

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 1 of 314

TEST REPORT

Application No.: SZCR2412004719AT
Applicant: Skyhigh Tech LLC
Address of Applicant: 1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United States
Manufacturer: Skyhigh Tech LLC
Address of Manufacturer: 1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United States
Equipment Under Test (EUT):
EUT Name: YKBP RC 2
Model No.: YKBP2
FCC ID: 2BLZI-YKBP22411
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-12-16
Date of Test: 2025-01-14 to 2025-03-14
Date of Issue: 2025-03-25

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

Kenx Xu

Kenx Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-25		Original

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



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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

Remark: KDB 789033 D02 is not accredited by A2LA



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Battery: 7.2V
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	Integral Antenna
Antenna Gain:	U-NII-1: Ant 0: 3.34dBi; Ant 1: 5.34 dBi; U-NII-3: Ant 0: 4.81dBi; Ant 1: 5.72dBi;
Remark:	Two antennas can simultaneous transmission
Antenna Number:	4
Cable Loss (for RF conducted test):	5.1G: 1.4dB 5.8G: 1.9dB

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



4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
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)	$\pm 3.1\text{dB}$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:

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

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

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4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 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	ESR	SZ-WRG-M-047	2025-01-8	2026-01-7
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14 2025-03-03	2025-03-13 2026-03-02

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-14 2025-03-04	2025-03-13 2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14 2025-03-04	2025-03-13 2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14 2025-03-04	2025-03-13 2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-14 2025-03-03	2025-03-13 2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25



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Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14 2025-03-04	2025-03-13 2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-7	2026-01-6
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-7	2026-01-6
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14 2025-03-04	2025-03-13 2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-14 2025-03-03	2025-03-13 2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19 2025-02-26	2025-03-18 2026-02-25

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-14 2025-03-03	2025-03-13 2026-03-02



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

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

U-NII-1: Ant 0: 3.34dBi; Ant 1: 5.34 dBi;

U-NII-3: Ant 0: 4.81dBi; Ant 1: 5.72dBi;

Antenna combination (MIMO mode)	Directional Gain (dBi)	
	U-NII-1	U-NII-3
ANT0 & ANT1	8.35	8.73

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.



7 Radio Spectrum Matter Test Results

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

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

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	12	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



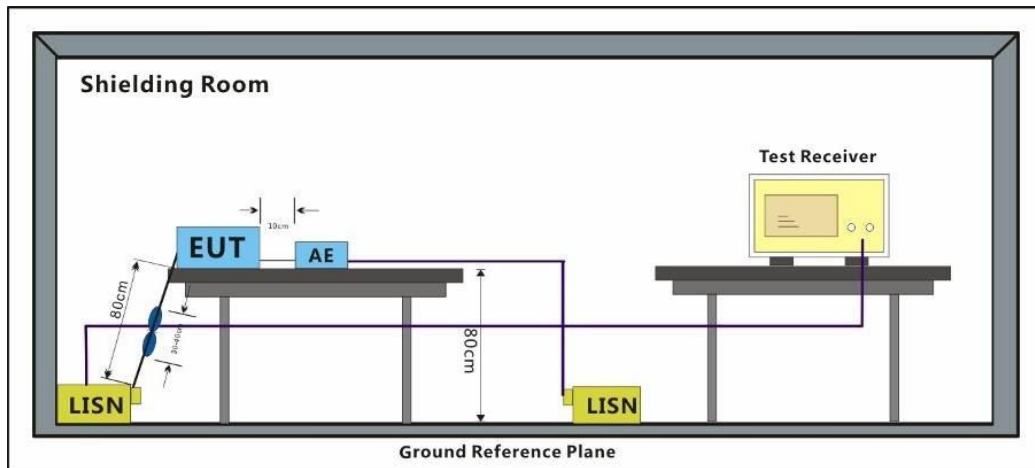
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



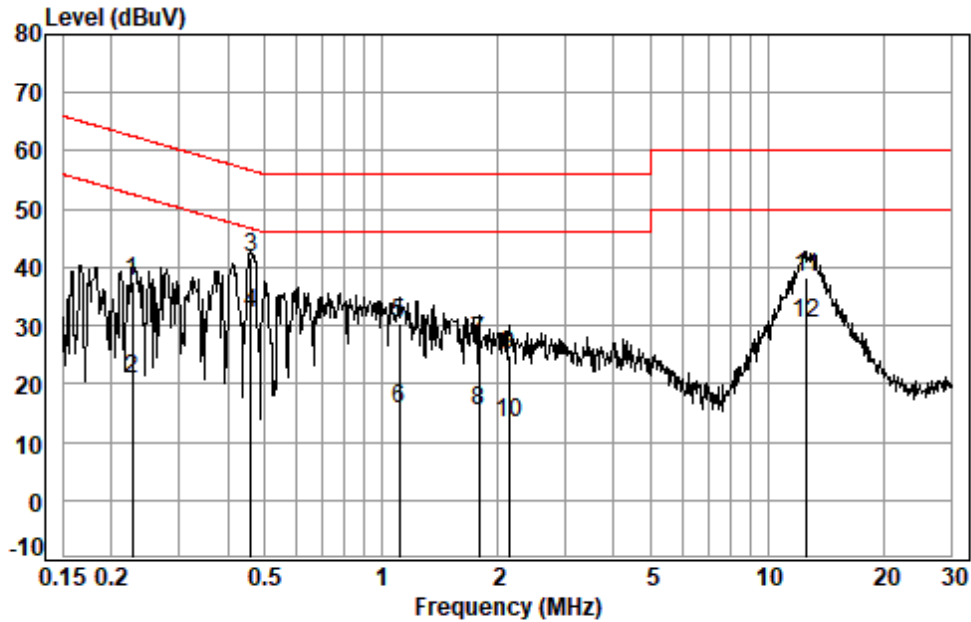
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Test Mode: 11; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 04719AT
Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2268	0.06	10.04	27.57	37.67	62.57	-24.90	QP
2	0.2268	0.06	10.04	10.59	20.69	52.57	-31.88	Average
3 *	0.4588	0.08	9.59	31.98	41.65	56.71	-15.06	QP
4 *	0.4588	0.08	9.59	22.48	32.15	46.71	-14.56	Average
5	1.1114	0.09	9.58	20.83	30.50	56.00	-25.50	QP
6	1.1114	0.09	9.58	6.07	15.74	46.00	-30.26	Average
7	1.7905	0.10	9.58	17.57	27.25	56.00	-28.75	QP
8	1.7905	0.10	9.58	5.71	15.39	46.00	-30.61	Average
9	2.1439	0.10	9.59	15.07	24.76	56.00	-31.24	QP
10	2.1439	0.10	9.59	3.59	13.28	46.00	-32.72	Average
11	12.6489	0.23	9.82	28.19	38.24	60.00	-21.76	QP
12	12.6489	0.23	9.82	20.23	30.28	50.00	-19.72	Average



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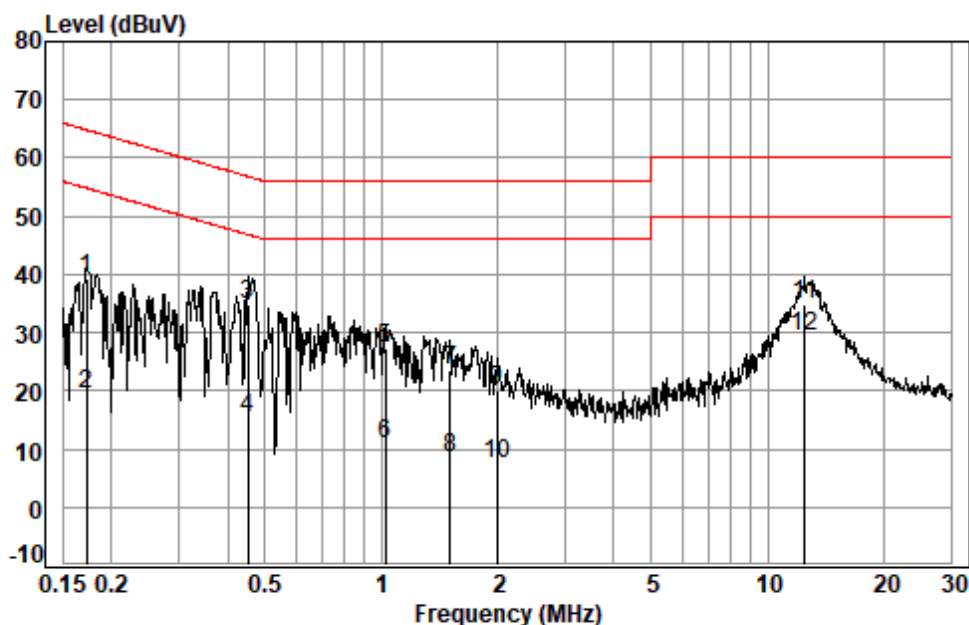
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Test Mode: 11; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 04719AT

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1722	0.06	10.12	28.99	39.17	64.86	-25.69	QP
2	0.1722	0.06	10.12	9.13	19.31	54.86	-35.55	Average
3 *	0.4515	0.08	9.72	25.09	34.89	56.85	-21.96	QP
4	0.4515	0.08	9.72	5.58	15.38	46.85	-31.47	Average
5	1.0265	0.09	9.54	17.60	27.23	56.00	-28.77	QP
6	1.0265	0.09	9.54	1.11	10.74	46.00	-35.26	Average
7	1.5113	0.10	9.55	13.91	23.56	56.00	-32.44	QP
8	1.5113	0.10	9.55	-1.03	8.62	46.00	-37.38	Average
9	1.9906	0.10	9.55	10.43	20.08	56.00	-35.92	QP
10	1.9906	0.10	9.55	-2.15	7.50	46.00	-38.50	Average
11	12.4495	0.23	9.73	24.81	34.77	60.00	-25.23	QP
12 *	12.4495	0.23	9.73	19.44	29.40	50.00	-20.60	Average



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7.2 Maximum Conducted output power

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

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

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 46.8 % RH

Atmospheric Pressure: 1020 mbar

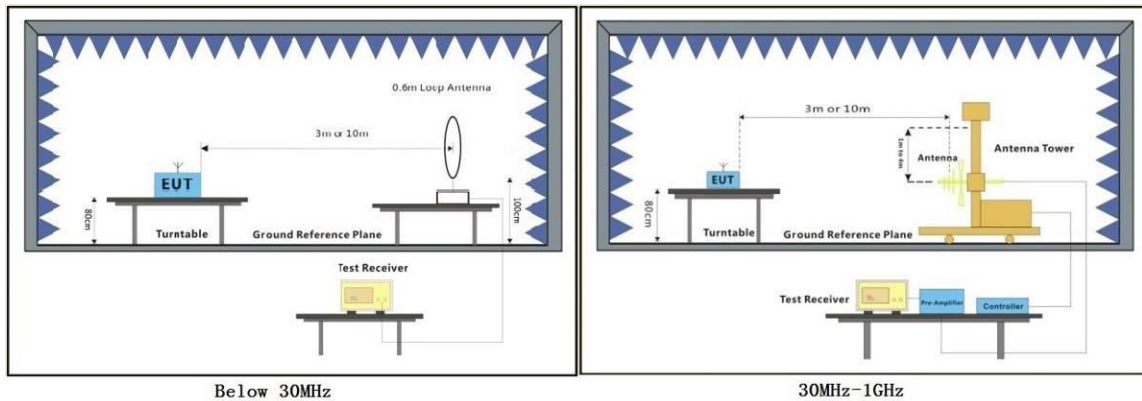
7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is



	the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
--	---

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

7.3 Radiated Emissions (Below 1GHz)

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

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

Measurement Distance: 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: 23.5 °C

Humidity: 46.8 % RH

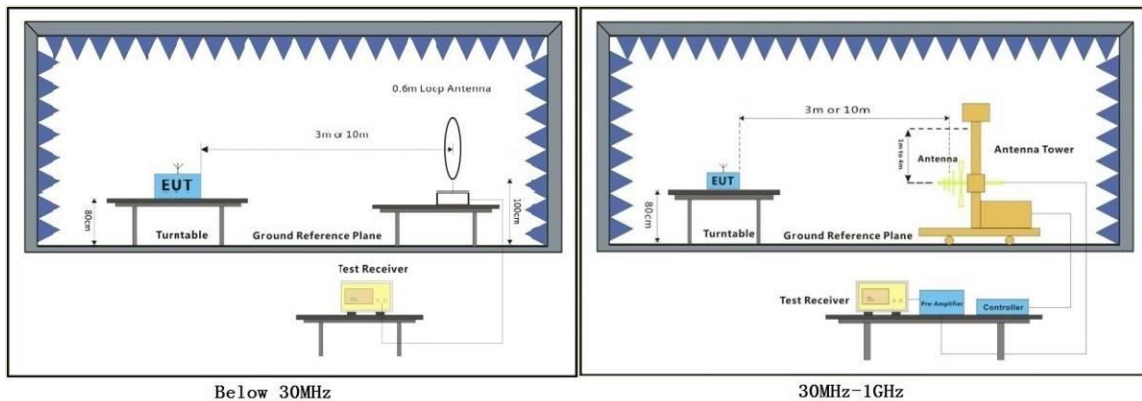
Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

		802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	11	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	12	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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

Remark:

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



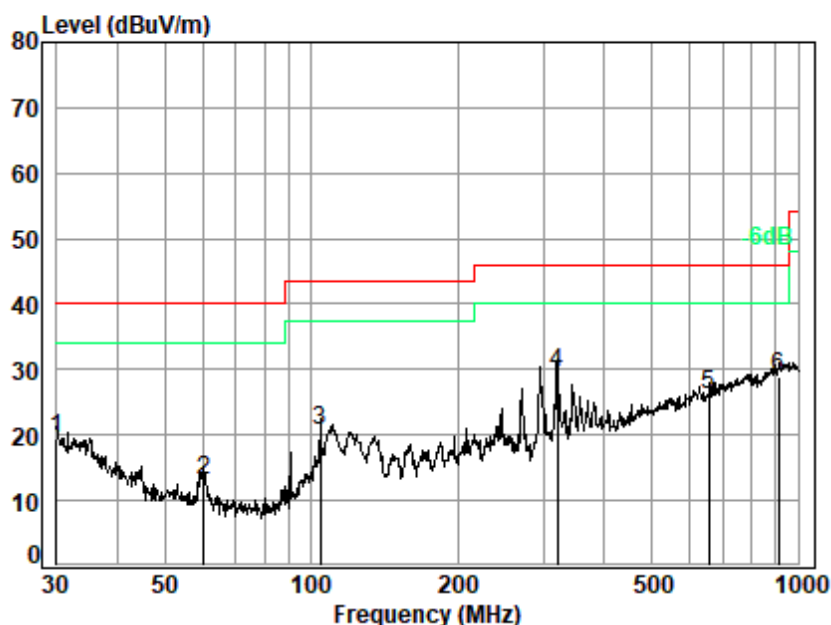
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Test Mode: 11; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04719AT
Test Mode: 11

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.000	21.20	0.67	27.79	25.28	19.36	40.00	-20.64 QP
2	60.069	11.47	0.95	27.71	28.46	13.17	40.00	-26.83 QP
3	104.170	12.22	1.25	27.57	34.73	20.63	43.50	-22.87 QP
4 q	319.937	18.51	2.28	26.83	35.56	29.52	46.00	-16.48 QP
5	656.530	25.07	3.42	27.83	25.46	26.12	46.00	-19.88 QP
6	912.862	28.01	4.16	26.67	23.47	28.97	46.00	-17.03 QP



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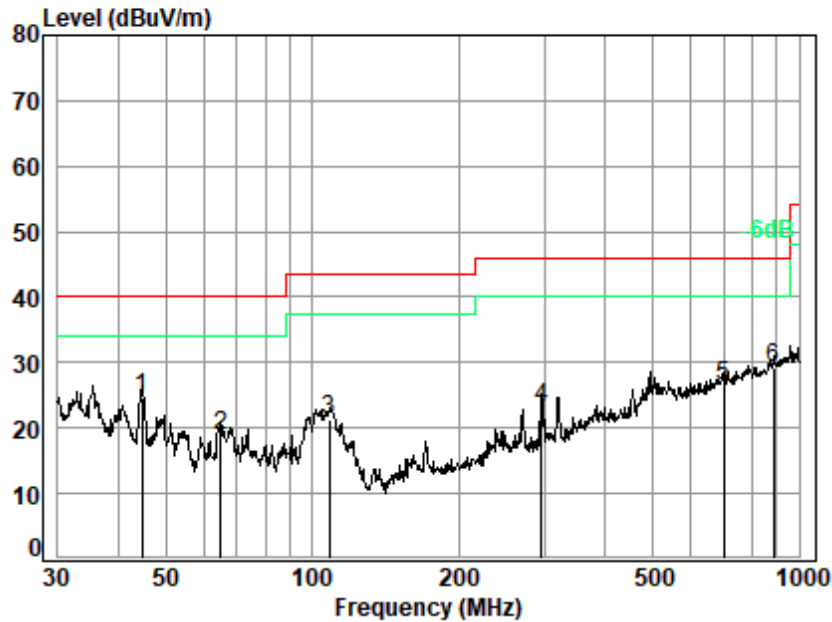
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 11; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04719AT
Test Mode: 11

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	44.743	14.30	0.82	27.75	37.23	24.60	40.00	-15.40 QP
2		64.887	11.04	0.99	27.69	34.52	18.86	40.00	-21.14 QP
3		108.267	12.06	1.28	27.56	35.47	21.25	43.50	-22.25 QP
4		295.147	17.45	2.18	26.77	30.27	23.13	46.00	-22.87 QP
5		699.305	25.93	3.54	27.73	24.85	26.59	46.00	-19.41 QP
6		887.610	27.96	4.09	26.85	23.95	29.15	46.00	-16.85 QP



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Shenzhen Branch

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7.4 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

Humidity: 61.0 % RH

Atmospheric Pressure: 1020 mbar

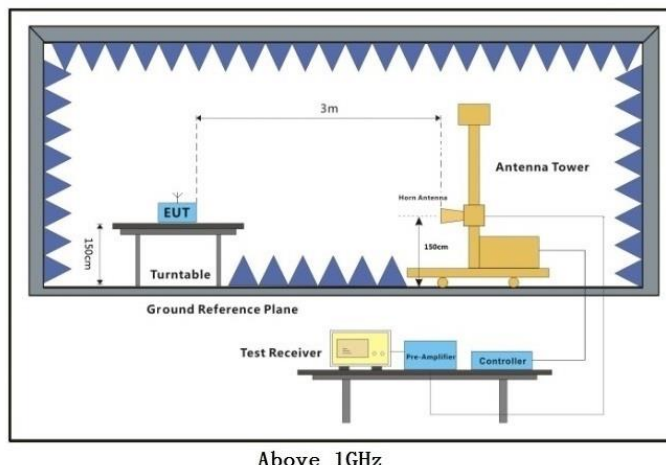


7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	11	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	12	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 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.



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3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



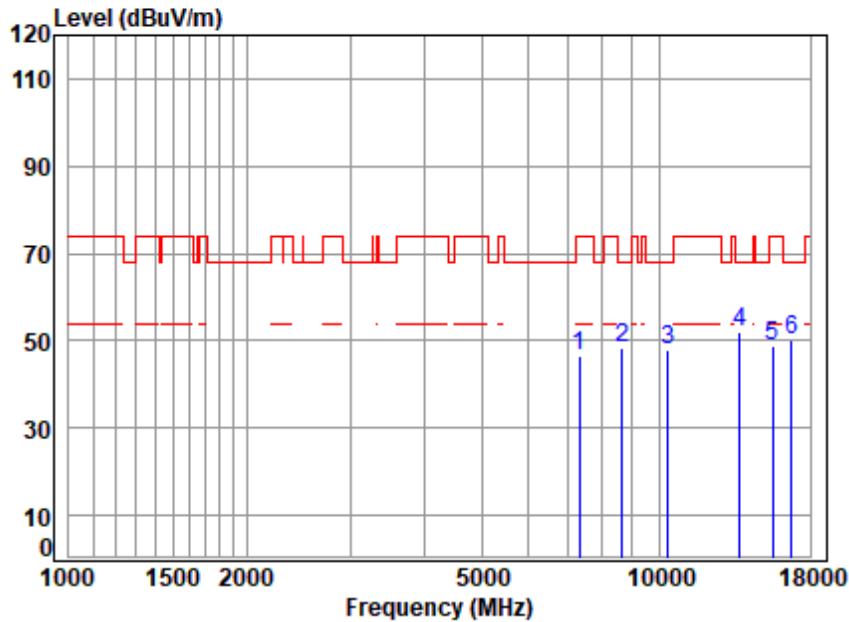
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

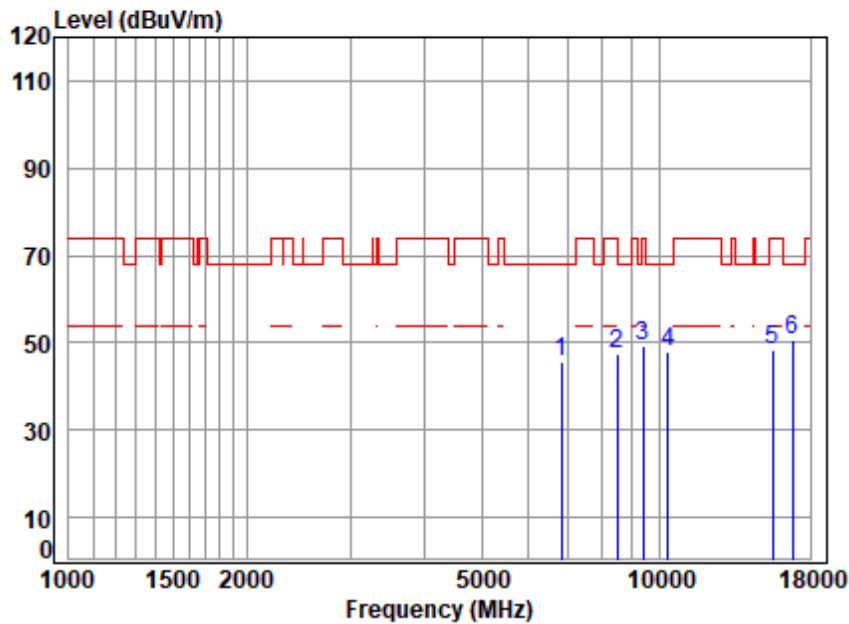
Mode : 5180 TX RSE

: 5G Wi-Fi 11a

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7326.267	11.51	36.75	56.44	54.85	46.67	74.00	-27.33	peak
2	8663.404	12.04	38.45	55.30	53.09	48.28	68.20	-19.92	peak
3	10360.000	13.60	39.00	53.88	49.26	47.98	68.20	-20.22	peak
4	13677.970	16.27	40.00	54.43	50.25	52.09	68.20	-16.11	Peak
5	15540.000	17.00	38.56	54.14	47.19	48.61	74.00	-25.39	peak
6	16745.210	17.53	39.49	54.22	47.43	50.23	68.20	-17.97	peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5180 TX RSE

: 5G Wi-Fi 11a

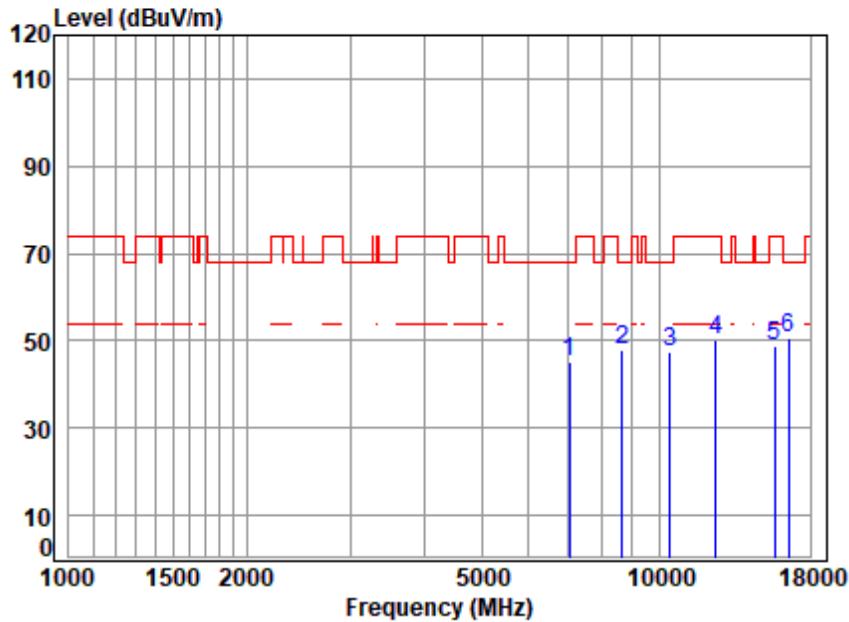
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6815.551	11.37	35.93	56.74	54.97	45.53	68.20	-22.67 peak
2	8489.882	12.24	38.32	55.46	52.17	47.27	74.00	-26.73 peak
3	9393.689	12.29	38.80	54.65	52.71	49.15	74.00	-24.85 peak
4	10360.000	13.60	39.00	53.88	49.26	47.98	68.20	-20.22 peak
5	15540.000	17.00	38.56	54.14	46.91	48.33	74.00	-25.67 peak
6	pp16842.290	17.76	39.60	54.25	47.53	50.64	68.20	-17.56 peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5220 TX RSE

: 5G Wi-Fi 11a

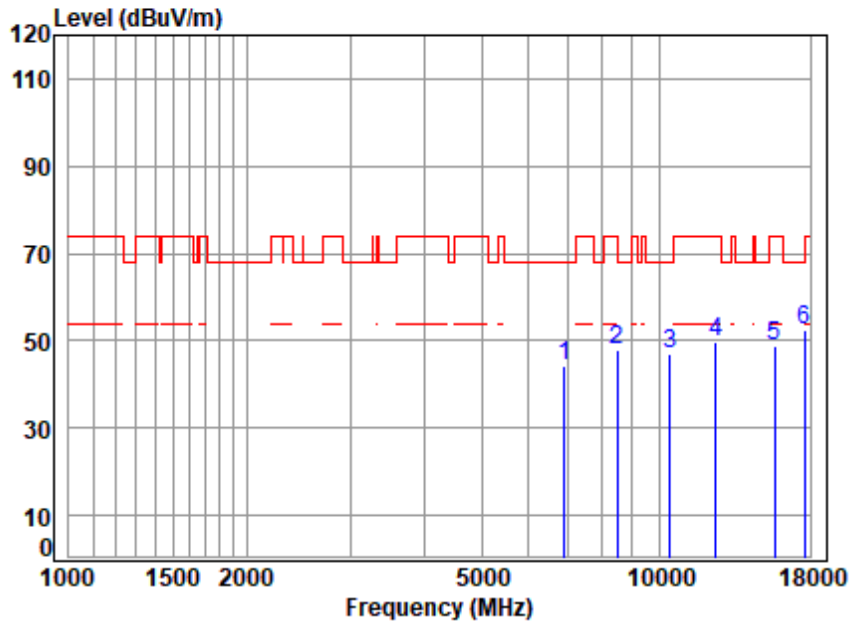
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7035.727	11.59	36.27	56.67	54.08	45.27	68.20 -22.93 peak
2	8663.404	12.04	38.45	55.30	52.77	47.96	68.20 -20.24 peak
3	10440.000	13.63	39.04	53.84	48.84	47.67	68.20 -20.53 peak
4	12469.610	15.43	39.90	54.13	48.77	49.97	74.00 -24.03 Peak
5	15660.000	17.23	38.56	54.10	46.92	48.61	74.00 -25.39 peak
6	pp16552.730	17.69	39.06	54.17	48.14	50.72	68.20 -17.48 peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5220 TX RSE

: 5G Wi-Fi 11a

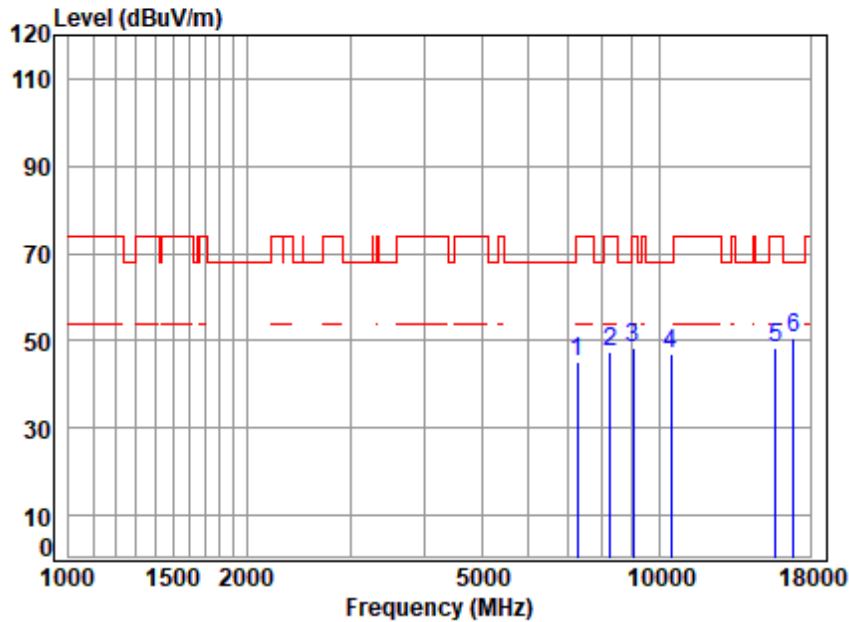
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	6894.806	11.37	36.18	56.72	53.38	44.21	68.20 -23.99 Peak
2	8489.882	12.24	38.32	55.46	53.02	48.12	74.00 -25.88 peak
3	10440.000	13.63	39.04	53.84	48.27	47.10	68.20 -21.10 peak
4	12469.610	15.43	39.90	54.13	48.58	49.78	74.00 -24.22 Peak
5	15660.000	17.23	38.56	54.10	46.95	48.64	74.00 -25.36 peak
6	pp17639.470	19.52	40.89	54.43	46.64	52.62	68.20 -15.58 Peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5240 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7263.015	11.51	36.63	56.49	53.55	45.20	74.00	-28.80 peak
2	8271.880	11.71	37.84	55.66	53.38	47.27	74.00	-26.73 peak
3	9047.272	12.14	38.60	54.96	52.48	48.26	74.00	-25.74 peak
4	10480.000	13.64	39.08	53.81	47.94	46.85	68.20	-21.35 peak
5	15720.000	17.22	38.58	54.08	46.58	48.30	74.00	-25.70 peak
6	pp16891.040	18.12	39.60	54.27	47.14	50.59	68.20	-17.61 peak



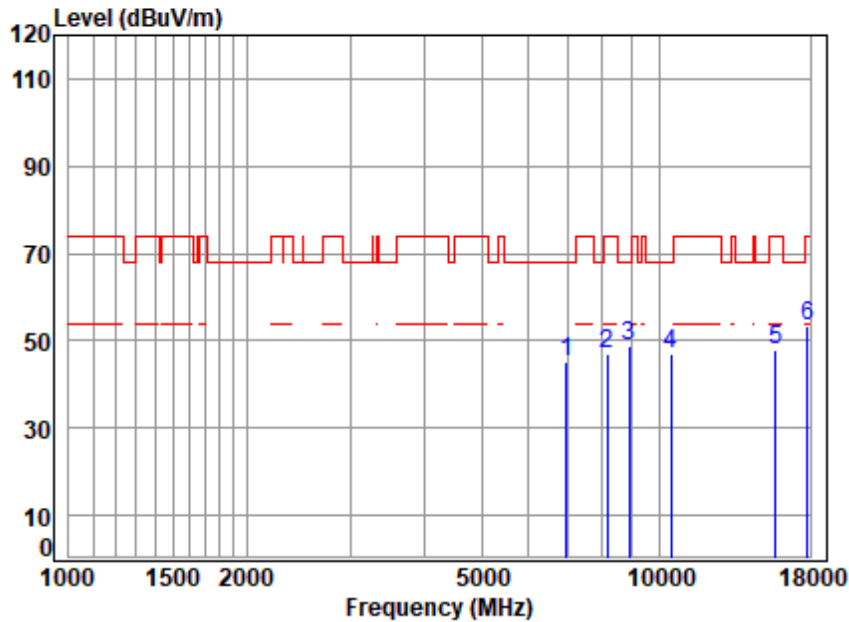
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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	6954.852	11.37	36.11	56.71	54.39	45.16	68.20 -23.04 peak
2	8176.795	11.54	37.95	55.74	53.10	46.85	74.00 -27.15 peak
3 pp	8891.725	12.22	38.58	55.10	52.90	48.60	68.20 -19.60 peak
4	10480.000	13.64	39.08	53.81	48.30	47.21	68.20 -20.99 peak
5	15720.000	17.22	38.58	54.08	46.10	47.82	74.00 -26.18 peak
6	17844.590	18.62	42.77	54.47	46.57	53.49	74.00 -20.51 Peak



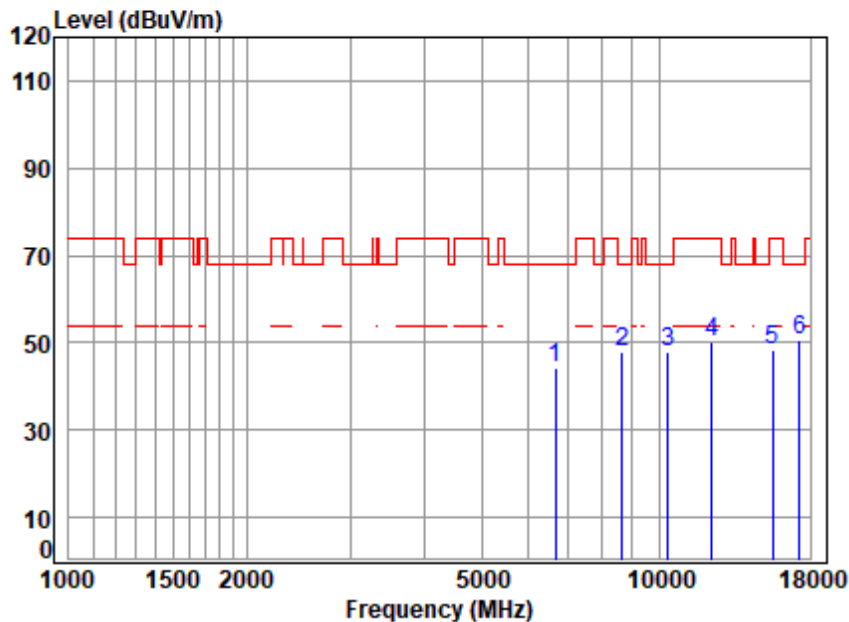
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Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5180 TX RSE

: 5G Wi-Fi 11ax20

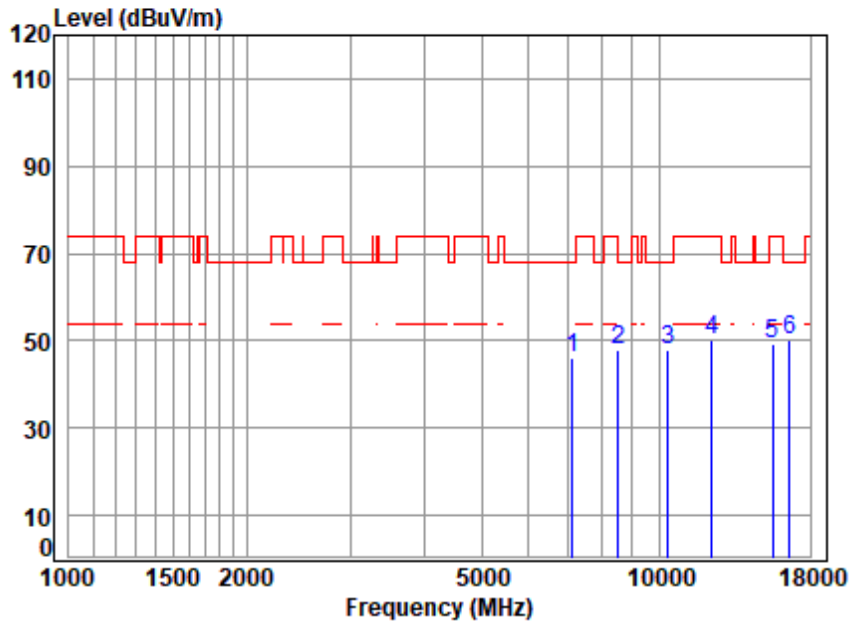
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6679.040	11.45	35.44	56.76	54.28	44.41	68.20	-23.79 Peak
2	8663.404	12.04	38.45	55.30	52.57	47.76	68.20	-20.44 peak
3	10360.000	13.60	39.00	53.88	49.22	47.94	68.20	-20.26 peak
4	12290.700	14.80	39.81	54.00	49.53	50.14	74.00	-23.86 Peak
5	15540.000	17.00	38.56	54.14	47.11	48.53	74.00	-25.47 peak
6	pp17286.170	17.84	40.16	54.36	47.22	50.86	68.20	-17.34 Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5180 TX RSE

: 5G Wi-Fi 11ax20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7138.144	11.81	36.48	56.59	54.19	45.89	68.20	-22.31 peak
2	8514.456	12.26	38.30	55.44	52.78	47.90	68.20	-20.30 peak
3	10360.000	13.60	39.00	53.88	49.28	48.00	68.20	-20.20 peak
4	12290.700	14.80	39.81	54.00	49.53	50.14	74.00	-23.86 Peak
5	15540.000	17.00	38.56	54.14	47.99	49.41	74.00	-24.59 peak
6	pp16600.640	17.65	39.20	54.18	47.67	50.34	68.20	-17.86 peak



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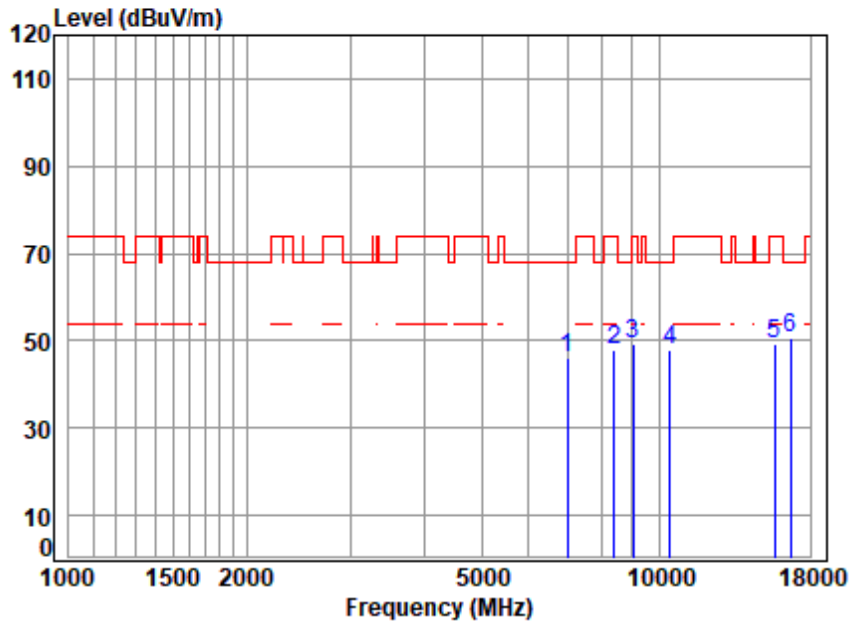
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5220 TX RSE

: 5G Wi-Fi 11ax20

	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	6995.172	11.37	36.19	56.70	55.00	45.86	68.20	-22.34 peak
2	8392.292	11.64	38.62	55.55	53.08	47.79	74.00	-26.21 peak
3	9021.160	12.14	38.60	54.98	53.57	49.33	74.00	-24.67 peak
4	10440.000	13.63	39.04	53.84	49.09	47.92	68.20	-20.28 peak
5	15660.000	17.23	38.56	54.10	47.59	49.28	74.00	-24.72 peak
6	pp16696.880	17.59	39.39	54.21	47.79	50.56	68.20	-17.64 peak



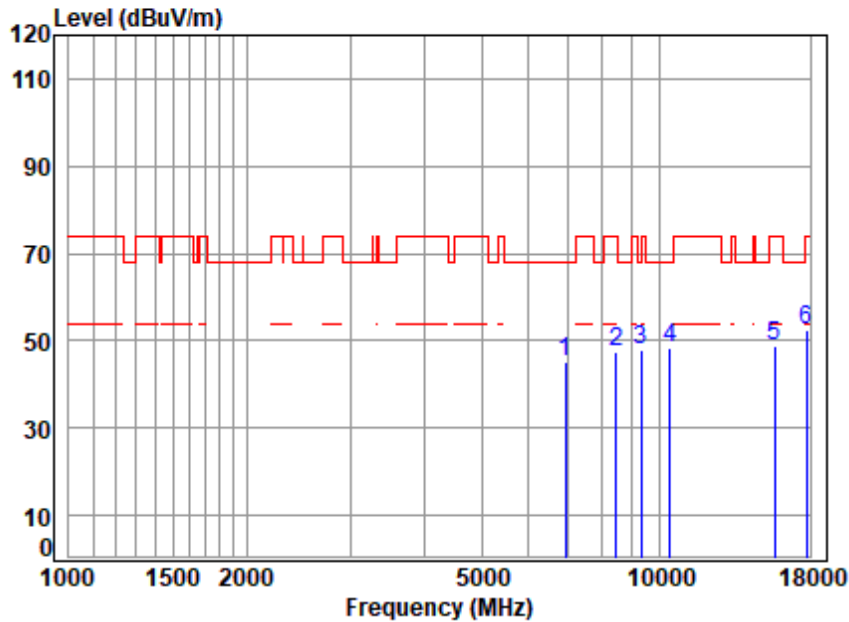
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5220 TX RSE

: 5G Wi-Fi 11ax20

	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	6934.778	11.37	36.13	56.71	54.33	45.12	68.20	-23.08 peak
2	8440.945	11.91	38.44	55.50	52.48	47.33	74.00	-26.67 peak
3	9312.588	12.19	38.80	54.72	51.66	47.93	74.00	-26.07 peak
4	pp10440.000	13.63	39.04	53.84	49.34	48.17	68.20	-20.03 peak
5	15660.000	17.23	38.56	54.10	47.00	48.69	74.00	-25.31 peak
6	17741.740	18.87	42.09	54.45	46.11	52.62	74.00	-21.38 Peak



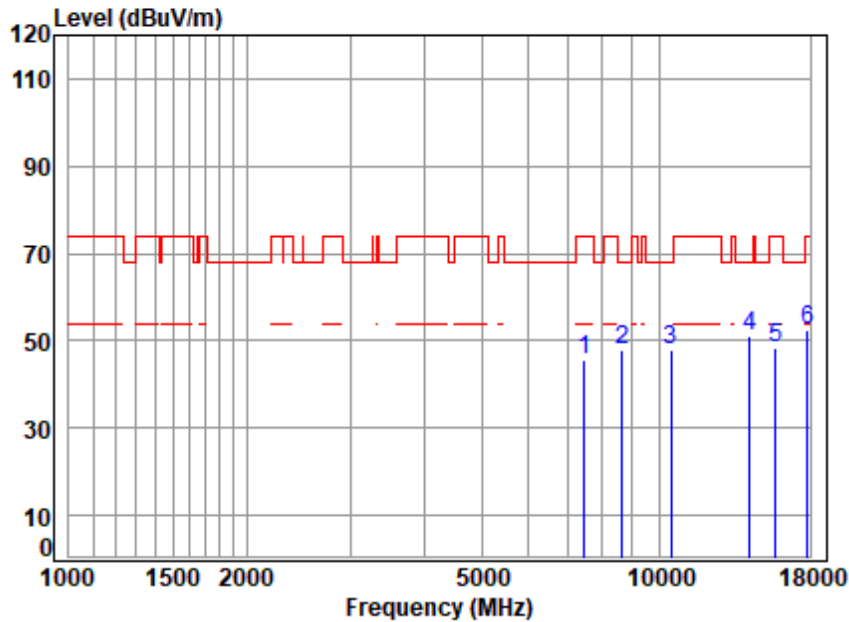
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5240 TX RSE

: 5G Wi-Fi 11ax20

	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	7454.429	11.35	36.80	56.34	53.89	45.70	74.00	-28.30 peak
2	8663.404	12.04	38.45	55.30	52.58	47.77	68.20	-20.43 peak
3	10480.000	13.64	39.08	53.81	49.20	48.11	68.20	-20.09 peak
4	pp14201.690	15.93	39.80	54.38	49.63	50.98	68.20	-17.22 Peak
5	15720.000	17.22	38.58	54.08	46.84	48.56	74.00	-25.44 peak
6	17793.090	18.61	42.45	54.46	45.71	52.31	74.00	-21.69 Peak



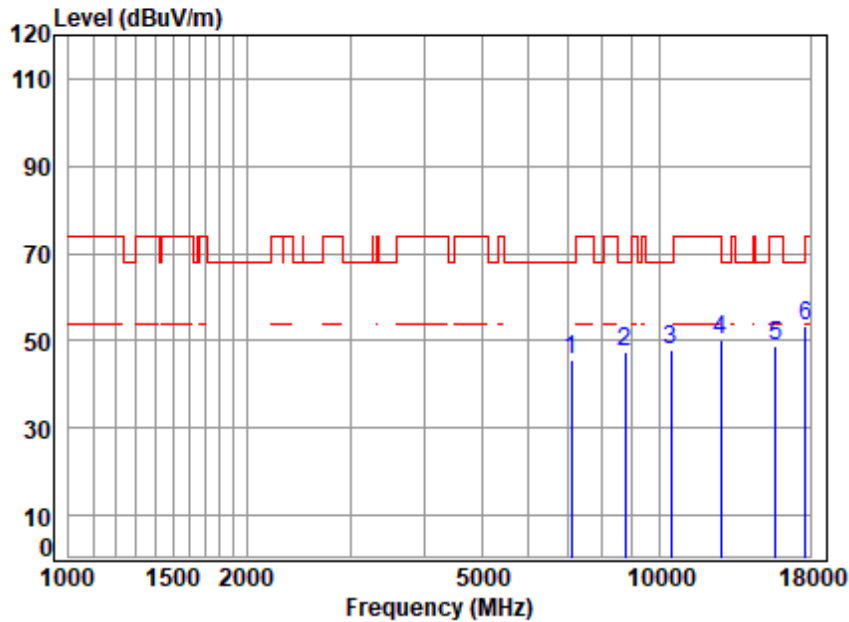
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 TX RSE

: 5G Wi-Fi 11ax20

	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	7096.999	11.97	36.39	56.62	54.06	45.80	68.20 -22.40 Peak
2	8738.852	12.15	38.52	55.24	52.17	47.60	68.20 -20.60 Peak
3	10480.000	13.64	39.08	53.81	48.82	47.73	68.20 -20.47 peak
4	12687.750	15.49	40.19	54.28	48.99	50.39	74.00 -23.61 Peak
5	15720.000	17.22	38.58	54.08	47.32	49.04	74.00 -24.96 peak
6	pp17690.530	19.16	41.66	54.44	46.92	53.30	68.20 -14.90 Peak



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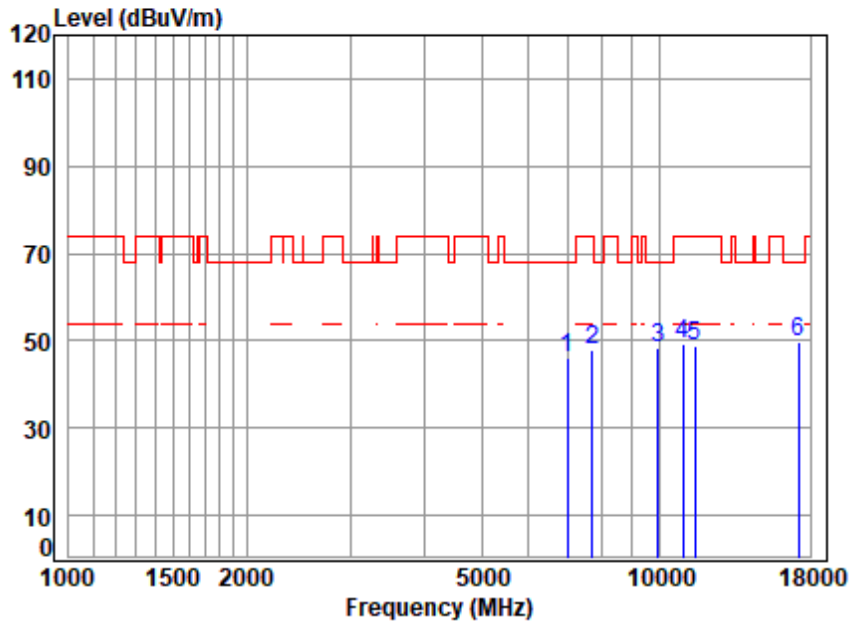
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Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5745 TX RSE

: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6974.982	11.37	36.15	56.71	55.46	46.27	68.20	-21.93 peak
2	7695.244	11.43	36.90	56.14	55.65	47.84	74.00	-26.16 peak
3	9952.717	12.91	38.90	54.14	50.86	48.53	68.20	-19.67 peak
4	10980.470	14.13	39.38	53.51	49.46	49.46	74.00	-24.54 peak
5	11490.000	14.97	39.61	53.65	47.76	48.69	74.00	-25.31 peak
6	pp17235.000	17.83	40.01	54.35	46.03	49.52	68.20	-18.68 peak



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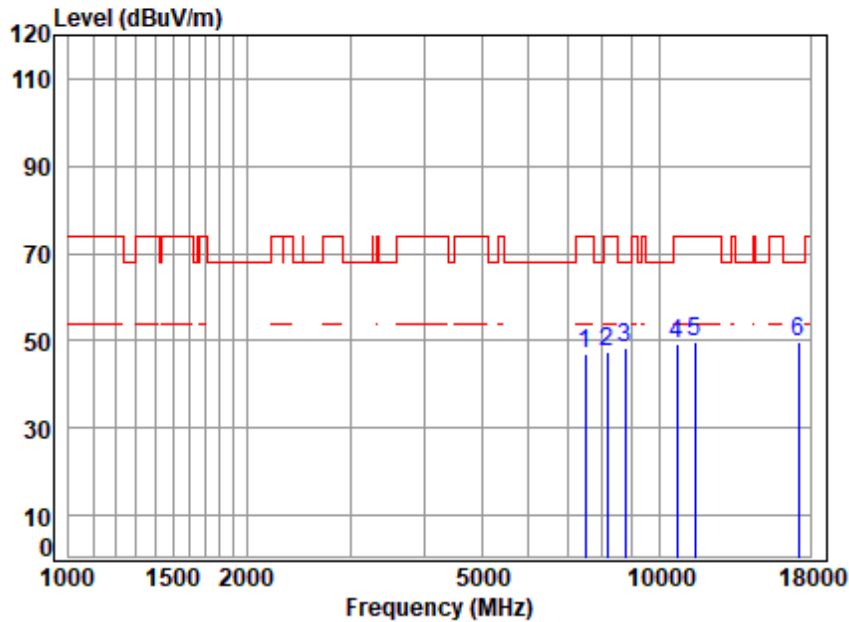
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5745 TX RSE

: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7497.646	11.24	36.80	56.30	55.05	46.79	74.00	-27.21 peak
2	8153.195	11.51	37.91	55.76	53.95	47.61	74.00	-26.39 peak
3	8738.852	12.15	38.52	55.24	52.75	48.18	68.20	-20.02 peak
4	10698.510	14.03	39.40	53.68	49.58	49.33	74.00	-24.67 peak
5	11490.000	14.97	39.61	53.65	48.87	49.80	74.00	-24.20 peak
6	pp17235.000	17.83	40.01	54.35	46.31	49.80	68.20	-18.40 peak



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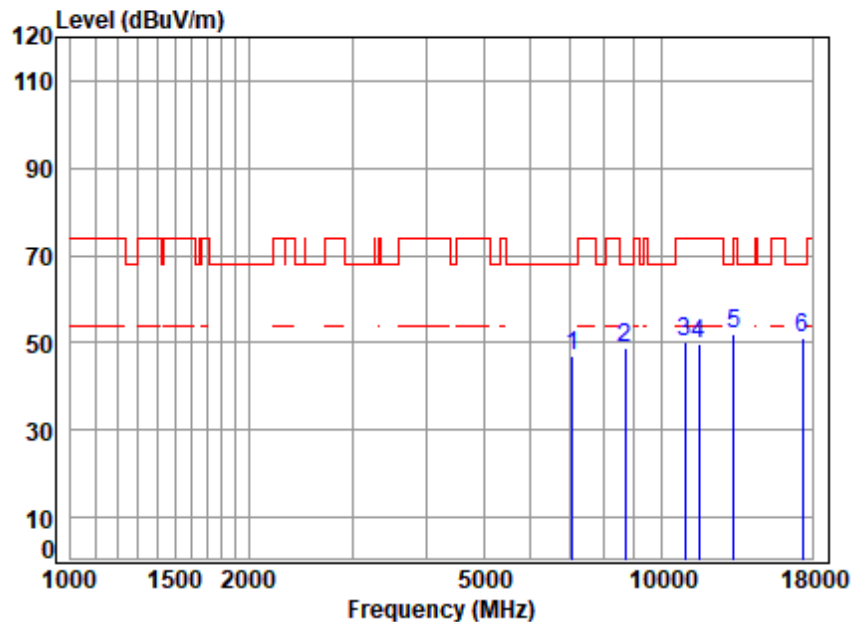
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5785 TX RSE

: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7076.516	11.84	36.35	56.64	55.27	46.82	68.20	-21.38 peak
2	8688.480	12.08	38.55	55.28	53.59	48.94	68.20	-19.26 peak
3	10948.780	14.06	39.35	53.53	50.40	50.28	74.00	-23.72 peak
4	11570.000	14.78	39.60	53.67	49.19	49.90	74.00	-24.10 peak
5	13288.280	16.44	40.29	54.47	49.57	51.83	74.00	-22.17 Peak
6	pp17355.000	18.00	40.31	54.37	47.13	51.07	68.20	-17.13 peak



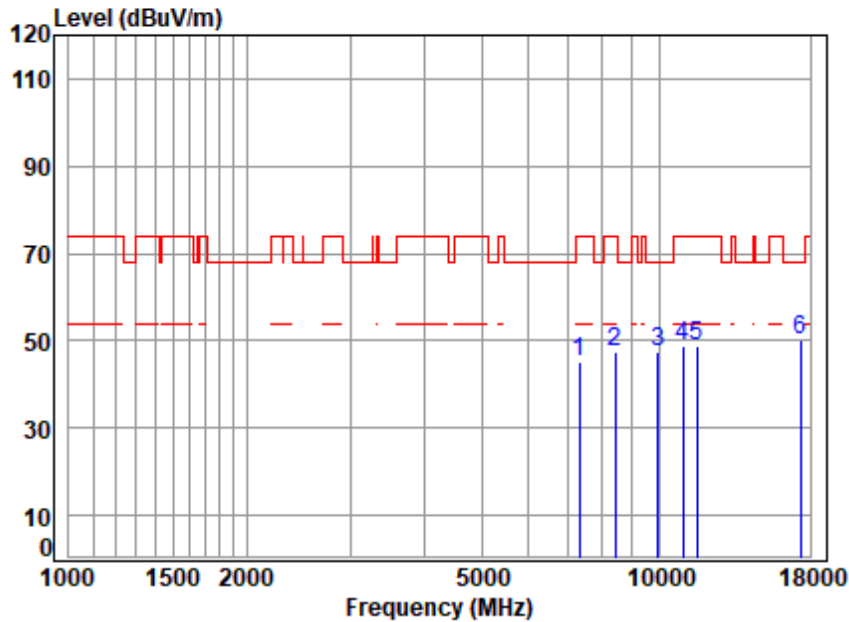
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5785 TX RSE

: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7326.267	11.51	36.75	56.44	53.31	45.13	74.00	-28.87 peak
2	8416.584	11.74	38.53	55.53	52.79	47.53	74.00	-26.47 peak
3	9952.717	12.91	38.90	54.14	49.93	47.60	68.20	-20.60 peak
4	10980.470	14.13	39.38	53.51	49.00	49.00	74.00	-25.00 peak
5	11570.000	14.78	39.60	53.67	47.95	48.66	74.00	-25.34 peak
6	pp17355.000	18.00	40.31	54.37	46.41	50.35	68.20	-17.85 peak



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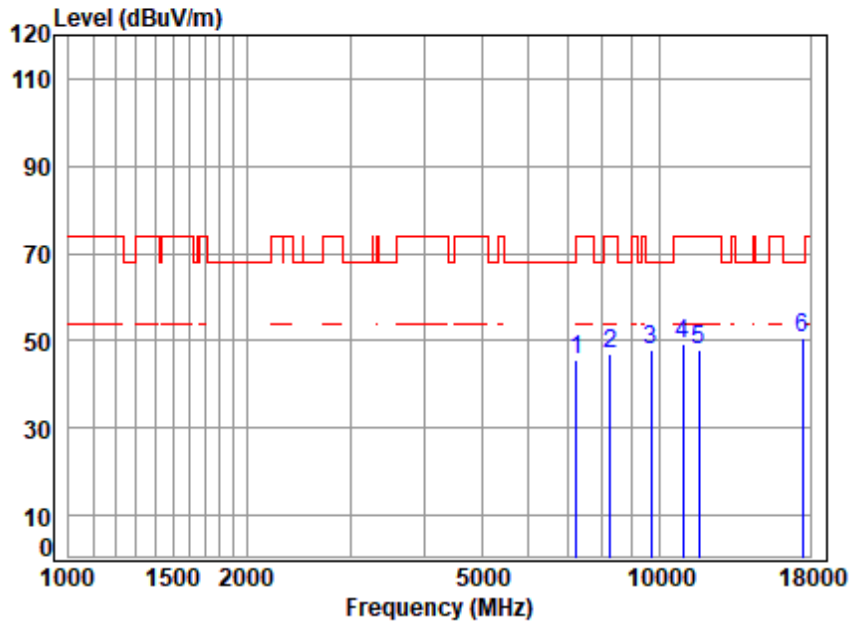
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5825 TX RSE

: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7242.052	11.52	36.60	56.51	53.83	45.44	68.20	-22.76 peak
2	8248.005	11.66	37.81	55.68	53.28	47.07	74.00	-26.93 peak
3	9697.151	12.69	38.70	54.37	51.00	48.02	68.20	-20.18 peak
4	10980.470	14.13	39.38	53.51	49.07	49.07	74.00	-24.93 peak
5	11650.000	14.69	39.55	53.69	47.38	47.93	74.00	-26.07 peak
6	pp17475.000	18.35	40.78	54.40	46.08	50.81	68.20	-17.39 peak



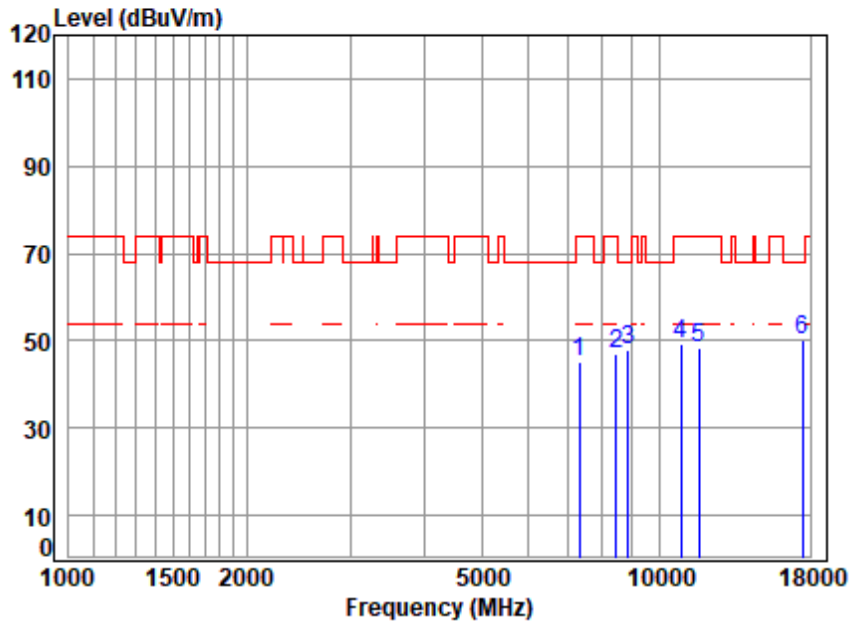
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5825 TX RSE

: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7326.267	11.51	36.75	56.44	53.41	45.23	74.00	-28.77 peak
2	8465.379	12.07	38.37	55.48	51.82	46.78	74.00	-27.22 peak
3	8866.062	12.23	38.53	55.12	52.10	47.74	68.20	-20.46 peak
4	10885.670	13.92	39.30	53.57	49.53	49.18	74.00	-24.82 peak
5	11650.000	14.69	39.55	53.69	47.78	48.33	74.00	-25.67 peak
6	pp17475.000	18.35	40.78	54.40	45.67	50.40	68.20	-17.80 peak



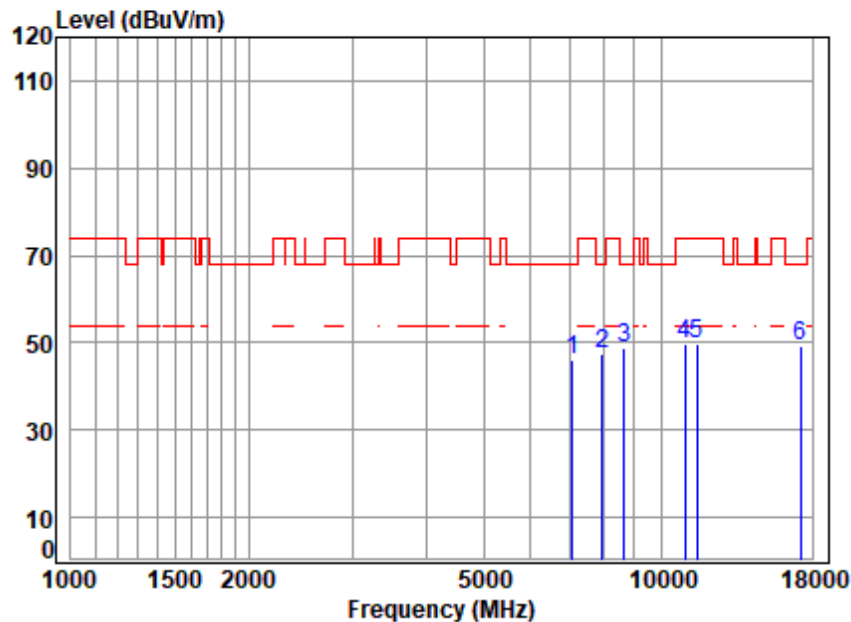
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Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5745 TX RSE

: 5.8G Wi-Fi 11ax20

	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	7076.516	11.84	36.35	56.64	54.60	46.15	68.20	-22.05 peak
2	7943.838	11.55	37.69	55.94	54.31	47.61	68.20	-20.59 peak
3	8663.404	12.04	38.45	55.30	53.59	48.78	68.20	-19.42 peak
4	10948.780	14.06	39.35	53.53	49.91	49.79	74.00	-24.21 peak
5	11490.000	14.97	39.61	53.65	48.63	49.56	74.00	-24.44 peak
6	pp17235.000	17.83	40.01	54.35	45.95	49.44	68.20	-18.76 peak



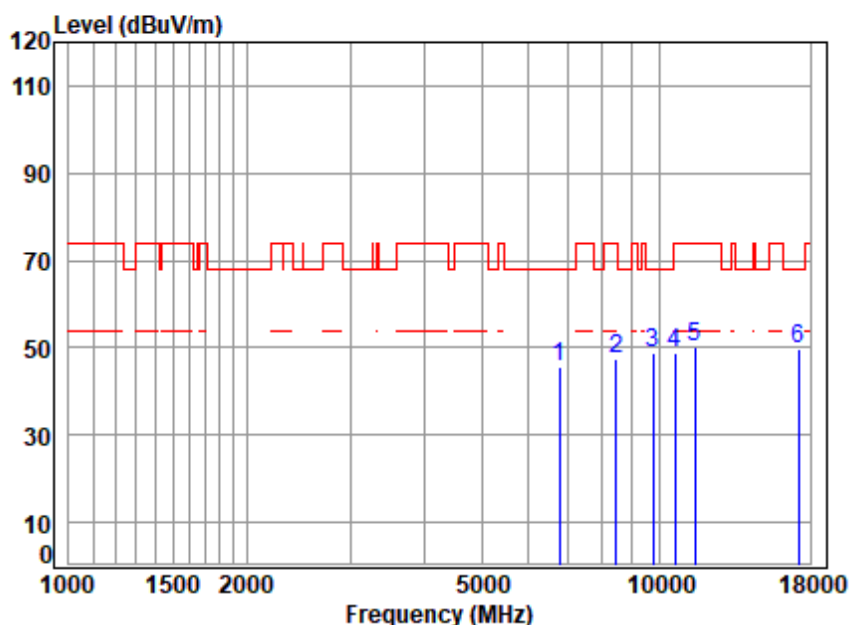
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5745 TX RSE

: 5.8G Wi-Fi 11ax20

	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	6776.265	11.38	35.81	56.74	55.06	45.51	68.20	-22.69 peak
2	8440.945	11.91	38.44	55.50	52.78	47.63	74.00	-26.37 peak
3	9753.371	12.91	38.60	54.32	51.59	48.78	68.20	-19.42 peak
4	10636.850	13.76	39.34	53.72	49.66	49.04	74.00	-24.96 peak
5	11490.000	14.97	39.61	53.65	49.29	50.22	74.00	-23.78 peak
6	pp17235.000	17.83	40.01	54.35	46.39	49.88	68.20	-18.32 peak



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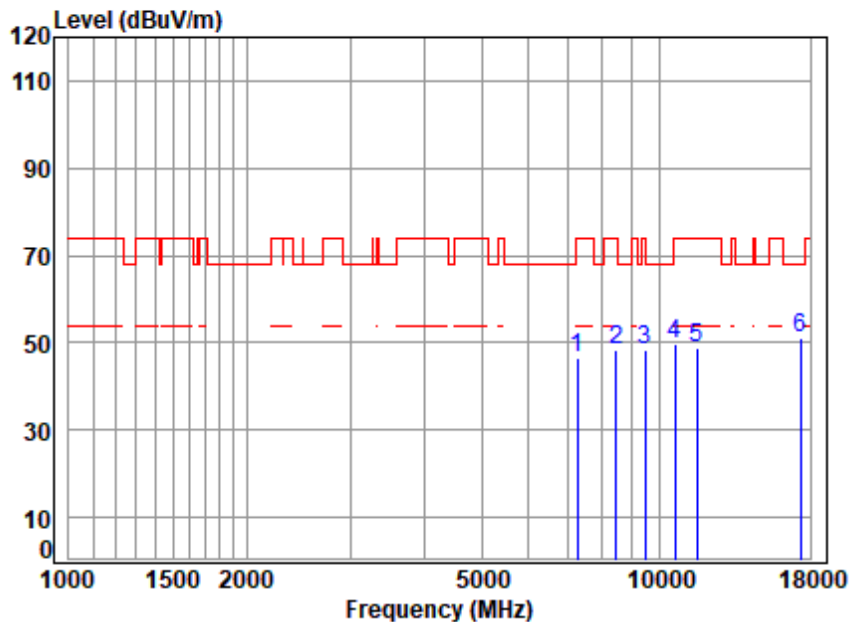
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5785 TX RSE

: 5.8G Wi-Fi 11ax20

	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	7263.015	11.51	36.63	56.49	54.73	46.38	74.00	-27.62 peak
2	8440.945	11.91	38.44	55.50	53.42	48.27	74.00	-25.73 peak
3	9448.149	12.43	38.80	54.60	51.66	48.29	74.00	-25.71 peak
4	10636.850	13.76	39.34	53.72	50.17	49.55	74.00	-24.45 peak
5	11570.000	14.78	39.60	53.67	47.97	48.68	74.00	-25.32 peak
6	pp17355.000	18.00	40.31	54.37	47.20	51.14	68.20	-17.06 peak



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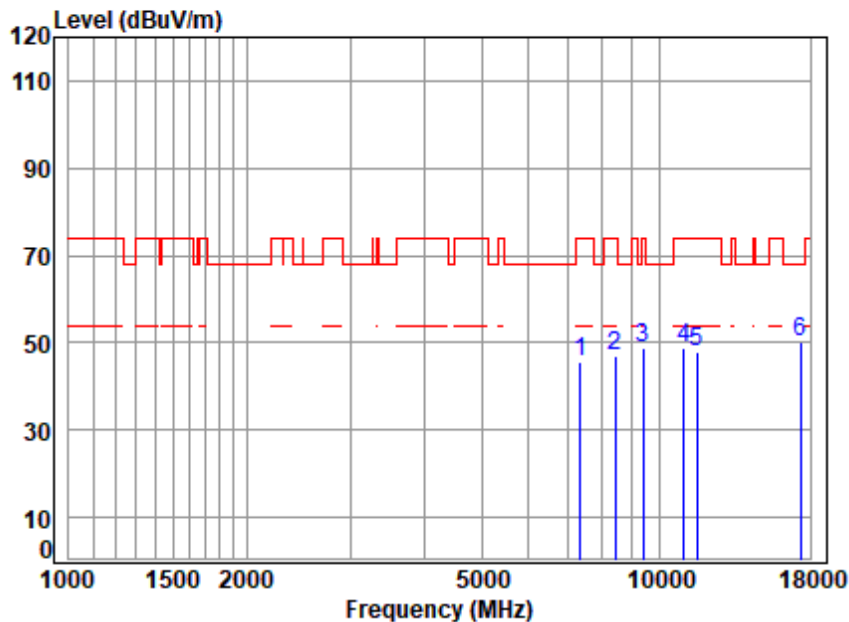
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5785 TX RSE

: 5.8G Wi-Fi 11ax20

	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	7347.474	11.51	36.79	56.42	53.56	45.44	74.00	-28.56 peak
2	8416.584	11.74	38.53	55.53	52.36	47.10	74.00	-26.90 peak
3	9393.689	12.29	38.80	54.65	52.26	48.70	74.00	-25.30 peak
4	11012.250	14.23	39.41	53.50	48.77	48.91	74.00	-25.09 peak
5	11570.000	14.78	39.60	53.67	47.16	47.87	74.00	-26.13 peak
6	pp17355.000	18.00	40.31	54.37	46.45	50.39	68.20	-17.81 peak



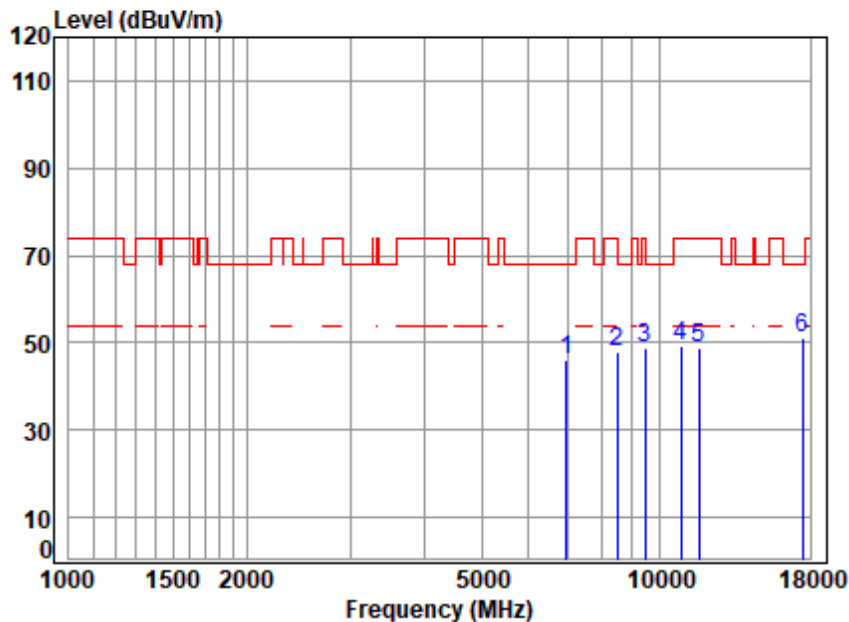
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5825 TX RSE

: 5.8G Wi-Fi 11ax20

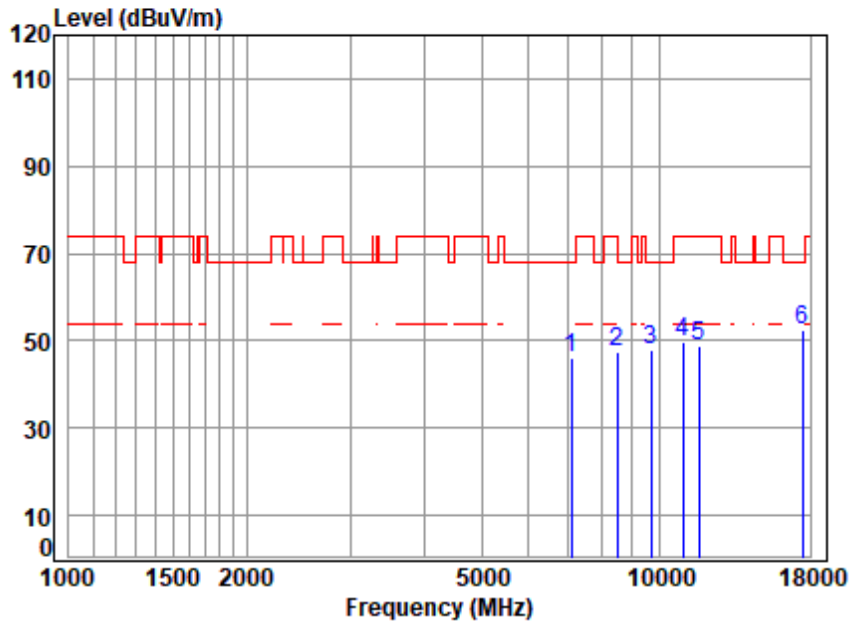
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6954.852	11.37	36.11	56.71	55.36	46.13	68.20	-22.07 peak
2	8489.882	12.24	38.32	55.46	52.70	47.80	74.00	-26.20 peak
3	9475.497	12.50	38.85	54.57	52.03	48.81	74.00	-25.19 peak
4	10885.670	13.92	39.30	53.57	49.73	49.38	74.00	-24.62 peak
5	11650.000	14.69	39.55	53.69	48.09	48.64	74.00	-25.36 peak
6	pp17475.000	18.35	40.78	54.40	46.27	51.00	68.20	-17.20 peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

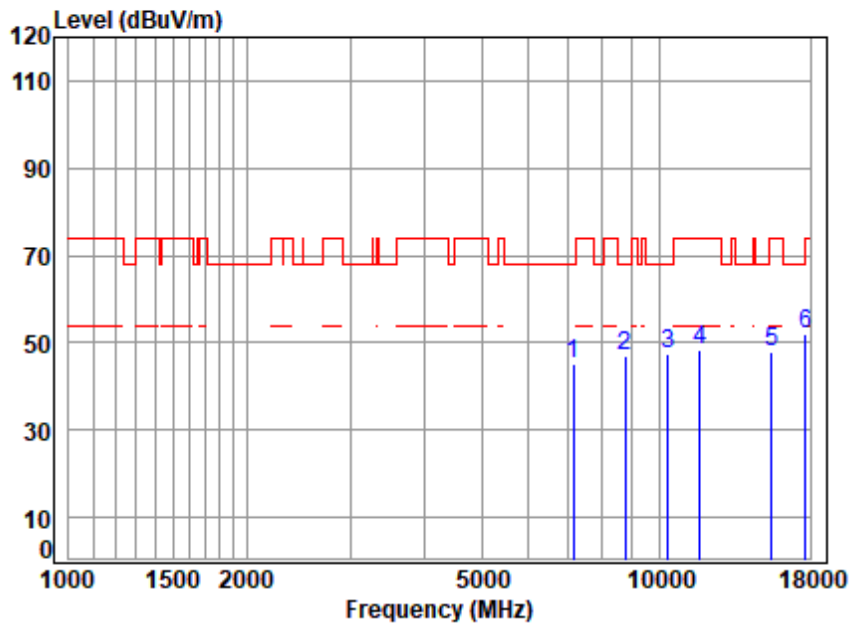
Mode : 5825 TX RSE

: 5.8G Wi-Fi 11ax20

	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	7096.999	11.97	36.39	56.62	54.39	46.13	68.20	-22.07 peak
2	8489.882	12.24	38.32	55.46	52.56	47.66	74.00	-26.34 peak
3	9669.164	12.62	38.70	54.40	51.06	47.98	68.20	-20.22 peak
4	10948.780	14.06	39.35	53.53	49.91	49.79	74.00	-24.21 peak
5	11650.000	14.69	39.55	53.69	48.34	48.89	74.00	-25.11 peak
6	pp17475.000	18.35	40.78	54.40	47.62	52.35	68.20	-15.85 peak



Test Mode: 37; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5170 TX RSE

: 5G SDR 40M

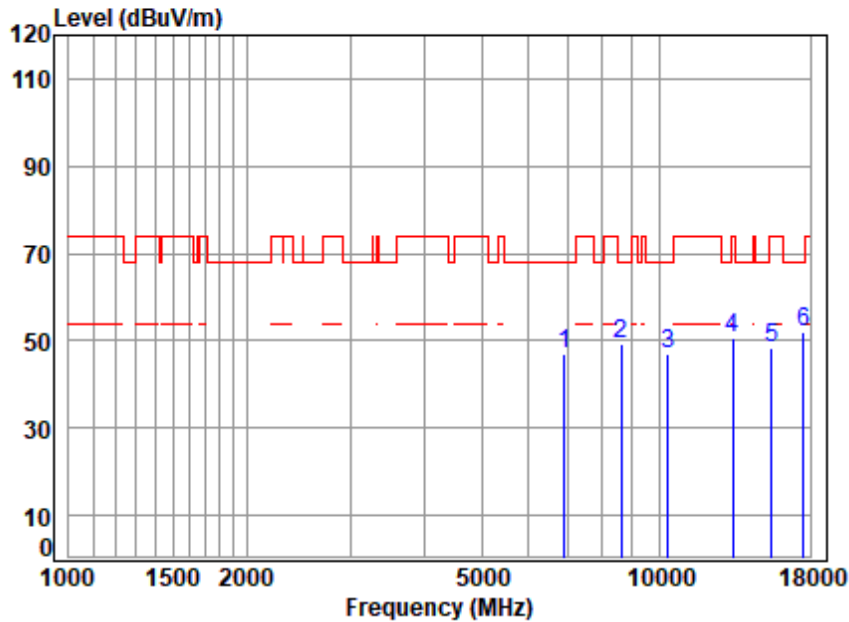
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7158.806	11.71	36.52	56.57	53.35	45.01	68.20 -23.19 Peak
2	8764.146	12.19	38.50	55.21	51.57	47.05	68.20 -21.15 peak
3	10340.000	13.60	39.00	53.90	48.53	47.23	68.20 -20.97 peak
4	11701.380	14.73	39.50	53.71	48.07	48.59	74.00 -25.41 Peak
5	15510.000	16.92	38.59	54.15	46.49	47.85	74.00 -26.15 peak
6	pp17690.530	19.16	41.66	54.44	45.78	52.16	68.20 -16.04 Peak



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Test Mode: 37; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

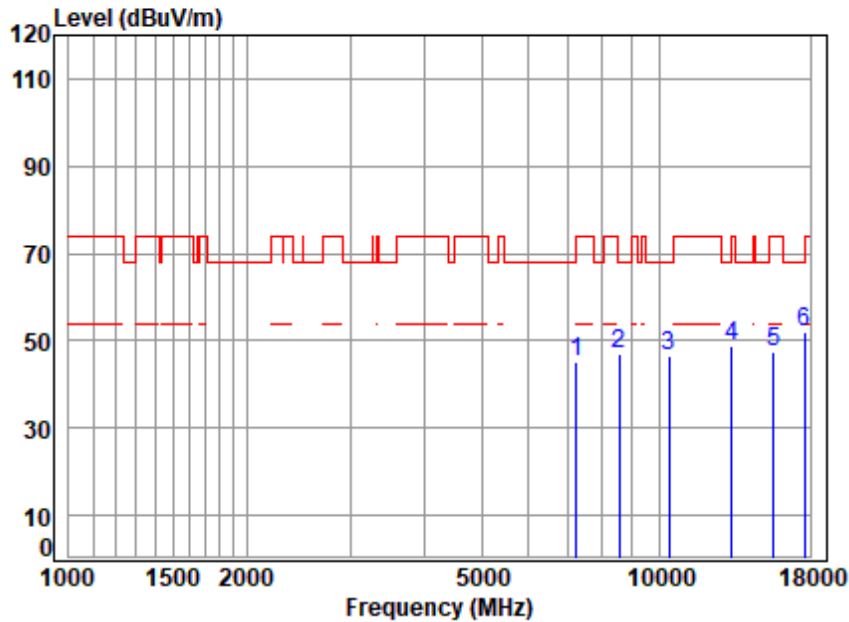
Mode : 5170 TX RSE

: 5G SDR 40M

	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	6894.806	11.37	36.18	56.72	55.98	46.81	68.20	-21.39 Peak
2	8613.468	11.98	38.47	55.35	54.04	49.14	68.20	-19.06 Peak
3	10340.000	13.60	39.00	53.90	48.42	47.12	68.20	-21.08 peak
4	13326.750	16.37	40.30	54.47	48.26	50.46	74.00	-23.54 Peak
5	15510.000	16.92	38.59	54.15	46.92	48.28	74.00	-25.72 peak
6	pp17537.800	18.94	40.67	54.41	46.63	51.83	68.20	-16.37 Peak



Test Mode: 37; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5200 TX RSE

: 5G SDR 40M

	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	7242.052	11.52	36.60	56.51	53.59	45.20	68.20	-23.00 Peak
2	8539.102	12.17	38.30	55.41	51.94	47.00	68.20	-21.20 peak
3	10400.000	13.62	39.00	53.86	47.90	46.66	68.20	-21.54 peak
4	13288.280	16.44	40.29	54.47	46.40	48.66	74.00	-25.34 Peak
5	15600.000	17.17	38.50	54.12	45.71	47.26	74.00	-26.74 peak
6	pp17588.560	19.64	40.37	54.42	46.34	51.93	68.20	-16.27 Peak



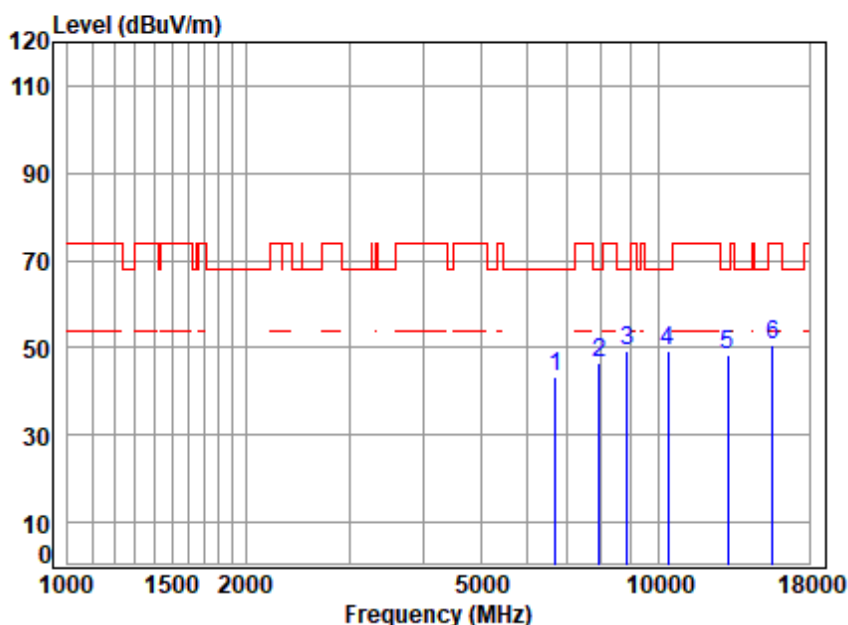
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Test Mode: 37; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5200 TX RSE

: 5G SDR 40M

	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	6698.373	11.41	35.40	56.76	53.51	43.56	68.20	-24.64 Peak
2	7943.838	11.55	37.69	55.94	53.06	46.36	68.20	-21.84 Peak
3	8866.062	12.23	38.53	55.12	53.52	49.16	68.20	-19.04 peak
4	pp10400.000	13.62	39.00	53.86	50.66	49.42	68.20	-18.78 peak
5	13097.620	15.58	40.30	54.49	46.90	48.29	68.20	-19.91 Peak
6	15600.000	17.17	38.50	54.12	49.14	50.69	74.00	-23.31 peak



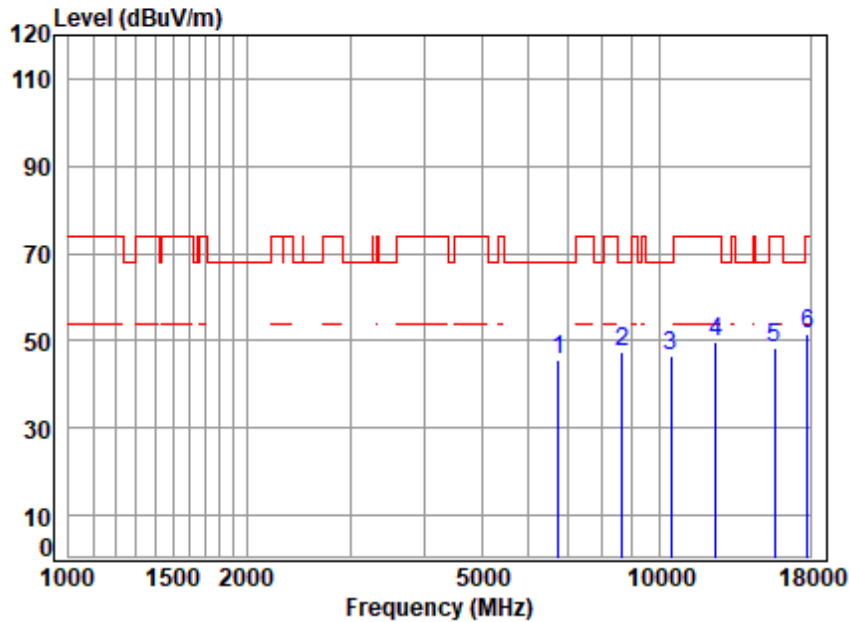
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Test Mode: 37; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

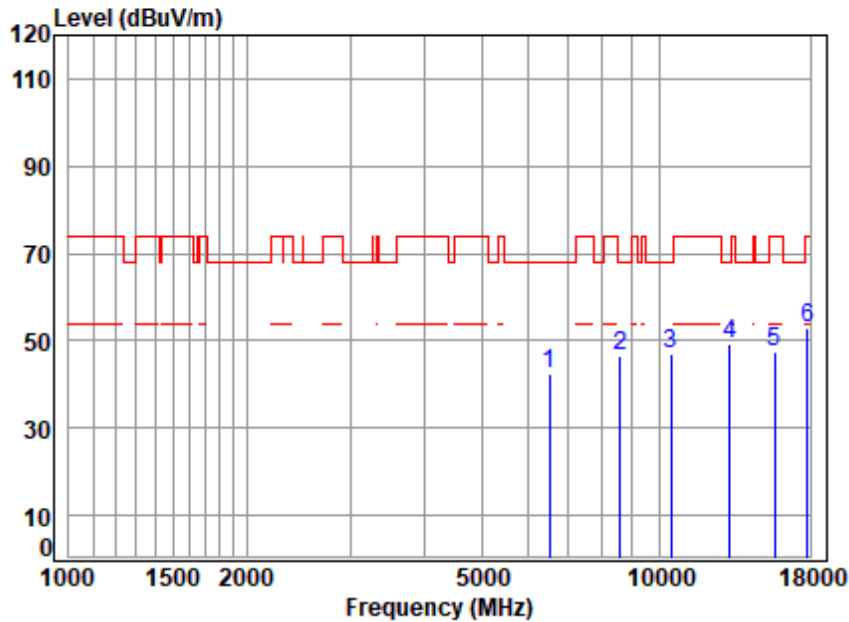
Mode : 5230 TX RSE

: 5G SDR 40M

		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	6756.708	11.39	35.73	56.75	55.09	45.46	68.20	-22.74	Peak
2	8663.404	12.04	38.45	55.30	52.34	47.53	68.20	-20.67	peak
3	10460.000	13.63	39.06	53.82	47.81	46.68	68.20	-21.52	peak
4	12469.610	15.43	39.90	54.13	48.31	49.51	74.00	-24.49	Peak
5	15690.000	17.26	38.59	54.09	46.45	48.21	74.00	-25.79	peak
6	17844.590	18.62	42.77	54.47	44.80	51.72	74.00	-22.28	Peak



Test Mode: 37; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5230 TX RSE

: 5G SDR 40M

	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	6507.536	11.66	34.92	56.80	52.58	42.36	68.20	-25.84 Peak
2	8588.607	12.00	38.45	55.37	51.68	46.76	68.20	-21.44 peak
3	10460.000	13.63	39.06	53.82	48.21	47.08	68.20	-21.12 peak
4	pp13173.560	15.64	40.23	54.48	47.81	49.20	68.20	-19.00 Peak
5	15690.000	17.26	38.59	54.09	45.57	47.33	74.00	-26.67 peak
6	17844.590	18.62	42.77	54.47	45.99	52.91	74.00	-21.09 Peak



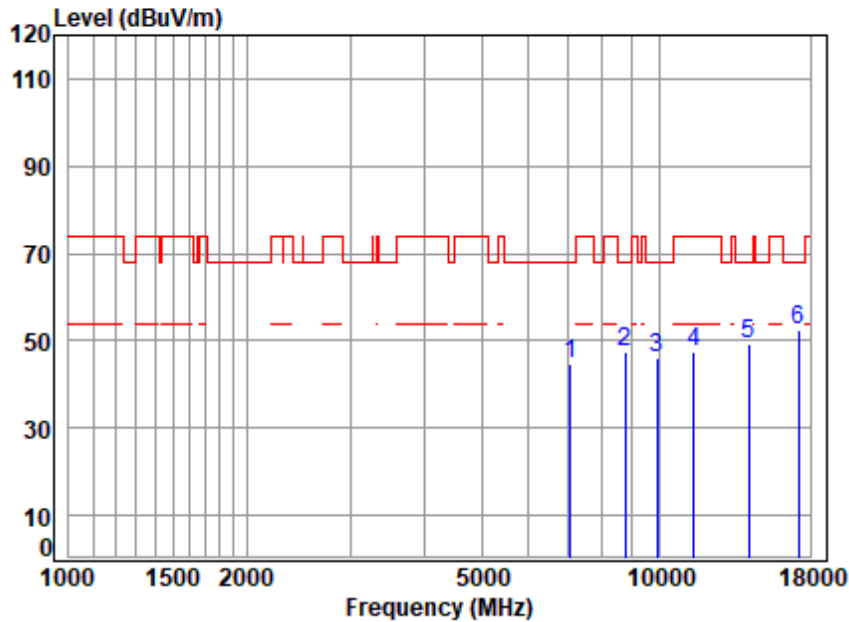
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 59 of 314

Test Mode: 43; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5728.5 TX RSE

: 5.8G SDR 1.4M

	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	7076.516	11.84	36.35	56.64	53.27	44.82	68.20	-23.38 Peak
2	8764.146	12.19	38.50	55.21	51.83	47.31	68.20	-20.89 Peak
3	9923.991	12.85	38.90	54.17	48.52	46.10	68.20	-22.10 Peak
4	11457.000	14.77	39.63	53.64	46.86	47.62	74.00	-26.38 Peak
5	14160.710	16.18	39.84	54.38	47.42	49.06	68.20	-19.14 Peak
6	pp17185.500	17.91	39.89	54.34	49.00	52.46	68.20	-15.74 Peak



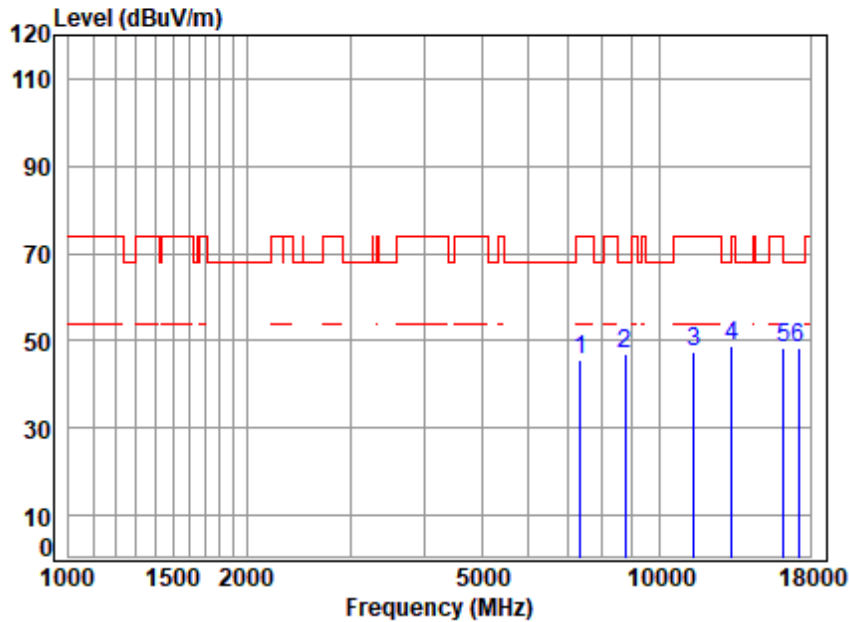
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Shenzhen Branch Inspection & Testing Laboratory

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Test Mode: 43; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

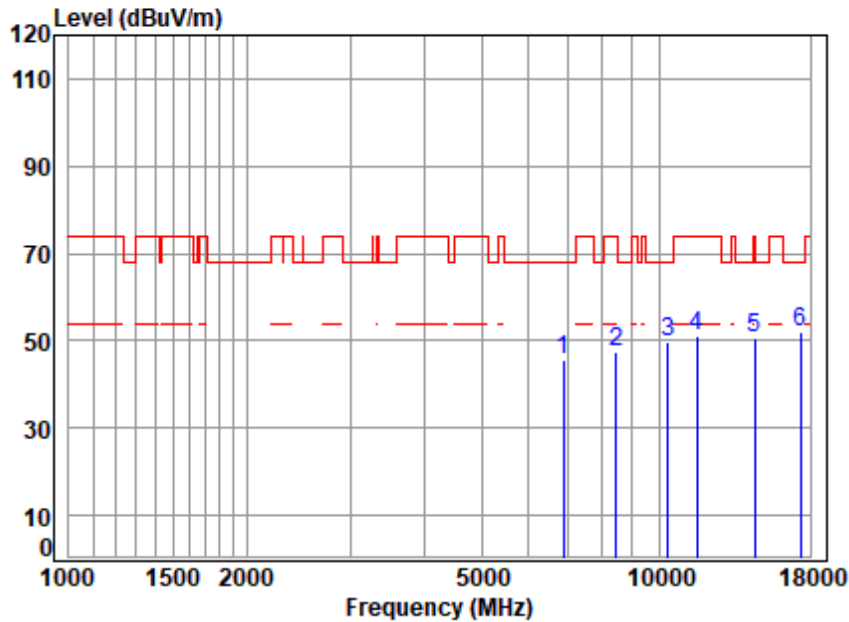
Mode : 5728.5 TX RSE

: 5.8G SDR 1.4M

	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	7347.474	11.51	36.79	56.42	53.63	45.51	74.00 -28.49 Peak
2	8738.852	12.15	38.52	55.24	51.47	46.90	68.20 -21.30 Peak
3	11457.000	14.77	39.63	53.64	46.86	47.62	74.00 -26.38 Peak
4	13288.280	16.44	40.29	54.47	46.60	48.86	74.00 -25.14 Peak
5	16221.190	17.20	38.52	54.07	46.55	48.20	68.20 -20.00 Peak
6	pp17185.500	17.91	39.89	54.34	44.78	48.24	68.20 -19.96 Peak



Test Mode: 43; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

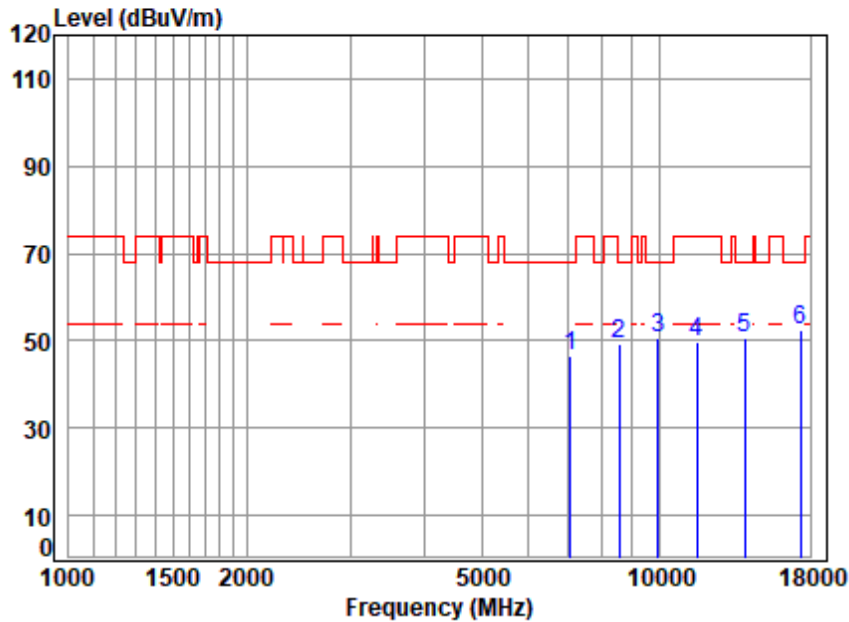
Mode : 5786.5 TX RSE

: 5.8G SDR 1.4M

	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	6874.906	11.37	36.10	56.73	54.70	45.44	68.20	-22.76 Peak
2	8440.945	11.91	38.44	55.50	52.83	47.68	74.00	-26.32 Peak
3	10363.710	13.61	39.00	53.88	51.03	49.76	68.20	-18.44 Peak
4	11573.000	14.79	39.60	53.67	50.49	51.21	74.00	-22.79 Peak
5	14491.960	17.07	39.51	54.35	48.28	50.51	74.00	-23.49 Peak
6	pp17359.500	17.95	40.27	54.37	47.96	51.81	68.20	-16.39 Peak



Test Mode: 43; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5786.5 TX RSE

: 5.8G SDR 1.4M

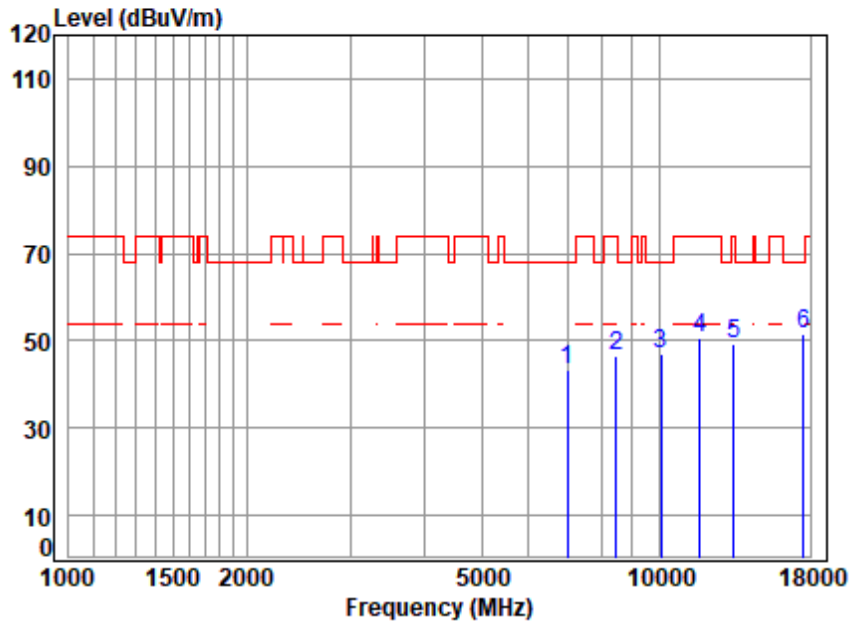
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7076.516	11.84	36.35	56.64	55.00	46.55	68.20	-21.65 Peak
2	8539.102	12.17	38.30	55.41	54.27	49.33	68.20	-18.87 Peak
3	9952.717	12.91	38.90	54.14	52.84	50.51	68.20	-17.69 Peak
4	11573.000	14.79	39.60	53.67	48.97	49.69	74.00	-24.31 Peak
5	13957.530	16.24	39.90	54.40	48.86	50.60	68.20	-17.60 Peak
6	pp17359.500	17.95	40.27	54.37	48.75	52.60	68.20	-15.60 Peak



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Test Mode: 43; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

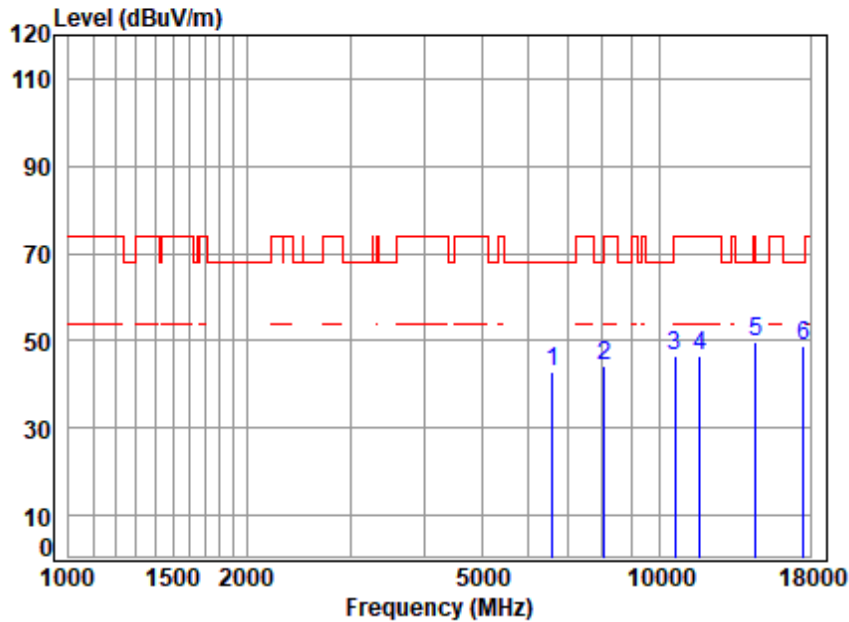
Job No : 04719AT

Mode : 5846.12 TX RSE
: 5.8G SDR 1.4M

	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	6974.982	11.37	36.15	56.71	52.73	43.54	68.20	-24.66 Peak
2	8440.945	11.91	38.44	55.50	51.88	46.73	74.00	-27.27 Peak
3	10068.450	13.19	39.04	54.06	48.96	47.13	68.20	-21.07 Peak
4	11692.240	14.73	39.50	53.71	49.99	50.51	74.00	-23.49 Peak
5	13365.320	16.13	40.30	54.46	47.47	49.44	74.00	-24.56 Peak
6	pp17538.360	18.94	40.67	54.41	46.19	51.39	68.20	-16.81 Peak



Test Mode: 43; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5846.12 TX RSE
: 5.8G SDR 1.4M

	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	6602.265	11.60	35.21	56.78	53.07	43.10	68.20 -25.10 Peak
2	8059.475	11.49	37.80	55.85	50.88	44.32	74.00 -29.68 Peak
3	10636.850	13.76	39.34	53.72	47.18	46.56	74.00 -27.44 Peak
4	11692.240	14.73	39.50	53.71	46.05	46.57	74.00 -27.43 Peak
5	pp14533.910	16.79	39.43	54.35	48.09	49.96	68.20 -18.24 Peak
6	17538.360	18.94	40.67	54.41	43.50	48.70	68.20 -19.50 Peak



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7.5 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 59.4 % RH

Atmospheric Pressure: 1020 mbar



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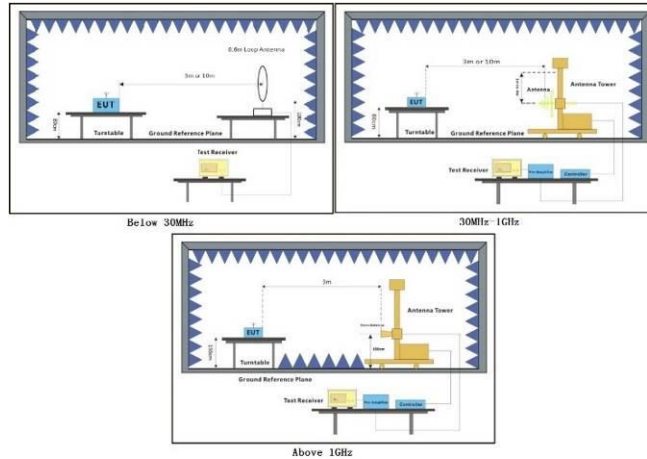
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7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	11	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	12	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 @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

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

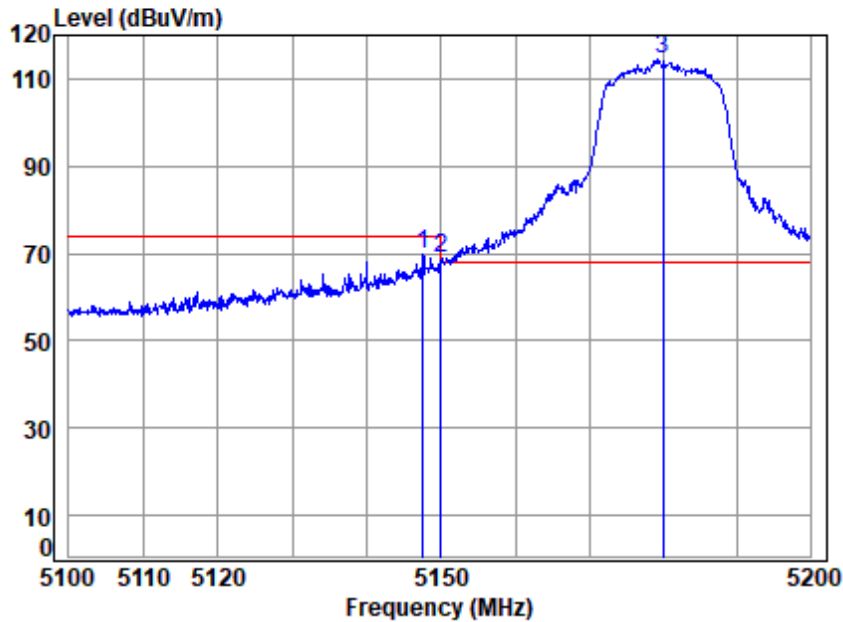
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

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



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



Condition: 3m HORIZONTAL

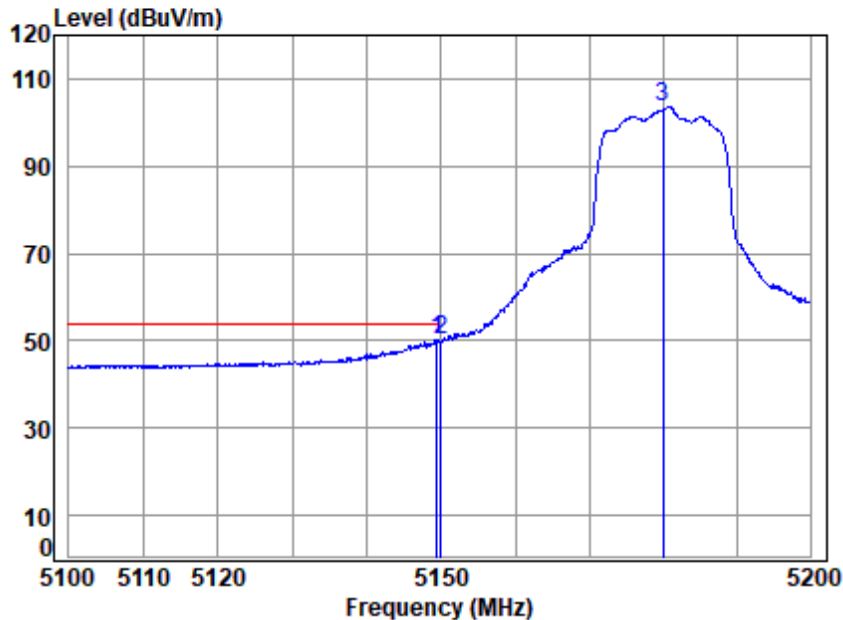
Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.558	10.13	32.40	30.84	57.96	69.65	74.00	-4.35	peak
2	5149.980	10.14	32.40	30.84	57.21	68.91	74.00	-5.09	peak
3 pp	5180.000	10.25	32.46	30.83	102.49	114.37	68.20	46.17	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11a

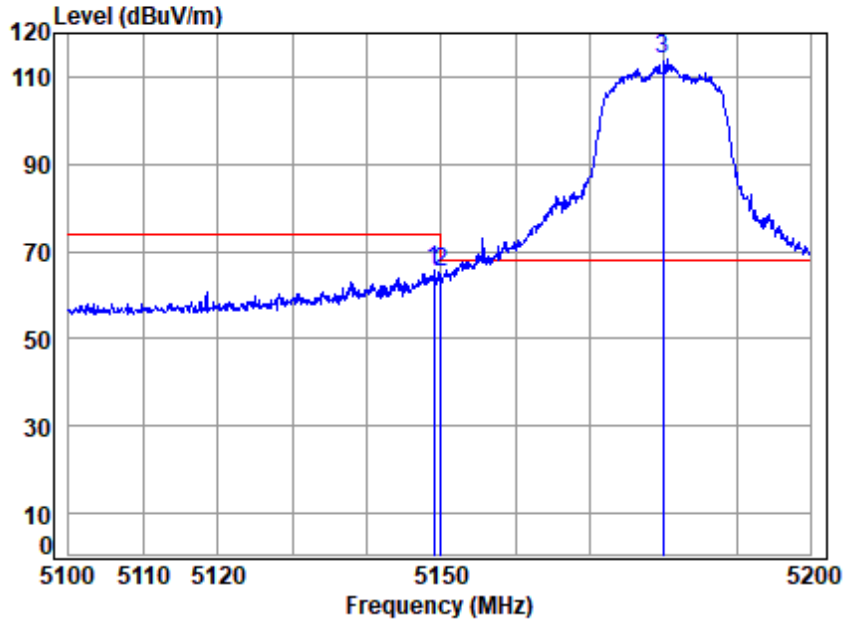
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.357	10.14	32.40	30.84	38.61	50.31	54.00	-3.69	Average
2	5149.980	10.14	32.40	30.84	38.46	50.16	54.00	-3.84	Average
3	5180.000	10.25	32.46	30.83	91.68	103.56	-----	-----	Average



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



Condition: 3m VERTICAL

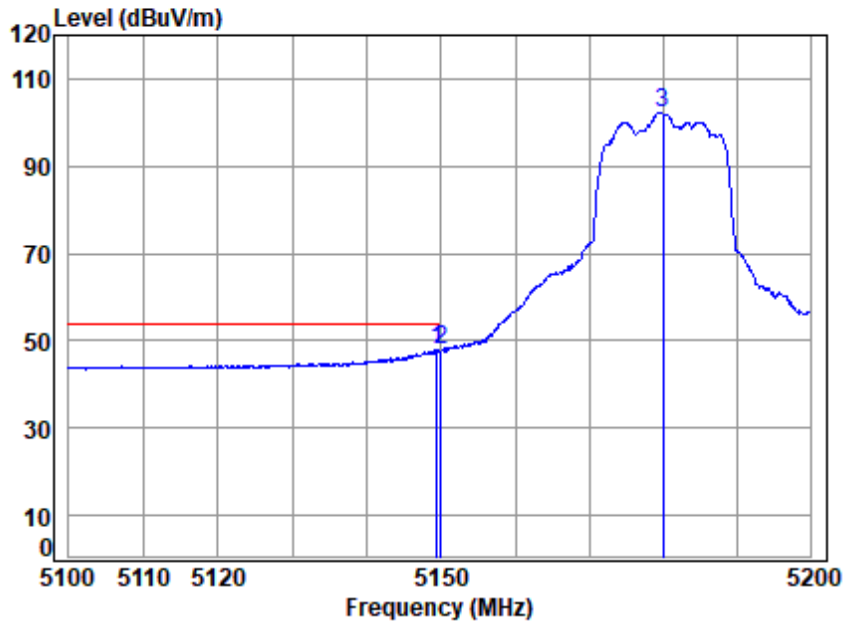
Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	10.14	32.40	30.84	53.90	65.60	74.00	-8.40 Peak
2	5149.980	10.14	32.40	30.84	53.46	65.16	74.00	-8.84 Peak
3 pp	5180.000	10.25	32.46	30.83	102.09	113.97	68.20	45.77 Peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11a

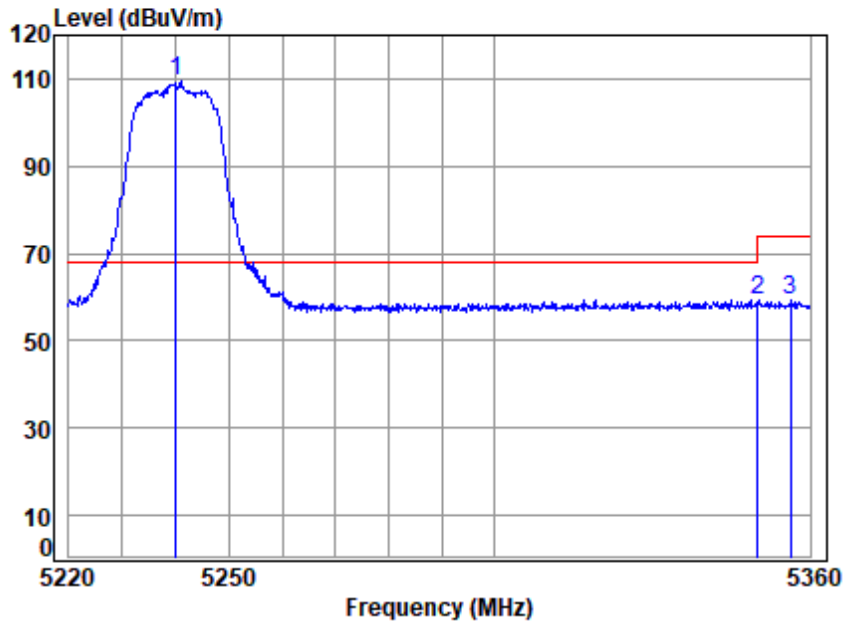
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	10.14	32.40	30.84	36.23	47.93	54.00	-6.07	Average
2 pp	5149.980	10.14	32.40	30.84	36.39	48.09	54.00	-5.91	Average
3	5180.000	10.25	32.46	30.83	90.35	102.23	-----	-----	Average



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



Condition: 3m HORIZONTAL

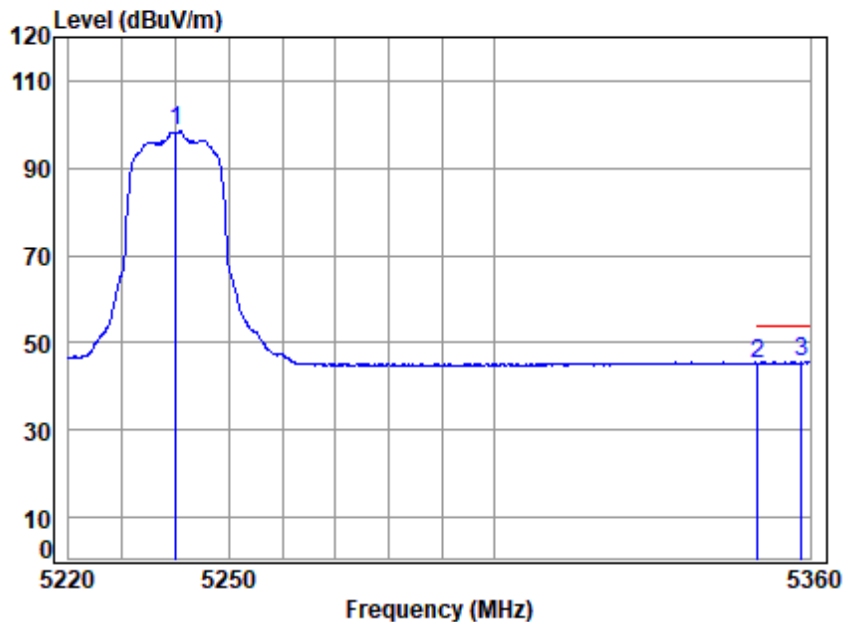
Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	97.29	109.38	68.20	41.18	peak
2	5350.020	10.45	32.80	30.76	46.83	59.32	74.00	-14.68	peak
3	5356.313	10.47	32.80	30.76	46.90	59.41	74.00	-14.59	peak



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



Condition: 3m HORIZONTAL

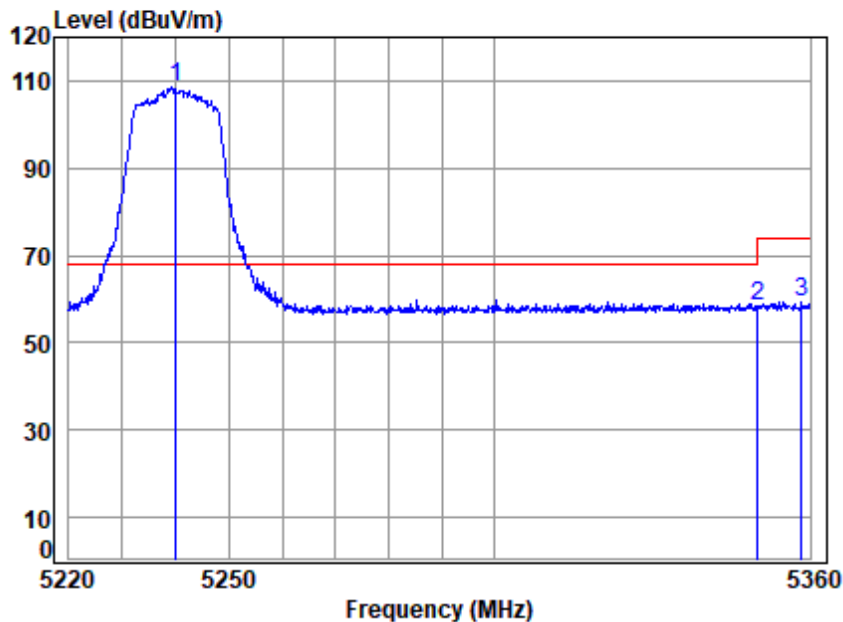
Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	10.31	32.58	30.80	86.29	98.38	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.87	45.36	54.00	-8.64	Average
3 pp	5358.440	10.48	32.80	30.76	33.11	45.63	54.00	-8.37	Average



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	96.58	108.67	68.20	40.47	Peak
2	5350.020	10.45	32.80	30.76	45.93	58.42	74.00	-15.58	Peak
3	5358.440	10.48	32.80	30.76	46.80	59.32	74.00	-14.68	Peak



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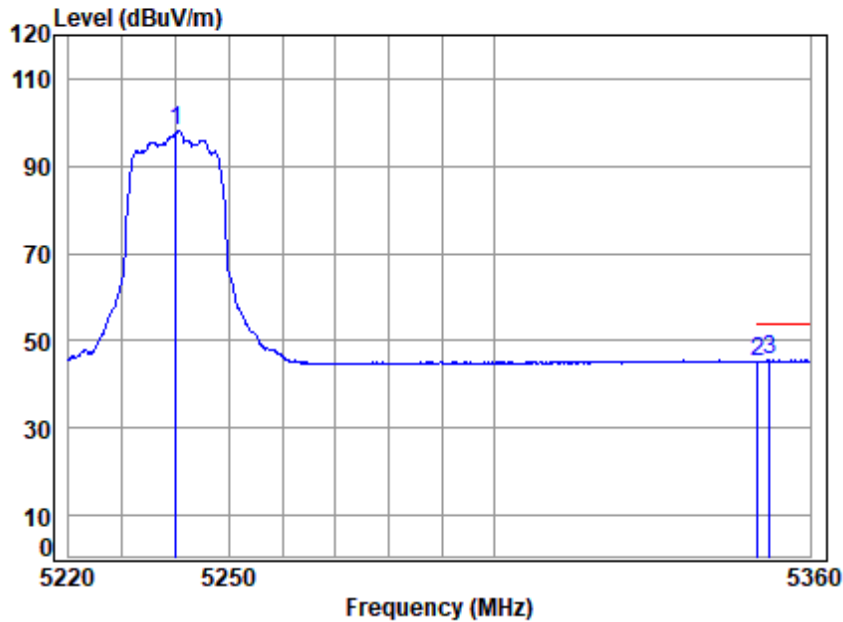
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	10.31	32.58	30.80	85.83	97.92	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.81	45.30	54.00	-8.70	Average
3 pp	5352.203	10.46	32.80	30.76	33.07	45.57	54.00	-8.43	Average



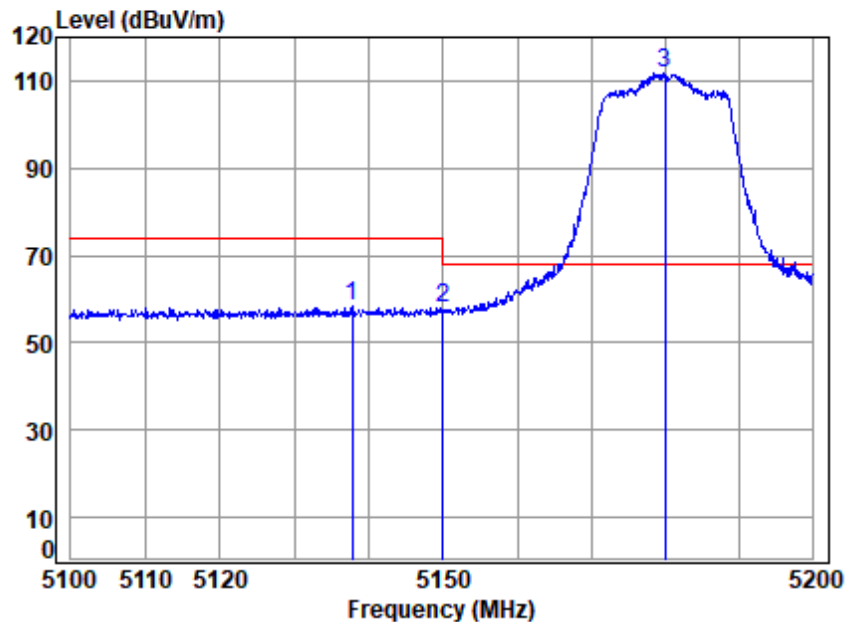
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Shenzhen Branch Inspection & Testing Laboratory

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

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



Condition: 3m HORIZONTAL

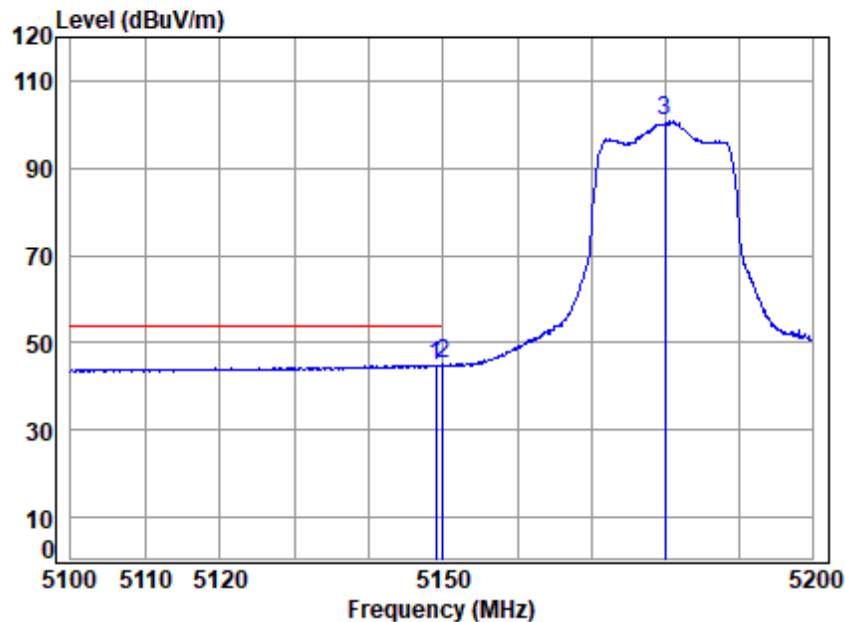
Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11n20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5137.771	10.09	32.38	30.84	46.57	58.20	74.00	-15.80	peak
5149.980	10.14	32.40	30.84	46.10	57.80	74.00	-16.20	peak
5180.000	10.25	32.46	30.83	100.02	111.90	68.20	43.70	peak



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



Condition: 3m HORIZONTAL

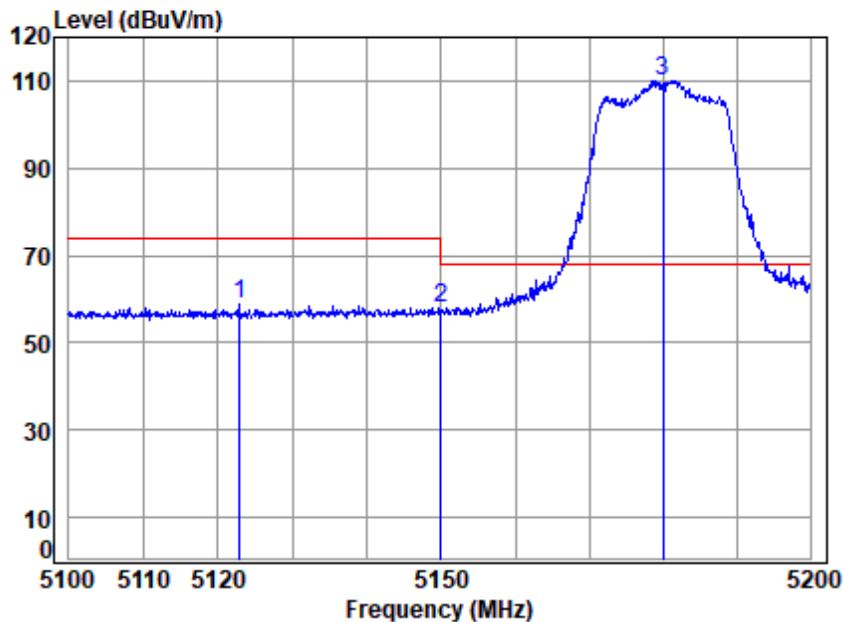
Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	10.14	32.40	30.84	33.23	44.93	54.00	-9.07	Average
2 pp	5149.980	10.14	32.40	30.84	33.29	44.99	54.00	-9.01	Average
3	5180.000	10.25	32.46	30.83	88.93	100.81	-----	-----	Average



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11n20

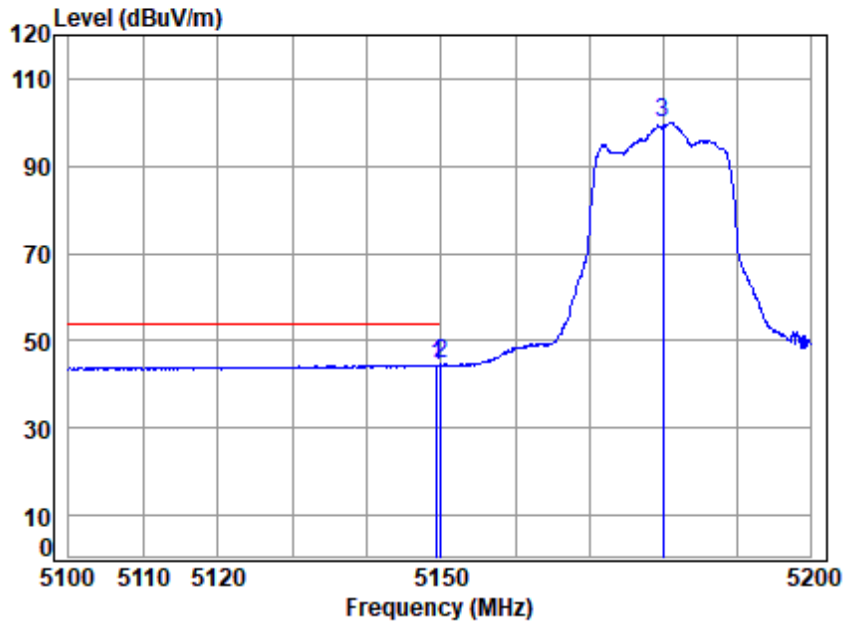
		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5122.828	10.04	32.35	30.85	47.14	58.68	74.00	-15.32	Peak
2	5149.980	10.14	32.40	30.84	46.47	58.17	74.00	-15.83	Peak
3	pp 5180.000	10.25	32.46	30.83	98.27	110.15	68.20	41.95	Peak



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



Condition: 3m VERTICAL

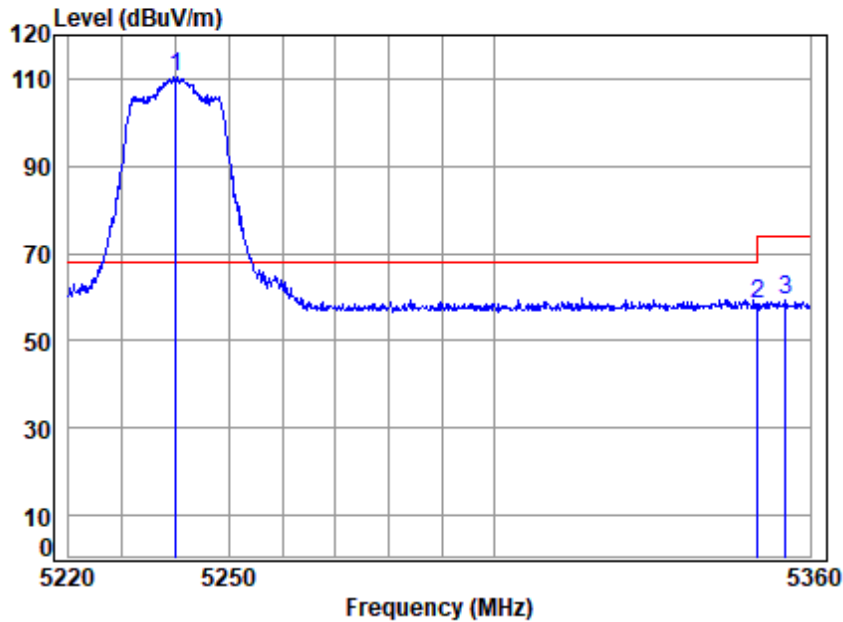
Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	32.76	44.46	54.00	-9.54	Average
2 pp	5149.980	10.14	32.40	30.84	32.91	44.61	54.00	-9.39	Average
3	5180.000	10.25	32.46	30.83	88.07	99.95	-----	-----	Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11n20

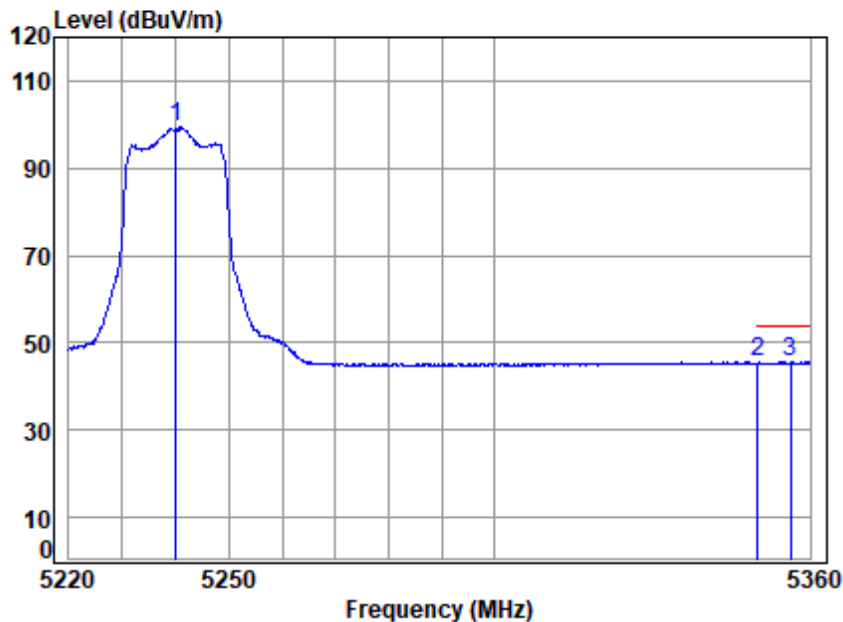
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	98.16	110.25	68.20	42.05	peak
2	5350.020	10.45	32.80	30.76	45.74	58.23	74.00	-15.77	peak
3	5355.321	10.47	32.80	30.76	46.63	59.14	74.00	-14.86	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11n20

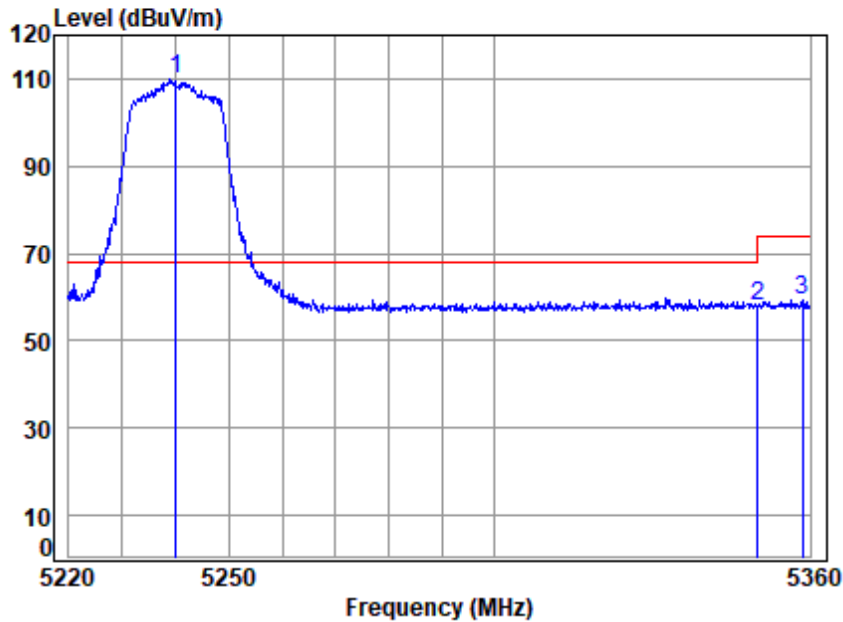
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	10.31	32.58	30.80	87.32	99.41	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.93	45.42	54.00	-8.58	Average
3 pp	5356.171	10.47	32.80	30.76	33.11	45.62	54.00	-8.38	Average



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11n20

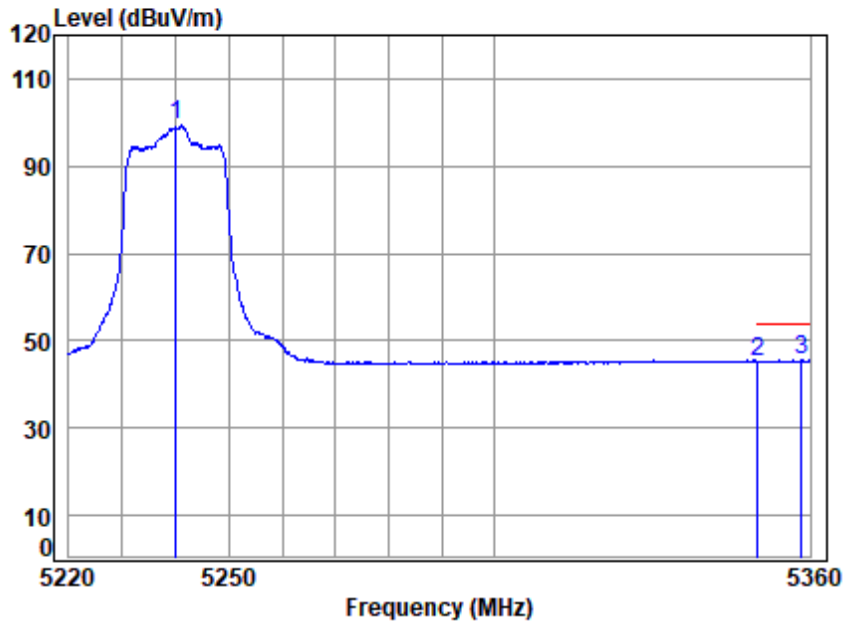
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	98.00	110.09	68.20	41.89	Peak
2	5350.020	10.45	32.80	30.76	45.45	57.94	74.00	-16.06	Peak
3	5358.582	10.48	32.80	30.76	46.78	59.30	74.00	-14.70	Peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11n20

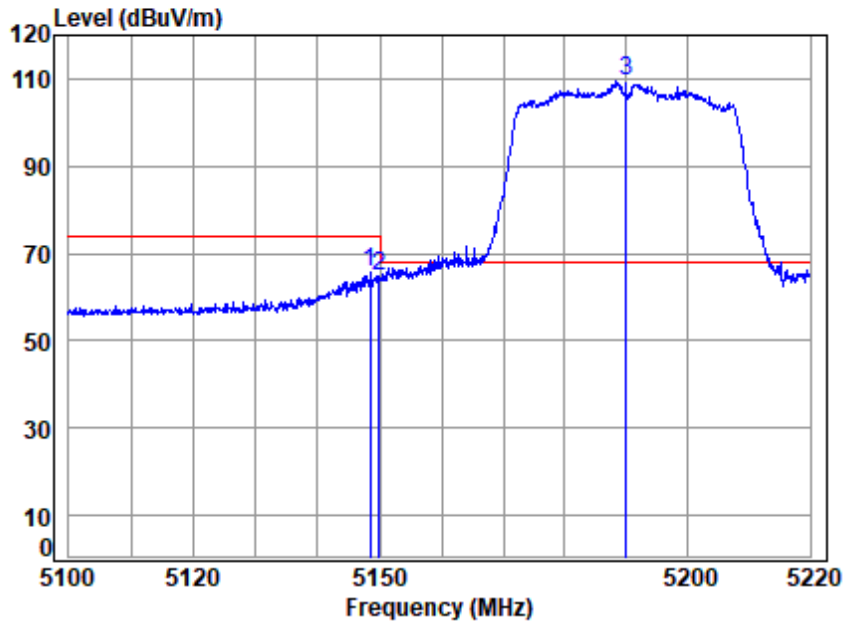
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	10.31	32.58	30.80	87.17	99.26	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.84	45.33	54.00	-8.67	Average
3 pp	5358.440	10.48	32.80	30.76	33.22	45.74	54.00	-8.26	Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5190 Band edge
: 5G Wi-Fi 11n40

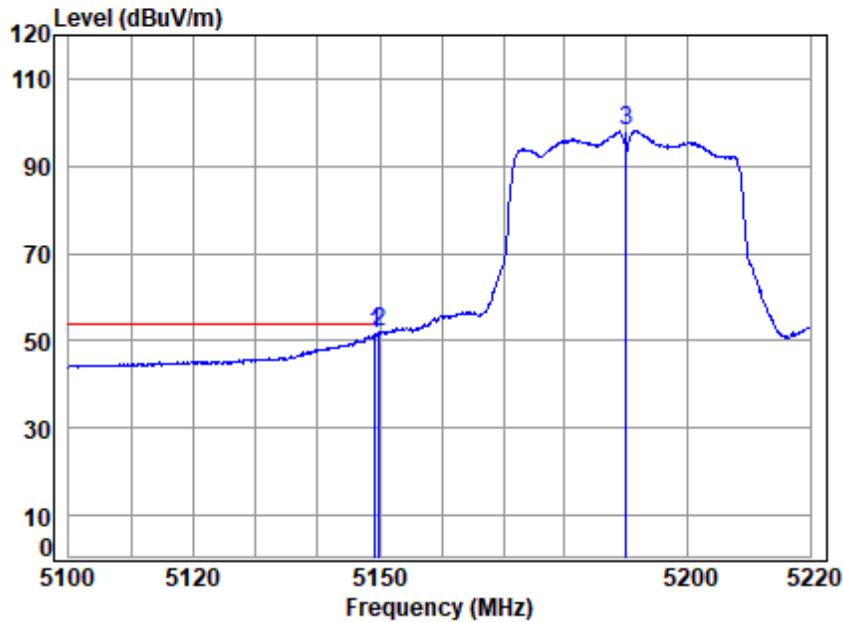
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.384	10.13	32.40	30.84	54.00	65.69	74.00	-8.31	peak
2	5149.980	10.14	32.40	30.84	52.98	64.68	74.00	-9.32	peak
3 pp	5190.000	10.29	32.48	30.82	97.36	109.31	68.20	41.11	peak



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



Condition: 3m HORIZONTAL

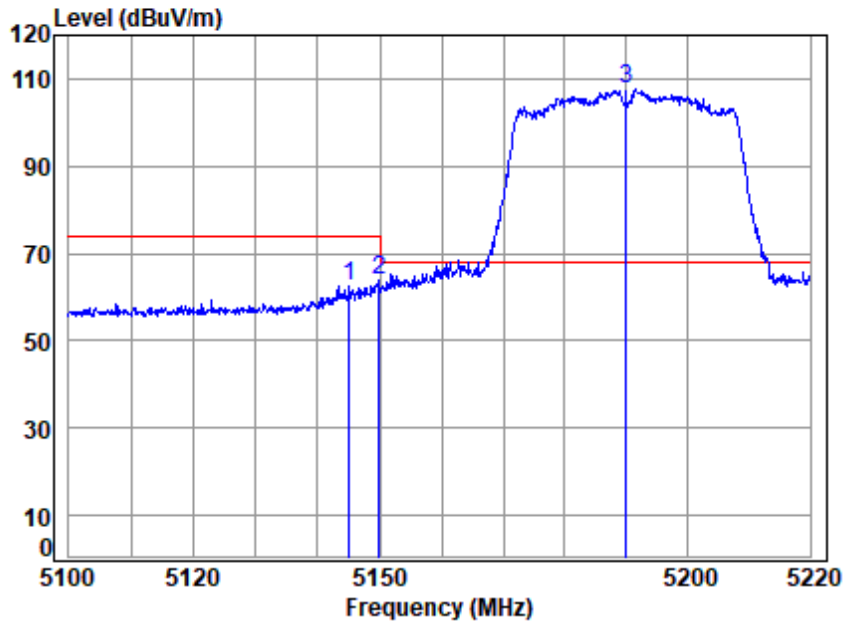
Job No : 04719AT

Mode : 5190 Band edge
: 5G Wi-Fi 11n40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.342	10.14	32.40	30.84	39.83	51.53	54.00	-2.47 Average
2 pp	5149.980	10.14	32.40	30.84	40.18	51.88	54.00	-2.12 Average
3	5190.000	10.29	32.48	30.82	86.34	98.29	-----	----- Average



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



Condition: 3m VERTICAL

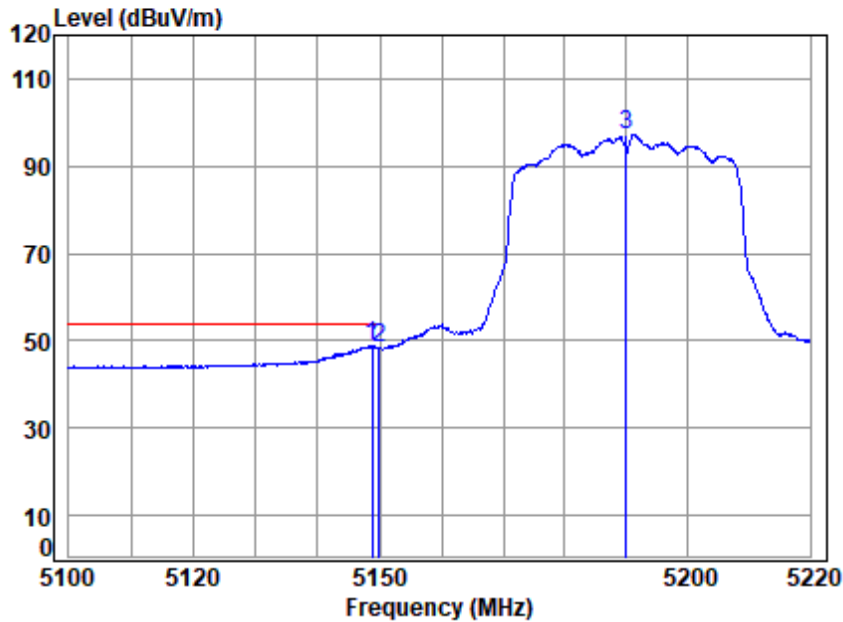
Job No : 04719AT

Mode : 5190 Band edge
: 5G Wi-Fi 11n40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.152	10.12	32.39	30.84	50.96	62.63	74.00	-11.37 Peak
2	5149.980	10.14	32.40	30.84	52.00	63.70	74.00	-10.30 Peak
3	pp 5190.000	10.29	32.48	30.82	95.59	107.54	68.20	39.34 Peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5190 Band edge
: 5G Wi-Fi 11n40

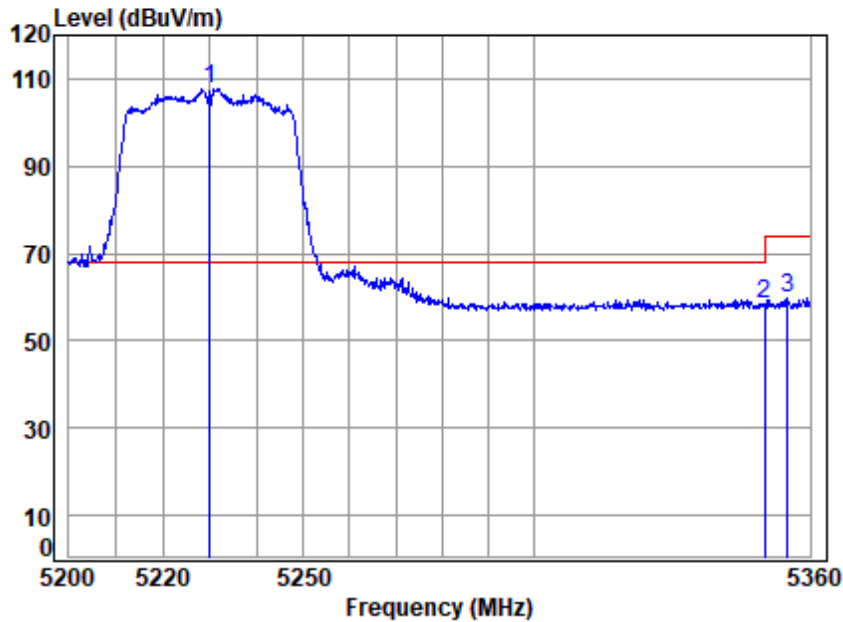
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5148.743	10.14	32.40	30.84	37.11	48.81	54.00	-5.19	Average
2 5149.980	10.14	32.40	30.84	36.75	48.45	54.00	-5.55	Average
3 5190.000	10.29	32.48	30.82	85.38	97.33	-----	-----	Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 11n40

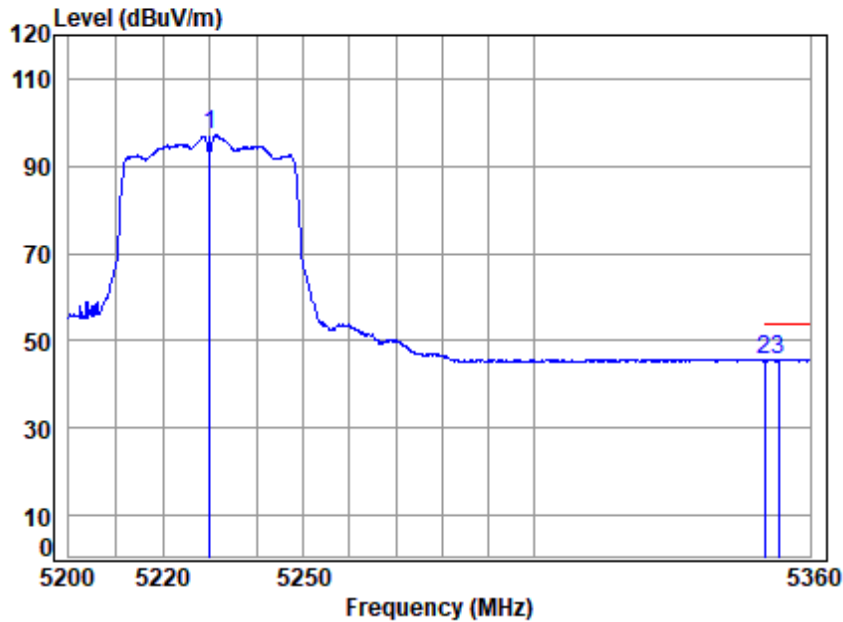
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	10.31	32.56	30.81	95.64	107.70	68.20	39.50	peak
2	5350.020	10.45	32.80	30.76	46.07	58.56	74.00	-15.44	peak
3	5355.129	10.47	32.80	30.76	47.33	59.84	74.00	-14.16	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 11n40

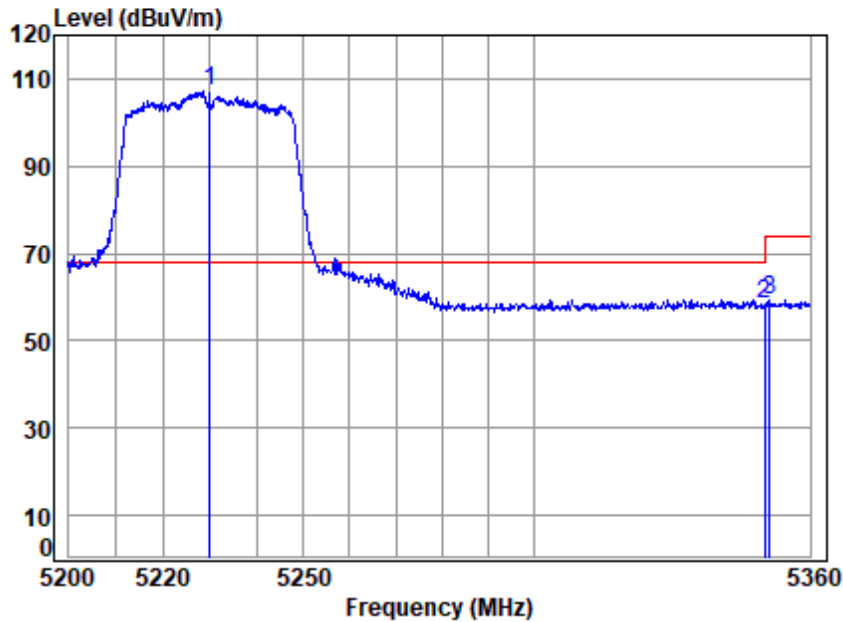
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	10.31	32.56	30.81	85.31	97.37	-----	-----	Average
2	5350.020	10.45	32.80	30.76	33.11	45.60	54.00	-8.40	Average
3 pp	5353.182	10.46	32.80	30.76	33.33	45.83	54.00	-8.17	Average



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	10.31	32.56	30.81	95.04	107.10	68.20	38.90	Peak
2	5350.020	10.45	32.80	30.76	45.86	58.35	74.00	-15.65	Peak
3	5351.235	10.45	32.80	30.76	46.85	59.34	74.00	-14.66	Peak



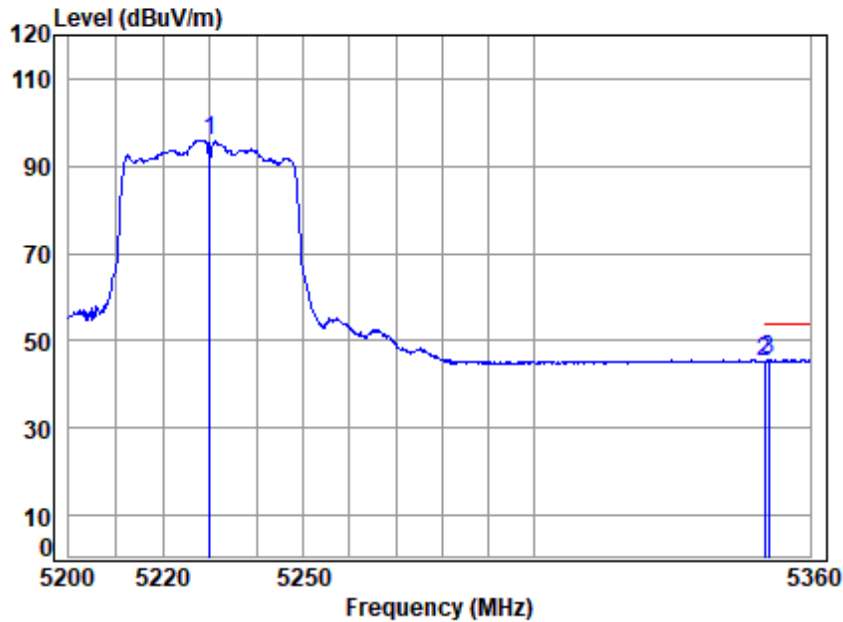
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	10.31	32.56	30.81	83.84	95.90	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.86	45.35	54.00	-8.65	Average
3 pp	5350.911	10.45	32.80	30.76	33.16	45.65	54.00	-8.35	Average



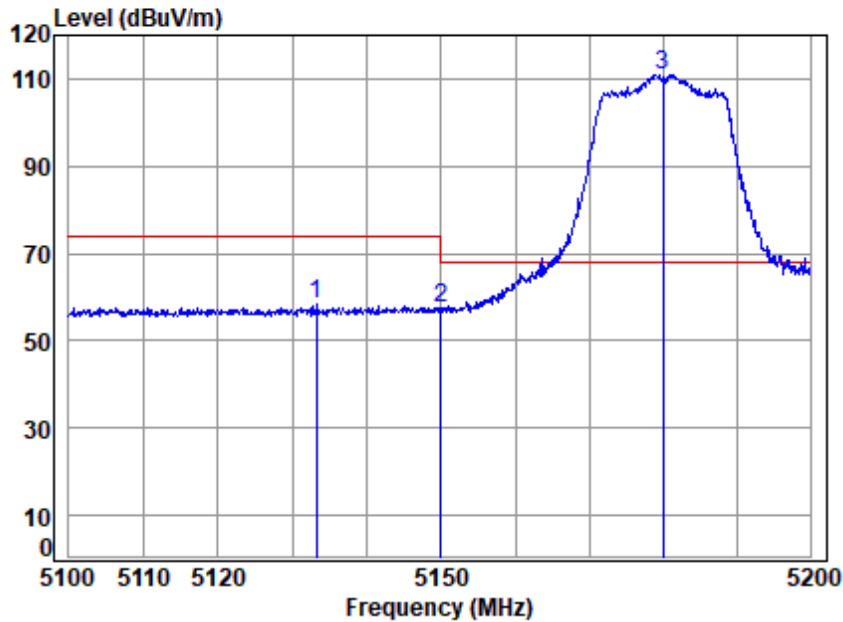
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center (CCLC) Laboratory

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

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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5180 Band edge

: 5G Wi-Fi 11ac20

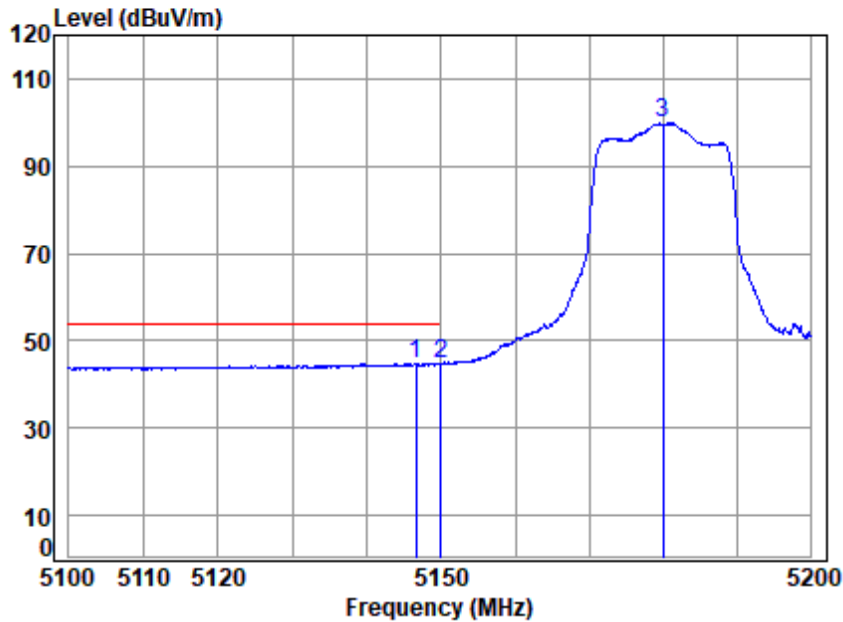
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5133.184	10.08	32.37	30.85	46.60	58.20	74.00	-15.80	peak
2 5149.980	10.14	32.40	30.84	45.97	57.67	74.00	-16.33	peak
3 pp 5180.000	10.25	32.46	30.83	99.21	111.09	68.20	42.89	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5180 Band edge

: 5G Wi-Fi 11ac20

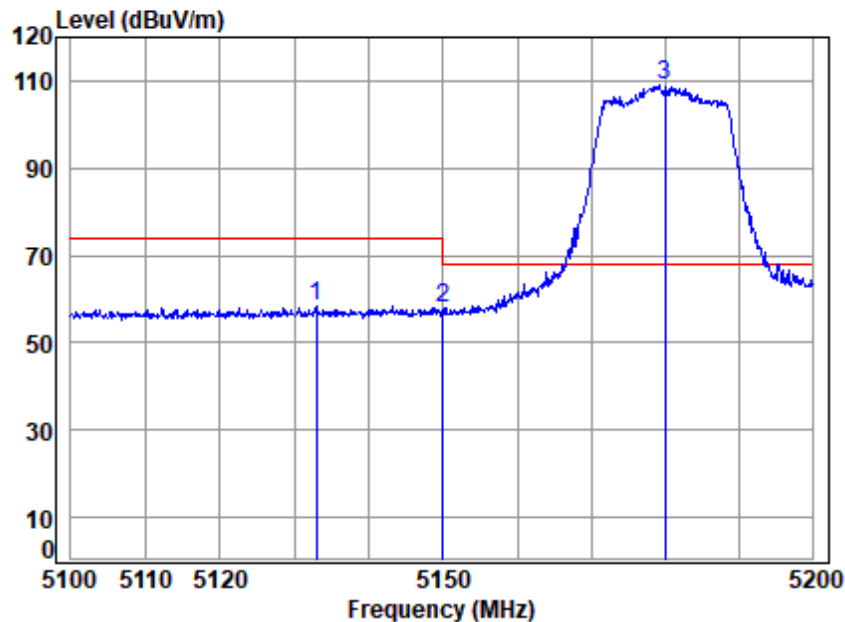
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.558	10.13	32.39	30.84	33.17	44.85	54.00	-9.15	Average
2	pp 5149.980	10.14	32.40	30.84	33.18	44.88	54.00	-9.12	Average
3	5180.000	10.25	32.46	30.83	88.04	99.92	-----	-----	Average



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



Condition: 3m VERTICAL

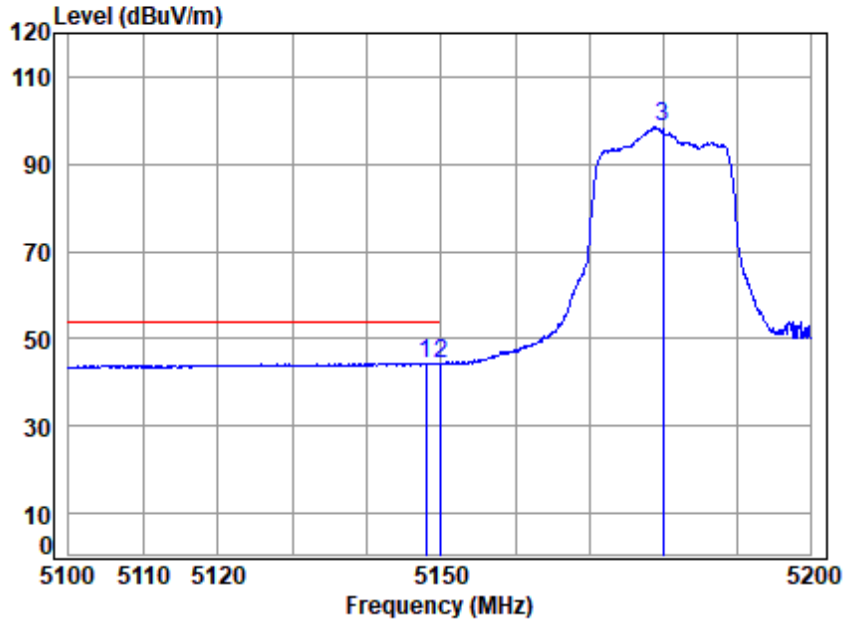
Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 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	5132.885	10.07	32.37	30.85	46.93	58.52	74.00 -15.48 Peak
2	5149.980	10.14	32.40	30.84	46.20	57.90	74.00 -16.10 Peak
3 pp	5180.000	10.25	32.46	30.83	97.15	109.03	68.20 40.83 Peak



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



Condition: 3m VERTICAL

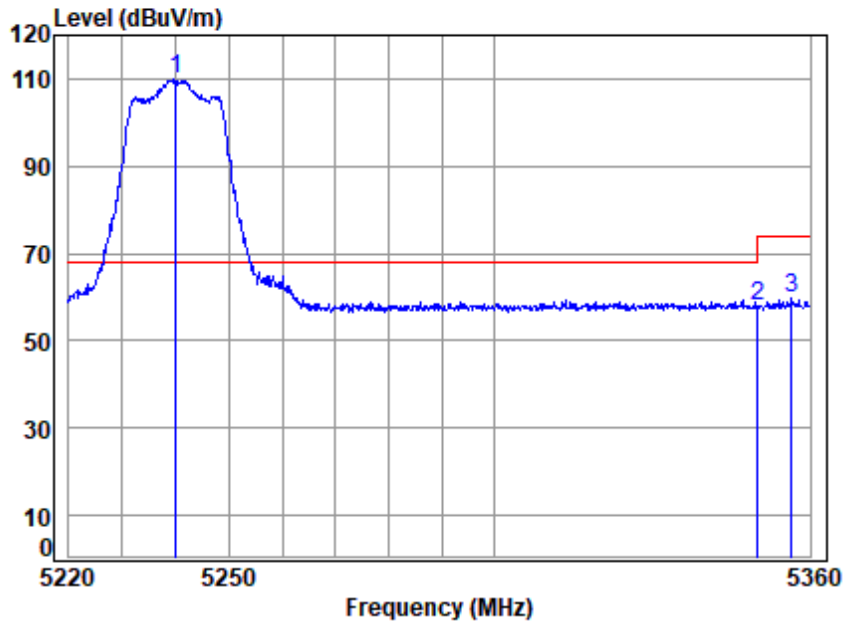
Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 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	5147.958	10.13	32.40	30.84	32.72	44.41	54.00	-9.59 Average
2 pp	5149.980	10.14	32.40	30.84	32.74	44.44	54.00	-9.56 Average
3	5180.000	10.25	32.46	30.83	86.55	98.43	-----	----- Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5240 Band edge

: 5G Wi-Fi 11ac20

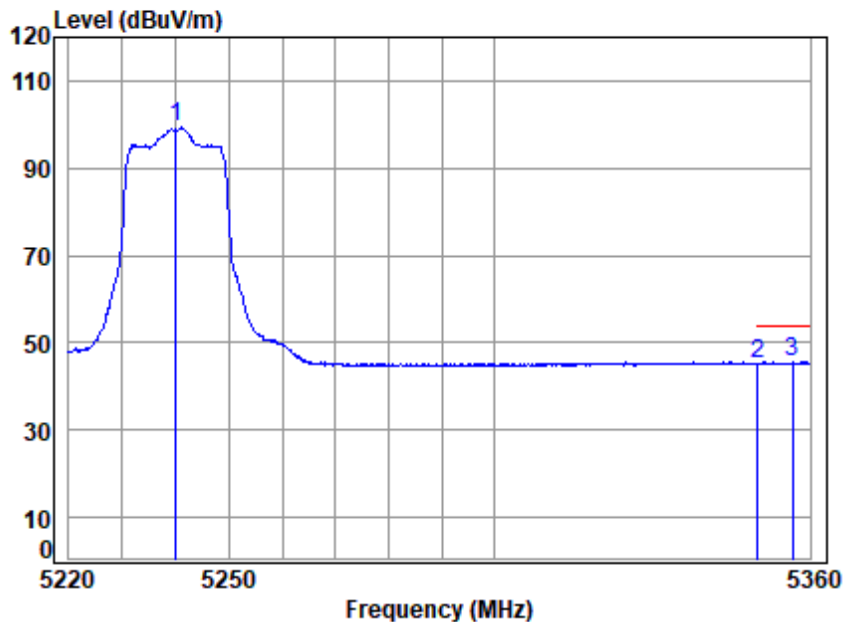
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	97.65	109.74	68.20	41.54	peak
2	5350.020	10.45	32.80	30.76	45.54	58.03	74.00	-15.97	peak
3	5356.455	10.47	32.80	30.76	47.26	59.77	74.00	-14.23	peak



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



Condition: 3m HORIZONTAL

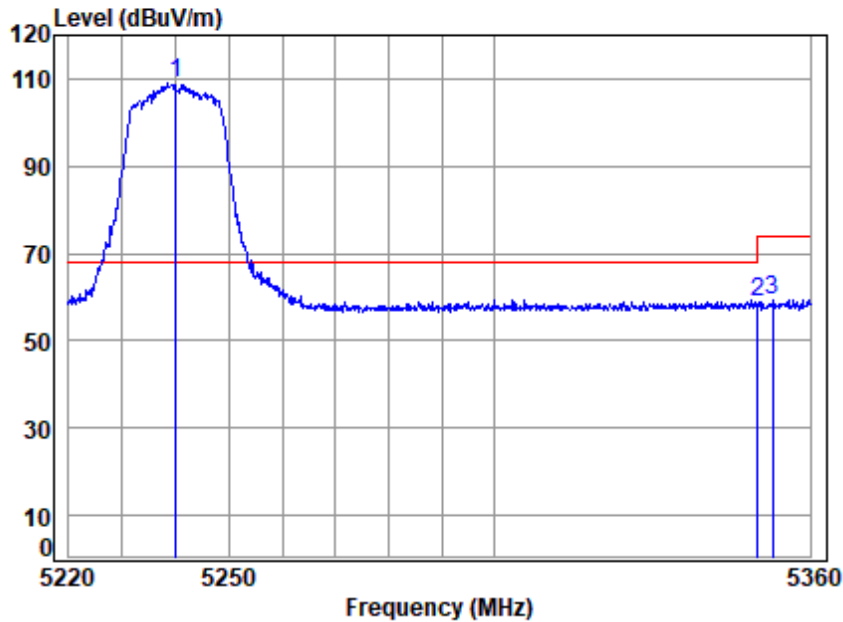
Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 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	5240.000	10.31	32.58	30.80	87.18	99.27	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.82	45.31	54.00	-8.69	Average
3 pp	5356.738	10.47	32.80	30.76	33.12	45.63	54.00	-8.37	Average



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11ac20

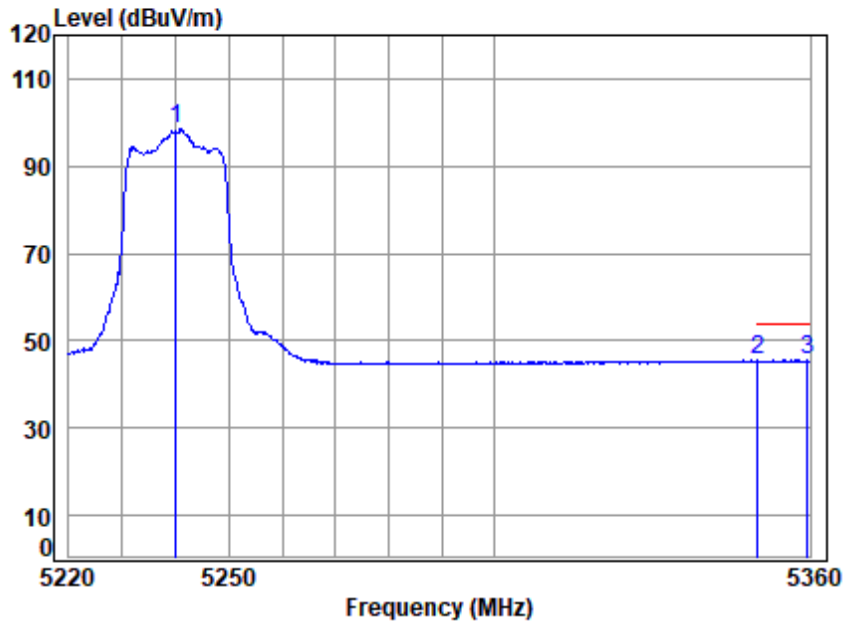
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	96.79	108.88	68.20	40.68	Peak
2	5350.020	10.45	32.80	30.76	46.19	58.68	74.00	-15.32	Peak
3	5352.770	10.46	32.80	30.76	46.88	59.38	74.00	-14.62	Peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11ac20

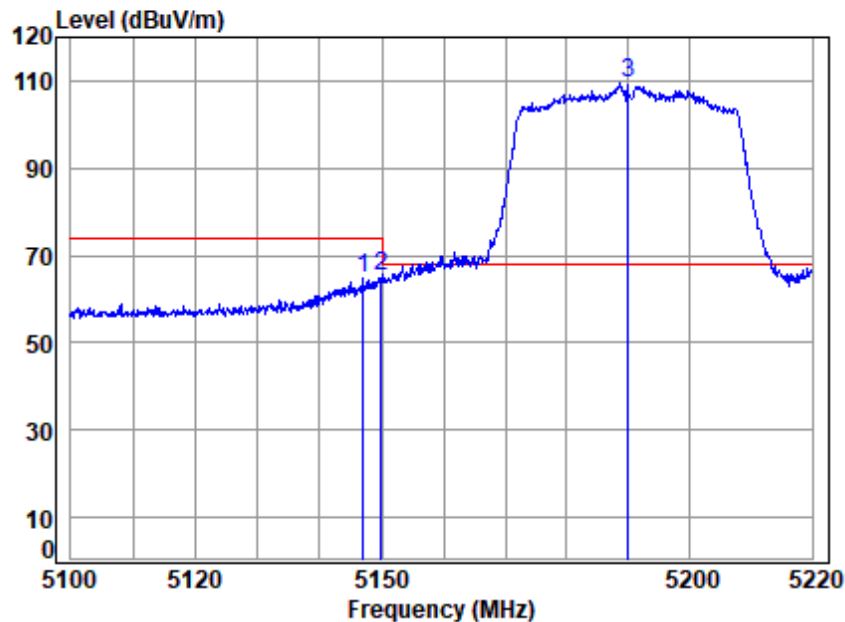
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	10.31	32.58	30.80	86.35	98.44	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.98	45.47	54.00	-8.53	Average
3 pp	5359.433	10.48	32.80	30.76	33.17	45.69	54.00	-8.31	Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

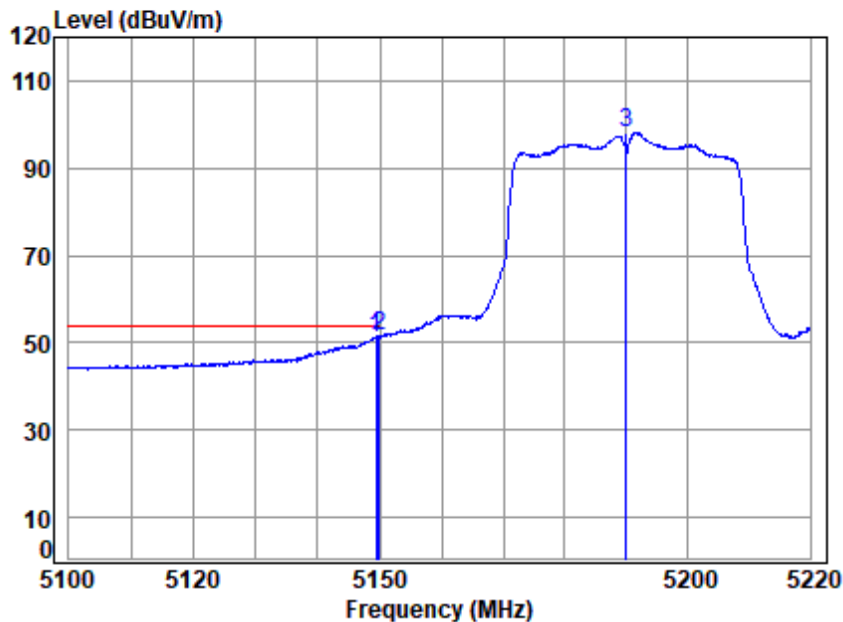
Mode : 5190 Band edge

: 5G Wi-Fi 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	5146.947	10.13	32.39	30.84	53.26	64.94	74.00 -9.06 peak
2	5149.980	10.14	32.40	30.84	53.51	65.21	74.00 -8.79 peak
3 pp	5190.000	10.29	32.48	30.82	97.57	109.52	68.20 41.32 peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

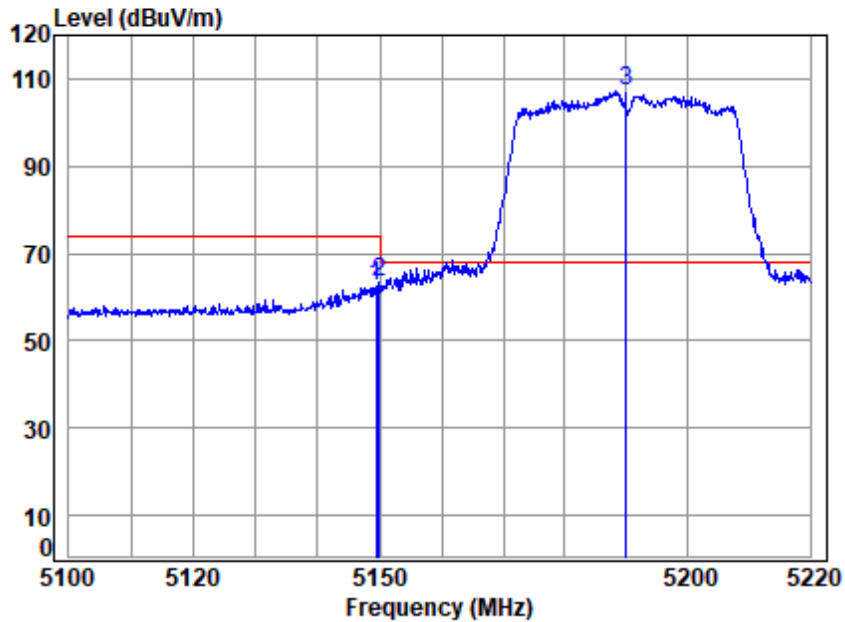
Mode : 5190 Band edge

: 5G Wi-Fi 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	5149.461	10.14	32.40	30.84	39.60	51.30	54.00	-2.70 Average
2 pp	5149.980	10.14	32.40	30.84	39.96	51.66	54.00	-2.34 Average
3	5190.000	10.29	32.48	30.82	86.16	98.11	-----	----- Average



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5190 Band edge
: 5G Wi-Fi 11ac40

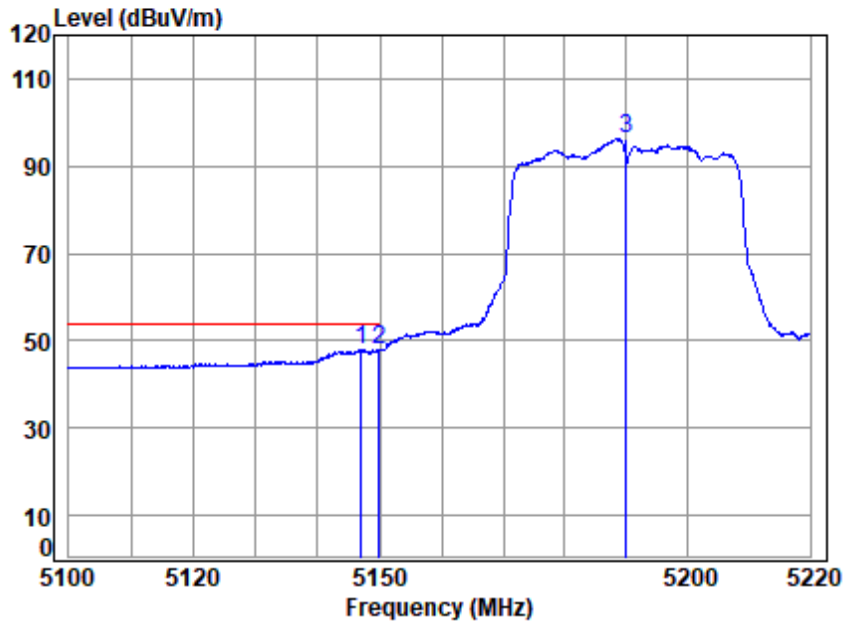
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.461	10.14	32.40	30.84	50.71	62.41	74.00 -11.59 Peak
2	5149.980	10.14	32.40	30.84	51.76	63.46	74.00 -10.54 Peak
3	pp 5190.000	10.29	32.48	30.82	95.35	107.30	68.20 39.10 Peak



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



Condition: 3m VERTICAL

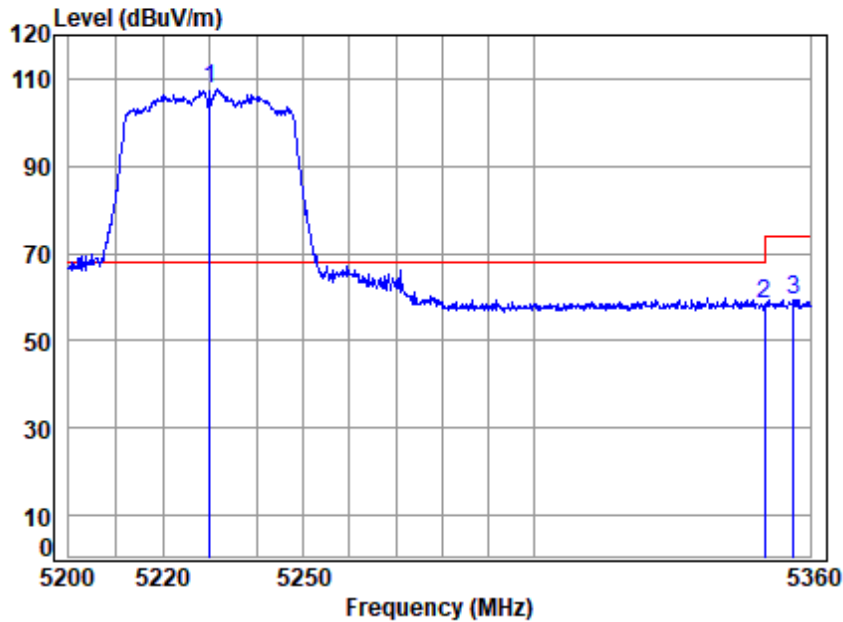
Job No : 04719AT

Mode : 5190 Band edge
: 5G Wi-Fi 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 pp 5147.067	10.13	32.39	30.84	36.24	47.92	54.00	-6.08	Average
2 5149.980	10.14	32.40	30.84	36.22	47.92	54.00	-6.08	Average
3 5190.000	10.29	32.48	30.82	84.52	96.47	-----	-----	Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5230 Band edge

: 5G Wi-Fi 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 pp	5230.000	10.31	32.56	30.81	95.57	107.63	68.20	39.43	peak
2	5350.020	10.45	32.80	30.76	45.87	58.36	74.00	-15.64	peak
3	5356.428	10.47	32.80	30.76	46.97	59.48	74.00	-14.52	peak



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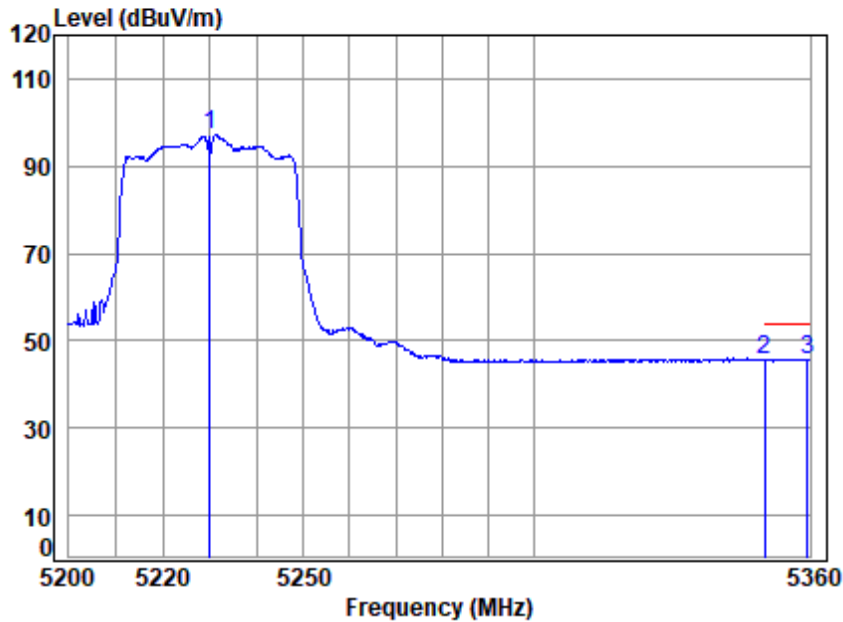
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 106 of 314

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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5230 Band edge

: 5G Wi-Fi 11ac40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	10.31	32.56	30.81	85.34	97.40	-----	-----	Average
2	5350.020	10.45	32.80	30.76	33.03	45.52	54.00	-8.48	Average
3	pp 5359.513	10.48	32.80	30.76	33.31	45.83	54.00	-8.17	Average



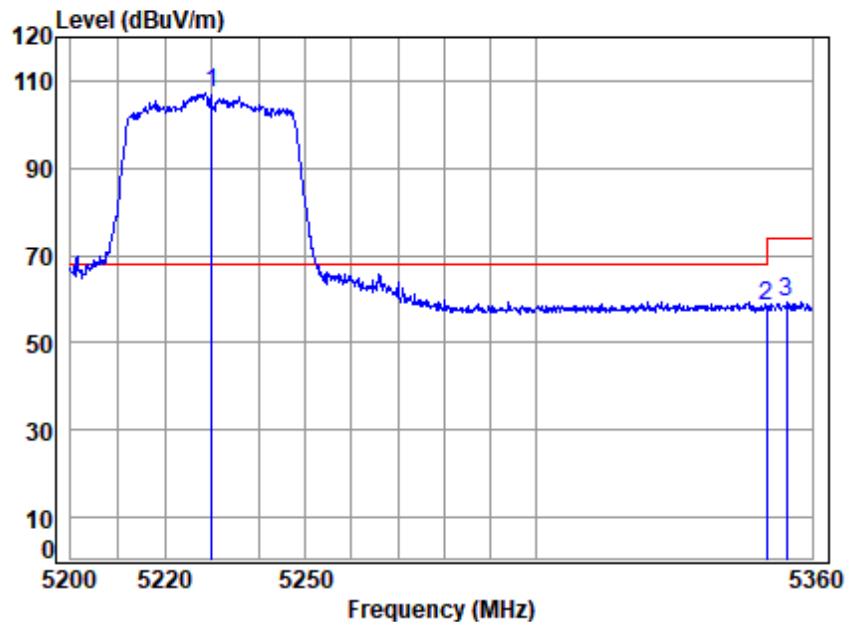
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

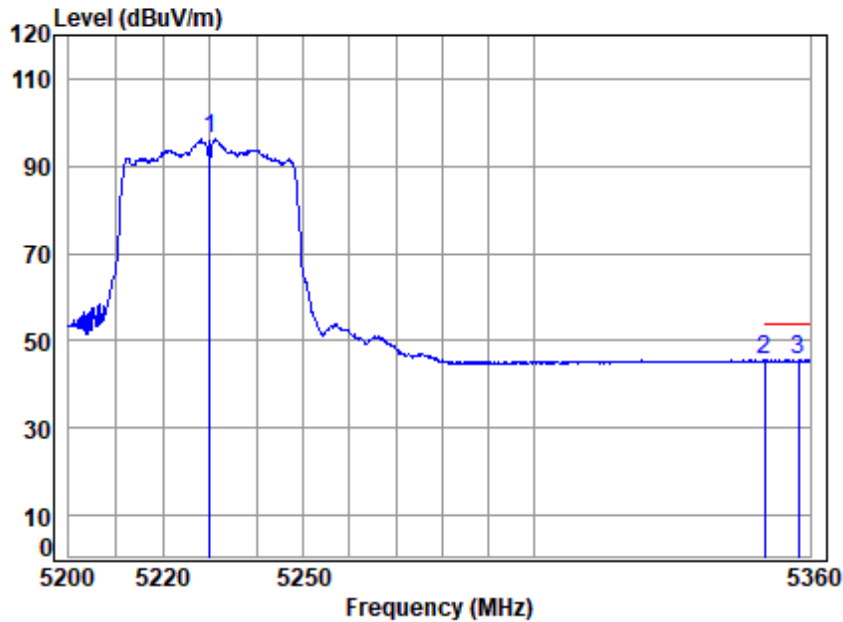
Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 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 pp	5230.000	10.31	32.56	30.81	94.98	107.04	68.20	38.84	Peak
2	5350.020	10.45	32.80	30.76	46.05	58.54	74.00	-15.46	Peak
3	5354.480	10.47	32.80	30.76	46.96	59.47	74.00	-14.53	Peak



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



Condition: 3m VERTICAL

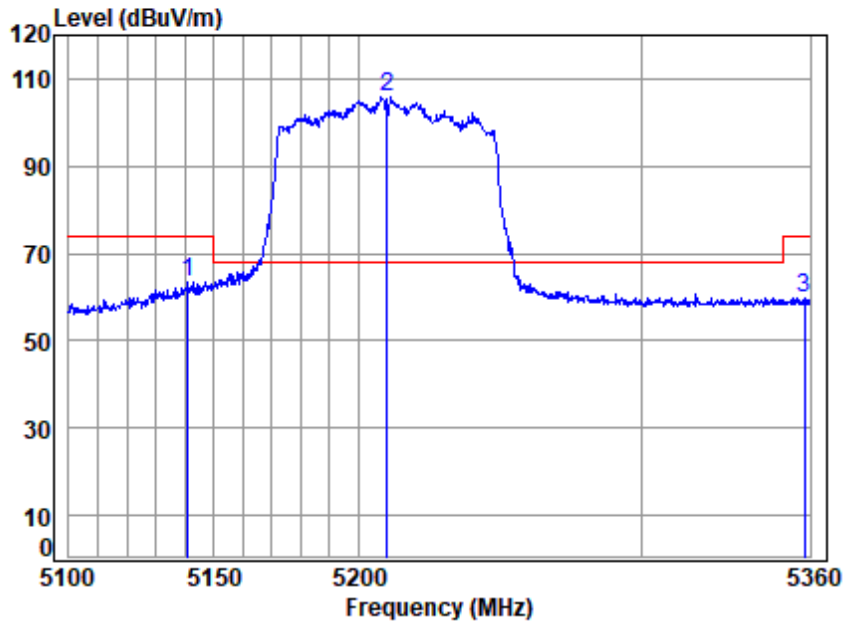
Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 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	5230.000	10.31	32.56	30.81	84.16	96.22	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.92	45.41	54.00	-8.59	Average
3 pp	5357.564	10.48	32.80	30.76	33.00	45.52	54.00	-8.48	Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5210 Band edge
: 5G Wi-Fi 11ac80

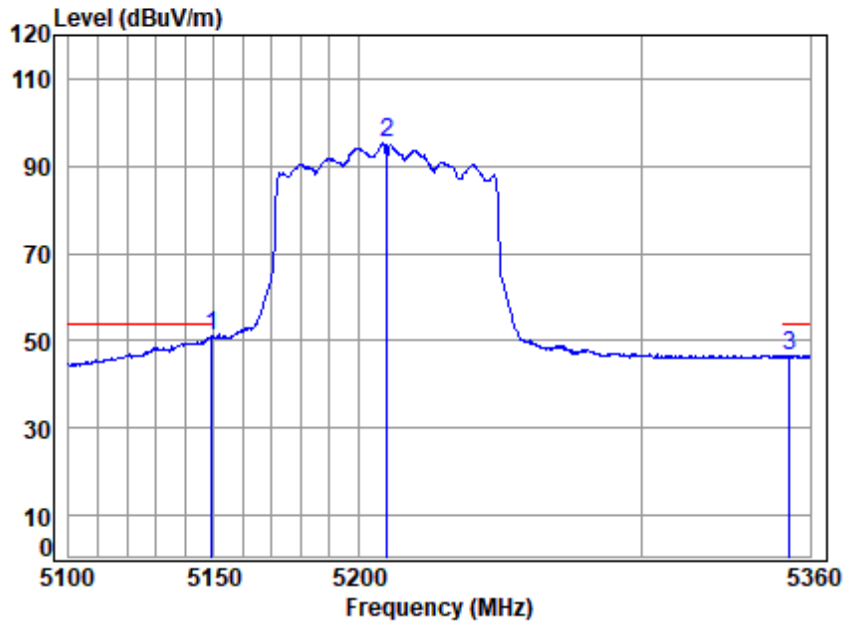
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5140.992	10.11	32.38	30.84	51.96	63.61	74.00	-10.39	peak
2 pp	5210.000	10.32	32.52	30.82	93.92	105.94	68.20	37.74	peak
3	5357.868	10.48	32.80	30.76	47.38	59.90	74.00	-14.10	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5210 Band edge
: 5G Wi-Fi 11ac80

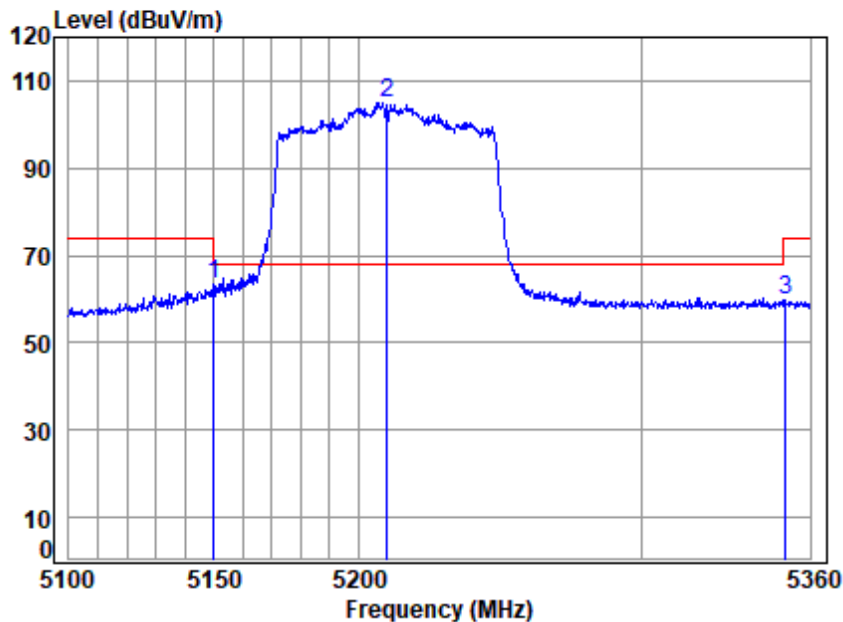
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.178	10.14	32.40	30.84	39.54	51.24	54.00	-2.76	Average
2	5210.000	10.32	32.52	30.82	83.18	95.20	-----	-----	Average
3	5352.542	10.46	32.80	30.76	34.08	46.58	54.00	-7.42	Average



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5210 Band edge
: 5G Wi-Fi 11ac80

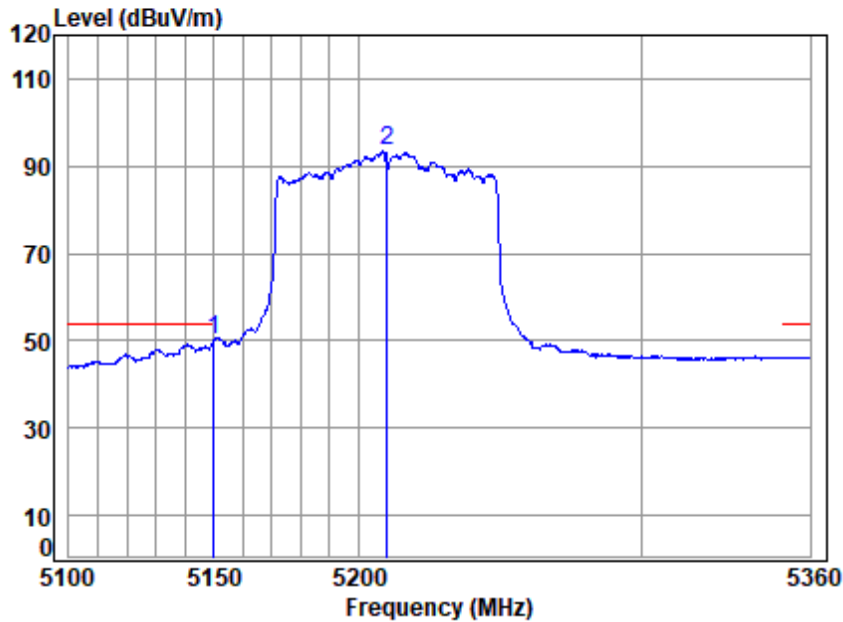
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.690	10.14	32.40	30.84	51.61	63.31	74.00	-10.69	Peak
2 pp	5210.000	10.32	32.52	30.82	93.03	105.05	68.20	36.85	Peak
3	5351.212	10.45	32.80	30.76	47.25	59.74	74.00	-14.26	Peak



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



Condition: 3m VERTICAL

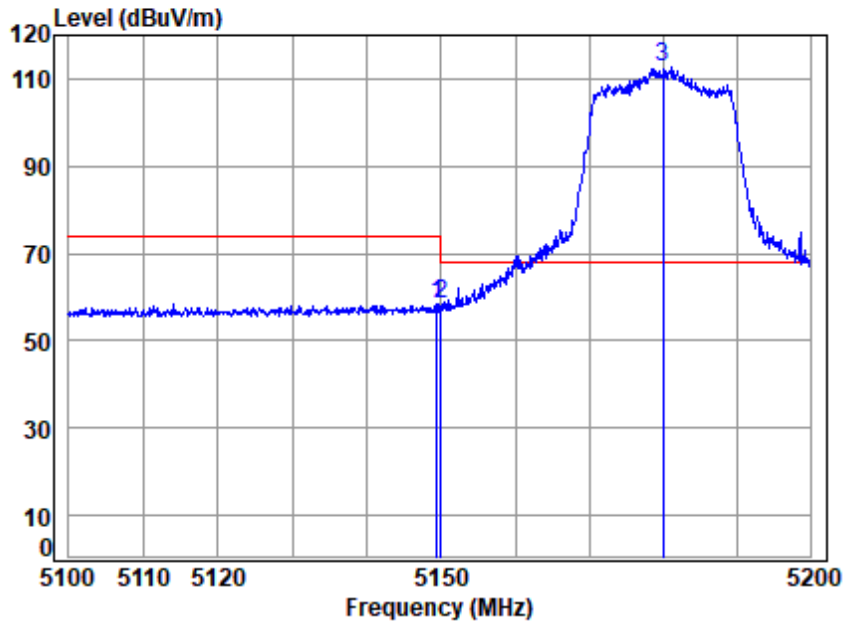
Job No : 04719AT

Mode : 5210 Band edge
: 5G Wi-Fi 11ac80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.947	10.14	32.40	30.84	38.33	50.03	54.00	-3.97	Average
2	5210.000	10.32	32.52	30.82	81.39	93.41	-----	-----	Average
3	5360.000	10.48	32.80	30.76	33.86	46.38	54.00	-7.62	Average



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5149.458	10.14	32.40	30.84	46.51	58.21	74.00	-15.79	peak
2 5149.980	10.14	32.40	30.84	46.80	58.50	74.00	-15.50	peak
3 pp 5180.000	10.25	32.46	30.83	100.63	112.51	68.20	44.31	peak



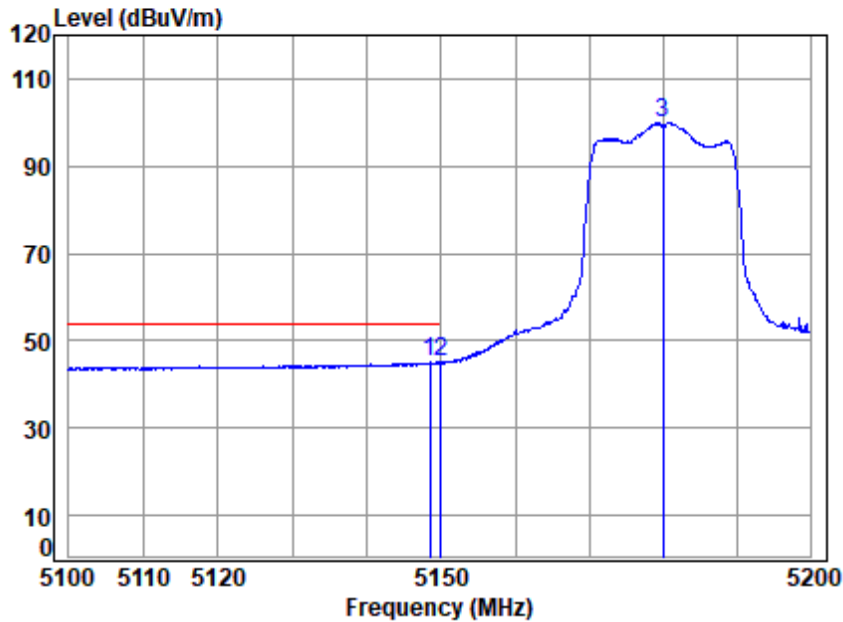
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Report No.: SZCR241200471906

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.458	10.13	32.40	30.84	33.32	45.01	54.00	-8.99 Average
2 pp	5149.980	10.14	32.40	30.84	33.35	45.05	54.00	-8.95 Average
3	5180.000	10.25	32.46	30.83	88.12	100.00	-----	----- Average



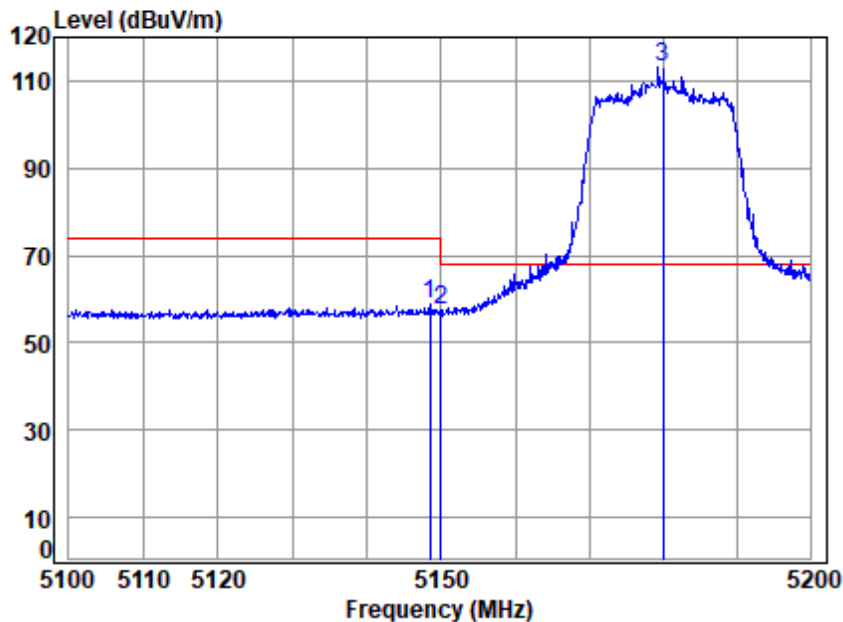
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11ax20

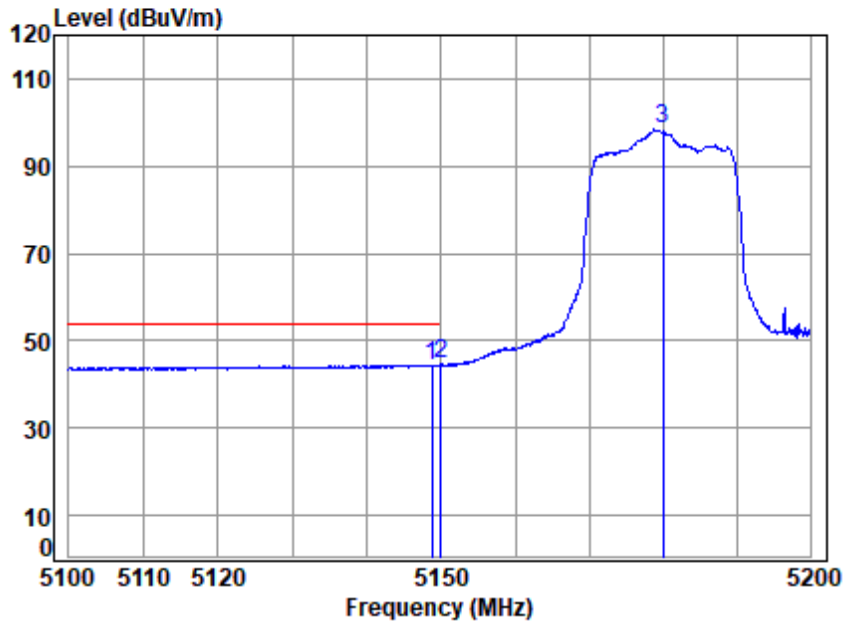
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5148.458	10.13	32.40	30.84	46.98	58.67	74.00	-15.33	Peak
5149.980	10.14	32.40	30.84	45.82	57.52	74.00	-16.48	Peak
5180.000	10.25	32.46	30.83	101.25	113.13	68.20	44.93	Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5180 Band edge
: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.757	10.14	32.40	30.84	32.78	44.48	54.00	-9.52	Average
2 pp	5149.980	10.14	32.40	30.84	32.87	44.57	54.00	-9.43	Average
3	5180.000	10.25	32.46	30.83	86.48	98.36	-----	-----	Average



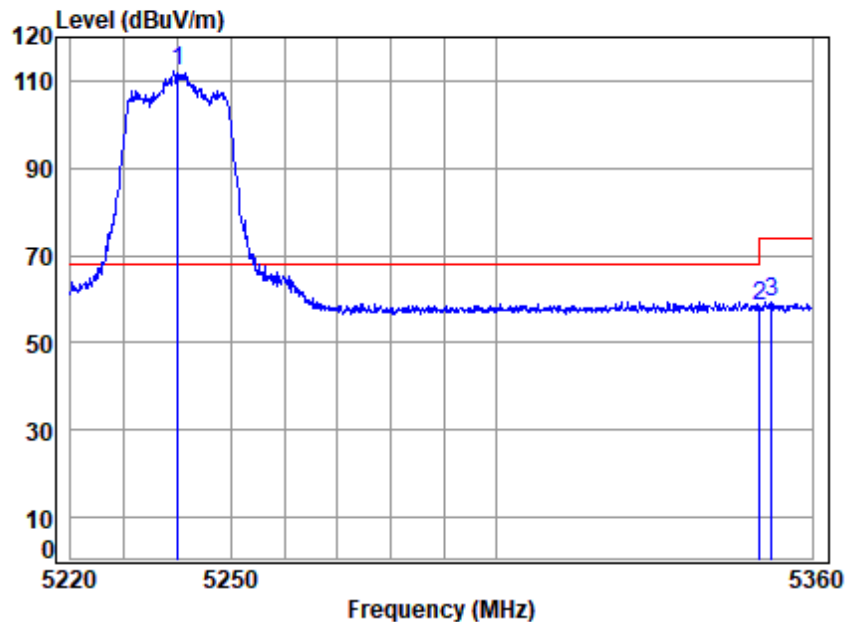
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Report No.: SZCR241200471906

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5240 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	100.24	112.33	68.20	44.13	peak
2	5350.020	10.45	32.80	30.76	45.80	58.29	74.00	-15.71	peak
3	5352.203	10.46	32.80	30.76	46.87	59.37	74.00	-14.63	peak



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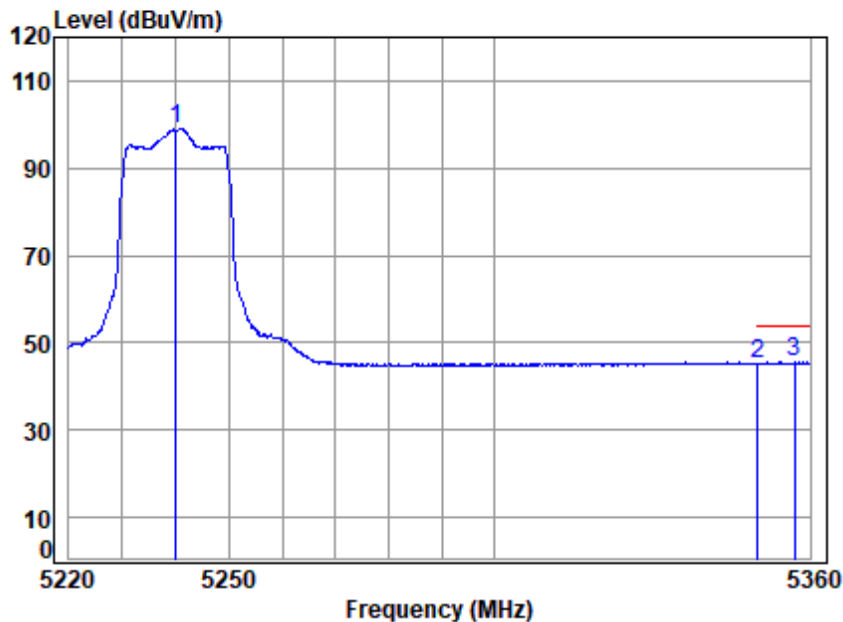
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 118 of 314

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11ax20

		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	5240.000	10.31	32.58	30.80	87.13	99.22	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.86	45.35	54.00	-8.65	Average
3 pp	5357.022	10.47	32.80	30.76	33.06	45.57	54.00	-8.43	Average



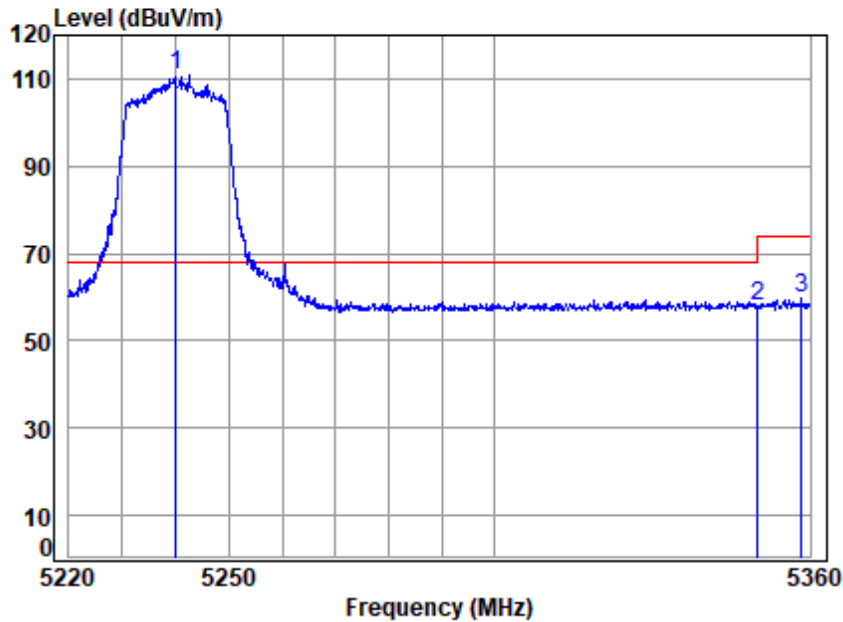
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	10.31	32.58	30.80	98.80	110.89	68.20	42.69	Peak
2	5350.020	10.45	32.80	30.76	45.62	58.11	74.00	-15.89	Peak
3	5358.298	10.48	32.80	30.76	47.06	59.58	74.00	-14.42	Peak



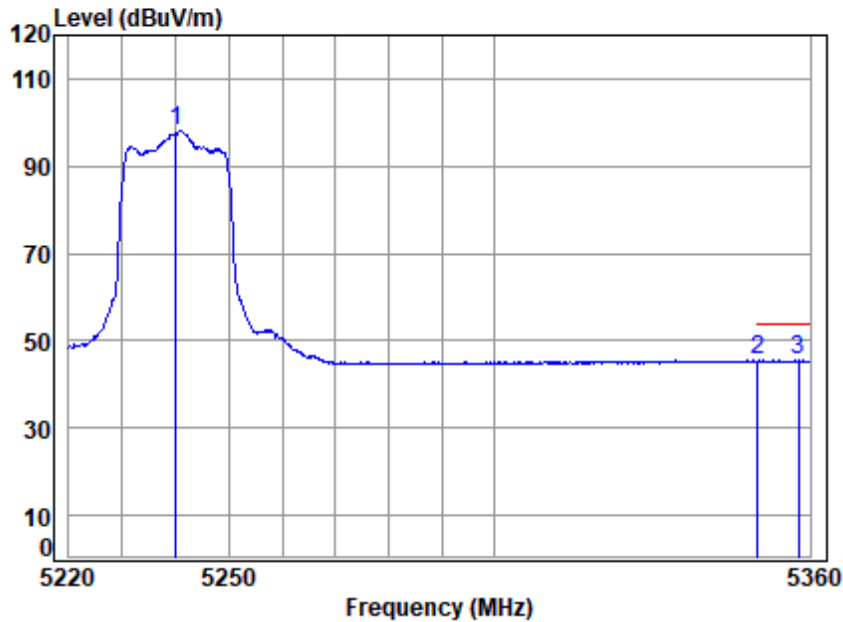
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 120 of 314

Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5240 Band edge
: 5G Wi-Fi 11ax20

	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 5240.000	10.31	32.58	30.80	86.14	98.23	-----	----- Average
2 5350.020	10.45	32.80	30.76	33.01	45.50	54.00	-8.50 Average
3 pp 5357.730	10.48	32.80	30.76	33.08	45.60	54.00	-8.40 Average



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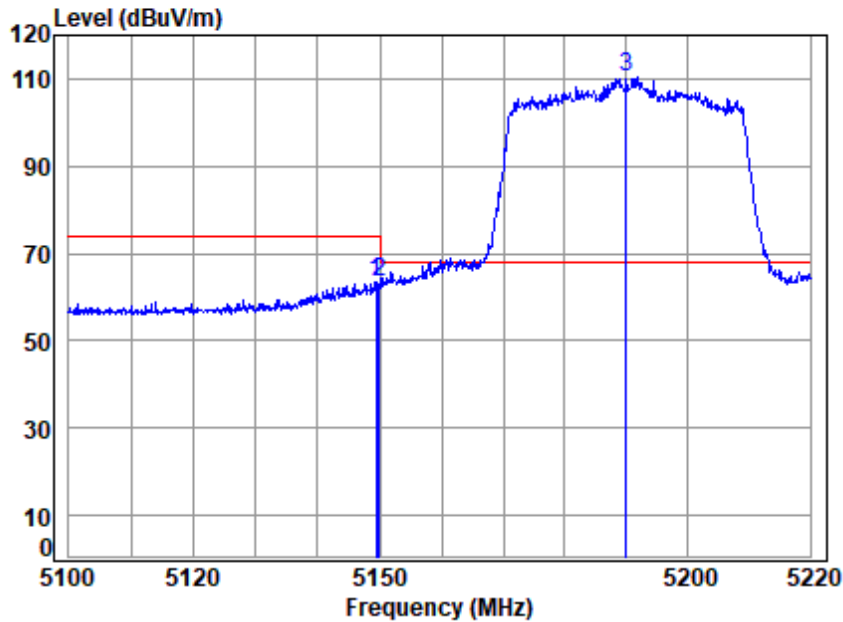
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	10.14	32.40	30.84	51.89	63.59	74.00	-10.41	peak
2	5149.980	10.14	32.40	30.84	51.55	63.25	74.00	-10.75	peak
3	pp 5190.000	10.29	32.48	30.82	98.66	110.61	68.20	42.41	peak



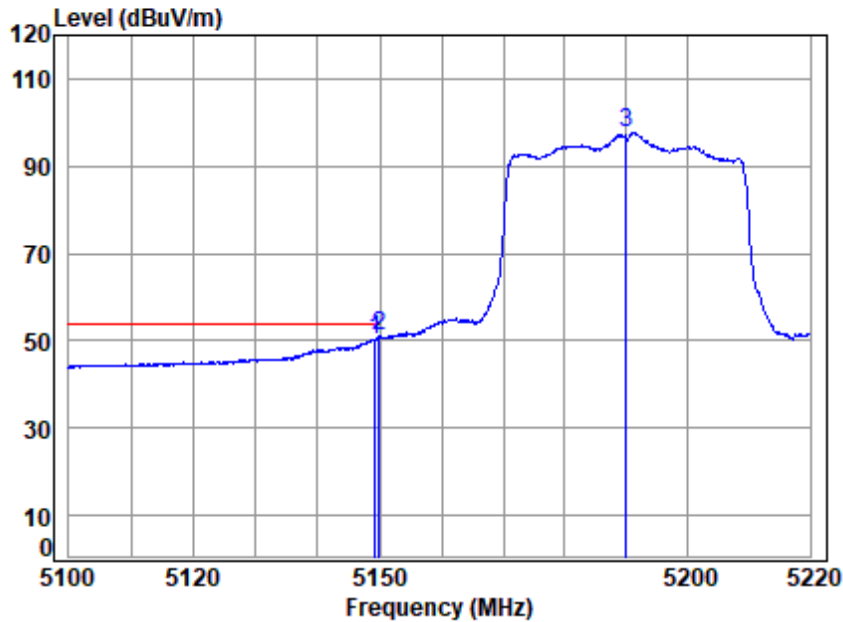
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

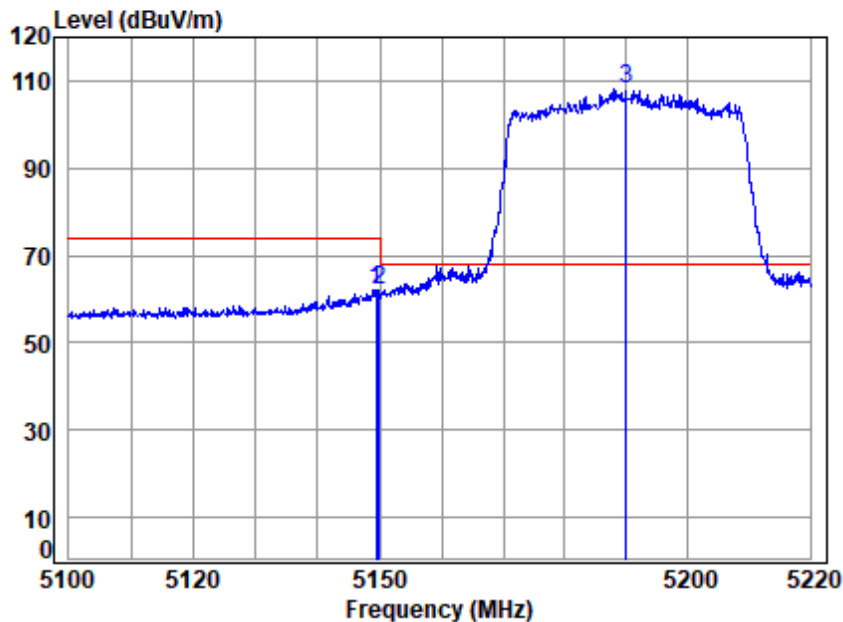
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.222	10.14	32.40	30.84	38.70	50.40	54.00	-3.60 Average
2 pp	5149.980	10.14	32.40	30.84	39.23	50.93	54.00	-3.07 Average
3	5190.000	10.29	32.48	30.82	85.55	97.50	-----	----- Average



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

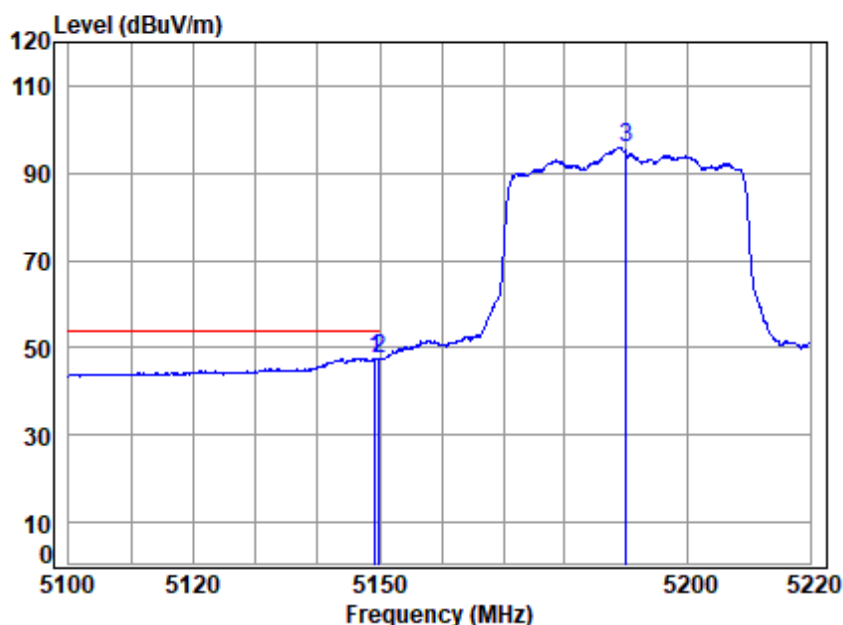
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	10.14	32.40	30.84	50.45	62.15	74.00	-11.85 Peak
2	5149.980	10.14	32.40	30.84	50.50	62.20	74.00	-11.80 Peak
3 pp	5190.000	10.29	32.48	30.82	96.21	108.16	68.20	39.96 Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5149.342	10.14	32.40	30.84	35.90	47.60	54.00	-6.40	Average
2 5149.980	10.14	32.40	30.84	35.83	47.53	54.00	-6.47	Average
3 5190.000	10.29	32.48	30.82	84.03	95.98	-----	-----	Average



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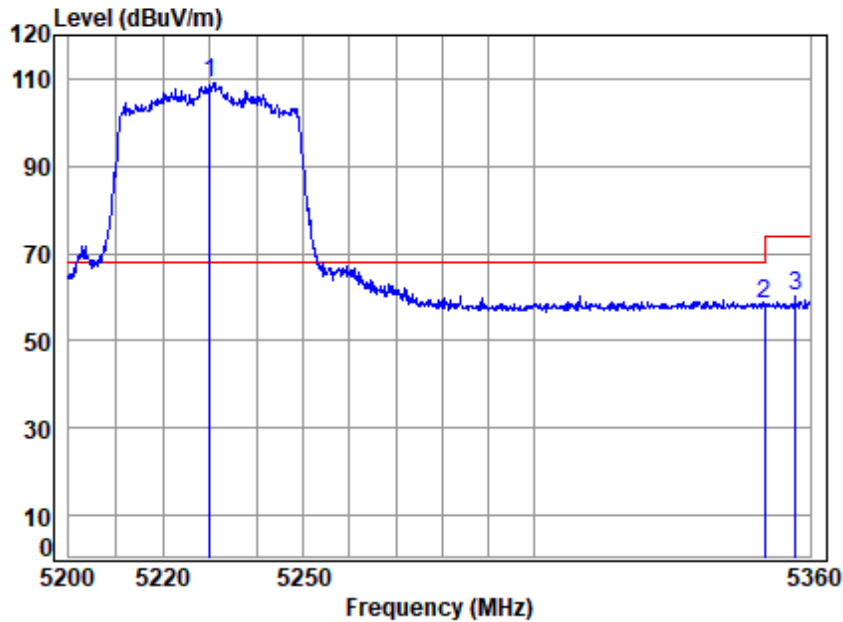
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	10.31	32.56	30.81	97.20	109.26	68.20	41.06	peak
2	5350.020	10.45	32.80	30.76	46.04	58.53	74.00	-15.47	peak
3	5356.752	10.47	32.80	30.76	47.55	60.06	74.00	-13.94	peak



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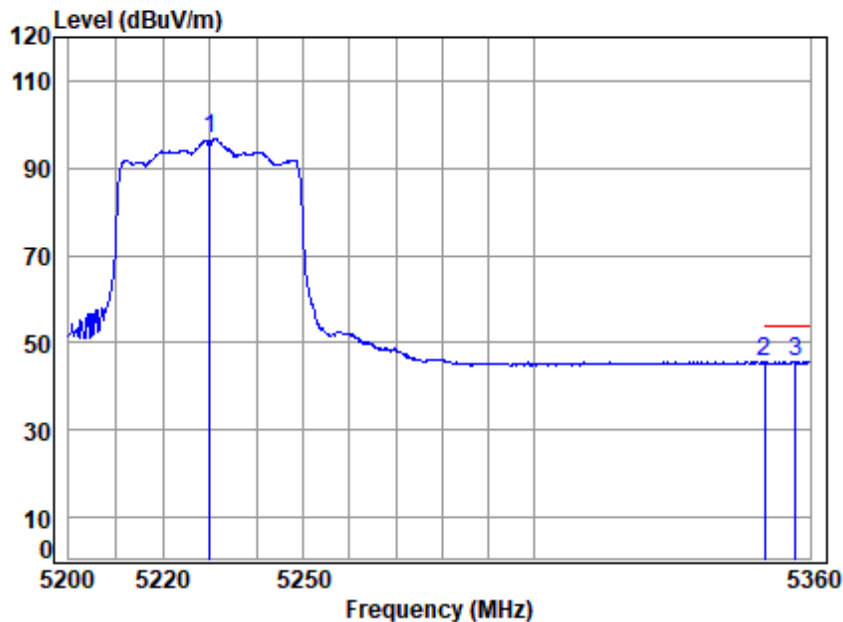
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5230 Band edge

: 5G Wi-Fi 11ax40

		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	5230.000	10.31	32.56	30.81	84.66	96.72	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.94	45.43	54.00	-8.57	Average
3 pp	5356.915	10.47	32.80	30.76	33.12	45.63	54.00	-8.37	Average



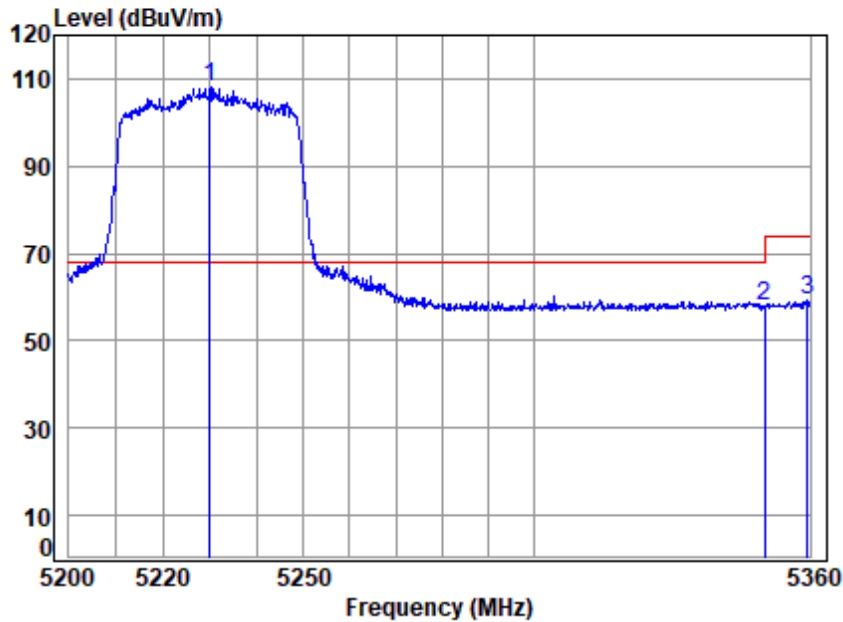
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	10.31	32.56	30.81	95.99	108.05	68.20	39.85	Peak
2	5350.020	10.45	32.80	30.76	45.45	57.94	74.00	-16.06	Peak
3	5359.350	10.48	32.80	30.76	46.85	59.37	74.00	-14.63	Peak



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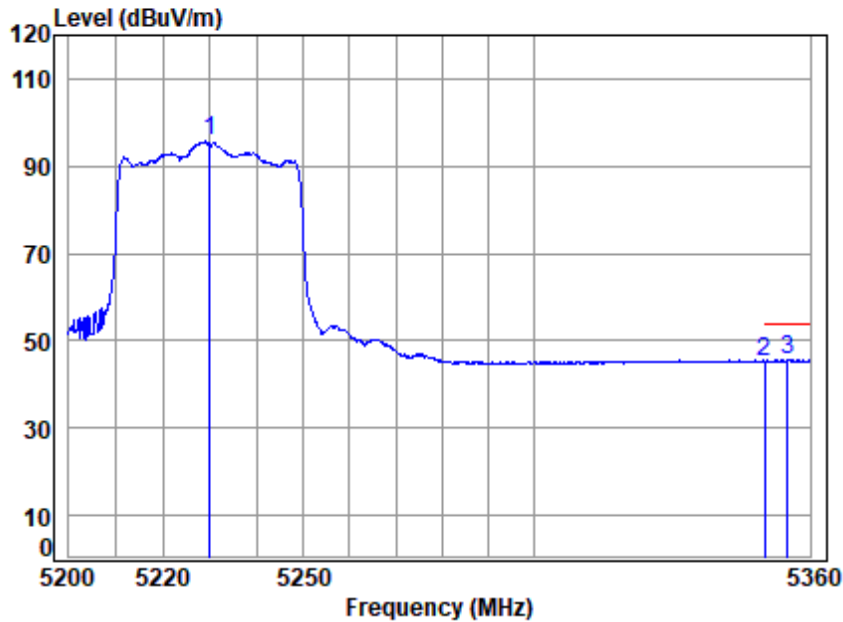
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5230 Band edge
: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	10.31	32.56	30.81	83.72	95.78	-----	-----	Average
2	5350.020	10.45	32.80	30.76	32.81	45.30	54.00	-8.70	Average
3	pp 5355.129	10.47	32.80	30.76	33.11	45.62	54.00	-8.38	Average



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Shenzhen Branch Testing & Calibration Laboratory

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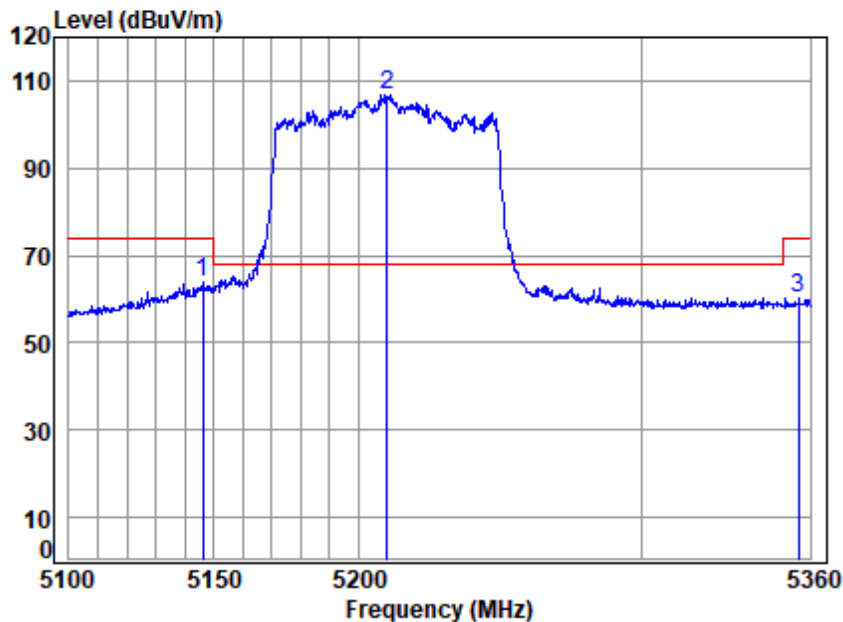
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 129 of 314

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5210 Band edge
: 5G Wi-Fi 11ax80

		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	5146.107	10.13	32.39	30.84	52.33	64.01	74.00	-9.99	peak
2 pp	5210.000	10.32	32.52	30.82	94.77	106.79	68.20	38.59	peak
3	5356.004	10.47	32.80	30.76	47.84	60.35	74.00	-13.65	peak



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Shenzhen Branch Inspection & Testing Laboratory

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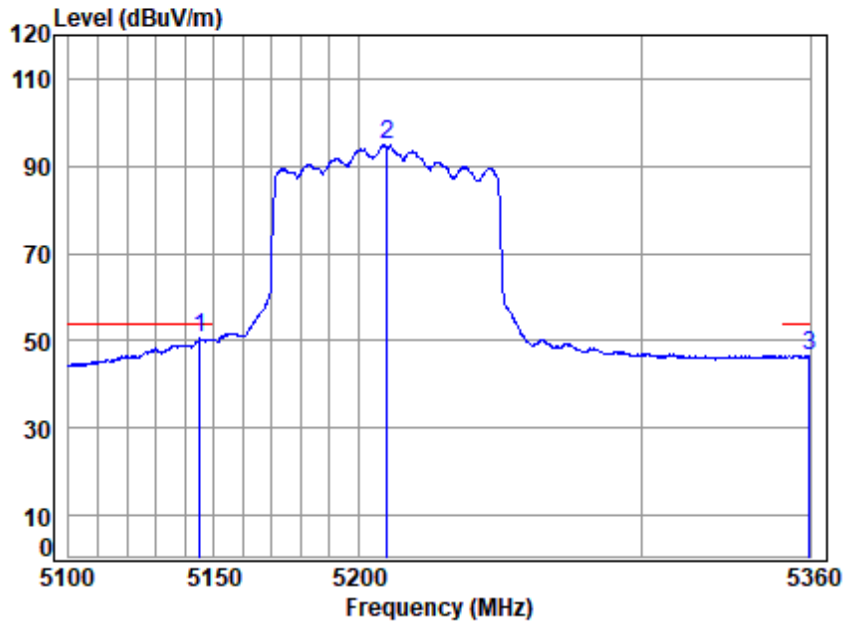
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 130 of 314

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5210 Band edge

: 5G Wi-Fi 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5145.083	10.12	32.39	30.84	38.91	50.58	54.00	-3.42	Average
2	5210.000	10.32	32.52	30.82	82.87	94.89	-----	-----	Average
3	5359.733	10.48	32.80	30.76	34.03	46.55	54.00	-7.45	Average



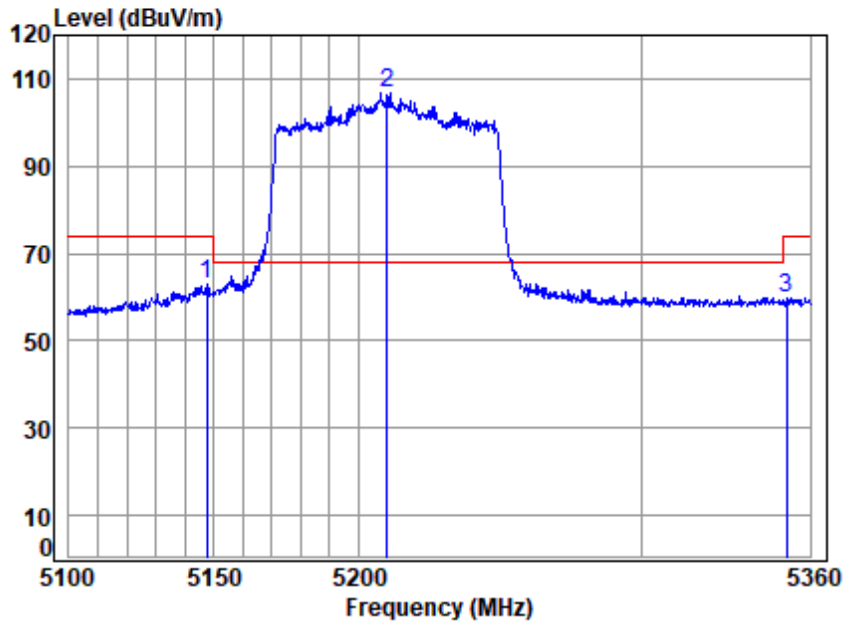
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

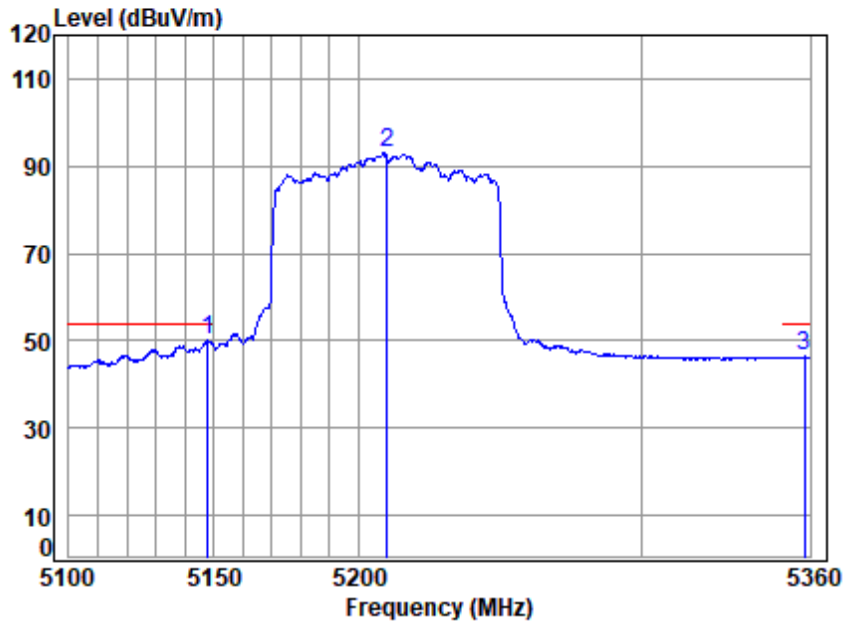
Job No : 04719AT

Mode : 5210 Band edge
: 5G Wi-Fi 11ax80

		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	5147.386	10.13	32.39	30.84	51.19	62.87	74.00	-11.13	Peak
2 pp	5210.000	10.32	32.52	30.82	94.68	106.70	68.20	38.50	Peak
3	5351.478	10.46	32.80	30.76	47.50	60.00	74.00	-14.00	Peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5210 Band edge
: 5G Wi-Fi 11ax80

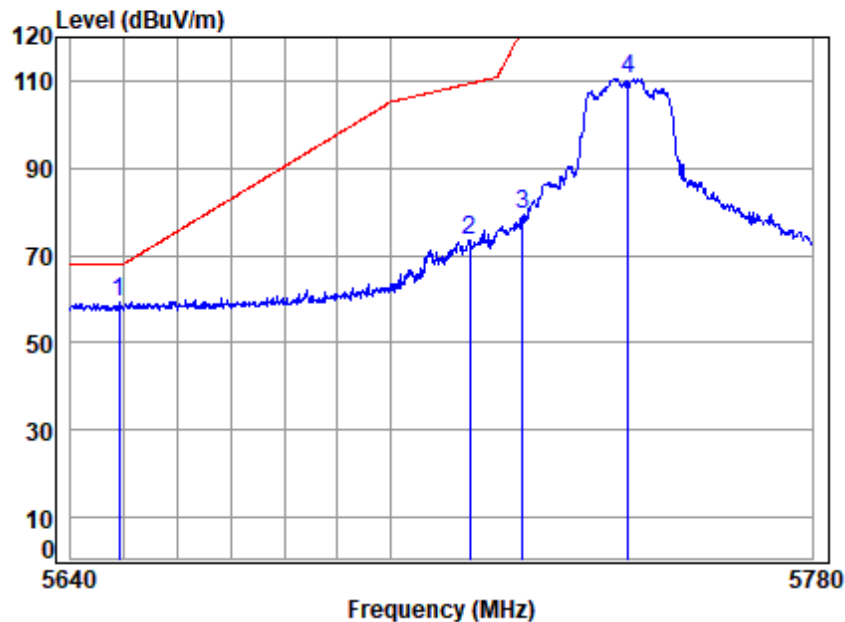
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5147.643	10.13	32.40	30.84	38.27	49.96	54.00	-4.04	Average
2	5210.000	10.32	32.52	30.82	81.07	93.09	-----	-----	Average
3	5357.868	10.48	32.80	30.76	33.83	46.35	54.00	-7.65	Average



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5745 Band edge
: 5.8G Wi-Fi 11a

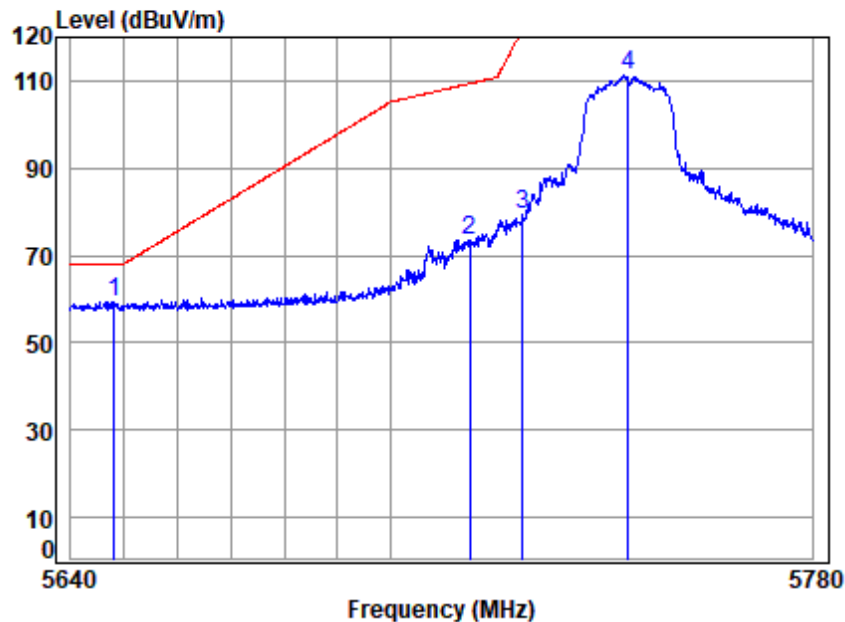
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5648.996	10.48	33.10	30.64	46.47	59.41	68.20	-8.79 peak
2	5715.000	10.63	33.23	30.61	60.00	73.25	109.40	-36.15 peak
3	5725.000	10.68	33.25	30.61	66.29	79.61	122.20	-42.59 peak
4	5745.000	10.77	33.29	30.60	97.07	110.53	-----	----- peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5745 Band edge
: 5.8G Wi-Fi 11a

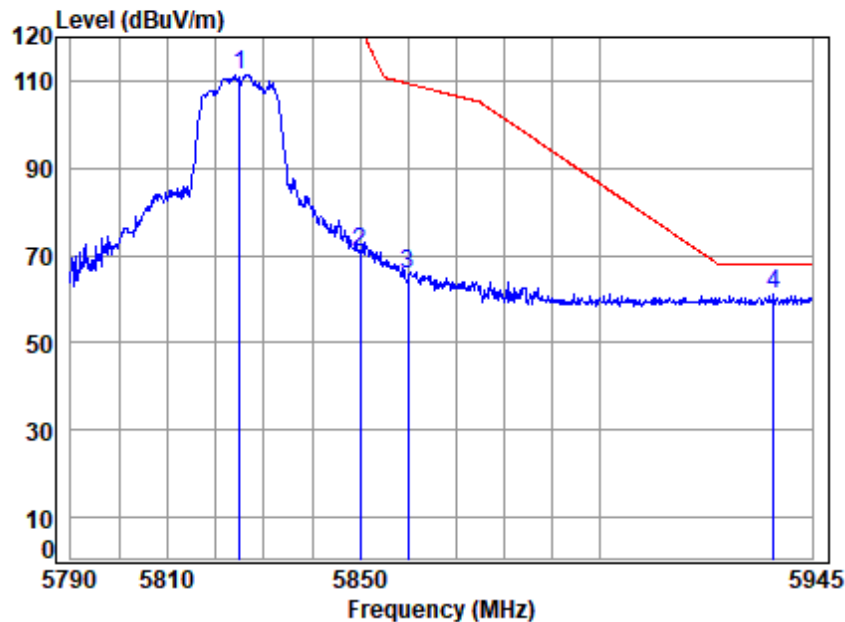
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5648.026	10.48	33.10	30.64	46.54	59.48	68.20	-8.72 peak
2	5715.000	10.63	33.23	30.61	60.42	73.67	109.40	-35.73 peak
3	5725.000	10.68	33.25	30.61	66.06	79.38	122.20	-42.82 peak
4	5745.000	10.77	33.29	30.60	97.88	111.34	-----	----- peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5825 Band edge
: 5.8G Wi-Fi 11a

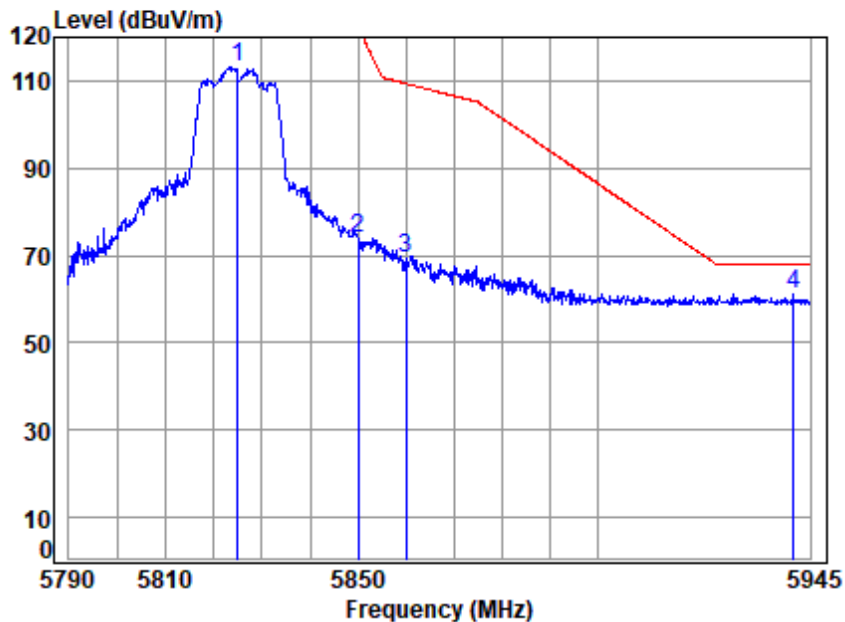
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	97.63	111.55	-----	----- peak
2 5850.000	10.95	33.60	30.56	56.79	70.78	122.20	-51.42 peak
3 5860.000	10.94	33.58	30.56	51.71	65.67	109.40	-43.73 peak
4 pp 5936.839	10.86	33.57	30.53	47.26	61.16	68.20	-7.04 peak



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



Condition: 3m VERTICAL

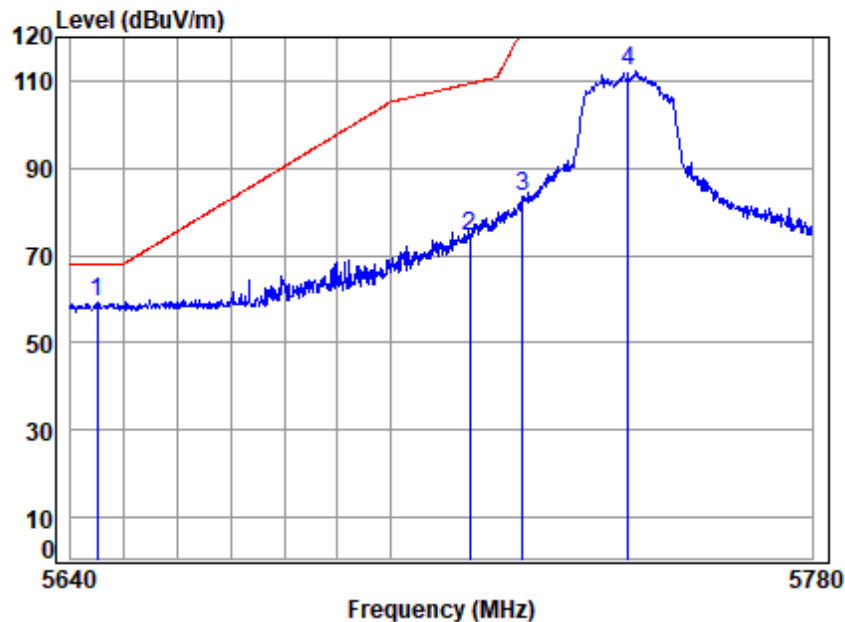
Job No : 04719AT

Mode : 5825 Band edge
: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	99.27	113.19	-----	----- peak
2 5850.000	10.95	33.60	30.56	60.08	74.07	122.20	-48.13 peak
3 5860.000	10.94	33.58	30.56	55.34	69.30	109.40	-40.10 peak
4 pp 5941.546	10.86	33.58	30.52	47.43	61.35	68.20	-6.85 peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5745 Band edge

: 5.8G Wi-Fi 11n20

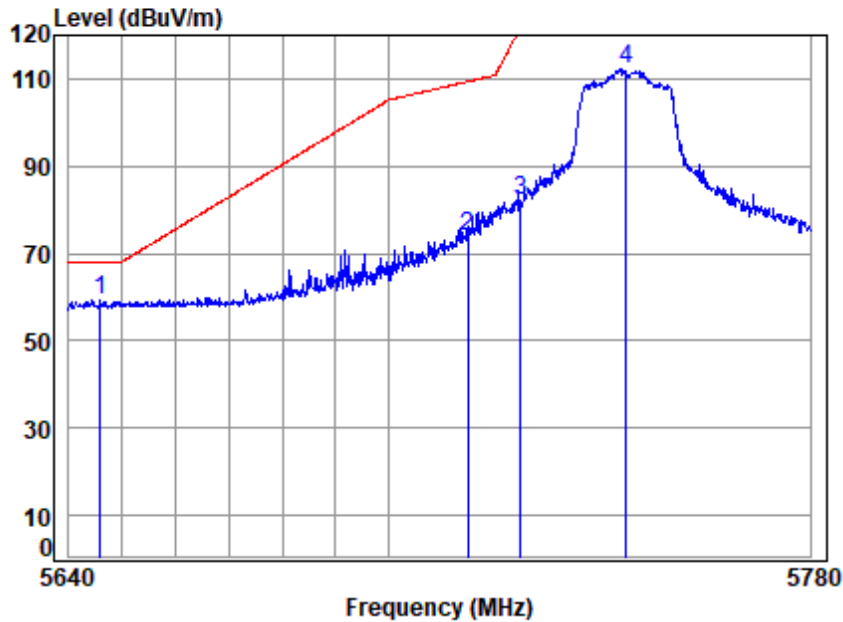
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5644.980	10.48	33.09	30.64	46.43	59.36	68.20	-8.84 peak
2	5715.000	10.63	33.23	30.61	61.09	74.34	109.40	-35.06 peak
3	5725.000	10.68	33.25	30.61	70.23	83.55	122.20	-38.65 peak
4	5745.000	10.77	33.29	30.60	98.61	112.07	-----	----- peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5745 Band edge

: 5.8G Wi-Fi 11n20

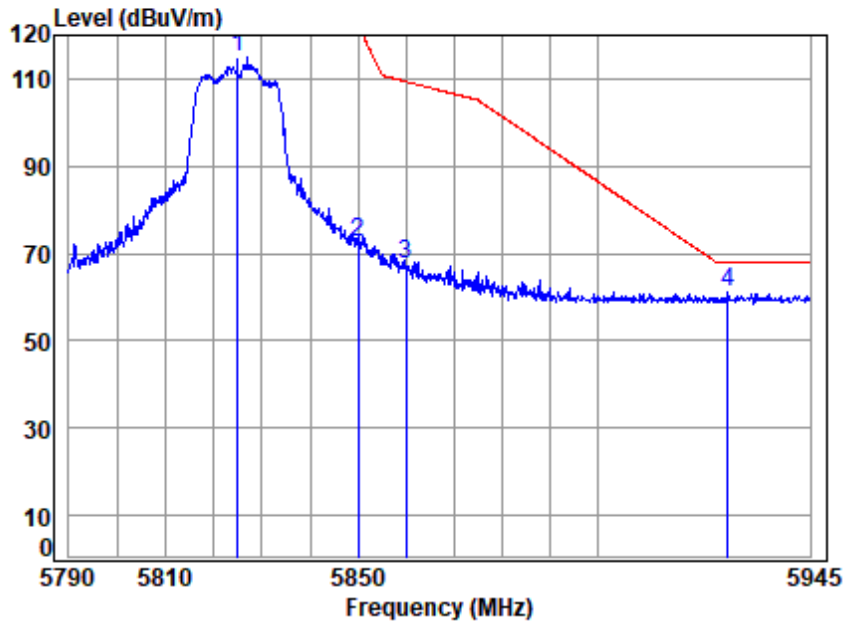
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5645.950	10.48	33.09	30.64	46.42	59.35	68.20	-8.85 peak
2	5715.000	10.63	33.23	30.61	60.71	73.96	109.40	-35.44 peak
3	5725.000	10.68	33.25	30.61	68.66	81.98	122.20	-40.22 peak
4	5745.000	10.77	33.29	30.60	98.79	112.25	-----	----- peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5825 Band edge

: 5.8G Wi-Fi 11n20

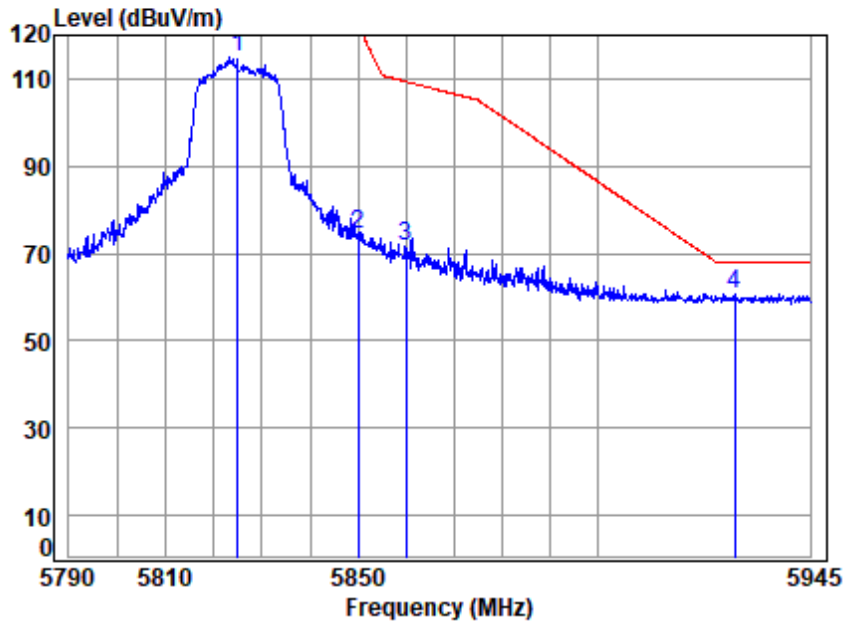
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	10.99	33.50	30.57	100.92	114.84	-----	-----	peak
2 5850.000	10.95	33.60	30.56	58.45	72.44	122.20	-49.76	peak
3 5860.000	10.94	33.58	30.56	53.51	67.47	109.40	-41.93	peak
4 pp 5927.592	10.87	33.56	30.53	47.13	61.03	68.20	-7.17	peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5825 Band edge

: 5.8G Wi-Fi 11n20

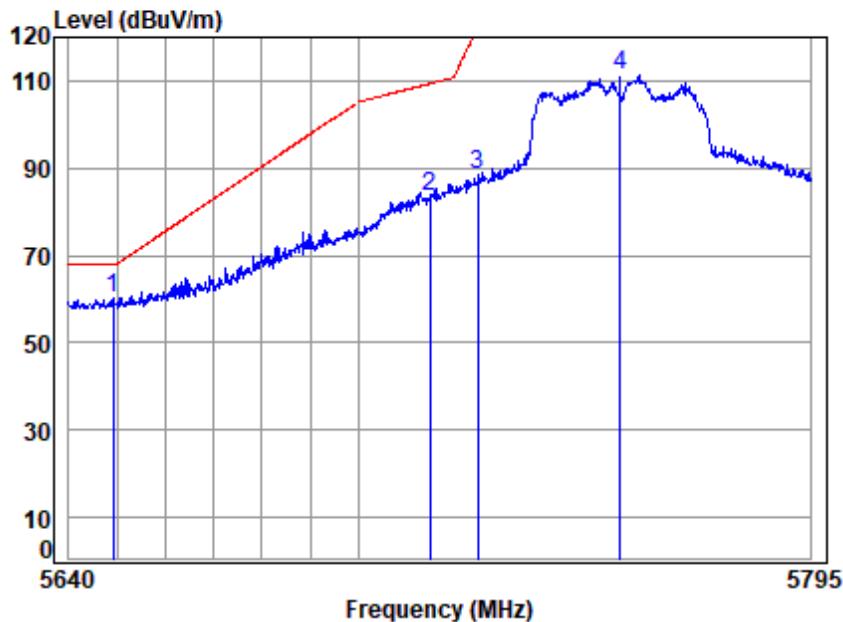
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	10.99	33.50	30.57	101.01	114.93	-----	-----	peak
2 5850.000	10.95	33.60	30.56	60.53	74.52	122.20	-47.68	peak
3 5860.000	10.94	33.58	30.56	57.87	71.83	109.40	-37.57	peak
4 pp 5929.002	10.87	33.56	30.53	46.87	60.77	68.20	-7.43	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5755 Band edge

: 5.8G Wi-Fi 11n40

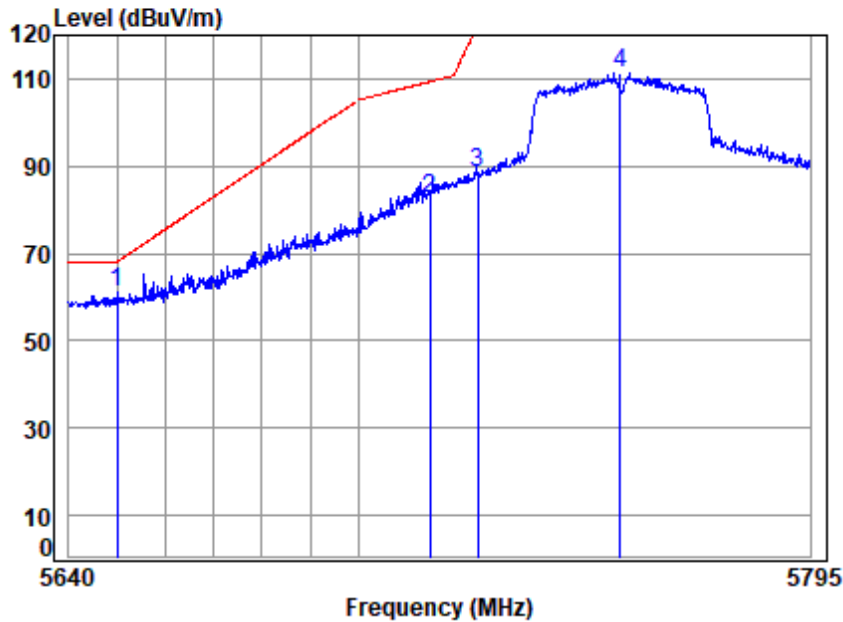
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5649.182	10.48	33.10	30.64	47.34	60.28	68.20	-7.92 peak
2	5715.000	10.63	33.23	30.61	70.41	83.66	109.40	-25.74 peak
3	5725.000	10.68	33.25	30.61	75.04	88.36	122.20	-33.84 peak
4	5755.000	10.81	33.31	30.60	97.60	111.12	-----	----- peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5755 Band edge

: 5.8G Wi-Fi 11n40

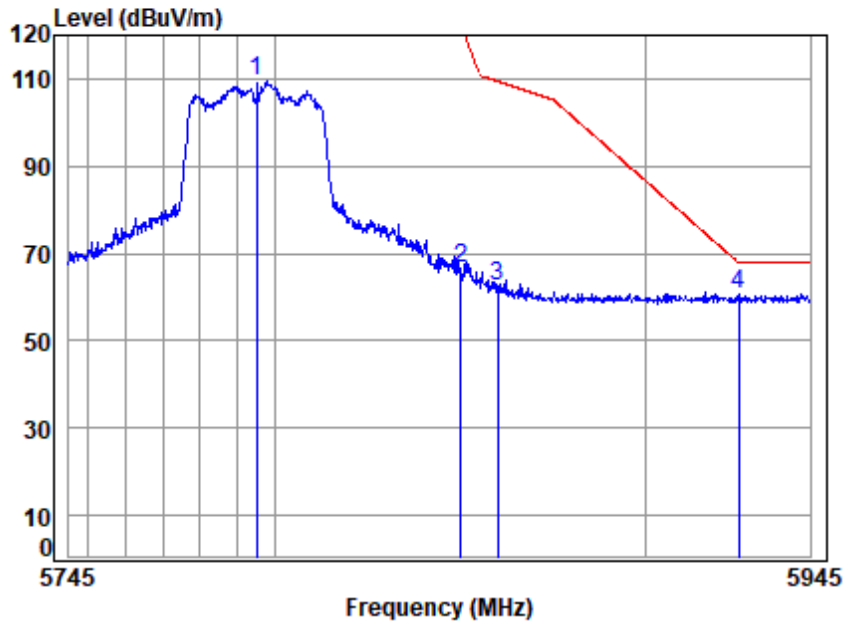
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5649.948	10.48	33.10	30.64	48.19	61.13	68.20	-7.07	peak
2	5715.000	10.63	33.23	30.61	69.47	82.72	109.40	-26.68	peak
3	5725.000	10.68	33.25	30.61	75.04	88.36	122.20	-33.84	peak
4	5755.000	10.81	33.31	30.60	97.82	111.34	-----	-----	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5795 Band edge

: 5.8G Wi-Fi 11n40

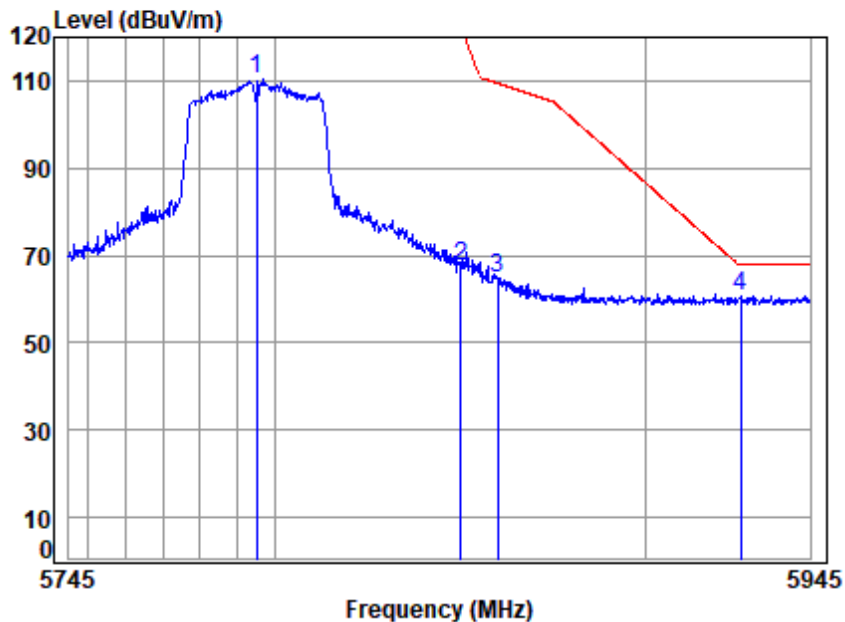
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	95.72	109.53	-----	-----	peak
2	5850.000	10.95	33.60	30.56	52.41	66.40	122.20	-55.80	peak
3	5860.000	10.94	33.58	30.56	48.72	62.68	109.40	-46.72	peak
4 pp	5925.501	10.87	33.55	30.53	47.02	60.91	68.20	-7.29	peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5795 Band edge

: 5.8G Wi-Fi 11n40

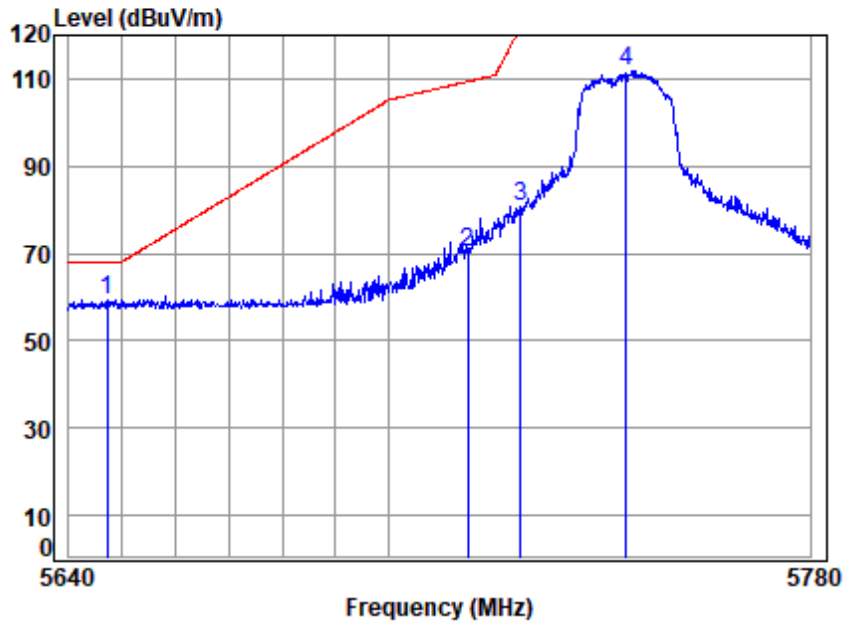
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	96.67	110.48	-----	-----	peak
2	5850.000	10.95	33.60	30.56	53.53	67.52	122.20	-54.68	peak
3	5860.000	10.94	33.58	30.56	50.72	64.68	109.40	-44.72	peak
4 pp	5926.110	10.87	33.55	30.53	46.82	60.71	68.20	-7.49	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ac20

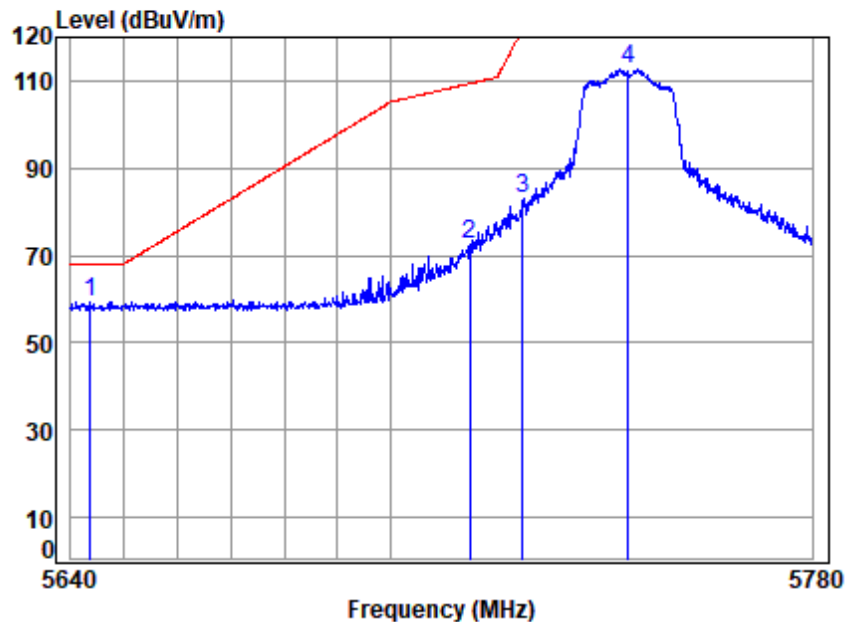
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5647.196	10.48	33.09	30.64	46.44	59.37	68.20	-8.83 peak
2	5715.000	10.63	33.23	30.61	57.22	70.47	109.40	-38.93 peak
3	5725.000	10.68	33.25	30.61	67.28	80.60	122.20	-41.60 peak
4	5745.000	10.77	33.29	30.60	98.44	111.90	-----	----- peak



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



Condition: 3m VERTICAL

Job No : 04719AT

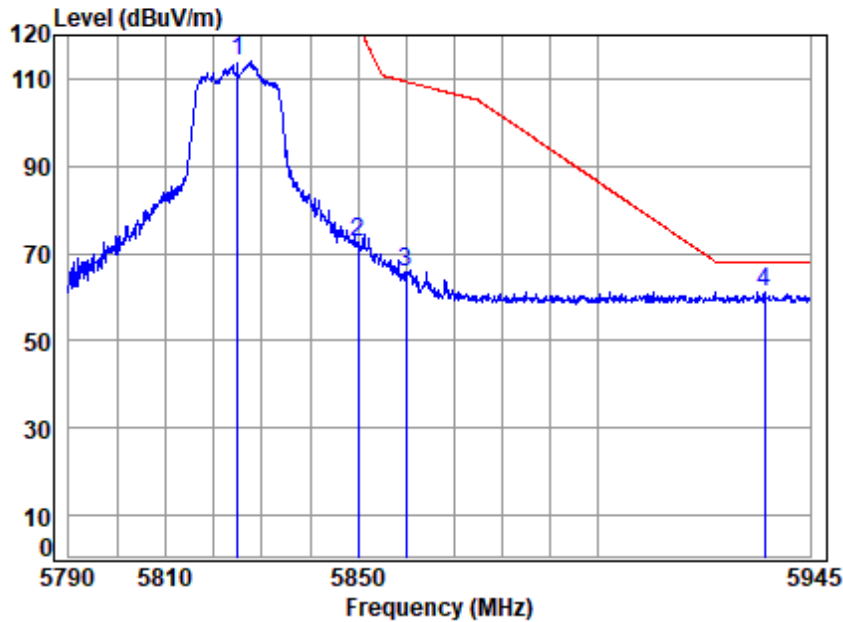
Mode : 5745 Band edge

: 5.8G Wi-Fi 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 pp	5643.735	10.48	33.09	30.64	46.60	59.53	68.20	-8.67	peak
2	5715.000	10.63	33.23	30.61	59.17	72.42	109.40	-36.98	peak
3	5725.000	10.68	33.25	30.61	69.81	83.13	122.20	-39.07	peak
4	5745.000	10.77	33.29	30.60	99.12	112.58	-----	-----	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ac20

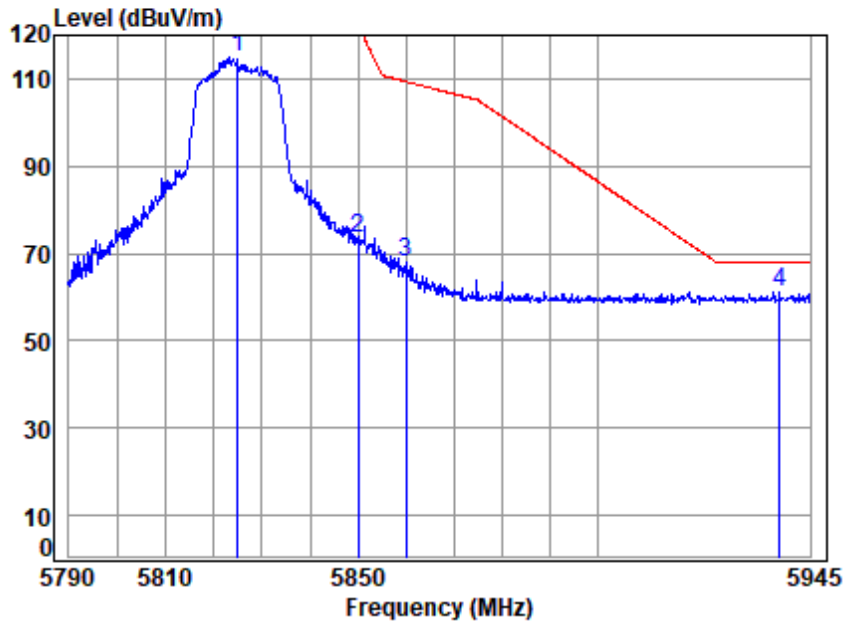
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	100.19	114.11	-----	----- peak
2 5850.000	10.95	33.60	30.56	58.58	72.57	122.20	-49.63 peak
3 5860.000	10.94	33.58	30.56	51.64	65.60	109.40	-43.80 peak
4 pp 5935.427	10.86	33.57	30.53	47.16	61.06	68.20	-7.14 peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ac20

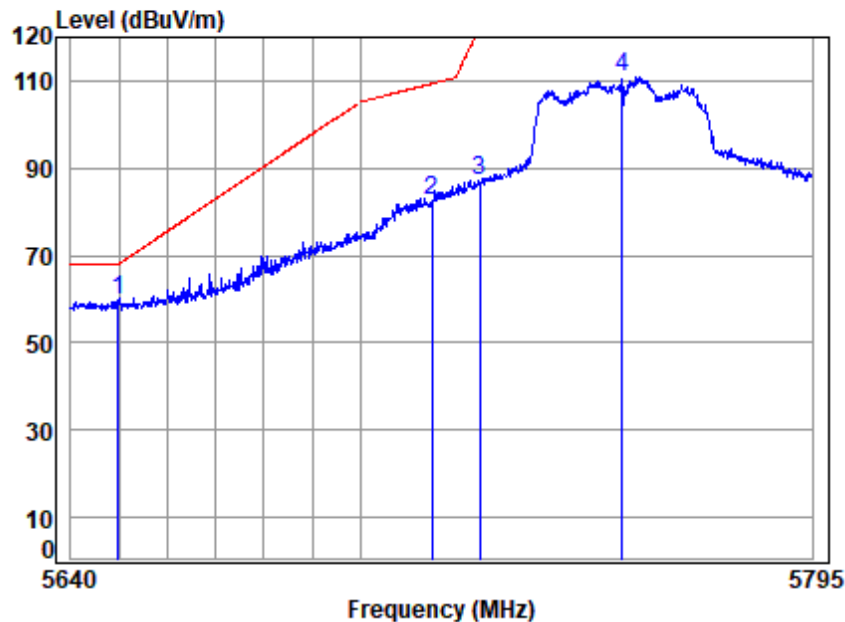
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	10.99	33.50	30.57	101.00	114.92	-----	-----	peak
2 5850.000	10.95	33.60	30.56	59.63	73.62	122.20	-48.58	peak
3 5860.000	10.94	33.58	30.56	53.92	67.88	109.40	-41.52	peak
4 pp 5938.564	10.86	33.58	30.52	47.14	61.06	68.20	-7.14	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5755 Band edge

: 5.8G Wi-Fi 11ac40

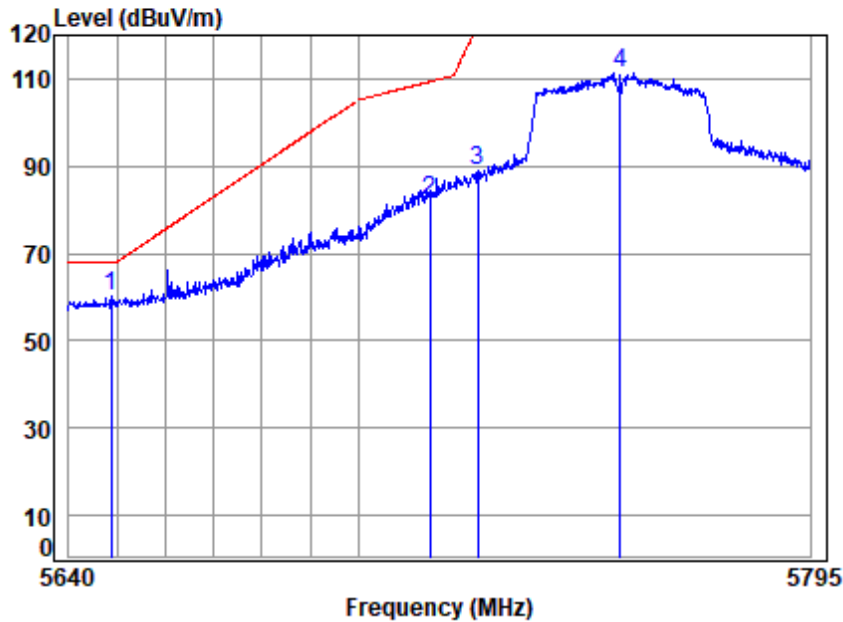
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5649.794	10.48	33.10	30.64	46.61	59.55	68.20	-8.65	peak
2	5715.000	10.63	33.23	30.61	69.14	82.39	109.40	-27.01	peak
3	5725.000	10.68	33.25	30.61	73.88	87.20	122.20	-35.00	peak
4	5755.000	10.81	33.31	30.60	97.36	110.88	-----	-----	peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5755 Band edge

: 5.8G Wi-Fi 11ac40

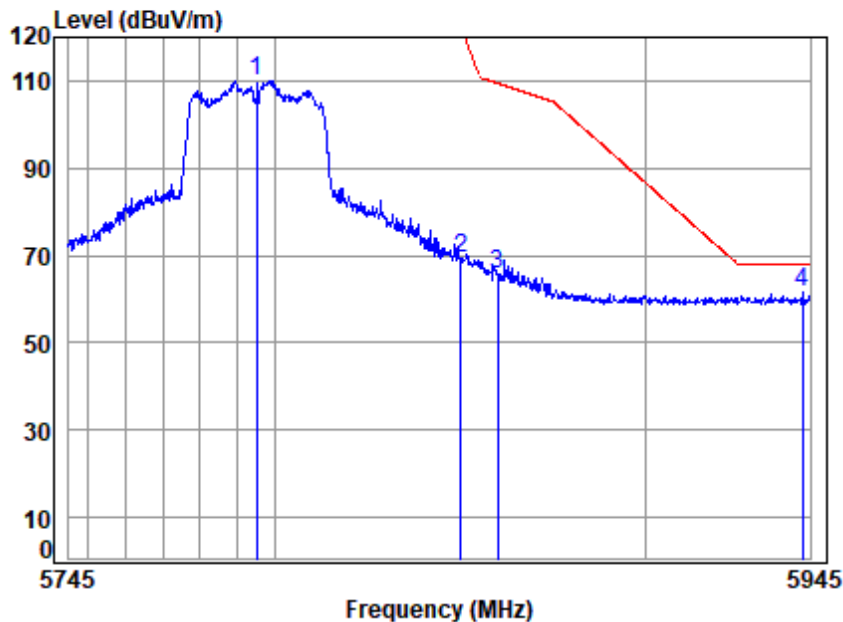
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5648.723	10.48	33.10	30.64	47.33	60.27	68.20	-7.93 peak
2	5715.000	10.63	33.23	30.61	68.79	82.04	109.40	-27.36 peak
3	5725.000	10.68	33.25	30.61	75.86	89.18	122.20	-33.02 peak
4	5755.000	10.81	33.31	30.60	97.98	111.50	-----	----- peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ac40

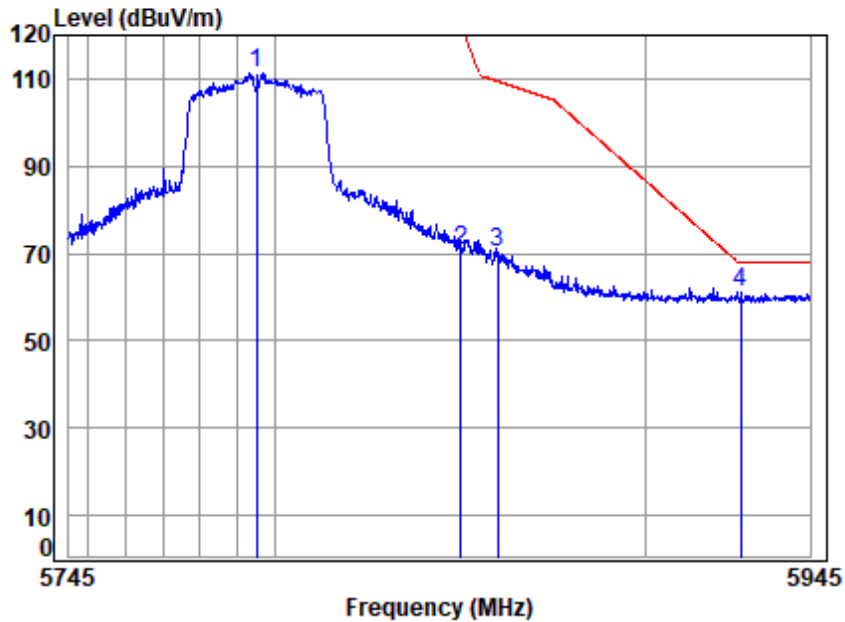
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	96.32	110.13	-----	-----	peak
2	5850.000	10.95	33.60	30.56	55.56	69.55	122.20	-52.65	peak
3	5860.000	10.94	33.58	30.56	51.86	65.82	109.40	-43.58	peak
4 pp	5942.966	10.86	33.59	30.52	47.49	61.42	68.20	-6.78	peak



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



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ac40

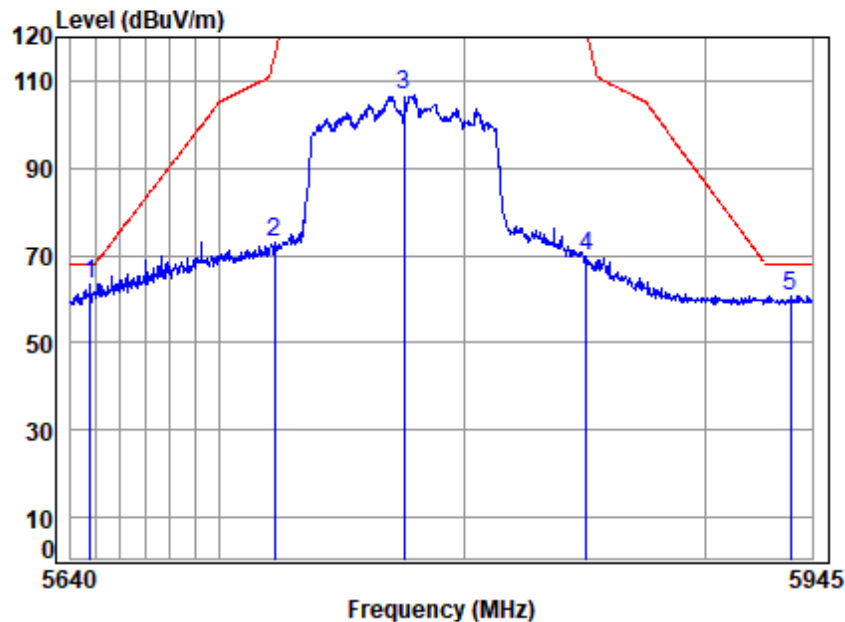
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	97.40	111.21	-----	-----	peak
2	5850.000	10.95	33.60	30.56	56.85	70.84	122.20	-51.36	peak
3	5860.000	10.94	33.58	30.56	56.17	70.13	109.40	-39.27	peak
4 pp	5925.907	10.87	33.55	30.53	47.44	61.33	68.20	-6.87	peak



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



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ac80

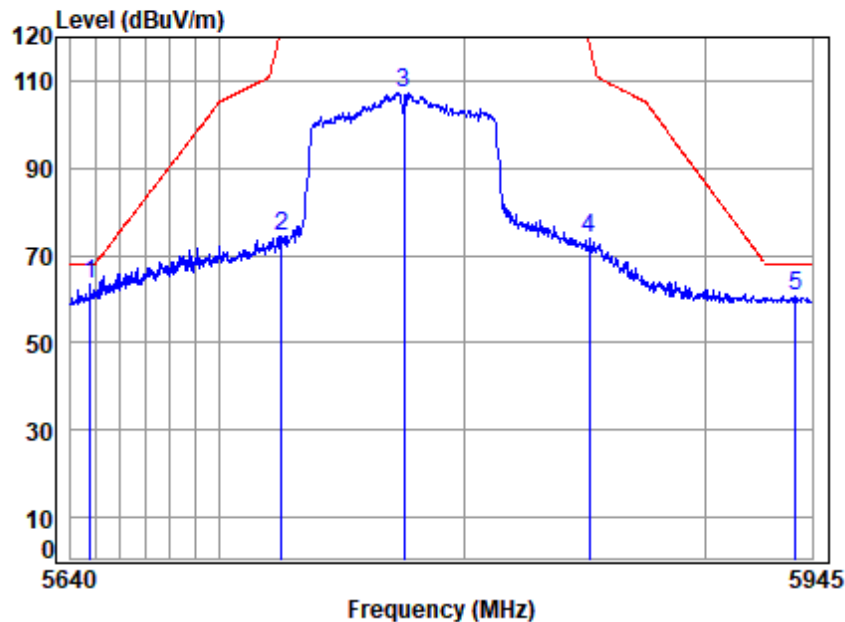
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.026	10.48	33.10	30.64	50.38	63.32	68.20	-4.88	Peak
2	5722.280	10.66	33.24	30.61	59.61	72.90	116.00	-43.10	peak
3	5775.000	10.91	33.35	30.59	93.12	106.79	-----	-----	peak
4	5850.575	10.95	33.60	30.56	55.68	69.67	120.89	-51.22	peak
5	5935.927	10.86	33.57	30.53	46.96	60.86	68.20	-7.34	peak



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



Condition: 3m VERTICAL

Job No : 04719AT

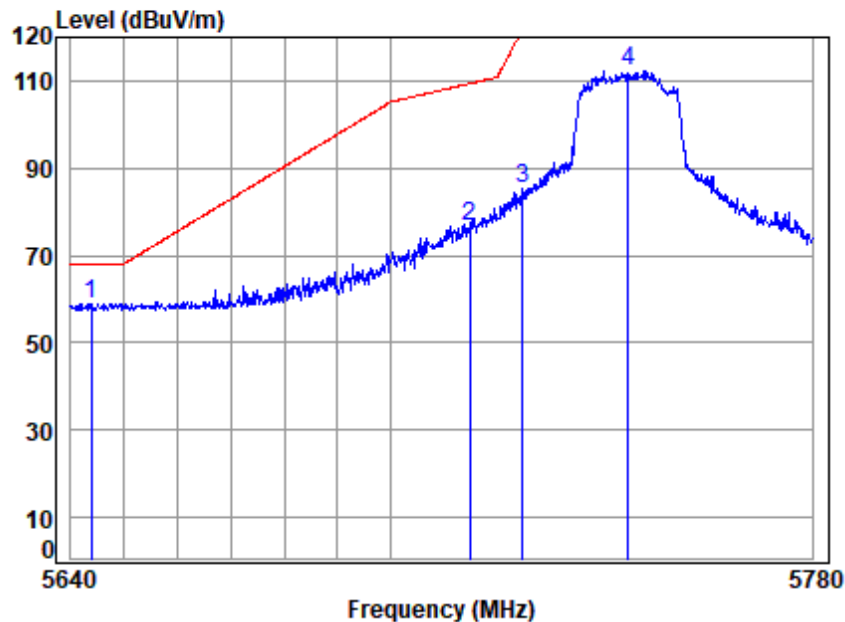
Mode : 5775 Band edge

: 5.8G Wi-Fi 11ac80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5647.729	10.48	33.10	30.64	50.33	63.27	68.20	-4.93	Peak
2	5724.993	10.67	33.25	30.61	61.24	74.55	122.18	-47.63	peak
3	5775.000	10.91	33.35	30.59	93.74	107.41	-----	-----	peak
4	5851.808	10.95	33.60	30.56	59.93	73.92	118.08	-44.16	peak
5	5938.116	10.86	33.58	30.52	46.78	60.70	68.20	-7.50	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5643.874	10.48	33.09	30.64	46.10	59.03	68.20	-9.17 peak
2	5715.000	10.63	33.23	30.61	63.20	76.45	109.40	-32.95 peak
3	5725.000	10.68	33.25	30.61	71.79	85.11	122.20	-37.09 peak
4	5745.000	10.77	33.29	30.60	98.74	112.20	-----	----- peak



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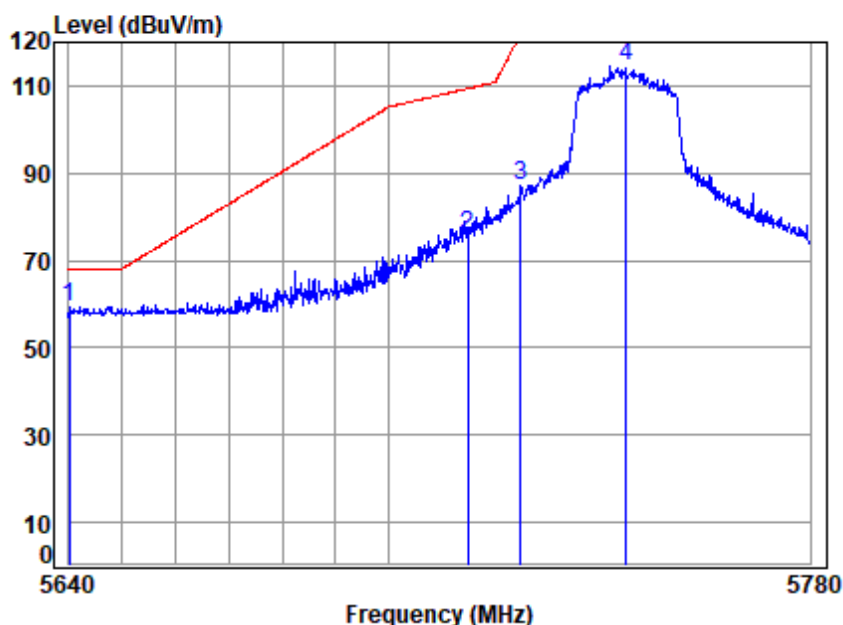
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

Page: 156 of 314

Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5640.138	10.47	33.08	30.64	46.43	59.34	68.20	-8.86 peak
2	5715.000	10.63	33.23	30.61	62.32	75.57	109.40	-33.83 peak
3	5725.000	10.68	33.25	30.61	73.90	87.22	122.20	-34.98 peak
4	5745.000	10.77	33.29	30.60	101.24	114.70	-----	----- peak



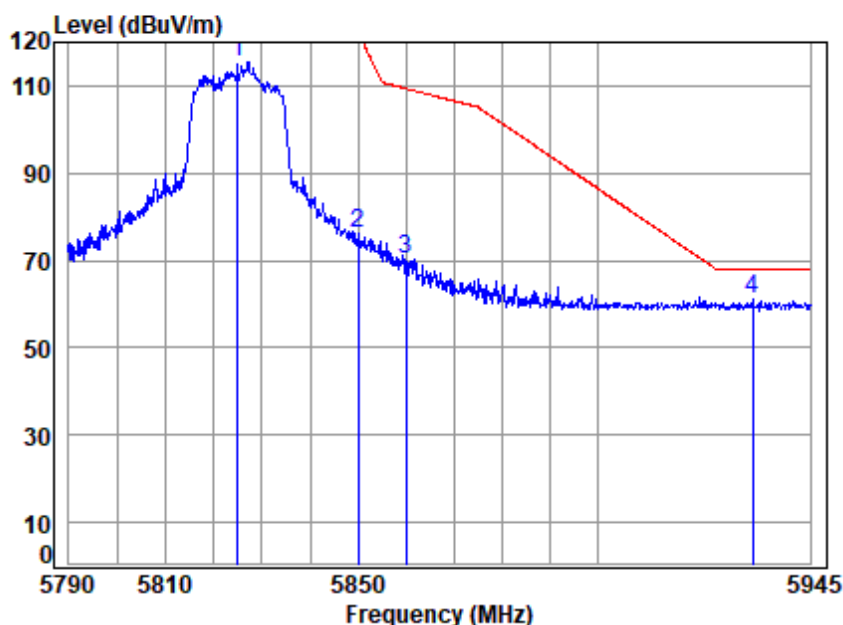
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ax20

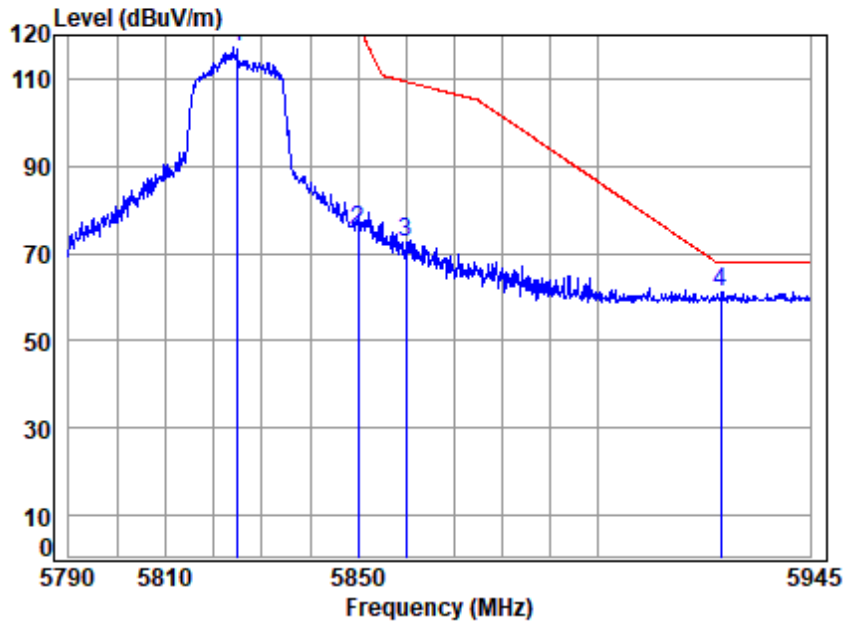
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825.000	10.99	33.50	30.57	101.66	115.58	-----	-----	peak
5850.000	10.95	33.60	30.56	62.27	76.26	122.20	-45.94	peak
5860.000	10.94	33.58	30.56	56.18	70.14	109.40	-39.26	peak
5932.762	10.86	33.57	30.53	47.18	61.08	68.20	-7.12	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ax20

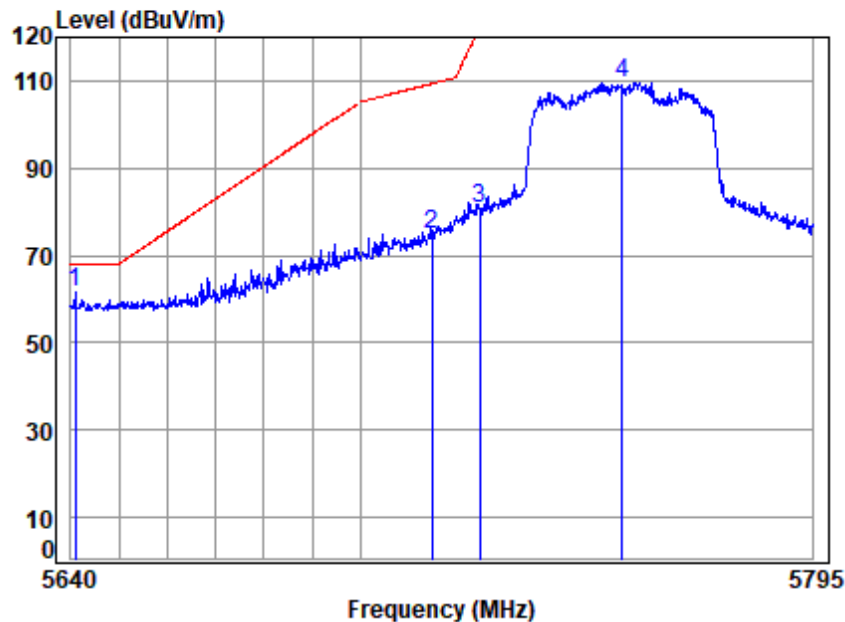
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825.000	10.99	33.50	30.57	103.18	117.10	-----	-----	peak
5850.000	10.95	33.60	30.56	61.23	75.22	122.20	-46.98	peak
5860.000	10.94	33.58	30.56	58.57	72.53	109.40	-36.87	peak
5926.183	10.87	33.55	30.53	47.27	61.16	68.20	-7.04	peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5755 Band edge

: 5.8G Wi-Fi 11ax40

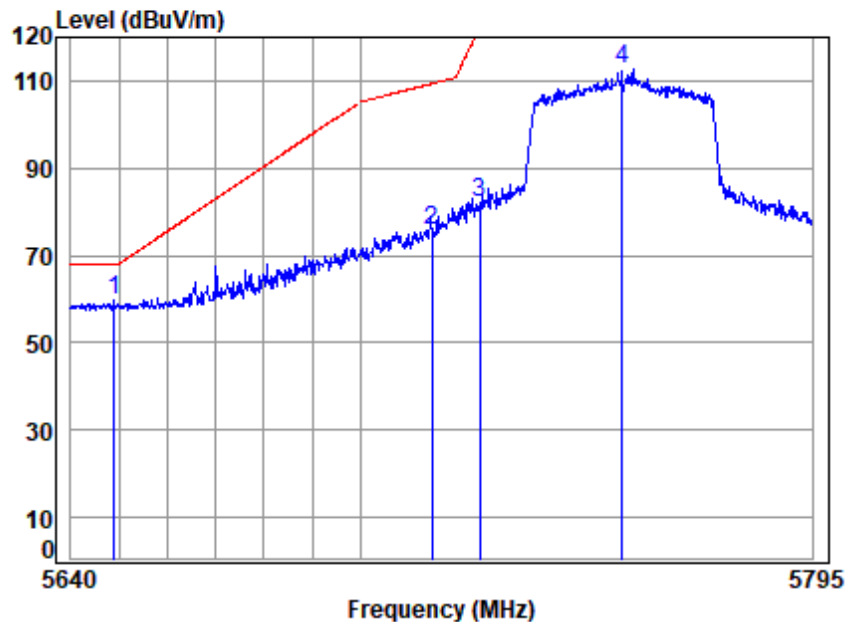
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5640.917	10.47	33.08	30.64	48.65	61.56	68.20	-6.64	peak
2	5715.000	10.63	33.23	30.61	61.76	75.01	109.40	-34.39	peak
3	5725.000	10.68	33.25	30.61	67.63	80.95	122.20	-41.25	peak
4	5755.000	10.81	33.31	30.60	95.99	109.51	-----	-----	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

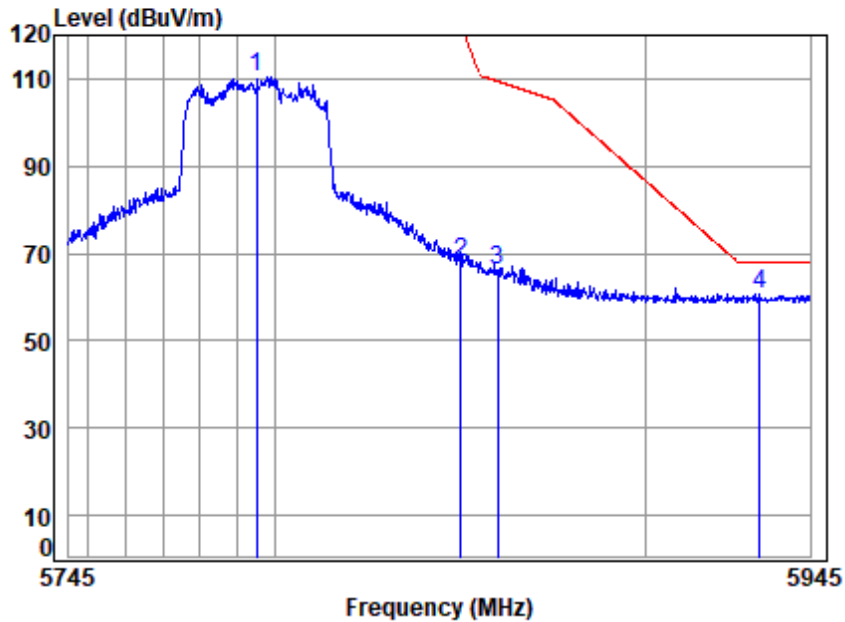
Mode : 5755 Band edge

: 5.8G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5649.029	10.48	33.10	30.64	46.81	59.75	68.20	-8.45	peak
2	5715.000	10.63	33.23	30.61	62.53	75.78	109.40	-33.62	peak
3	5725.000	10.68	33.25	30.61	68.84	82.16	122.20	-40.04	peak
4	5755.000	10.81	33.31	30.60	99.15	112.67	-----	-----	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ax40

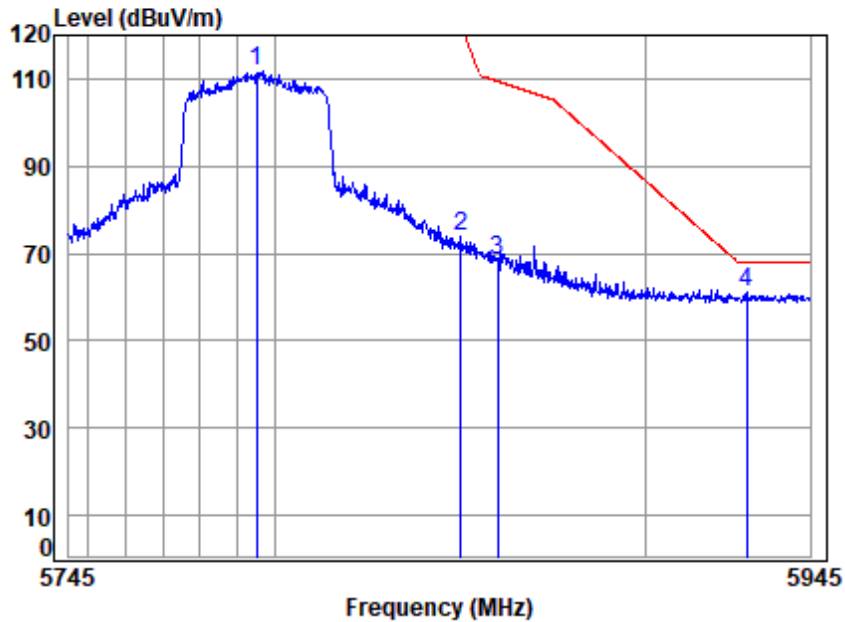
		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	96.54	110.35	-----	-----	peak
2	5850.000	10.95	33.60	30.56	53.88	67.87	122.20	-54.33	peak
3	5860.000	10.94	33.58	30.56	52.08	66.04	109.40	-43.36	peak
4 pp	5931.182	10.87	33.56	30.53	46.96	60.86	68.20	-7.34	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ax40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5795.000	11.00	33.39	30.58	97.75	111.56	-----	-----	peak
2 5850.000	10.95	33.60	30.56	59.83	73.82	122.20	-48.38	peak
3 5860.000	10.94	33.58	30.56	54.68	68.64	109.40	-40.76	peak
4 pp 5927.530	10.87	33.56	30.53	47.15	61.05	68.20	-7.15	peak



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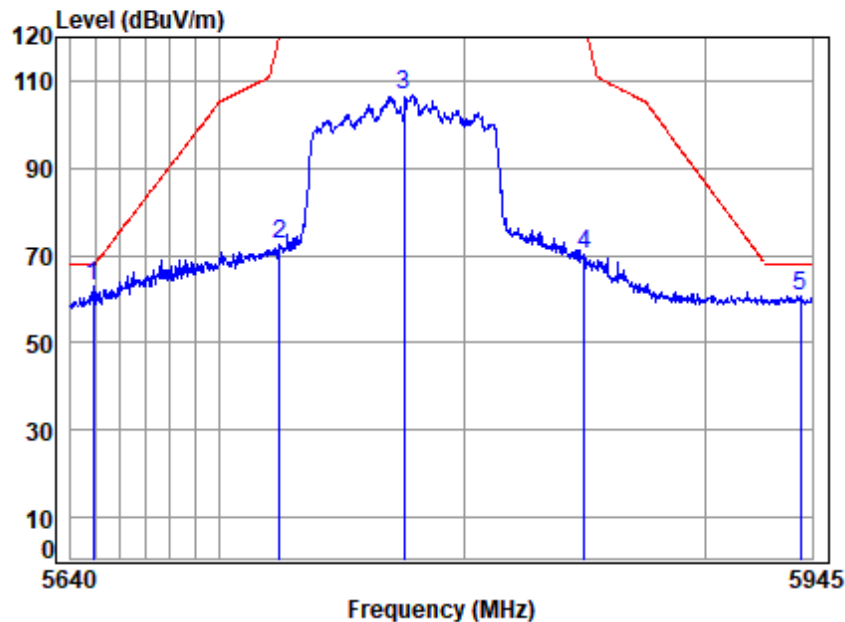
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471906

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.918	10.48	33.10	30.64	50.14	63.08	68.20	-5.12	Peak
2	5724.088	10.67	33.25	30.61	59.21	72.52	120.12	-47.60	peak
3	5775.000	10.91	33.35	30.59	93.17	106.84	-----	-----	peak
4	5849.650	10.96	33.60	30.56	56.13	70.13	-----	-----	peak
5	5939.993	10.86	33.58	30.52	46.96	60.88	68.20	-7.32	peak



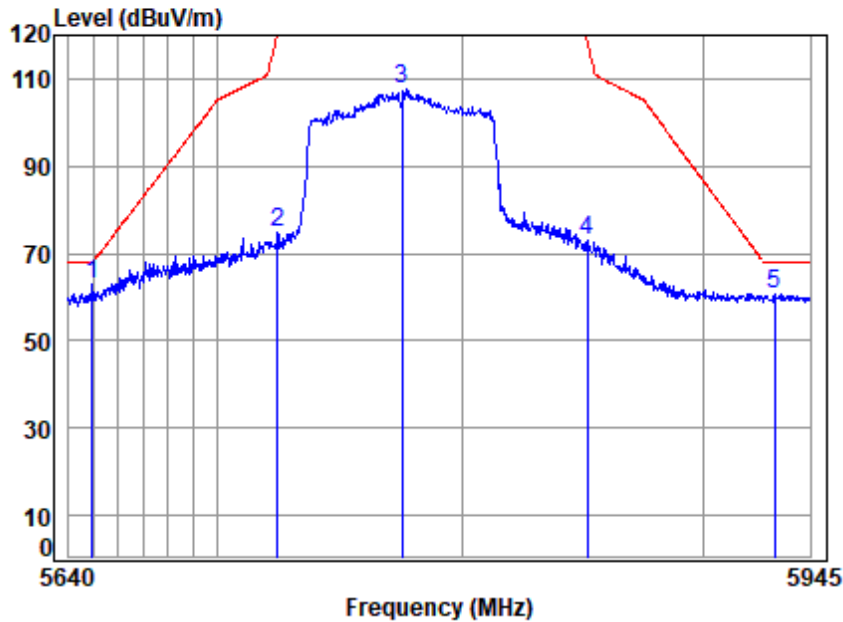
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5649.513	10.48	33.10	30.64	49.95	62.89	68.20	-5.31	Peak
2	5724.088	10.67	33.25	30.61	61.41	74.72	120.12	-45.40	peak
3	5775.000	10.91	33.35	30.59	93.83	107.50	-----	-----	peak
4	5851.500	10.95	33.60	30.56	59.11	73.10	118.78	-45.68	peak
5	5929.990	10.87	33.56	30.53	46.87	60.77	68.20	-7.43	peak



7.6 Duty Cycle

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

7.6.1 E.U.T. Operation

Operating Environment:

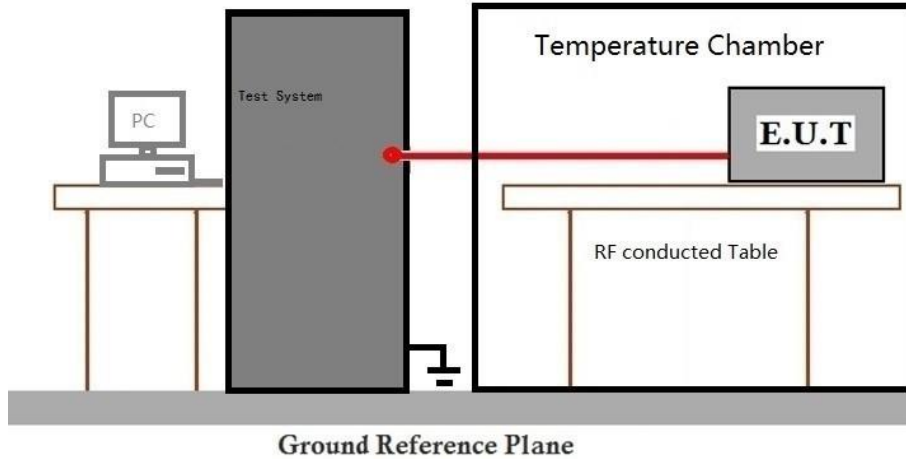
Temperature: 21.4 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.7 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

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

7.7.1 E.U.T. Operation

Operating Environment:

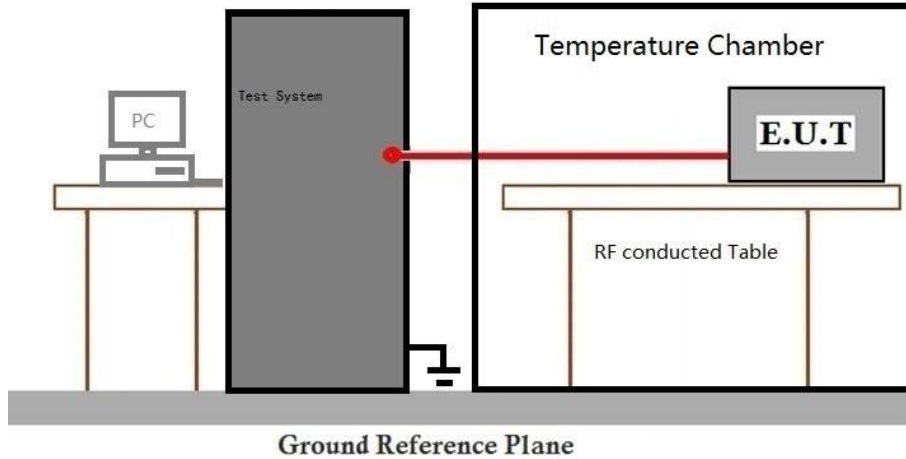
Temperature: 21.4 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.8 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

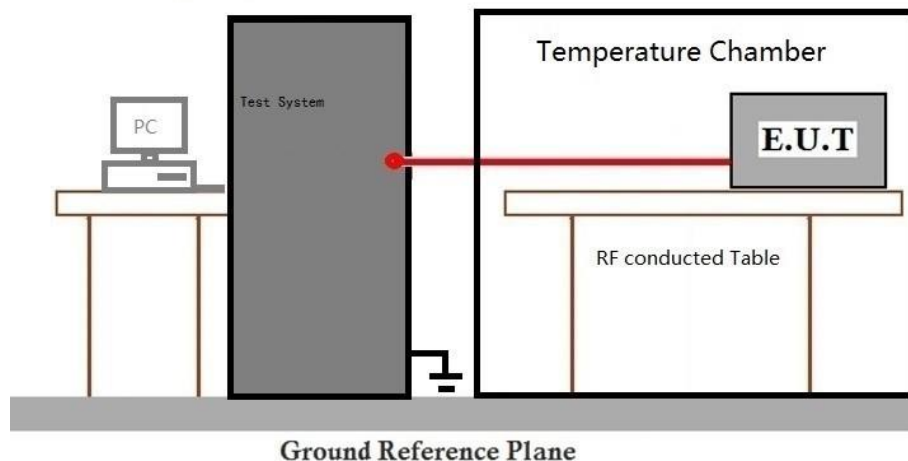
Humidity: 46.8 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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

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

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

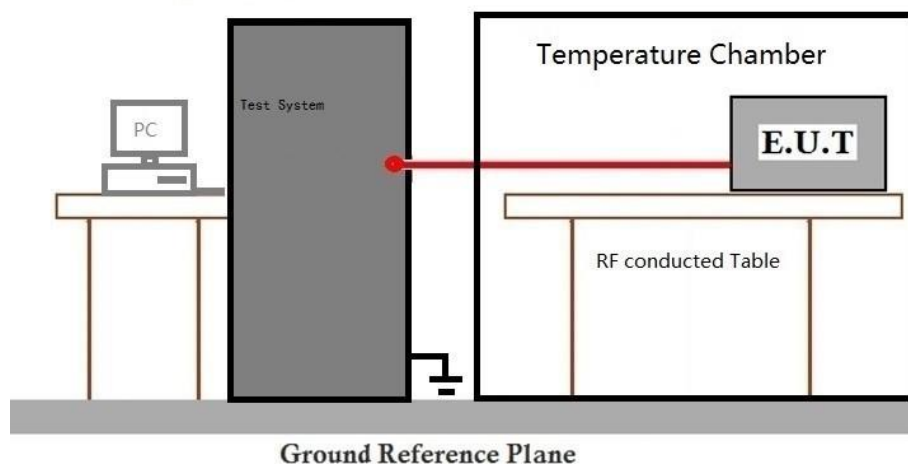
Humidity: 46.8 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram





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7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 Peak Power spectrum density

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

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

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 46.8 % RH

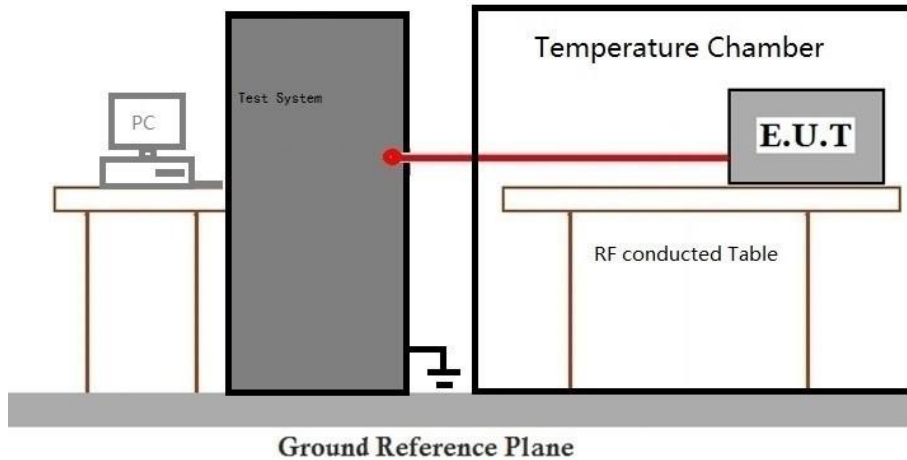
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.11 Frequency Stability

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

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 46.8 % RH

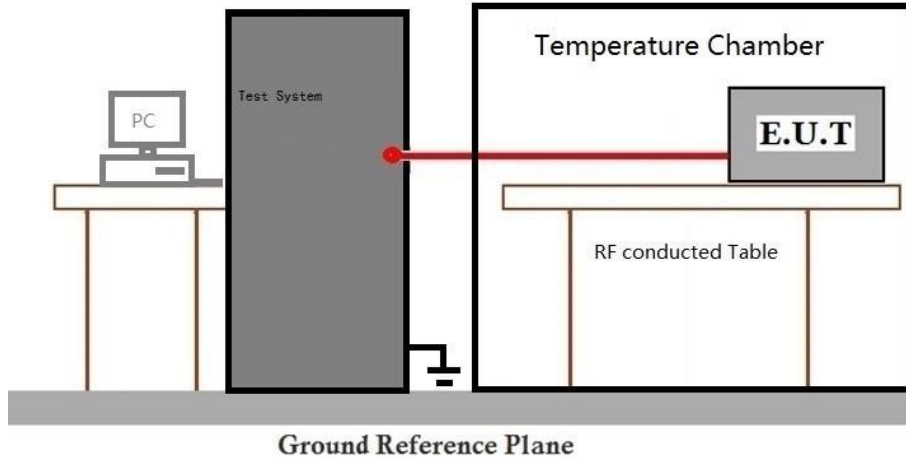
Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.



7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Setup Photo for SZCR2412004719AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2412004719AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant0

Ant0									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.096	2.112	99.24	0.03	0.03
		5200	/	/	2.096	2.113	99.20	0.04	0.03
		5240	/	/	2.096	2.113	99.20	0.04	0.03
		5745	/	/	2.097	2.113	99.24	0.03	0.03
		5785	/	/	2.097	2.114	99.20	0.04	0.07
		5825	/	/	2.096	2.113	99.20	0.04	0.03
802.11n (HT20)	MIMO	5180	/	/	5.404	5.421	99.69	0.01	0.00
		5200	/	/	5.404	5.421	99.69	0.01	0.00
		5240	/	/	5.404	5.421	99.69	0.01	0.00
		5745	/	/	5.404	5.422	99.67	0.01	0.04
		5785	/	/	5.404	5.421	99.69	0.01	0.03
		5825	/	/	5.404	5.420	99.70	0.01	0.03
802.11n (HT40)	MIMO	5190	/	/	4.577	4.593	99.65	0.02	0.04
		5230	/	/	4.576	4.592	99.65	0.02	0.03
		5755	/	/	4.576	4.592	99.65	0.02	0.00
		5795	/	/	4.576	4.592	99.65	0.02	0.03
802.11ac (VHT20)	MIMO	5180	/	/	5.408	5.425	99.69	0.01	0.00
		5200	/	/	5.408	5.426	99.67	0.01	0.04
		5240	/	/	5.408	5.426	99.67	0.01	0.04
		5745	/	/	5.408	5.426	99.67	0.01	0.04
		5785	/	/	5.408	5.425	99.69	0.01	0.00
		5825	/	/	5.408	5.426	99.67	0.01	0.04
802.11ac (VHT40)	MIMO	5190	/	/	4.581	4.597	99.65	0.02	0.03
		5230	/	/	4.580	4.596	99.65	0.02	0.03
		5755	/	/	4.580	4.597	99.63	0.02	0.04
		5795	/	/	4.581	4.597	99.65	0.02	0.03
802.11ac	MIMO	5210	/	/	3.252	3.268	99.51	0.02	0.03

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(VHT80)		5775	/	/	3.253	3.269	99.51	0.02	0.03
802.11ax (HEW20)	MIMO	5180	SU	/	5.402	5.420	99.67	0.01	0.04
		5200	SU	/	5.402	5.420	99.67	0.01	0.04
		5240	SU	/	5.403	5.421	99.67	0.01	0.03
		5745	SU	/	5.403	5.421	99.67	0.01	0.03
		5785	SU	/	5.402	5.420	99.67	0.01	0.04
		5825	SU	/	5.402	5.420	99.67	0.01	0.04
802.11ax (HEW40)	MIMO	5190	SU	/	3.625	3.641	99.56	0.02	0.03
		5230	SU	/	3.625	3.642	99.53	0.02	0.03
		5755	SU	/	3.626	3.642	99.56	0.02	0.03
		5795	SU	/	3.626	3.642	99.56	0.02	0.03
802.11ax (HEW80)	MIMO	5210	SU	/	2.669	2.685	99.40	0.03	0.03
		5775	SU	/	2.669	2.685	99.40	0.03	0.03



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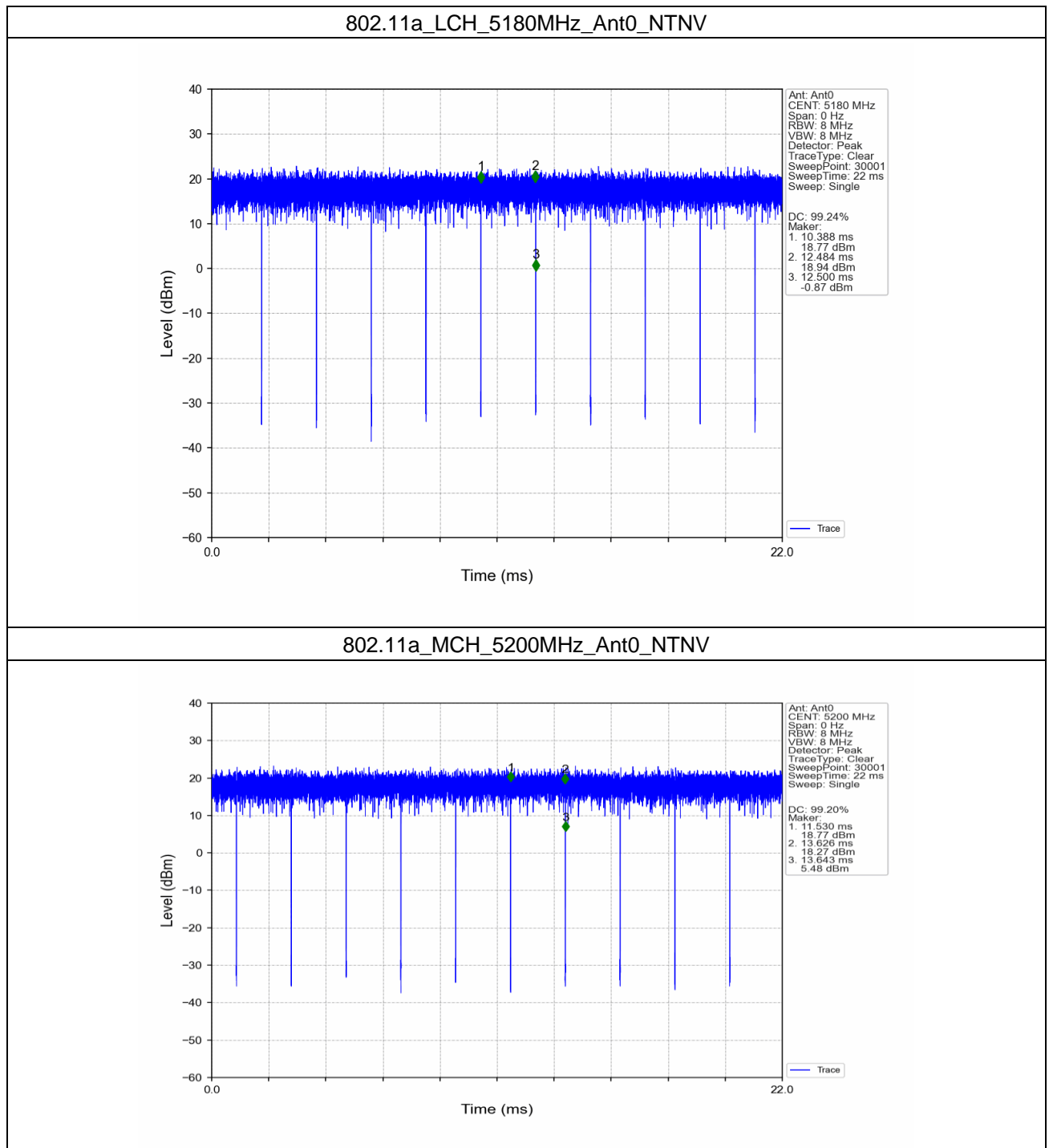
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1.2 Test Graph

1.2.1 Ant0



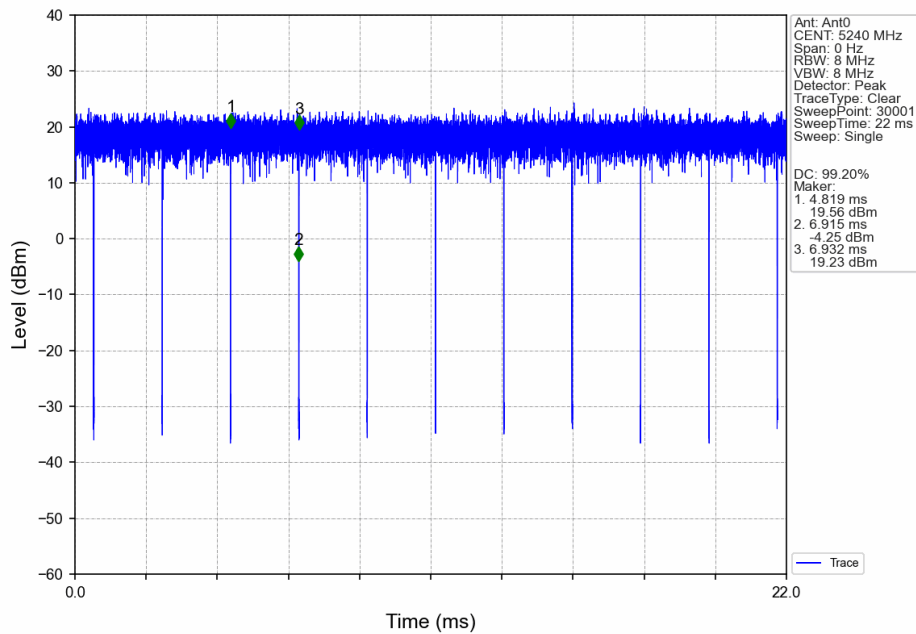
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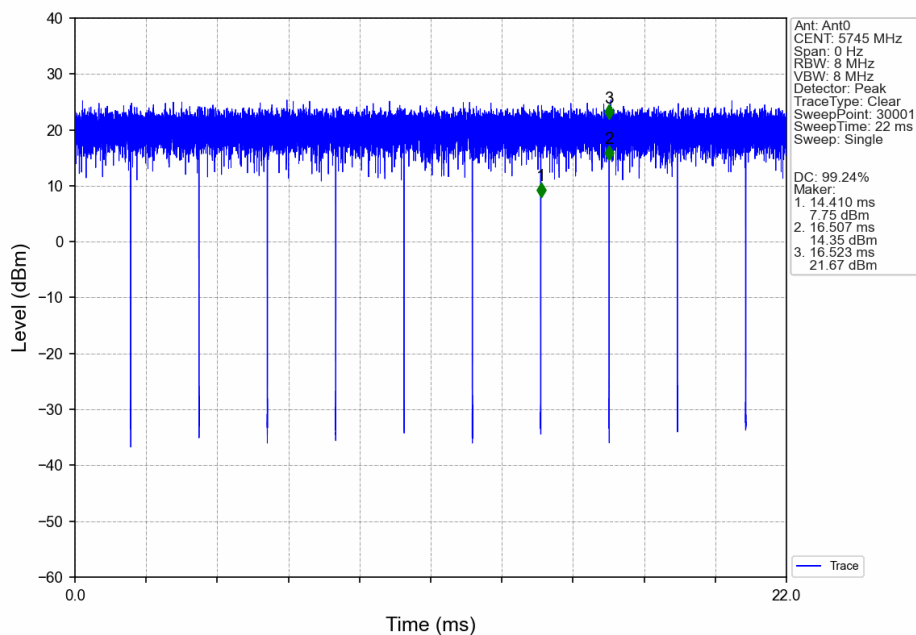
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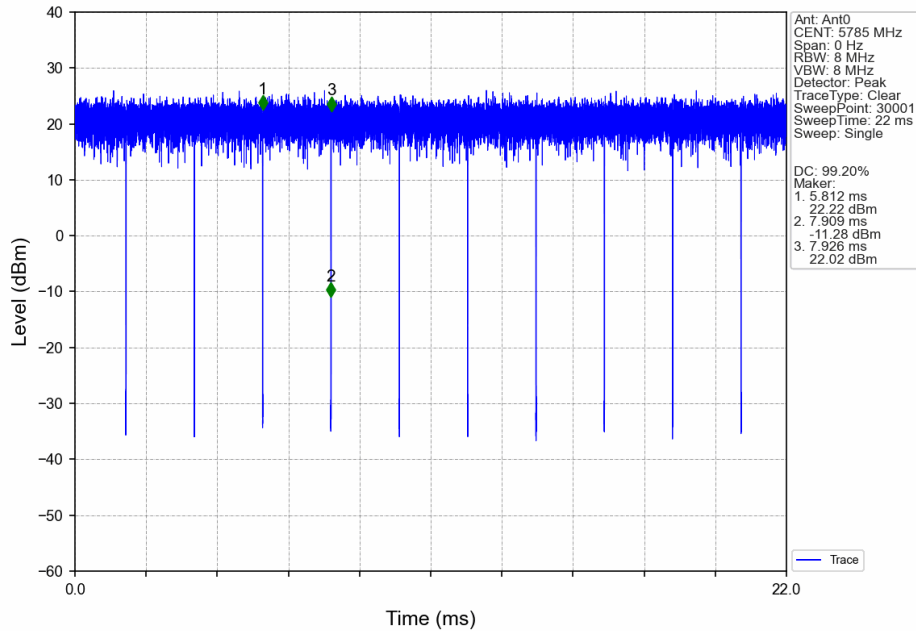
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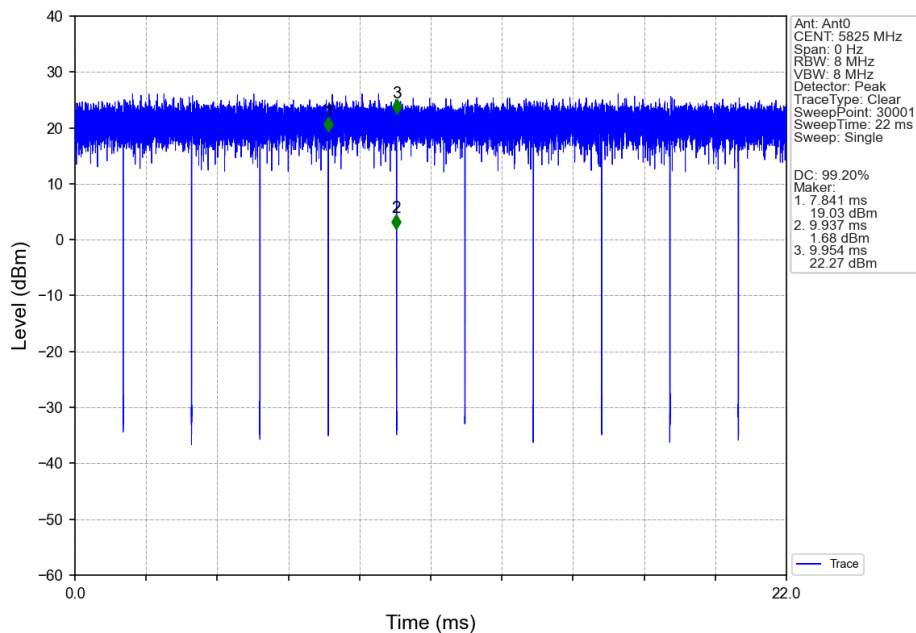
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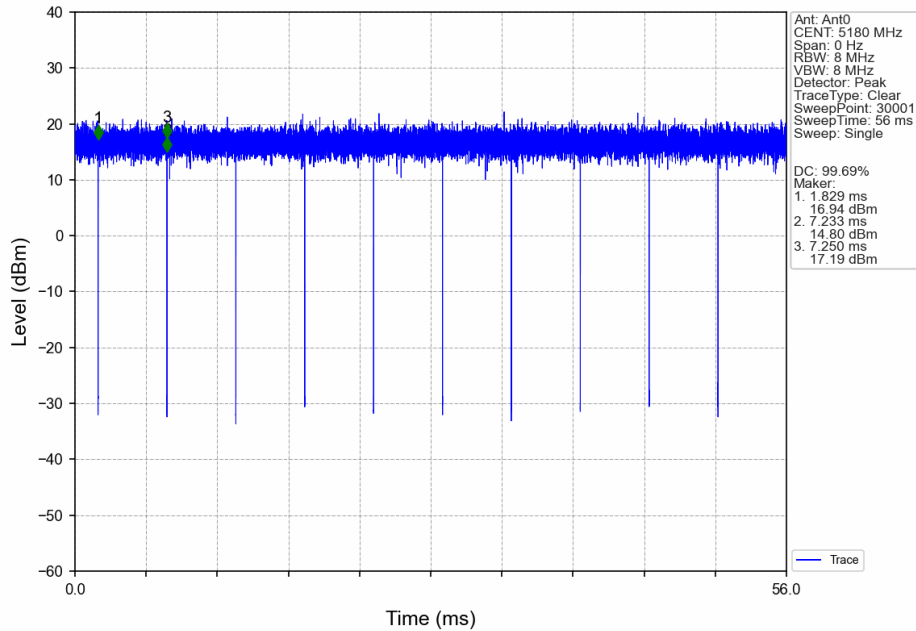
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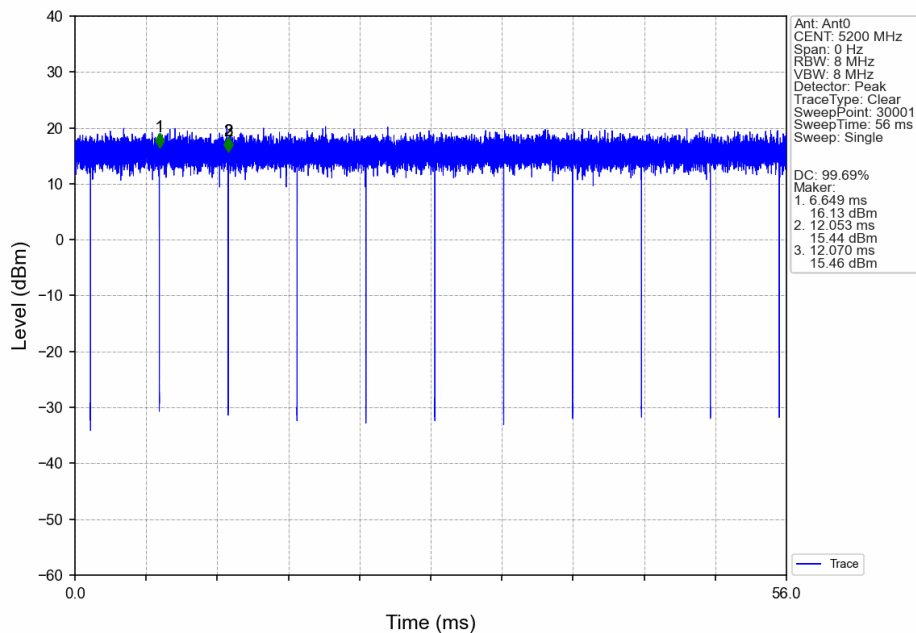
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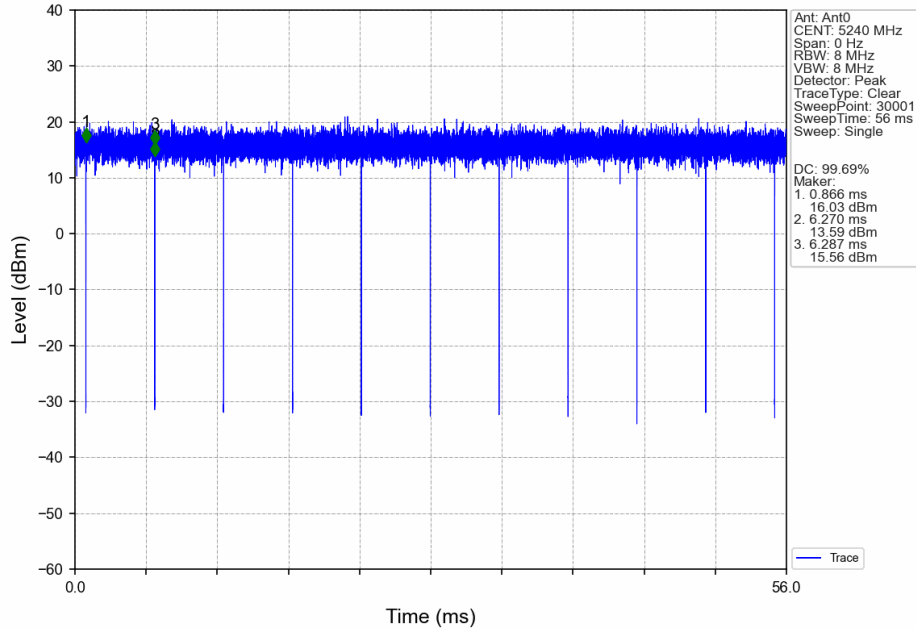
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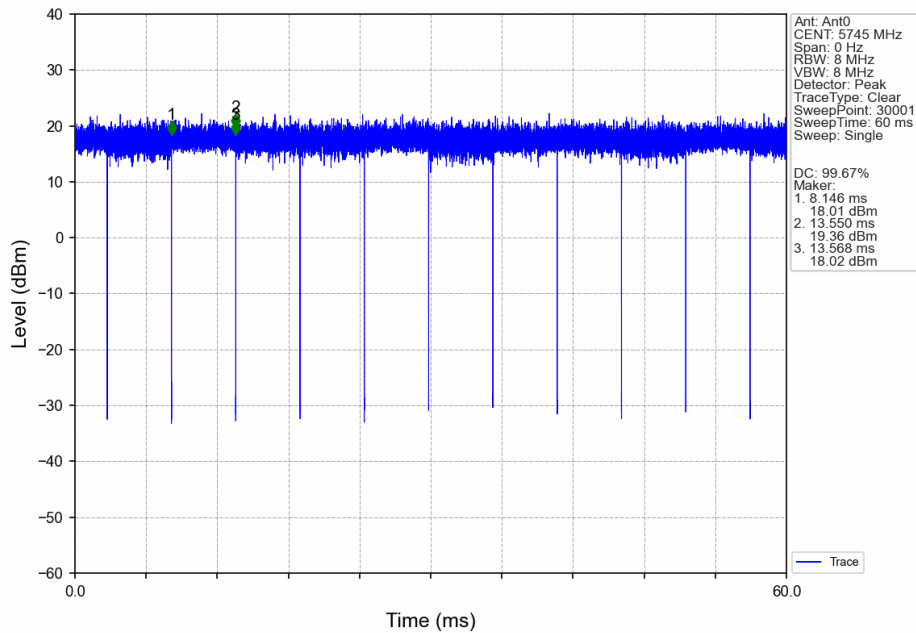
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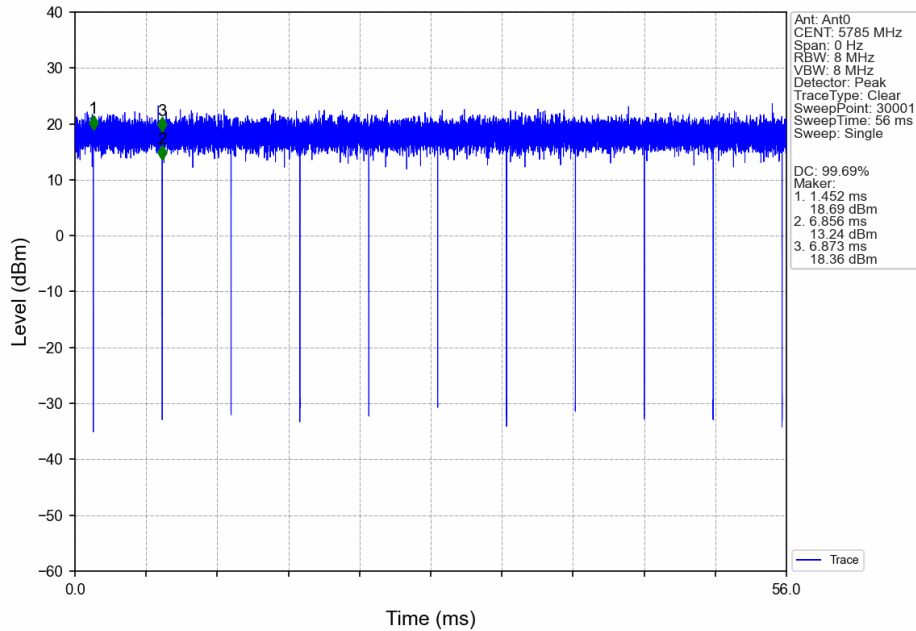
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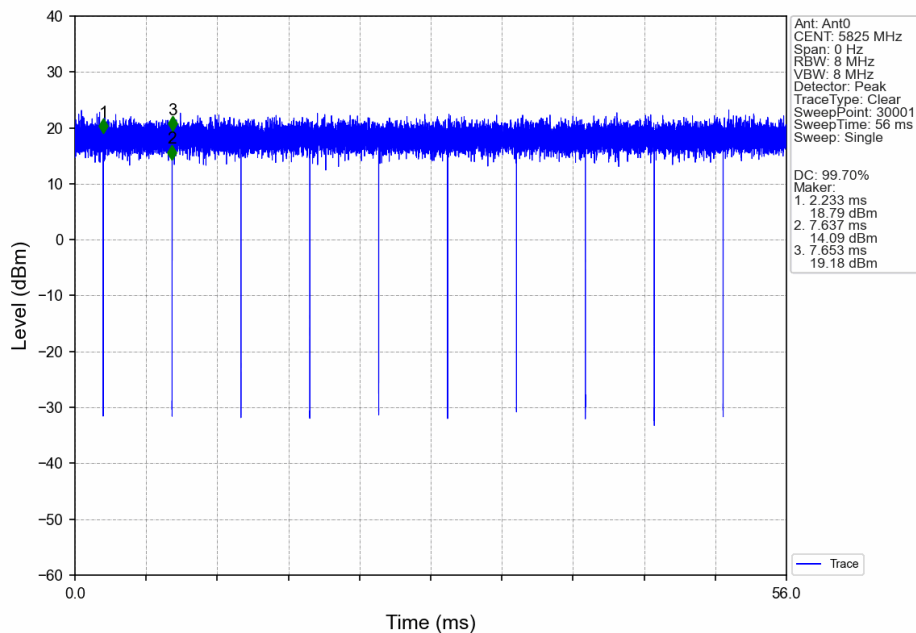
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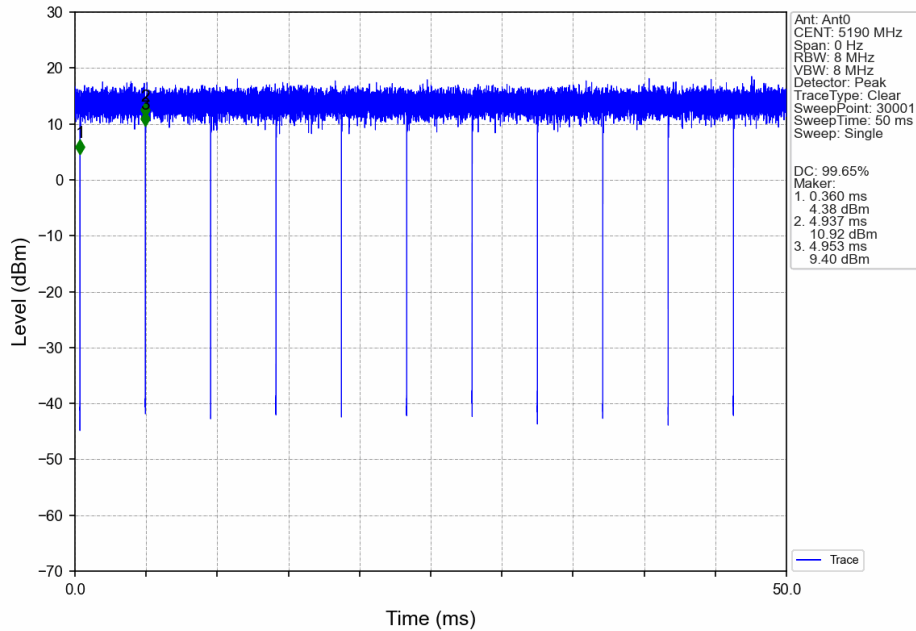
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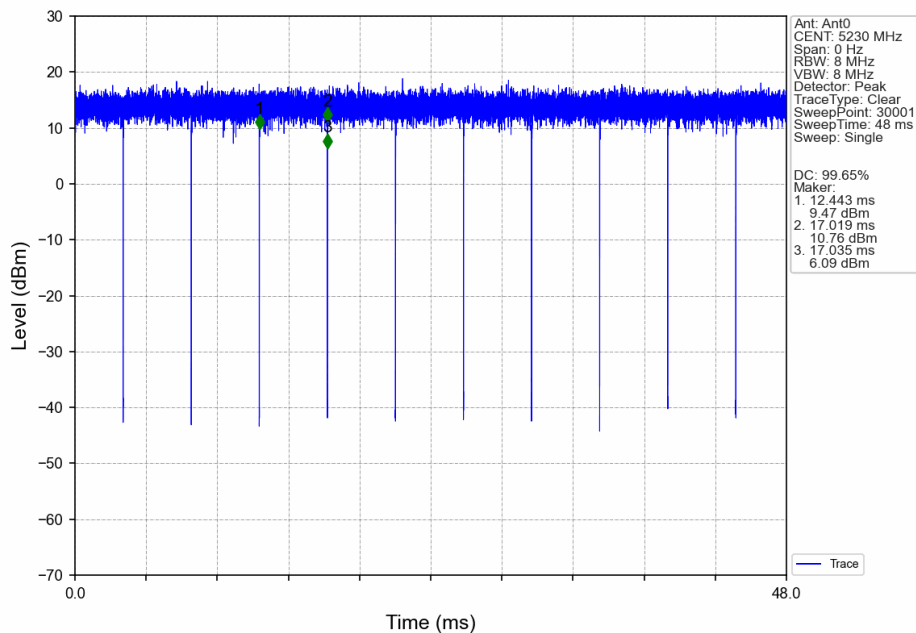
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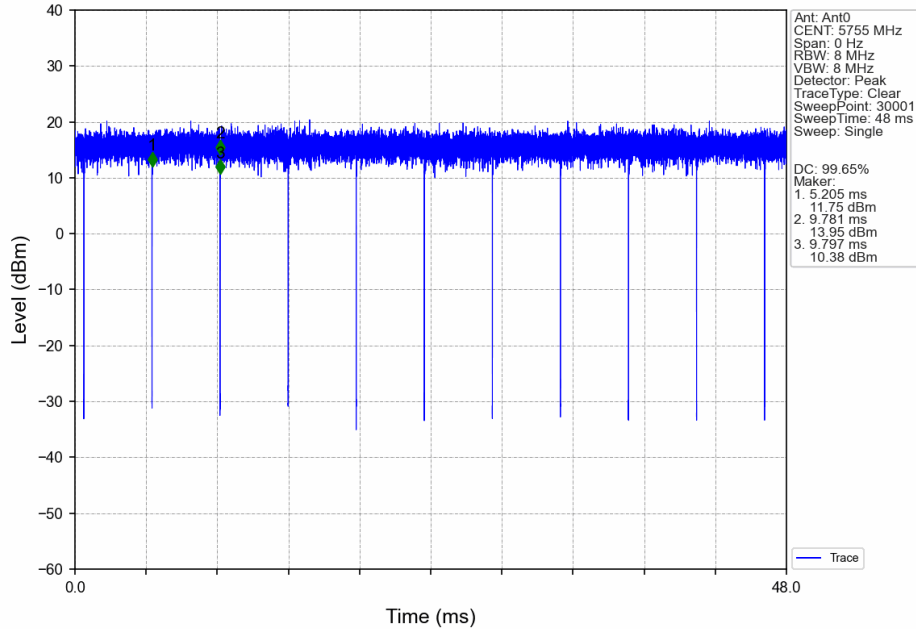
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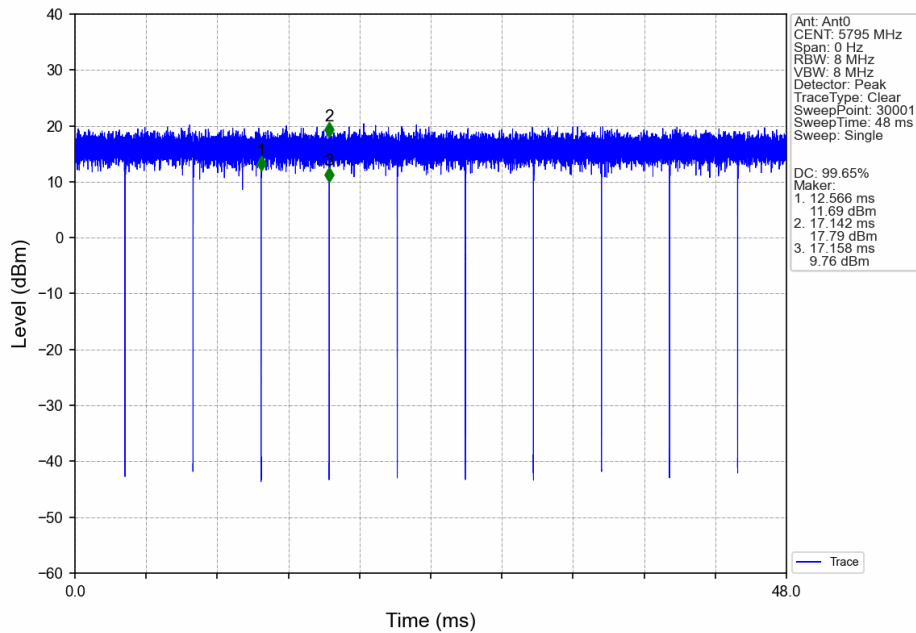
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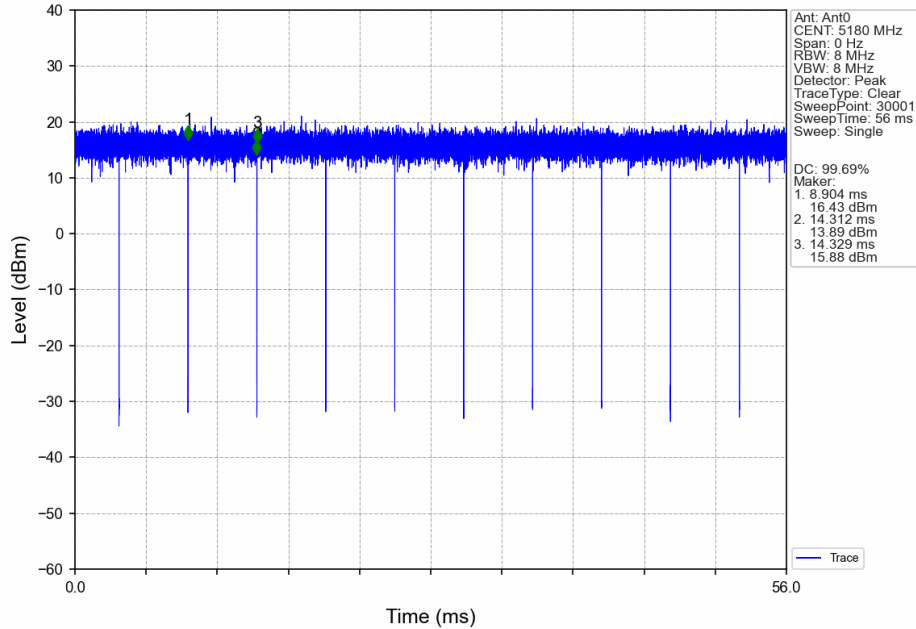
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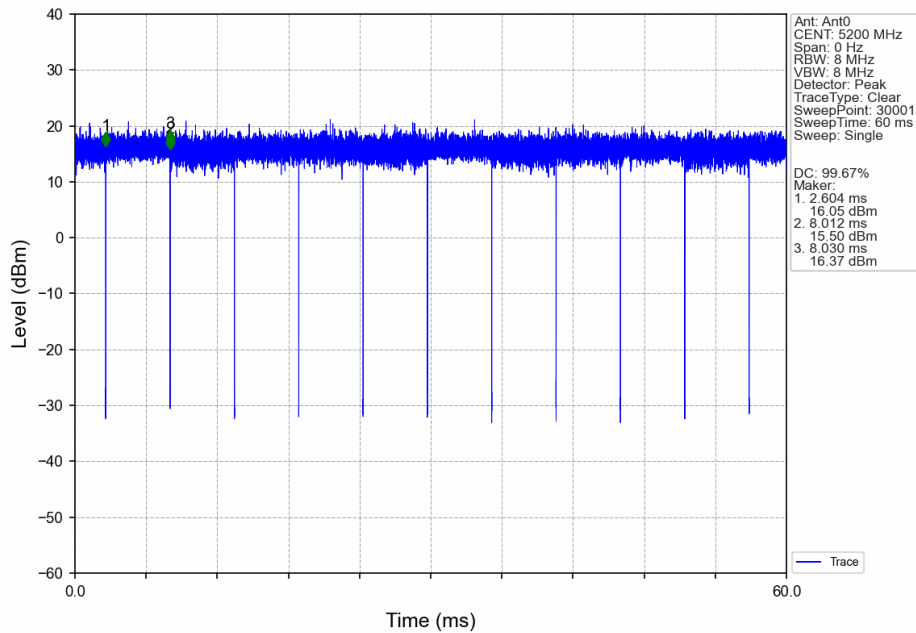
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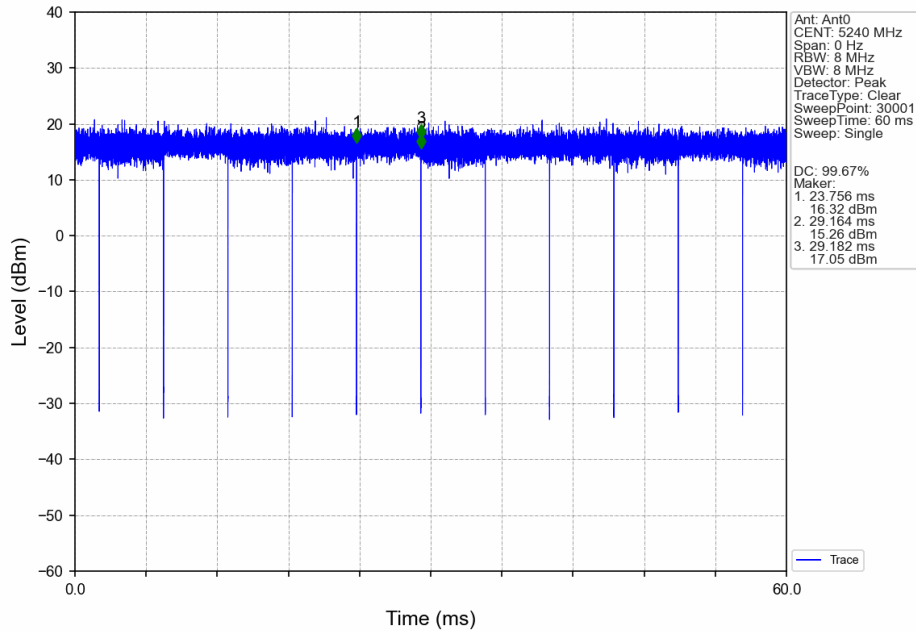
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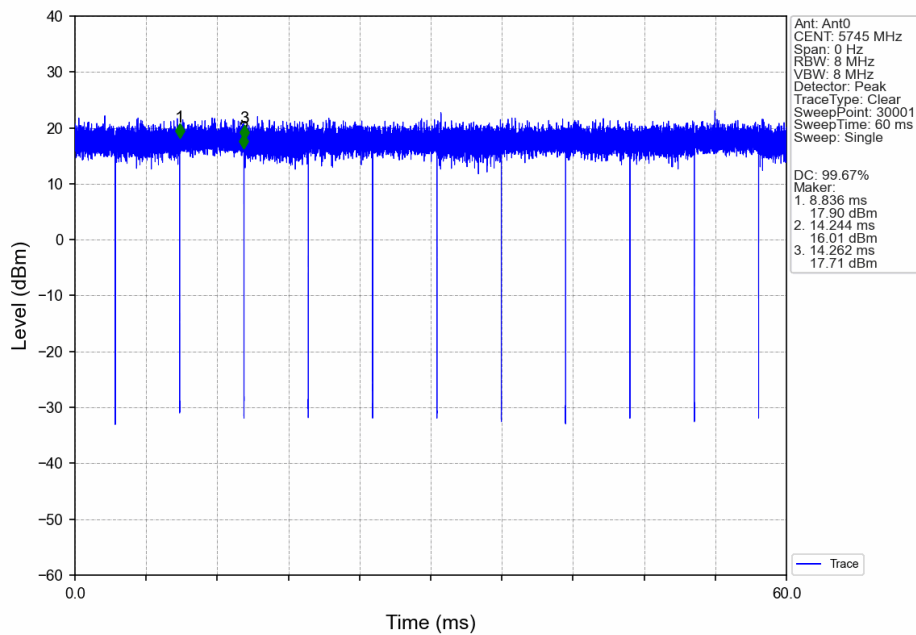
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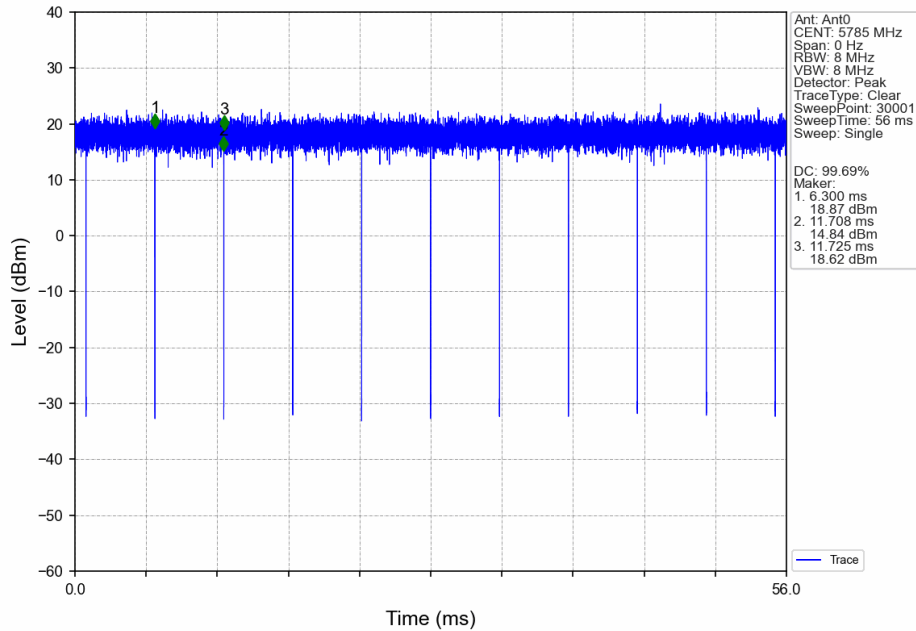
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802.11ac(VHT20)_LCH_5745MHz_Ant0_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant0_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant0_NTNV

