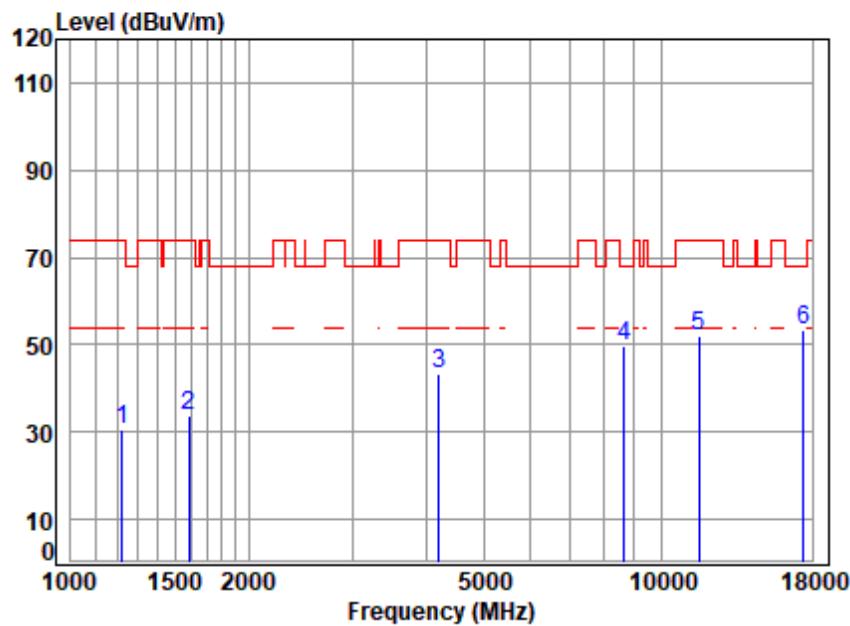
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.34	2.69	24.13	37.93	42.14	31.03	74.00	-42.97	peak
2	1663.14	3.45	26.73	36.48	39.84	33.54	74.00	-40.46	peak
3	4242.64	6.53	33.57	34.50	38.26	43.86	74.00	-30.14	peak
4	8789.52	9.95	36.70	35.62	39.42	50.45	68.20	-17.75	peak
5	11510.00	11.59	38.00	36.30	39.26	52.55	74.00	-21.45	peak
6 q	17265.00	14.18	43.37	37.46	32.58	52.67	68.20	-15.53	peak

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SGS-CSTS Standards Technical Services Co.,Ltd.
Shenzhen Branch Testing Center - C Laboratory

Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



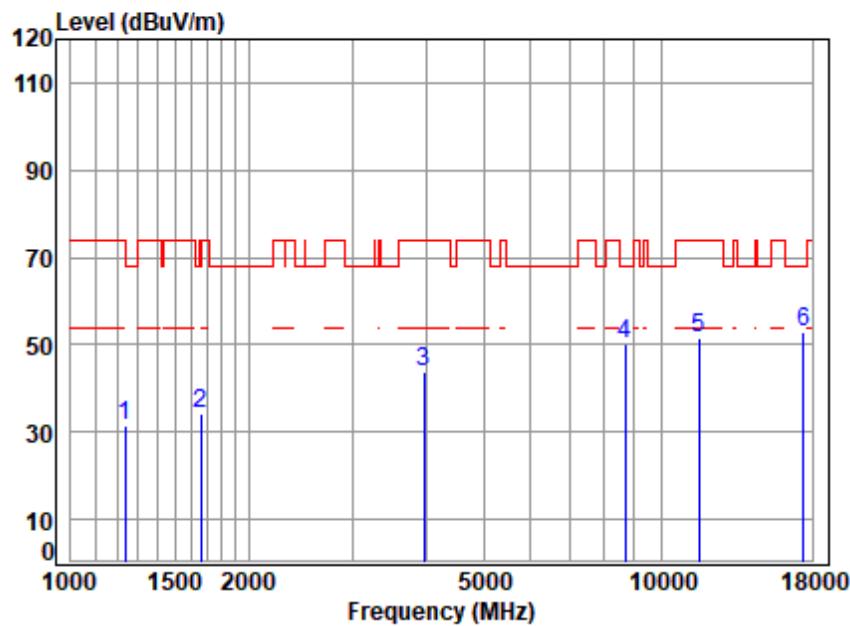
Site : chamber
Condition: 3m HORIZONTAL
Job No : 01663AT/01664AT
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	1224.25	2.84	24.45	37.64	40.95	30.60	74.00 -43.40 peak
2	1587.98	3.35	26.36	36.66	40.77	33.82	74.00 -40.18 peak
3	4206.01	6.49	33.42	34.48	38.01	43.44	74.00 -30.56 peak
4	8638.40	9.81	36.60	35.71	39.23	49.93	68.20 -18.27 peak
5	11590.00	11.64	38.00	36.35	38.90	52.19	74.00 -21.81 peak
6	q 17385.00	14.20	43.49	37.44	33.31	53.56	68.20 -14.64 peak

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Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

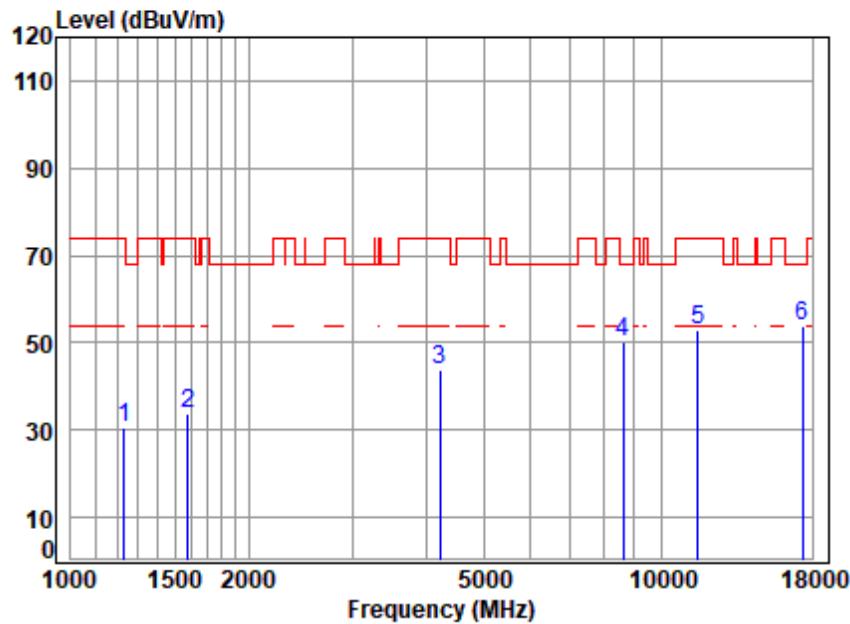


Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1234.91	2.86	24.47	37.61	41.56	31.28	74.00	-42.72 peak
2 1658.34	3.44	26.72	36.50	40.76	34.42	68.20	-33.78 peak
3 3969.77	6.24	32.64	34.36	39.12	43.64	74.00	-30.36 peak
4 8688.48	9.86	36.68	35.68	39.22	50.08	68.20	-18.12 peak
5 11590.00	11.64	38.00	36.35	38.40	51.69	74.00	-22.31 peak
6 q 17385.00	14.20	43.49	37.44	32.70	52.95	68.20	-15.25 peak



Test Mode: 21; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

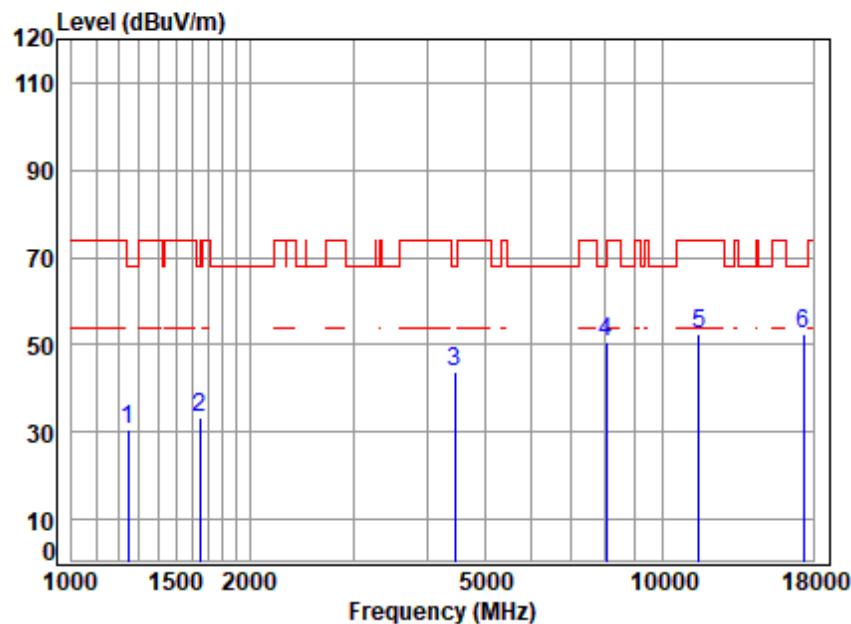


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 01663AT/01664AT
 Mode : 5775 TX RSE
 Note : 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1231.35	2.85	24.46	37.62	40.87	30.56	74.00 -43.44 peak
2	1578.82	3.34	26.25	36.68	41.08	33.99	74.00 -40.01 peak
3	4218.19	6.50	33.47	34.48	38.29	43.78	74.00 -30.22 peak
4	8613.47	9.79	36.60	35.72	39.39	50.06	68.20 -18.14 peak
5	11550.00	11.61	38.00	36.33	39.66	52.94	74.00 -21.06 peak
6	17325.00	14.19	43.43	37.45	33.51	53.68	68.20 -14.52 peak



Test Mode: 21; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 01663AT/01664AT
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.66	2.87	24.49	37.57	40.70	30.49	68.20	-37.71	peak
2	1648.78	3.43	26.70	36.52	39.68	33.29	68.20	-34.91	peak
3	4456.32	6.73	33.50	34.64	38.20	43.79	68.20	-24.41	peak
4	8036.21	9.25	36.20	36.07	41.19	50.57	74.00	-23.43	peak
5	11550.00	11.61	38.00	36.33	39.25	52.53	74.00	-21.47	peak
6 q	17325.00	14.19	43.43	37.45	32.50	52.67	68.20	-15.53	peak

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2305001663AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2305001663AT

- End of the Report -



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