

TEST REPORT

Application No.: SZCR2508003498AT
Applicant: Lyno Dynamics LLC
Address of Applicant: 2232 Dell Range Blvd., Suite 245 Cheyenne, WY 82009
Manufacturer: Lyno Dynamics LLC
Address of Manufacturer: 2232 Dell Range Blvd., Suite 245 Cheyenne, WY 82009
Equipment Under Test (EUT):
EUT Name: Remote Controller
Model No.: LD220 RC
FCC ID: 2BQ98-LD220RC
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-08-08
Date of Test: 2025-08-24 to 2025-09-04
Date of Issue: 2025-09-11

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 2 of 281

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-09-11		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/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 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) 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 (2020) 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 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass



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3 Contents

	Page
1 Cover Page	1
2 Test Summary.....	3
3 Contents	4
4 General Information.....	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units.....	7
4.3 Measurement Uncertainty	7
4.4 Test Location	8
4.5 Test Facility.....	8
4.6 Deviation from Standards.....	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement.....	12
6.1 Antenna Requirement	12
6.1.1 Test Requirement:	12
6.1.2 Conclusion	12
6.2 Transmission in the Absence of Data	13
6.2.1 Test Requirement:	13
6.2.2 Conclusion	13
7 Radio Spectrum Matter Test Results.....	14
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	14
7.1.1 E.U.T. Operation	14
7.1.2 Test Mode Description	14
7.1.3 Test Setup Diagram	15
7.1.4 Measurement Procedure and Data.....	15
7.2 Radiated Emissions (Below 1GHz).....	18
7.2.1 E.U.T. Operation	18
7.2.2 Test Mode Description	18
7.2.3 Test Setup Diagram	19
7.2.4 Measurement Procedure and Data.....	20
7.3 Radiated Emissions (Above 1GHz).....	24
7.3.1 E.U.T. Operation	24
7.3.2 Test Mode Description	25
7.3.3 Test Setup Diagram	26
7.3.4 Measurement Procedure and Data.....	27
7.4 Radiated Emissions which fall in the restricted bands	52
7.4.1 E.U.T. Operation	52
7.4.2 Test Mode Description	53
7.4.3 Test Setup Diagram	54



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 5 of 281

7.4.4	Measurement Procedure and Data.....	55
7.5	Duty Cycle	128
7.5.1	E.U.T. Operation	128
7.5.2	Test Mode Description	128
7.5.3	Test Setup Diagram	129
7.5.4	Measurement Procedure and Data.....	129
7.6	99% Bandwidth	130
7.6.1	E.U.T. Operation	130
7.6.2	Test Mode Description	130
7.6.3	Test Setup Diagram	131
7.6.4	Measurement Procedure and Data.....	131
7.7	26dB Emission bandwidth	132
7.7.1	E.U.T. Operation	132
7.7.2	Test Mode Description	132
7.7.3	Test Setup Diagram	133
7.7.4	Measurement Procedure and Data.....	133
7.8	Maximum Conducted output power	134
7.8.1	E.U.T. Operation	134
7.8.2	Test Mode Description	135
7.8.3	Test Setup Diagram	136
7.8.4	Measurement Procedure and Data.....	136
7.9	Frequency Stability.....	137
7.9.1	E.U.T. Operation	137
7.9.2	Test Mode Description	137
7.9.3	Test Setup Diagram	138
7.9.4	Measurement Procedure and Data.....	138
7.10	Minimum 6 dB bandwidth (5.725-5.85 GHz band).....	139
7.10.1	E.U.T. Operation.....	139
7.10.2	Test Mode Description	139
7.10.3	Test Setup Diagram	140
7.10.4	Measurement Procedure and Data.....	140
7.11	Peak Power spectrum density	141
7.11.1	E.U.T. Operation.....	141
7.11.2	Test Mode Description	141
7.11.3	Test Setup Diagram	142
7.11.4	Measurement Procedure and Data.....	142
8	Test Setup Photo	143
9	EUT Constructional Details (EUT Photos).....	143
10	Appendix.....	144



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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):	5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	5210MHz (1 Channel); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (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:	Band1: Ant 0: 3.34dBi and Ant 1: 4.81dBi; Band4: Ant 0: 4.56dBi and Ant 1: 5.72dBi;
Remark:	Two antennas can simultaneous transmission
Antenna Number:	2
Cable Loss (for RF conducted test):	5.1G: 1.4dB 5.8G: 1.9dB

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Report No.: SZCR250800349805

Page: 7 of 281

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Lyno	QC24-CN	REF. No.SEA05P04G

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
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	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Peak Power spectrum density	$\pm 2.84\text{dB}$

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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Report No.: SZCR250800349805

Page: 8 of 281

4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21	2026-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
				2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 10 of 281

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
				2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
				2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 11 of 281

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	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 Band1: Ant 0: 3.34dBi and Ant 1: 4.81dBi; Band4: Ant 0: 4.56dBi and Ant 1: 5.72dBi;

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: SDR 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 (2020) 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: 25.3 °C

Humidity: 40.5 % RH

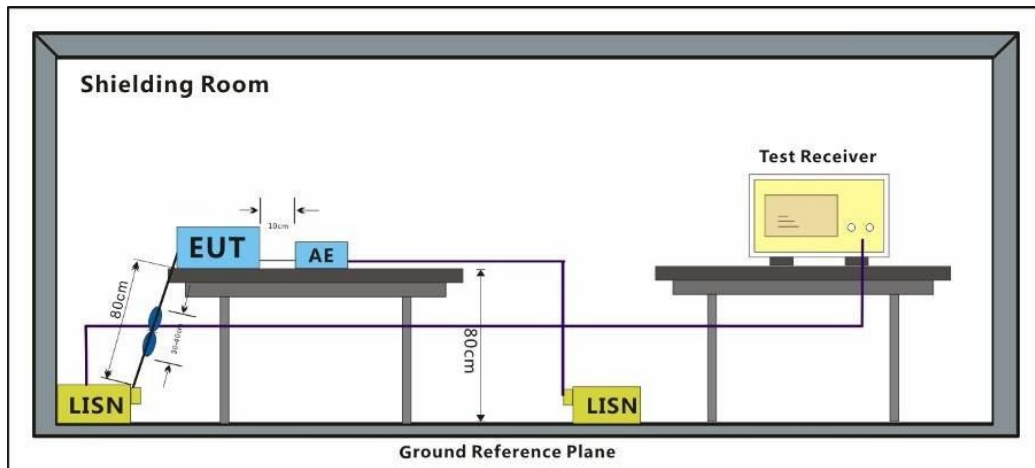
Atmospheric Pressure: 1020 mbar

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.



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

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.

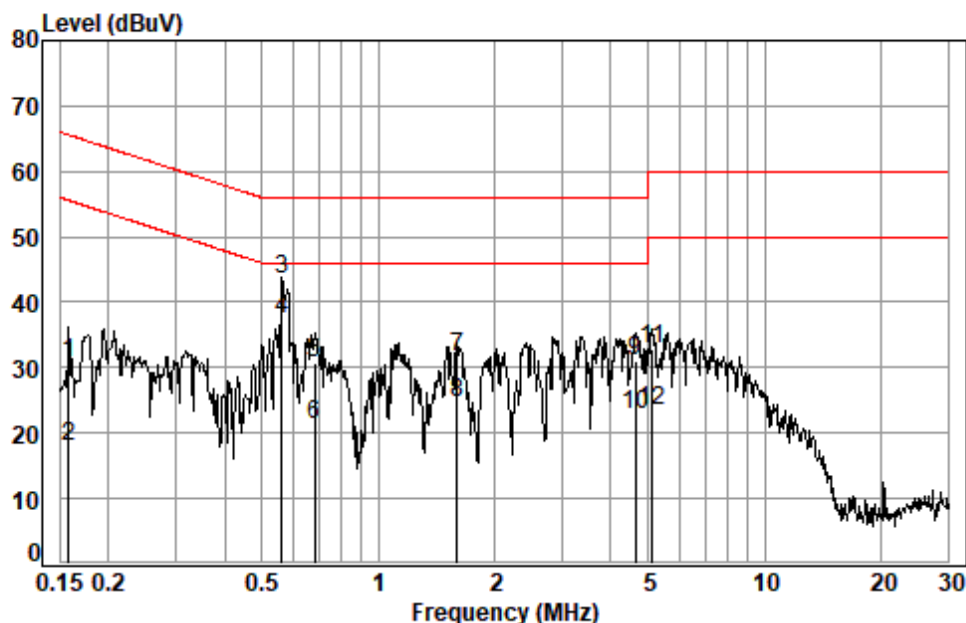
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 16 of 281

Test Mode: 11; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 03498AT

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.05	10.18	20.46	30.69	65.56	-34.87	QP
2	0.1582	0.05	10.18	7.85	18.08	55.56	-37.48	Average
3 *	0.5641	0.09	9.58	33.97	43.64	56.00	-12.36	QP
4 *	0.5641	0.09	9.58	27.77	37.44	46.00	-8.56	Average
5	0.6826	0.09	9.64	21.10	30.83	56.00	-25.17	QP
6	0.6826	0.09	9.64	11.53	21.26	46.00	-24.74	Average
7	1.6020	0.11	9.58	21.85	31.54	56.00	-24.46	QP
8	1.6020	0.11	9.58	14.86	24.55	46.00	-21.45	Average
9	4.6223	0.13	9.66	21.28	31.07	56.00	-24.93	QP
10	4.6223	0.13	9.66	12.96	22.75	46.00	-23.25	Average
11	5.1118	0.13	9.66	23.15	32.94	60.00	-27.06	QP
12	5.1118	0.13	9.66	13.51	23.30	50.00	-26.70	Average



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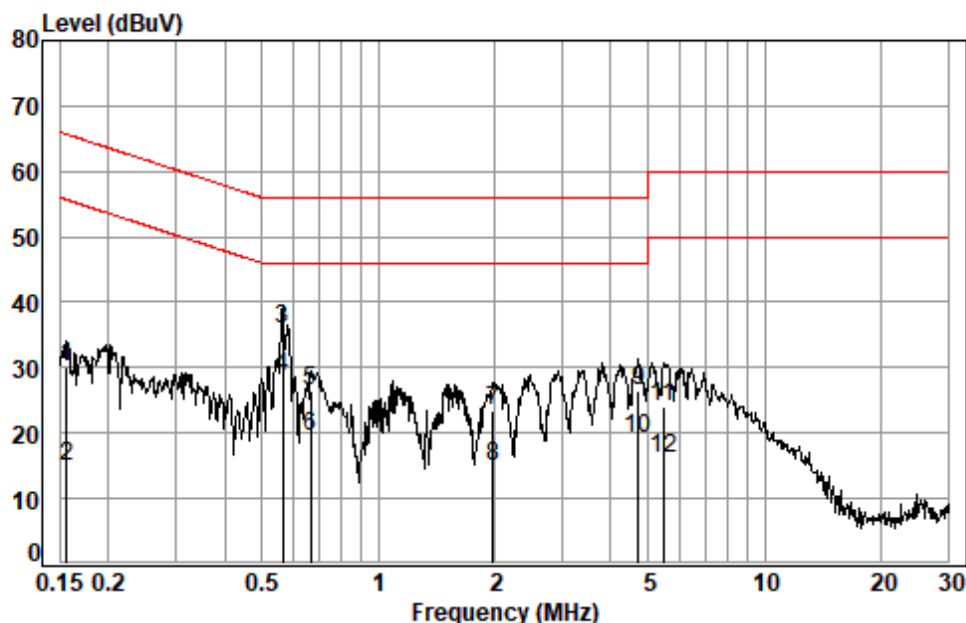
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 17 of 281

Test Mode: 11; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03498AT

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.05	10.14	19.97	30.16	65.65	-35.49	QP
2	0.1565	0.05	10.14	4.70	14.89	55.65	-40.76	Average
3 *	0.5671	0.09	9.69	26.05	35.83	56.00	-20.17	QP
4 *	0.5671	0.09	9.69	18.96	28.74	46.00	-17.26	Average
5	0.6683	0.09	9.66	16.60	26.35	56.00	-29.65	QP
6	0.6683	0.09	9.66	9.84	19.59	46.00	-26.41	Average
7	1.9801	0.11	9.55	13.74	23.40	56.00	-32.60	QP
8	1.9801	0.11	9.55	5.31	14.97	46.00	-31.03	Average
9	4.7213	0.13	9.56	16.91	26.60	56.00	-29.40	QP
10	4.7213	0.13	9.56	9.44	19.13	46.00	-26.87	Average
11	5.4763	0.14	9.58	14.41	24.13	60.00	-35.87	QP
12	5.4763	0.14	9.58	6.37	16.09	50.00	-33.91	Average



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Report No.: SZCR250800349805

Page: 18 of 281

7.2 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 10m

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 48.1 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 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.



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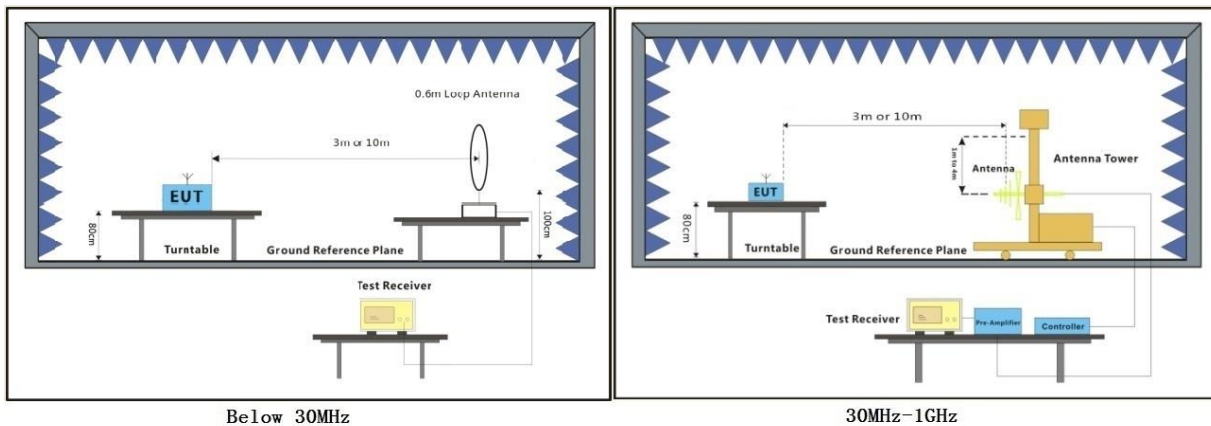
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		802.11ax(HE80). Only the data of worst case is recorded in the report.
Pre-scan	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been 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.
Final test	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.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

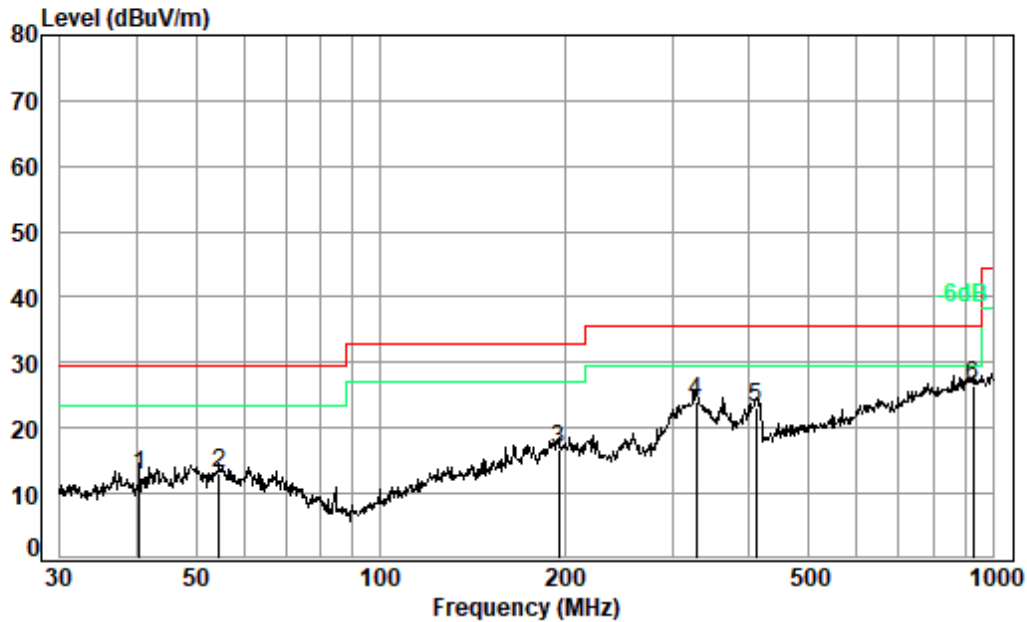
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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

Remark:

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



Test Mode: 12; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 03498AT

Test Mode: 12

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.417	28.34	16.78	0.14	32.40	12.86	29.50	-16.64	QP
2	54.643	27.21	17.97	0.22	32.42	12.98	29.50	-16.52	QP
3	195.822	34.42	14.31	0.57	32.50	16.80	33.00	-16.20	QP
4	327.887	36.75	18.35	1.27	32.47	23.90	35.60	-11.70	QP
5	410.383	34.16	19.86	1.51	32.42	23.11	35.60	-12.49	QP
6 pp	929.008	27.57	27.89	2.71	31.85	26.32	35.60	-9.28	QP



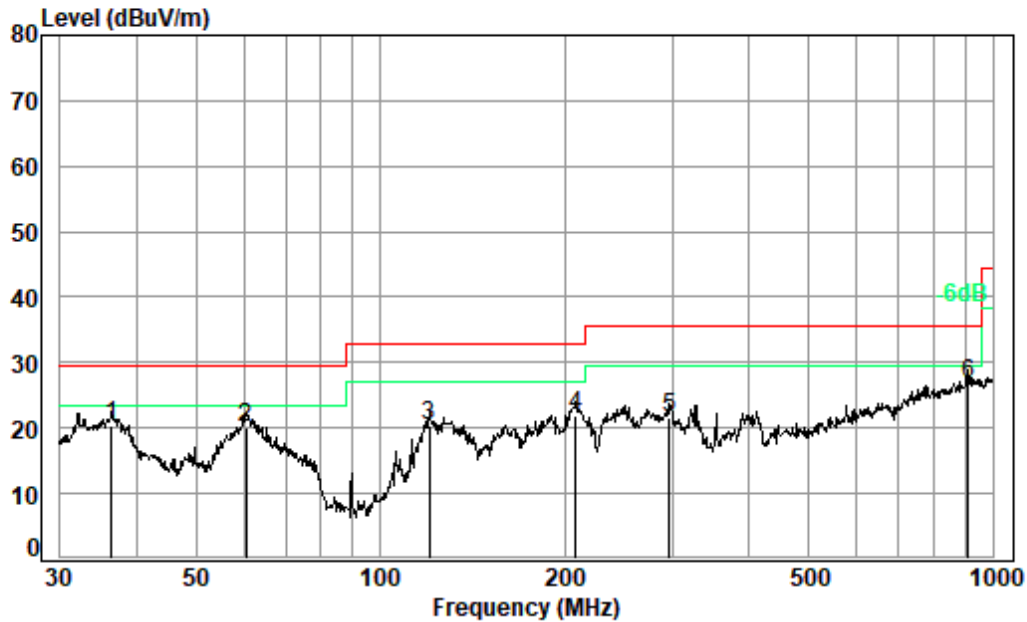
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Report No.: SZCR250800349805

Page: 22 of 281

Test Mode: 12; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03498AT

Test Mode: 12

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	36.381	35.93	16.66	0.12	32.40	20.31	29.50	-9.19	QP
2	60.280	35.15	17.26	0.17	32.44	20.14	29.50	-9.36	QP
3	120.277	36.69	15.45	0.70	32.50	20.34	33.00	-12.66	QP
4	208.580	39.82	14.01	0.62	32.50	21.95	33.00	-11.05	QP
5	296.184	35.40	17.48	1.16	32.50	21.54	35.60	-14.06	QP
6 pp	912.862	28.33	27.61	2.68	31.93	26.69	35.60	-8.91	QP



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Report No.: SZCR250800349805

Page: 23 of 281

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
40.417	12.86	4.40	14.65	23.32	40	-16.68	H
54.643	12.98	4.46	14.86	23.44	40	-16.56	H
195.822	16.80	6.92	23.06	27.26	43.5	-16.24	H
327.887	23.90	15.67	52.23	34.36	46	-11.64	H
410.383	23.11	14.31	47.68	33.57	46	-12.43	H
929.008	26.32	20.70	69.00	36.78	46	-9.22	H
36.381	20.31	10.36	34.54	30.77	40	-9.23	V
60.280	20.14	10.16	33.87	30.60	40	-9.40	V
120.277	20.34	10.40	34.66	30.80	43.5	-12.70	V
208.580	21.95	12.52	41.72	32.41	43.5	-11.09	V
296.184	21.54	11.94	39.80	32.00	46	-14.00	V
912.862	26.69	21.60	72.01	37.15	46	-8.85	V



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Shenzhen Branch (Shenzhen) 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

7.3 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2020) 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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar



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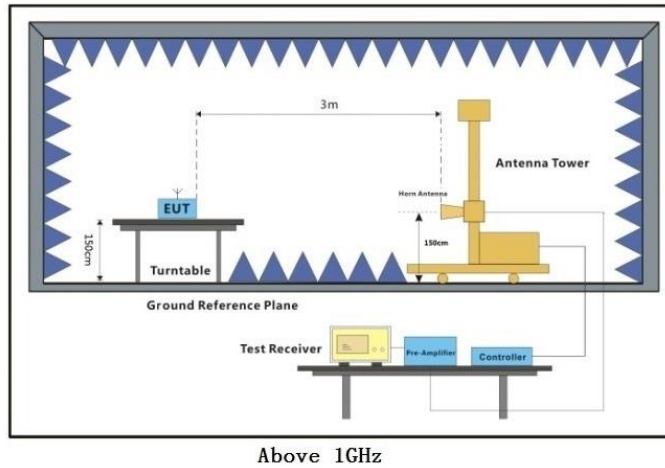
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7.3.2 Test Mode Description

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.
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.
Final test	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

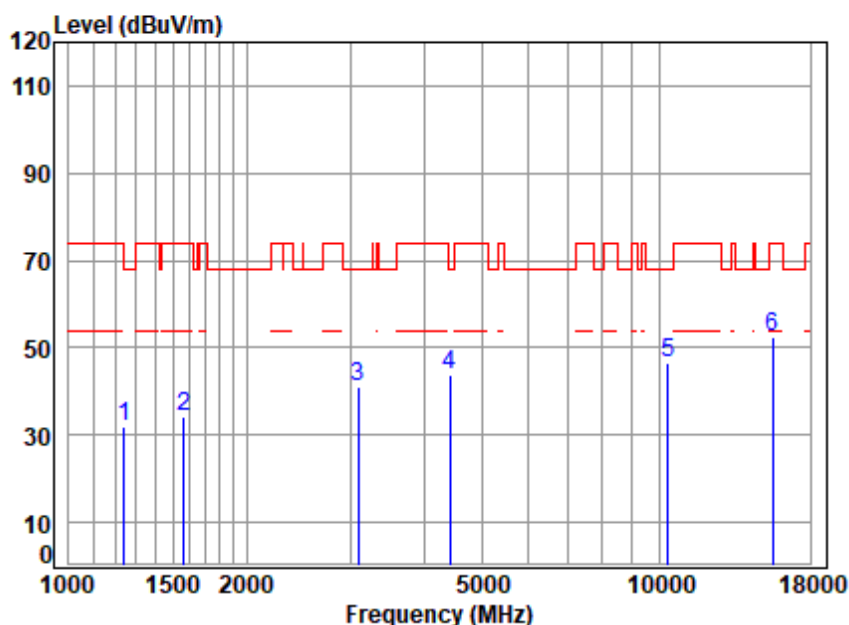
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was 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.
- 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.
- 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.
- 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.
- 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.
- 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: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

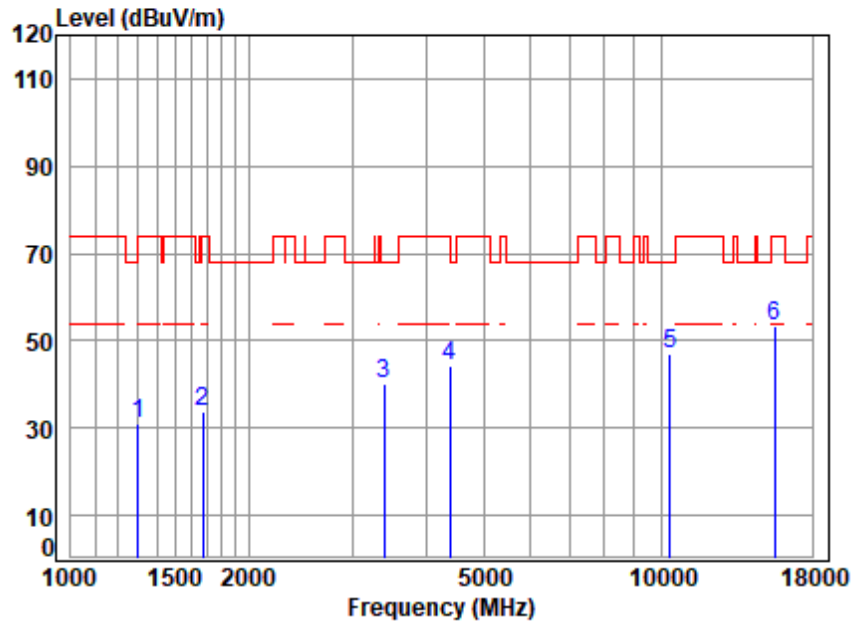


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	4.48	24.99	54.69	57.18	31.96	68.20	-36.24	peak
2	1569.721	4.66	26.92	54.80	57.23	34.01	74.00	-39.99	peak
3	3096.075	6.80	31.49	54.92	57.70	41.07	68.20	-27.13	peak
4	4417.841	7.94	34.59	54.26	55.35	43.62	68.20	-24.58	peak
5	10360.000	11.75	37.10	53.13	50.82	46.54	68.20	-21.66	peak
6	15540.000	14.81	41.10	52.16	48.58	52.33	74.00	-21.67	peak



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

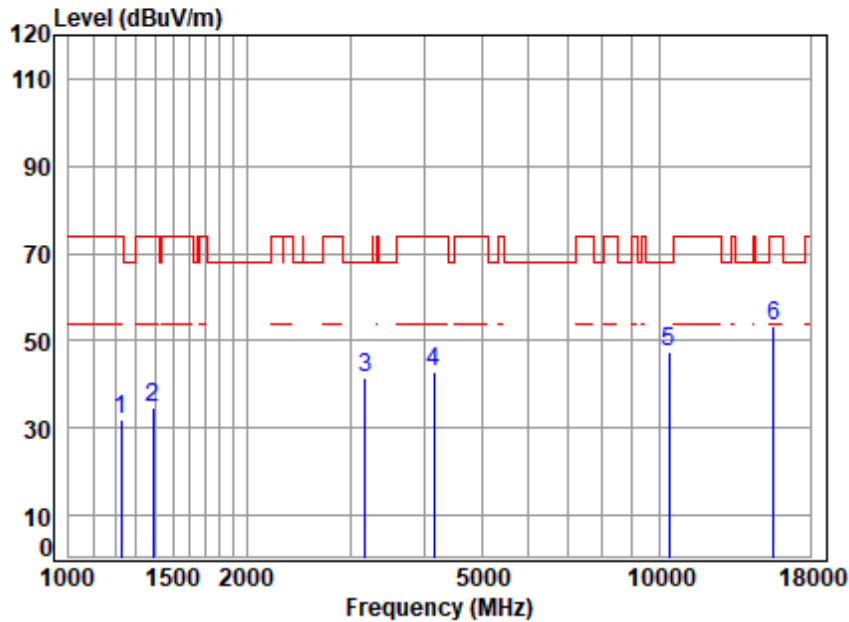


Site : chamber
 Condition: 3m VERTICAL
 Job No : 03498AT
 Mode : 5180 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.48	24.79	54.71	56.59	31.15	74.00	-42.85	peak
2	1672.779	4.92	26.25	54.82	57.57	33.92	74.00	-40.08	peak
3	3396.098	6.90	32.38	54.70	55.72	40.30	68.20	-27.90	peak
4	4392.376	7.99	34.74	54.26	55.65	44.12	74.00	-29.88	peak
5	10360.000	11.75	37.10	53.13	51.15	46.87	68.20	-21.33	peak
6	15540.000	14.81	41.10	52.16	49.80	53.55	74.00	-20.45	peak



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

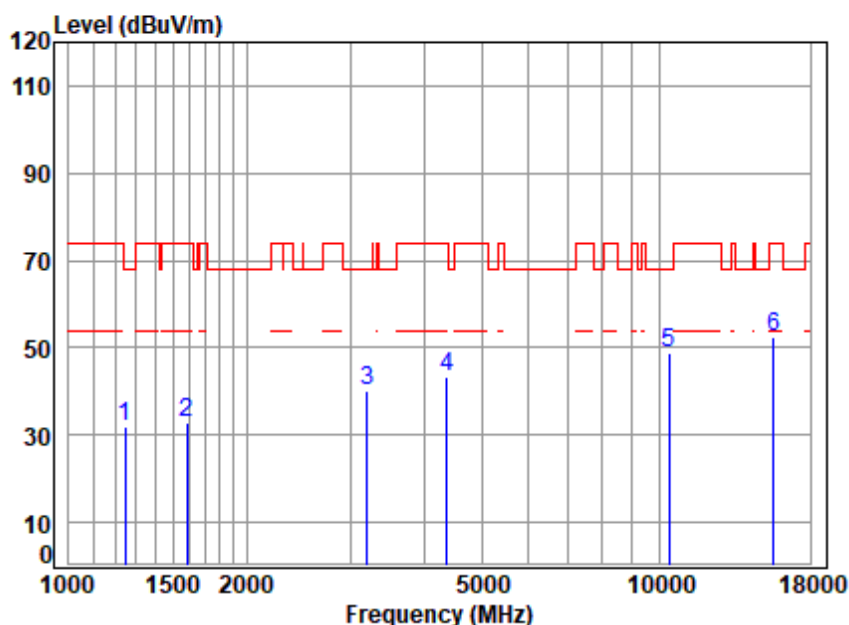


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03498AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	4.48	24.79	54.69	57.40	31.98	74.00	-42.02	peak
2	1390.276	4.48	24.58	54.74	60.48	34.80	74.00	-39.20	peak
3	3177.672	6.83	32.72	54.86	56.61	41.30	68.20	-26.90	peak
4	4145.664	8.47	33.73	54.28	55.15	43.07	74.00	-30.93	peak
5	10400.000	11.82	37.10	53.12	51.49	47.29	68.20	-20.91	peak
6	15600.000	14.88	41.10	52.11	49.45	53.32	74.00	-20.68	peak



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

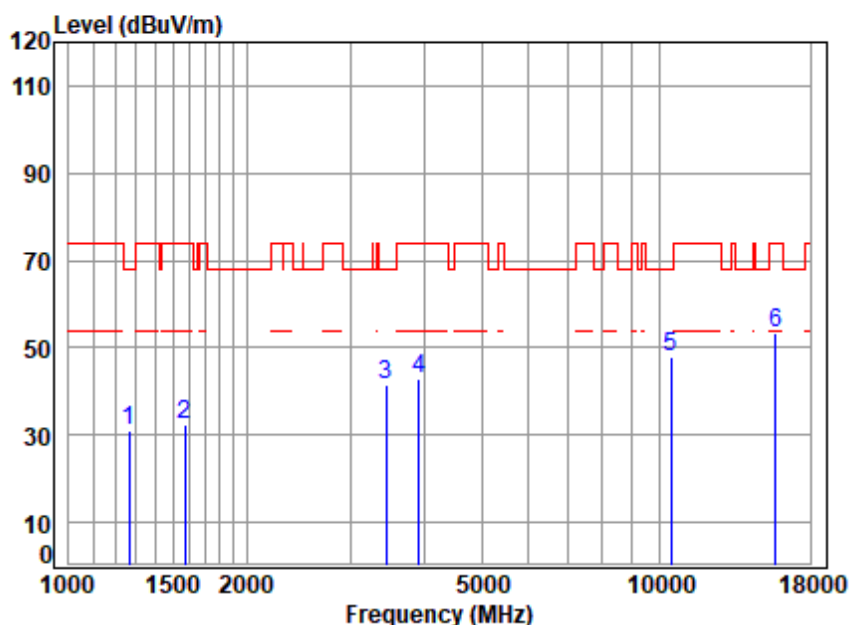


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	4.48	25.04	54.70	56.97	31.79	68.20	-36.41	peak
2	1587.975	4.71	26.85	54.80	56.24	33.00	74.00	-41.00	peak
3	3196.094	6.84	32.87	54.85	55.25	40.11	68.20	-28.09	peak
4	4367.058	8.04	34.54	54.26	55.08	43.40	74.00	-30.60	peak
5	10400.000	11.82	37.10	53.12	53.13	48.93	68.20	-19.27	peak
6	15600.000	14.88	41.10	52.11	48.59	52.46	74.00	-21.54	peak



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

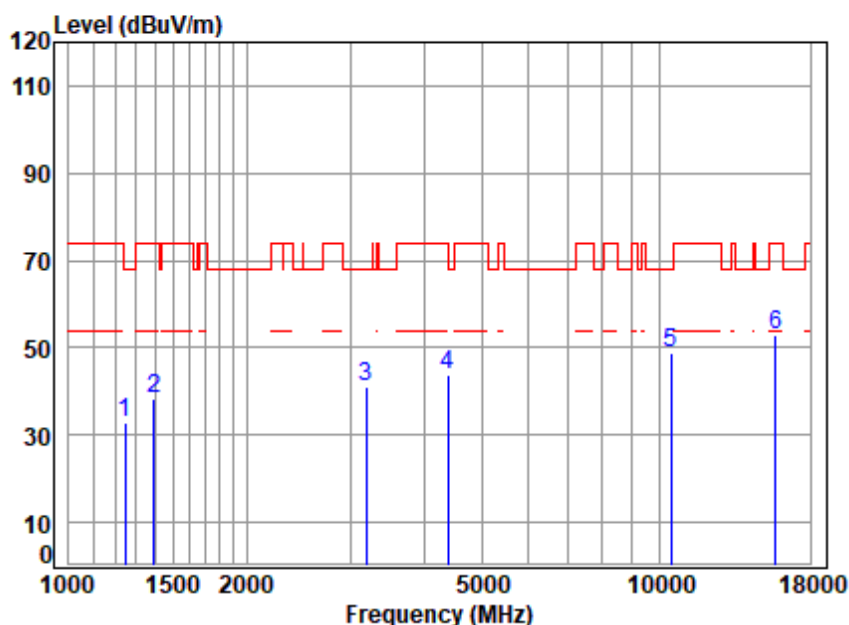


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.48	25.00	54.70	56.40	31.18	68.20	-37.02	peak
2	1574.265	4.67	26.90	54.80	55.50	32.27	74.00	-41.73	peak
3	3445.535	6.91	31.85	54.66	57.26	41.36	68.20	-26.84	peak
4	3912.809	8.46	33.72	54.35	55.28	43.11	74.00	-30.89	peak
5	10480.000	11.95	37.26	53.10	51.89	48.00	68.20	-20.20	peak
6	15720.000	15.03	41.22	52.02	49.36	53.59	74.00	-20.41	peak



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

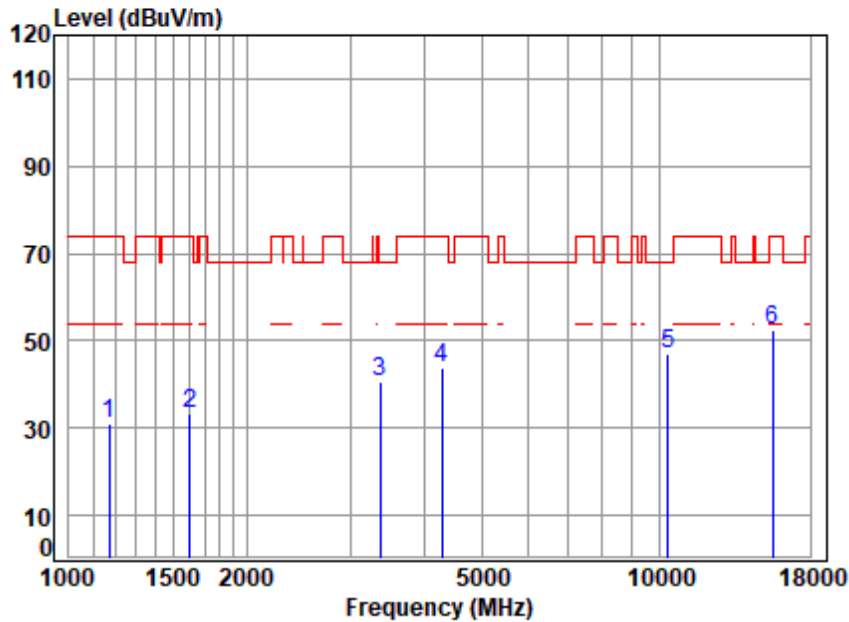


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	4.48	25.04	54.70	57.89	32.71	68.20	-35.49	peak
2	1394.300	4.48	24.59	54.74	64.15	38.48	74.00	-35.52	peak
3	3186.869	6.83	32.79	54.85	56.13	40.90	68.20	-27.30	peak
4	4392.376	7.99	34.74	54.26	55.33	43.80	74.00	-30.20	peak
5	10480.000	11.95	37.26	53.10	52.89	49.00	68.20	-19.20	peak
6	15720.000	15.03	41.22	52.02	48.82	53.05	74.00	-20.95	peak



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

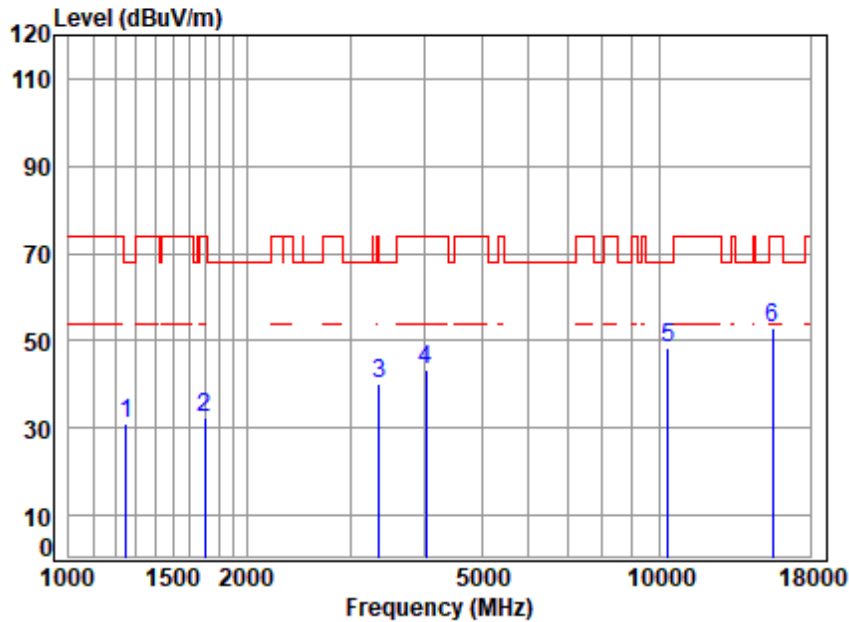


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AX20

		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	1172.303	4.48	24.12	54.67	57.25	31.18	74.00	-42.82	peak
2	1606.441	4.75	26.74	54.81	56.80	33.48	74.00	-40.52	peak
3	3366.778	6.89	32.20	54.72	56.06	40.43	68.20	-27.77	peak
4	4291.977	8.18	33.97	54.27	55.84	43.72	74.00	-30.28	peak
5	10360.000	11.75	37.10	53.13	51.38	47.10	68.20	-21.10	peak
6	15540.000	14.81	41.10	52.16	48.84	52.59	74.00	-21.41	peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	4.48	25.08	54.70	56.25	31.11	68.20	-37.09	peak
2	1702.042	4.99	26.22	54.83	55.85	32.23	74.00	-41.77	peak
3	3357.061	6.89	32.14	54.73	55.64	39.94	74.00	-34.06	peak
4	4027.554	8.70	32.72	54.30	56.17	43.29	74.00	-30.71	peak
5	10360.000	11.75	37.10	53.13	52.54	48.26	68.20	-19.94	peak
6	15540.000	14.81	41.10	52.16	49.03	52.78	74.00	-21.22	peak



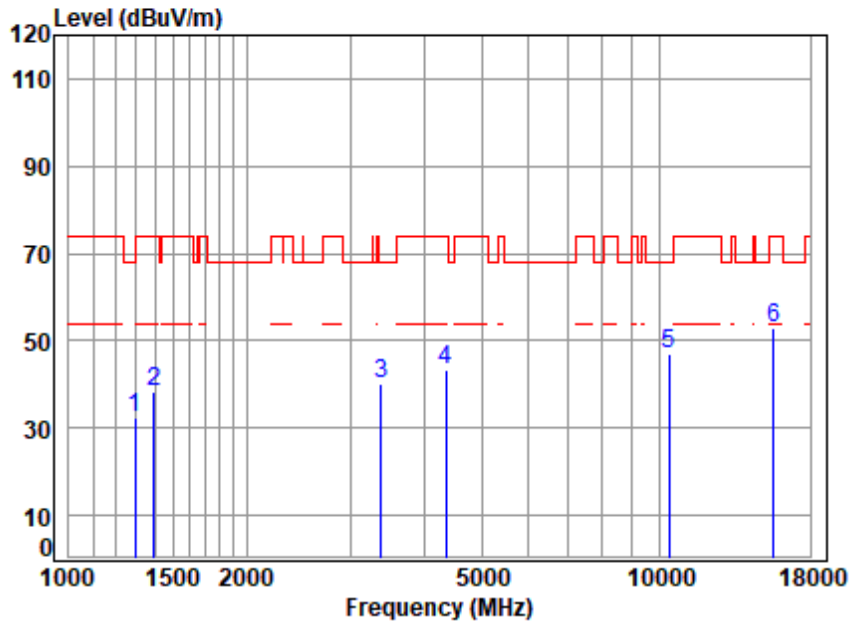
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 36 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5200 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.48	24.82	54.71	57.93	32.52	68.20	-35.68	peak
2	1394.300	4.48	24.59	54.74	64.02	38.35	74.00	-35.65	peak
3	3386.297	6.90	32.32	54.71	55.72	40.23	68.20	-27.97	peak
4	4354.454	8.06	34.44	54.26	55.01	43.25	74.00	-30.75	peak
5	10400.000	11.82	37.10	53.12	51.24	47.04	68.20	-21.16	peak
6	p15600.000	14.88	41.10	52.11	49.26	53.13	74.00	-20.87	peak



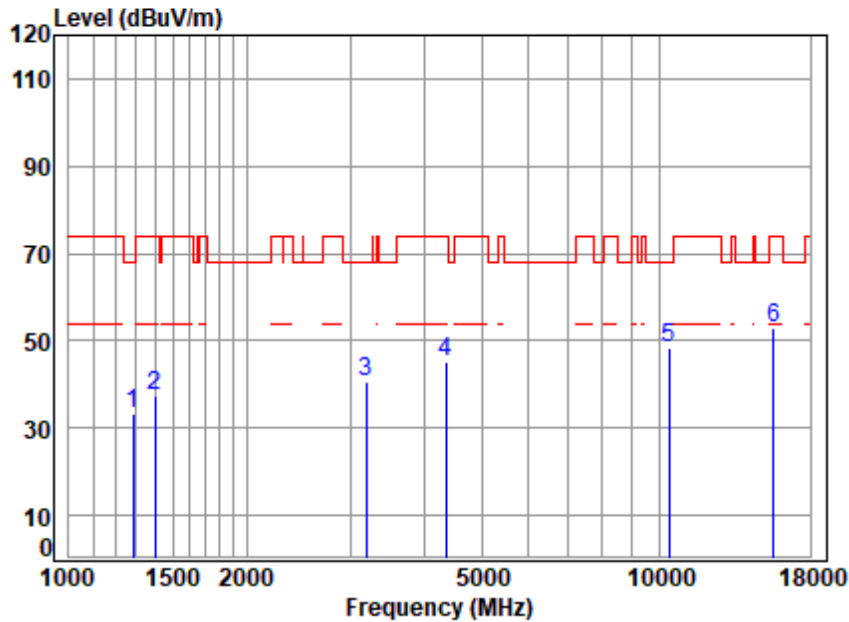
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

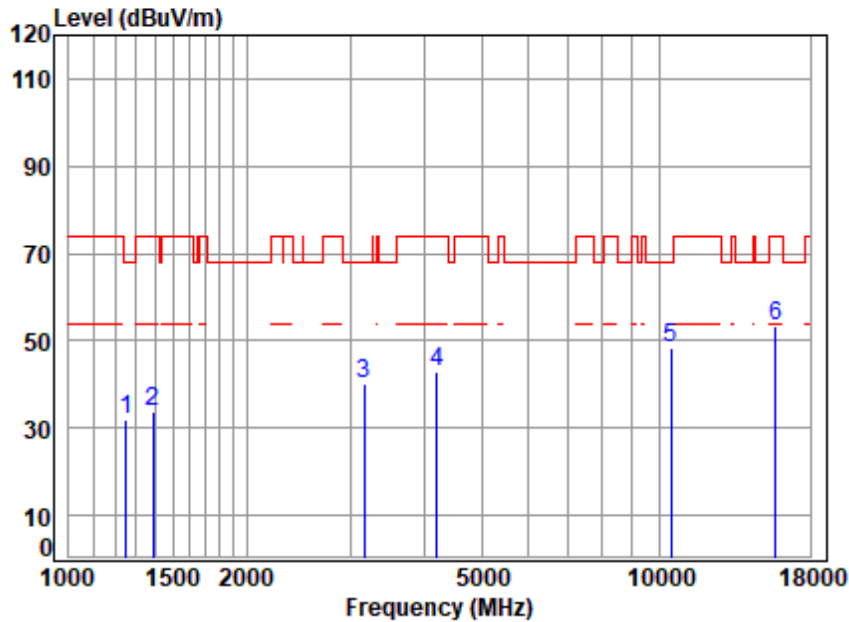


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5200 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.48	24.88	54.71	58.52	33.17	68.20	-35.03	peak
2	1398.336	4.48	24.60	54.75	63.12	37.45	74.00	-36.55	peak
3	3186.869	6.83	32.79	54.85	56.04	40.81	68.20	-27.39	peak
4	4354.454	8.06	34.44	54.26	56.71	44.95	74.00	-29.05	peak
5	10400.000	11.82	37.10	53.12	52.50	48.30	68.20	-19.90	peak
6	15600.000	14.88	41.10	52.11	49.14	53.01	74.00	-20.99	peak



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	4.48	25.08	54.70	56.88	31.74	68.20	-36.46	peak
2	1390.276	4.48	24.58	54.74	59.60	33.92	74.00	-40.08	peak
3	3168.500	6.83	32.65	54.87	55.39	40.00	68.20	-28.20	peak
4	4193.872	8.37	33.80	54.28	55.10	42.99	74.00	-31.01	peak
5	10480.000	11.95	37.26	53.10	52.48	48.59	68.20	-19.61	peak
6	15720.000	15.03	41.22	52.02	49.36	53.59	74.00	-20.41	peak



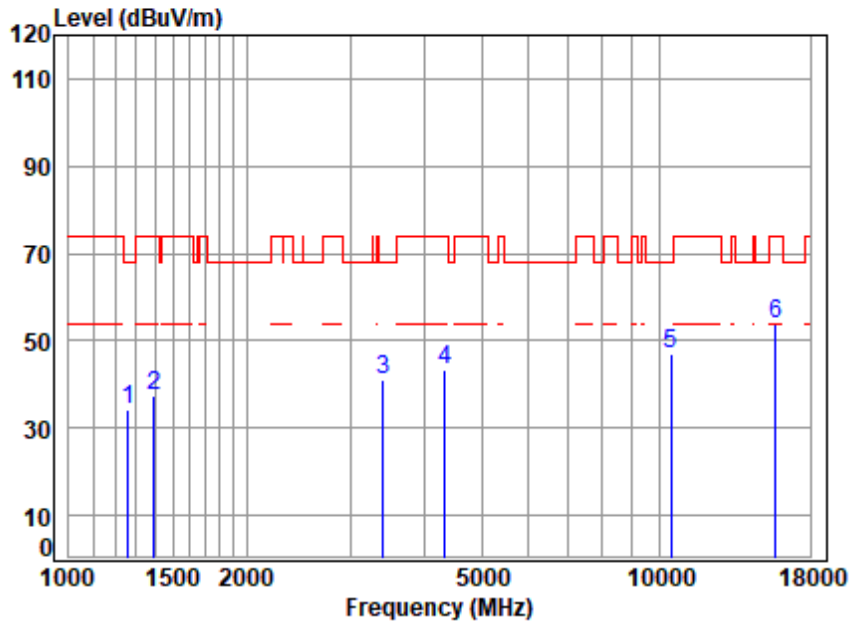
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 39 of 281

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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.48	25.04	54.70	59.29	34.11	68.20	-34.09	peak
2	1394.300	4.48	24.59	54.74	63.07	37.40	74.00	-36.60	peak
3	3405.929	6.90	32.33	54.69	56.65	41.19	68.20	-27.01	peak
4	4341.886	8.08	34.34	54.26	55.20	43.36	74.00	-30.64	peak
5	10480.000	11.95	37.26	53.10	51.10	47.21	68.20	-20.99	peak
6	p15720.000	15.03	41.22	52.02	49.61	53.84	74.00	-20.16	peak



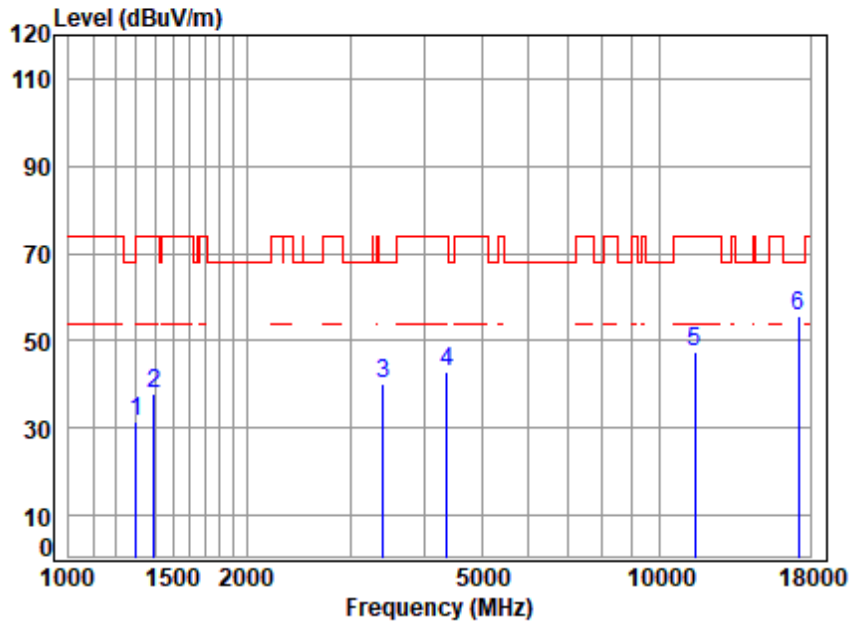
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

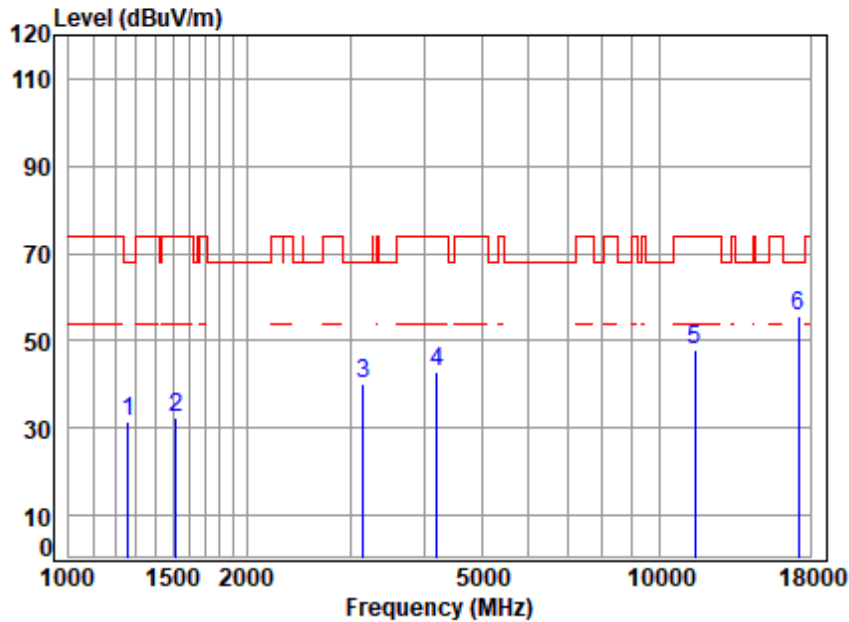


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.48	24.79	54.71	57.01	31.57	74.00	-42.43	peak
2	1394.300	4.48	24.59	54.74	63.67	38.00	74.00	-36.00	peak
3	3405.929	6.90	32.33	54.69	55.59	40.13	68.20	-28.07	peak
4	4367.058	8.04	34.54	54.26	54.62	42.94	74.00	-31.06	peak
5	11490.000	12.65	37.79	53.10	50.07	47.41	74.00	-26.59	peak
6	17235.000	15.95	43.03	52.78	49.53	55.73	68.20	-12.47	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

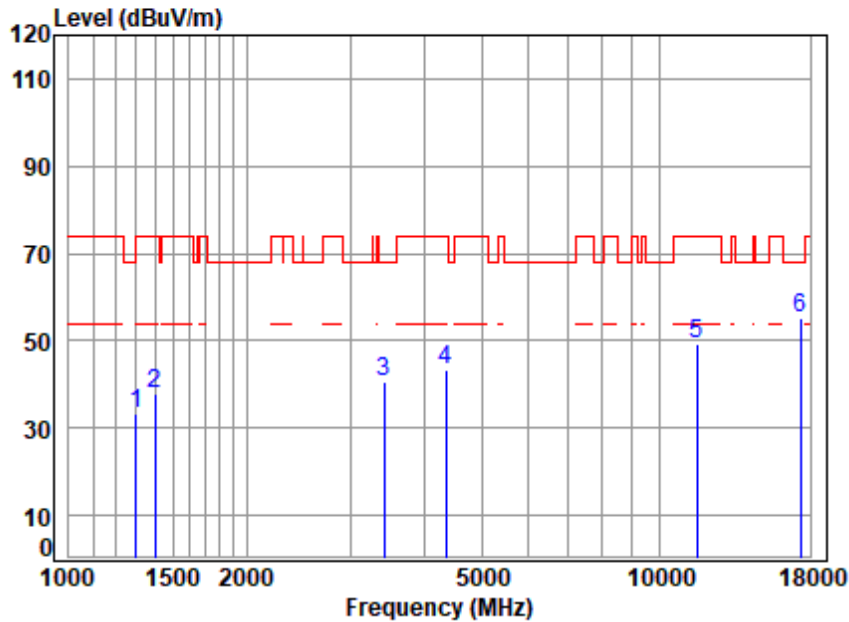


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.48	25.04	54.70	56.47	31.29	68.20	-36.91	peak
2	1516.210	4.52	26.86	54.78	55.74	32.34	74.00	-41.66	peak
3	3150.237	6.82	32.50	54.88	55.62	40.06	68.20	-28.14	peak
4	4193.872	8.37	33.80	54.28	55.21	43.10	74.00	-30.90	peak
5	11490.000	12.65	37.79	53.10	50.45	47.79	74.00	-26.21	peak
6	p17235.000	15.95	43.03	52.78	49.42	55.62	68.20	-12.58	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

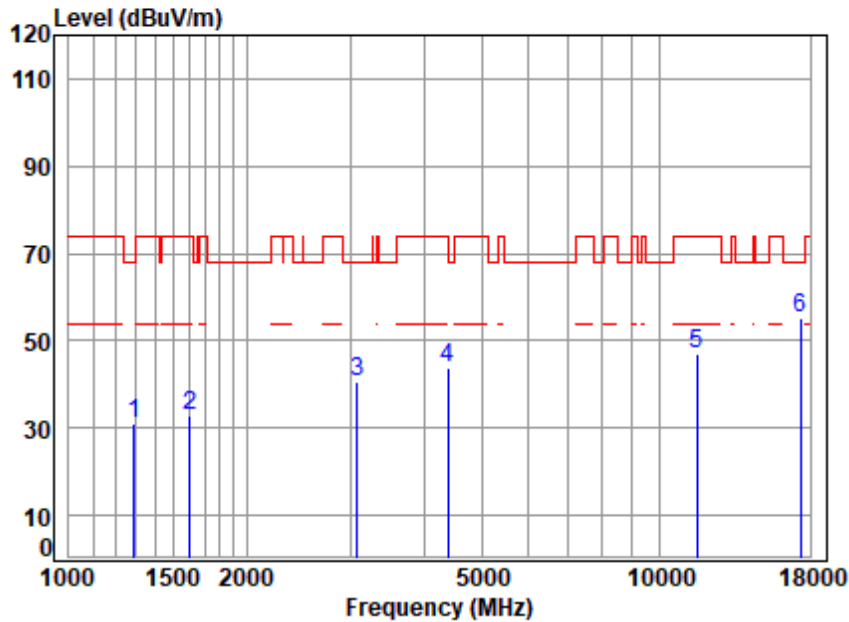


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.48	24.79	54.71	58.70	33.26	74.00	-40.74	peak
2	1398.336	4.48	24.60	54.75	63.75	38.08	74.00	-35.92	peak
3	3415.787	6.90	32.21	54.68	56.06	40.49	68.20	-27.71	peak
4	4354.454	8.06	34.44	54.26	54.95	43.19	74.00	-30.81	peak
5	11570.000	12.71	37.73	53.12	52.04	49.36	74.00	-24.64	peak
6	17355.000	16.06	43.26	52.72	48.63	55.23	68.20	-12.97	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

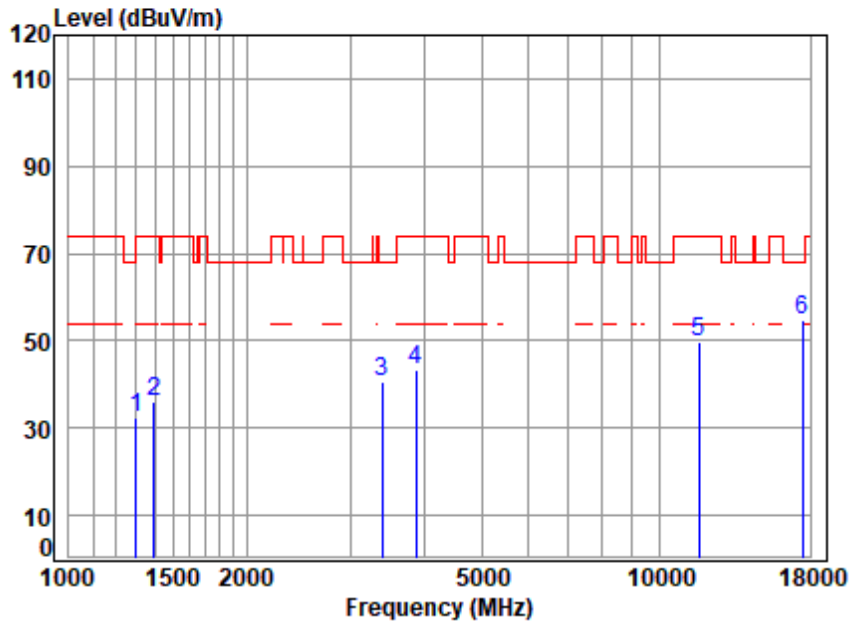


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.48	24.86	54.71	56.18	30.81	68.20	-37.39	peak
2	1606.441	4.75	26.74	54.81	56.12	32.80	74.00	-41.20	peak
3	3078.229	6.80	30.99	54.94	57.71	40.56	68.20	-27.64	peak
4	4392.376	7.99	34.74	54.26	55.41	43.88	74.00	-30.12	peak
5	11570.000	12.71	37.73	53.12	49.90	47.22	74.00	-26.78	peak
6	17355.000	16.06	43.26	52.72	48.71	55.31	68.20	-12.89	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

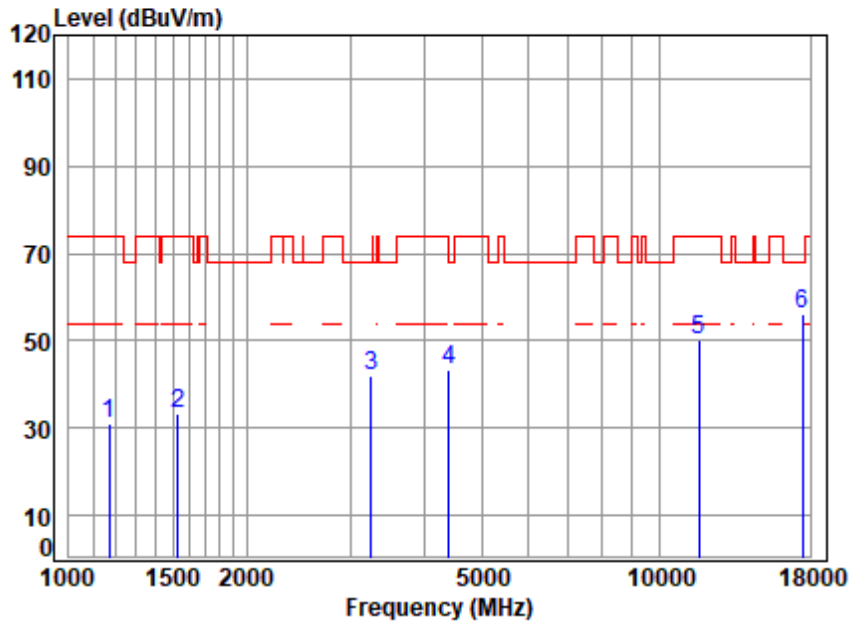


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.48	24.79	54.71	57.86	32.42	74.00	-41.58	peak
2	1394.300	4.48	24.59	54.74	61.63	35.96	74.00	-38.04	peak
3	3396.098	6.90	32.38	54.70	55.84	40.42	68.20	-27.78	peak
4	3867.831	8.30	33.35	54.38	56.02	43.29	74.00	-30.71	peak
5	11650.000	12.76	37.80	53.13	52.24	49.67	74.00	-24.33	peak
6	17475.000	16.17	43.40	52.66	47.96	54.87	68.20	-13.33	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

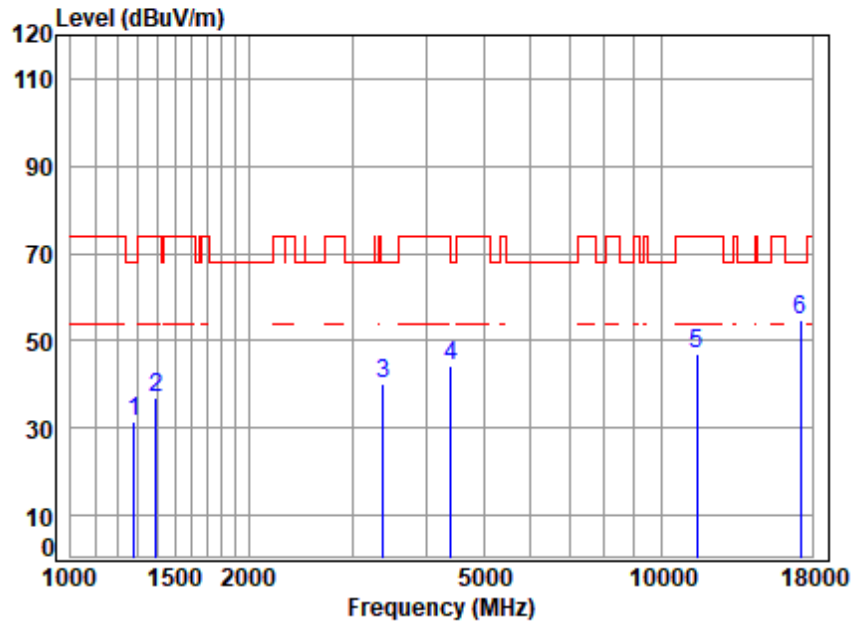


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1172.303	4.48	24.12	54.67	57.06	30.99	74.00	-43.01	peak
2	1529.414	4.56	26.92	54.78	56.69	33.39	74.00	-40.61	peak
3	3252.005	6.85	32.06	54.80	57.82	41.93	68.20	-26.27	peak
4	4405.090	7.97	34.74	54.26	54.91	43.36	68.20	-24.84	peak
5	11650.000	12.76	37.80	53.13	52.60	50.03	74.00	-23.97	peak
6	p17475.000	16.17	43.40	52.66	49.16	56.07	68.20	-12.13	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

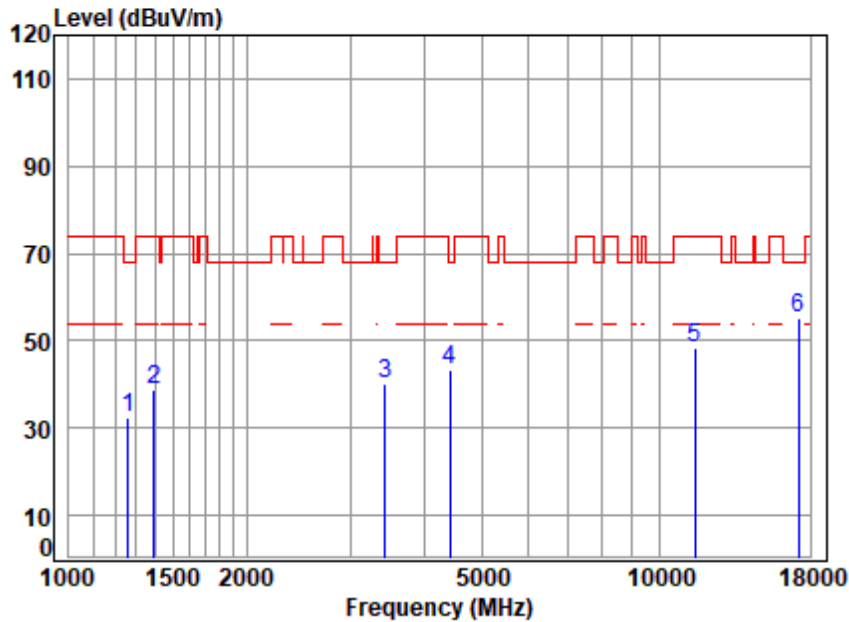


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	4.48	24.93	54.71	56.57	31.27	68.20	-36.93	peak
2	1394.300	4.48	24.59	54.74	62.62	36.95	74.00	-37.05	peak
3	3376.523	6.89	32.26	54.71	55.55	39.99	68.20	-28.21	peak
4	4405.090	7.97	34.74	54.26	55.69	44.14	68.20	-24.06	peak
5	11490.000	12.65	37.79	53.10	49.81	47.15	74.00	-26.85	peak
6	p17235.000	15.95	43.03	52.78	48.54	54.74	68.20	-13.46	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.48	25.04	54.70	57.75	32.57	68.20	-35.63	peak
2	1394.300	4.48	24.59	54.74	64.55	38.88	74.00	-35.12	peak
3	3435.590	6.91	31.97	54.67	56.14	40.35	68.20	-27.85	peak
4	4417.841	7.94	34.59	54.26	55.00	43.27	68.20	-24.93	peak
5	11490.000	12.65	37.79	53.10	50.95	48.29	74.00	-25.71	peak
6	p17235.000	15.95	43.03	52.78	49.00	55.20	68.20	-13.00	peak



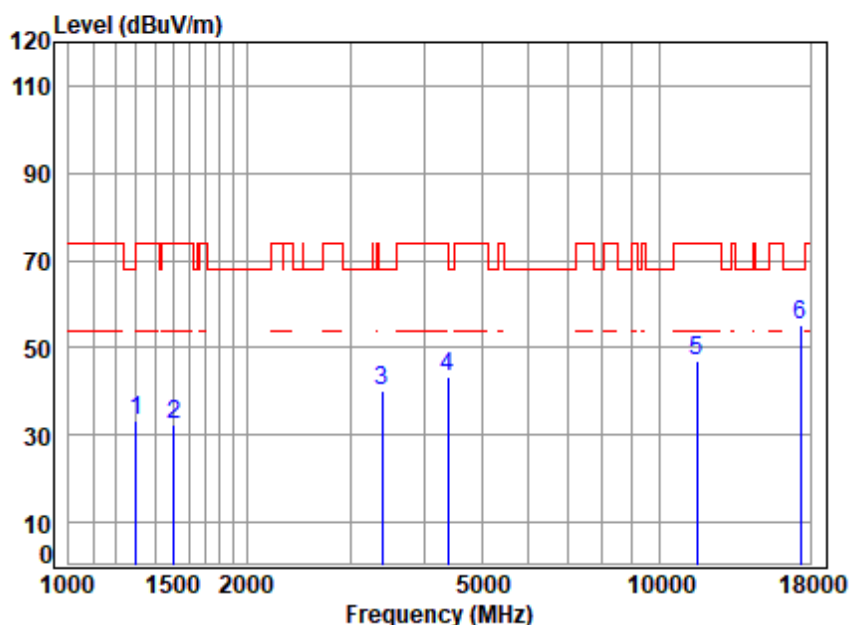
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 48 of 281

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5785 TX RSE
Note : 5G WIFI 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	1300.858	4.48	24.79	54.71	58.97	33.53	74.00	-40.47	peak
2	1507.470	4.50	26.83	54.78	56.02	32.57	74.00	-41.43	peak
3	3396.098	6.90	32.38	54.70	55.41	39.99	68.20	-28.21	peak
4	4379.699	8.01	34.64	54.26	55.07	43.46	74.00	-30.54	peak
5	11570.000	12.71	37.73	53.12	49.59	46.91	74.00	-27.09	peak
6	p17355.000	16.06	43.26	52.72	48.64	55.24	68.20	-12.96	peak



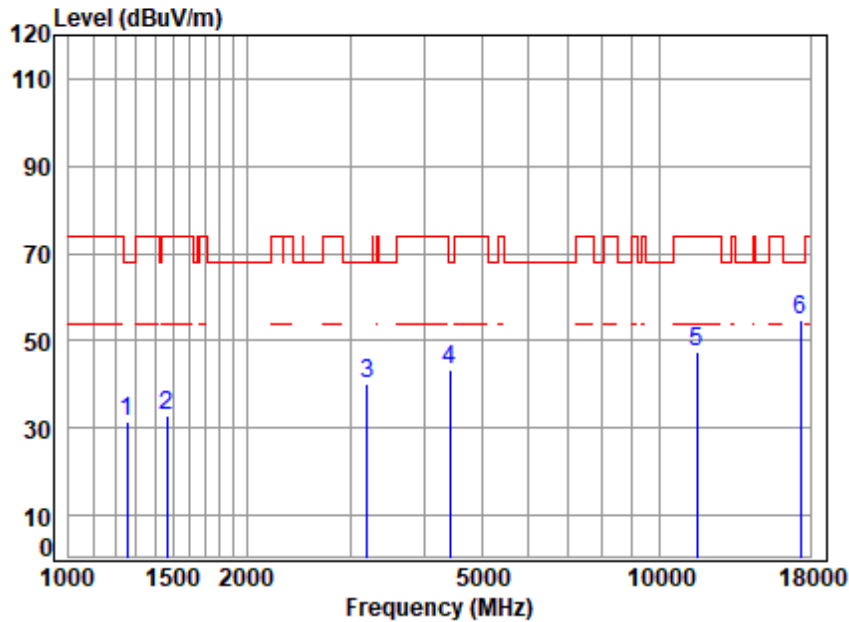
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5785 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	4.48	25.06	54.70	56.68	31.52	68.20	-36.68	peak
2	1468.761	4.48	25.93	54.77	57.34	32.98	74.00	-41.02	peak
3	3205.345	6.84	32.81	54.84	55.29	40.10	68.20	-28.10	peak
4	4417.841	7.94	34.59	54.26	55.11	43.38	68.20	-24.82	peak
5	11570.000	12.71	37.73	53.12	50.22	47.54	74.00	-26.46	peak
6	17355.000	16.06	43.26	52.72	48.23	54.83	68.20	-13.37	peak



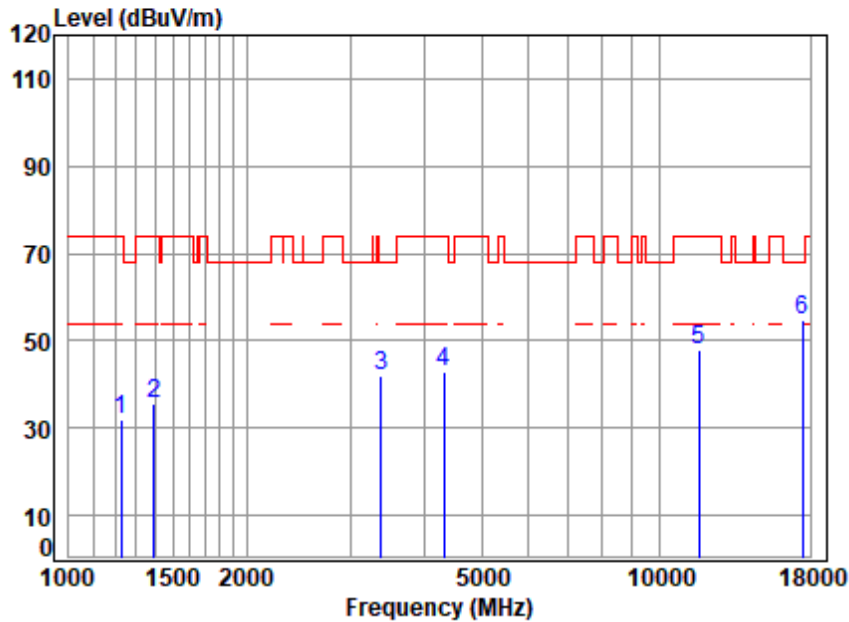
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 50 of 281

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	4.48	24.79	54.69	57.18	31.76	74.00	-42.24	peak
2	1394.300	4.48	24.59	54.74	61.47	35.80	74.00	-38.20	peak
3	3386.297	6.90	32.32	54.71	57.30	41.81	68.20	-26.39	peak
4	4316.859	8.13	34.13	54.27	54.92	42.91	74.00	-31.09	peak
5	11650.000	12.76	37.80	53.13	50.66	48.09	74.00	-25.91	peak
6	17475.000	16.17	43.40	52.66	48.06	54.97	68.20	-13.23	peak



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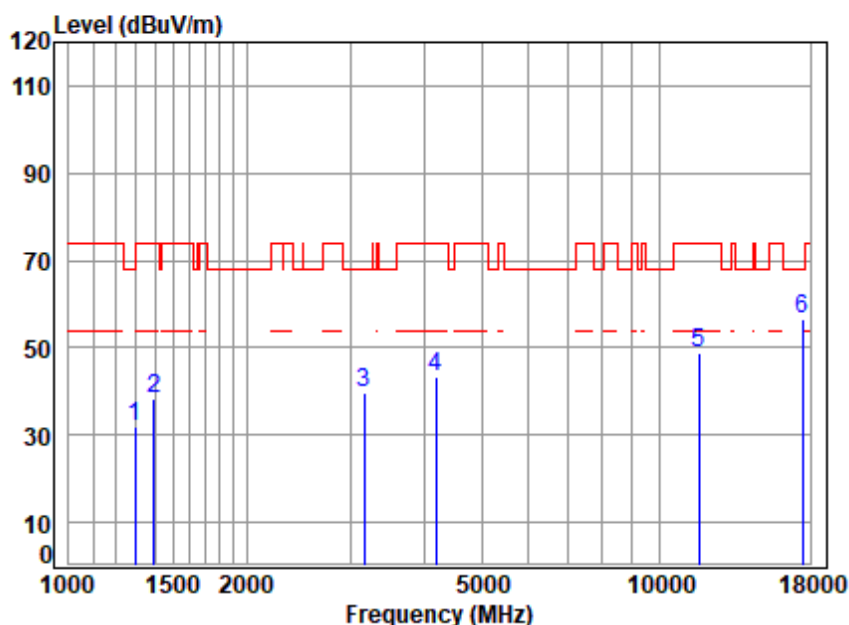
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 51 of 281

Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.48	24.82	54.71	57.47	32.06	68.20	-36.14	peak
2	1394.300	4.48	24.59	54.74	63.81	38.14	74.00	-35.86	peak
3	3159.355	6.82	32.57	54.87	55.10	39.62	68.20	-28.58	peak
4	4181.768	8.39	33.80	54.28	55.50	43.41	74.00	-30.59	peak
5	11650.000	12.76	37.80	53.13	51.42	48.85	74.00	-25.15	peak
6	p17475.000	16.17	43.40	52.66	49.62	56.53	68.20	-11.67	peak



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

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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.4 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2020) 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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

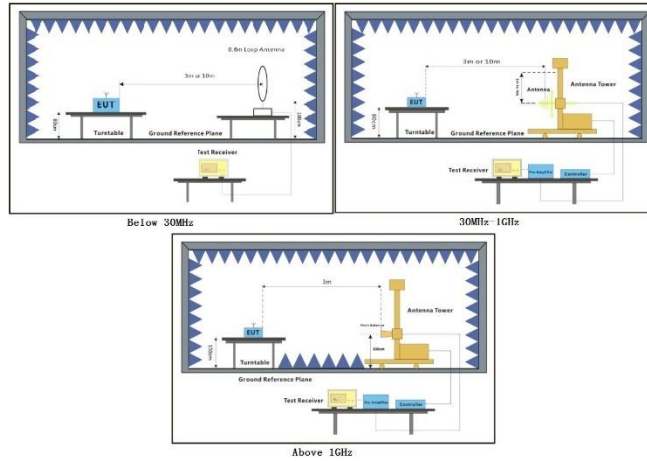


7.4.2 Test Mode Description

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.
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.
Final test	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



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7.4.4 Measurement Procedure and Data

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

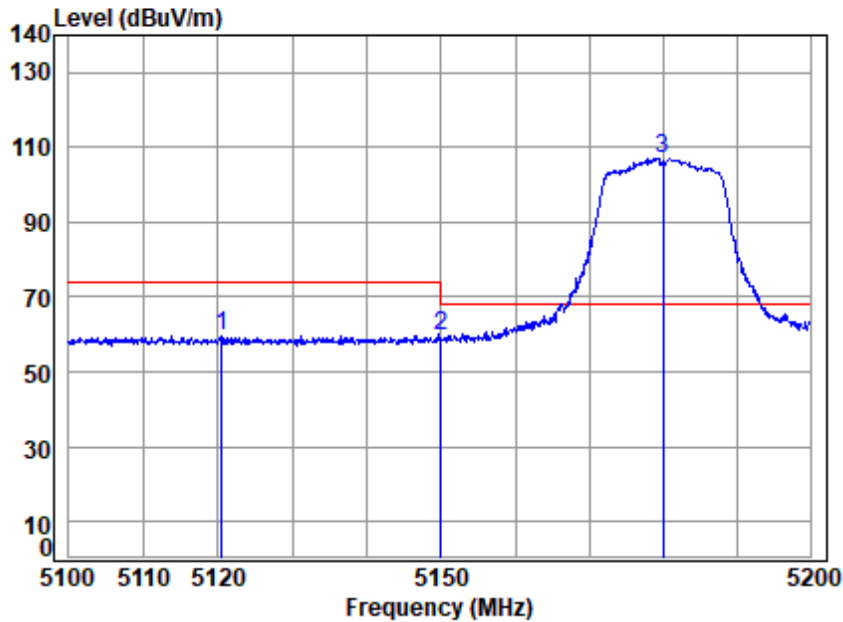
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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

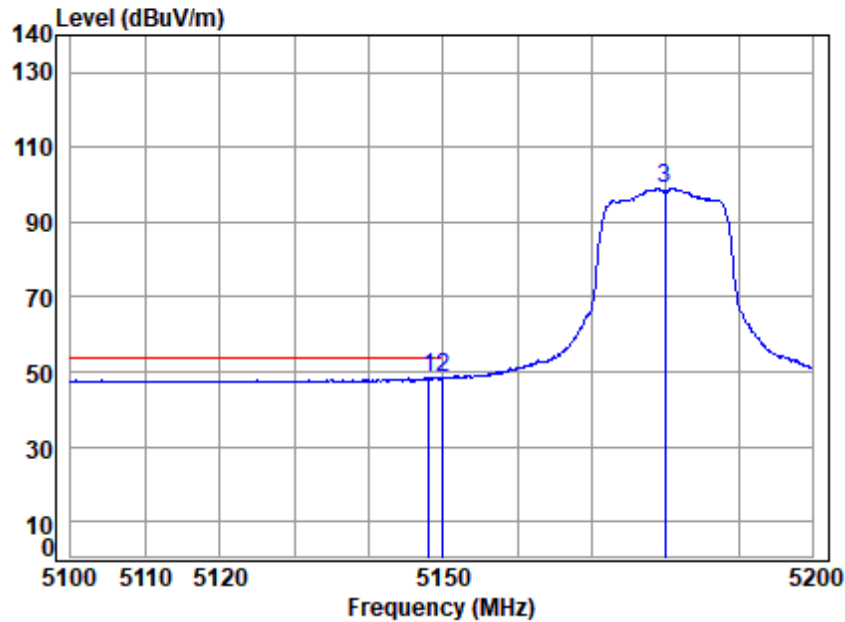


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5120.441	18.39	33.96	31.27	38.65	59.73	74.00	-14.27	peak
2	5149.980	18.47	33.90	31.28	38.32	59.41	74.00	-14.59	peak
3 p	5180.000	18.56	33.96	31.30	85.94	107.16	68.20	38.96	peak



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

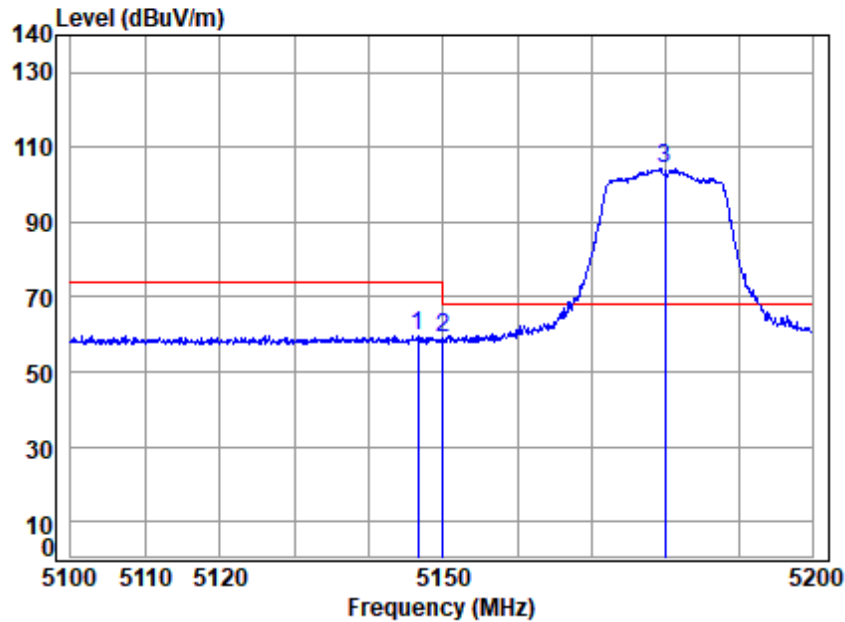


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5148.058	18.47	33.90	31.28	27.41	48.50	54.00	-5.50	Average
2 5149.980	18.47	33.90	31.28	27.26	48.35	54.00	-5.65	Average
3 5180.000	18.56	33.96	31.30	77.83	99.05	-----	-----	Average



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

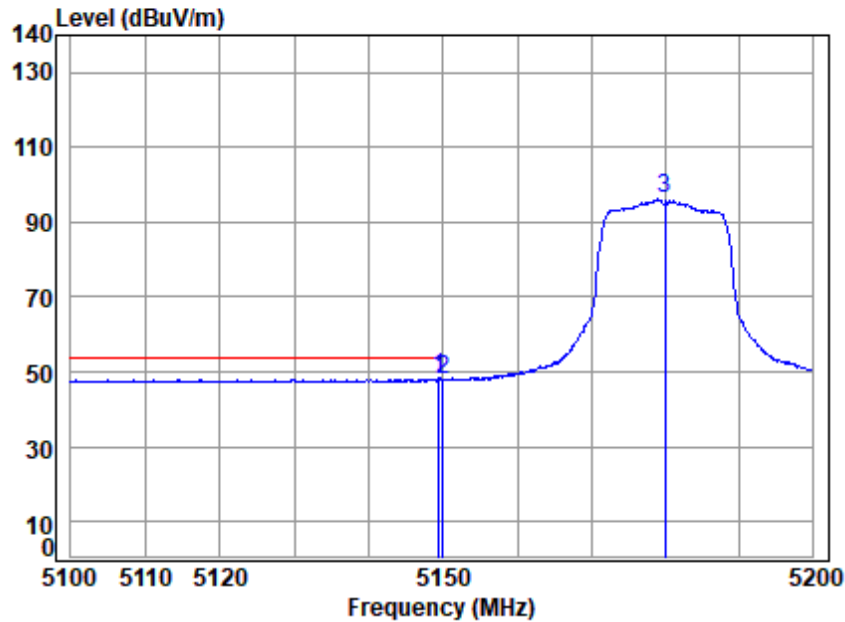


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.558	18.46	33.91	31.28	38.66	59.75	74.00	-14.25	Peak
2	5149.980	18.47	33.90	31.28	37.74	58.83	74.00	-15.17	Peak
3 p	5180.000	18.56	33.96	31.30	82.94	104.16	68.20	35.96	Peak



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

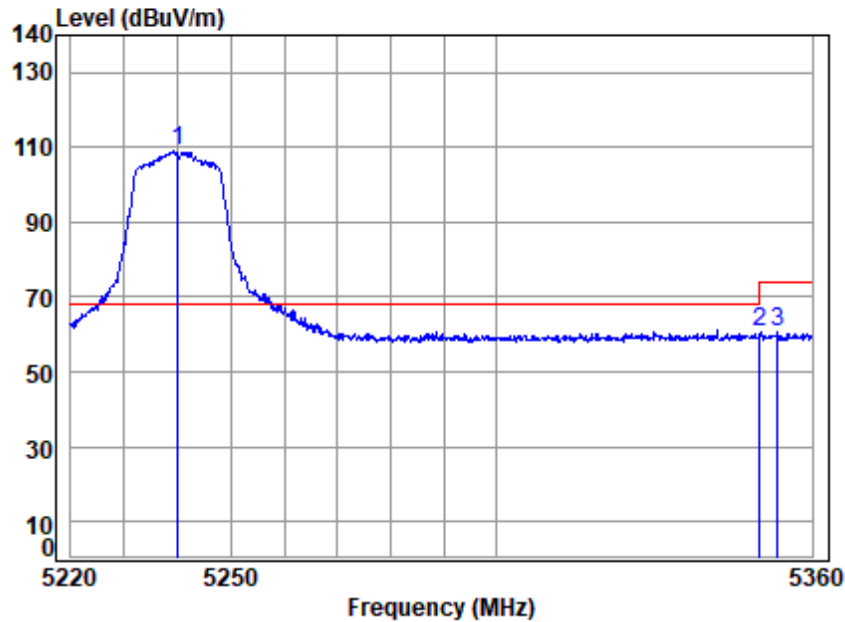


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5149.458	18.47	33.90	31.28	27.18	48.27	54.00	-5.73	Average
2 5149.980	18.47	33.90	31.28	26.98	48.07	54.00	-5.93	Average
3 5180.000	18.56	33.96	31.30	74.87	96.09	-----	-----	Average



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

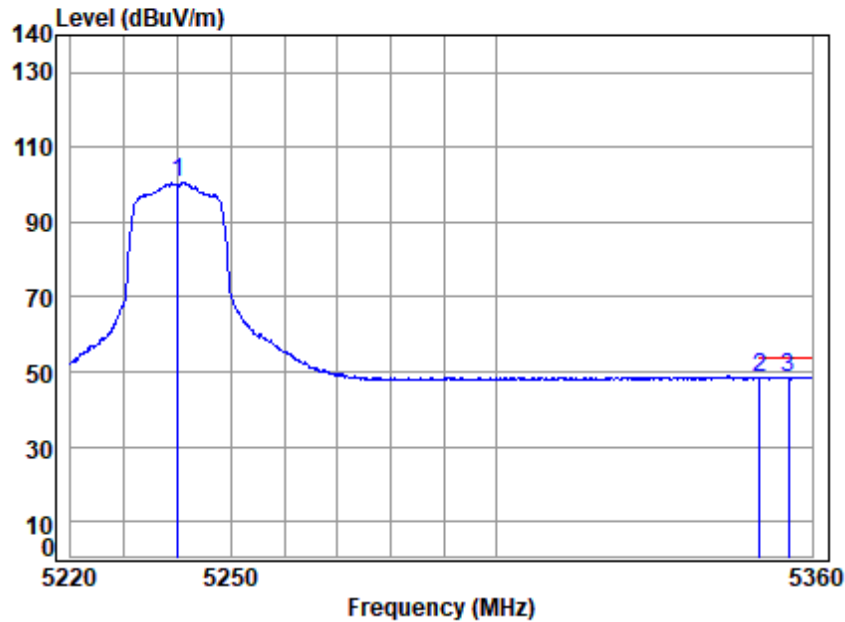


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5240.000	18.72	34.08	31.33	87.41	108.88	68.20	40.68	peak
2	5350.020	19.03	34.40	31.39	38.49	60.53	74.00	-13.47	peak
3	5353.337	19.04	34.41	31.39	38.50	60.56	74.00	-13.44	peak



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

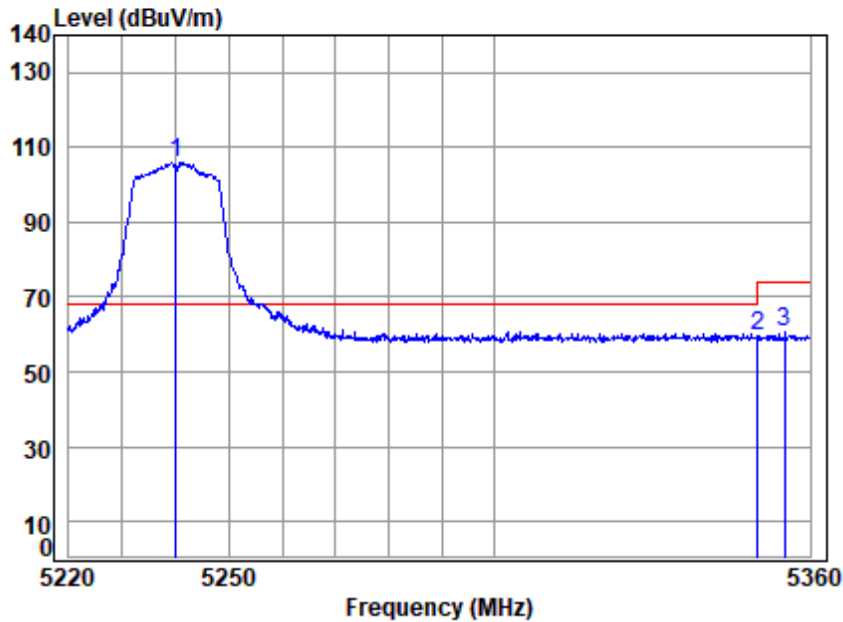


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5240.000	18.72	34.08	31.33	79.01	100.48	-----	-----	Average
2 5350.020	19.03	34.40	31.39	26.36	48.40	54.00	-5.60	Average
3 q 5355.462	19.04	34.42	31.39	26.60	48.67	54.00	-5.33	Average



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

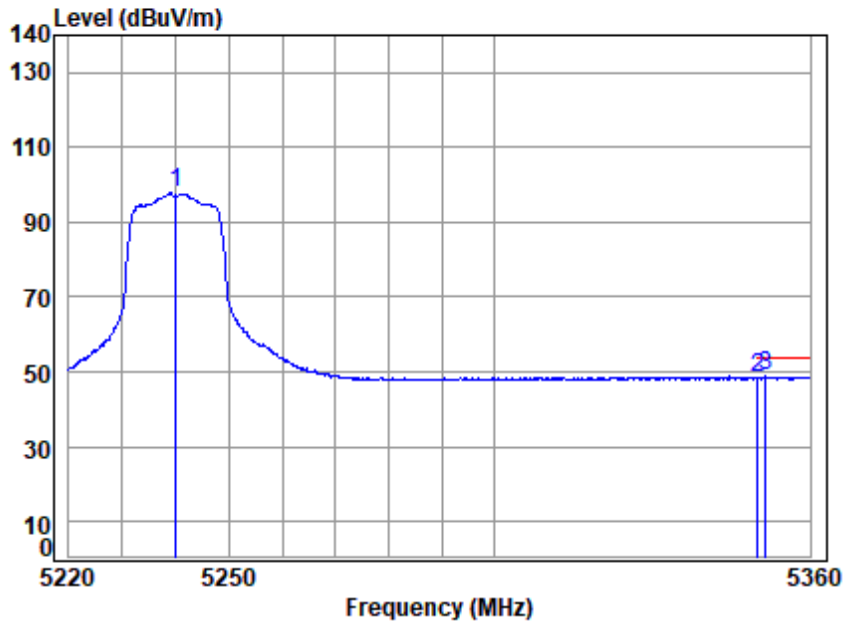


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5240.000	18.72	34.08	31.33	84.70	106.17	68.20	37.97	Peak
2 5350.020	19.03	34.40	31.39	37.47	59.51	74.00	-14.49	Peak
3 5355.179	19.04	34.42	31.39	38.47	60.54	74.00	-13.46	Peak



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

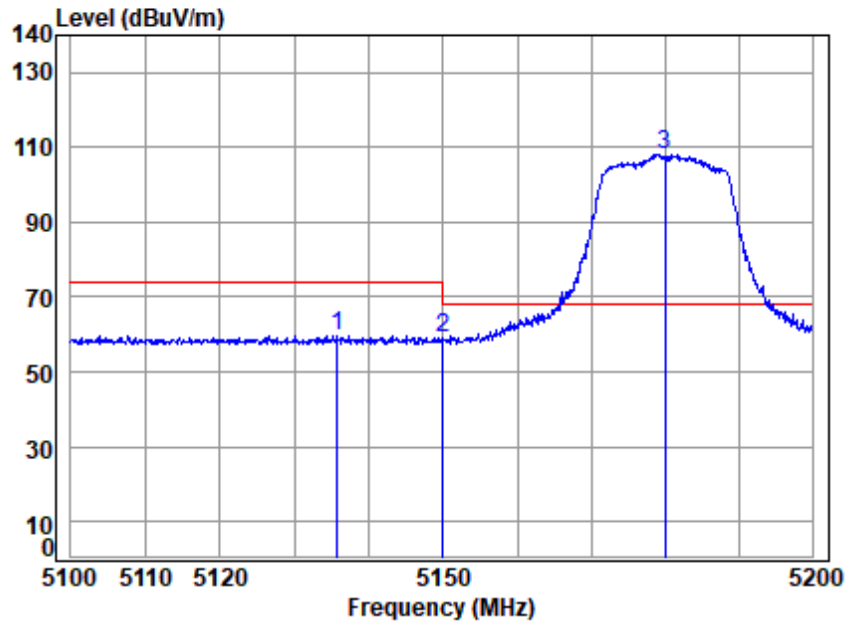


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5240.000	18.72	34.08	31.33	76.24	97.71	-----	-----	Average
2 5350.020	19.03	34.40	31.39	26.35	48.39	54.00	-5.61	Average
3 q 5351.495	19.03	34.41	31.39	26.69	48.74	54.00	-5.26	Average



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

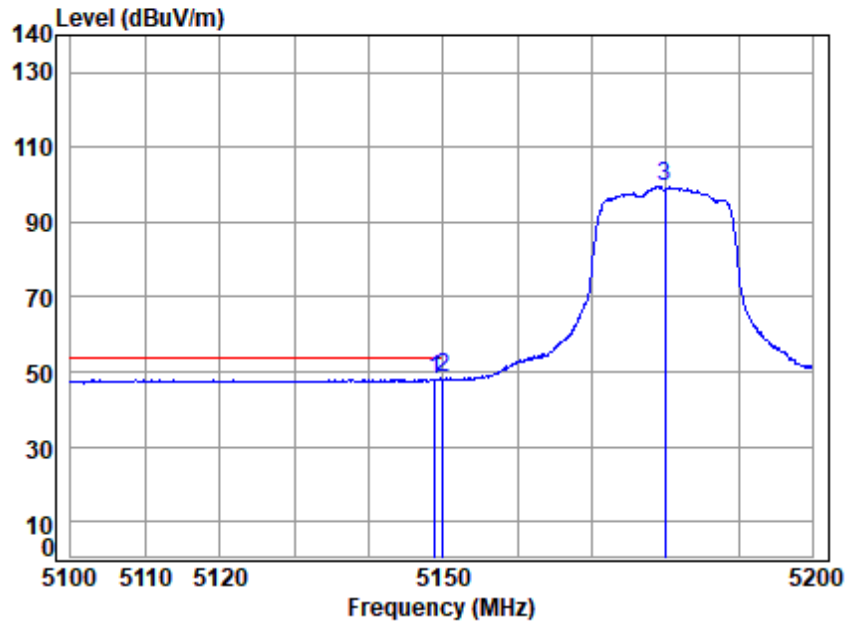


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5135.677	18.43	33.93	31.27	38.66	59.75	74.00	-14.25	peak
2	5149.980	18.47	33.90	31.28	37.89	58.98	74.00	-15.02	peak
3 p	5180.000	18.56	33.96	31.30	86.96	108.18	68.20	39.98	peak



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

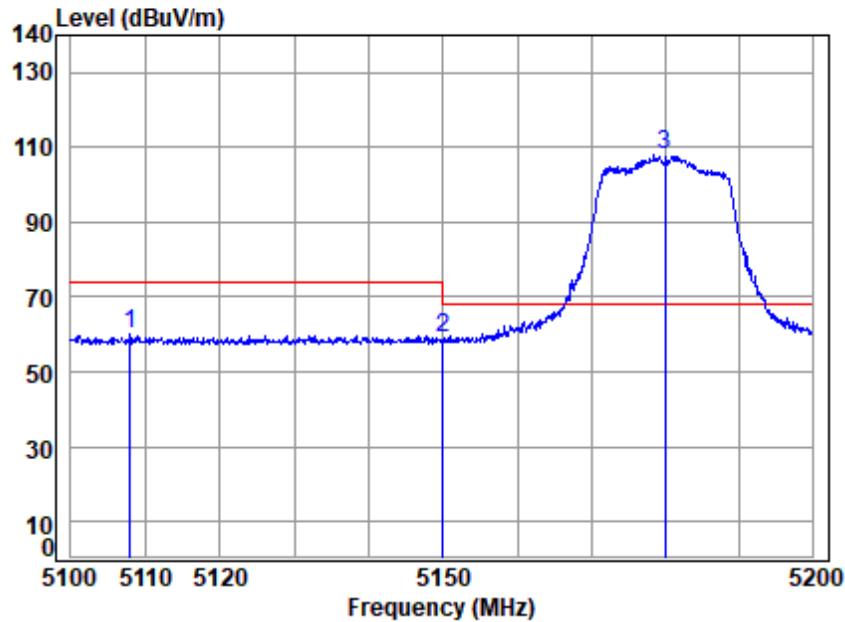


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.857	18.47	33.90	31.28	27.07	48.16	54.00	-5.84 Average
2 q	5149.980	18.47	33.90	31.28	27.30	48.39	54.00	-5.61 Average
3	5180.000	18.56	33.96	31.30	78.29	99.51	-----	----- Average



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

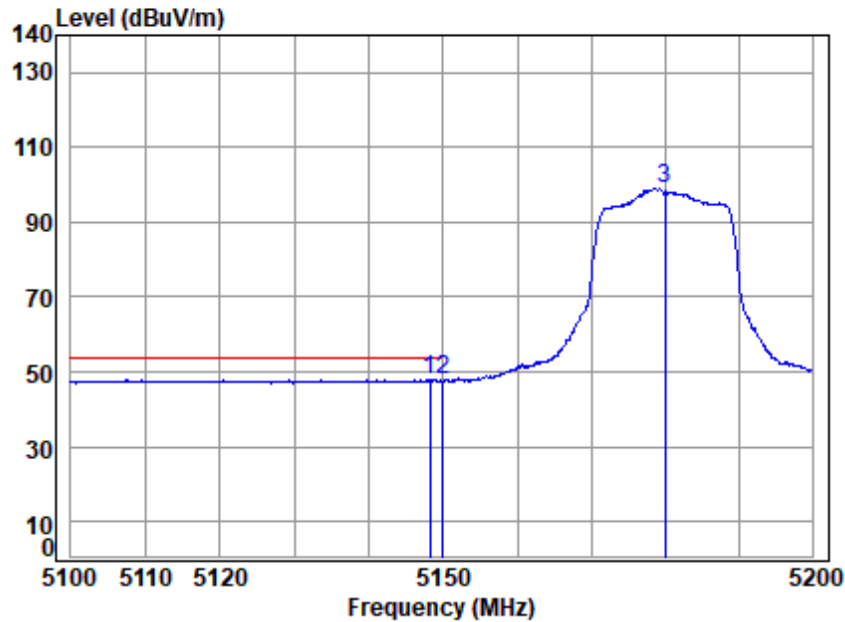


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		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	5107.929	18.35	33.98	31.26	39.00	60.07	74.00	-13.93 Peak
2	5149.980	18.47	33.90	31.28	37.80	58.89	74.00	-15.11 Peak
3 p	5180.000	18.56	33.96	31.30	86.58	107.80	68.20	39.60 Peak



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

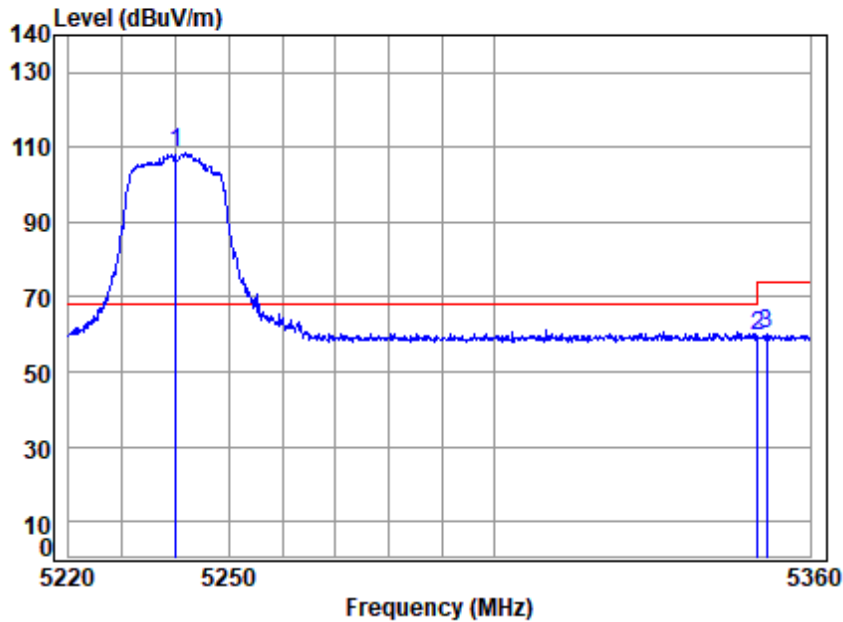


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5148.257	18.47	33.90	31.28	26.86	47.95	54.00	-6.05	Average
2 5149.980	18.47	33.90	31.28	26.67	47.76	54.00	-6.24	Average
3 5180.000	18.56	33.96	31.30	77.84	99.06	-----	-----	Average



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

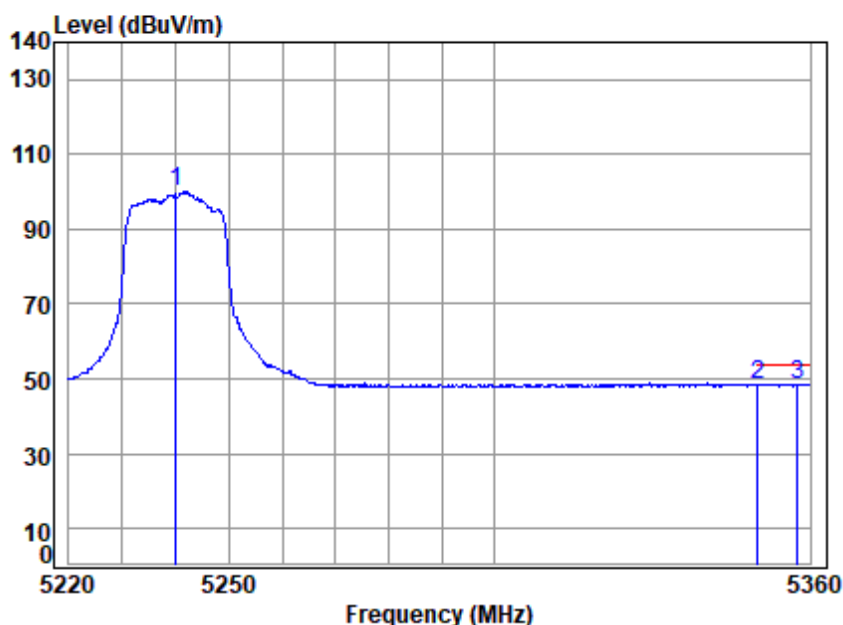
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5240.000	18.72	34.08	31.33	86.89	108.36	68.20	40.16	peak
2	5350.020	19.03	34.40	31.39	37.67	59.71	74.00	-14.29	peak
3	5351.637	19.03	34.41	31.39	37.92	59.97	74.00	-14.03	peak



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

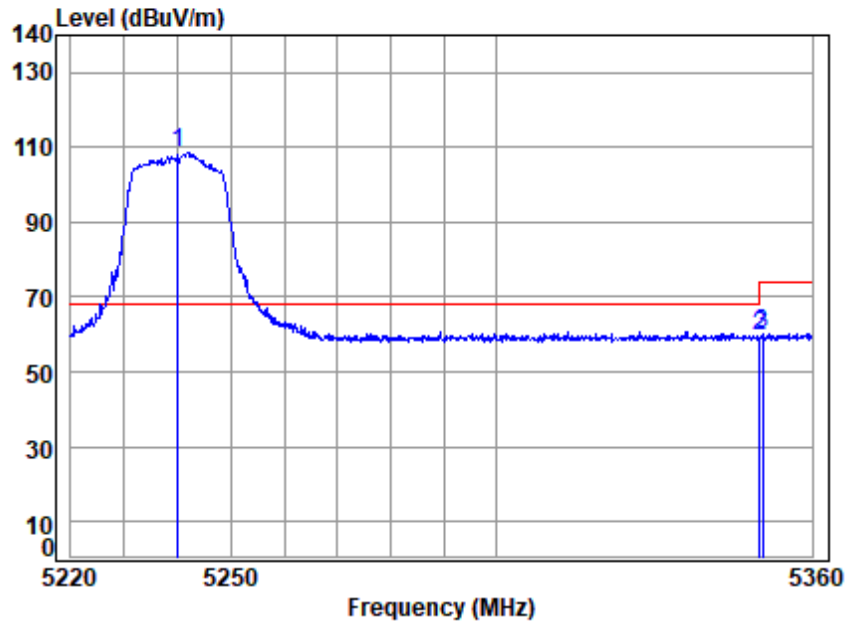


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	18.72	34.08	31.33	78.56	100.03	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.35	48.39	54.00	-5.61 Average
3 q	5357.589	19.05	34.43	31.39	26.56	48.65	54.00	-5.35 Average



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

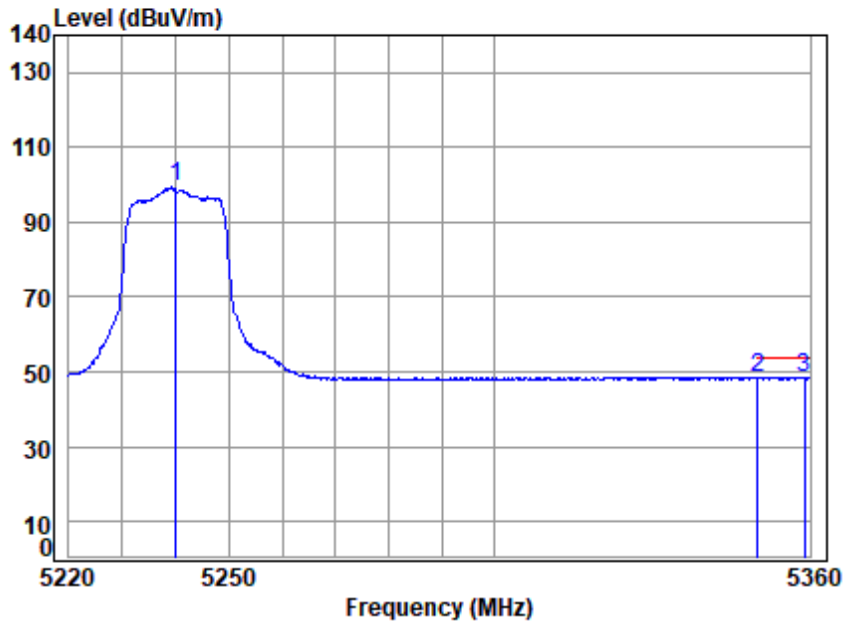


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5240.000	18.72	34.08	31.33	87.05	108.52	68.20	40.32 Peak
2	5350.020	19.03	34.40	31.39	37.60	59.64	74.00	-14.36 Peak
3	5350.504	19.03	34.40	31.39	38.13	60.17	74.00	-13.83 Peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

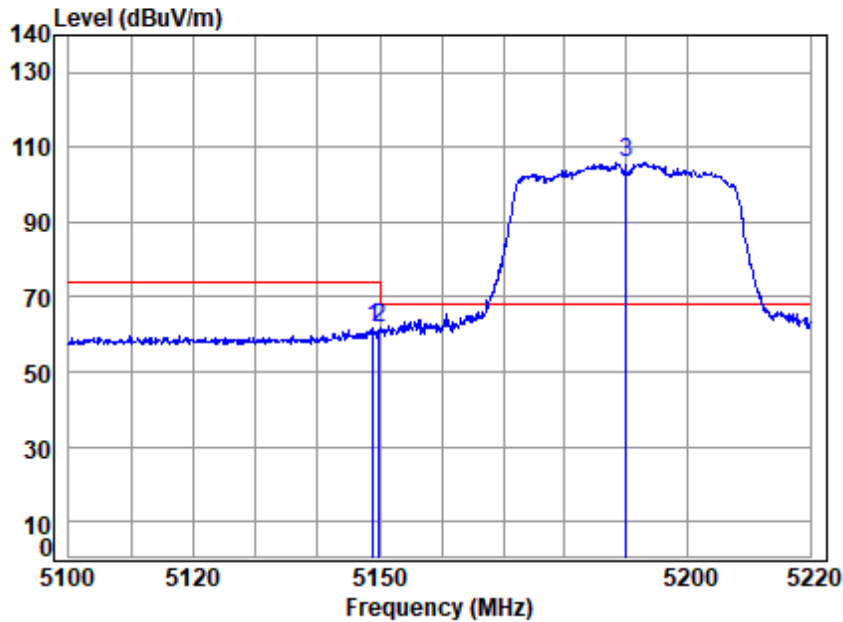
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	18.72	34.08	31.33	77.93	99.40	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.37	48.41	54.00	-5.59 Average
3 q	5358.865	19.05	34.44	31.39	26.46	48.56	54.00	-5.44 Average



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

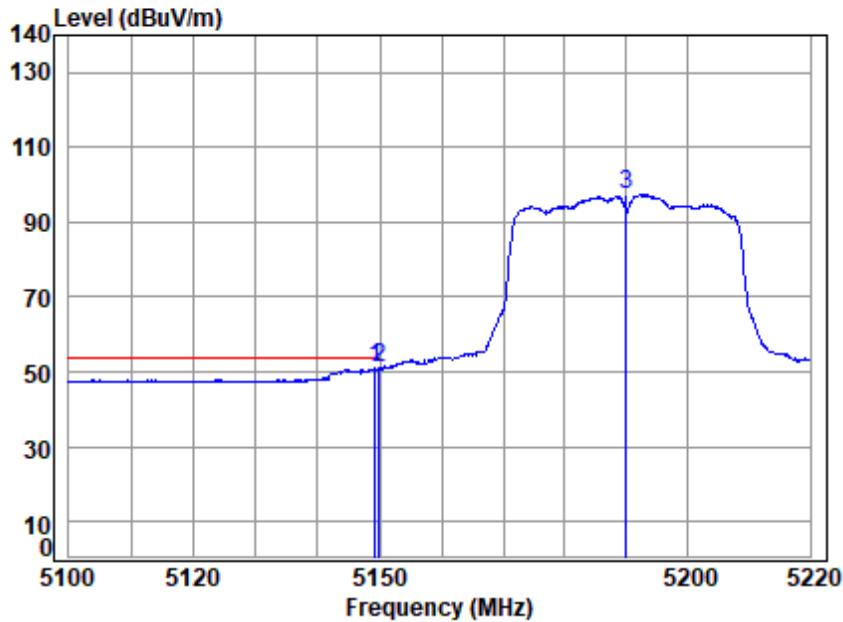


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.863	18.47	33.90	31.28	40.63	61.72	74.00	-12.28 peak
2	5149.980	18.47	33.90	31.28	40.53	61.62	74.00	-12.38 peak
3 p	5190.000	18.58	33.98	31.30	84.62	105.88	68.20	37.68 peak



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

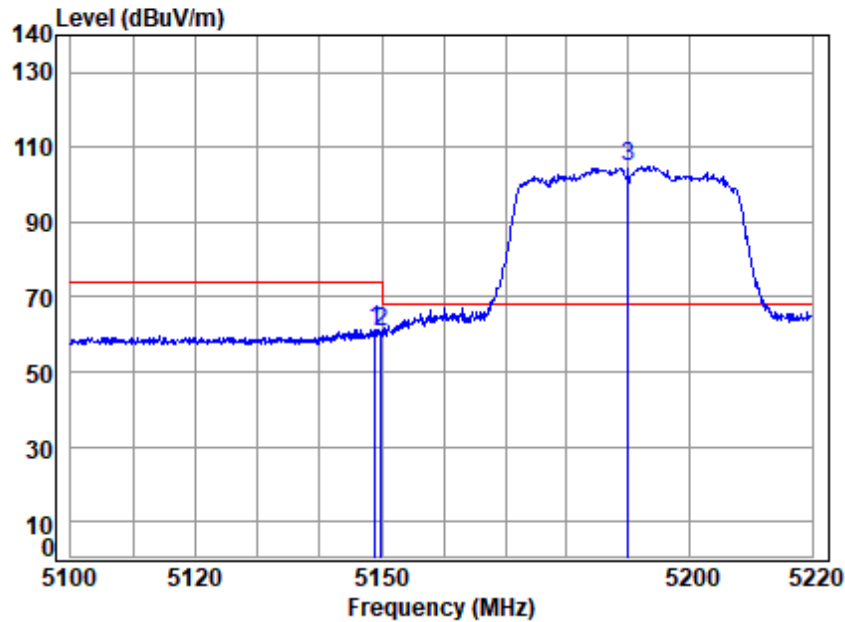


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.342	18.47	33.90	31.28	29.76	50.85	54.00	-3.15 Average
2 q	5149.980	18.47	33.90	31.28	29.90	50.99	54.00	-3.01 Average
3	5190.000	18.58	33.98	31.30	76.02	97.28	-----	----- Average



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

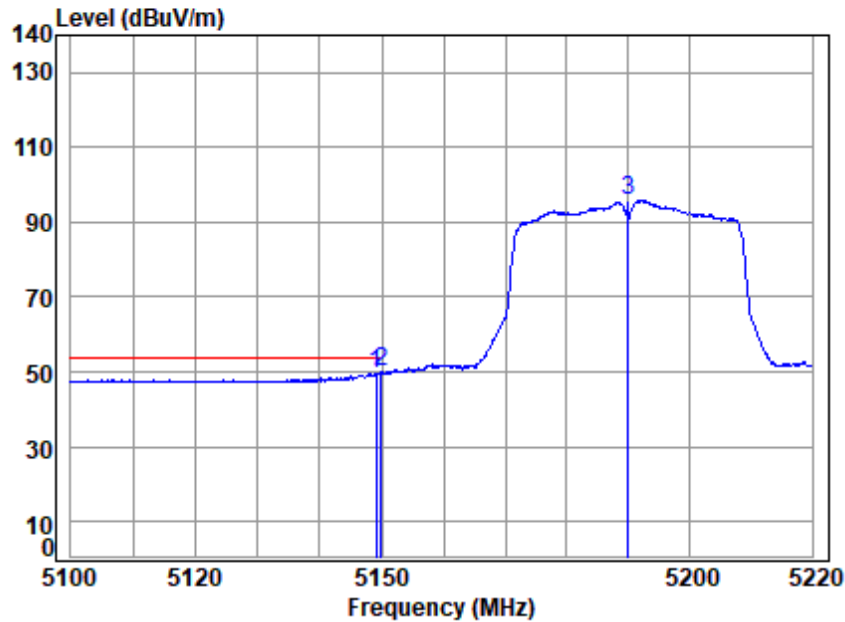


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.863	18.47	33.90	31.28	40.27	61.36	74.00	-12.64 Peak
2	5149.980	18.47	33.90	31.28	39.40	60.49	74.00	-13.51 Peak
3 p	5190.000	18.58	33.98	31.30	83.69	104.95	68.20	36.75 Peak



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

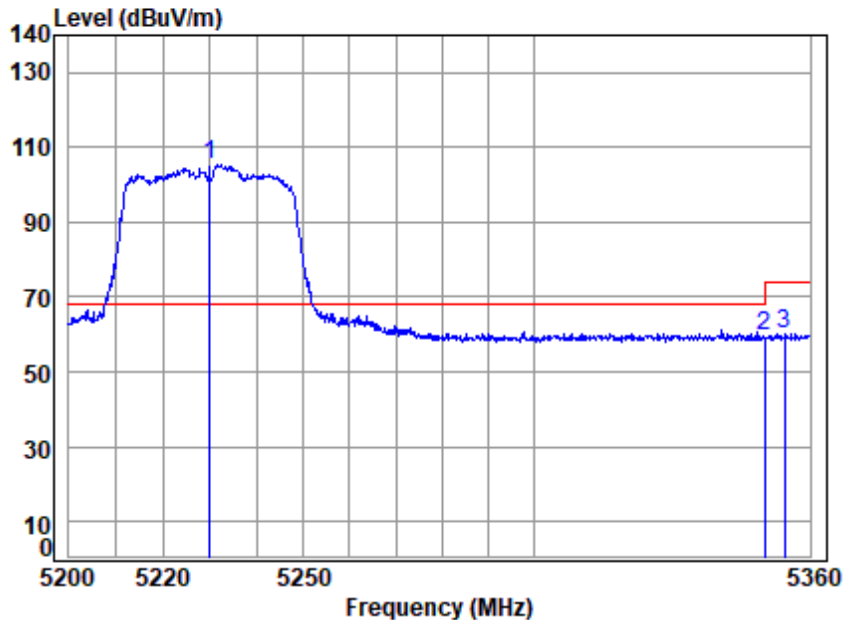


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		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	5149.102	18.47	33.90	31.28	28.51	49.60	54.00	-4.40 Average
2 q	5149.980	18.47	33.90	31.28	28.99	50.08	54.00	-3.92 Average
3	5190.000	18.58	33.98	31.30	74.49	95.75	-----	----- Average



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

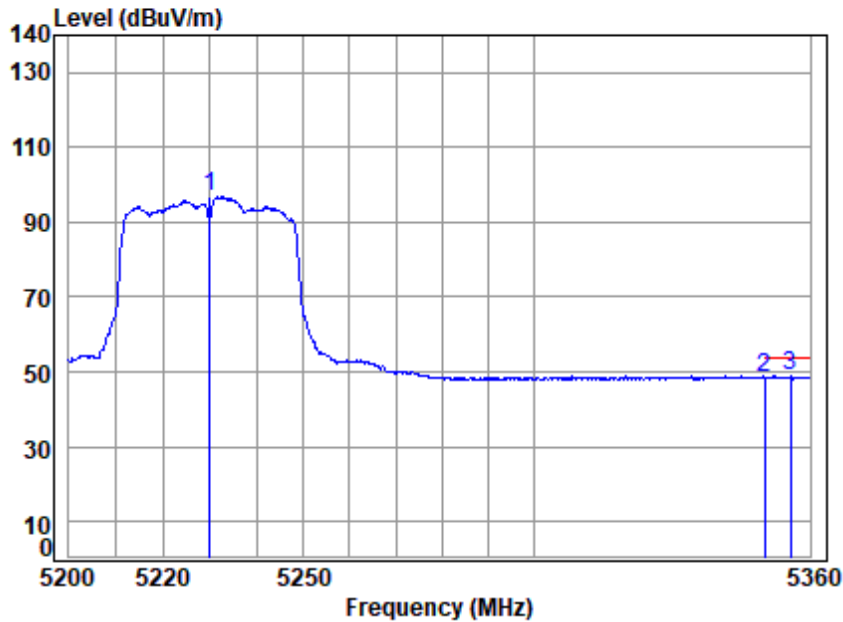


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5230.000	18.70	34.06	31.32	83.79	105.23	68.20	37.03	peak
2	5350.020	19.03	34.40	31.39	37.53	59.57	74.00	-14.43	peak
3	5354.480	19.04	34.42	31.39	38.13	60.20	74.00	-13.80	peak



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

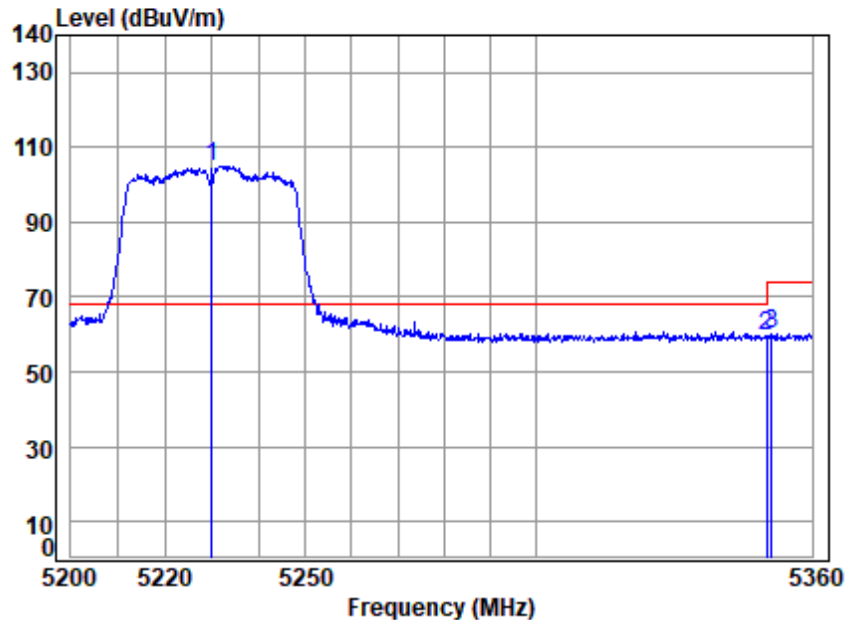


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	18.70	34.06	31.32	75.35	96.79	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.46	48.50	54.00	-5.50 Average
3 q	5355.778	19.04	34.42	31.39	26.76	48.83	54.00	-5.17 Average



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

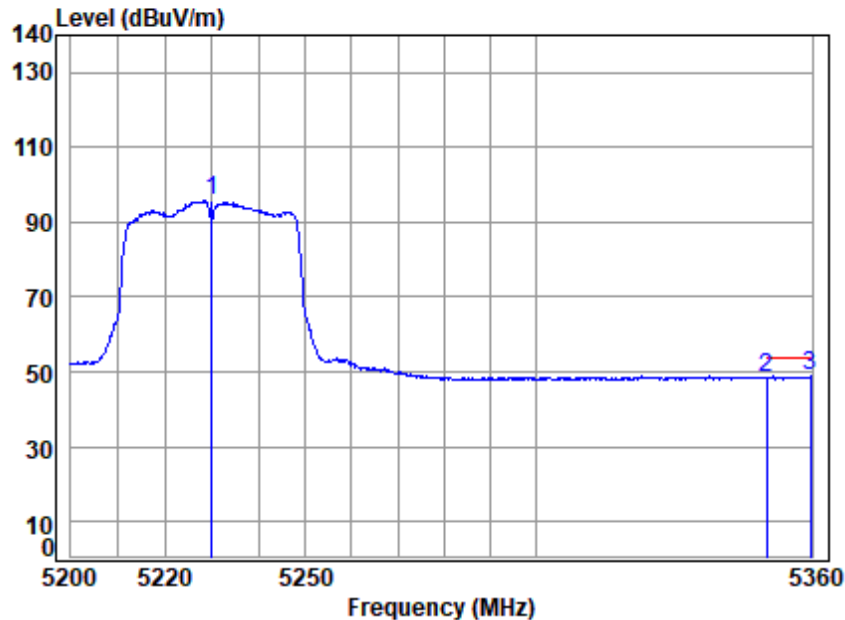


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5230.000	18.70	34.06	31.32	83.68	105.12	68.20	36.92	Peak
2	5350.020	19.03	34.40	31.39	37.76	59.80	74.00	-14.20	Peak
3	5351.235	19.03	34.40	31.39	38.35	60.39	74.00	-13.61	Peak



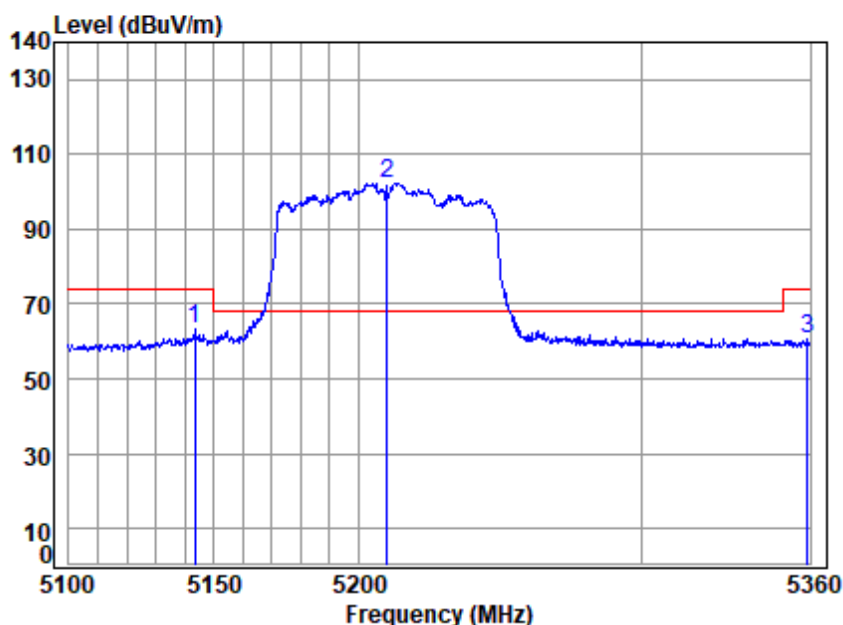
Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	18.70	34.06	31.32	74.13	95.57	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.31	48.35	54.00	-5.65 Average
3 q	5359.675	19.05	34.44	31.39	26.66	48.76	54.00	-5.24 Average

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

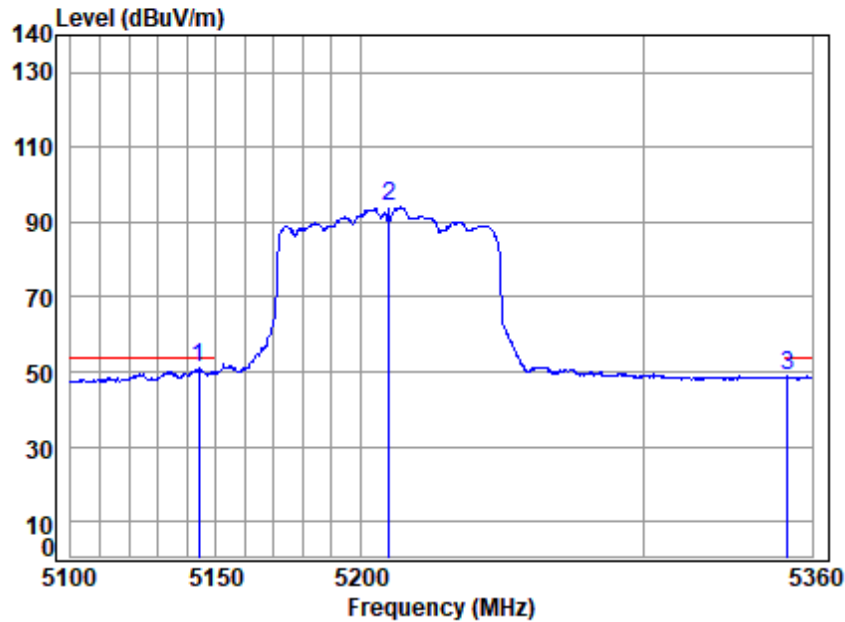


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.293	18.45	33.91	31.28	42.29	63.37	74.00	-10.63	peak
2 p	5210.000	18.64	34.02	31.31	81.01	102.36	68.20	34.16	peak
3	5359.201	19.05	34.44	31.39	38.37	60.47	74.00	-13.53	peak



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

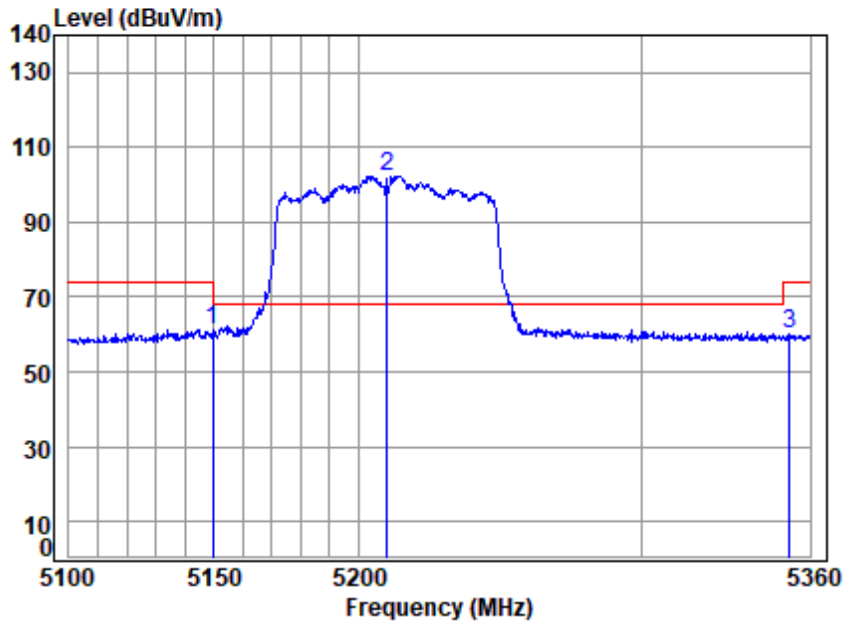


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5144.060	18.45	33.91	31.28	29.85	50.93	54.00	-3.07	Average
2 5210.000	18.64	34.02	31.31	72.65	94.00	-----	-----	Average
3 5351.212	19.03	34.40	31.39	26.83	48.87	54.00	-5.13	Average



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

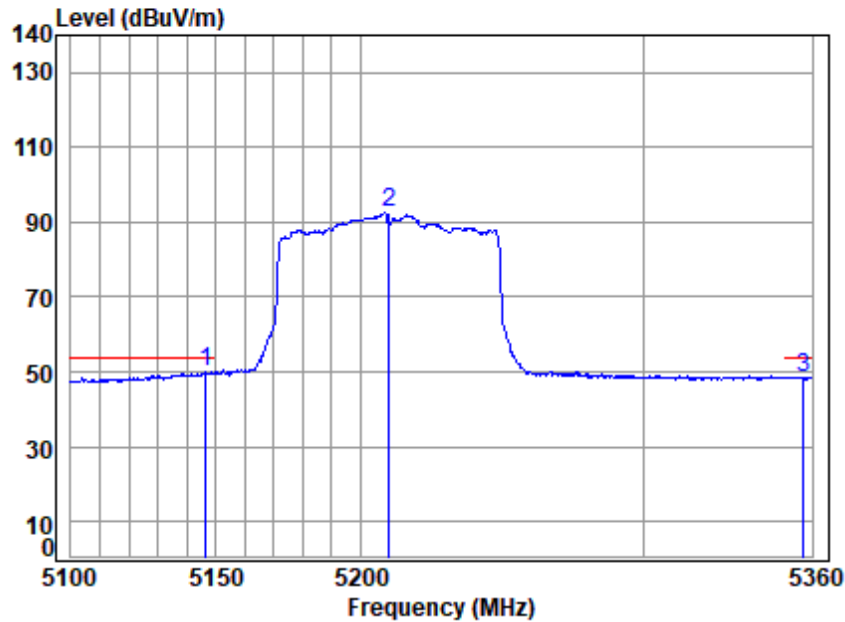


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.435	18.47	33.90	31.28	40.35	61.44	74.00	-12.56	Peak
2 p	5210.000	18.64	34.02	31.31	81.00	102.35	68.20	34.15	Peak
3	5352.542	19.03	34.41	31.39	37.91	59.96	74.00	-14.04	Peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 5146.363		18.46	33.91	31.28	29.02	50.11	54.00	-3.89 Average
2 5210.000		18.64	34.02	31.31	71.35	92.70	-----	----- Average
3 5356.803		19.05	34.43	31.39	26.59	48.68	54.00	-5.32 Average



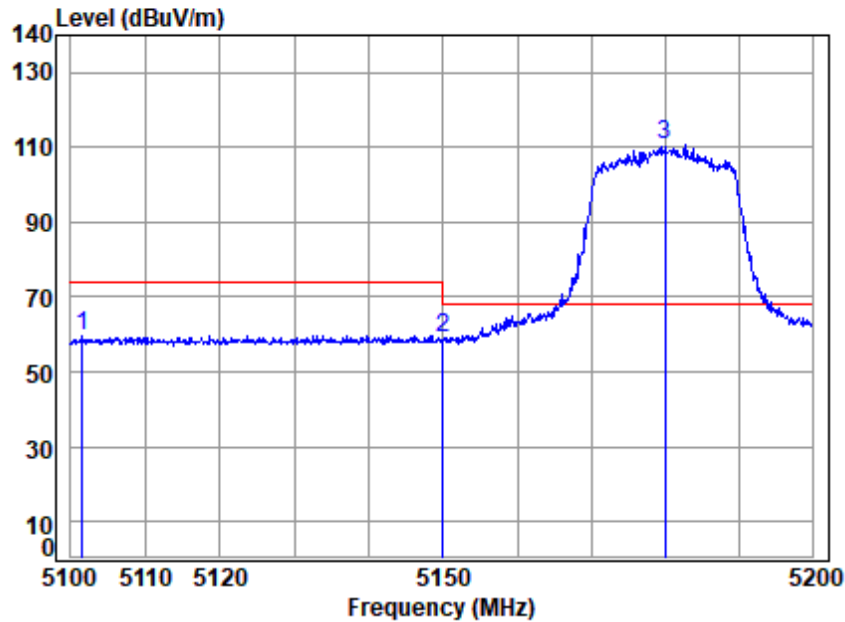
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 84 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 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	5101.585	18.33	34.00	31.26	38.77	59.84	74.00	-14.16	peak
2	5149.980	18.47	33.90	31.28	37.93	59.02	74.00	-14.98	peak
3 p	5180.000	18.56	33.96	31.30	89.26	110.48	68.20	42.28	peak



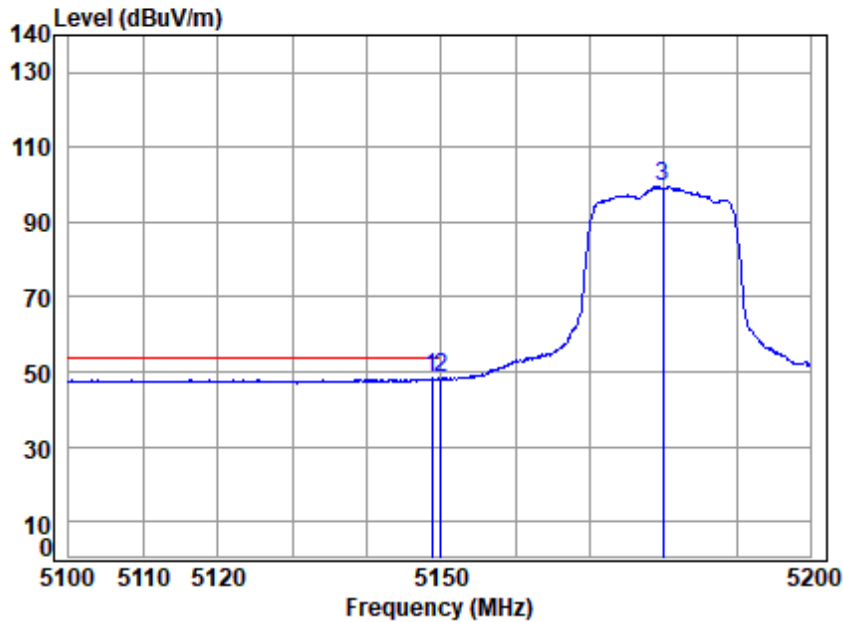
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

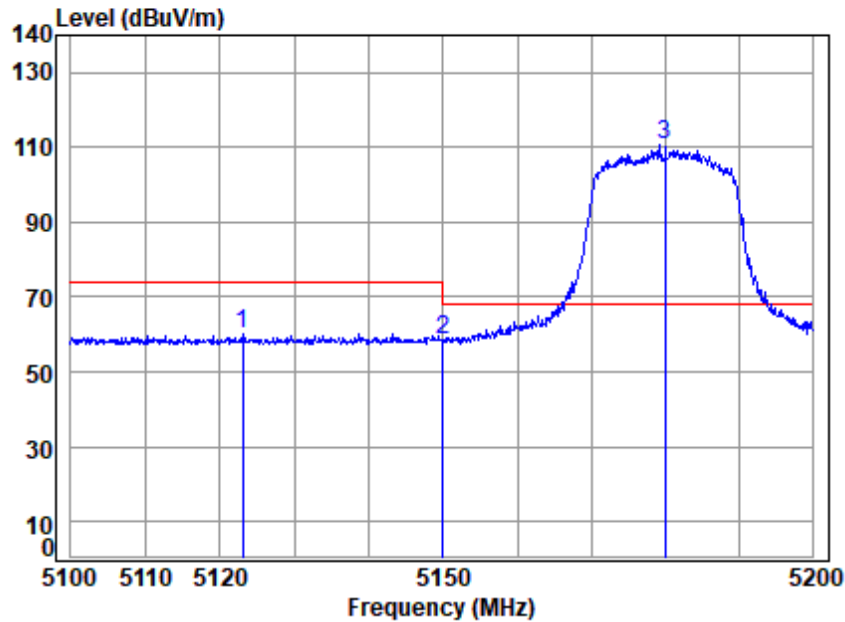


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11AX20

		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 q 5148.757	18.47	33.90	31.28	27.24	48.33	54.00	-5.67	Average
2 5149.980	18.47	33.90	31.28	27.16	48.25	54.00	-5.75	Average
3 5180.000	18.56	33.96	31.30	78.30	99.52	-----	-----	Average



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

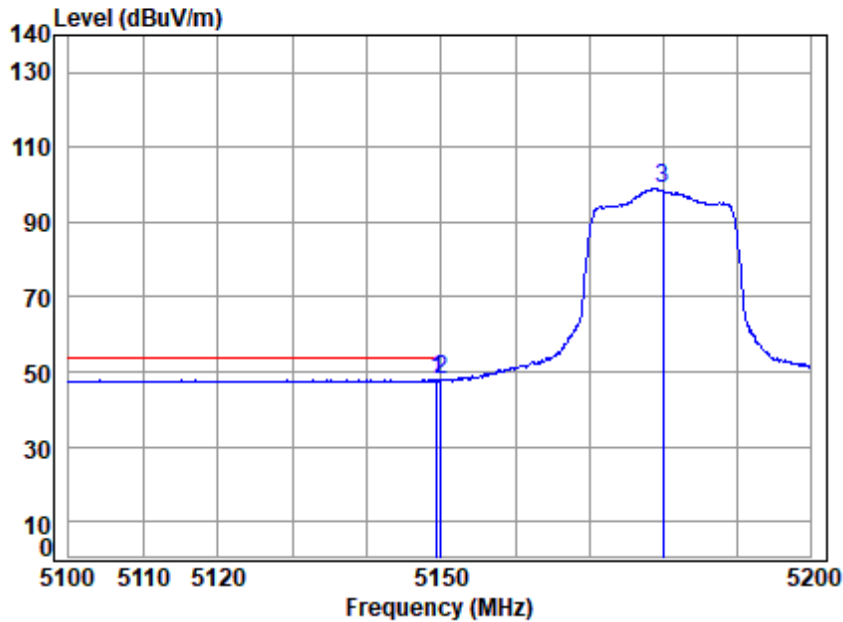


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 11AX20

		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	5123.027	18.39	33.95	31.27	38.93	60.00	74.00	-14.00 Peak
2	5149.980	18.47	33.90	31.28	37.39	58.48	74.00	-15.52 Peak
3 p	5180.000	18.56	33.96	31.30	89.67	110.89	68.20	42.69 Peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5180 Band edge
: 5G WIFI 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 q 5149.357	18.47	33.90	31.28	26.90	47.99	54.00	-6.01	Average
2 5149.980	18.47	33.90	31.28	26.80	47.89	54.00	-6.11	Average
3 5180.000	18.56	33.96	31.30	78.03	99.25	-----	-----	Average



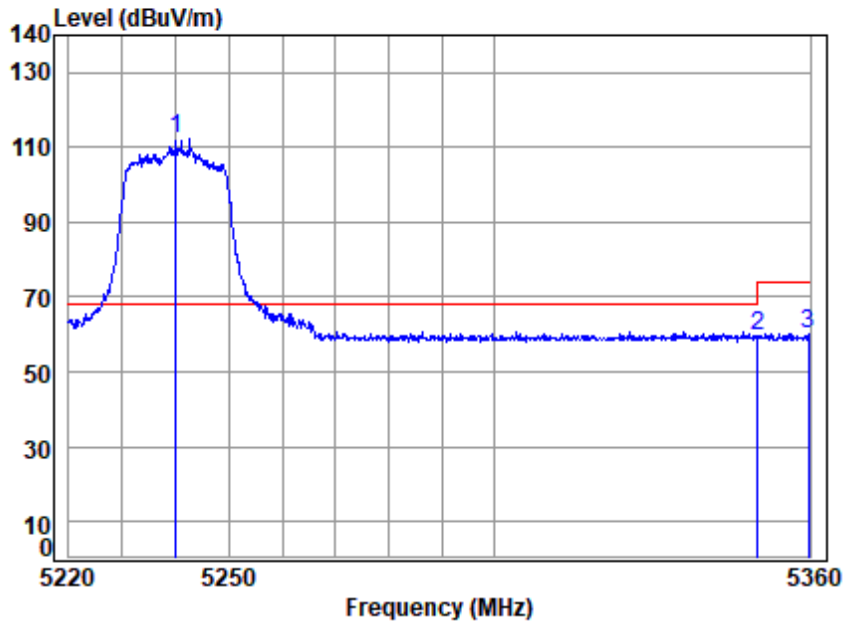
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 88 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 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 p	5240.000	18.72	34.08	31.33	90.81	112.28	68.20	44.08	peak
2	5350.020	19.03	34.40	31.39	37.35	59.39	74.00	-14.61	peak
3	5359.716	19.05	34.44	31.39	38.28	60.38	74.00	-13.62	peak



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Shenzhen Branch Testing & Calibration Laboratory

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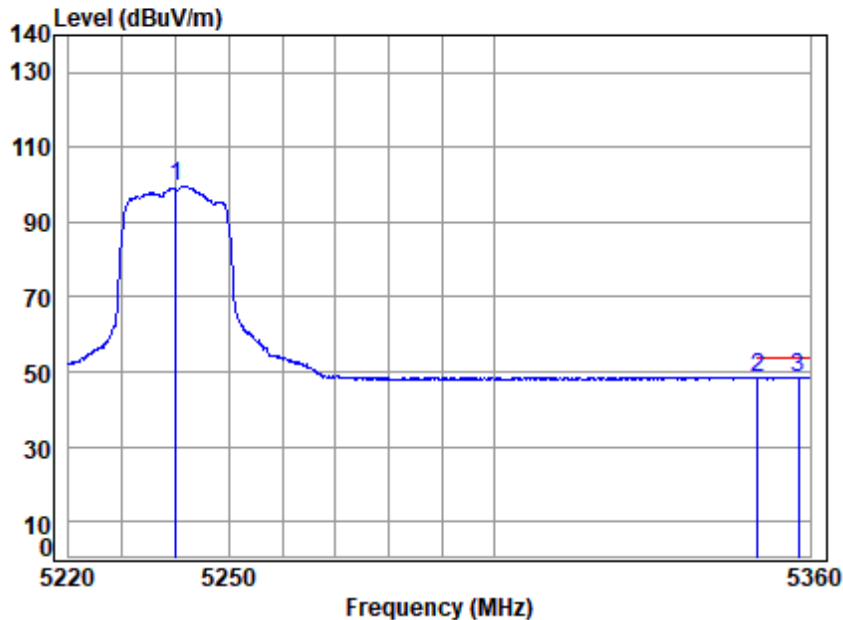
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Report No.: SZCR250800349805

Page: 89 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 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	18.72	34.08	31.33	78.18	99.65	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.38	48.42	54.00	-5.58 Average
3 q	5357.873	19.05	34.43	31.39	26.57	48.66	54.00	-5.34 Average



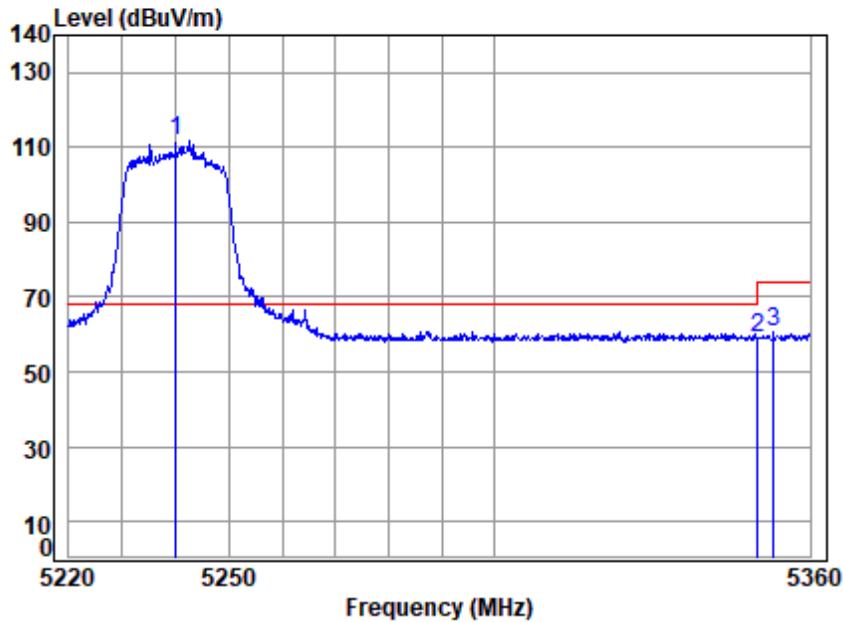
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

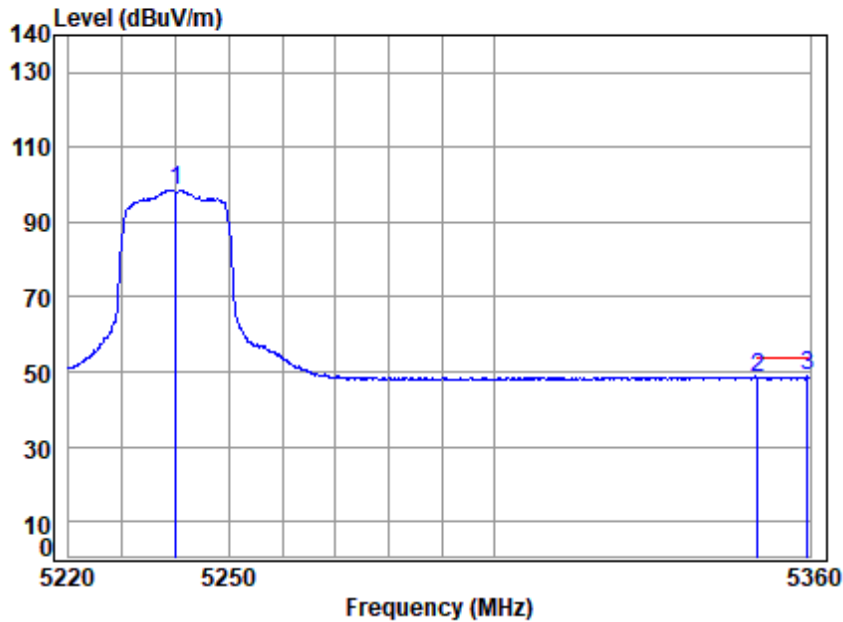


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5240.000	18.72	34.08	31.33	90.28	111.75	68.20	43.55 Peak
2	5350.020	19.03	34.40	31.39	37.19	59.23	74.00	-14.77 Peak
3	5353.053	19.04	34.41	31.39	38.62	60.68	74.00	-13.32 Peak



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

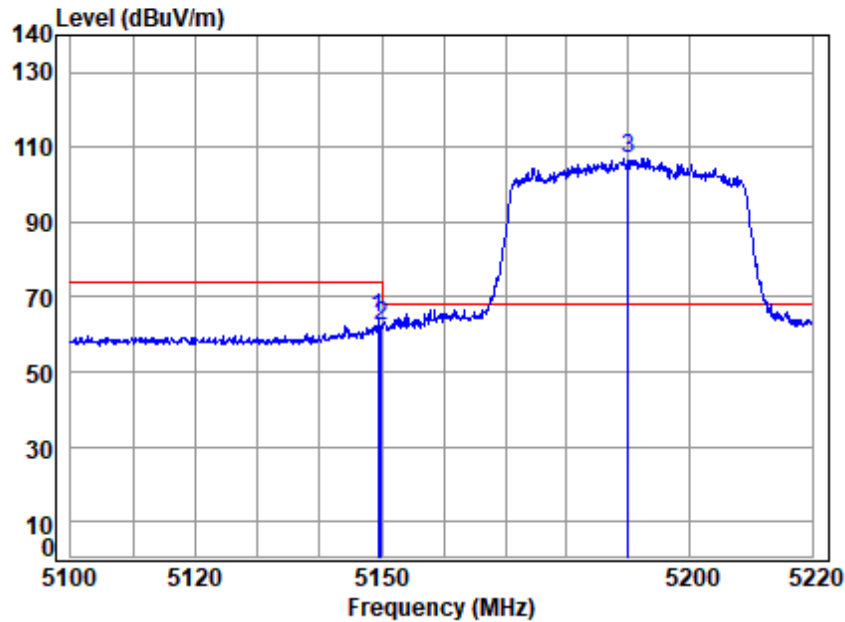


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5240 Band edge
: 5G WIFI 11AX20

		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	18.72	34.08	31.33	77.26	98.73	-----	-----	Average
2 5350.020	19.03	34.40	31.39	26.37	48.41	54.00	-5.59	Average
3 q 5359.574	19.05	34.44	31.39	26.63	48.73	54.00	-5.27	Average



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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 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	18.47	33.90	31.28	43.16	64.25	74.00	-9.75 peak
2	5149.980	18.47	33.90	31.28	41.17	62.26	74.00	-11.74 peak
3 p	5190.000	18.58	33.98	31.30	85.95	107.21	68.20	39.01 peak



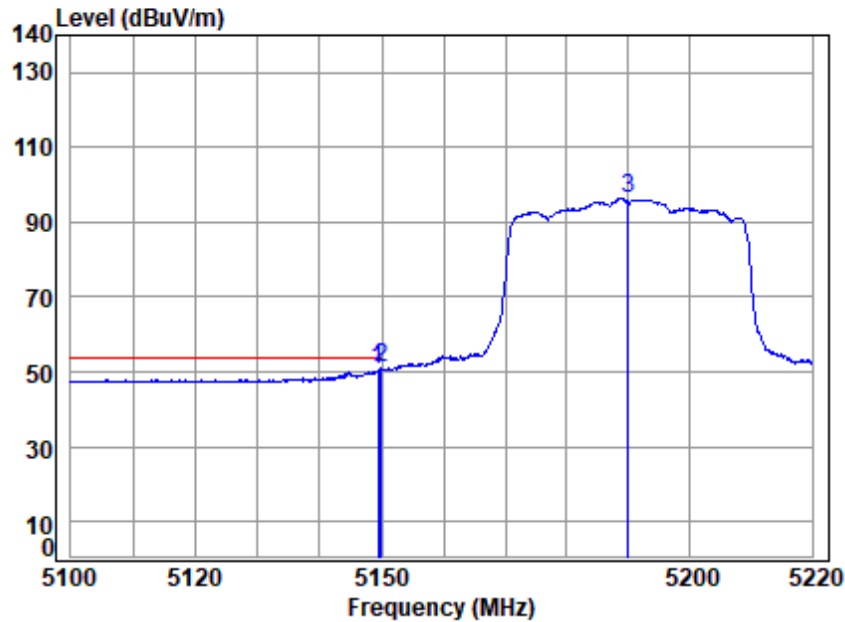
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 93 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 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	18.47	33.90	31.28	29.29	50.38	54.00	-3.62 Average
2 q	5149.980	18.47	33.90	31.28	29.79	50.88	54.00	-3.12 Average
3	5190.000	18.58	33.98	31.30	75.05	96.31	-----	----- Average



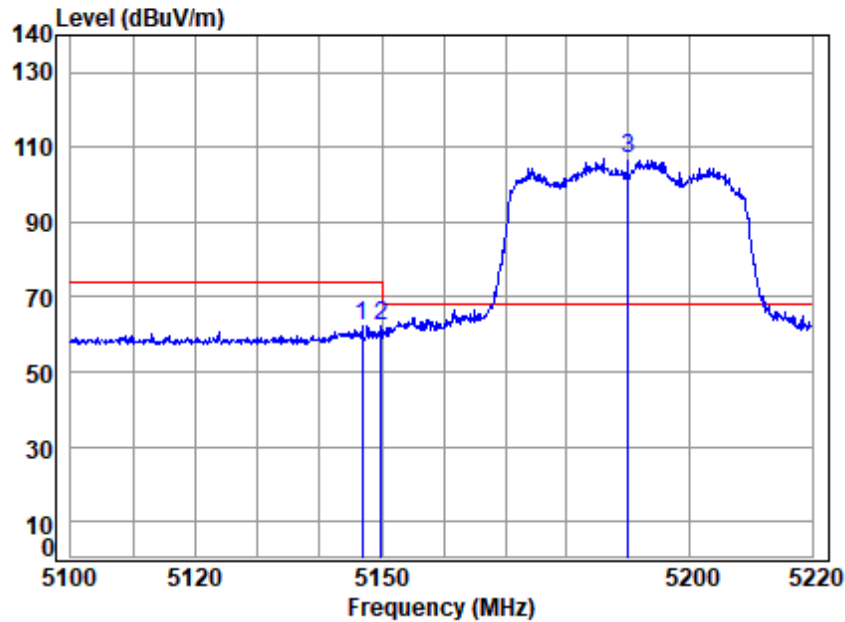
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 11AX40

		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	5146.828	18.46	33.91	31.28	41.43	62.52	74.00	-11.48 Peak
2	5149.980	18.47	33.90	31.28	41.29	62.38	74.00	-11.62 Peak
3 p	5190.000	18.58	33.98	31.30	85.68	106.94	68.20	38.74 Peak



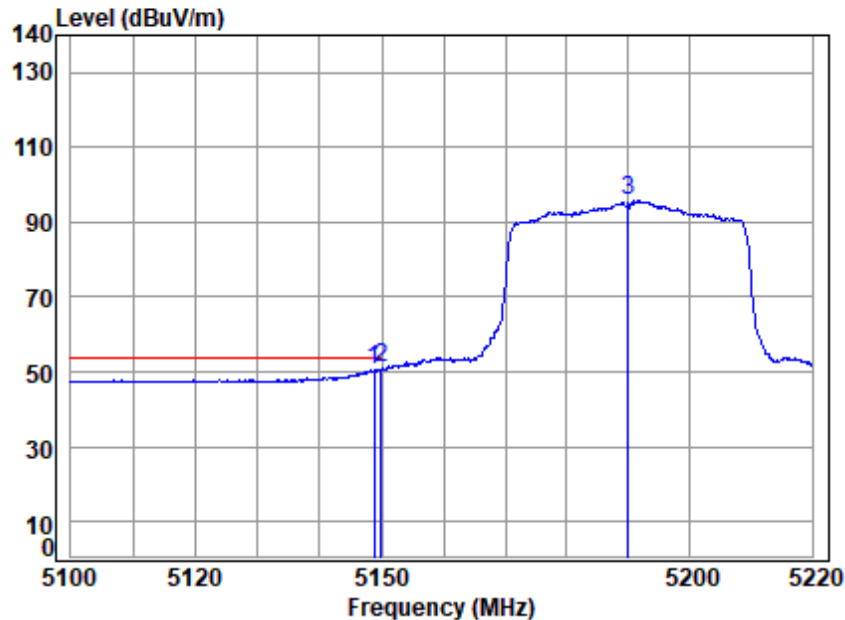
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 95 of 281

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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5190 Band edge
: 5G WIFI 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	5148.743	18.47	33.90	31.28	29.53	50.62	54.00	-3.38 Average
2 q	5149.980	18.47	33.90	31.28	29.85	50.94	54.00	-3.06 Average
3	5190.000	18.58	33.98	31.30	74.67	95.93	-----	----- Average



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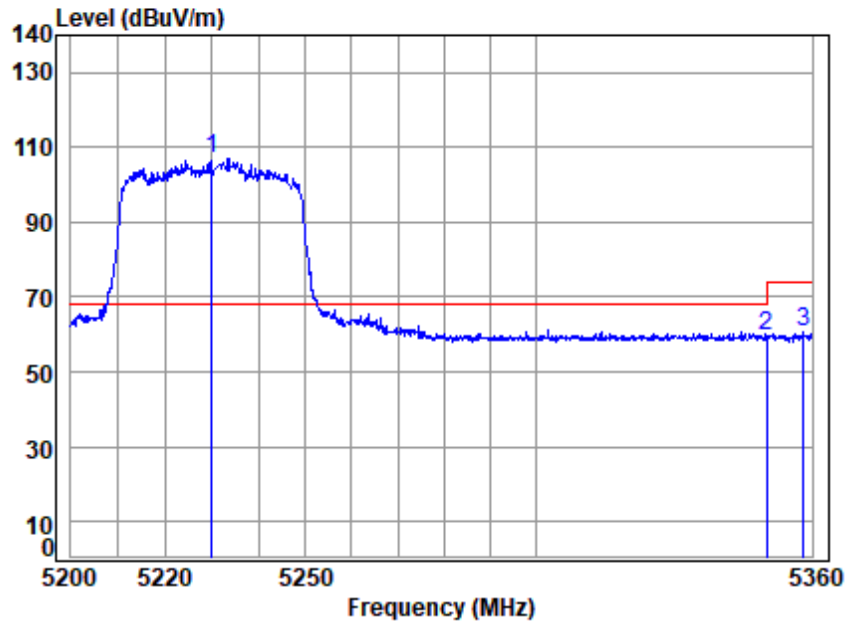
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Report No.: SZCR250800349805

Page: 96 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 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 p	5230.000	18.70	34.06	31.32	85.69	107.13	68.20	38.93	peak
2	5350.020	19.03	34.40	31.39	37.70	59.74	74.00	-14.26	peak
3	5358.051	19.05	34.43	31.39	38.51	60.60	74.00	-13.40	peak



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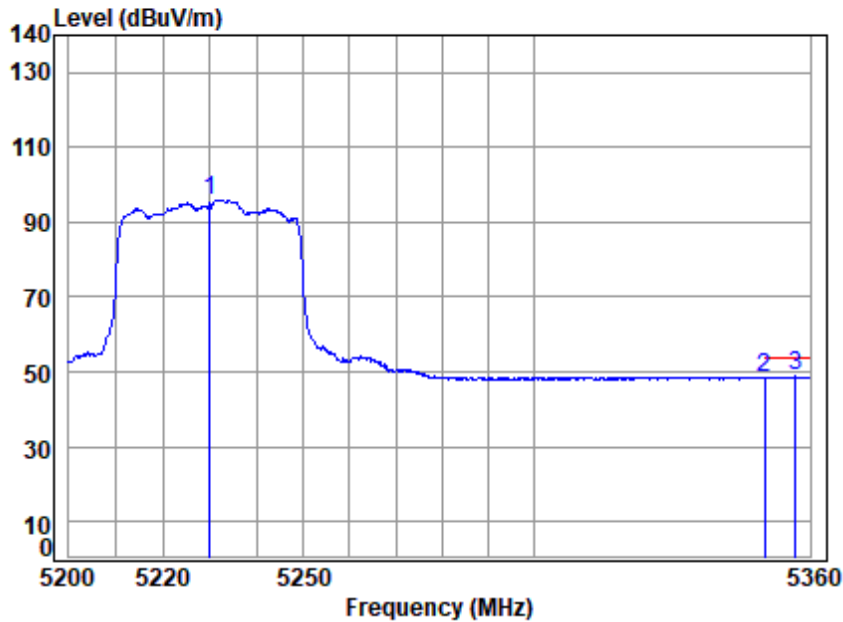
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Report No.: SZCR250800349805

Page: 97 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 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	18.70	34.06	31.32	74.57	96.01	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.32	48.36	54.00	-5.64 Average
3 q	5356.915	19.05	34.43	31.39	26.67	48.76	54.00	-5.24 Average



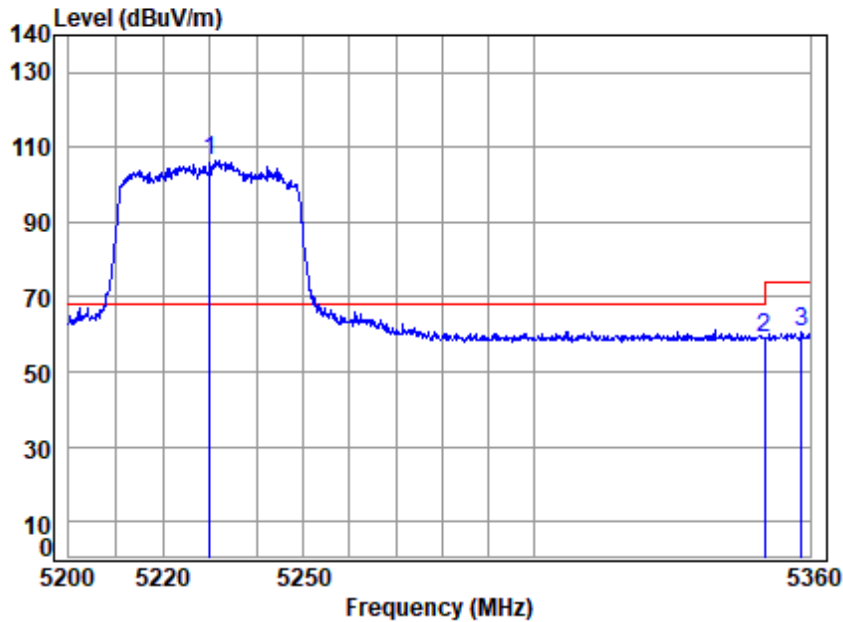
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

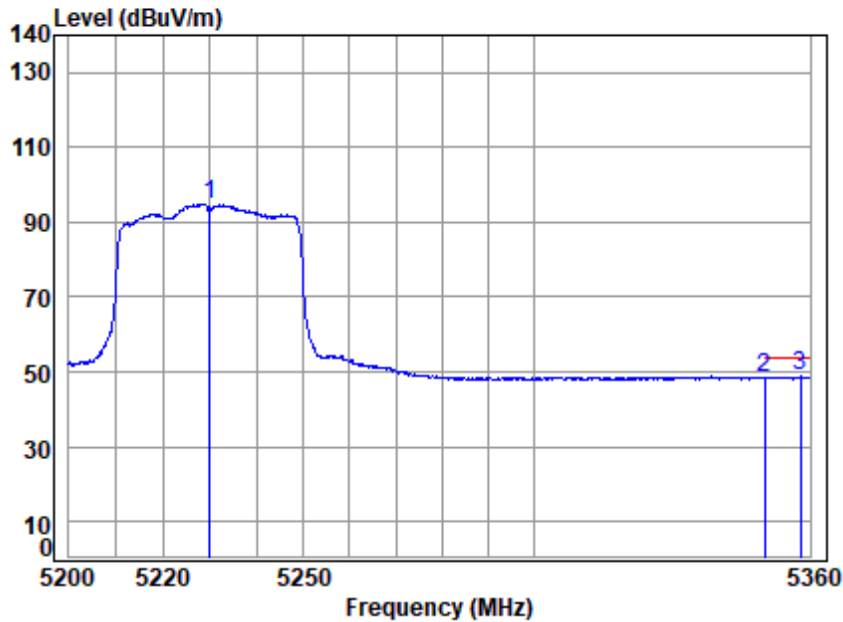


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 11AX40

		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 p	5230.000	18.70	34.06	31.32	85.26	106.70	68.20	38.50	Peak
2	5350.020	19.03	34.40	31.39	37.29	59.33	74.00	-14.67	Peak
3	5358.213	19.05	34.43	31.39	38.46	60.55	74.00	-13.45	Peak



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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5230 Band edge
: 5G WIFI 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	18.70	34.06	31.32	73.44	94.88	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.30	48.34	54.00	-5.66 Average
3 q	5357.889	19.05	34.43	31.39	26.71	48.80	54.00	-5.20 Average



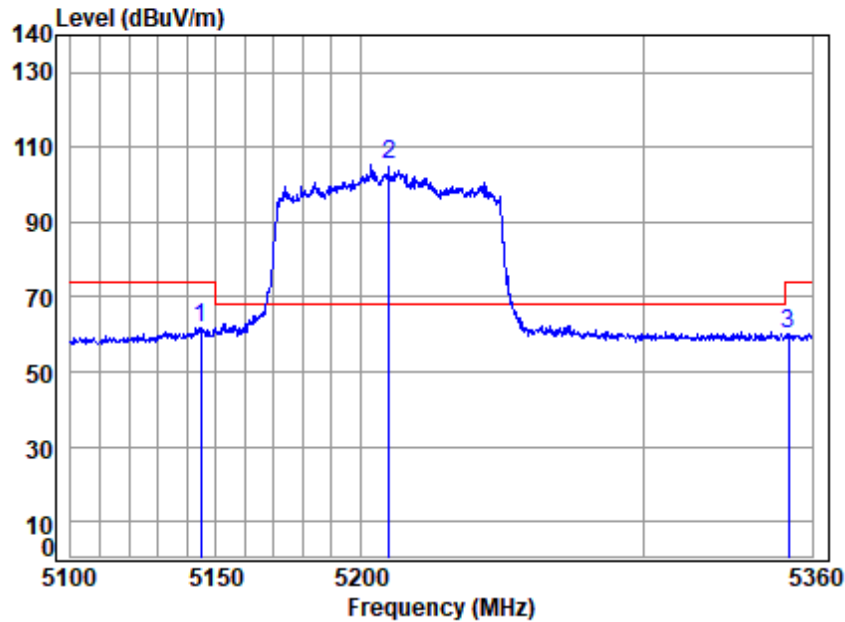
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 100 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 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	5144.572	18.46	33.91	31.28	40.69	61.78	74.00	-12.22	peak
2 p	5210.000	18.64	34.02	31.31	84.22	105.57	68.20	37.37	peak
3	5351.478	19.03	34.41	31.39	38.16	60.21	74.00	-13.79	peak



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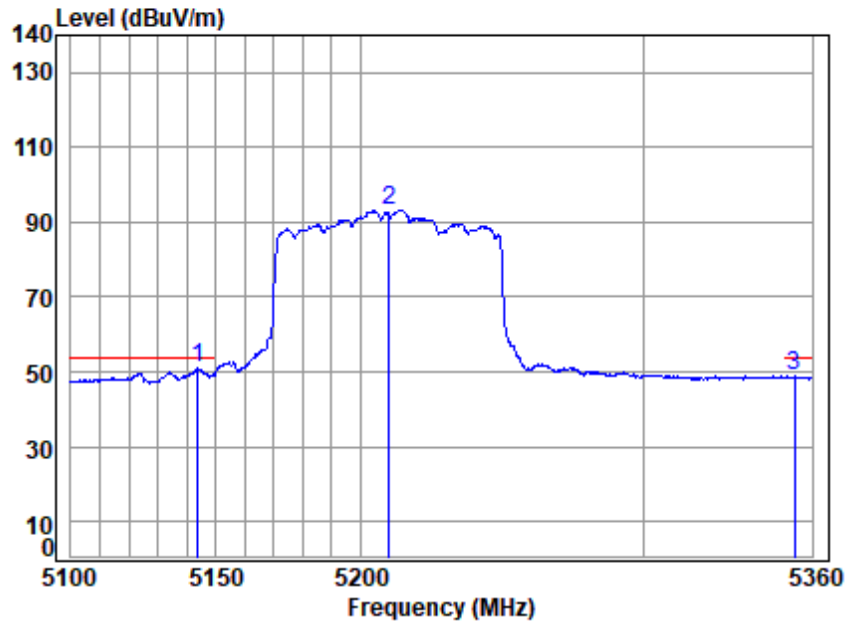
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Report No.: SZCR250800349805

Page: 101 of 281

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 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 q 5143.805	18.45	33.91	31.28	29.77	50.85	54.00	-3.15	Average
2 5210.000	18.64	34.02	31.31	71.96	93.31	-----	-----	Average
3 5353.874	19.04	34.42	31.39	26.71	48.78	54.00	-5.22	Average



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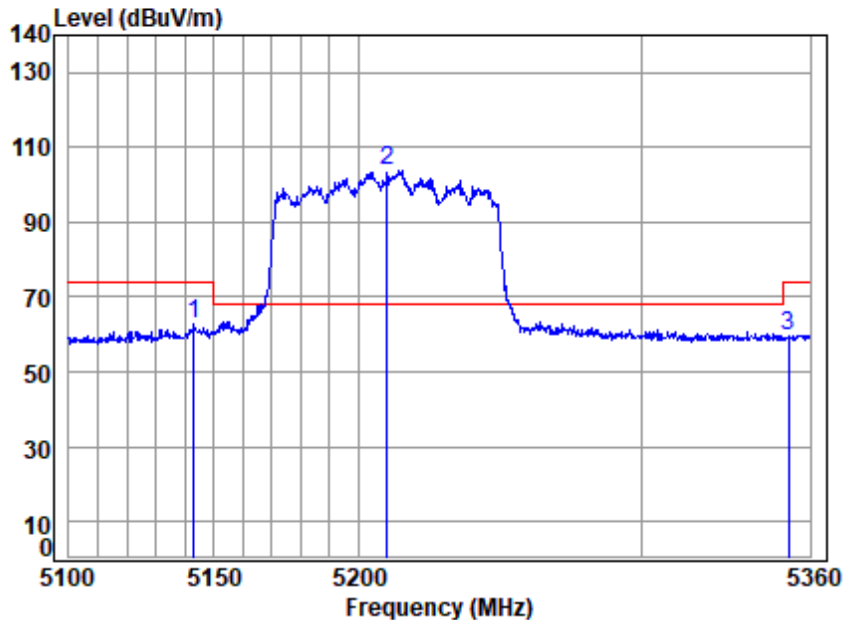
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 102 of 281

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



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 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	5143.037	18.45	33.91	31.28	41.97	63.05	74.00	-10.95	Peak
2 p	5210.000	18.64	34.02	31.31	82.24	103.59	68.20	35.39	Peak
3	5352.276	19.03	34.41	31.39	37.82	59.87	74.00	-14.13	Peak



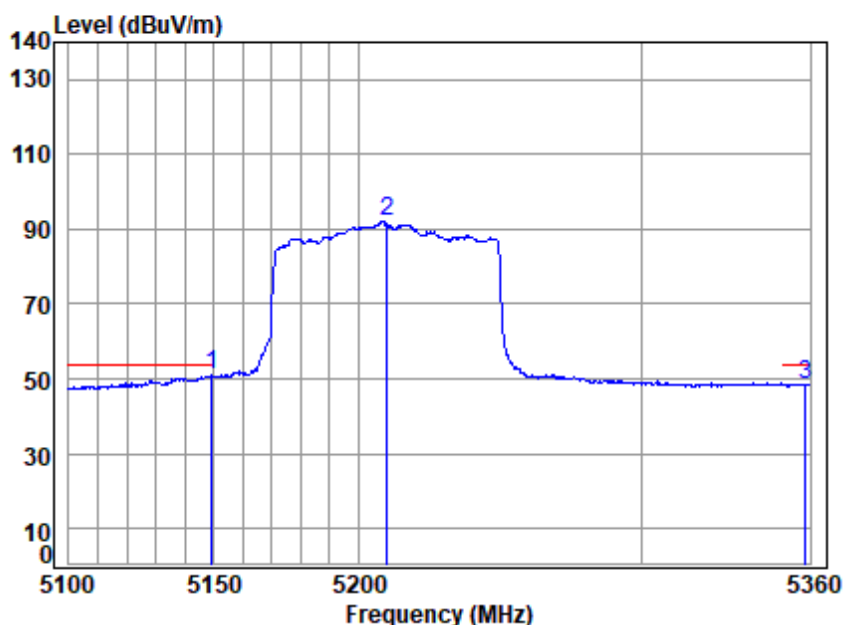
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle

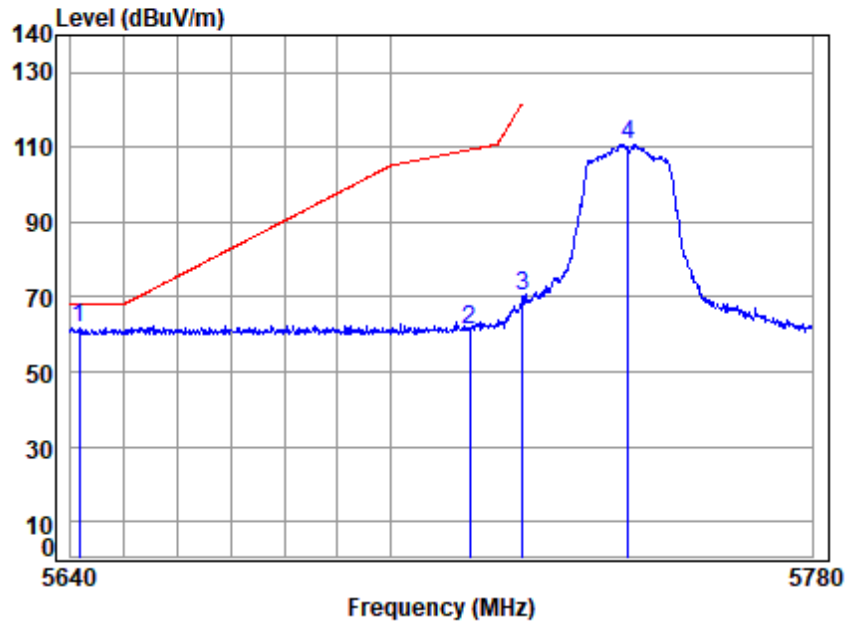


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5210 Band edge
: 5G WIFI 11AX80

		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 q	5149.178	18.47	33.90	31.28	29.87	50.96	54.00	-3.04 Average
2	5210.000	18.64	34.02	31.31	70.62	91.97	-----	----- Average
3	5358.401	19.05	34.43	31.39	26.54	48.63	54.00	-5.37 Average



Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

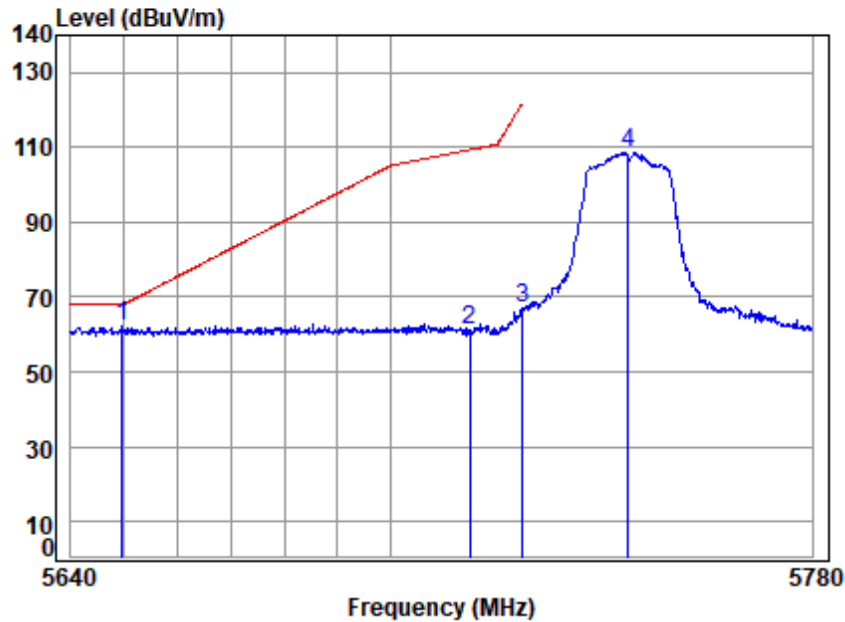


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5641.521	19.68	34.45	31.53	39.00	61.60	68.20	-6.60 peak
2	5715.000	19.81	34.27	31.57	38.96	61.47	109.40	-47.93 peak
3	5725.000	19.83	34.25	31.57	47.62	70.13	122.20	-52.07 peak
4	5745.000	19.87	34.21	31.58	88.19	110.69	-----	----- peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

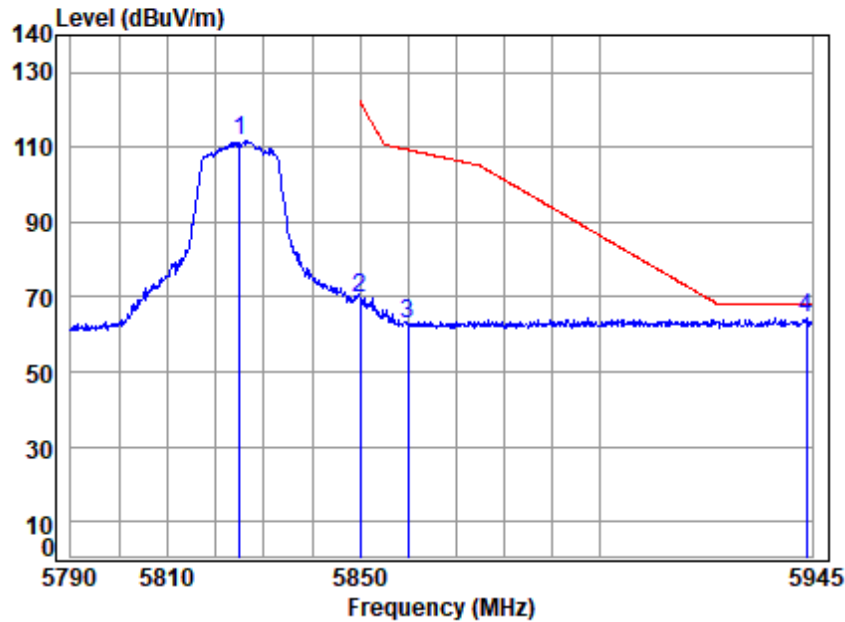


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5649.688	19.70	34.40	31.54	39.61	62.17	68.20	-6.03	peak
2 5715.000	19.81	34.27	31.57	38.81	61.32	109.40	-48.08	peak
3 5725.000	19.83	34.25	31.57	44.76	67.27	122.20	-54.93	peak
4 5745.000	19.87	34.21	31.58	86.13	108.63	-----	-----	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

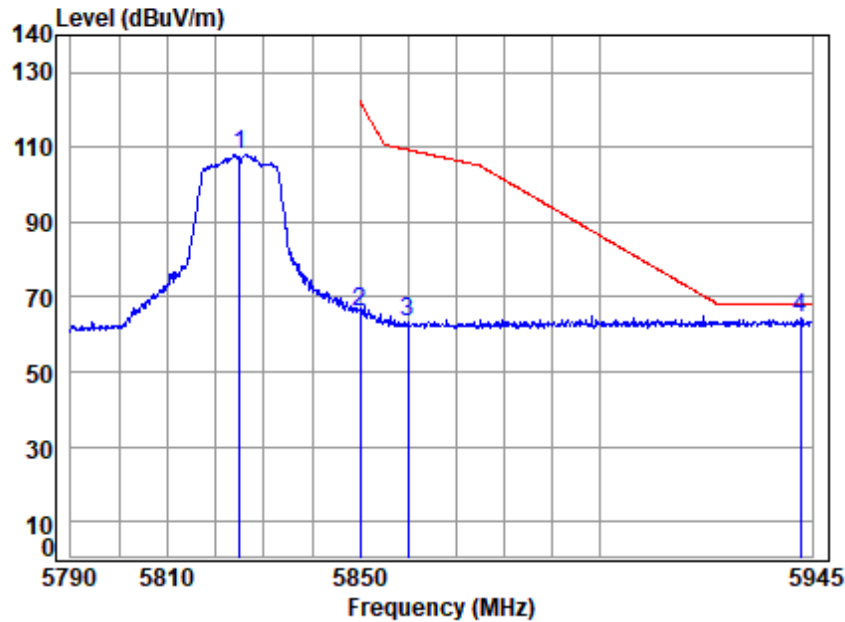


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5825 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	20.00	34.35	31.62	88.97	111.70	-----	-----	peak
2	5850.000	20.05	34.40	31.63	46.84	69.66	122.20	-52.54	peak
3	5860.000	20.06	34.44	31.64	40.15	63.01	109.40	-46.39	peak
4 p	5943.744	20.21	34.69	31.67	41.16	64.39	68.20	-3.81	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

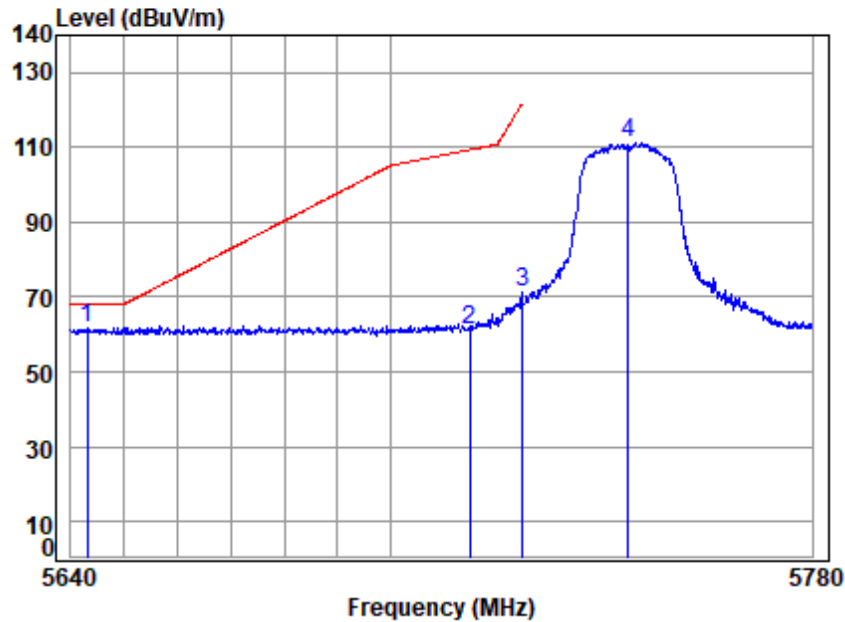


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5825 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	20.00	34.35	31.62	85.33	108.06	-----	-----	peak
2	5850.000	20.05	34.40	31.63	43.00	65.82	122.20	-56.38	peak
3	5860.000	20.06	34.44	31.64	40.32	63.18	109.40	-46.22	peak
4 p	5942.645	20.20	34.69	31.67	41.06	64.28	68.20	-3.92	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

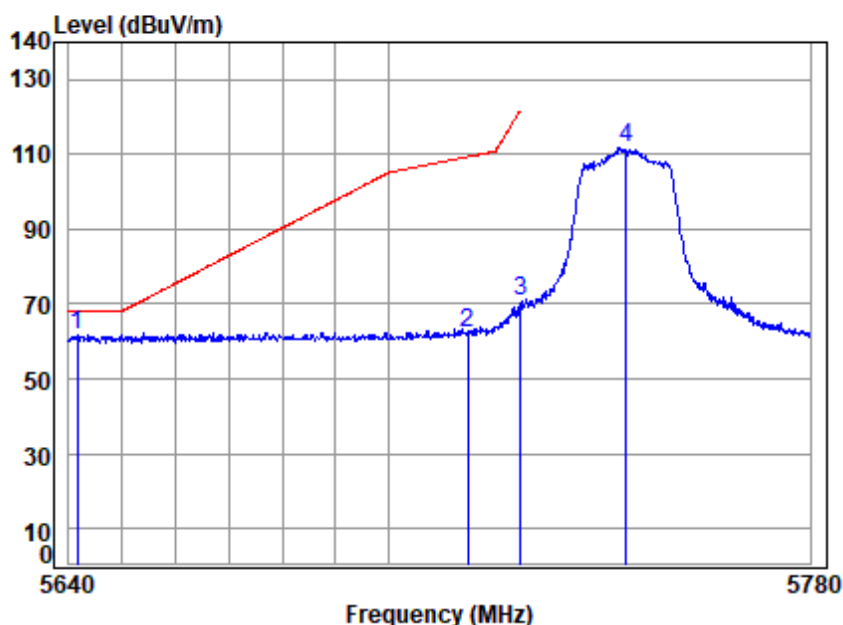


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5643.043	19.69	34.44	31.53	38.98	61.58	68.20	-6.62 peak
2	5715.000	19.81	34.27	31.57	38.83	61.34	109.40	-48.06 peak
3	5725.000	19.83	34.25	31.57	48.97	71.48	122.20	-50.72 peak
4	5745.000	19.87	34.21	31.58	88.72	111.22	-----	----- peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

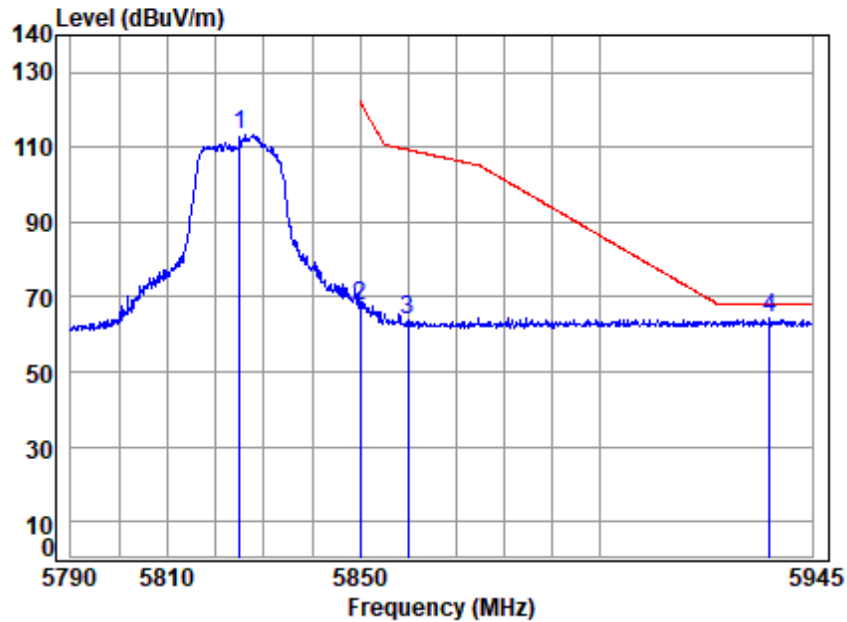


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5641.660	19.68	34.45	31.53	39.10	61.70	68.20	-6.50 peak
2	5715.000	19.81	34.27	31.57	39.59	62.10	109.40	-47.30 peak
3	5725.000	19.83	34.25	31.57	48.52	71.03	122.20	-51.17 peak
4	5745.000	19.87	34.21	31.58	89.32	111.82	-----	----- peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

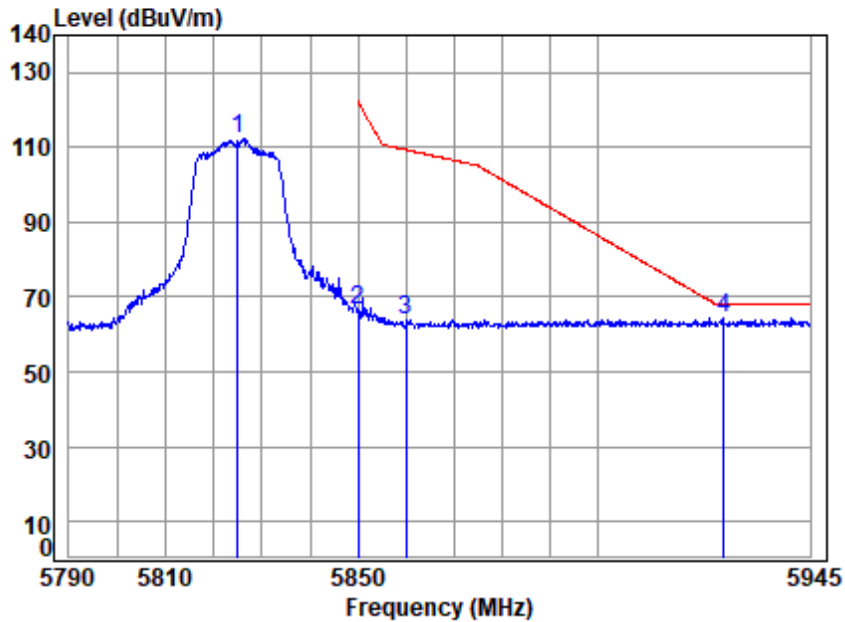


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	20.00	34.35	31.62	90.53	113.26	-----	-----	peak
2	5850.000	20.05	34.40	31.63	44.78	67.60	122.20	-54.60	peak
3	5860.000	20.06	34.44	31.64	41.07	63.93	109.40	-45.47	peak
4 p	5936.055	20.19	34.67	31.67	41.01	64.20	68.20	-4.00	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

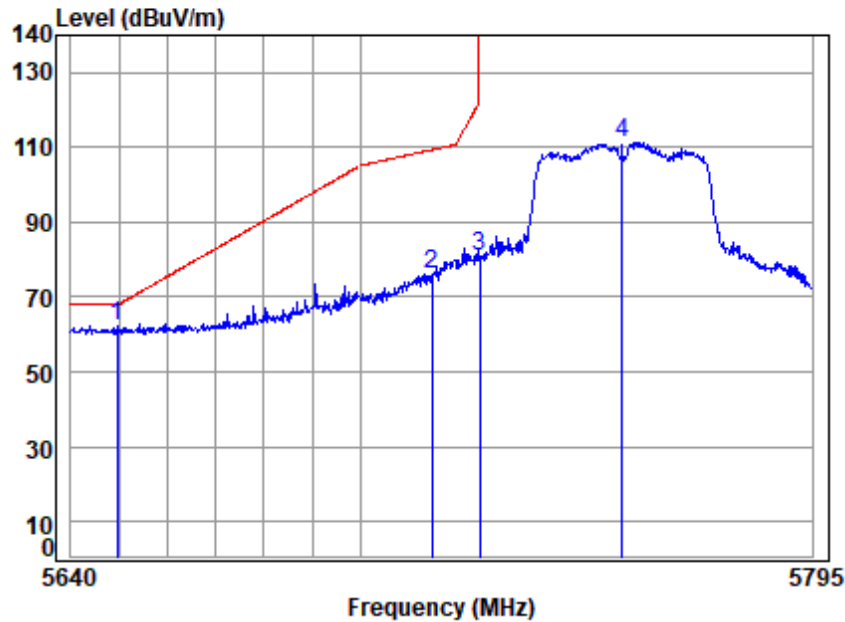


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	20.00	34.35	31.62	89.80	112.53	-----	-----	peak
2	5850.000	20.05	34.40	31.63	43.73	66.55	122.20	-55.65	peak
3	5860.000	20.06	34.44	31.64	40.93	63.79	109.40	-45.61	peak
4 p	5926.653	20.18	34.65	31.67	41.19	64.35	68.20	-3.85	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

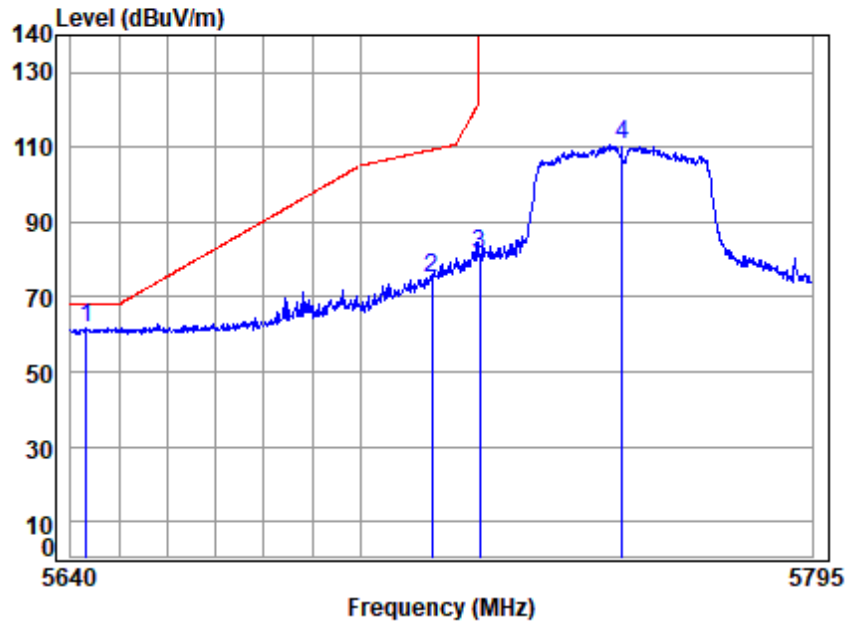


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5649.642	19.70	34.40	31.53	39.56	62.13	68.20	-6.07	peak
2 5715.000	19.81	34.27	31.57	53.64	76.15	109.40	-33.25	peak
3 5725.000	19.83	34.25	31.57	58.54	81.05	122.20	-41.15	peak
4 5755.000	19.88	34.21	31.59	88.82	111.32	-----	-----	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

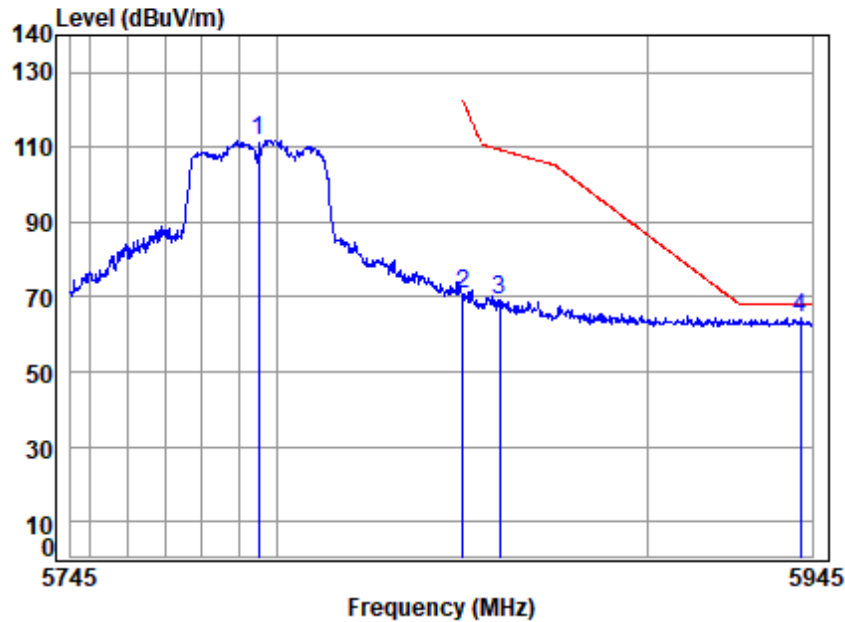


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5643.212	19.69	34.44	31.53	39.36	61.96	68.20	-6.24 peak
2	5715.000	19.81	34.27	31.57	52.39	74.90	109.40	-34.50 peak
3	5725.000	19.83	34.25	31.57	59.16	81.67	122.20	-40.53 peak
4	5755.000	19.88	34.21	31.59	88.10	110.60	-----	----- peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

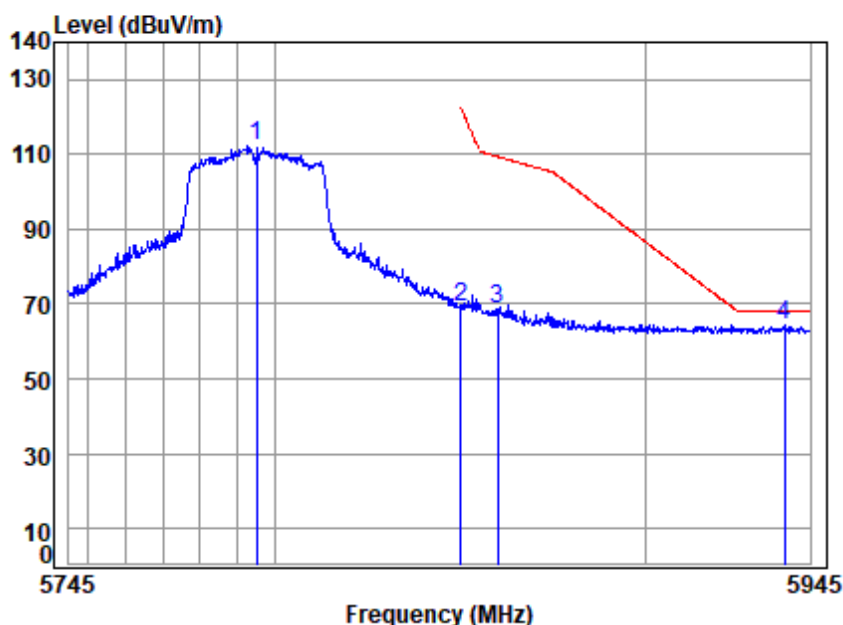


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.95	34.29	31.60	89.38	112.02	-----	-----	peak
2	5850.000	20.05	34.40	31.63	48.09	70.91	122.20	-51.29	peak
3	5860.000	20.06	34.44	31.64	46.32	69.18	109.40	-40.22	peak
4 p	5941.746	20.20	34.68	31.67	41.18	64.39	68.20	-3.81	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

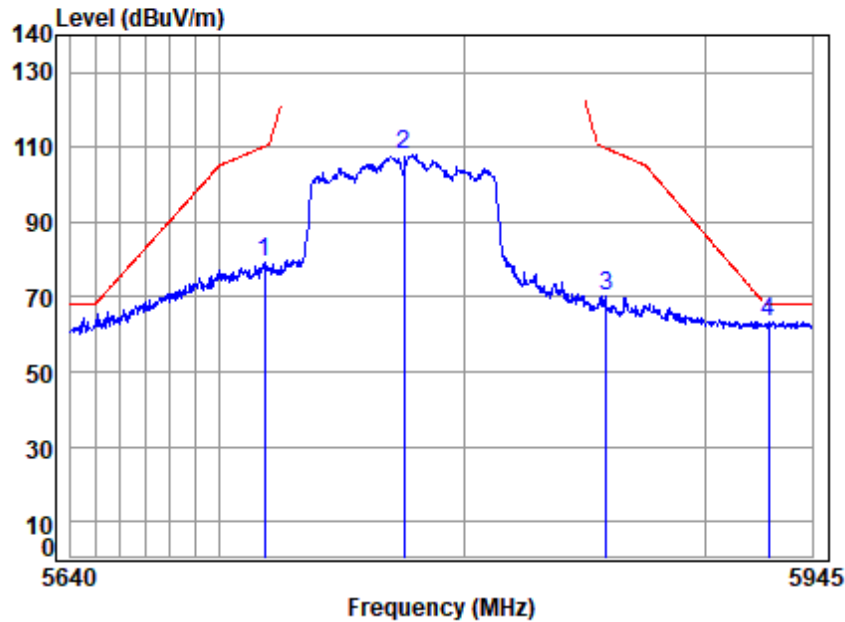


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.95	34.29	31.60	89.51	112.15	-----	-----	peak
2	5850.000	20.05	34.40	31.63	46.13	68.95	122.20	-53.25	peak
3	5860.000	20.06	34.44	31.64	45.64	68.50	109.40	-40.90	peak
4 p	5938.087	20.20	34.68	31.67	41.01	64.22	68.20	-3.98	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

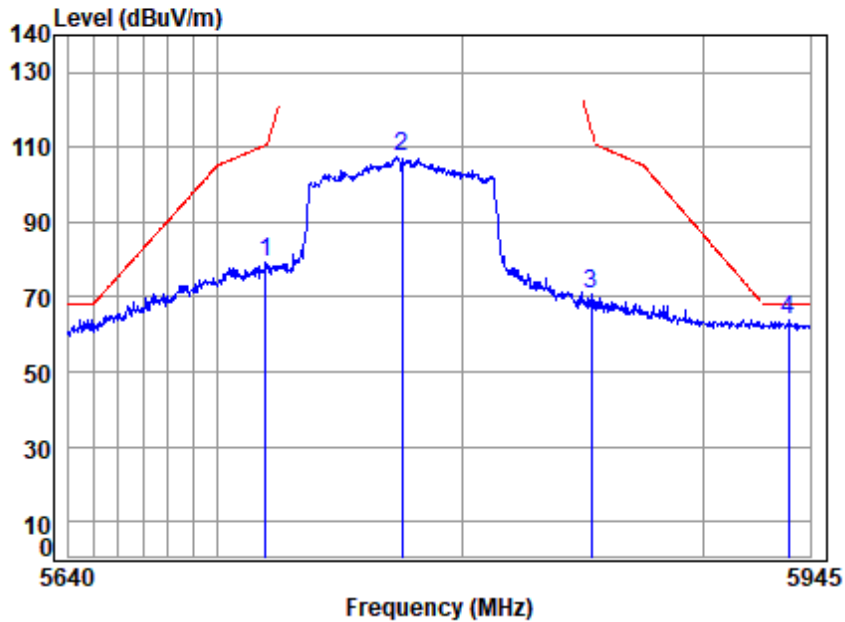


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5718.063	19.82	34.26	31.57	56.57	79.08	110.26	-31.18	peak
2	5775.000	19.92	34.25	31.60	85.70	108.27	-----	-----	peak
3	5858.592	20.06	34.43	31.63	47.43	70.29	109.79	-39.50	peak
4 p	5926.868	20.18	34.65	31.67	40.19	63.35	68.20	-4.85	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 03498AT
 Mode : 5775 Band edge
 : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5719.568	19.82	34.26	31.57	56.87	79.38	110.68	-31.30	peak
2	5775.000	19.92	34.25	31.60	84.93	107.50	-----	-----	peak
3	5853.349	20.05	34.41	31.63	47.78	70.61	114.56	-43.95	peak
4 p	5935.927	20.19	34.67	31.67	40.58	63.77	68.20	-4.43	peak



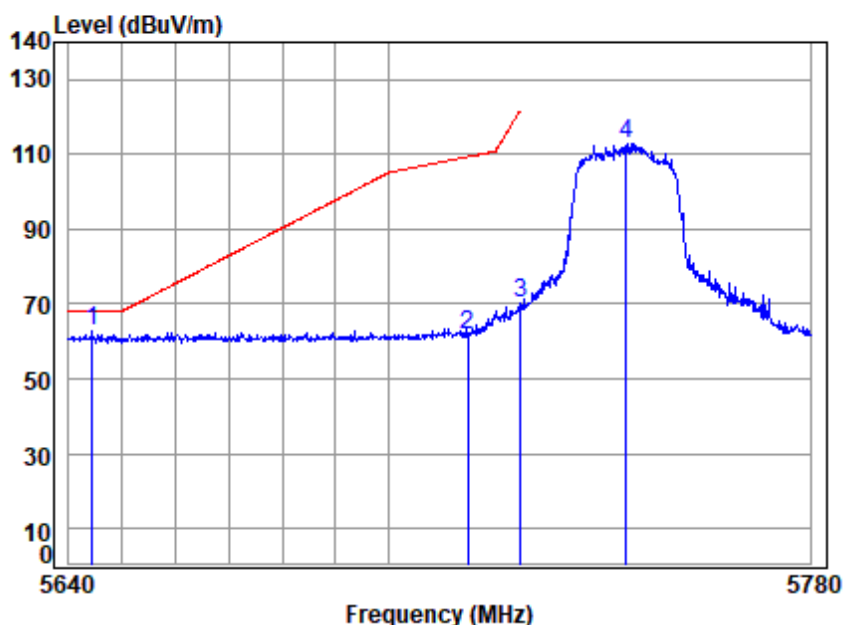
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 118 of 281

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5745 Band edge
: 5G WIFI 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 p 5644.427	19.69	34.43	31.53	40.08	62.67	68.20	-5.53	peak
2 5715.000	19.81	34.27	31.57	39.43	61.94	109.40	-47.46	peak
3 5725.000	19.83	34.25	31.57	47.64	70.15	122.20	-52.05	peak
4 5745.000	19.87	34.21	31.58	90.45	112.95	-----	-----	peak



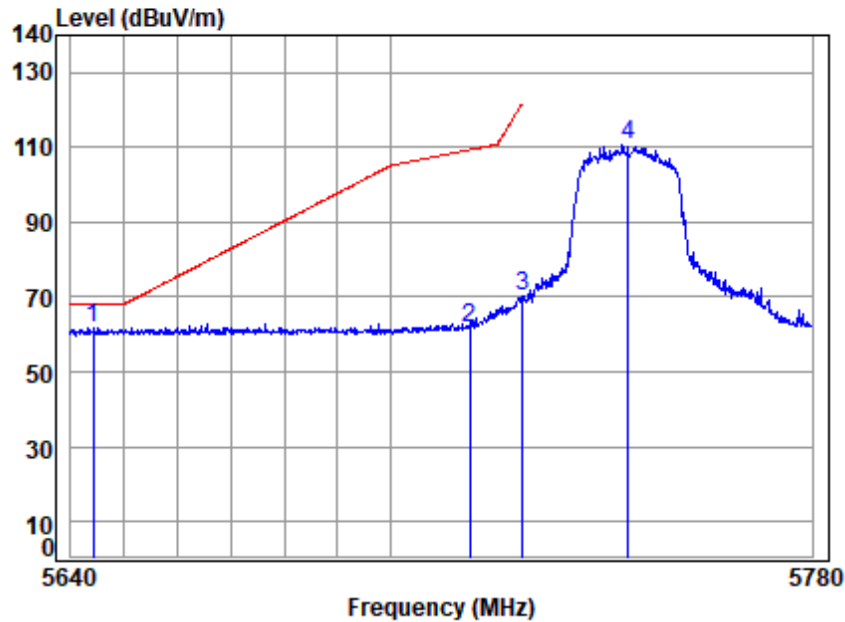
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5745 Band edge
: 5G WIFI 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 p 5644.289	19.69	34.43	31.53	39.06	61.65	68.20	-6.55	peak
2 5715.000	19.81	34.27	31.57	39.44	61.95	109.40	-47.45	peak
3 5725.000	19.83	34.25	31.57	47.90	70.41	122.20	-51.79	peak
4 5745.000	19.87	34.21	31.58	88.15	110.65	-----	-----	peak



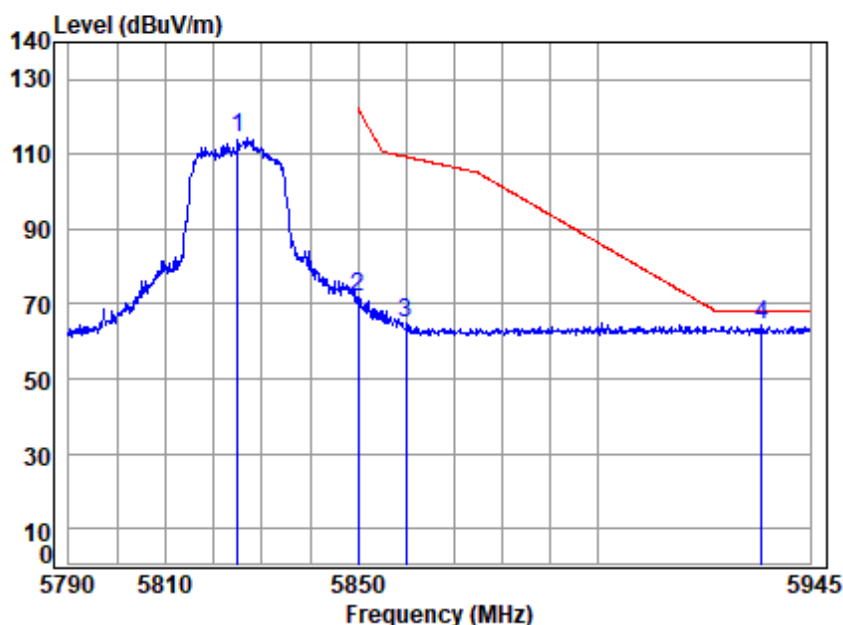
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 120 of 281

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5825 Band edge
: 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	20.00	34.35	31.62	91.55	114.28	-----	-----	peak
2	5850.000	20.05	34.40	31.63	48.82	71.64	122.20	-50.56	peak
3	5860.000	20.06	34.44	31.64	42.22	65.08	109.40	-44.32	peak
4 p	5934.800	20.19	34.67	31.67	41.17	64.36	68.20	-3.84	peak



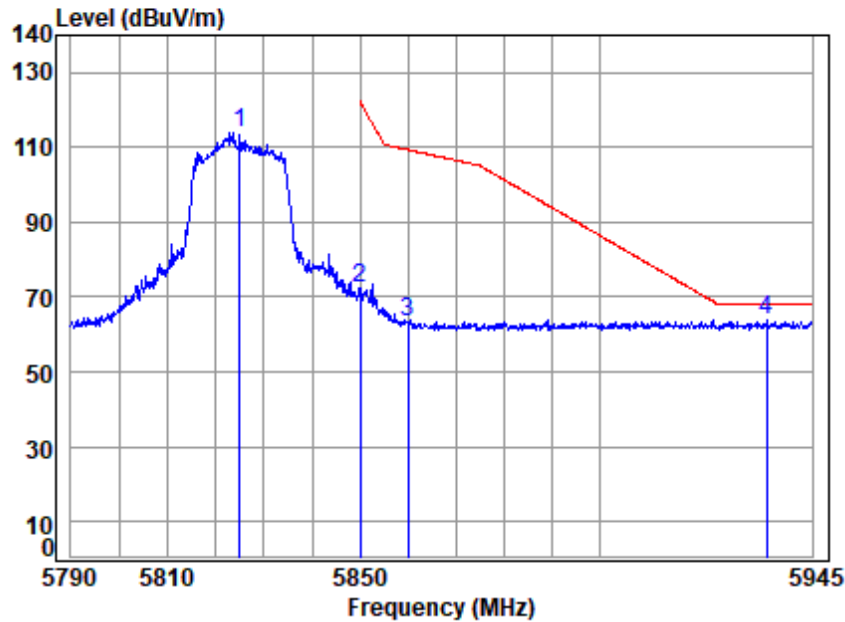
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

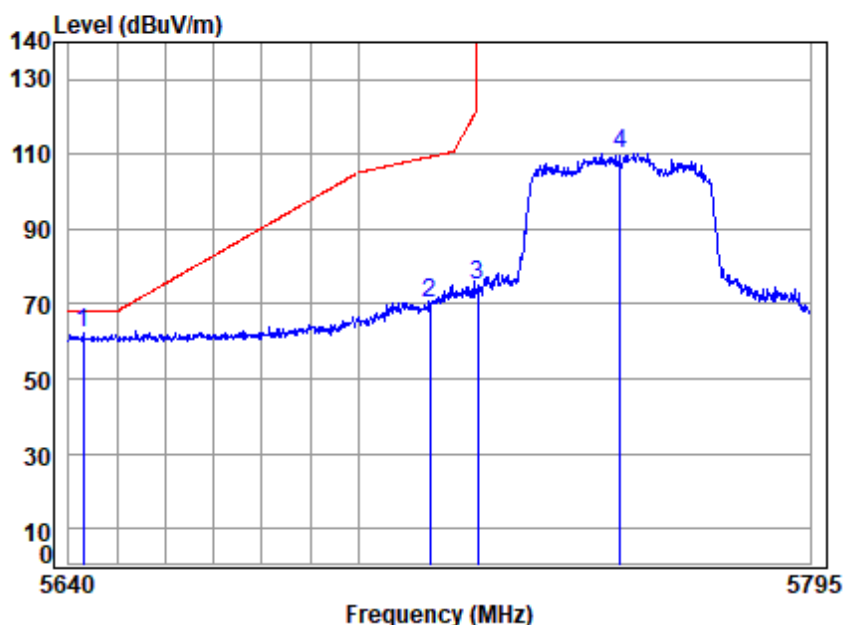


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5825 Band edge
: 5G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	20.00	34.35	31.62	91.29	114.02	-----	-----	peak
2	5850.000	20.05	34.40	31.63	49.39	72.21	122.20	-49.99	peak
3	5860.000	20.06	34.44	31.64	40.73	63.59	109.40	-45.81	peak
4 p	5935.427	20.19	34.67	31.67	40.77	63.96	68.20	-4.24	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

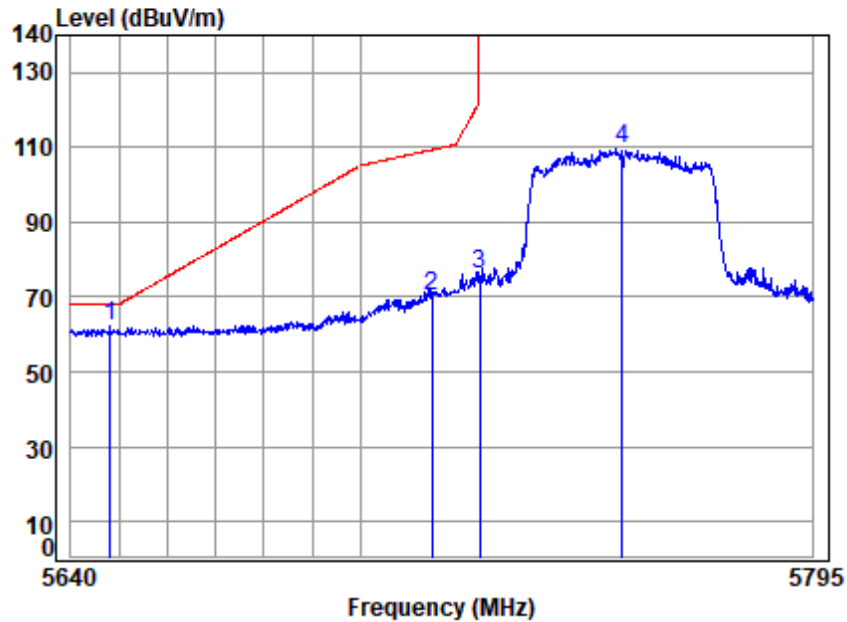


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5755 Band edge
: 5G WIFI 11AX40

		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 p	5642.906	19.69	34.44	31.53	39.59	62.19	68.20	-6.01	peak
2	5715.000	19.81	34.27	31.57	47.52	70.03	109.40	-39.37	peak
3	5725.000	19.83	34.25	31.57	52.56	75.07	122.20	-47.13	peak
4	5755.000	19.88	34.21	31.59	87.79	110.29	-----	-----	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

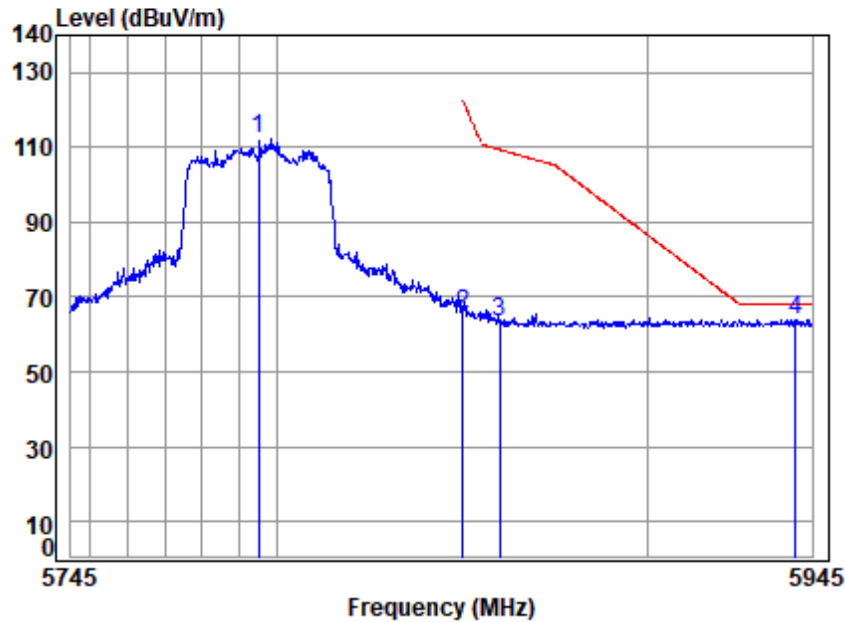


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5755 Band edge
: 5G WIFI 11AX40

		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 p	5648.110	19.70	34.41	31.53	39.66	62.24	68.20	-5.96 peak
2	5715.000	19.81	34.27	31.57	47.62	70.13	109.40	-39.27 peak
3	5725.000	19.83	34.25	31.57	53.88	76.39	122.20	-45.81 peak
4	5755.000	19.88	34.21	31.59	87.26	109.76	-----	----- peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

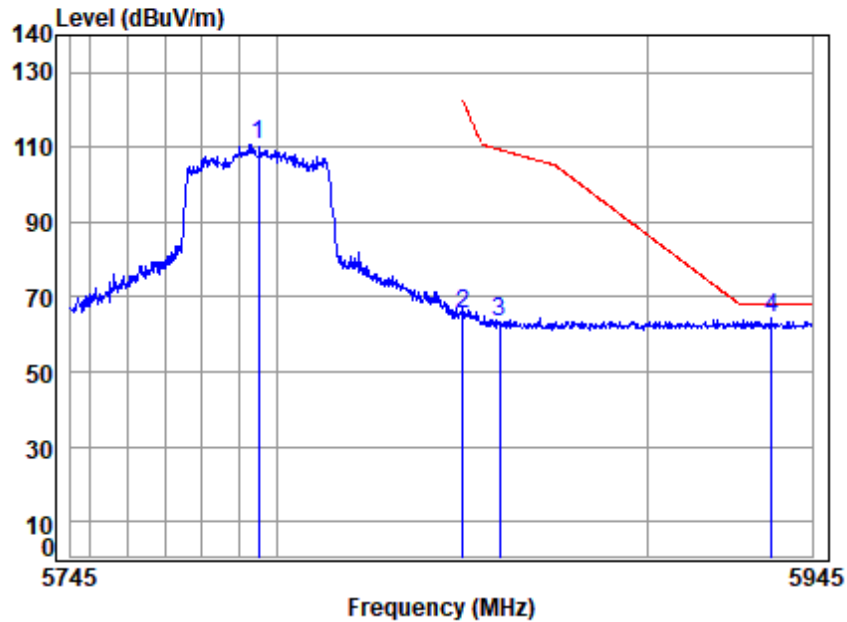


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5795 Band edge
: 5G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.95	34.29	31.60	89.62	112.26	-----	-----	peak
2	5850.000	20.05	34.40	31.63	42.73	65.55	122.20	-56.65	peak
3	5860.000	20.06	34.44	31.64	40.74	63.60	109.40	-45.80	peak
4 p	5940.323	20.20	34.68	31.67	40.89	64.10	68.20	-4.10	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

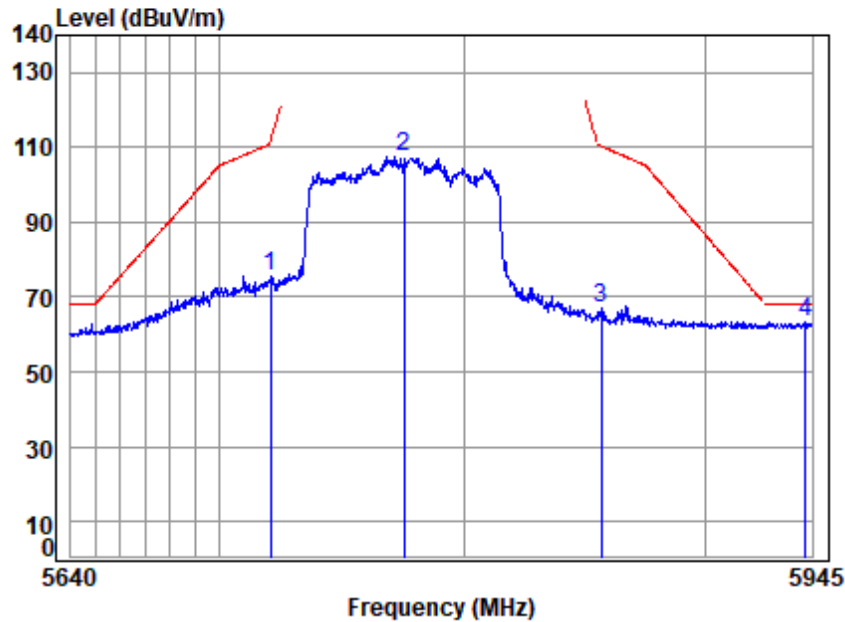


Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5795 Band edge
: 5G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.95	34.29	31.60	88.27	110.91	-----	-----	peak
2	5850.000	20.05	34.40	31.63	42.90	65.72	122.20	-56.48	peak
3	5860.000	20.06	34.44	31.64	40.37	63.23	109.40	-46.17	peak
4 p	5934.024	20.19	34.67	31.67	40.96	64.15	68.20	-4.05	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle

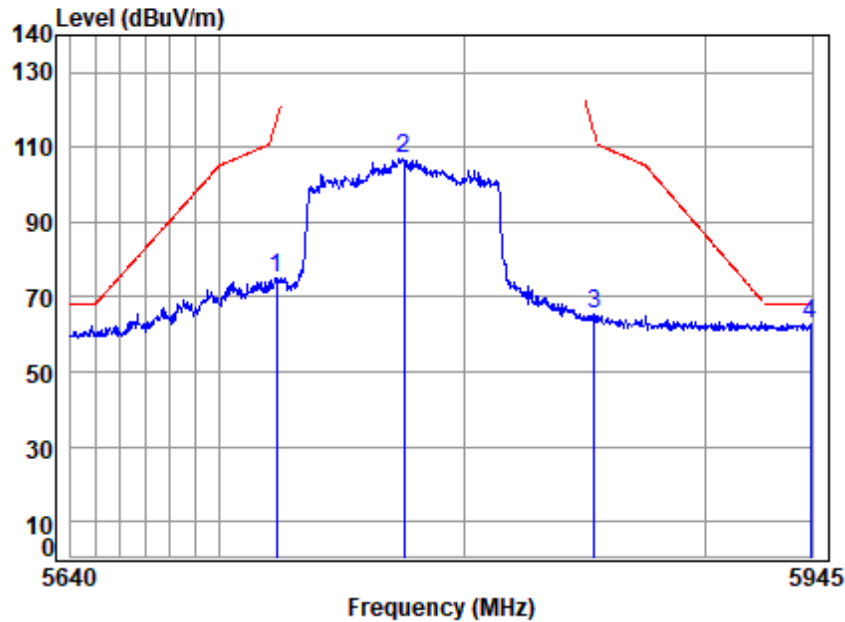


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03498AT
Mode : 5775 Band edge
: 5G WIFI 11AX80

		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	5720.773	19.82	34.26	31.57	53.01	75.52	112.56	-37.04 peak
2	5775.000	19.92	34.25	31.60	85.05	107.62	-----	----- peak
3	5856.432	20.06	34.43	31.63	44.46	67.32	110.40	-43.08 peak
4 p	5942.183	20.20	34.68	31.67	40.01	63.22	68.20	-4.98 peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03498AT
Mode : 5775 Band edge
: 5G WIFI 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	5723.184	19.83	34.25	31.57	52.58	75.09	118.06	-42.97 peak
2	5775.000	19.92	34.25	31.60	84.60	107.17	-----	----- peak
3	5853.657	20.05	34.41	31.63	42.54	65.37	113.86	-48.49 peak
4 p	5944.374	20.21	34.69	31.67	39.42	62.65	68.20	-5.55 peak



7.5 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2
Test Method: ANSI C63.10 (2020) Section 12.2

7.5.1 E.U.T. Operation

Operating Environment:

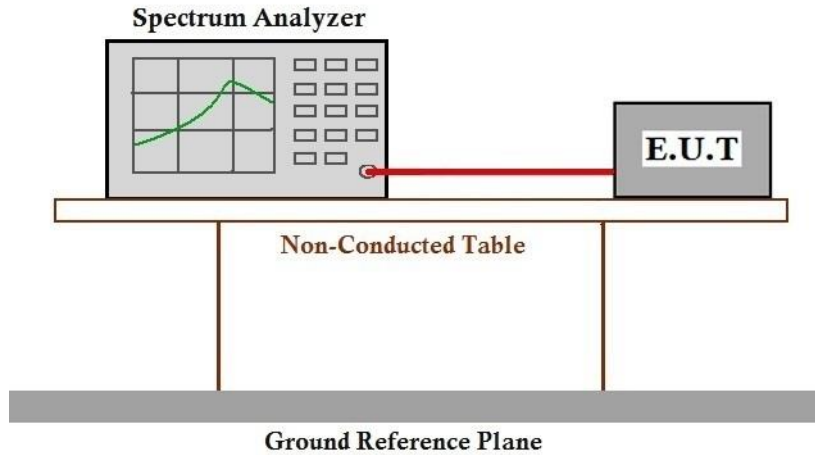
Temperature: 24.7 °C Humidity: 39.4 % RH Atmospheric Pressure: 1020 mbar

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.



7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2020) Section 12.5.3

7.6.1 E.U.T. Operation

Operating Environment:

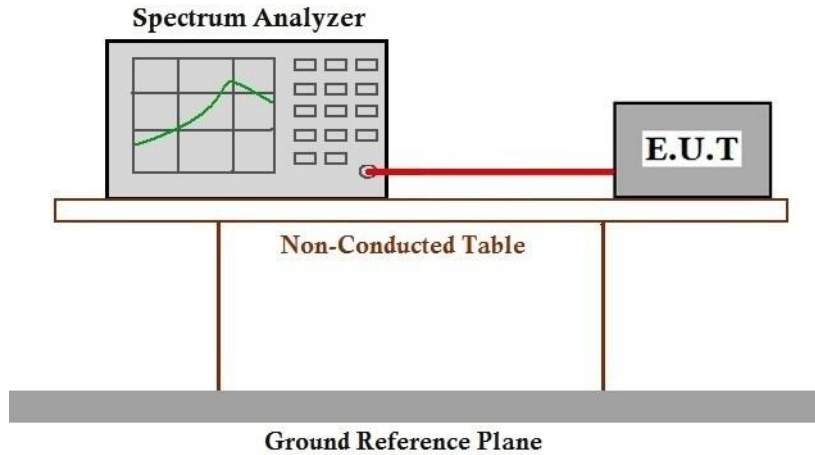
Temperature: 24.7 °C Humidity: 39.4 % RH Atmospheric Pressure: 1020 mbar

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 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2020) Section 12.5.2

7.7.1 E.U.T. Operation

Operating Environment:

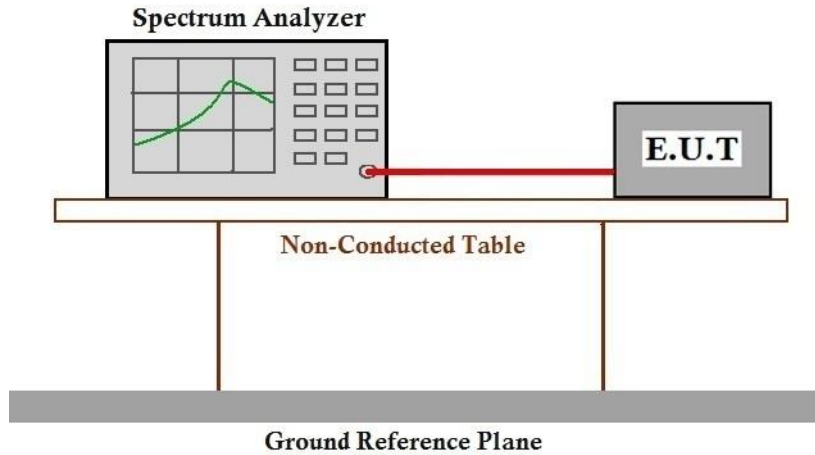
Temperature: 24.7 °C Humidity: 39.4 % RH Atmospheric Pressure: 1020 mbar

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 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2020) Section 12.4

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 39.4 % RH Atmospheric Pressure: 1020 mbar

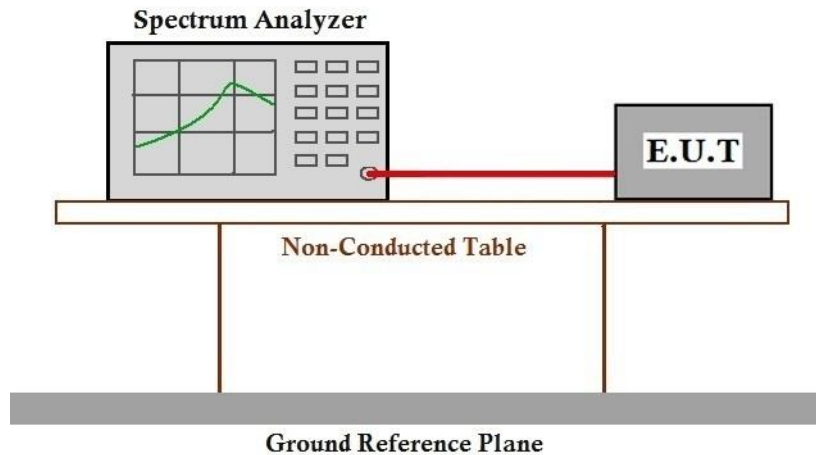


7.8.2 Test Mode Description

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.
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.



7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details



7.9 Frequency Stability

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

Test Method: ANSI C63.10 (2020) Section 6.8

7.9.1 E.U.T. Operation

Operating Environment:

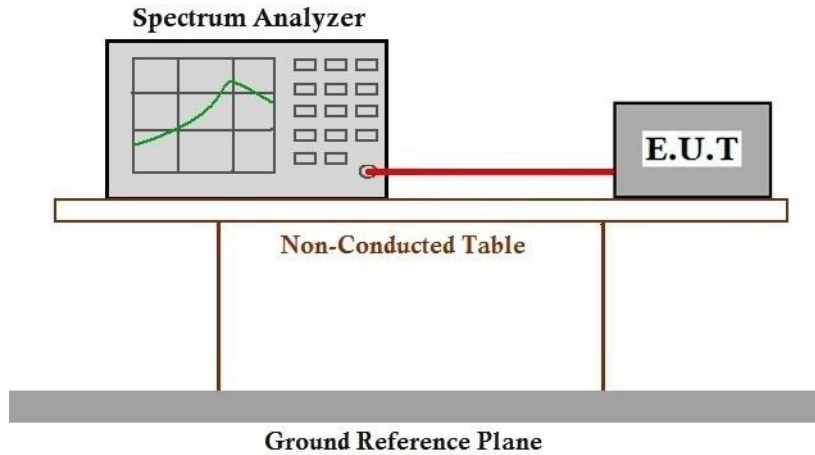
Temperature: 24.7 °C Humidity: 39.4 % RH Atmospheric Pressure: 1020 mbar

7.9.2 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.



7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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

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

Test Method: ANSI C63.10 (2020) Section 12.5.1

Limit:

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

7.10.1 E.U.T. Operation

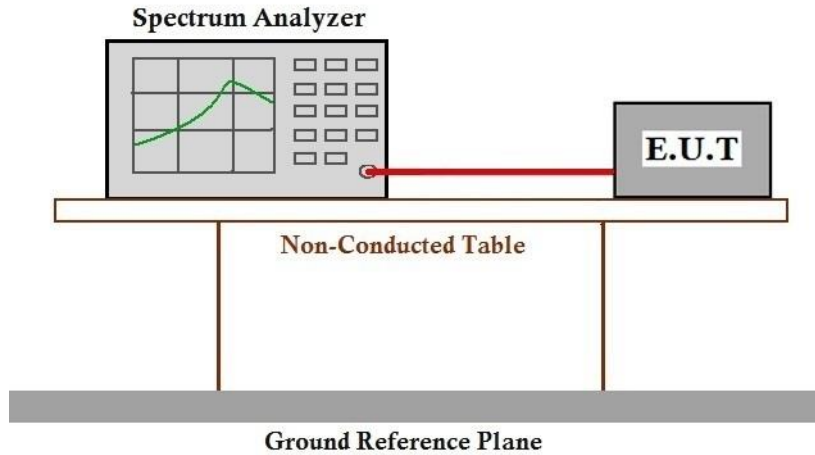
Operating Environment:

Temperature: 24.7 °C Humidity: 39.4 % 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 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

Humidity: 39.4 % RH

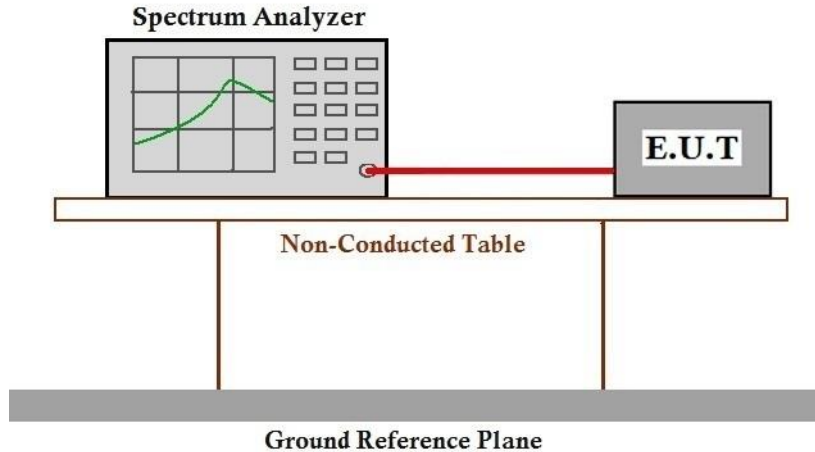
Atmospheric Pressure: 1020 mbar

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

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Setup Photo for SZCR2508003498AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2508003498AT



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	/	/	2.097	2.114	99.20	0.04	0.03
		5200	/	/	2.097	2.114	99.20	0.04	0.03
		5240	/	/	2.097	2.114	99.20	0.04	0.03
		5745	/	/	2.095	2.112	99.20	0.04	0.03
		5785	/	/	2.096	2.113	99.20	0.04	0.03
		5825	/	/	2.097	2.113	99.24	0.03	0.03
802.11n (HT20)	MIMO	5180	/	/	5.328	5.346	99.66	0.01	0.03
		5200	/	/	5.327	5.344	99.68	0.01	0.00
		5240	/	/	5.328	5.346	99.66	0.01	0.04
		5745	/	/	5.328	5.344	99.70	0.01	0.00
		5785	/	/	5.328	5.344	99.70	0.01	0.03
		5825	/	/	5.327	5.344	99.68	0.01	0.03
802.11n (HT40)	MIMO	5190	/	/	5.412	5.430	99.67	0.01	0.04
		5230	/	/	5.411	5.428	99.69	0.01	0.03
		5755	/	/	5.414	5.430	99.71	0.01	0.04
		5795	/	/	5.412	5.428	99.71	0.01	0.00
802.11ac (VHT20)	MIMO	5180	/	/	5.332	5.350	99.66	0.01	0.04
		5200	/	/	5.332	5.348	99.70	0.01	0.00
		5240	/	/	5.331	5.348	99.68	0.01	0.00
		5745	/	/	5.332	5.348	99.70	0.01	0.00
		5785	/	/	5.332	5.350	99.66	0.01	0.04
		5825	/	/	5.331	5.348	99.68	0.01	0.00
802.11ac (VHT40)	MIMO	5190	/	/	5.415	5.432	99.69	0.01	0.03
		5230	/	/	5.415	5.432	99.69	0.01	0.03
		5755	/	/	5.416	5.432	99.71	0.01	0.04
		5795	/	/	5.416	5.432	99.71	0.01	0.00
802.11ac	MIMO	5210	/	/	5.396	5.413	99.69	0.01	0.03



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800349805

Page: 145 of 281

(VHT80)		5775	/	/	5.396	5.412	99.70	0.01	0.04
802.11ax (HEW20)	MIMO	5180	RU242	Left	5.336	5.353	99.68	0.01	0.03
		5200	RU242	Left	5.338	5.356	99.66	0.01	0.04
		5240	RU242	Left	5.337	5.354	99.68	0.01	0.00
		5745	RU242	Left	5.338	5.356	99.66	0.01	0.04
		5785	RU242	Left	5.337	5.354	99.68	0.01	0.03
		5825	RU242	Left	5.338	5.356	99.66	0.01	0.04
802.11ax (HEW40)	MIMO	5190	RU484	Left	5.390	5.408	99.67	0.01	0.04
		5230	RU484	Left	5.390	5.408	99.67	0.01	0.04
		5755	RU484	Left	5.390	5.406	99.70	0.01	0.00
		5795	RU484	Left	5.390	5.406	99.70	0.01	0.00
802.11ax (HEW80)	MIMO	5210	RU996	Left	5.264	5.281	99.68	0.01	0.04
		5775	RU996	Left	5.264	5.280	99.70	0.01	0.04



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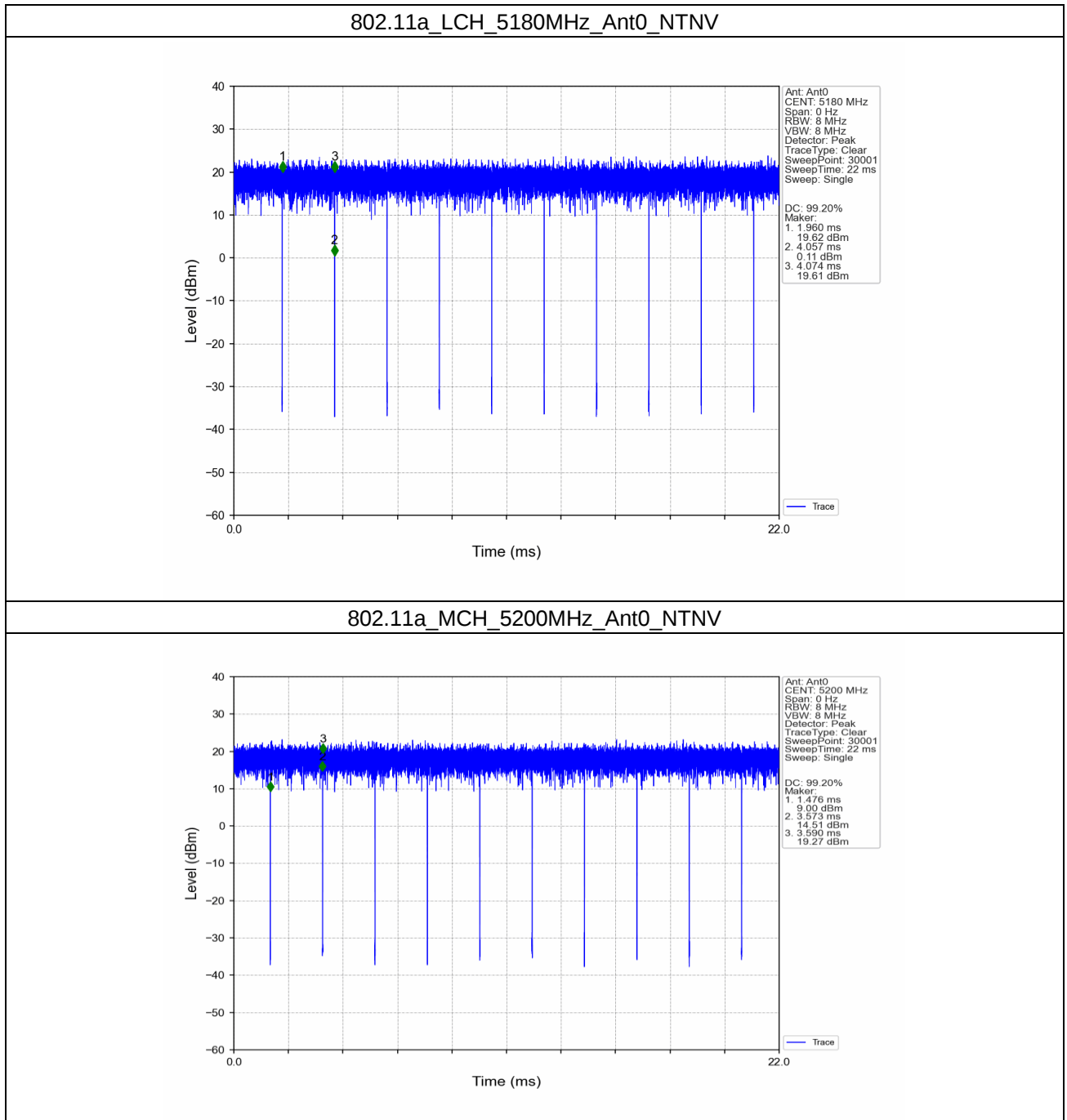
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Shenzhen Branch (SZEMC) Laboratory

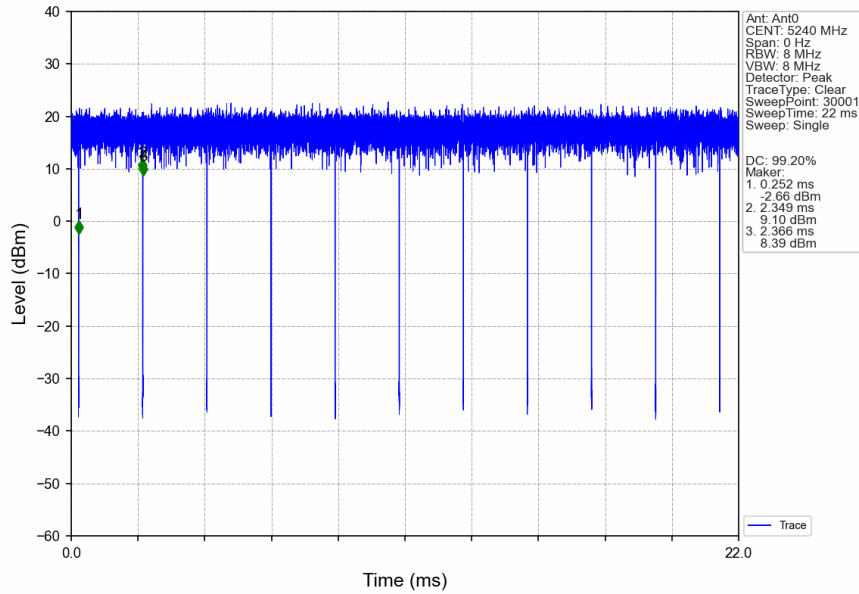
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1.2 Test Graph

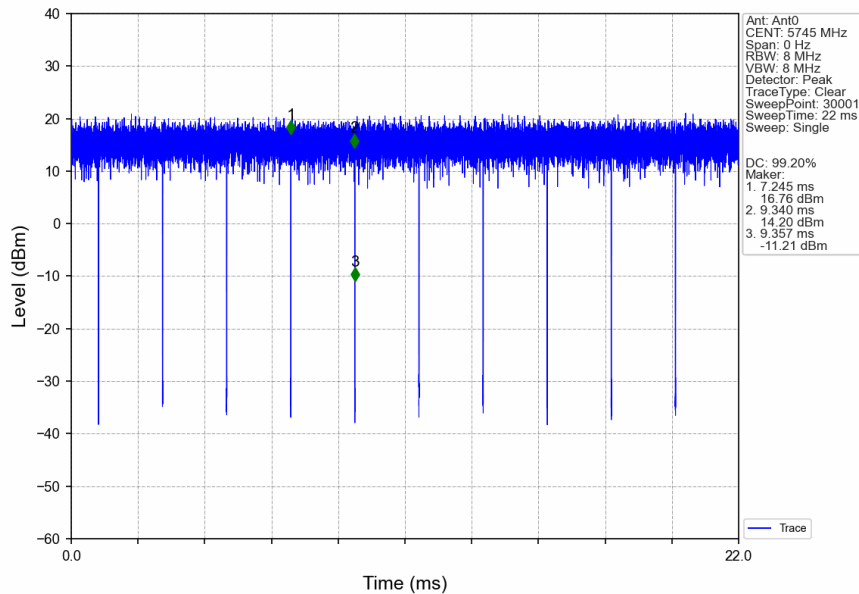
1.2.1 Ant0



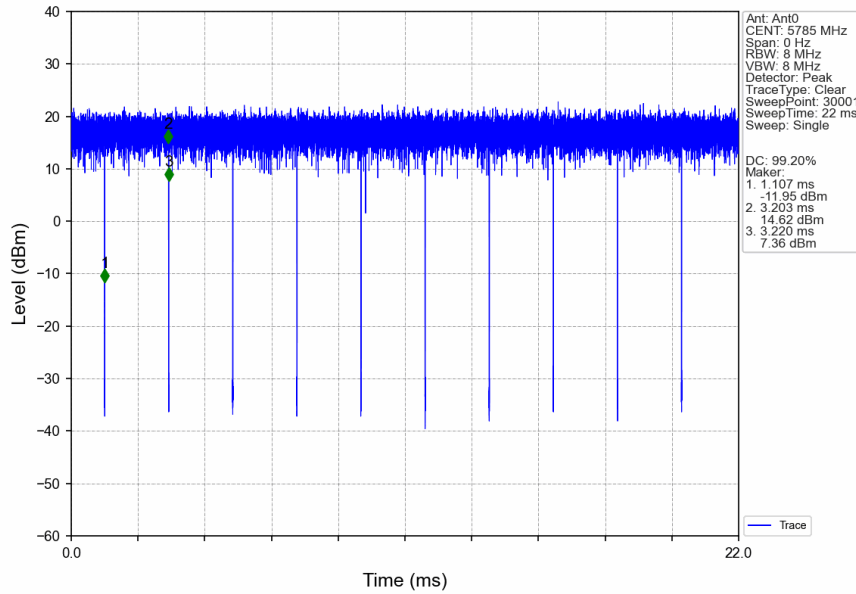
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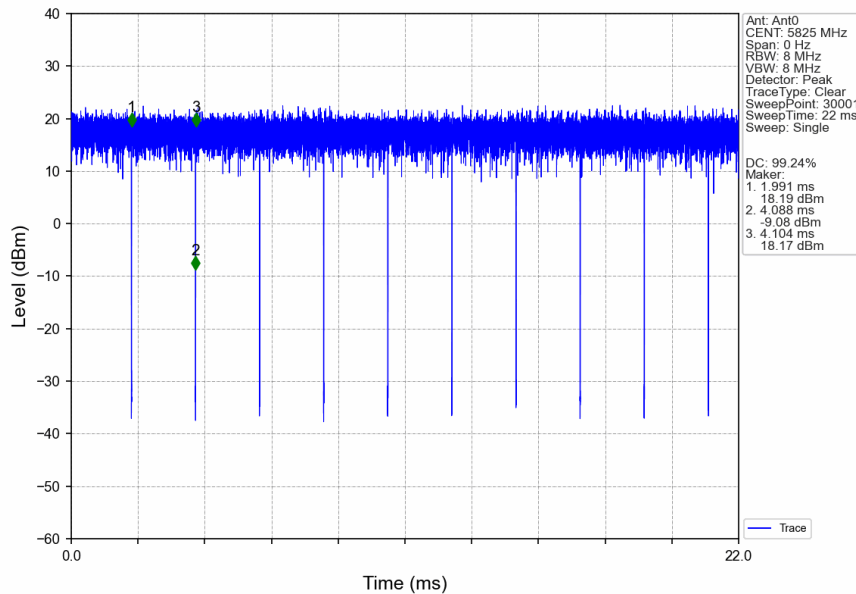
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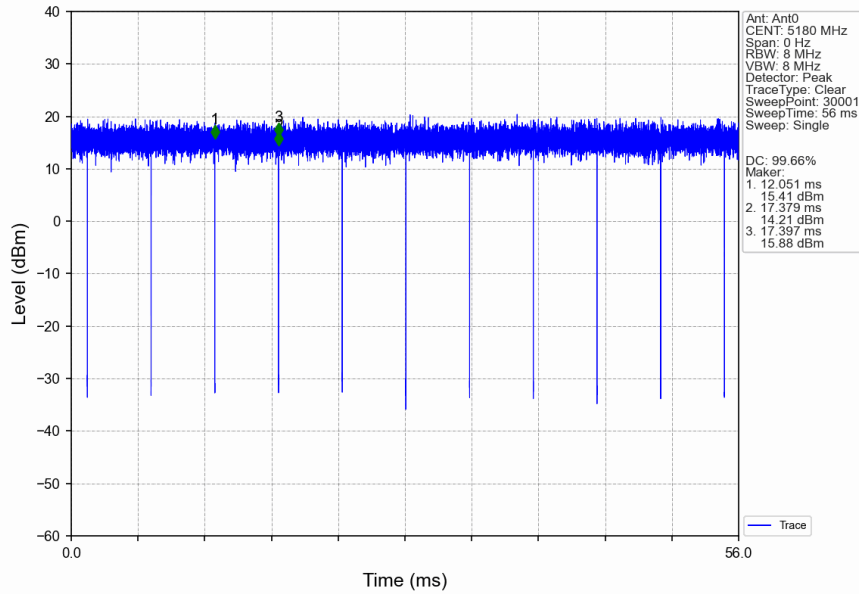
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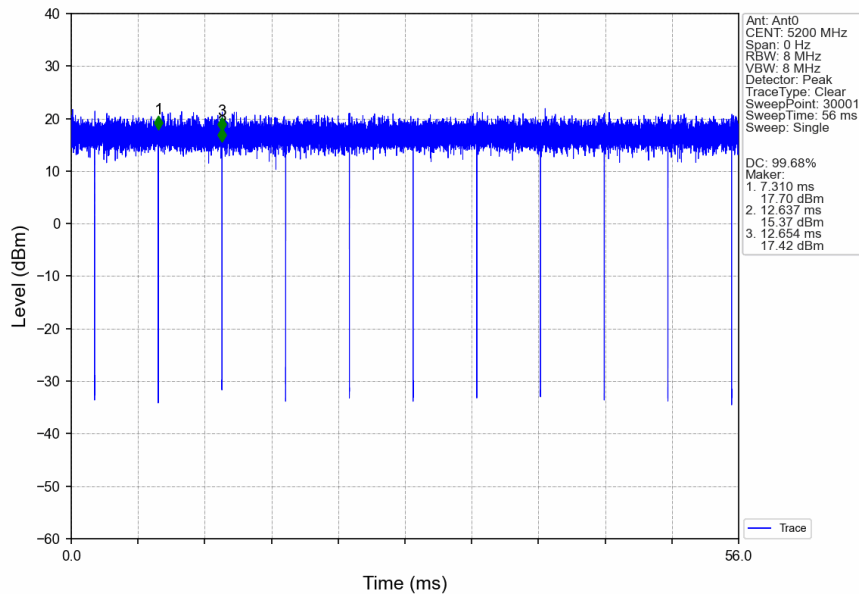
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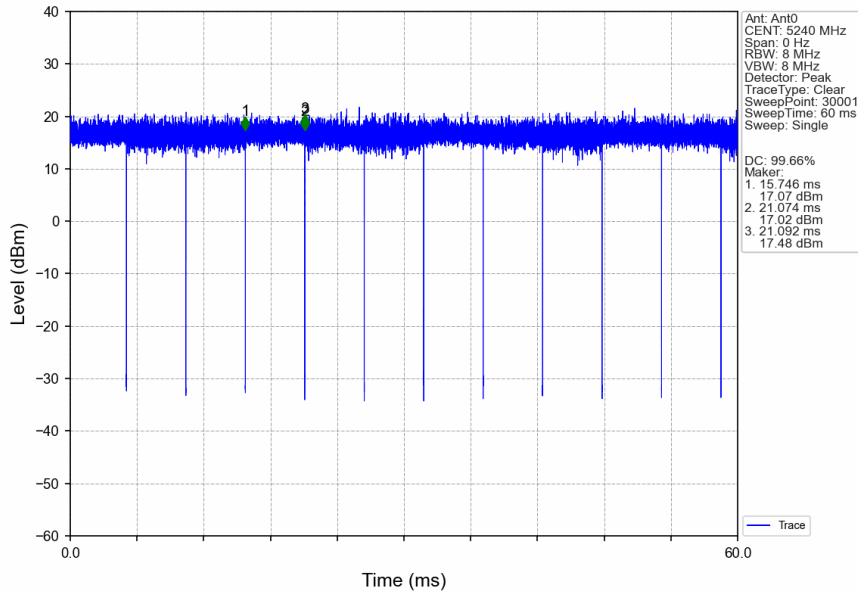
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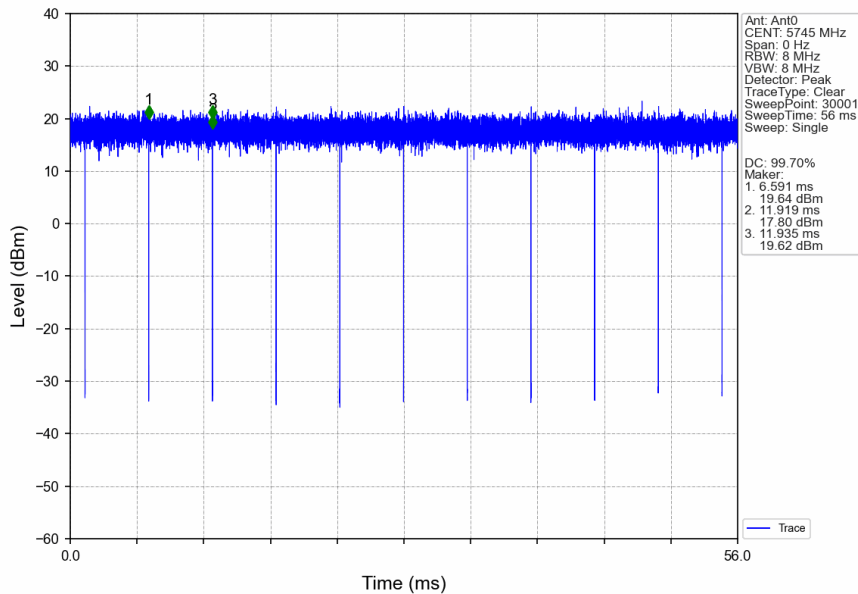
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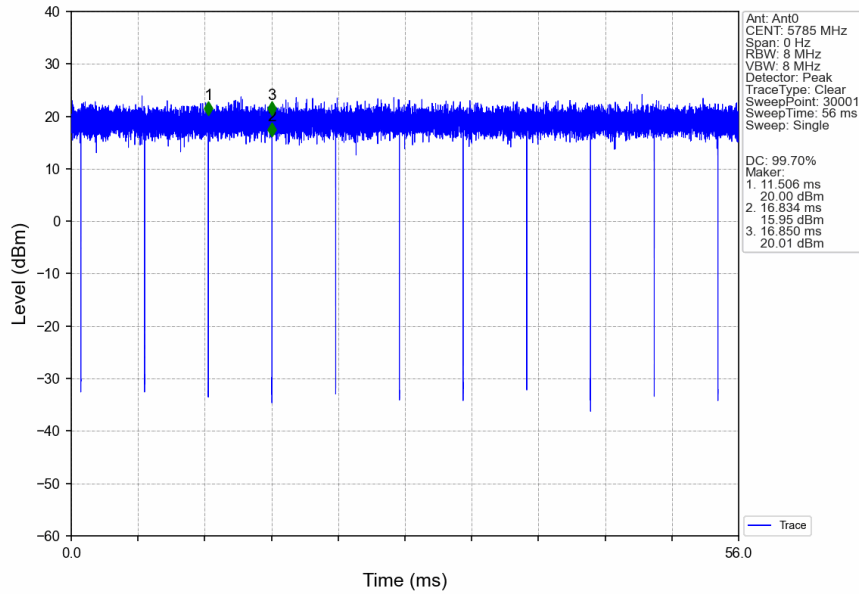
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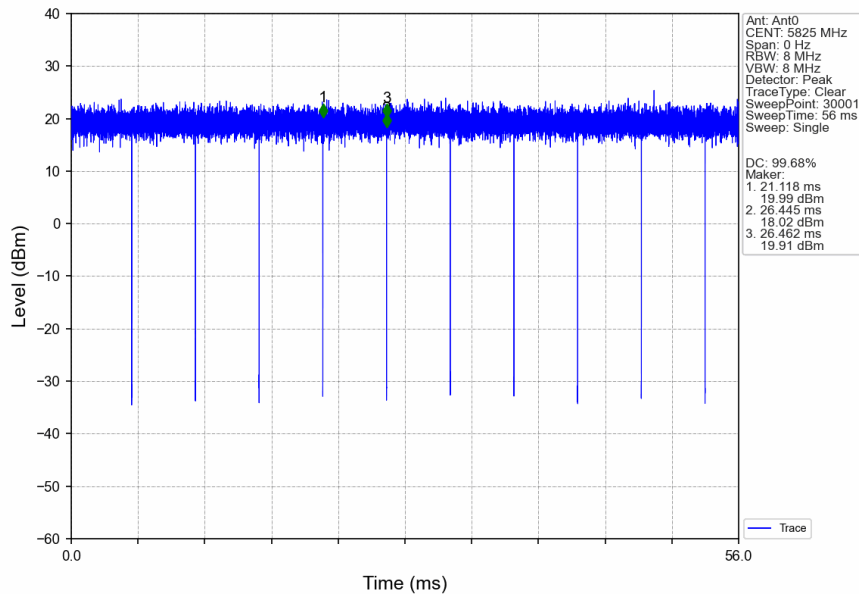
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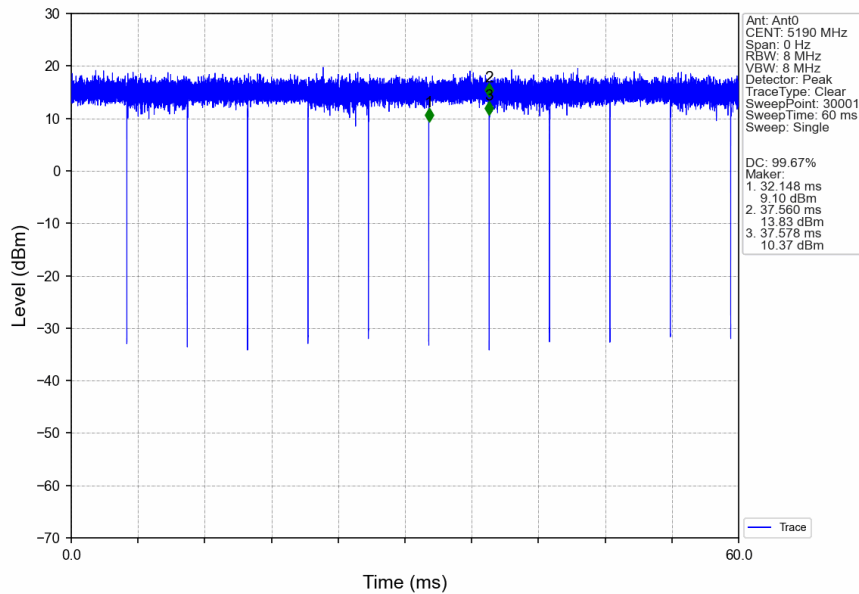
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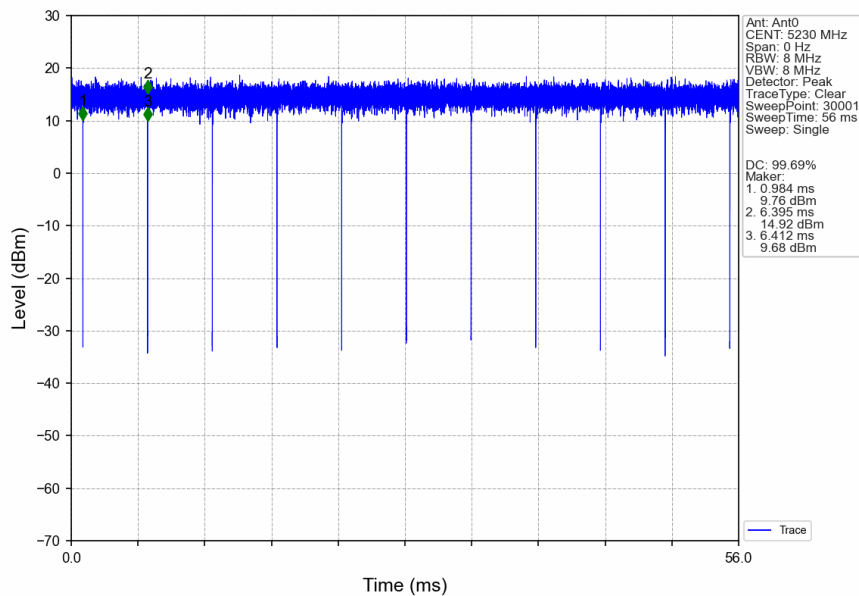
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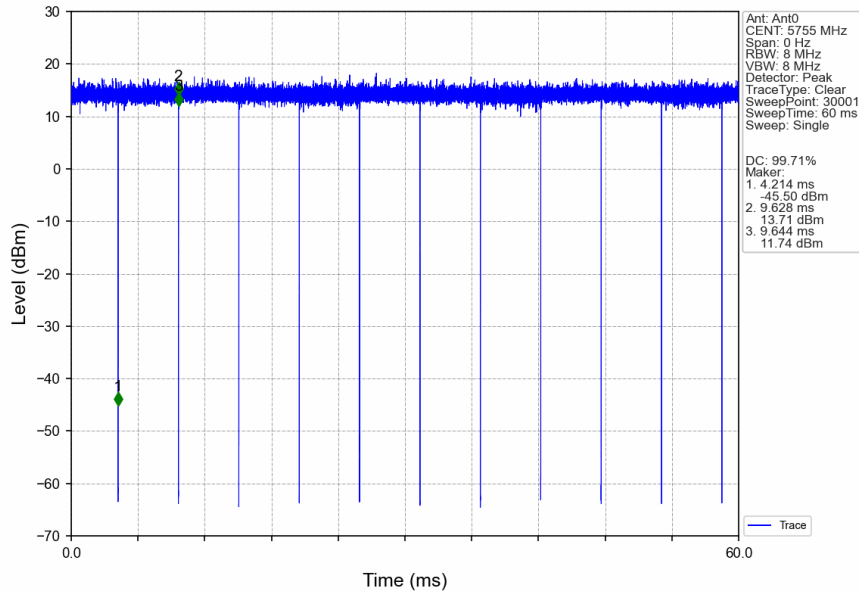
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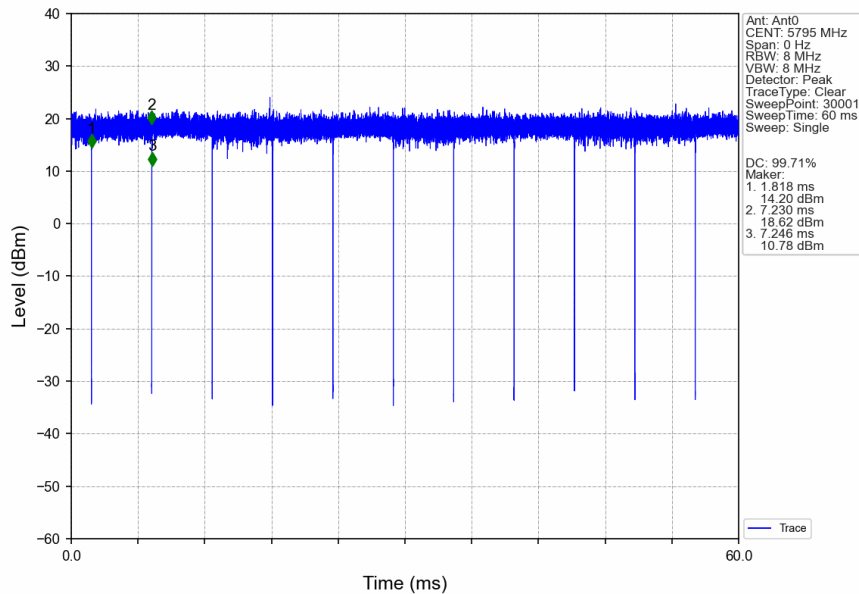
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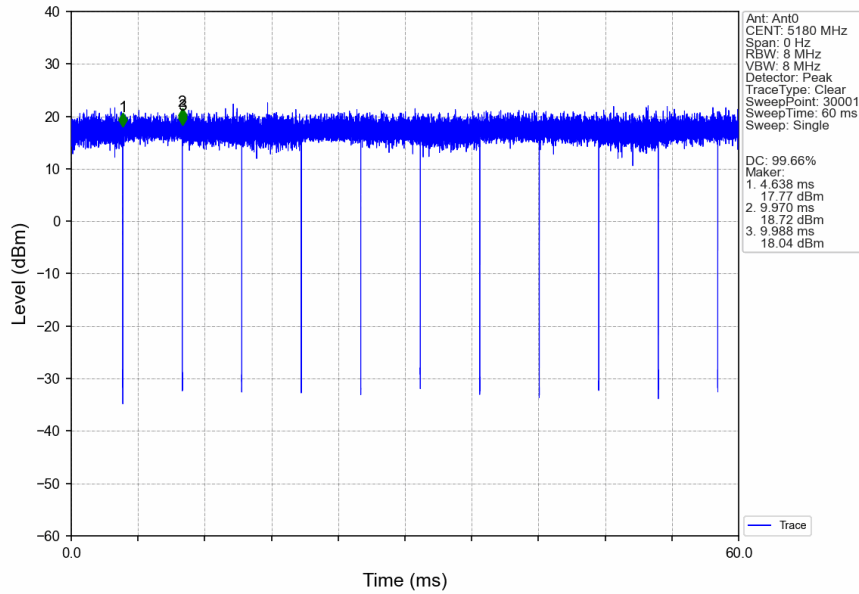
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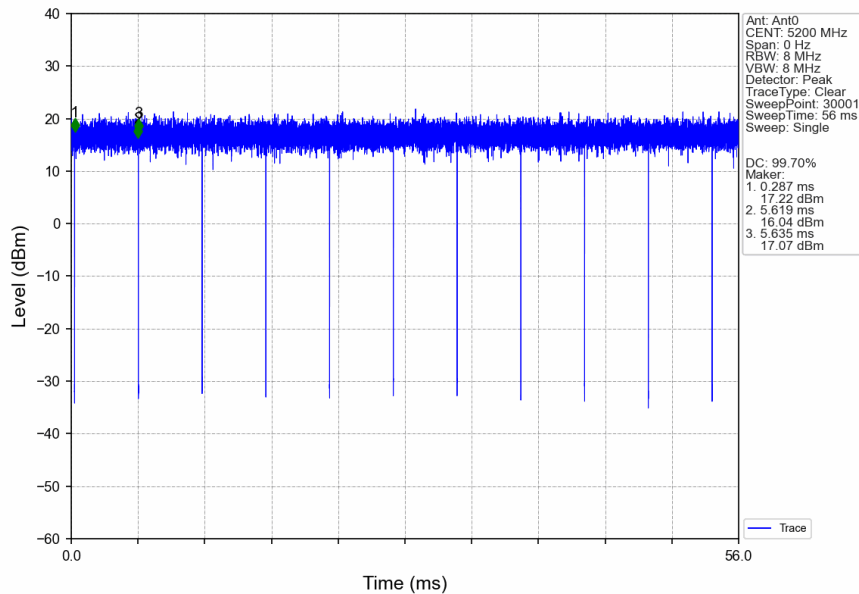
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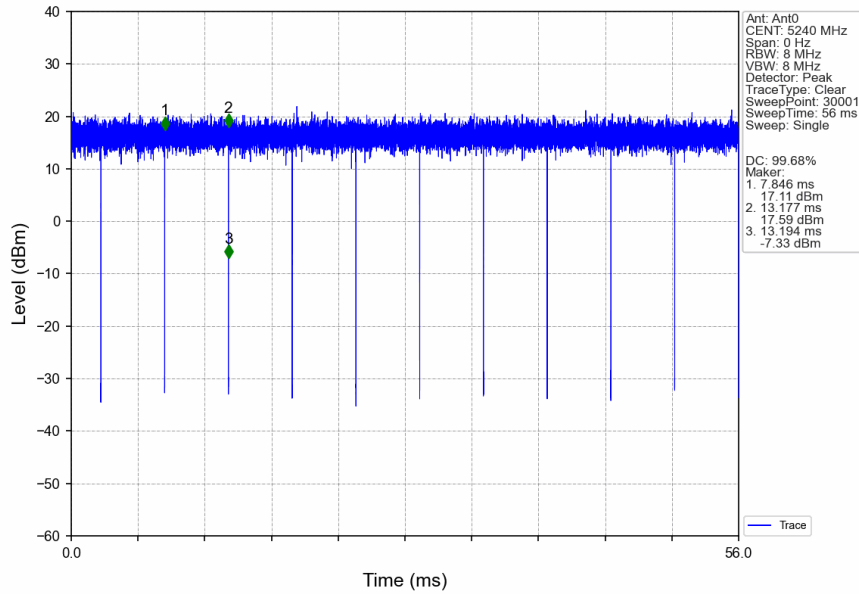
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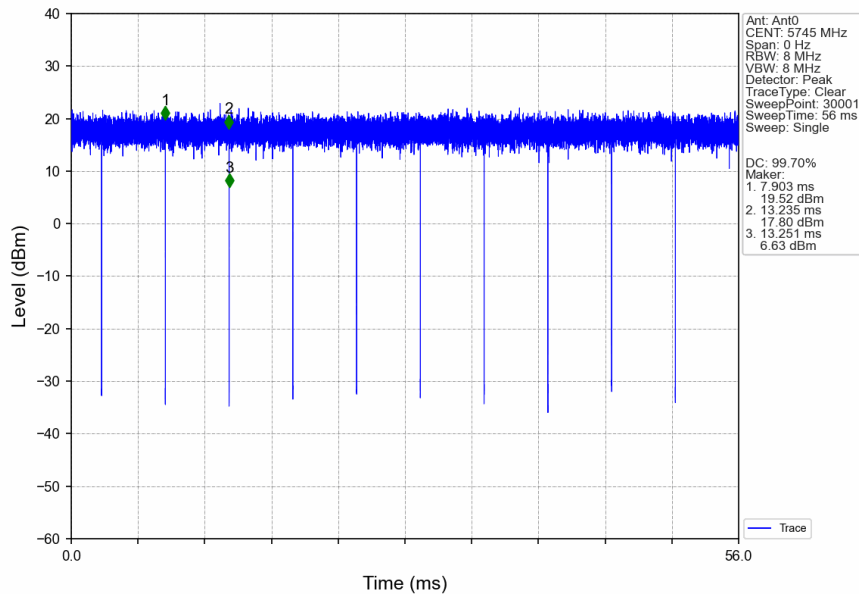
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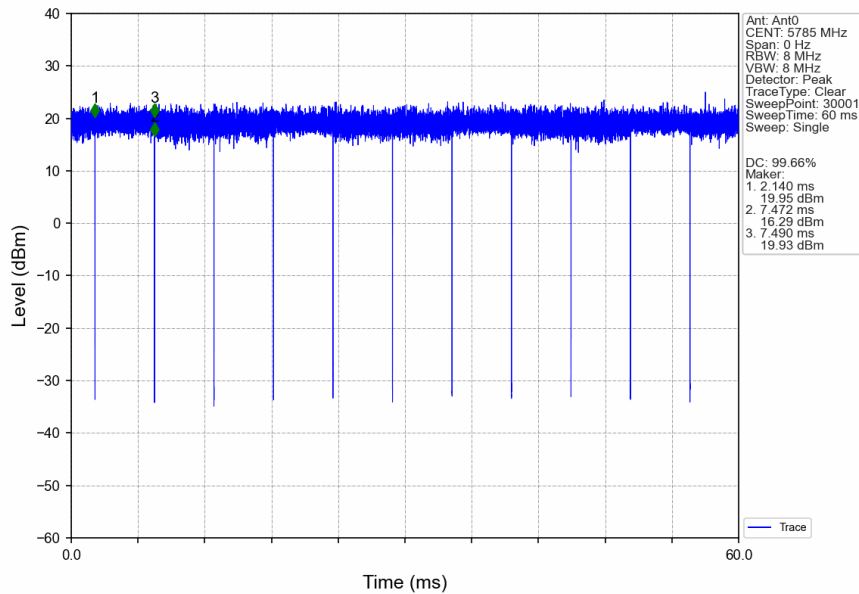
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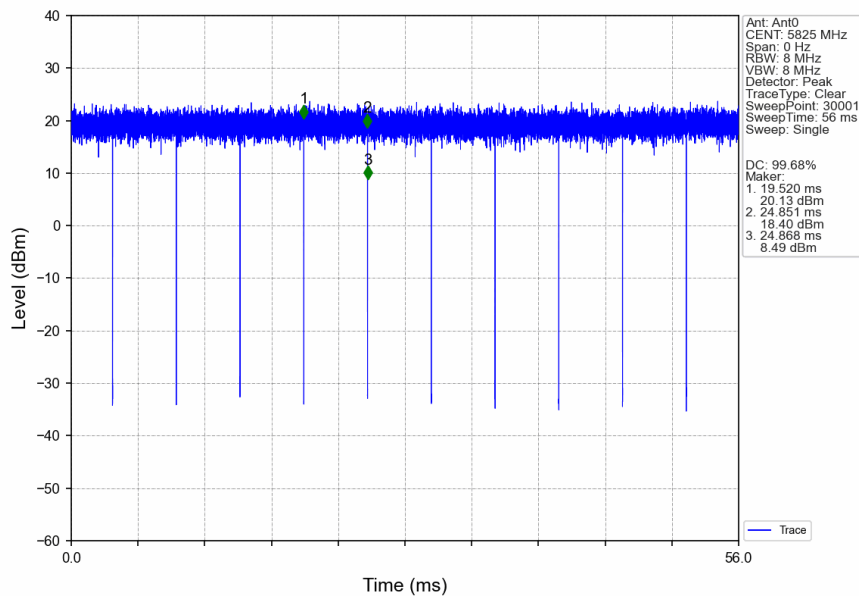
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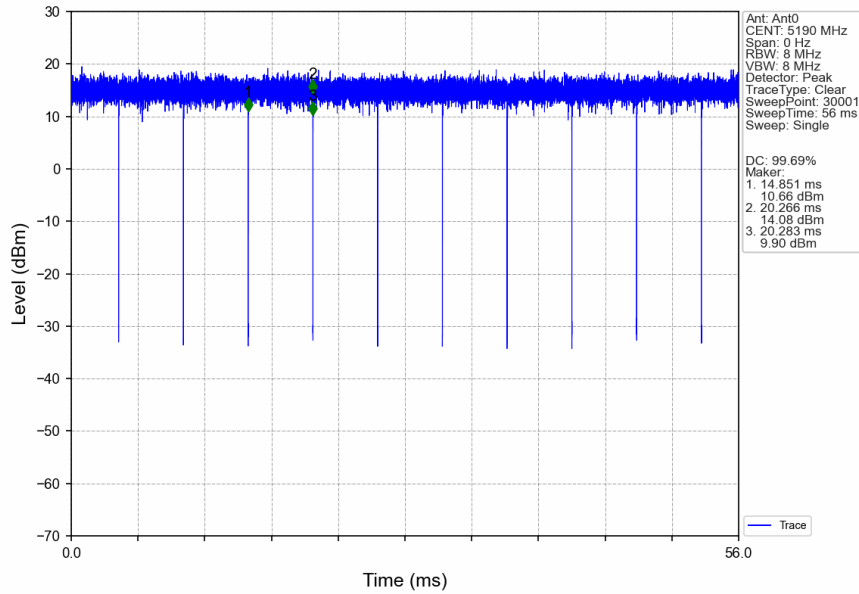
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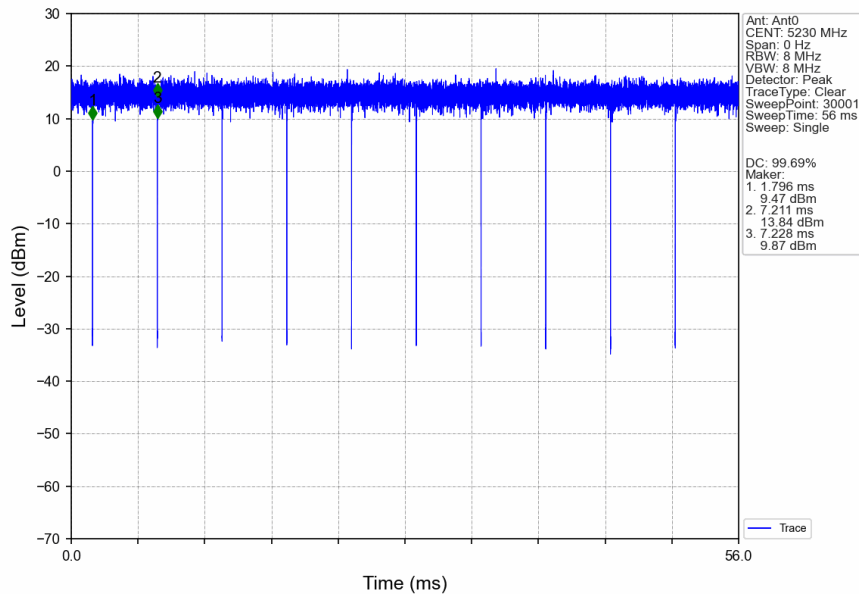
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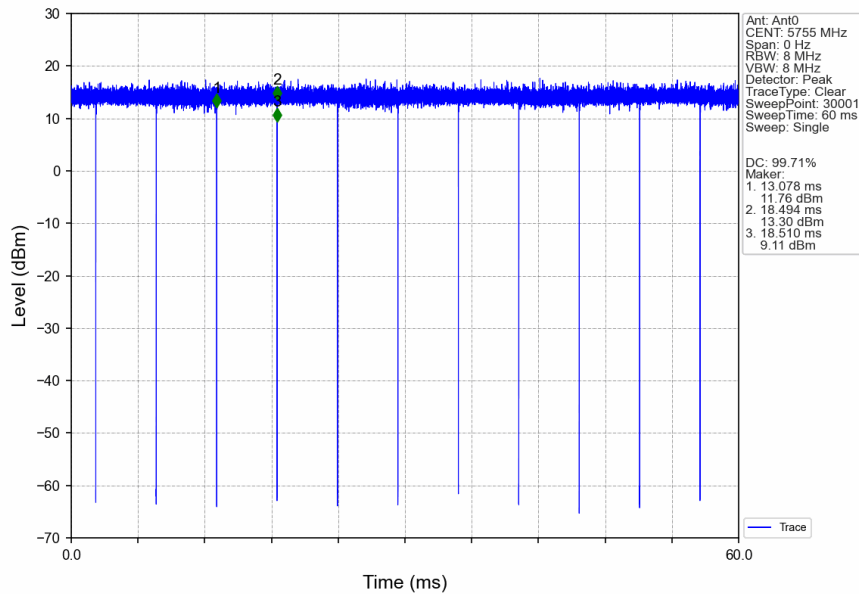
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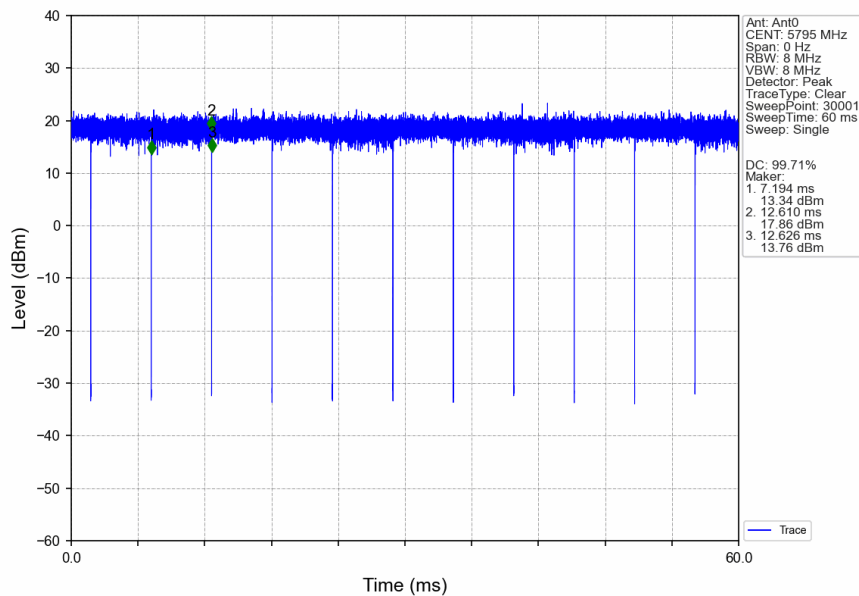
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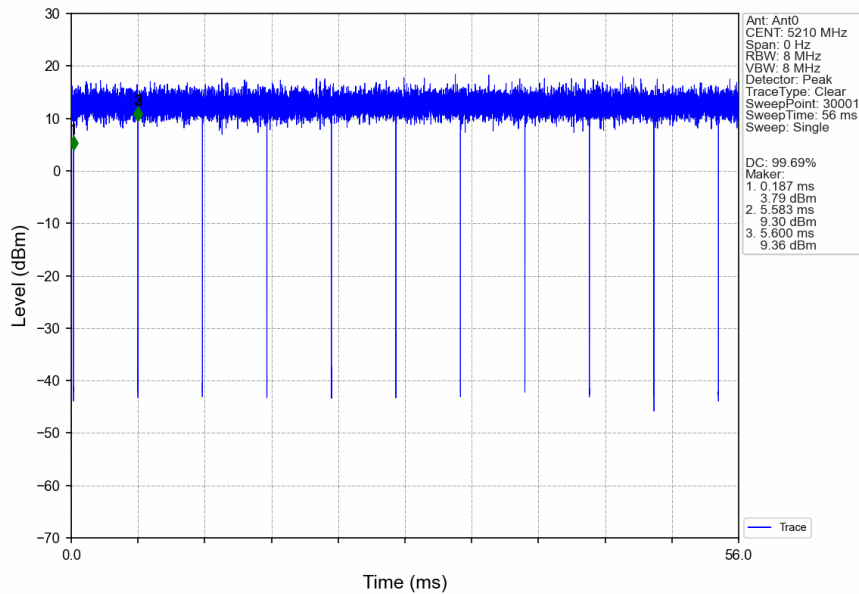
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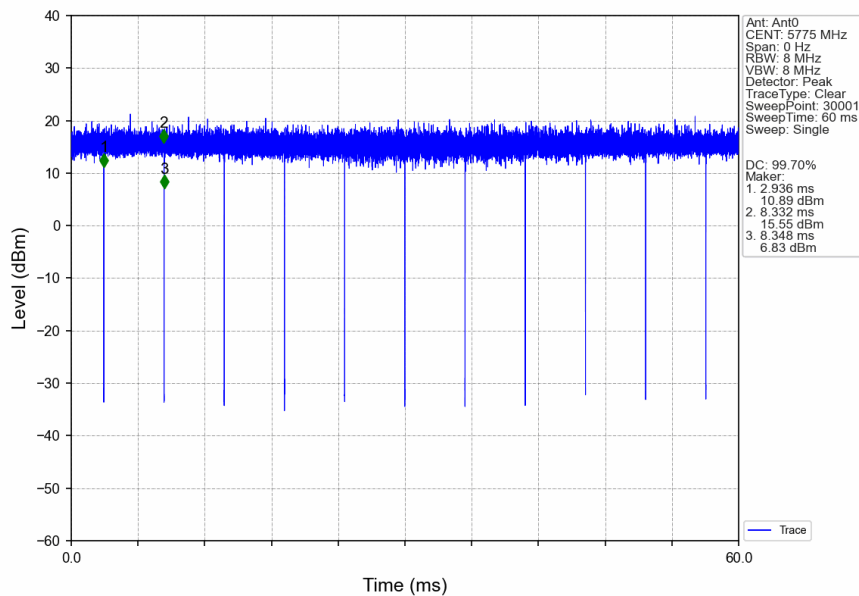
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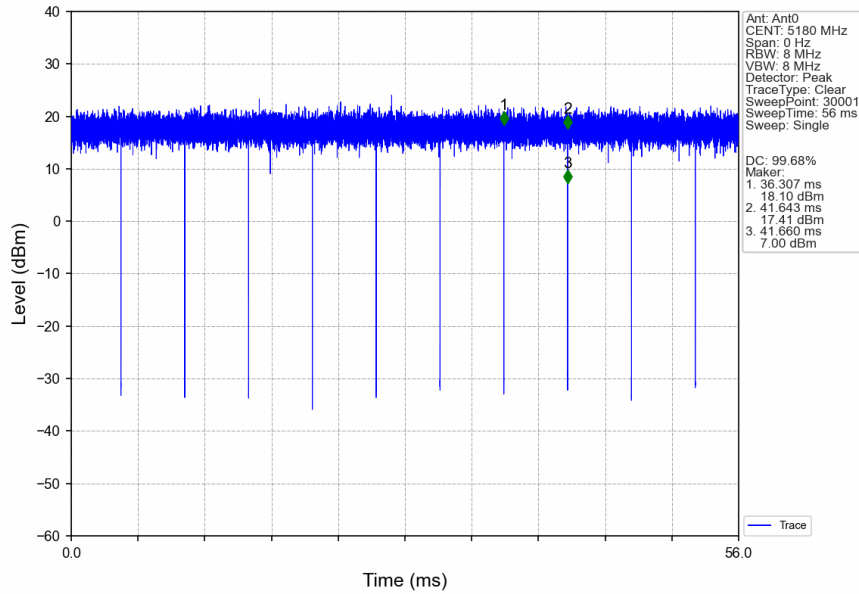
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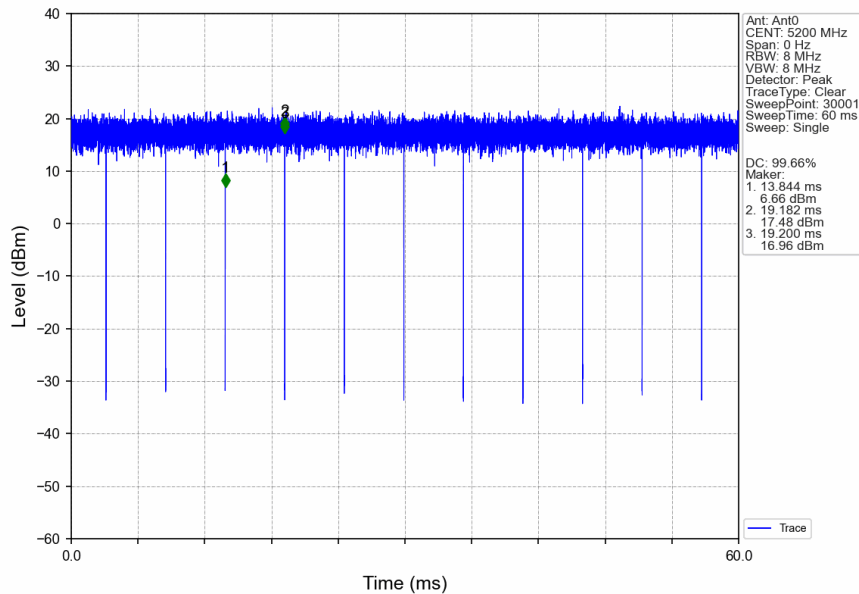
802.11ac(VHT80)_MCH_5775MHz_Ant0_NTNV



802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant0_NTNV



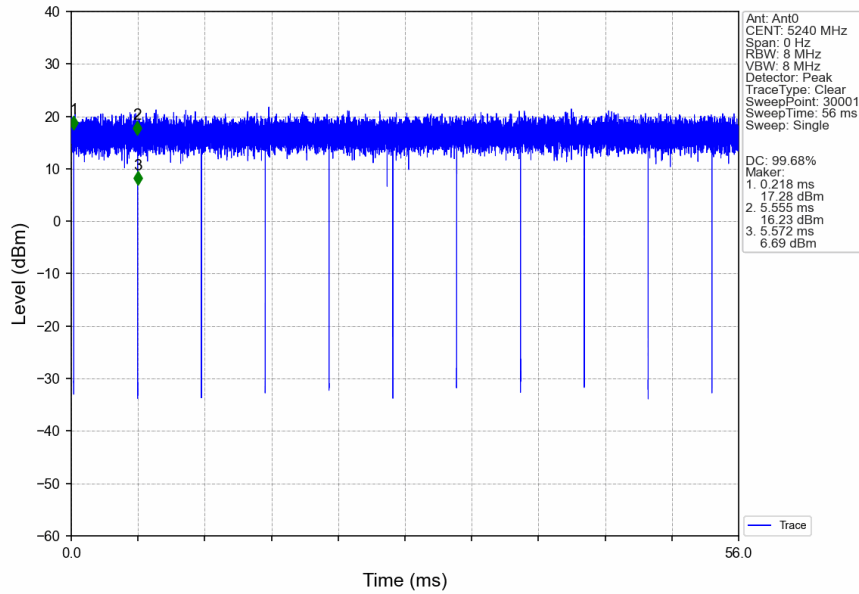
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant0_NTNV



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802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant0_NTNV



802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant0_NTNV

