

TEST REPORT

Application No.: SHCR2407001328AT
FCC ID: 2BHTA-B282E
Applicant: SYNLAN TECHNOLOGY PTE. LTD.
Address of Applicant: 7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE SINGAPORE (038987)
Manufacturer: SYNLAN TECHNOLOGY PTE. LTD.
Address of Manufacturer: 7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE SINGAPORE (038987)
Factory: Jixian Branch of Xi'an BYD Electronics Co., Ltd.
Address of Factory: No. 5, Jixian Avenue, Jixian Industrial Park, High-tech Zone, Xi'an
Equipment Under Test (EUT):
EUT Name: iFLYTEK AINOTE Air 2
Model No.: XF-DX-B282E
Trade Mark: iFLYTEK
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-07-08
Date of Test: 2024-07-10 to 2024-08-24
Date of Issue: 2024-08-27

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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

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Revision Record			
Version	Description	Date	Remark
00	Original	2024-08-27	/

Authorized for issue by:				
Tested By		Bill Wu		
		Bill Wu/Project Engineer		
Approved By		Parlam Zhan		
		Parlam Zhan / Reviewer		

2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.8V 2600mAh Rechargeable battery
Test Voltage:	AC 120V 60Hz

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(VHT20) / ax(HEW20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)/ ax(HEW40)	5190-5230	2
		802.11ac(VHT80)/ax(HEW80)	5210	1
	UNII Band III	802.11a/n(HT20)/ac(VHT20) / ax(HEW20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)/ ax(HEW40)	5755-5795	2
		802.11ac(VHT80)/ax(HEW80)	5775	1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)			
Date Rate:	802.11a:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7 802.11ac:VHT MCS0-MCS9 802.11ax: HEW MCS0-MCS11			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): 20MHz 802.11n(HT40)/ac(VHT40)/ax(HEW40): 40MHz 802.11ac(VHT80)/ax(HEW80): 80MHz			
Antenna Type:	PIFA Antenna			
Antenna Gain:	0.73 dBi (Provided by manufacturer)			
TPC Function:	Without TPC function			

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-

4.3 Power level setting using in test

Test Mode	802.11a	802.11n(HT20)	802.11ac(VHT20)	802.11ax(HEW20)
Channel	Ant 1	Ant 1	Ant 1	Ant 1
36	0x36	0x36	0x36	0x36
40	0x36	0x36	0x36	0x36
48	0x36	0x36	0x36	0x36
149	0x36	0x36	0x36	0x36
157	0x36	0x36	0x36	0x36
165	0x36	0x36	0x36	0x36
Test Mode	802.11n(HT40)	802.11ac(VHT40)	802.11ax(HEW40)	
Channel	Ant 1	Ant 1	Ant 1	
38	0x36	0x36	0x36	
46	0x36	0x36	0x36	
151	0x36	0x36	0x36	
159	0x36	0x36	0x36	
Test Mode	802.ac(VHT80)	802.ax(HEW80)		
Channel	Ant1	Ant 1		
42	0x36	0x36		
155	0x36	0x36		

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
3. Sample source: sent by customer.

4.6 Test Facility

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

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2023-12-19	2024-12-18
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2023-12-19	2024-12-18
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2023-08-01	2024-07-31
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2024-07-31	2025-07-30
Signal Generator	R&S	SMR20	SHEM006-1	2023-08-01	2024-07-31
Signal Generator	R&S	SMR20	SHEM006-1	2024-07-31	2025-07-30
Signal Generator	Agilent	N5182A	SHEM182-1	2023-08-01	2024-07-31
Signal Generator	Agilent	N5182A	SHEM182-1	2024-07-31	2025-07-30
Communication Tester	R&S	CMW270	SHEM183-1	2024-05-23	2025-05-22
Communication Tester	R&S	CMW500	SHEM268-1	2024-05-23	2025-05-22
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2023-08-01	2024-07-31
Power Sensor	Keysight	U2021XA * 4	SHEM293-1	2024-07-31	2025-07-30
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2023-12-19	2024-12-18
DC Power Supply	HP	6010A	SHEM222-1	2023-12-19	2024-12-18
Conducted test Cable	/	RF01~RF04	/	2023-12-19	2024-12-18
Switcher	Tonscend	JS0806	SHEM184-1	2023-08-01	2024-07-31
Switcher	Tonscend	JS0806	SHEM293-1	2024-07-31	2025-07-30
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Switcher+Power Sensor	TST	TSPS2023R	SHEM263-1	2023-08-01	2024-07-31
Switcher+Power Sensor	TST	TSPS2023R	SHEM263-1	2024-07-31	2025-07-30
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2023-12-19	2024-12-18
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2023-12-19	2024-12-18
Communication Tester	R&S	CMW500	SHEM268-1	2024-05-23	2025-05-22
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2023-12-19	2024-12-18
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2023-09-03	2025-09-02
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2023-04-17	2025-04-16
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2024-08-05	2026-08-04
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2023-09-03	2025-09-02
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2023-09-03	2025-09-02
Pre-Amplifier	HP	8447D	SHEM236-1	2023-12-19	2024-12-18
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2023-12-19	2024-12-18
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023-05-06	2026-05-05
RE test Cable	/	PT18-NMNM-10M	SHEM217-2	2023-12-19	2024-12-18
Test software	ESE	E3	Version: 6.111221a	/	/



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Conducted Emissions at Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2023/12/19	2024/12/18
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2023/12/19	2024/12/18
Line impedance stabilization network	EMCO	3816_2	SHEM019-1	2023/12/19	2024/12/18
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2023/12/19	2024/12/18
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2023/12/19	2024/12/18
CE test Cable	/	/	SHEM172-1	2023/12/19	2024/12/18
Test Software	ESE	e3	Version: 6.191211	N/A	N/A

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is PIFA antenna and no consideration of replacement. The best case gain of the antenna is 0.73 dBi

Antenna location: Refer to internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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

7 Radio Spectrum Matter Test Results

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

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

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C

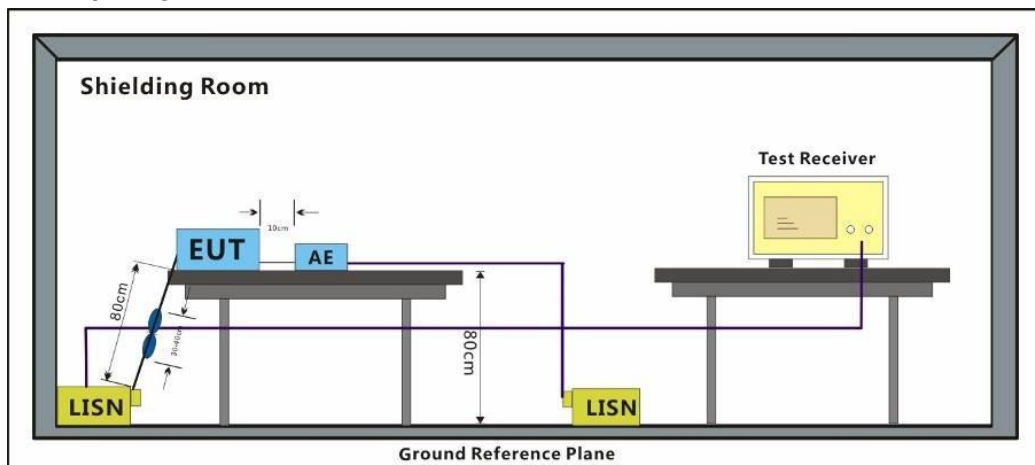
Humidity: 50 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram

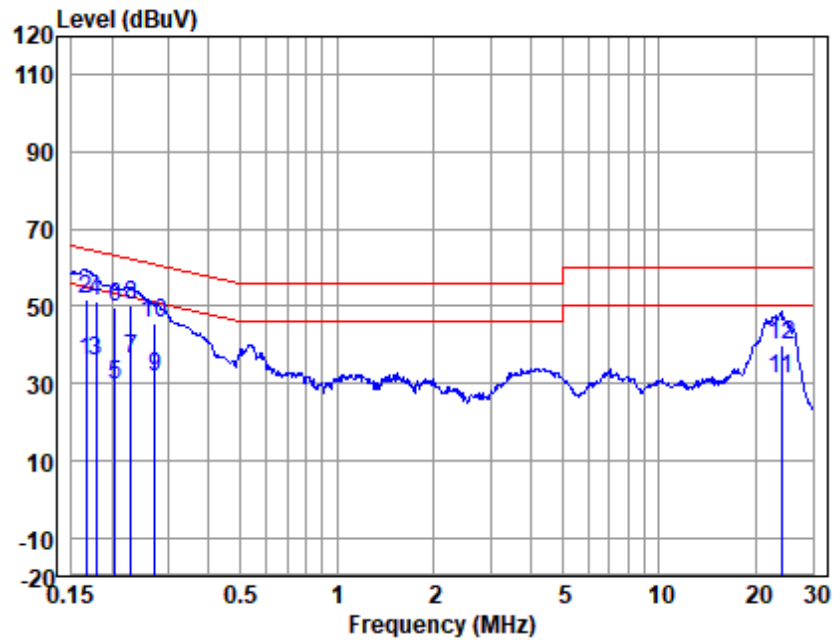


7.1.4 Measurement Procedure and Data

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

Test Mode: 05; Line: Live line

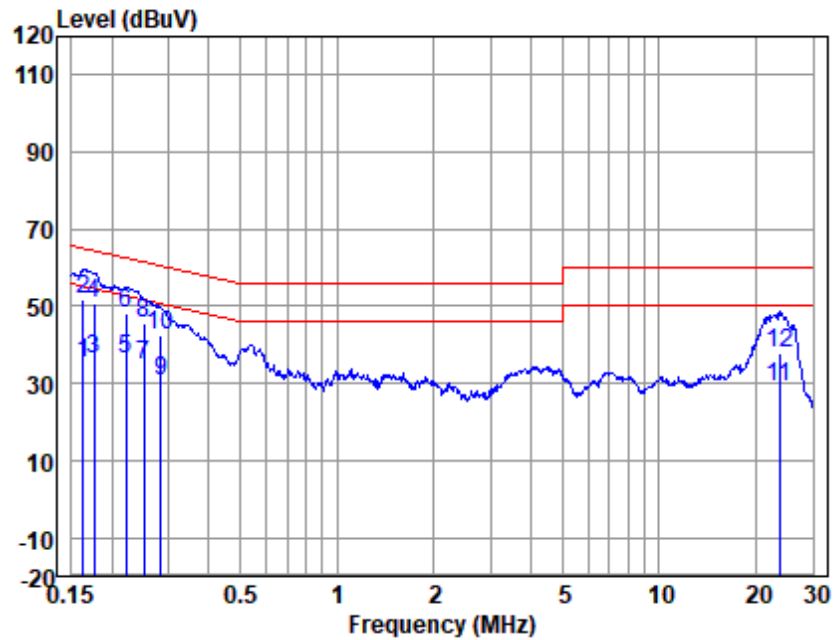


LISN : LINE
EUT/Project No : 1328AT
Test Mode : 05

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.17	25.61	0.50	9.90	36.01	55.16	-19.15	Average
2	0.17	41.25	0.50	9.90	51.65	65.16	-13.51	QP
3	0.18	25.54	0.50	9.90	35.94	54.55	-18.61	Average
4	0.18	40.65	0.50	9.90	51.05	64.55	-13.50	QP
5	0.20	19.41	0.49	9.90	29.80	53.45	-23.65	Average
6	0.20	39.21	0.49	9.90	49.60	63.45	-13.85	QP
7	0.23	26.20	0.45	9.90	36.55	52.48	-15.93	Average
8	0.23	39.99	0.45	9.90	50.34	62.48	-12.14	QP
9	0.27	21.22	0.40	9.90	31.52	51.07	-19.55	Average
10	0.27	35.28	0.40	9.90	45.58	61.07	-15.49	QP
11	23.89	19.86	0.68	10.70	31.24	50.00	-18.76	Average
12	23.89	28.65	0.68	10.70	40.03	60.00	-19.97	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

Test Mode: 05; Line: Neutral Line



LISN : NEUTRAL
EUT/Project No : 1328AT
Test Mode : 05

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	25.30	0.33	9.90	35.53	55.30	-19.77	Average
2	0.16	41.71	0.33	9.90	51.94	65.30	-13.36	QP
3	0.18	26.04	0.32	9.90	36.26	54.68	-18.42	Average
4	0.18	40.69	0.32	9.90	50.91	64.68	-13.77	QP
5	0.22	26.09	0.30	9.90	36.29	52.74	-16.45	Average
6	0.22	38.19	0.30	9.90	48.39	62.74	-14.35	QP
7	0.25	24.59	0.30	9.90	34.79	51.69	-16.90	Average
8	0.25	35.35	0.30	9.90	45.55	61.69	-16.14	QP
9	0.28	20.57	0.30	9.90	30.77	50.68	-19.91	Average
10	0.28	32.26	0.30	9.90	42.46	60.68	-18.22	QP
11	23.64	17.41	1.20	10.70	29.31	50.00	-20.69	Average
12	23.64	26.04	1.20	10.70	37.94	60.00	-22.06	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

7.2 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

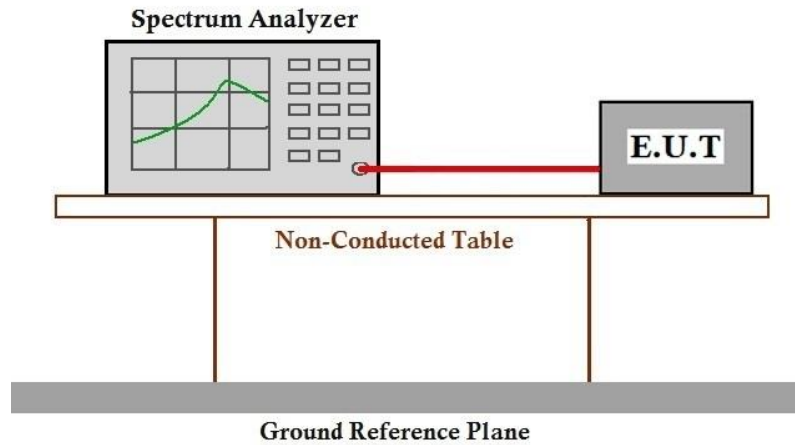
Humidity: 54.8 % RH

Atmospheric Pressure: 1010 mbar

7.2.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

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

Please Refer to Appendix for Details

7.3 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Limit:

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

7.3.1 E.U.T. Operation

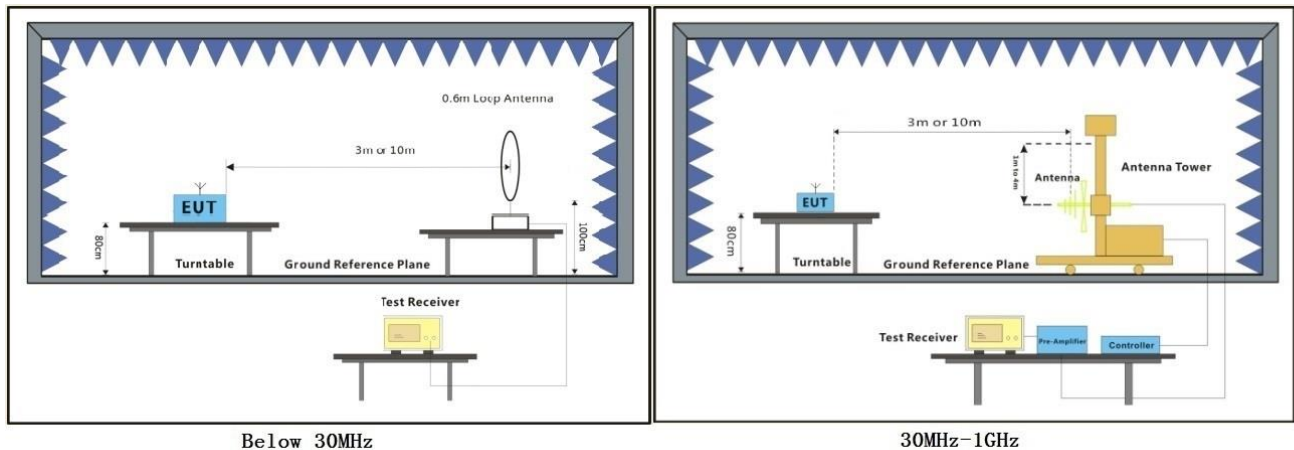
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



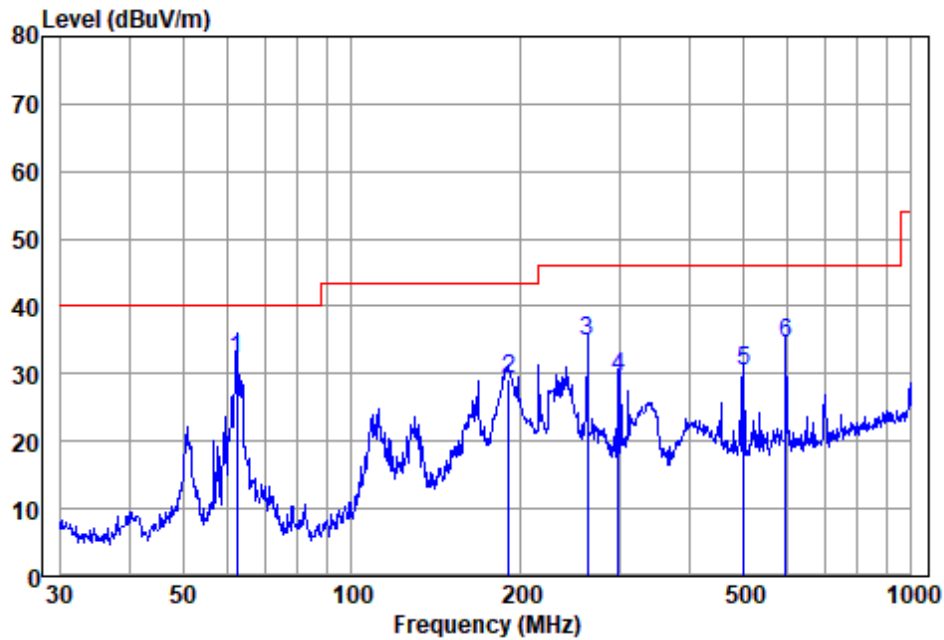
7.3.4 Measurement Procedure and Data

- 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.
- 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.
- 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 quasi-peak 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
- 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.
- 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.
- 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: 05; Polarity: Horizontal



Antenna Polarity :HORIZONTAL

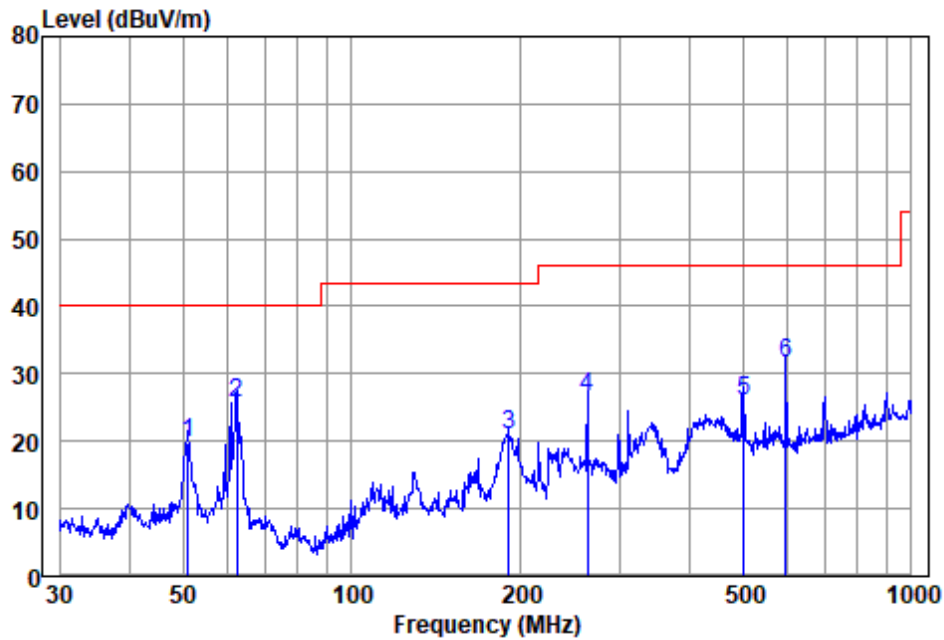
EUT/Project :1328AT

Test mode :05

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	62.213	50.91	12.76	1.57	33.20	32.04	40.00	-7.96	QP
2	190.405	48.85	10.56	2.89	33.00	29.30	43.50	-14.20	QP
3	263.819	52.21	12.11	3.45	32.80	34.97	46.00	-11.03	QP
4	299.316	45.15	13.37	3.89	32.80	29.61	46.00	-16.39	QP
5	501.179	40.04	18.02	4.93	32.70	30.29	46.00	-15.71	QP
6	595.133	41.85	19.85	5.44	32.70	34.44	46.00	-11.56	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical



Antenna Polarity :VERTICAL

EUT/Project :1328AT

Test mode :05

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	50.942	37.54	13.90	1.45	33.20	19.69	40.00	-20.31	QP
2	62.213	44.44	12.76	1.57	33.20	25.57	40.00	-14.43	QP
3	190.405	40.37	10.56	2.89	33.00	20.82	43.50	-22.68	QP
4	263.819	43.69	12.11	3.45	32.80	26.45	46.00	-19.55	QP
5	501.179	35.72	18.02	4.93	32.70	25.97	46.00	-20.03	QP
6	595.133	39.13	19.85	5.44	32.70	31.72	46.00	-14.28	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

7.4 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C

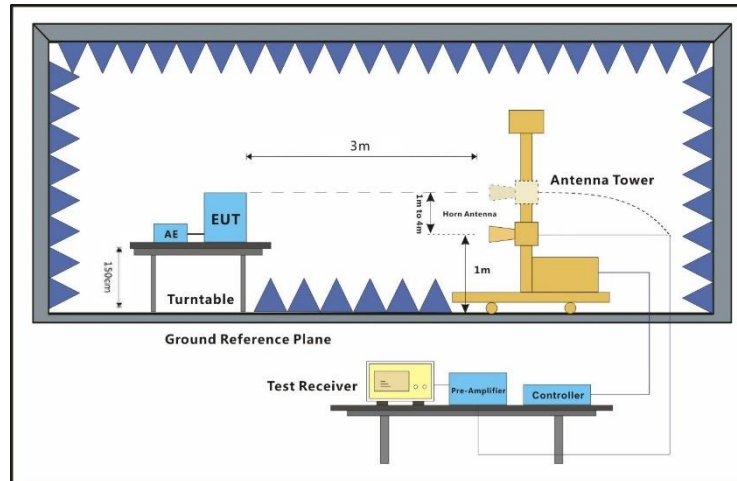
Humidity: 57.4 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



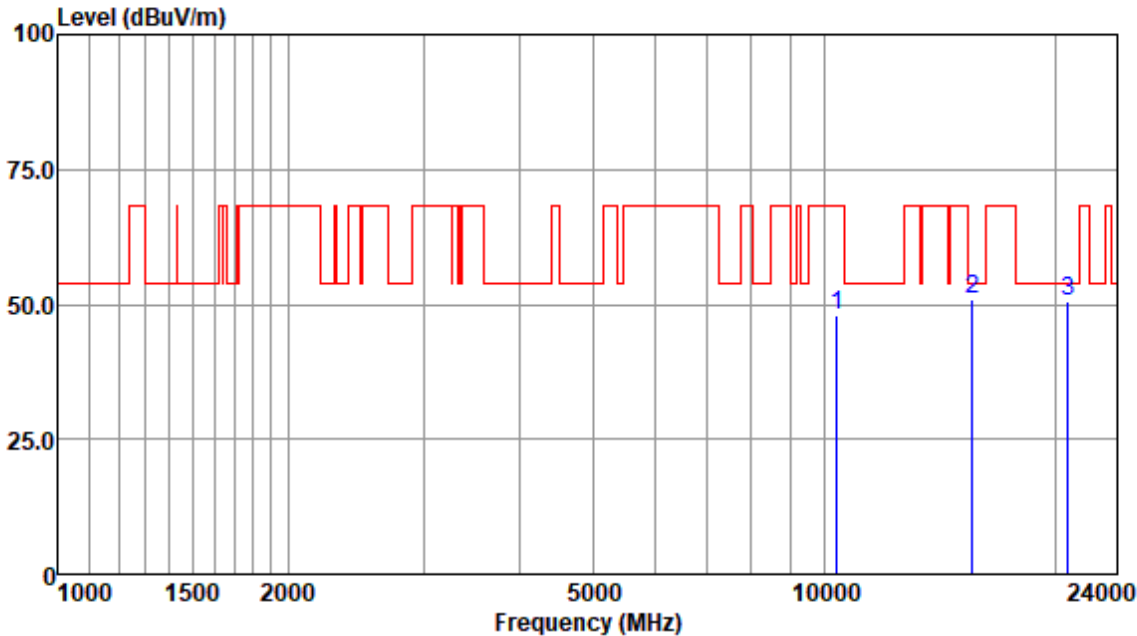
7.4.4 Measurement Procedure and Data

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

Remark:

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

Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

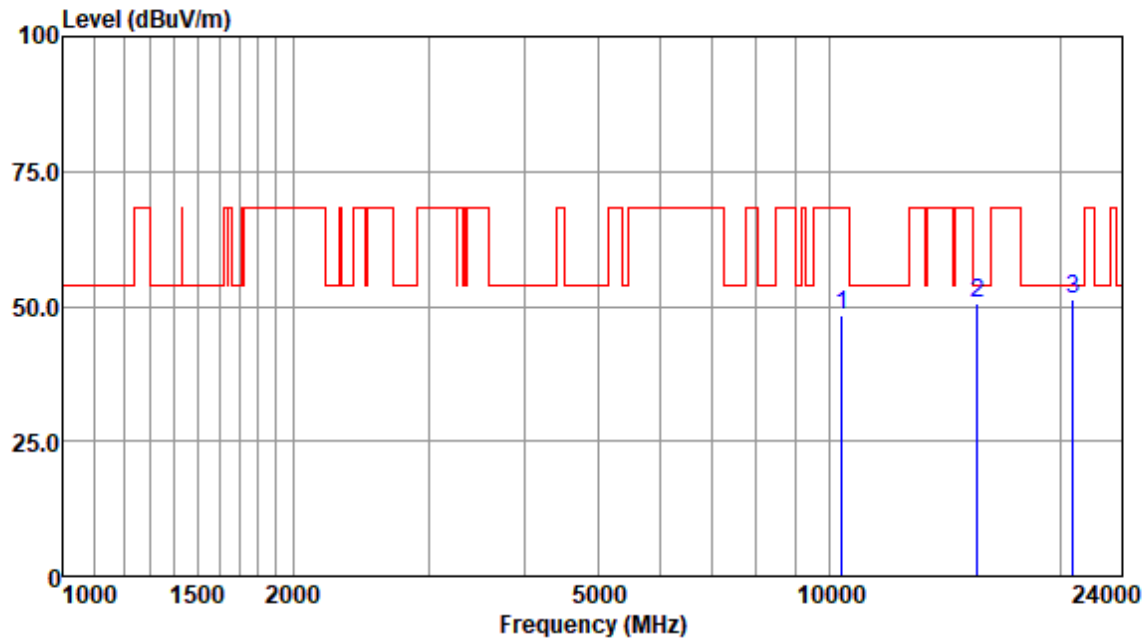


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10360.35	34.83	37.85	9.02	33.56	48.14	68.20	-20.06	Peak
15540.24	31.70	43.36	12.59	36.82	50.83	54.00	-3.17	Peak
20720.83	31.07	43.94	14.46	38.82	50.65	54.00	-3.35	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



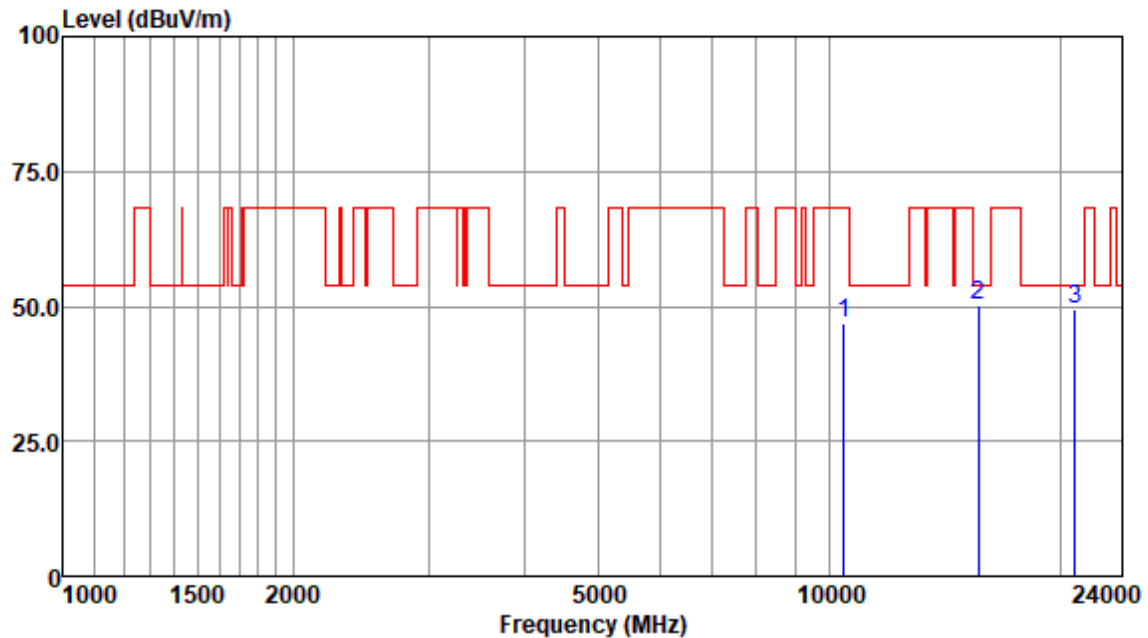
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10360.35	34.85	37.85	9.02	33.56	48.16	68.20	-20.04	Peak
15540.24	31.25	43.36	12.59	36.82	50.38	54.00	-3.62	Peak
20720.83	31.65	43.94	14.46	38.82	51.23	54.00	-2.77	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



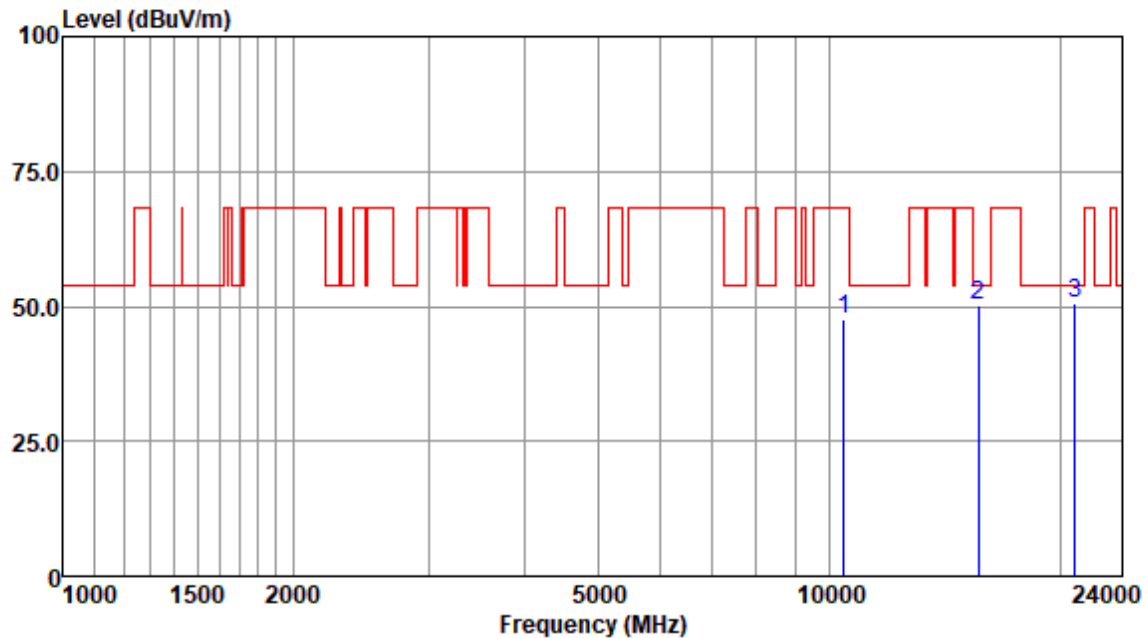
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10400.49	33.60	37.87	9.03	33.58	46.92	68.20	-21.28	Peak
15600.67	31.00	43.25	12.64	36.81	50.08	54.00	-3.92	Peak
20800.84	29.97	43.96	14.48	38.92	49.49	54.00	-4.51	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



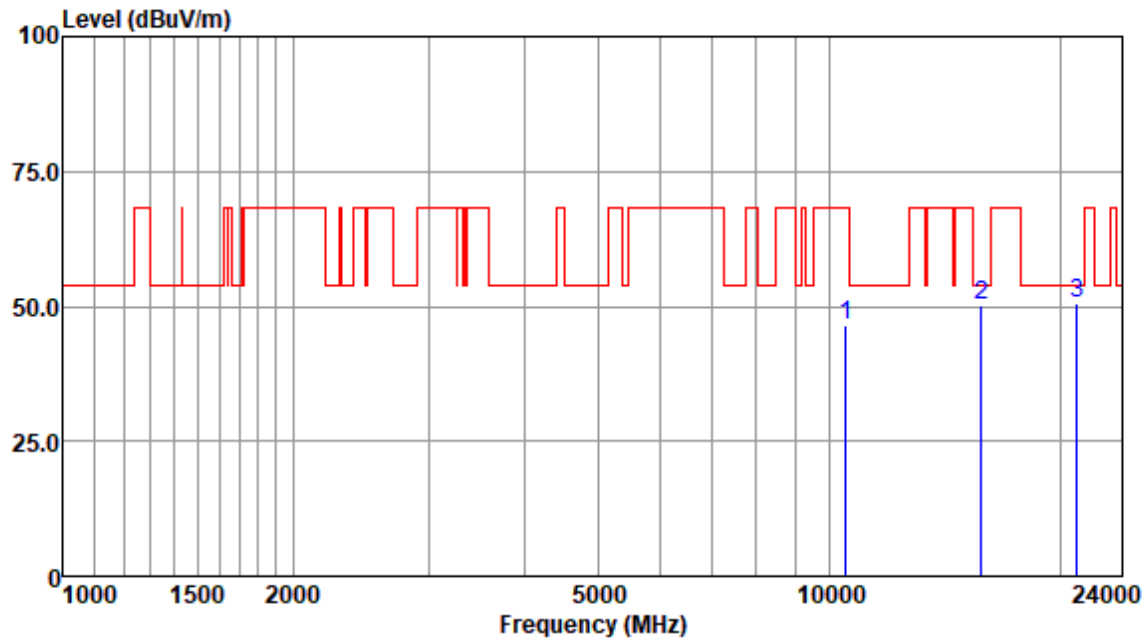
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10400.37	34.43	37.87	9.03	33.58	47.75	68.20	-20.45	Peak
15600.67	30.98	43.25	12.64	36.81	50.06	54.00	-3.94	Peak
20800.84	30.89	43.96	14.48	38.92	50.41	54.00	-3.59	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



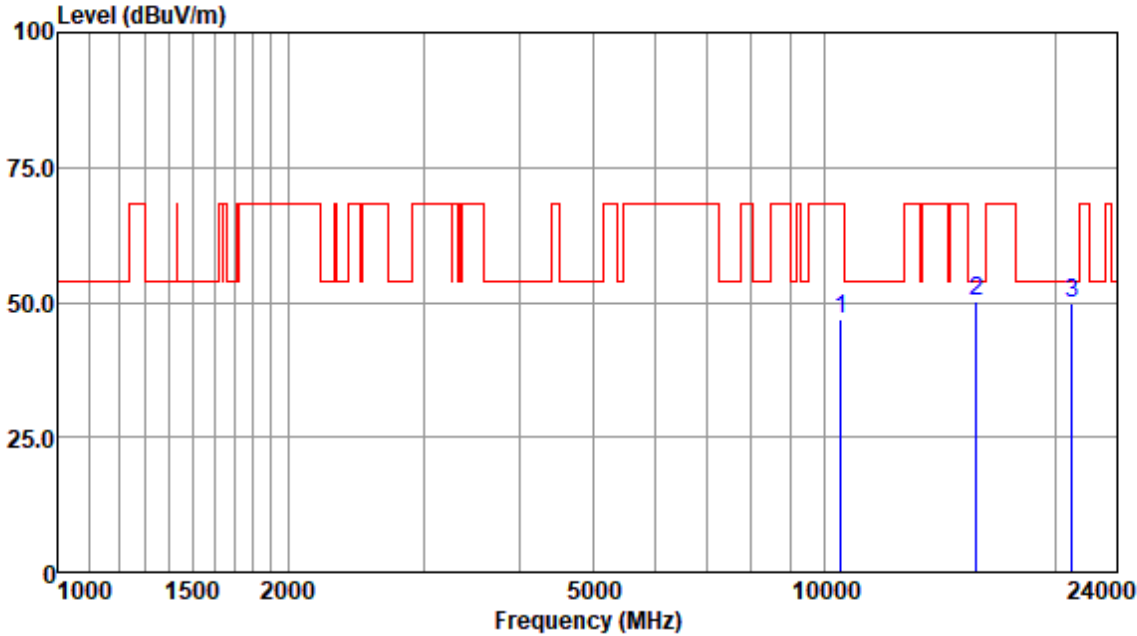
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10480.71	33.02	37.90	9.04	33.62	46.34	68.20	-21.86	Peak
15720.90	31.37	42.93	12.54	36.81	50.03	54.00	-3.97	Peak
20960.48	31.14	44.00	14.53	39.12	50.55	54.00	-3.45	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

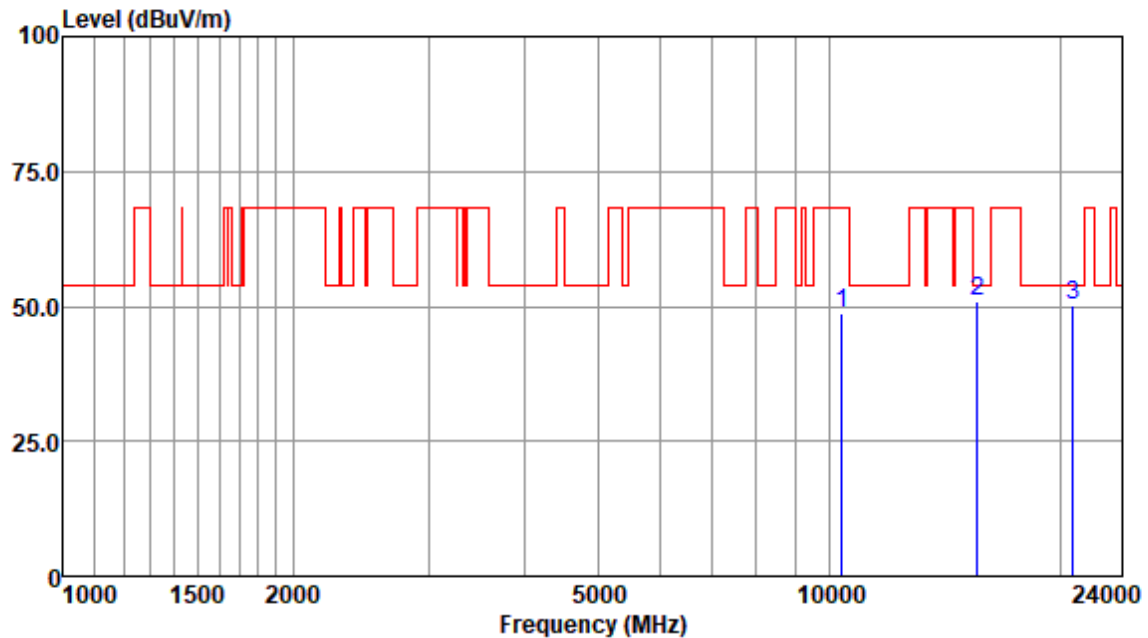


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10480.71	33.37	37.90	9.04	33.62	46.69	68.20	-21.51	Peak
15720.90	31.45	42.93	12.54	36.81	50.11	54.00	-3.89	Peak
20960.48	30.44	44.00	14.53	39.12	49.85	54.00	-4.15	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



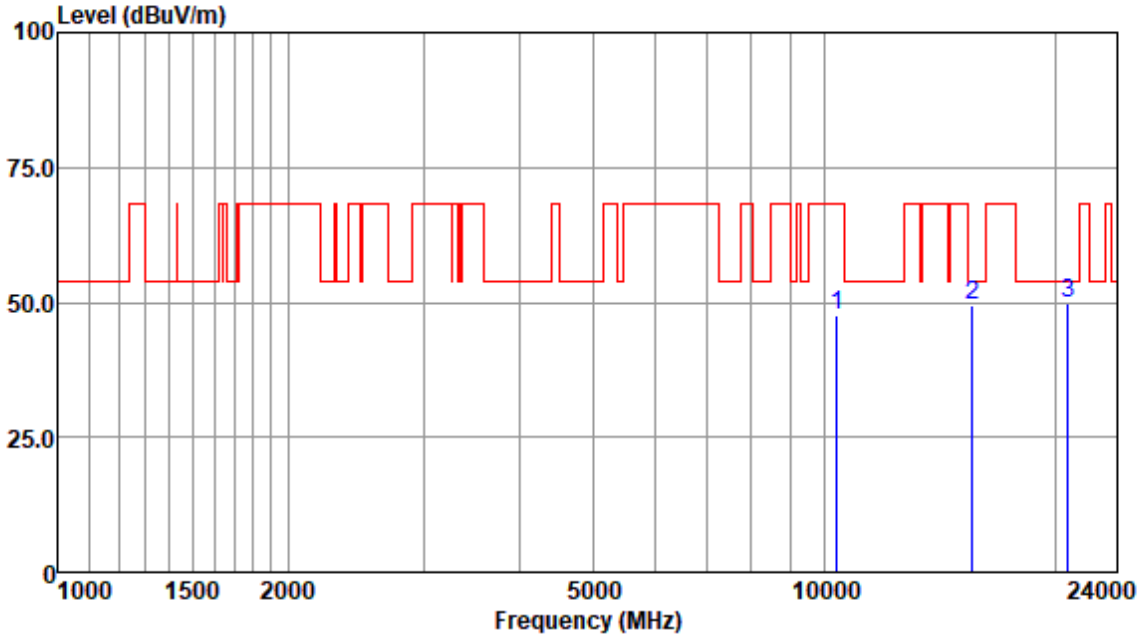
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.35	35.45	37.85	9.02	33.56	48.76	68.20	-19.44	Peak
15540.24	31.65	43.36	12.59	36.82	50.78	54.00	-3.22	Peak
20720.83	30.53	43.94	14.46	38.82	50.11	54.00	-3.89	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

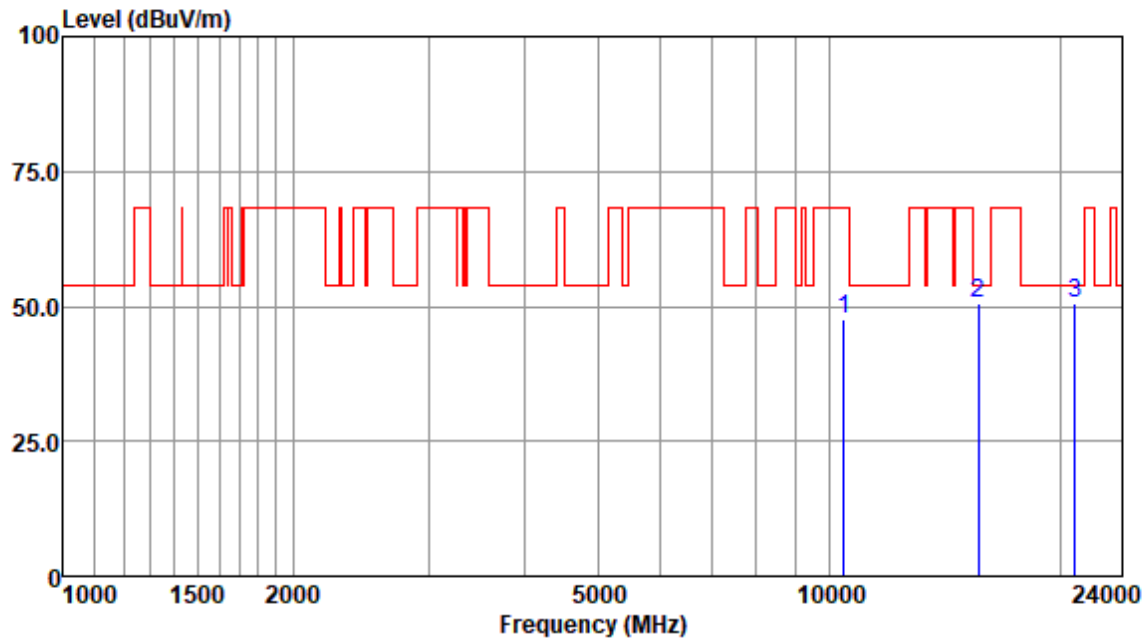


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10360.35	34.47	37.85	9.02	33.56	47.78	68.20	-20.42	Peak
15540.24	30.23	43.36	12.59	36.82	49.36	54.00	-4.64	Peak
20720.83	30.21	43.94	14.46	38.82	49.79	54.00	-4.21	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



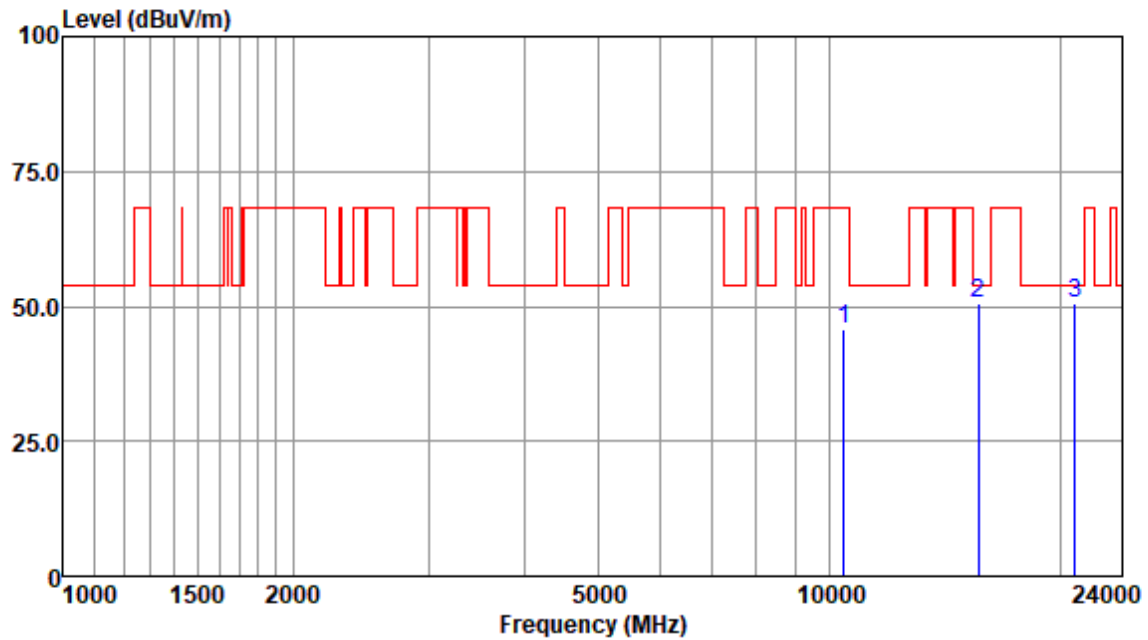
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10400.37	34.44	37.87	9.03	33.58	47.76	68.20	-20.44	Peak
15600.67	31.65	43.25	12.64	36.81	50.73	54.00	-3.27	Peak
20800.84	31.02	43.96	14.48	38.92	50.54	54.00	-3.46	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



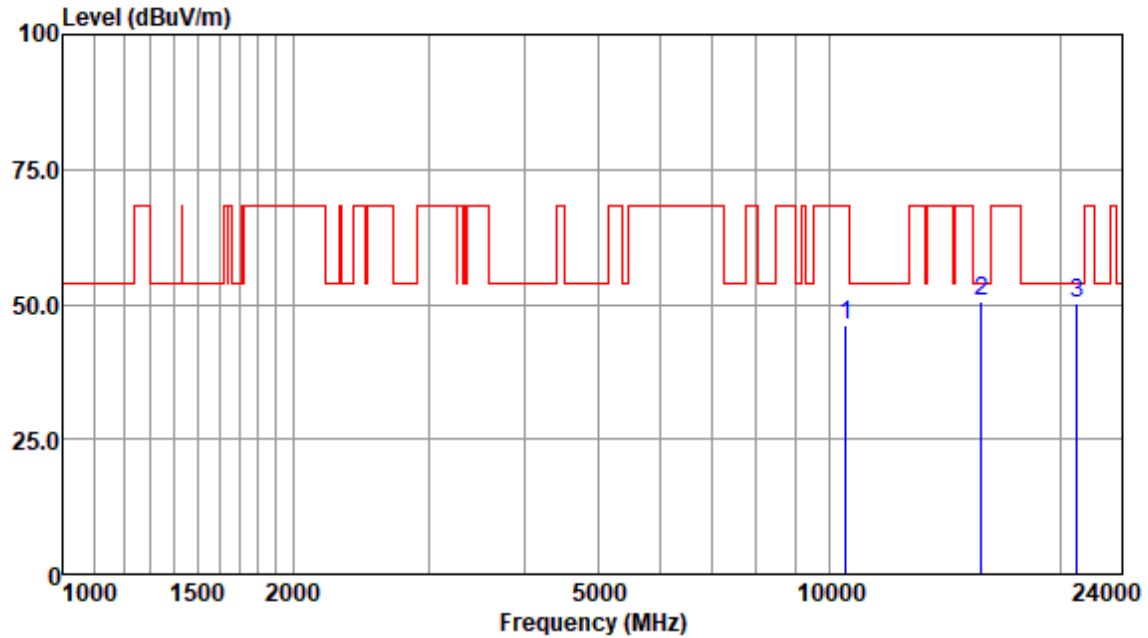
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10400.37	32.57	37.87	9.03	33.58	45.89	68.20	-22.31	Peak
15600.67	31.38	43.25	12.64	36.81	50.46	54.00	-3.54	Peak
20800.84	31.00	43.96	14.48	38.92	50.52	54.00	-3.48	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



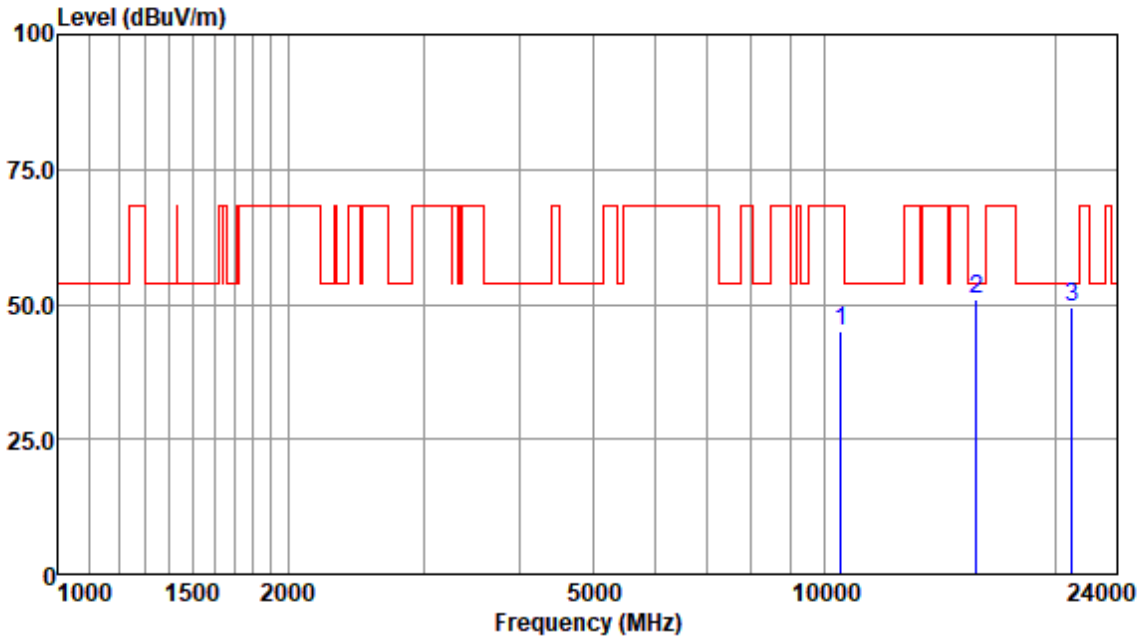
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10480.71	32.90	37.90	9.04	33.62	46.22	68.20	-21.98	Peak
15720.90	32.05	42.93	12.54	36.81	50.71	54.00	-3.29	Peak
20960.48	30.93	44.00	14.53	39.12	50.34	54.00	-3.66	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

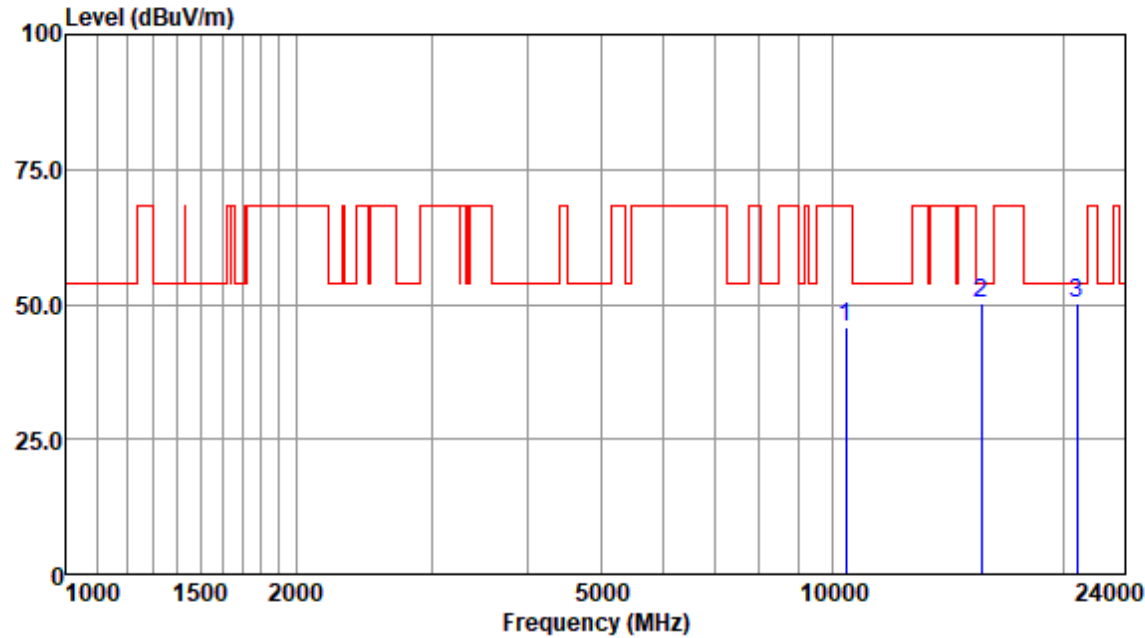


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10480.71	31.55	37.90	9.04	33.62	44.87	68.20	-23.33	Peak
15720.90	32.13	42.93	12.54	36.81	50.79	54.00	-3.21	Peak
20960.48	30.19	44.00	14.53	39.12	49.60	54.00	-4.40	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

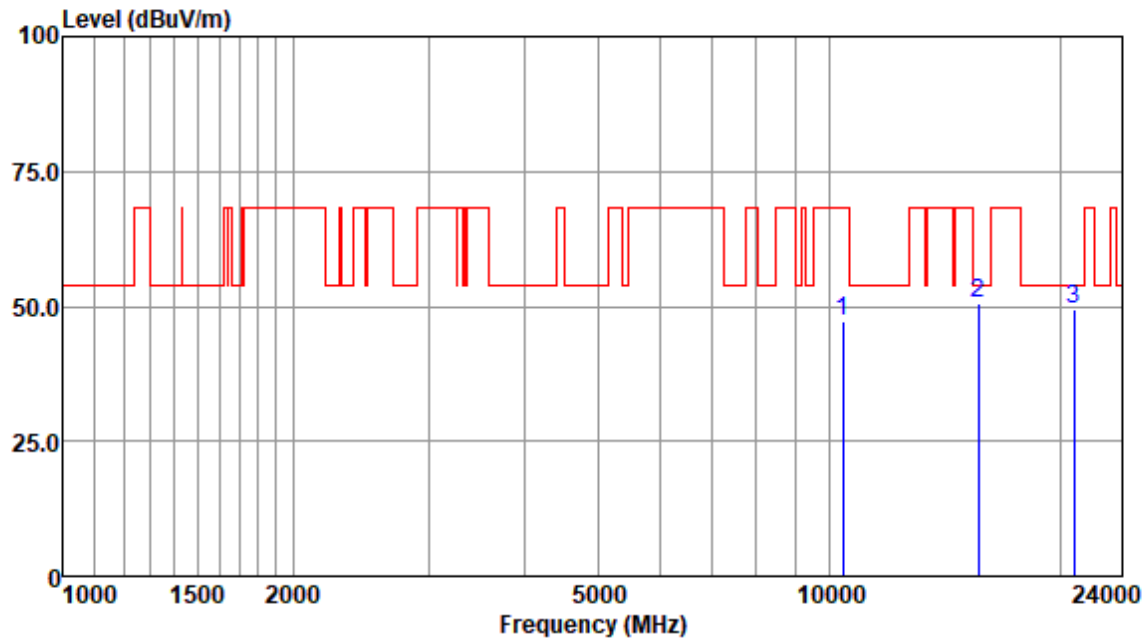


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10380.35	32.54	37.85	9.02	33.56	45.85	68.20	-22.35	Peak
15570.67	31.10	43.25	12.64	36.81	50.18	54.00	-3.82	Peak
20760.83	30.60	43.94	14.46	38.82	50.18	54.00	-3.82	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



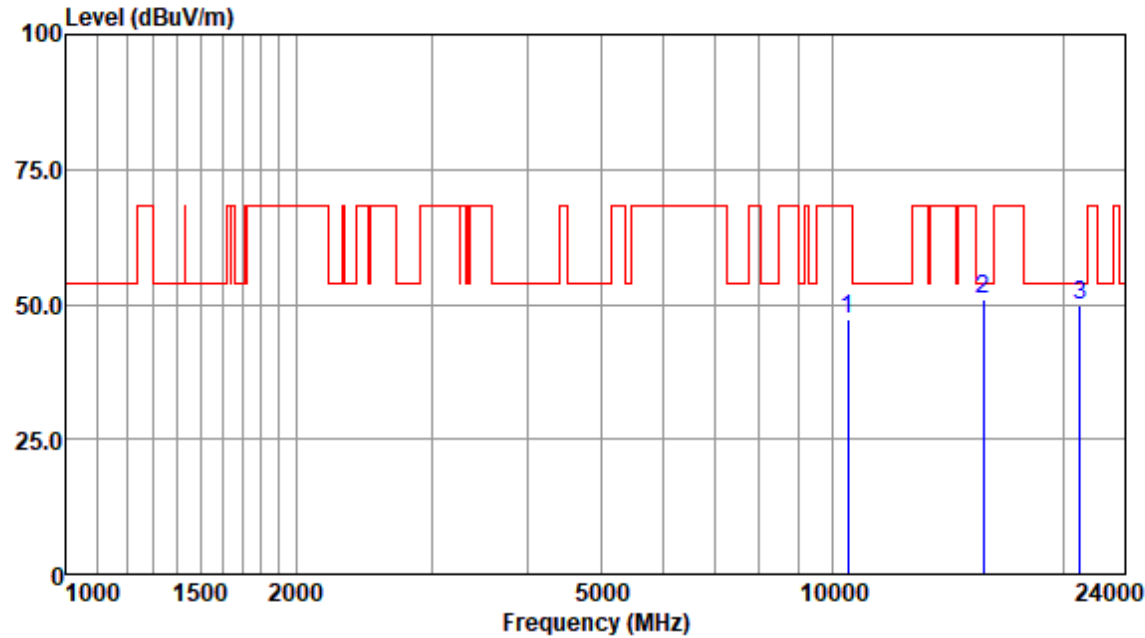
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10380.35	33.86	37.85	9.02	33.56	47.17	68.20	-21.03	Peak
15570.67	31.55	43.25	12.64	36.81	50.63	54.00	-3.37	Peak
20760.83	29.71	43.94	14.46	38.82	49.29	54.00	-4.71	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

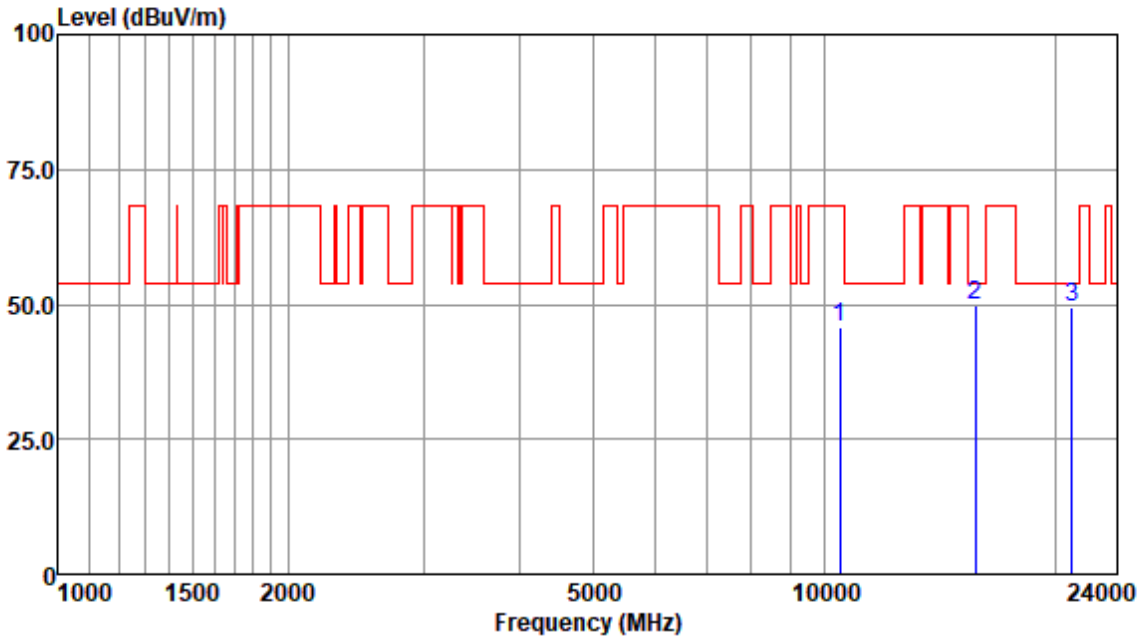


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10460.71	33.80	37.90	9.04	33.62	47.12	68.20	-21.08	Peak
15690.00	32.11	43.04	12.63	36.81	50.97	54.00	-3.03	Peak
20920.48	30.44	44.00	14.53	39.12	49.85	54.00	-4.15	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

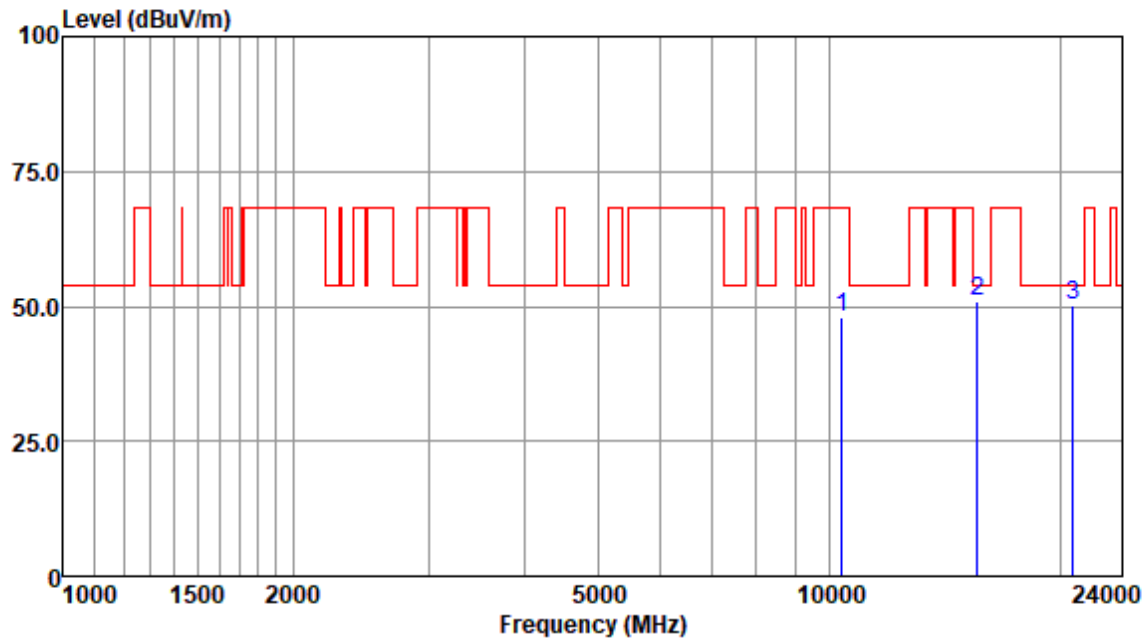


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10460.71	32.31	37.90	9.04	33.62	45.63	68.20	-22.57	Peak
15690.00	31.05	43.04	12.63	36.81	49.91	54.00	-4.09	Peak
20920.48	29.95	44.00	14.53	39.12	49.36	54.00	-4.64	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



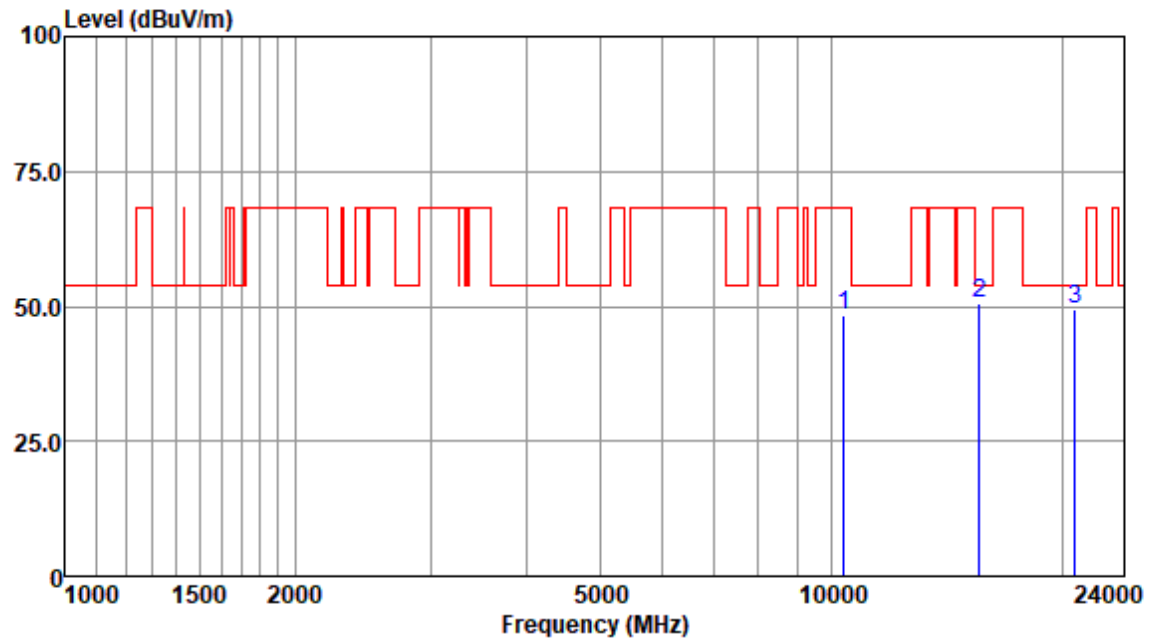
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10360.35	34.63	37.85	9.02	33.56	47.94	68.20	-20.26	Peak
15540.24	31.87	43.36	12.59	36.82	51.00	54.00	-3.00	Peak
20720.83	30.45	43.94	14.46	38.82	50.03	54.00	-3.97	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



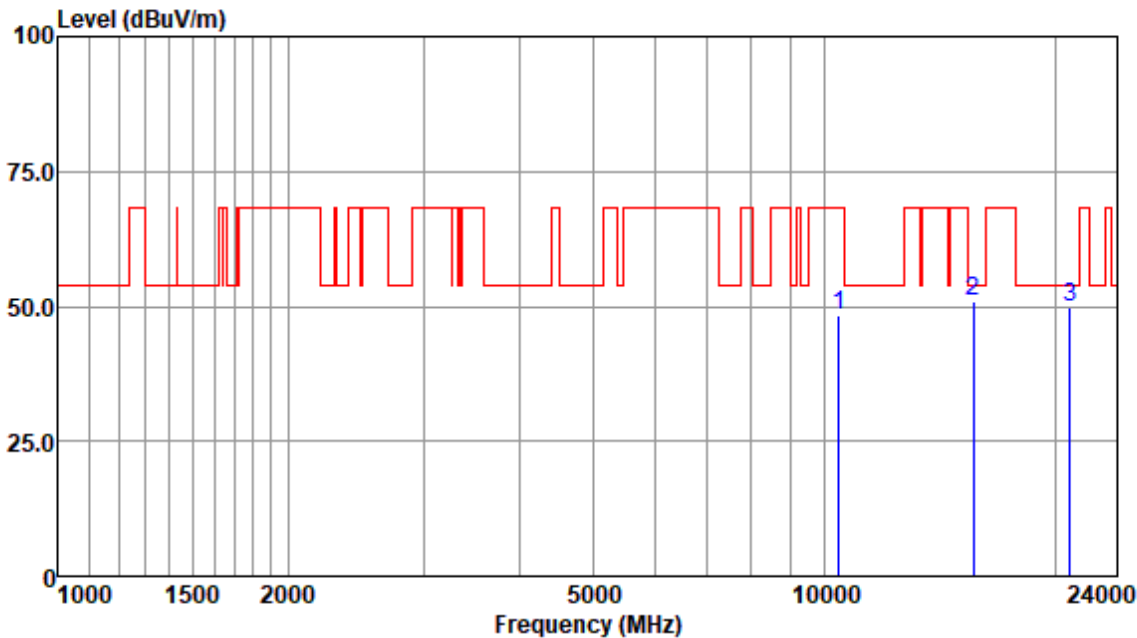
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.35	34.87	37.85	9.02	33.56	48.18	68.20	-20.02	Peak
15540.24	31.43	43.36	12.59	36.82	50.56	54.00	-3.44	Peak
20720.83	29.97	43.94	14.46	38.82	49.55	54.00	-4.45	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

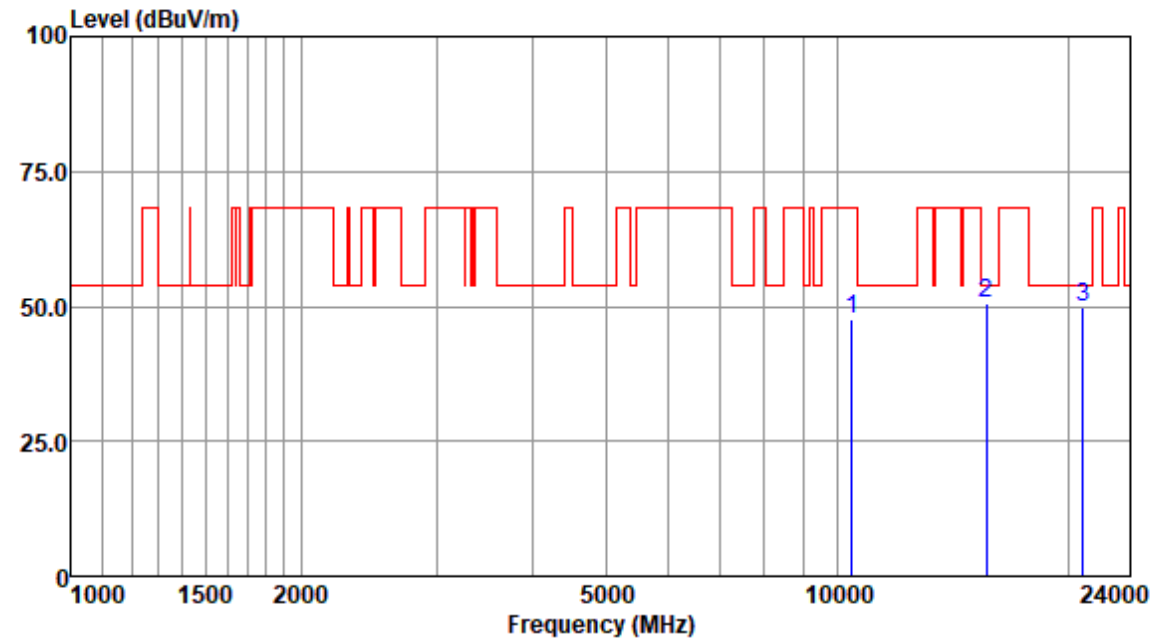


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10400.37	35.15	37.87	9.03	33.58	48.47	68.20	-19.73	Peak
15600.67	31.69	43.25	12.64	36.81	50.77	54.00	-3.23	Peak
20800.84	30.38	43.96	14.48	38.92	49.90	54.00	-4.10	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

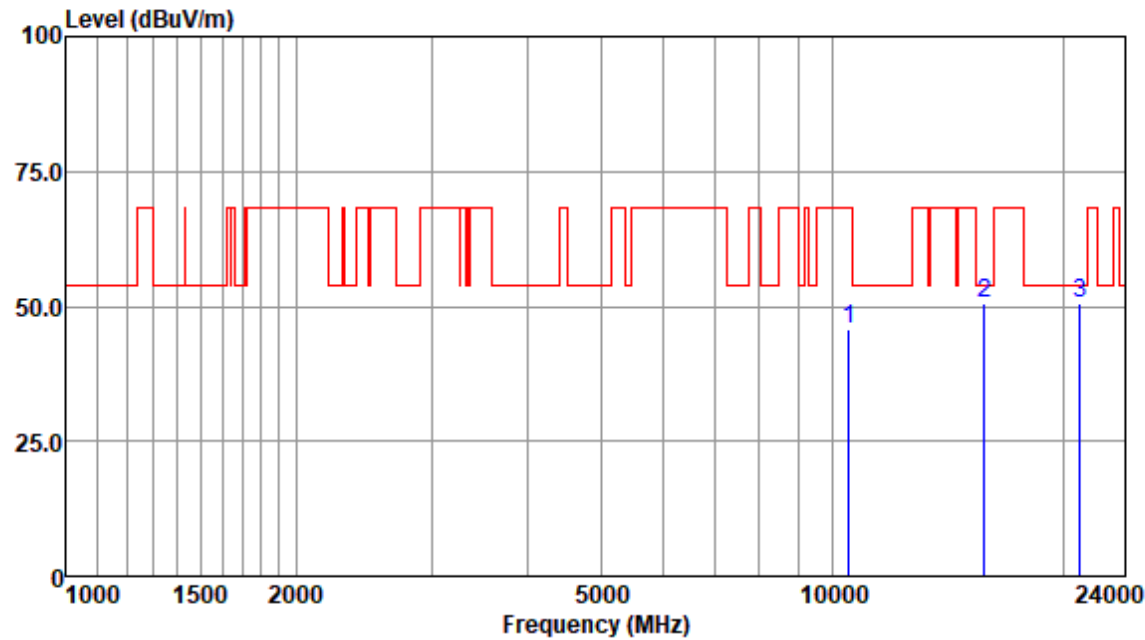


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10400.37	34.36	37.87	9.03	33.58	47.68	68.20	-20.52	Peak
15600.67	31.63	43.25	12.64	36.81	50.71	54.00	-3.29	Peak
20800.84	30.14	43.96	14.48	38.92	49.66	54.00	-4.34	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

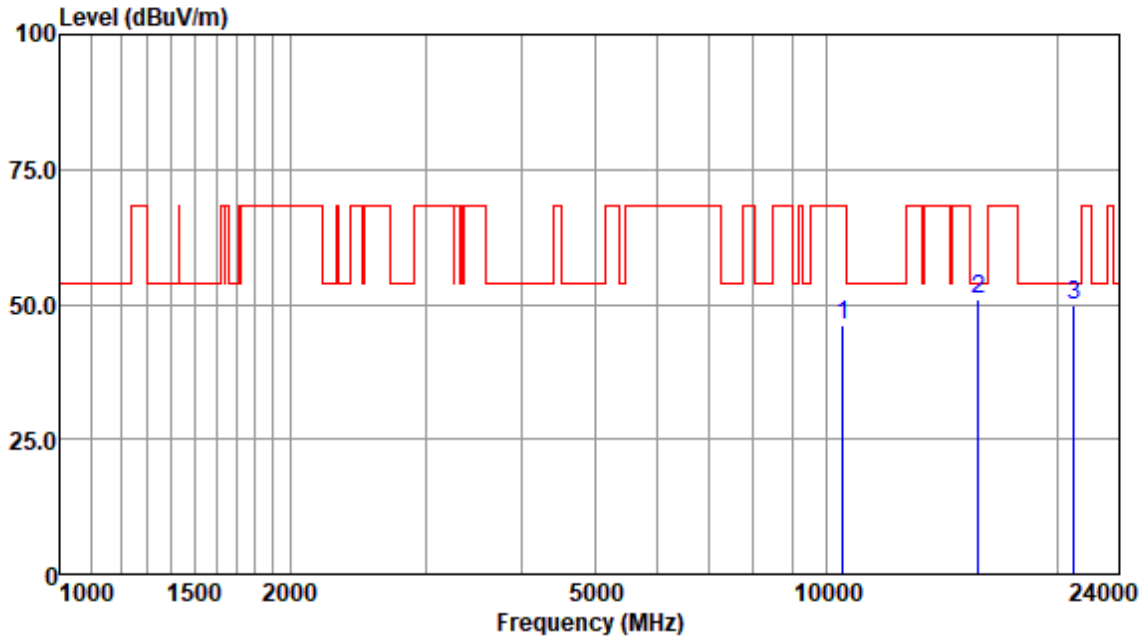


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10480.71	32.40	37.90	9.04	33.62	45.72	68.20	-22.48	Peak
15720.90	31.92	42.93	12.54	36.81	50.58	54.00	-3.42	Peak
20960.48	31.24	44.00	14.53	39.12	50.65	54.00	-3.35	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

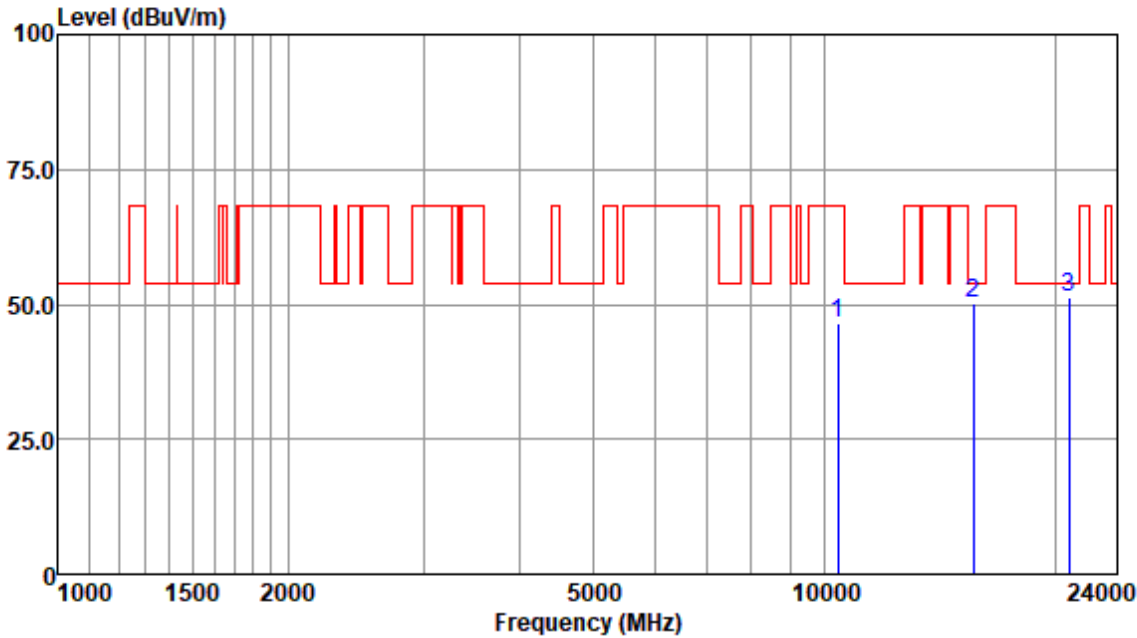


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10480.71	32.72	37.90	9.04	33.62	46.04	68.20	-22.16	Peak
15720.90	32.25	42.93	12.54	36.81	50.91	54.00	-3.09	Peak
20960.48	30.51	44.00	14.53	39.12	49.92	54.00	-4.08	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

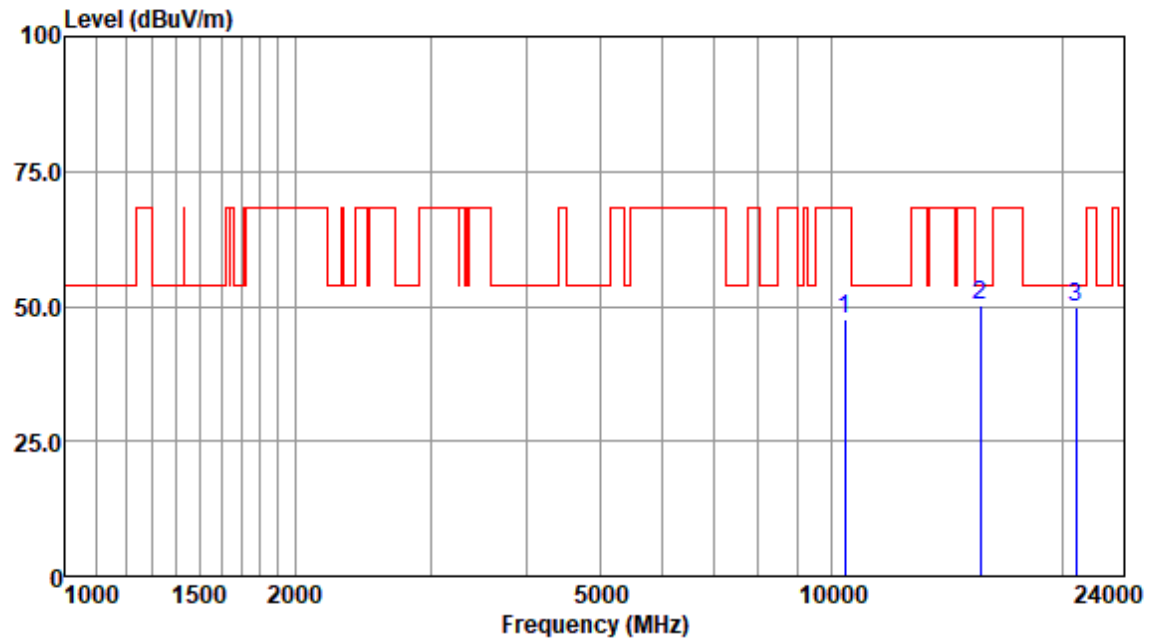


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10380.35	33.29	37.85	9.02	33.56	46.60	68.20	-21.60	Peak
15570.67	31.20	43.25	12.64	36.81	50.28	54.00	-3.72	Peak
20760.83	31.63	43.94	14.46	38.82	51.21	54.00	-2.79	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



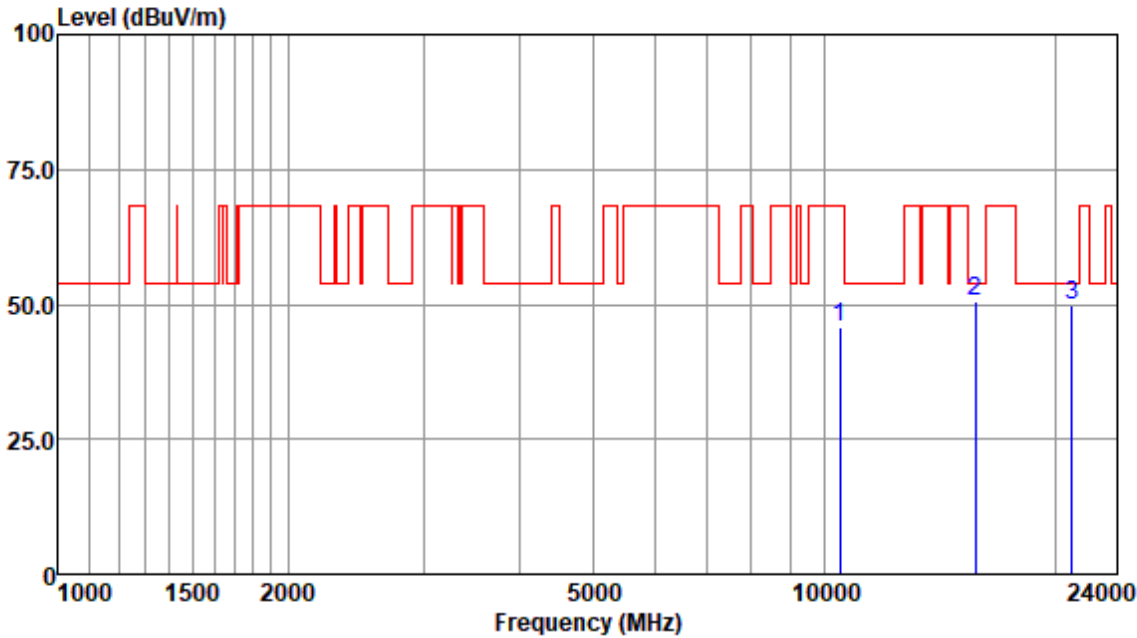
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10380.35	34.20	37.85	9.02	33.56	47.51	68.20	-20.69	Peak
15570.67	31.00	43.25	12.64	36.81	50.08	54.00	-3.92	Peak
20760.83	30.33	43.94	14.46	38.82	49.91	54.00	-4.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

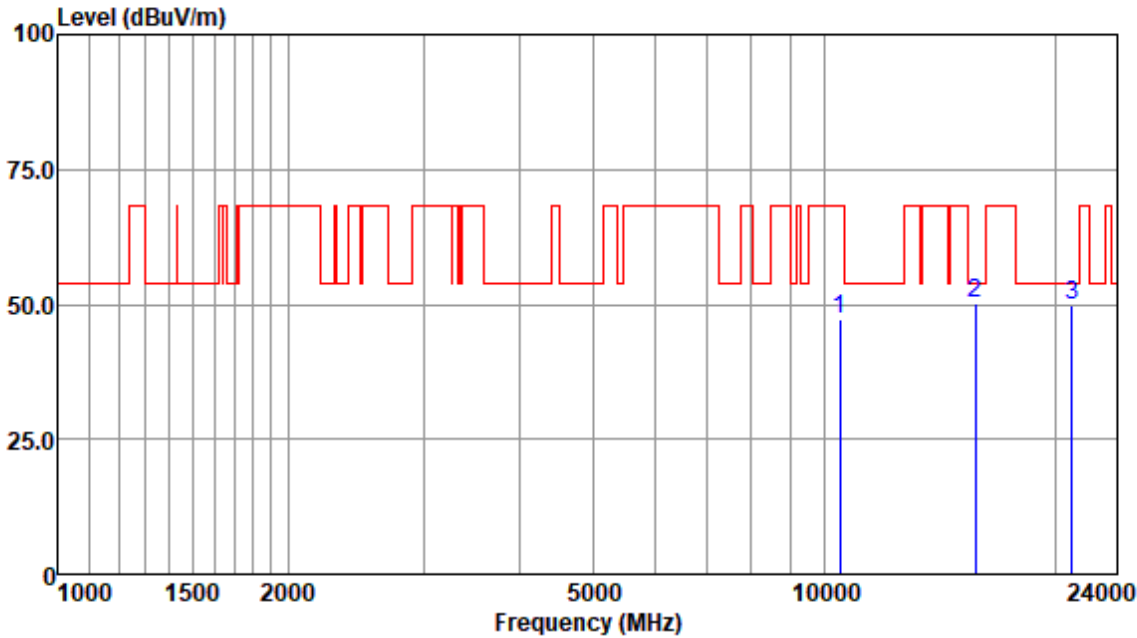


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10460.71	32.57	37.90	9.04	33.62	45.89	68.20	-22.31	Peak
15690.00	31.84	43.04	12.63	36.81	50.70	54.00	-3.30	Peak
20920.48	30.36	44.00	14.53	39.12	49.77	54.00	-4.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

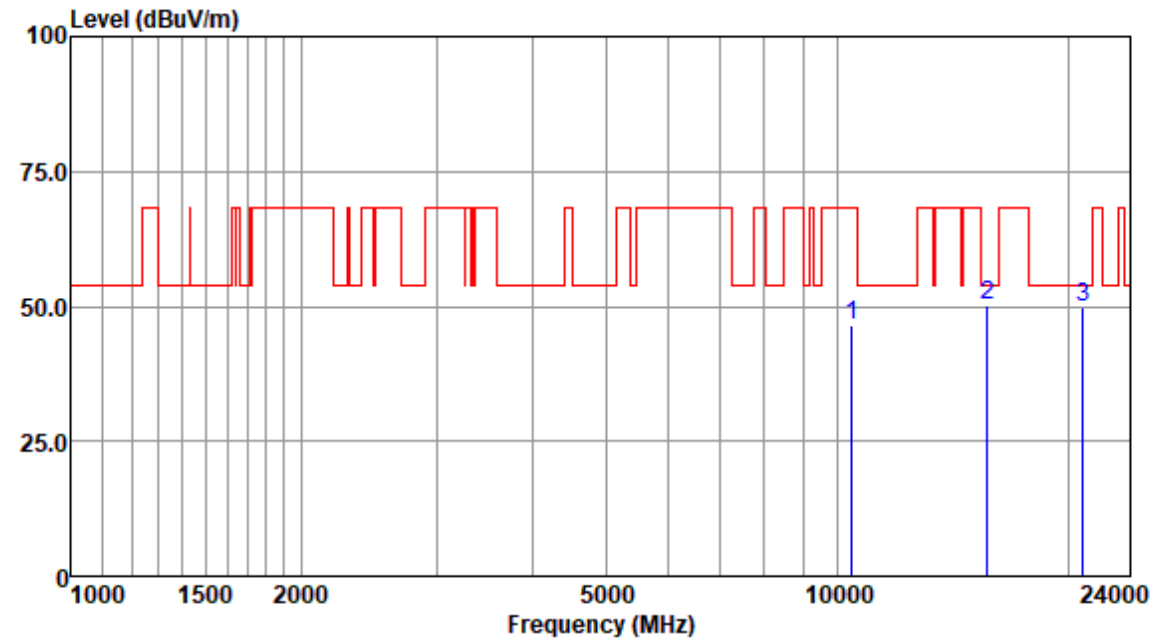


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10460.71	33.87	37.90	9.04	33.62	47.19	68.20	-21.01	Peak
15690.00	31.45	43.04	12.63	36.81	50.31	54.00	-3.69	Peak
20920.48	30.58	44.00	14.53	39.12	49.99	54.00	-4.01	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low

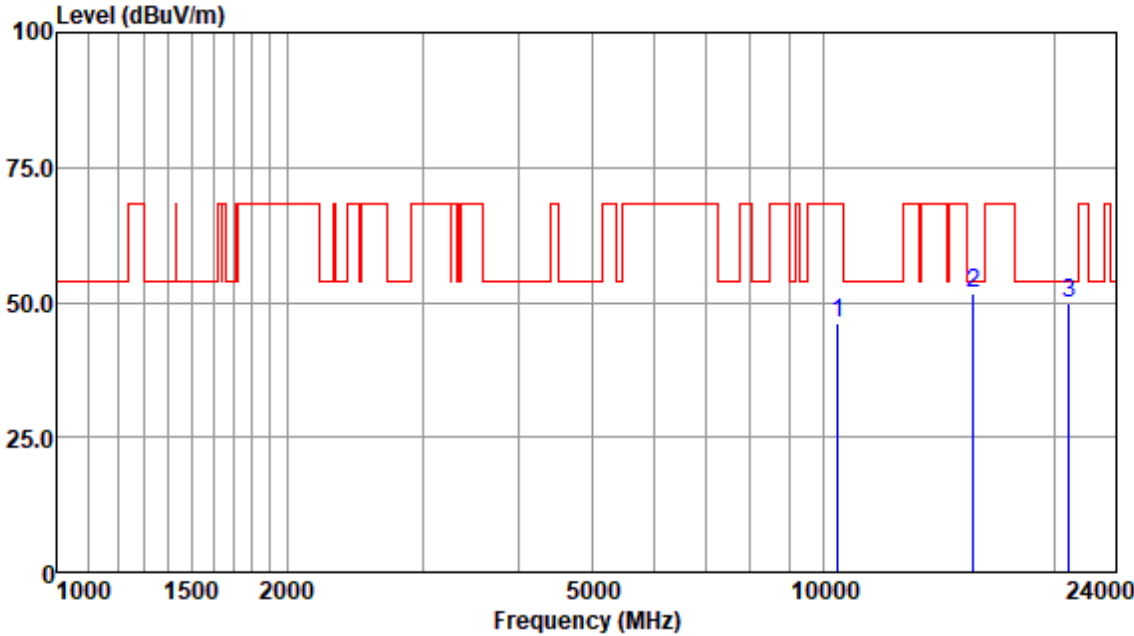


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10420.37	33.05	37.87	9.03	33.58	46.37	68.20	-21.83	Peak
15630.26	31.01	43.14	12.70	36.81	50.04	54.00	-3.96	Peak
20840.05	30.46	43.98	14.50	39.02	49.92	54.00	-4.08	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low

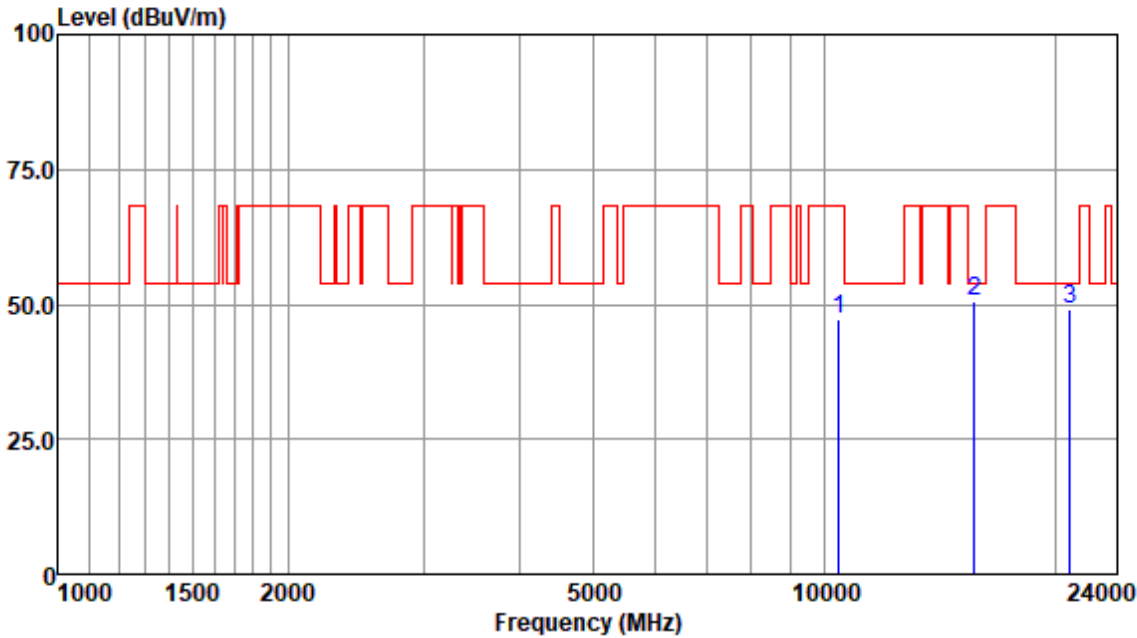


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10420.37	32.93	37.87	9.03	33.58	46.25	68.20	-21.95	Peak
15630.26	32.45	43.14	12.70	36.81	51.48	54.00	-2.52	Peak
20840.05	30.45	43.98	14.50	39.02	49.91	54.00	-4.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

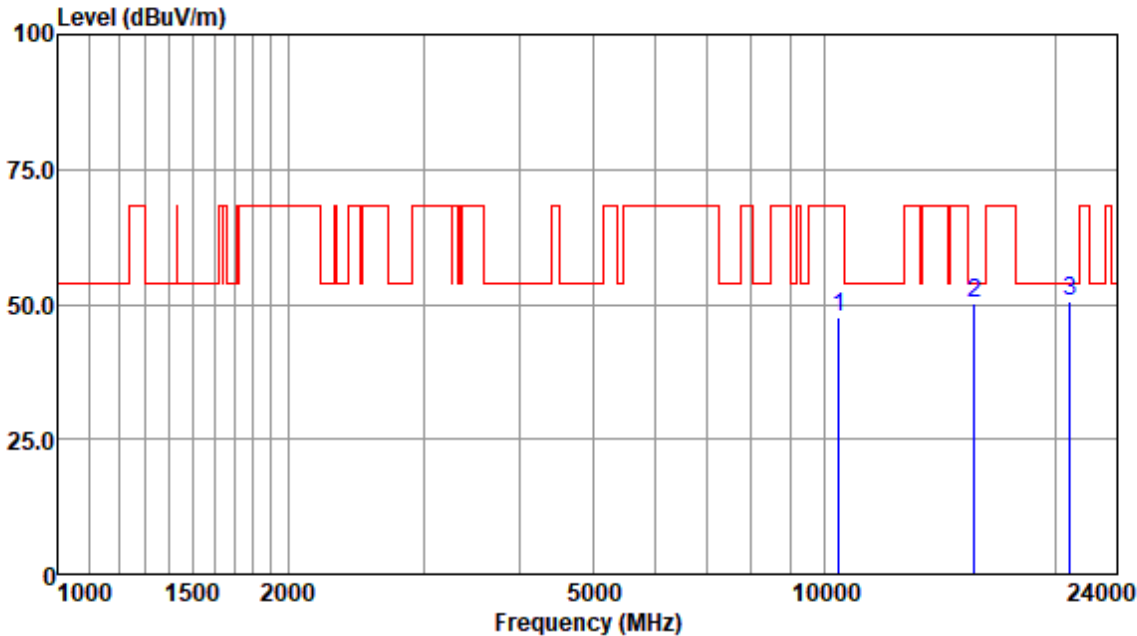


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10420.37	33.96	37.87	9.03	33.58	47.28	68.20	-20.92	Peak
15630.26	31.35	43.14	12.70	36.81	50.38	54.00	-3.62	Peak
20840.05	29.53	43.98	14.50	39.02	48.99	54.00	-5.01	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

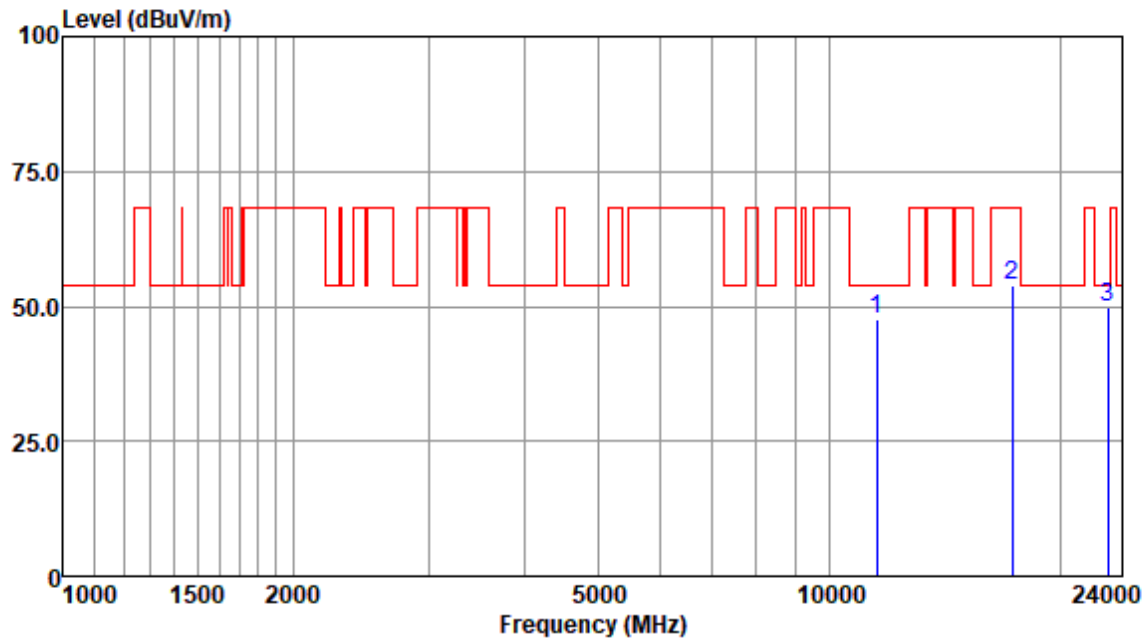


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10420.37	34.34	37.87	9.03	33.58	47.66	68.20	-20.54	Peak
15630.26	31.15	43.14	12.70	36.81	50.18	54.00	-3.82	Peak
20840.05	31.19	43.98	14.50	39.02	50.65	54.00	-3.35	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



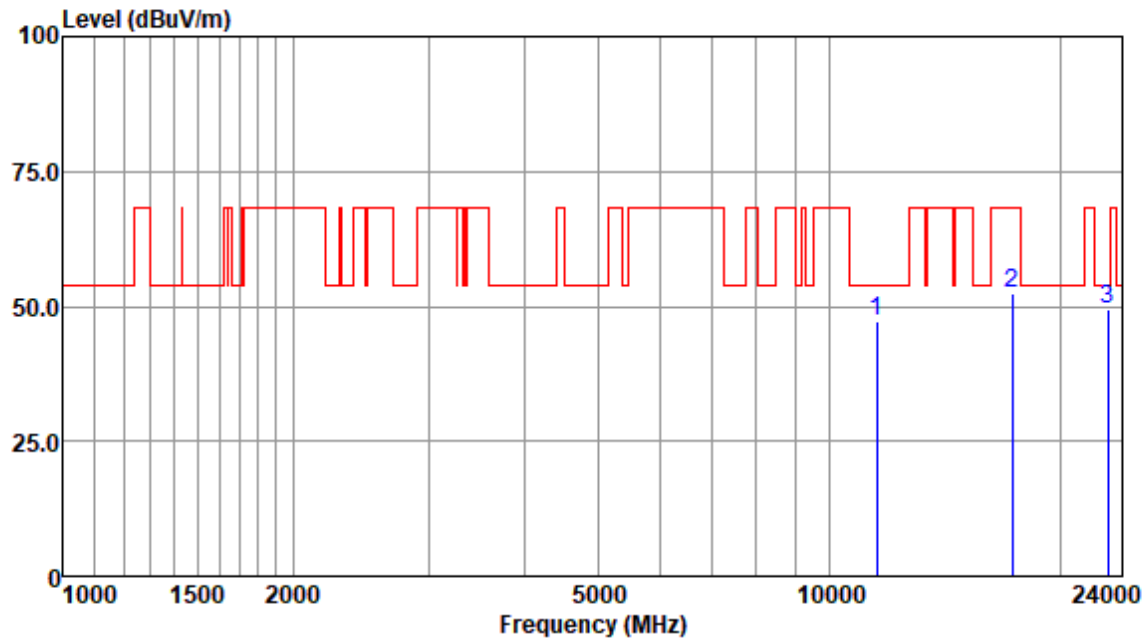
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11490.60	35.21	38.28	9.88	35.68	47.69	54.00	-6.31	Peak
17235.24	34.19	42.00	13.15	35.39	53.95	68.20	-14.25	Peak
22980.58	31.83	44.64	15.17	41.99	49.65	54.00	-4.35	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



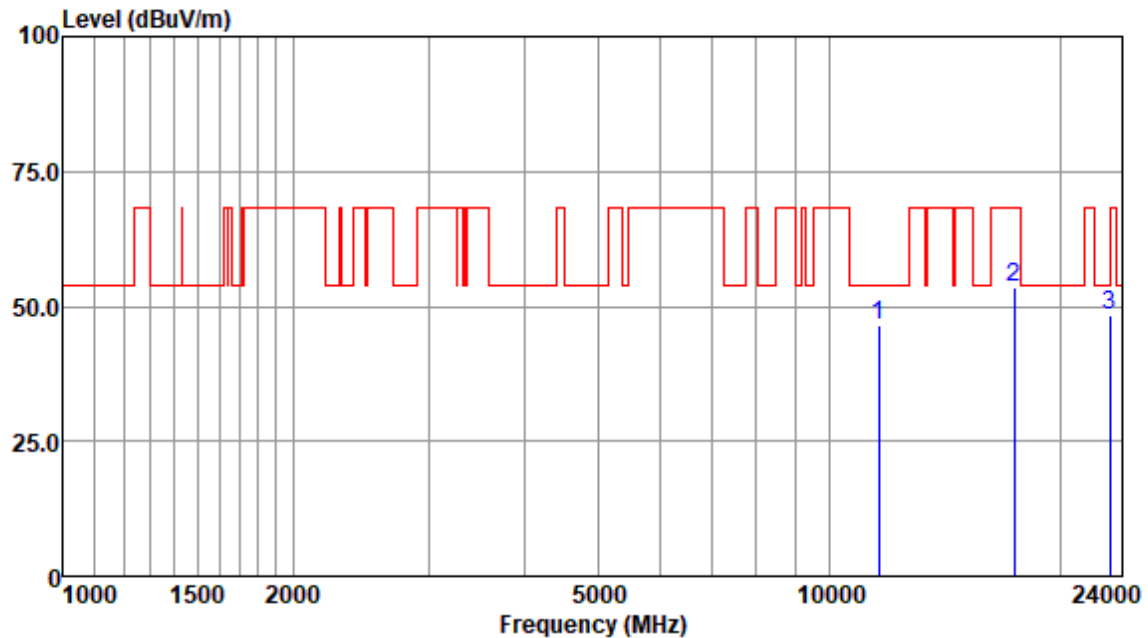
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.60	34.90	38.28	9.88	35.68	47.38	54.00	-6.62	Peak
17235.24	32.47	42.00	13.15	35.39	52.23	68.20	-15.97	Peak
22980.58	31.64	44.64	15.17	41.99	49.46	54.00	-4.54	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



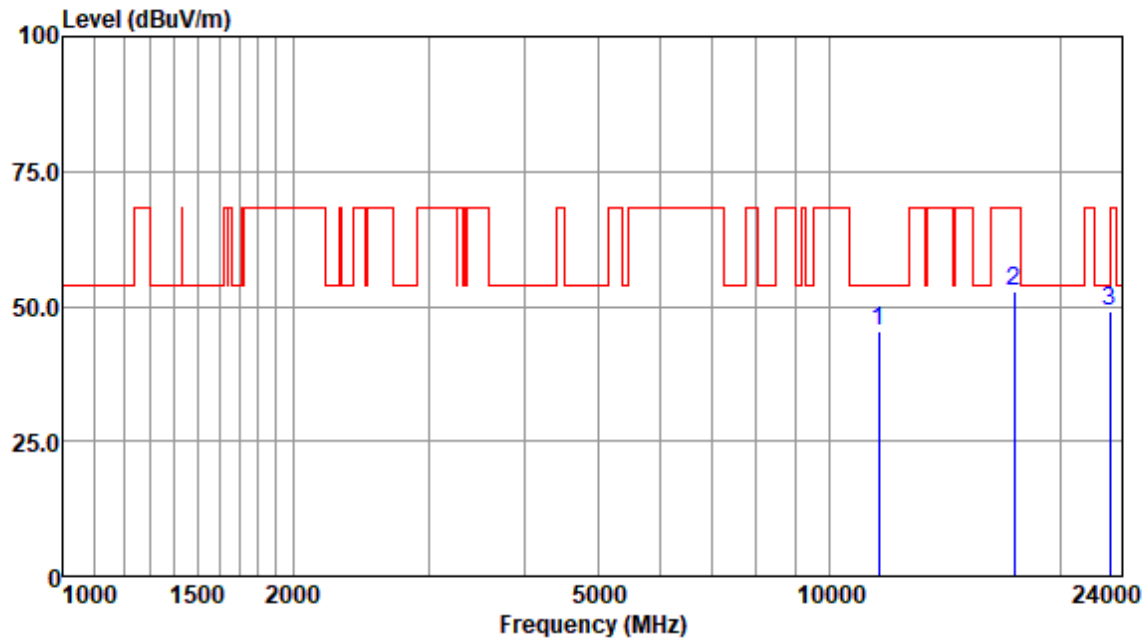
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.81	34.11	38.29	9.90	35.96	46.34	54.00	-7.66	Peak
17355.20	33.32	42.22	13.19	35.24	53.49	68.20	-14.71	Peak
23140.49	30.73	44.71	15.24	42.28	48.40	68.20	-19.80	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



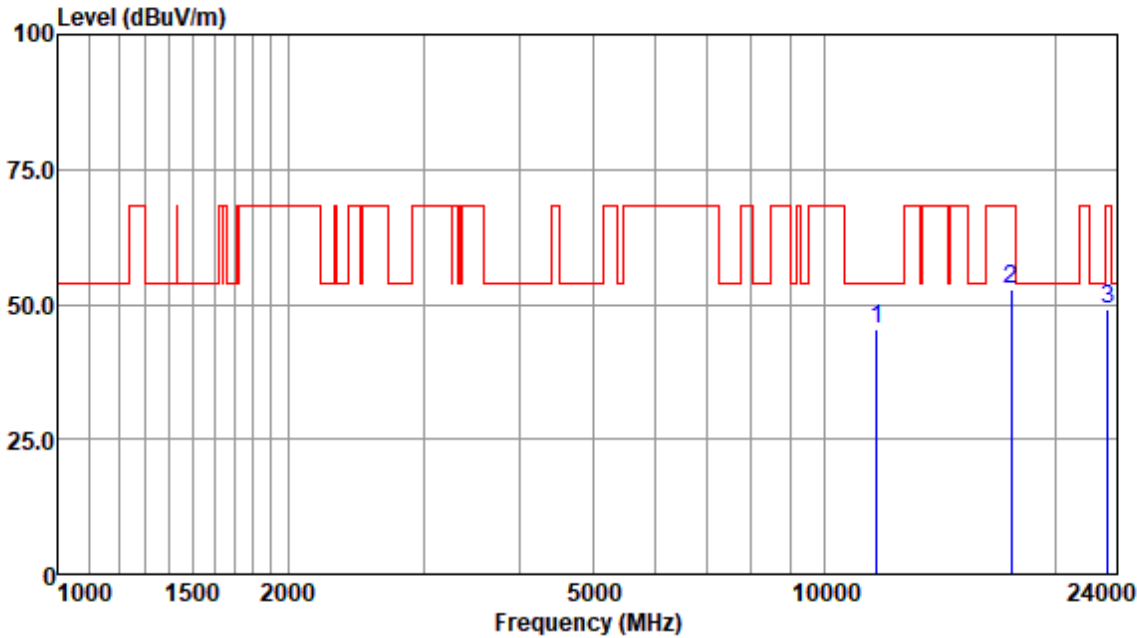
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.81	33.16	38.29	9.90	35.96	45.39	54.00	-8.61	Peak
17355.20	32.52	42.22	13.19	35.24	52.69	68.20	-15.51	Peak
23140.49	31.30	44.71	15.24	42.28	48.97	68.20	-19.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

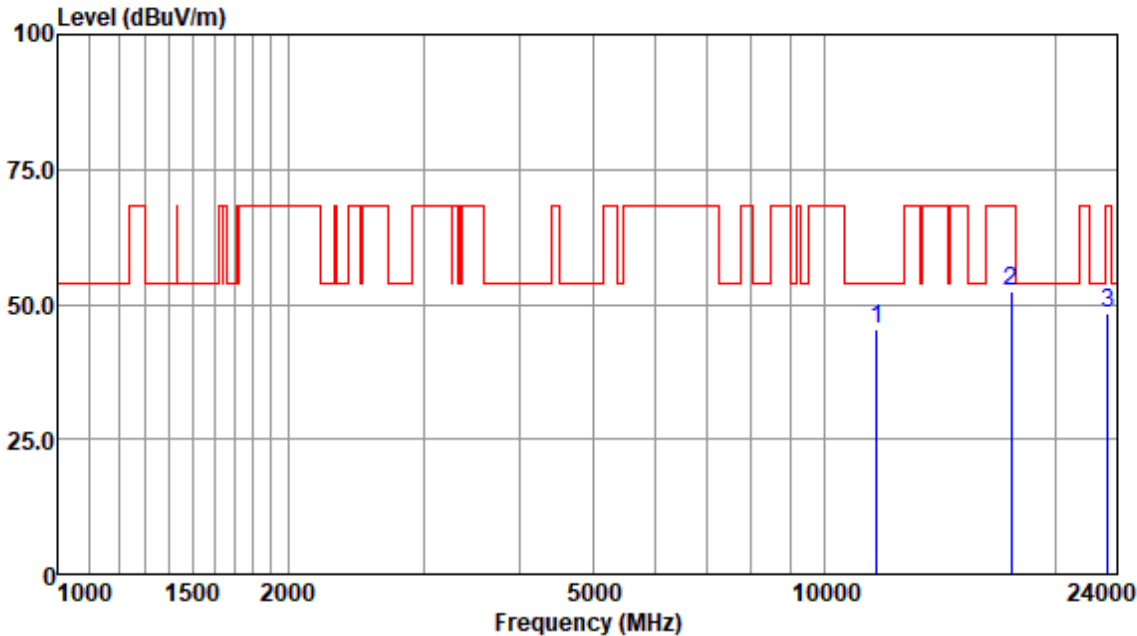


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11660.50	33.69	38.30	9.91	36.41	45.49	54.00	-8.51	Peak
17475.87	32.38	42.26	13.23	35.08	52.79	68.20	-15.41	Peak
23300.27	31.49	44.75	15.28	42.48	49.04	68.20	-19.16	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

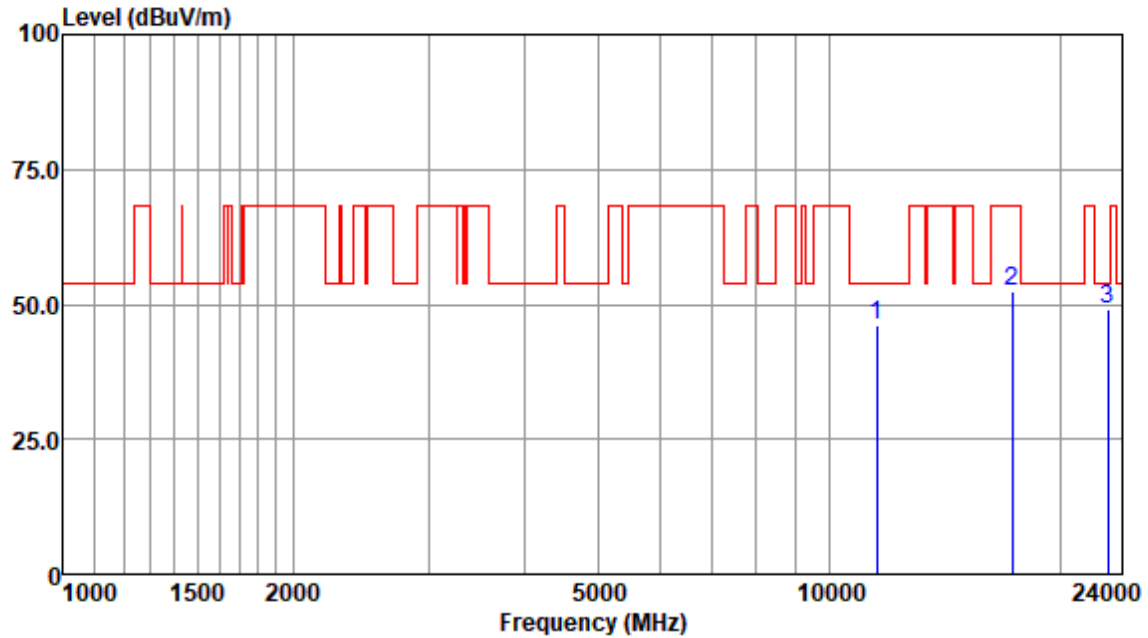


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11650.50	33.64	38.30	9.91	36.41	45.44	54.00	-8.56	Peak
17475.87	32.14	42.26	13.23	35.08	52.55	68.20	-15.65	Peak
23300.27	30.87	44.75	15.28	42.48	48.42	68.20	-19.78	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



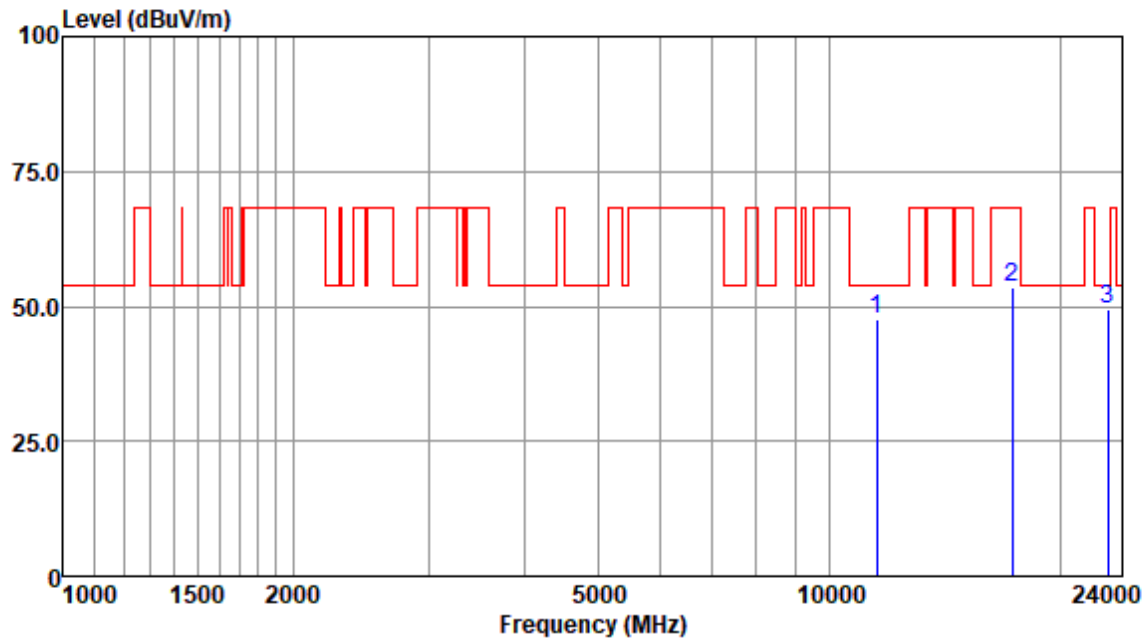
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.60	33.65	38.28	9.88	35.68	46.13	54.00	-7.87	Peak
17235.24	32.58	42.00	13.15	35.39	52.34	68.20	-15.86	Peak
22980.58	31.35	44.64	15.17	41.99	49.17	54.00	-4.83	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



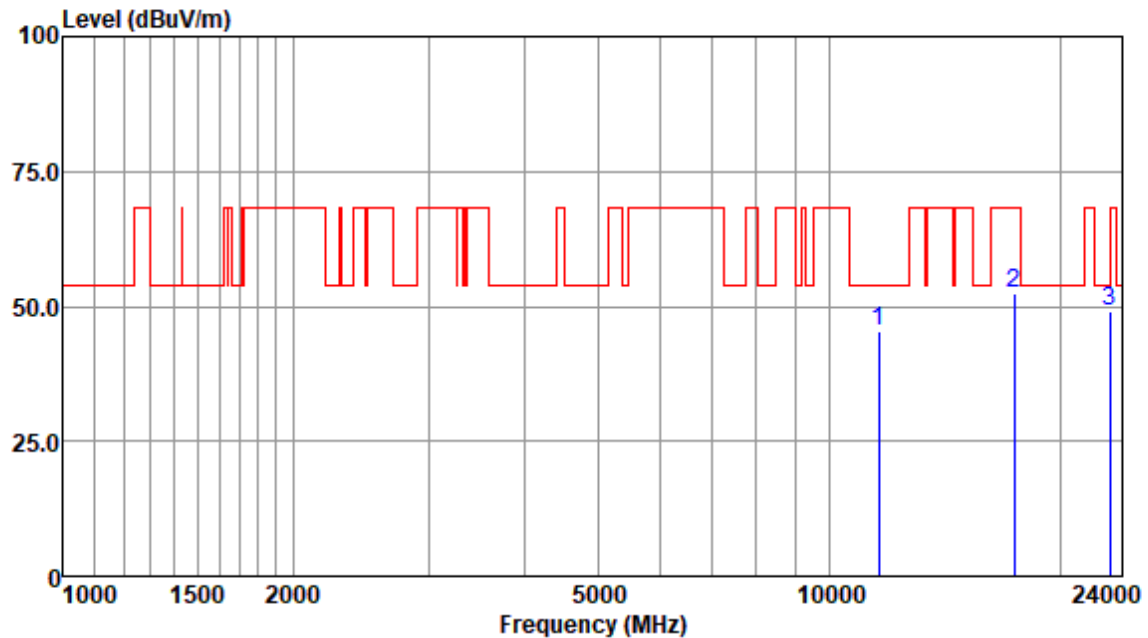
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.60	35.01	38.28	9.88	35.68	47.49	54.00	-6.51	Peak
17235.24	33.60	42.00	13.15	35.39	53.36	68.20	-14.84	Peak
22980.58	31.78	44.64	15.17	41.99	49.60	54.00	-4.40	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



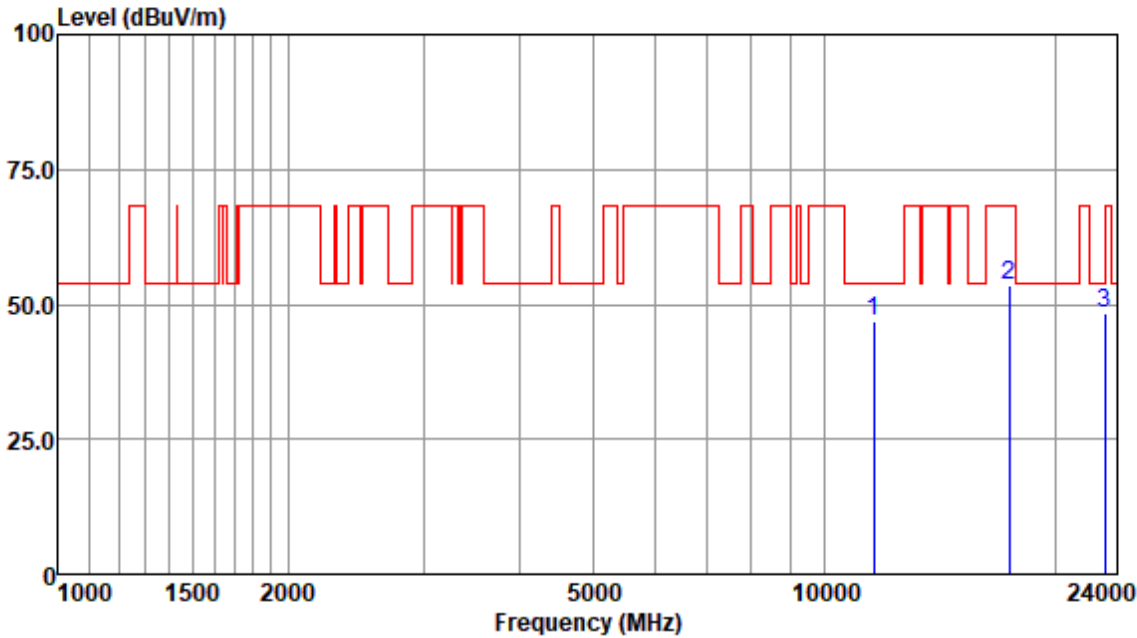
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.81	33.23	38.29	9.90	35.96	45.46	54.00	-8.54	Peak
17355.20	32.13	42.22	13.19	35.24	52.30	68.20	-15.90	Peak
23140.49	31.29	44.71	15.24	42.28	48.96	68.20	-19.24	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

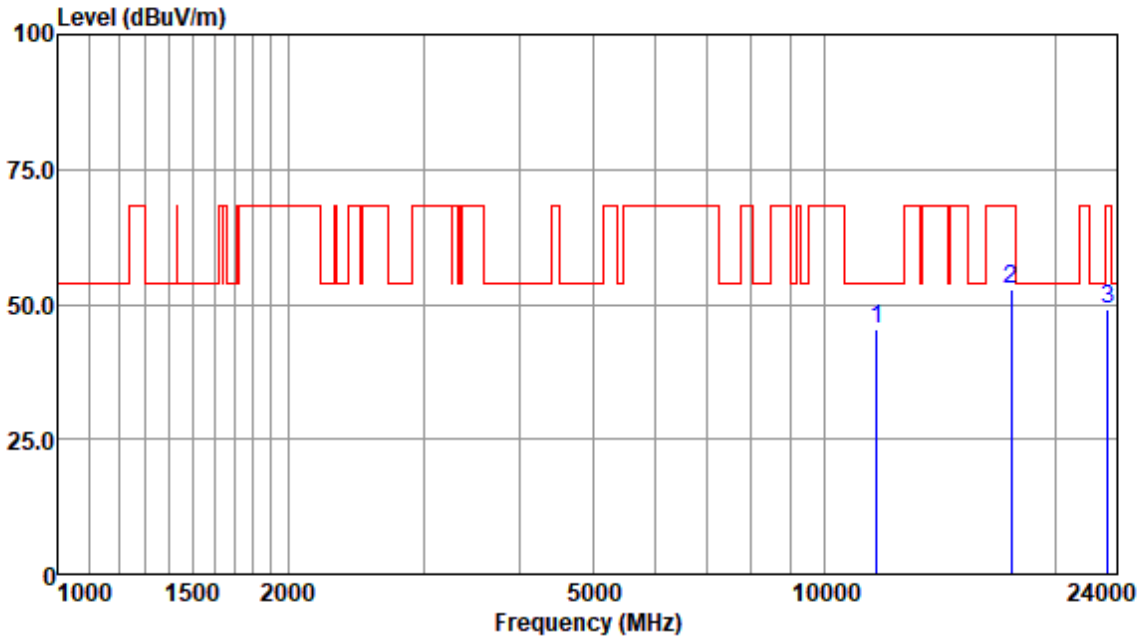


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.81	34.65	38.29	9.90	35.96	46.88	54.00	-7.12	Peak
17355.20	33.33	42.22	13.19	35.24	53.50	68.20	-14.70	Peak
23140.49	30.55	44.71	15.24	42.28	48.22	68.20	-19.98	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

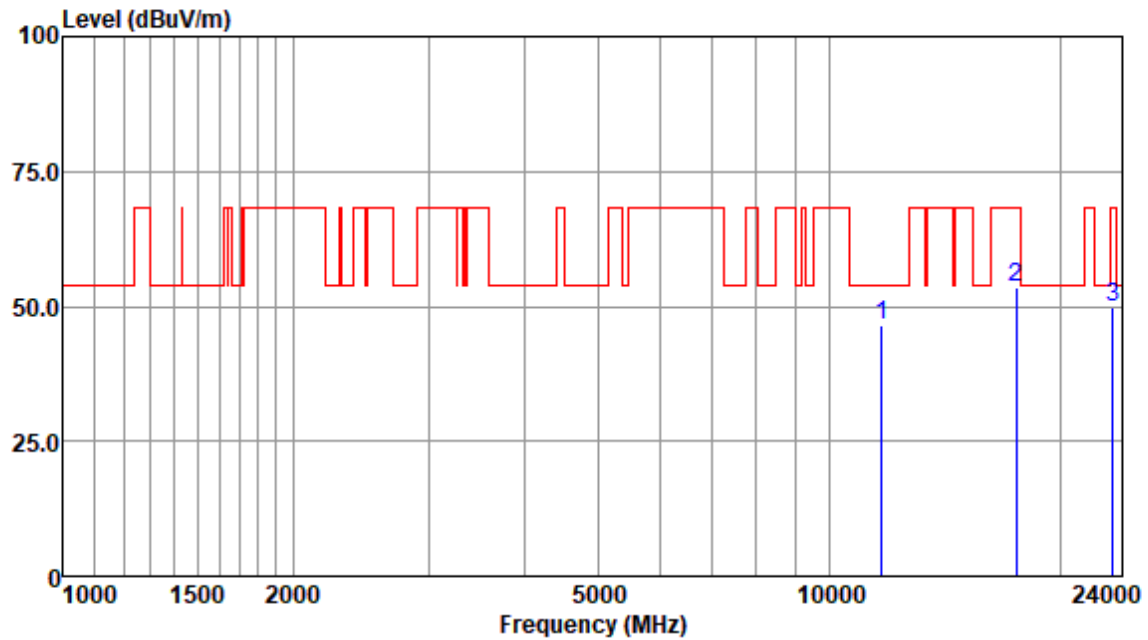


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11650.50	33.43	38.30	9.91	36.41	45.23	54.00	-8.77	Peak
17475.87	32.26	42.26	13.23	35.08	52.67	68.20	-15.53	Peak
23300.27	31.50	44.75	15.28	42.48	49.05	68.20	-19.15	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



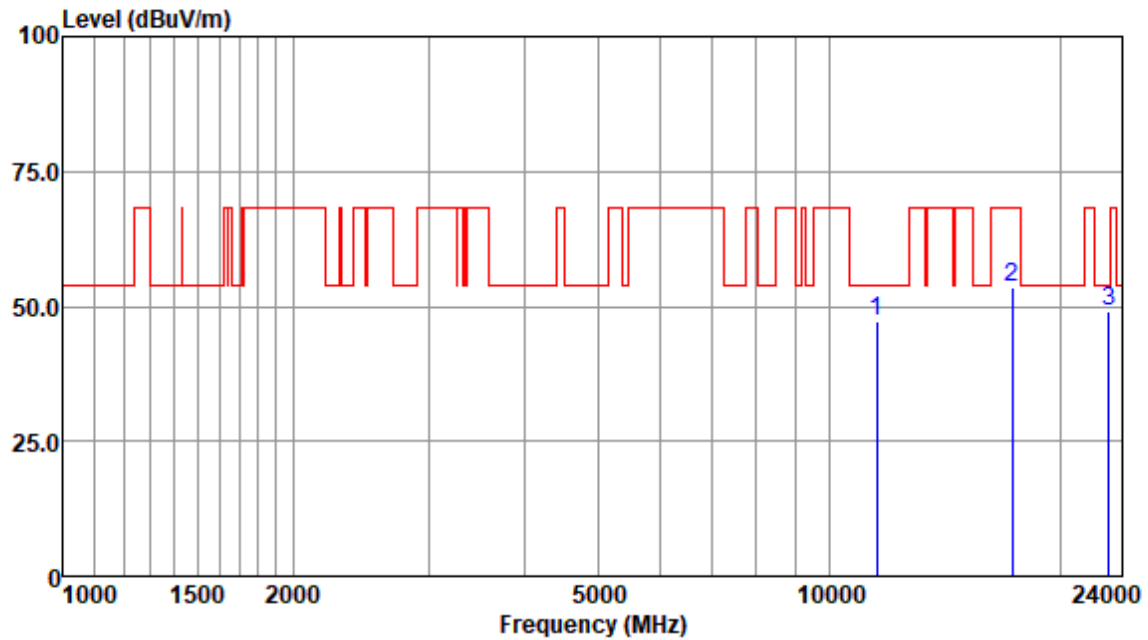
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11650.50	34.56	38.30	9.91	36.41	46.36	54.00	-7.64	Peak
17475.87	33.07	42.26	13.23	35.08	53.48	68.20	-14.72	Peak
23300.27	32.35	44.75	15.28	42.48	49.90	68.20	-18.30	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



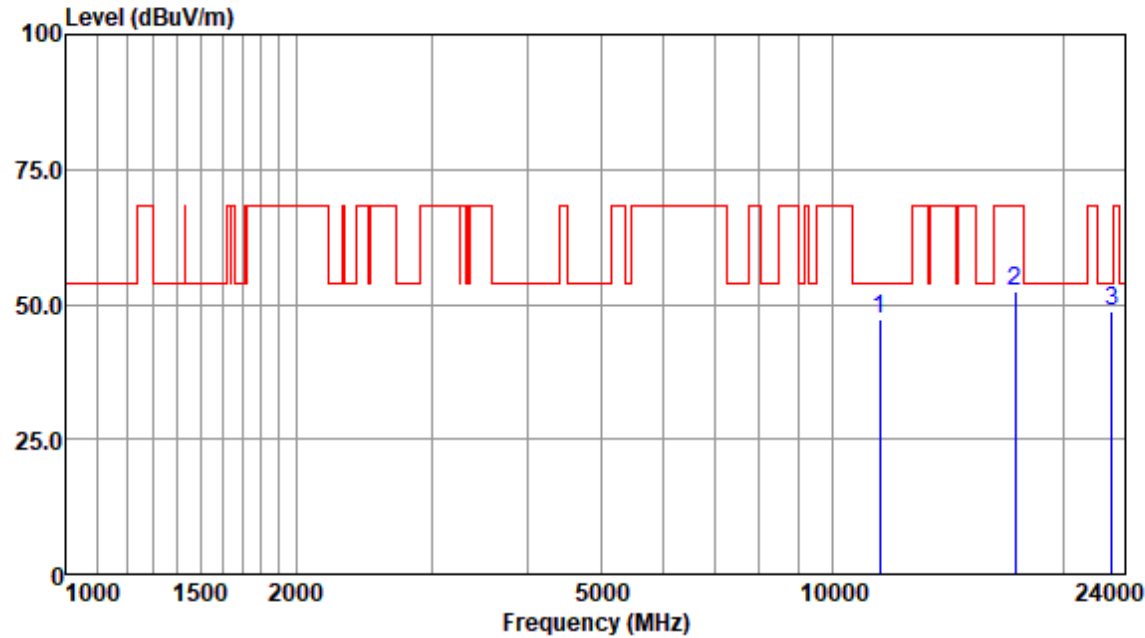
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.14	34.71	38.29	9.89	35.80	47.09	54.00	-6.91	Peak
17265.24	33.62	42.00	13.15	35.39	53.38	68.20	-14.82	Peak
23020.65	31.25	44.66	15.19	42.08	49.02	54.00	-4.98	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

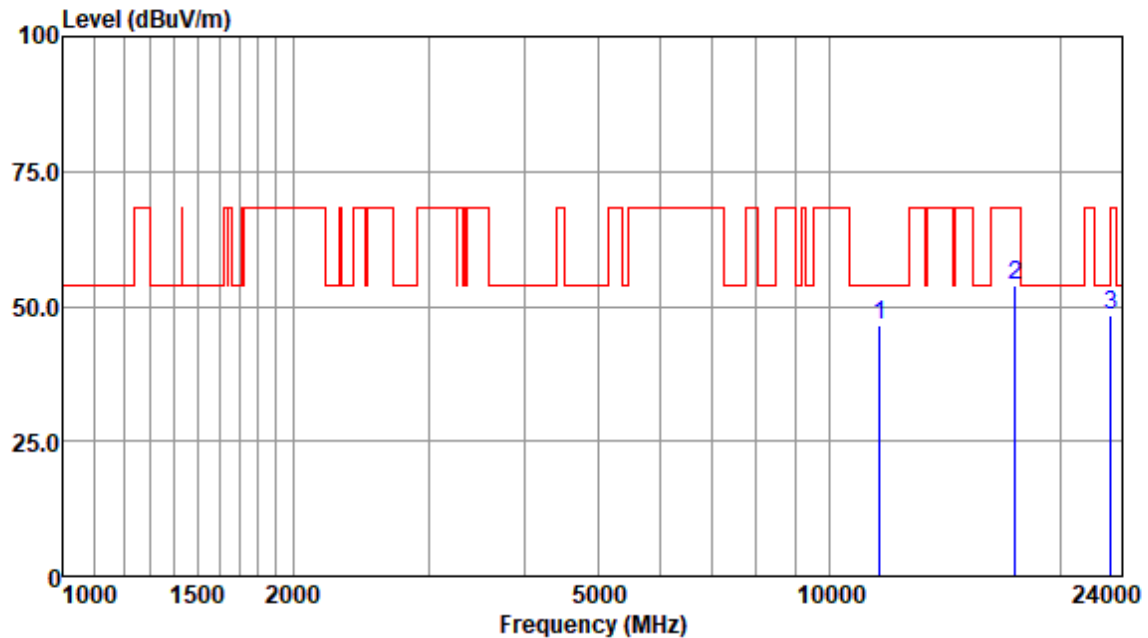


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11510.14	34.81	38.29	9.89	35.80	47.19	54.00	-6.81	Peak
17265.24	32.46	42.00	13.15	35.39	52.22	68.20	-15.98	Peak
23020.65	30.93	44.66	15.19	42.08	48.70	54.00	-5.30	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



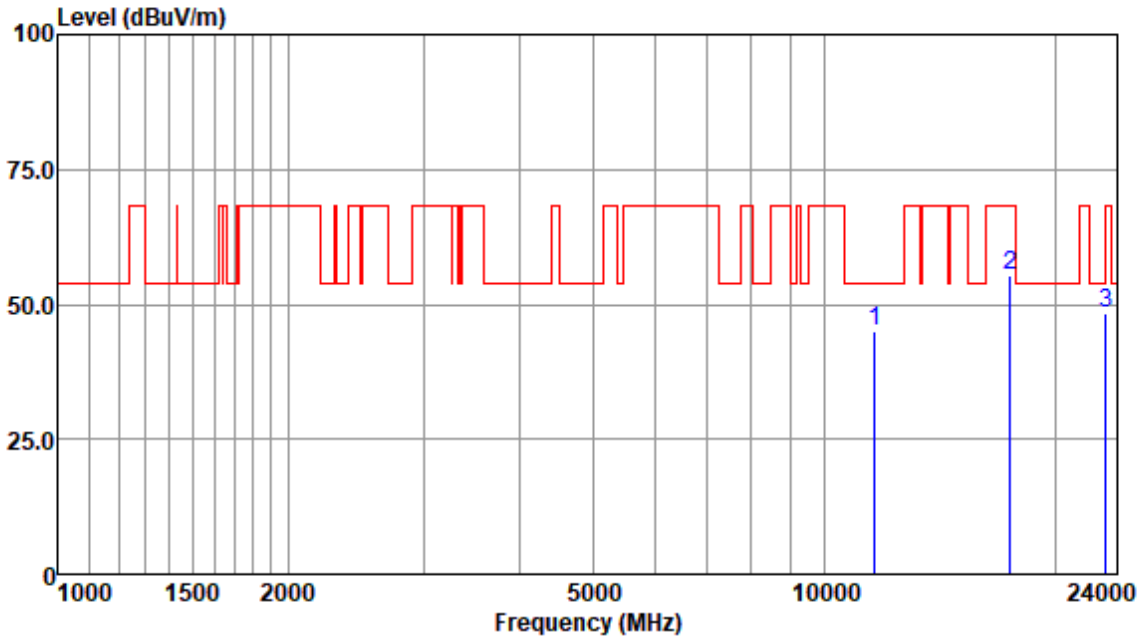
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
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MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11590.59	34.23	38.29	9.92	36.11	46.33	54.00	-7.67	Peak
17385.45	33.55	42.24	13.21	35.16	53.84	68.20	-14.36	Peak
23180.49	30.69	44.71	15.24	42.28	48.36	68.20	-19.84	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

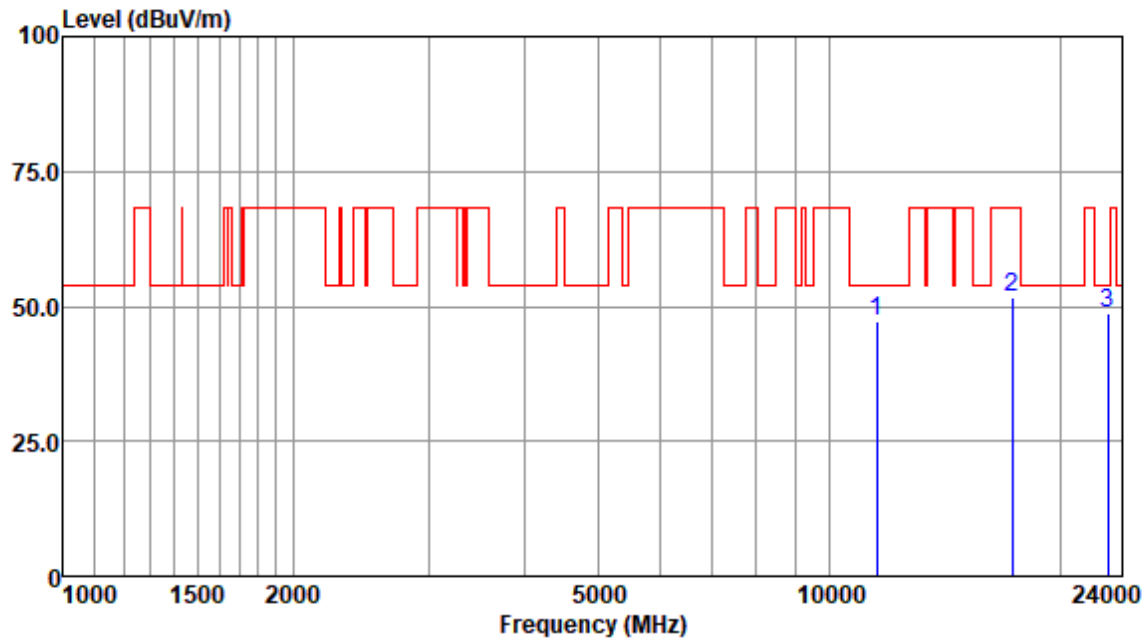


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11590.59	33.07	38.29	9.92	36.11	45.17	54.00	-8.83	Peak
17385.45	34.95	42.24	13.21	35.16	55.24	68.20	-12.96	Peak
23180.49	30.81	44.71	15.24	42.28	48.48	68.20	-19.72	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



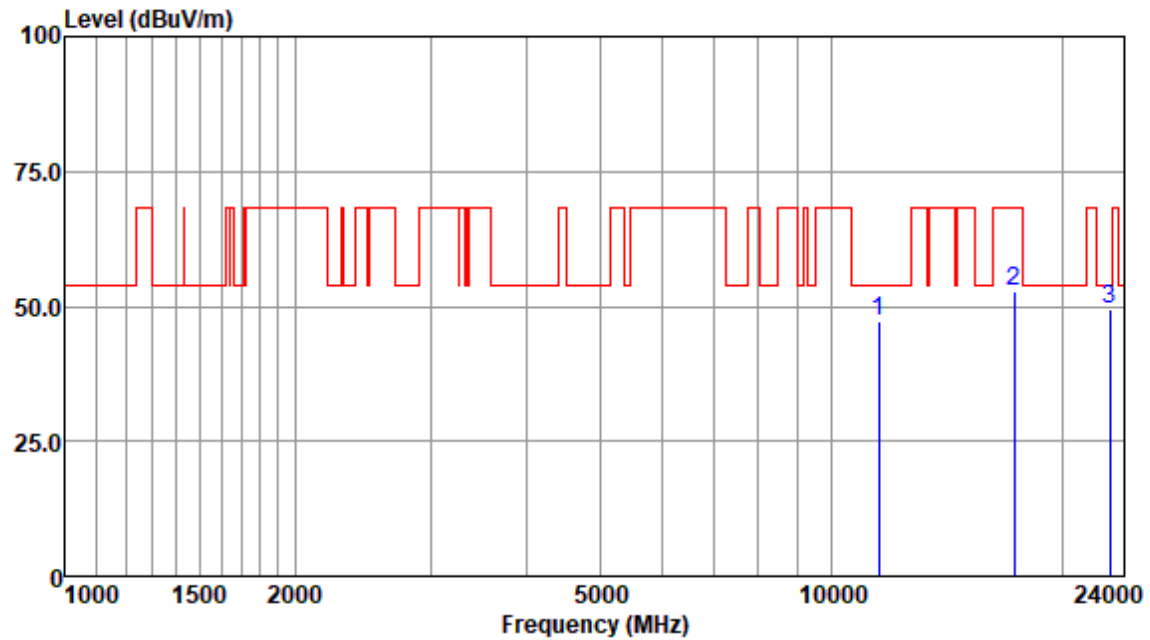
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11490.60	34.63	38.28	9.88	35.68	47.11	54.00	-6.89	Peak
17235.24	31.93	42.00	13.15	35.39	51.69	68.20	-16.51	Peak
22980.58	30.84	44.64	15.17	41.99	48.66	54.00	-5.34	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



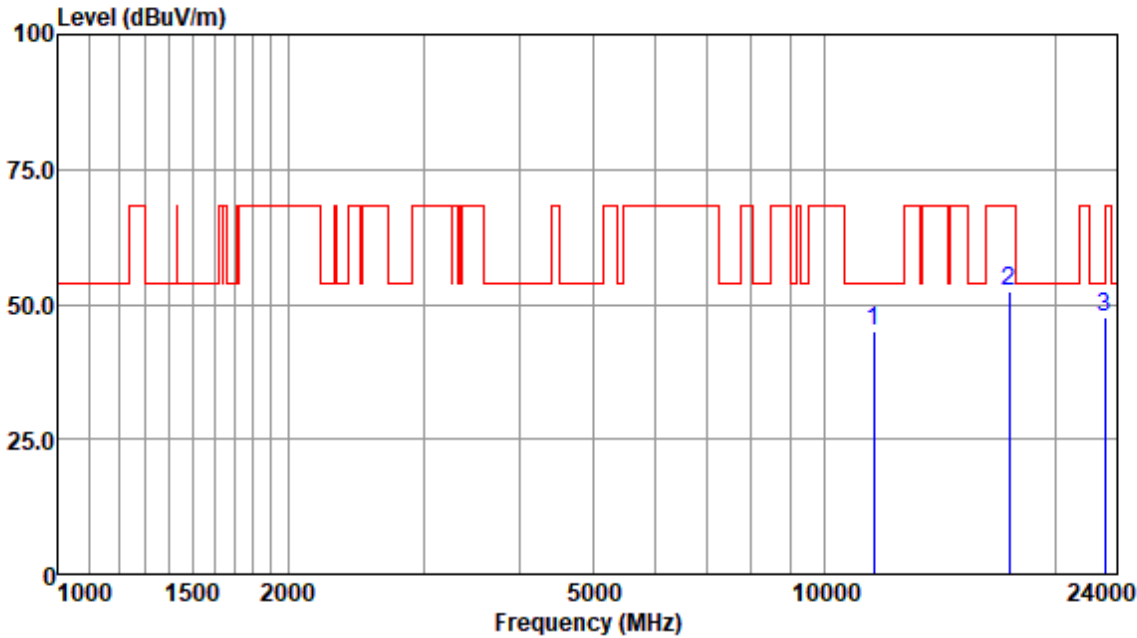
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.60	34.90	38.28	9.88	35.68	47.38	54.00	-6.62	Peak
17235.24	32.89	42.00	13.15	35.39	52.65	68.20	-15.55	Peak
22980.58	31.66	44.64	15.17	41.99	49.48	54.00	-4.52	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

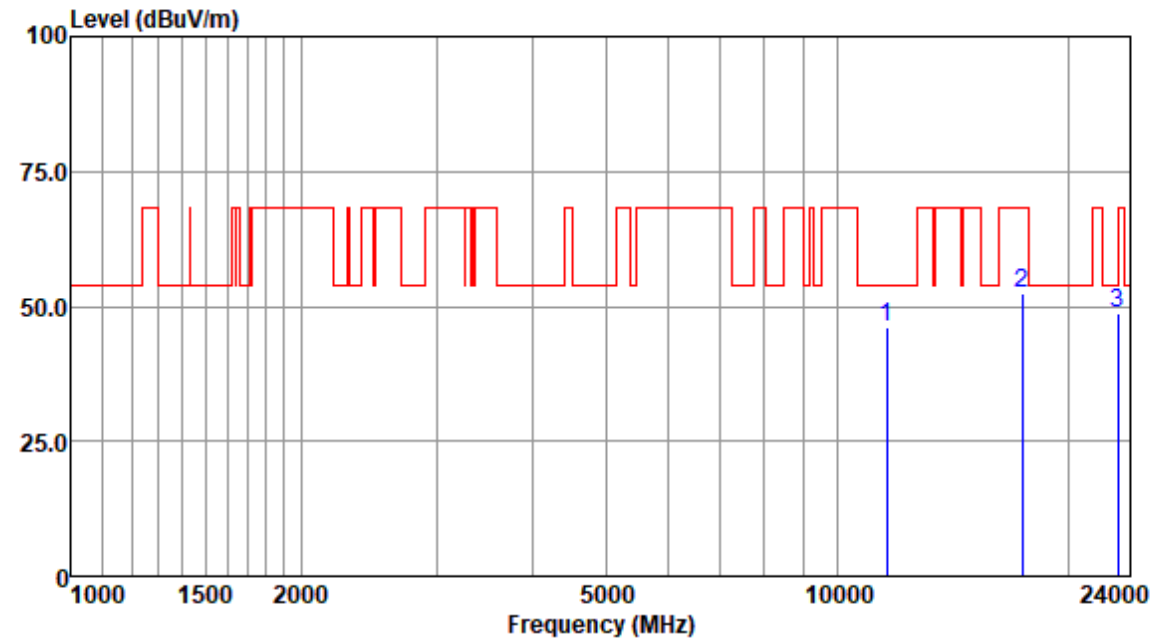


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.81	32.88	38.29	9.90	35.96	45.11	54.00	-8.89	Peak
17355.20	32.41	42.22	13.19	35.24	52.58	68.20	-15.62	Peak
23140.49	30.10	44.71	15.24	42.28	47.77	68.20	-20.43	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

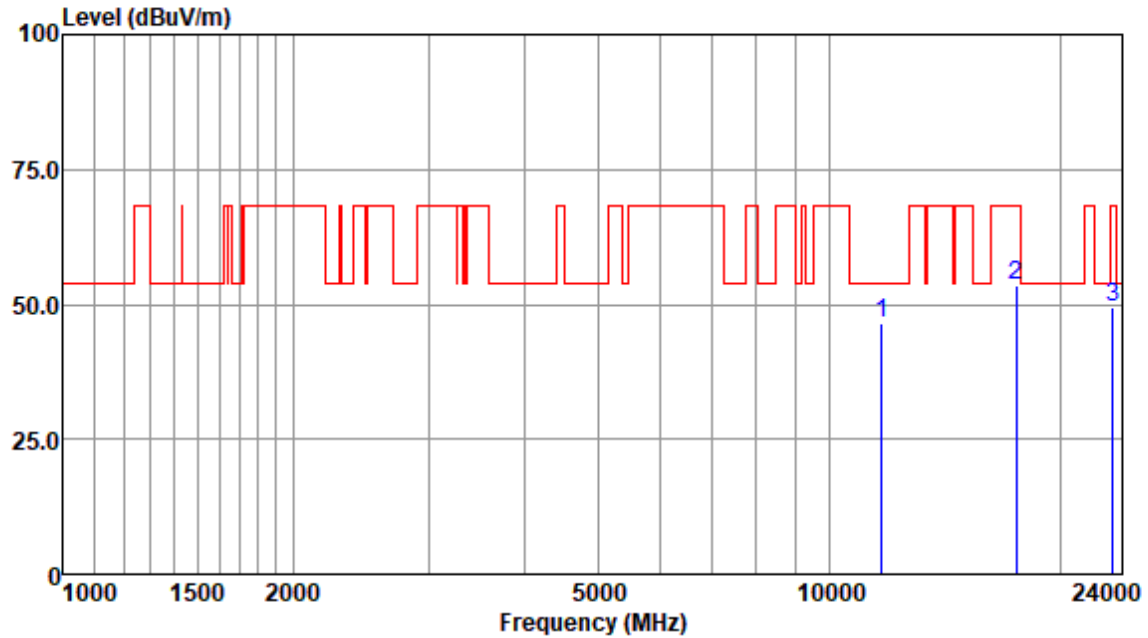


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.81	33.94	38.29	9.90	35.96	46.17	54.00	-7.83	Peak
17355.20	32.25	42.22	13.19	35.24	52.42	68.20	-15.78	Peak
23140.49	31.11	44.71	15.24	42.28	48.78	68.20	-19.42	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



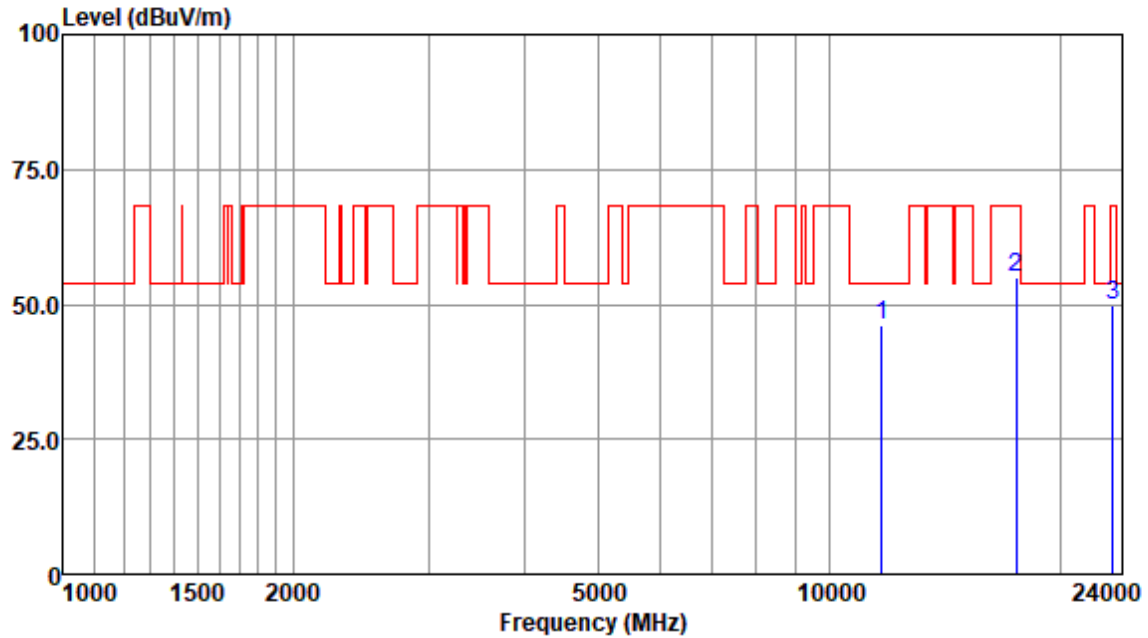
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11650.50	34.80	38.30	9.91	36.41	46.60	54.00	-7.40	Peak
17475.87	32.98	42.26	13.23	35.08	53.39	68.20	-14.81	Peak
23300.27	31.72	44.75	15.28	42.48	49.27	68.20	-18.93	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



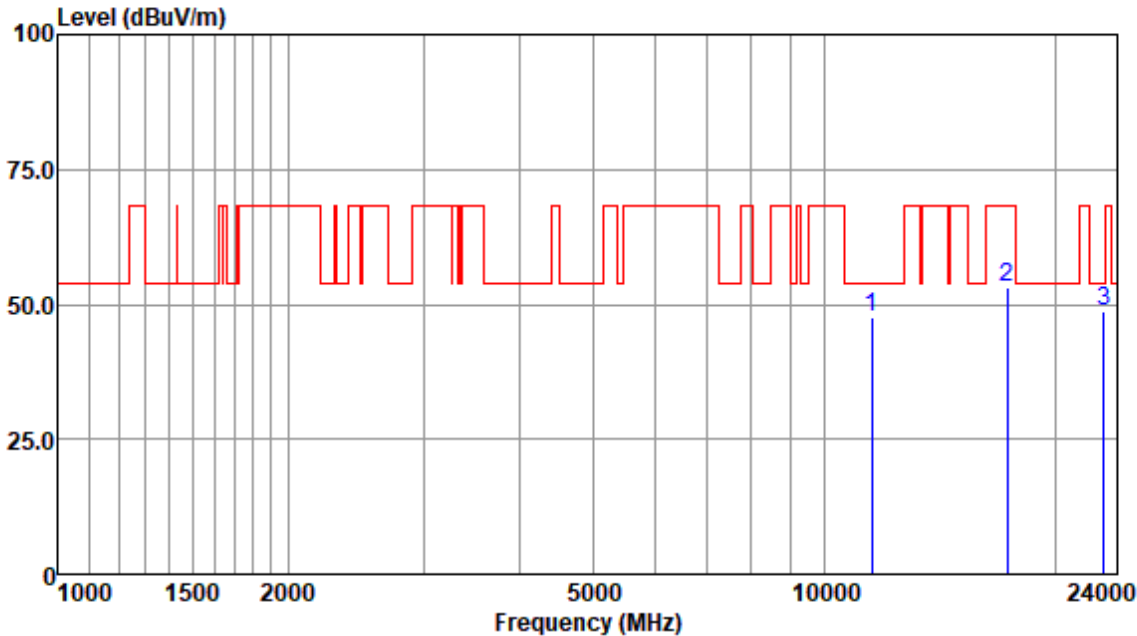
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11650.50	34.44	38.30	9.91	36.41	46.24	54.00	-7.76	Peak
17475.87	34.64	42.26	13.23	35.08	55.05	68.20	-13.15	Peak
23300.27	32.41	44.75	15.28	42.48	49.96	68.20	-18.24	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

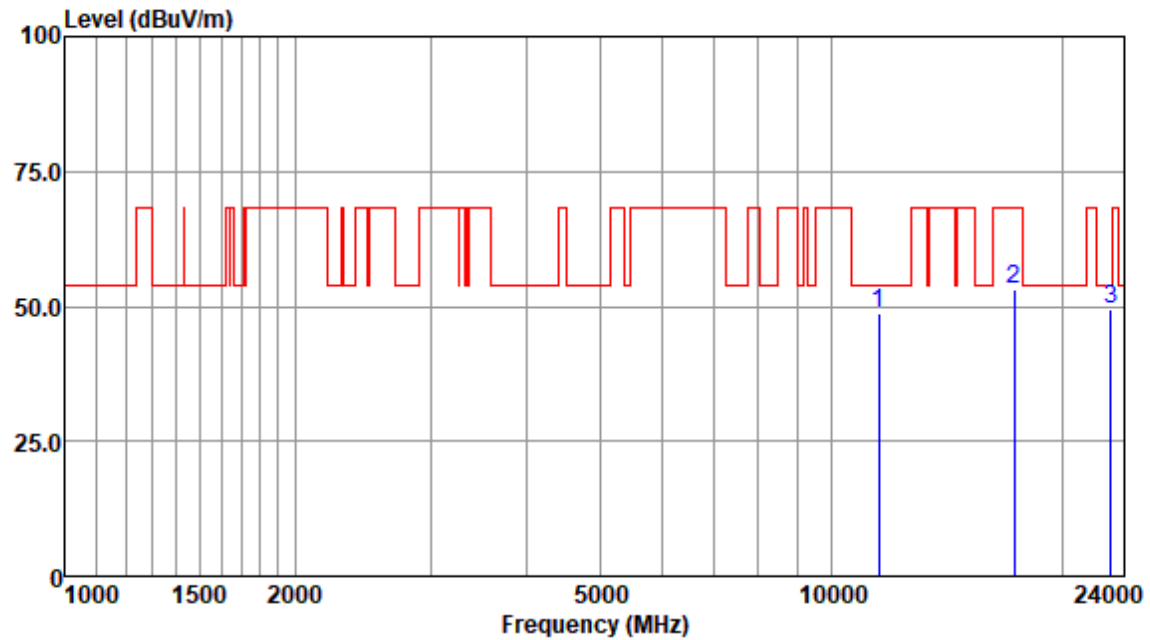


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11510.14	35.14	38.29	9.89	35.80	47.52	54.00	-6.48	Peak
17265.24	33.39	42.00	13.15	35.39	53.15	68.20	-15.05	Peak
23020.65	31.03	44.66	15.19	42.08	48.80	54.00	-5.20	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



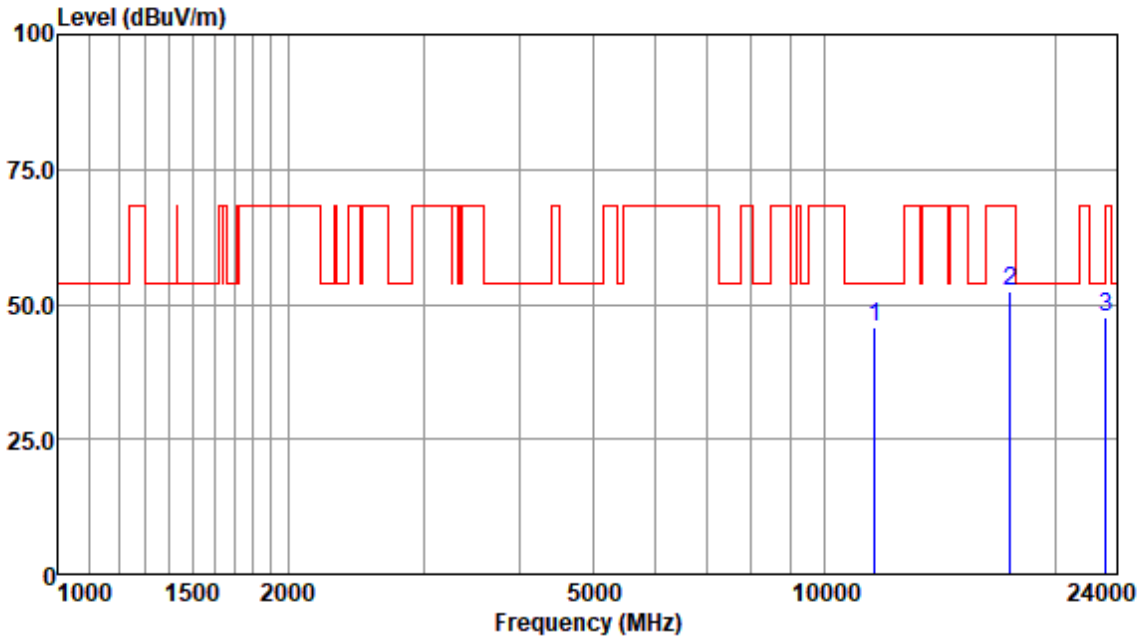
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11510.14	36.50	38.29	9.89	35.80	48.88	54.00	-5.12	Peak
17265.24	33.45	42.00	13.15	35.39	53.21	68.20	-14.99	Peak
23020.65	31.64	44.66	15.19	42.08	49.41	54.00	-4.59	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

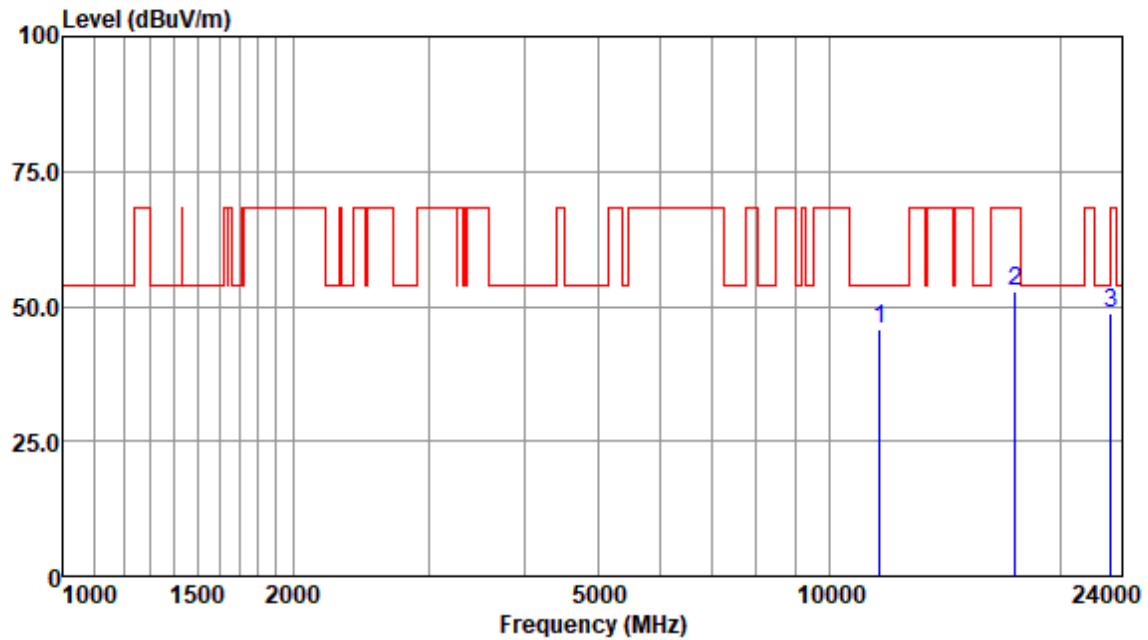


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11590.59	33.72	38.29	9.92	36.11	45.82	54.00	-8.18	Peak
17385.45	32.08	42.24	13.21	35.16	52.37	68.20	-15.83	Peak
23180.49	29.76	44.71	15.24	42.28	47.43	68.20	-20.77	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



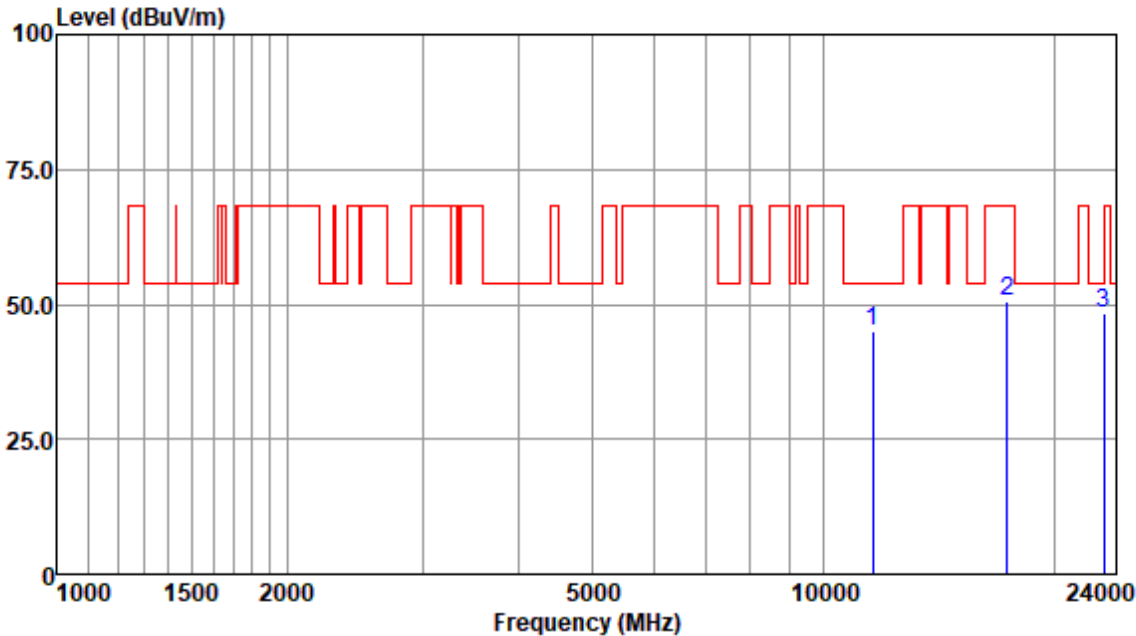
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11590.59	33.63	38.29	9.92	36.11	45.73	54.00	-8.27	Peak
17385.45	32.37	42.24	13.21	35.16	52.66	68.20	-15.54	Peak
23180.49	30.99	44.71	15.24	42.28	48.66	68.20	-19.54	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low

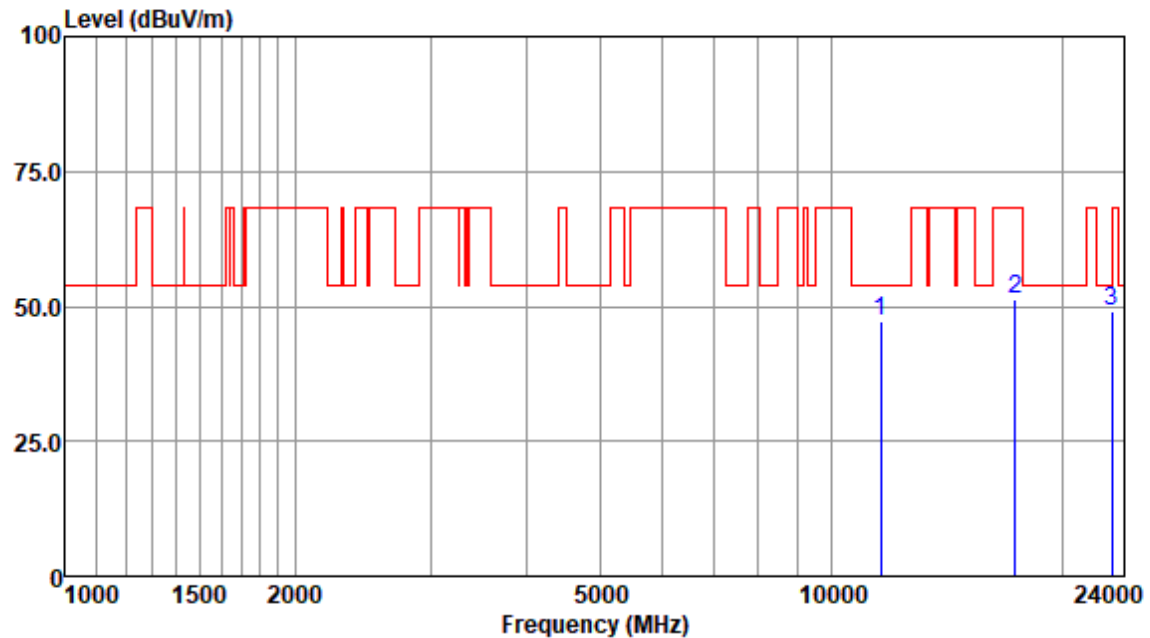


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11550.81	32.66	38.29	9.90	35.96	44.89	54.00	-9.11	Peak
17325.13	30.52	42.11	13.17	35.32	50.48	68.20	-17.72	Peak
23100.95	30.50	44.69	15.21	42.18	48.22	54.00	-5.78	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



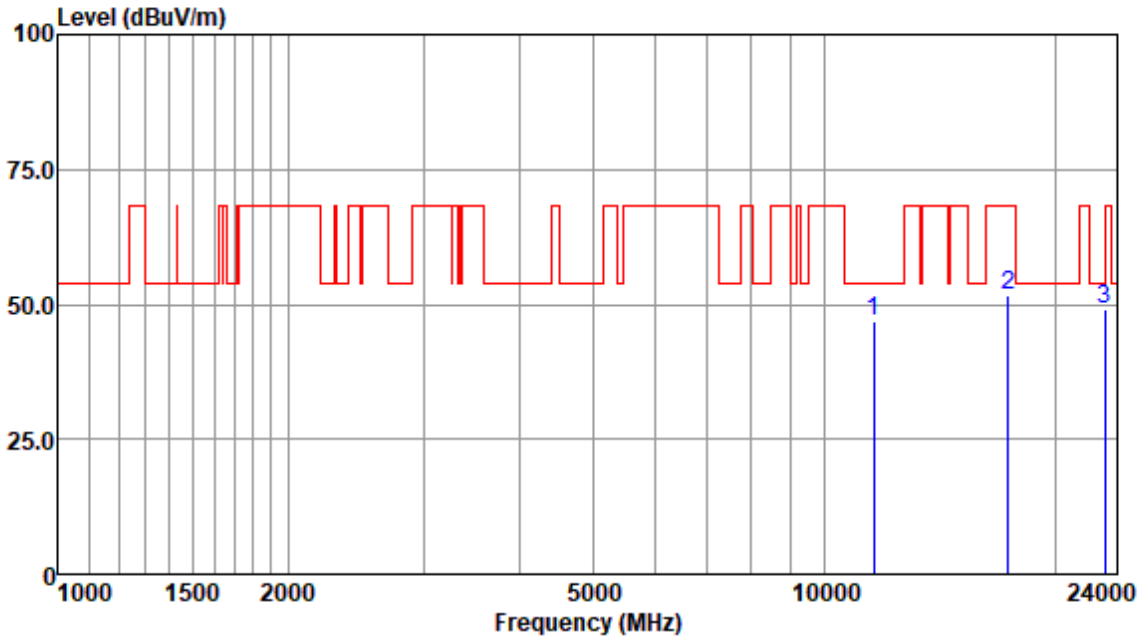
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11550.81	35.06	38.29	9.90	35.96	47.29	54.00	-6.71	Peak
17325.13	31.32	42.11	13.17	35.32	51.28	68.20	-16.92	Peak
23100.95	31.22	44.69	15.21	42.18	48.94	54.00	-5.06	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

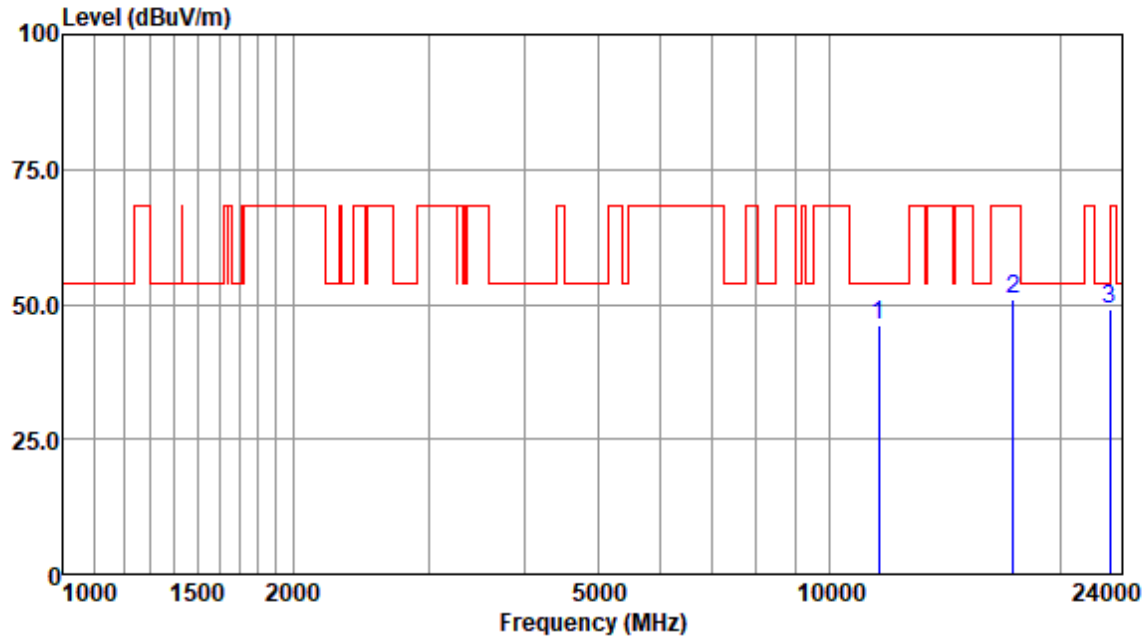


Antenna Polarity :HORIZONTAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11550.81	34.51	38.29	9.90	35.96	46.74	54.00	-7.26	Peak
17325.13	31.78	42.11	13.17	35.32	51.74	68.20	-16.46	Peak
23100.95	31.26	44.69	15.21	42.18	48.98	54.00	-5.02	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11550.81	33.74	38.29	9.90	35.96	45.97	54.00	-8.03	Peak
17325.13	30.85	42.11	13.17	35.32	50.81	68.20	-17.39	Peak
23100.95	31.24	44.69	15.21	42.18	48.96	54.00	-5.04	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

7.5 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Limit:

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

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

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

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

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

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

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C

Humidity: 57.3 % RH

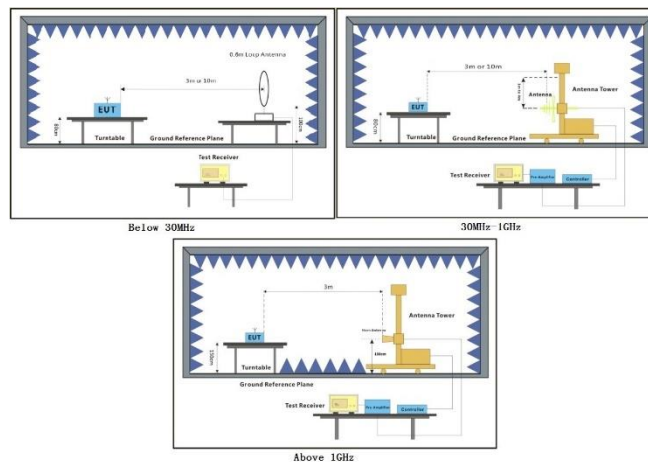
Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with

		all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
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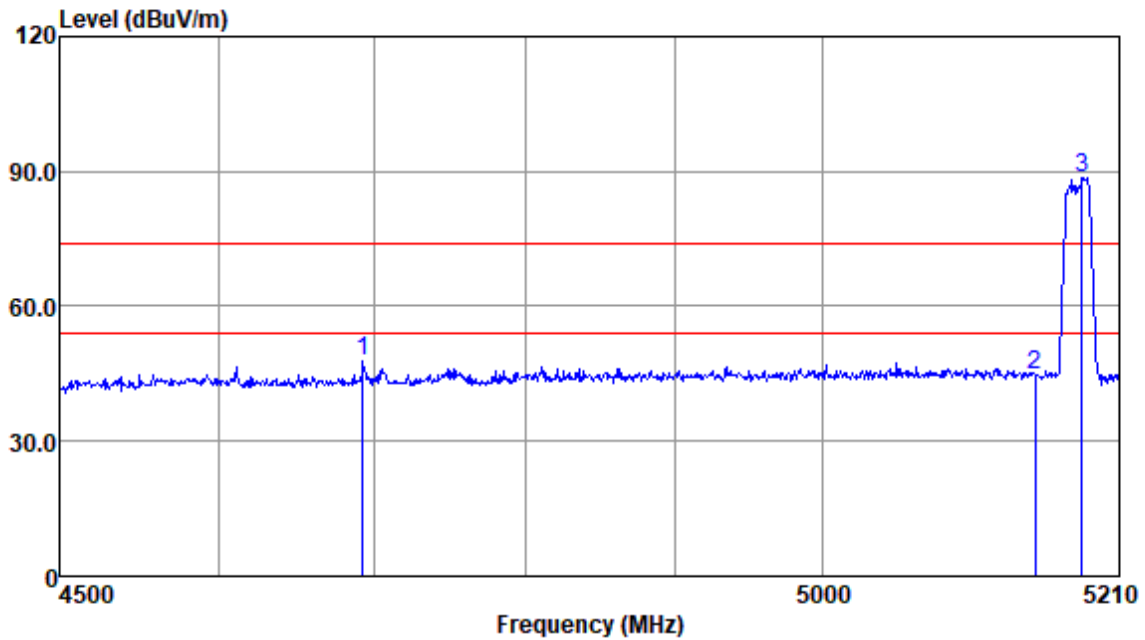
7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- 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.
 - 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 or 10 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, quasi-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

Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



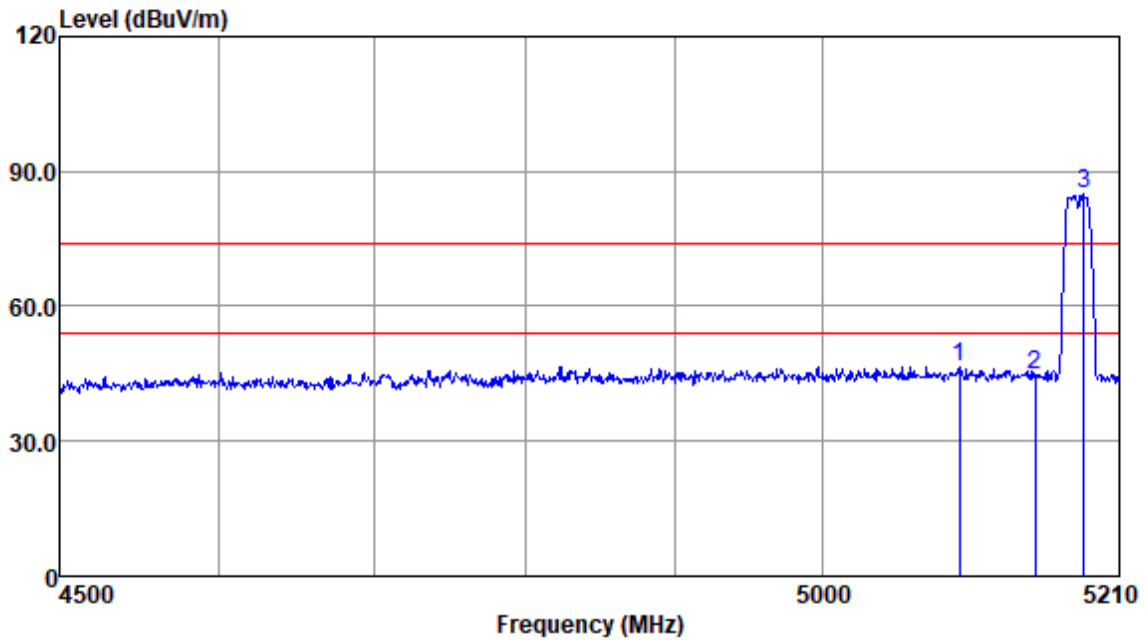
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4692.56	46.54	33.05	5.07	36.76	47.90	74.00	-26.10	Peak
5150.00	42.45	33.78	5.54	36.88	44.89	74.00	-29.11	Peak
5183.35	86.08	33.87	5.65	36.89	88.71	74.00	14.71	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



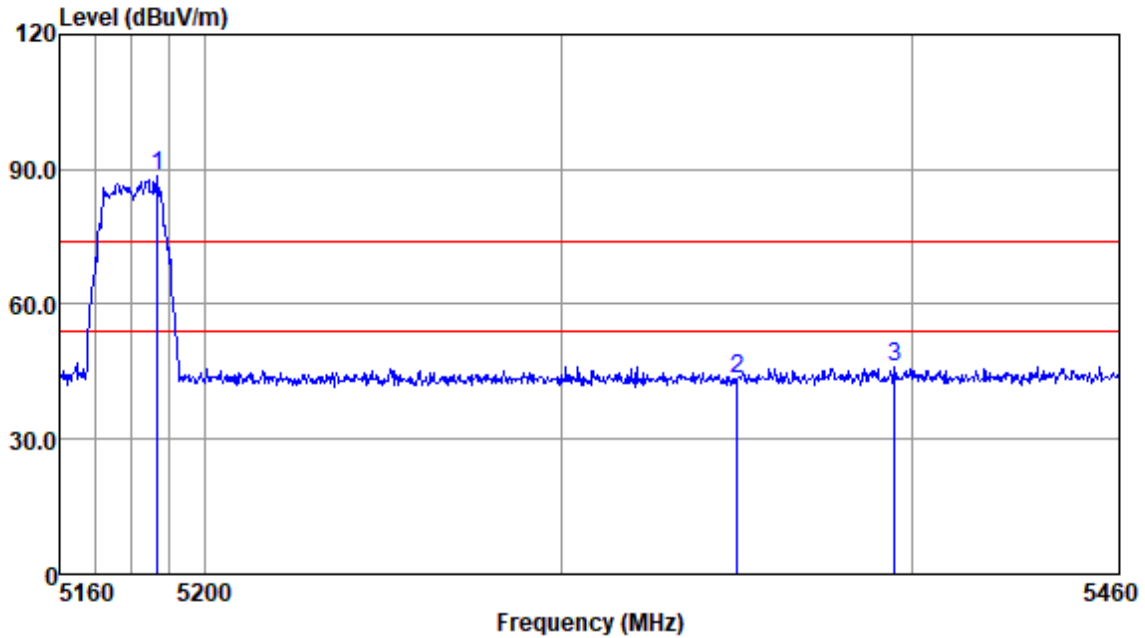
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5096.01	44.37	33.67	5.51	36.87	46.68	74.00	-27.32	Peak
5150.00	42.13	33.78	5.54	36.88	44.57	74.00	-29.43	Peak
5184.87	82.41	33.87	5.65	36.89	85.04	74.00	11.04	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



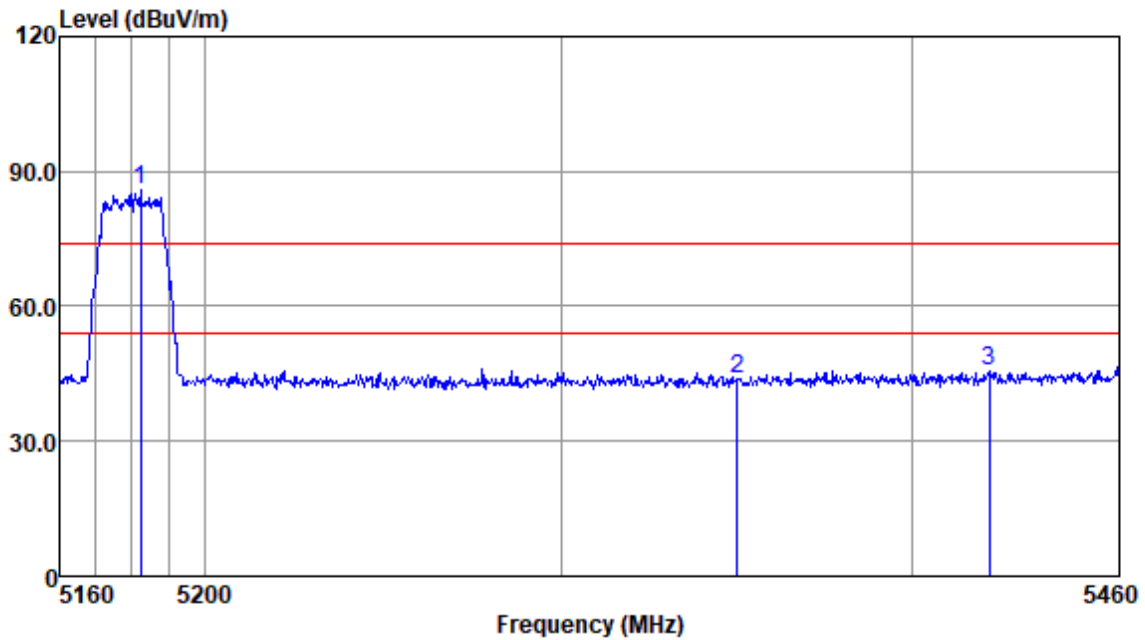
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5187.19	85.90	33.91	5.65	36.89	88.57	74.00	14.57	Peak
5350.00	40.72	34.19	5.60	36.94	43.57	74.00	-30.43	Peak
5394.98	43.11	34.34	5.70	36.95	46.20	74.00	-27.80	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



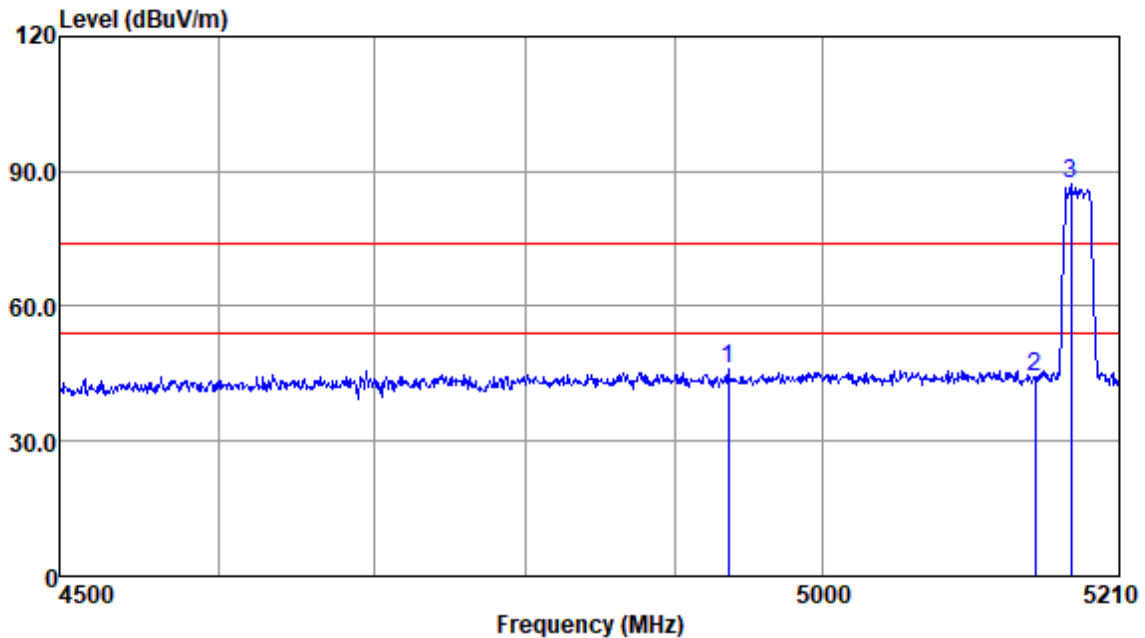
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5182.50	83.07	33.87	5.65	36.89	85.70	74.00	11.70	Peak
5350.00	41.08	34.19	5.60	36.94	43.93	74.00	-30.07	Peak
5422.18	42.49	34.39	5.64	36.96	45.56	74.00	-28.44	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



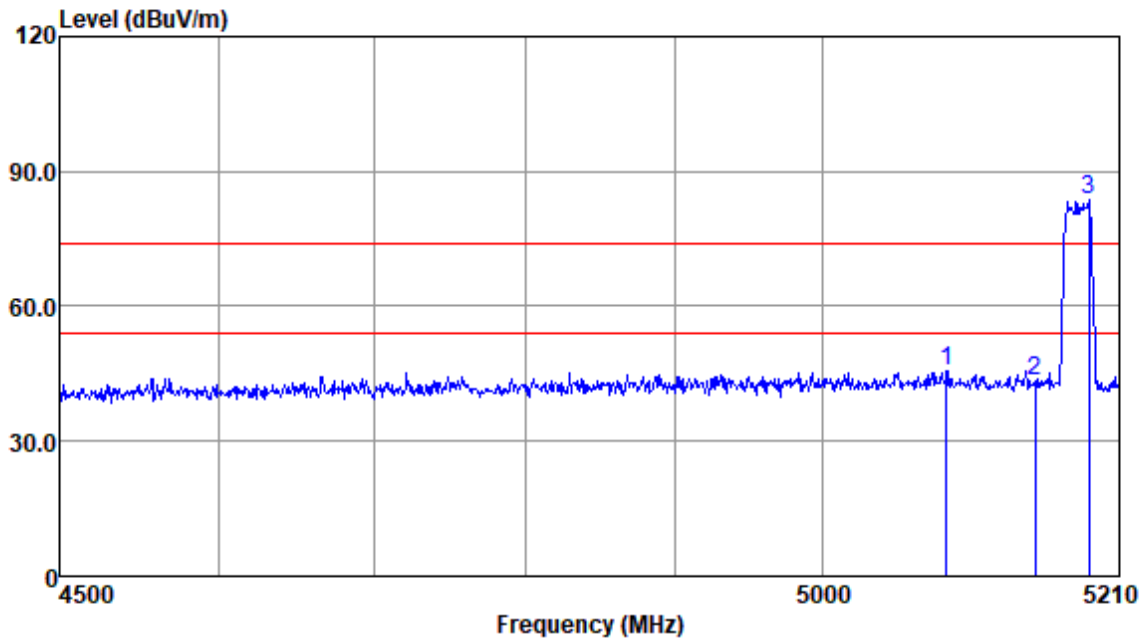
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4935.83	43.89	33.64	5.37	36.82	46.08	74.00	-27.92	Peak
5150.00	41.92	33.78	5.54	36.88	44.36	74.00	-29.64	Peak
5175.01	84.49	33.87	5.65	36.89	87.12	74.00	13.12	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



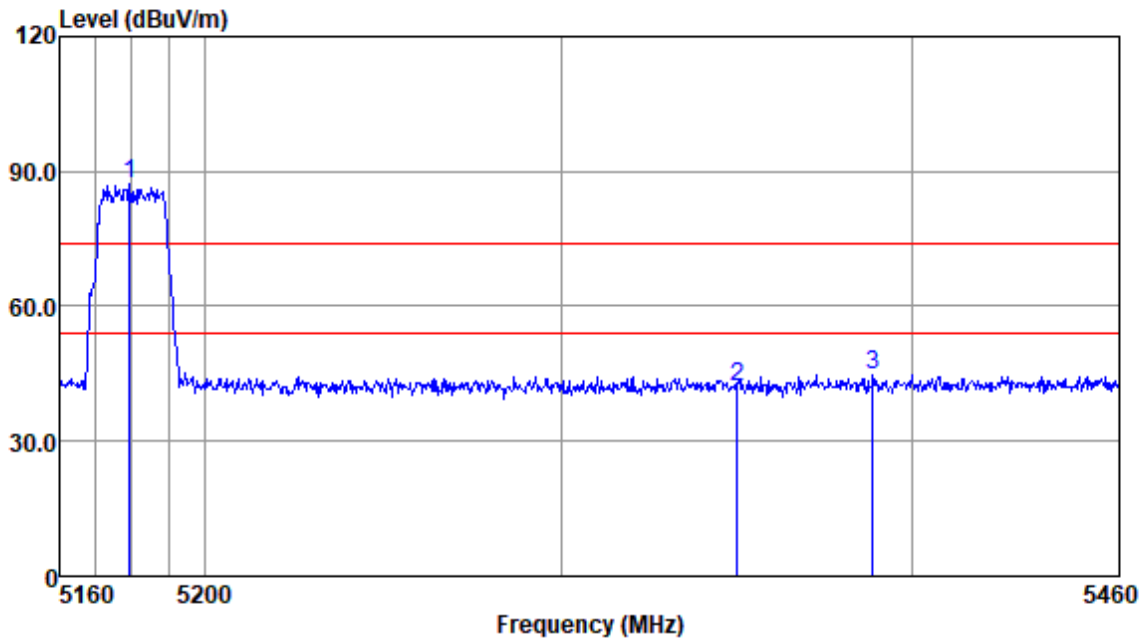
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5087.06	43.33	33.67	5.51	36.87	45.64	74.00	-28.36	Peak
5150.00	40.79	33.78	5.54	36.88	43.23	74.00	-30.77	Peak
5187.91	80.95	33.91	5.65	36.89	83.62	74.00	9.62	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



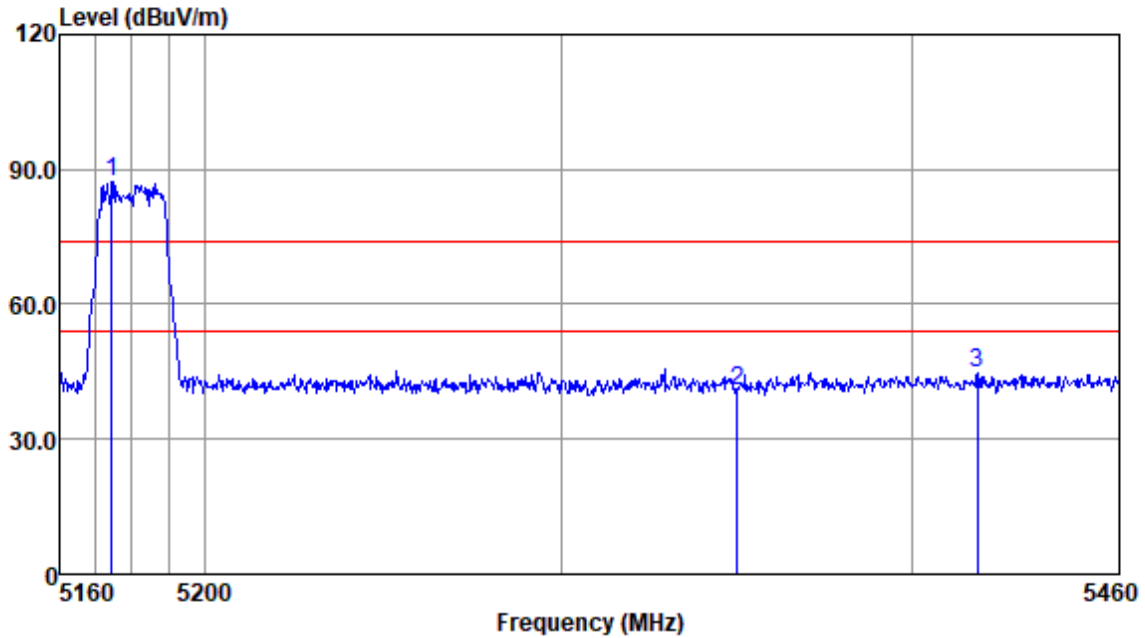
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5179.28	84.50	33.87	5.65	36.89	87.13	74.00	13.13	Peak
5350.00	39.22	34.19	5.60	36.94	42.07	74.00	-31.93	Peak
5388.58	41.68	34.34	5.70	36.95	44.77	74.00	-29.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



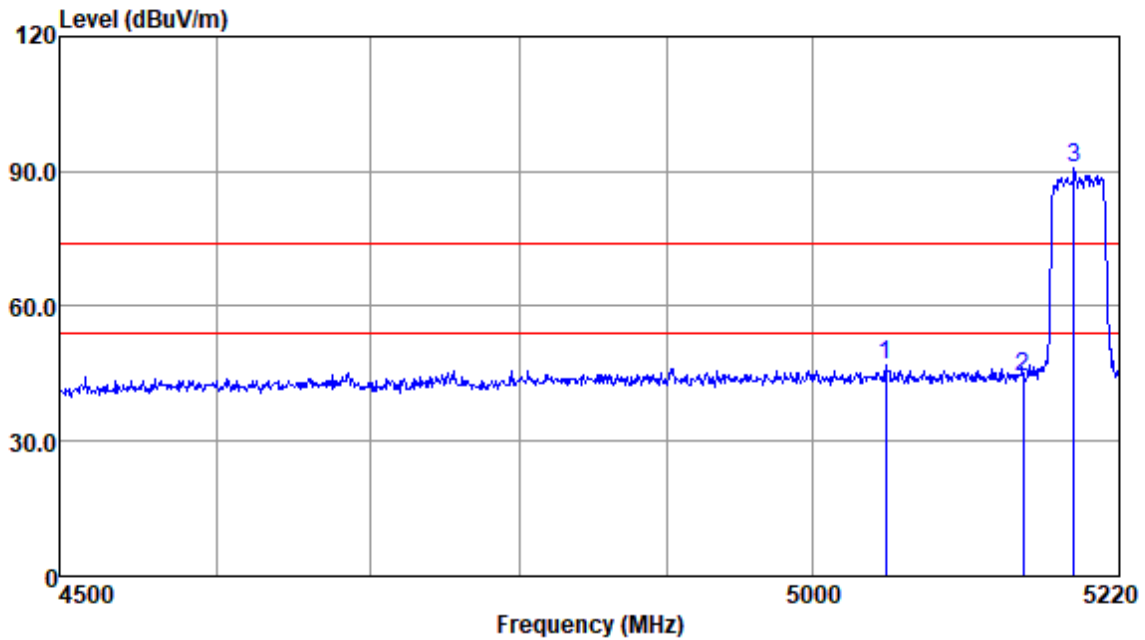
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5174.31	84.76	33.87	5.65	36.89	87.39	74.00	13.39	Peak
5350.00	37.67	34.19	5.60	36.94	40.52	74.00	-33.48	Peak
5418.81	41.84	34.39	5.64	36.96	44.91	74.00	-29.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



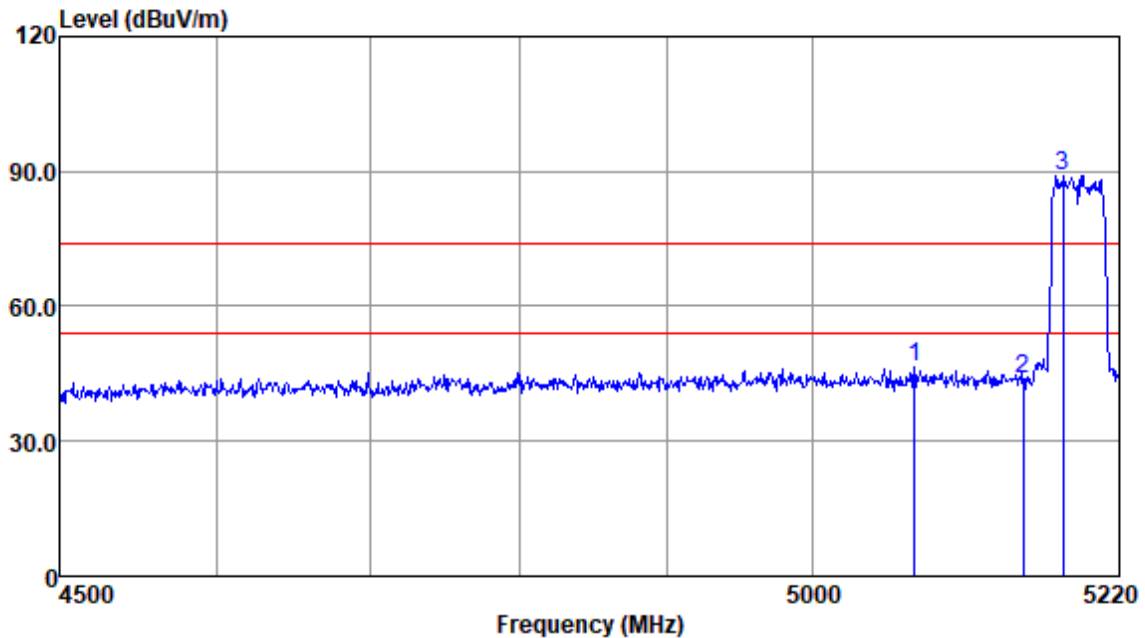
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5052.31	44.61	33.69	5.59	36.85	47.04	74.00	-26.96	Peak
5150.00	41.65	33.78	5.54	36.88	44.09	74.00	-29.91	Peak
5186.79	88.19	33.91	5.65	36.89	90.86	74.00	16.86	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



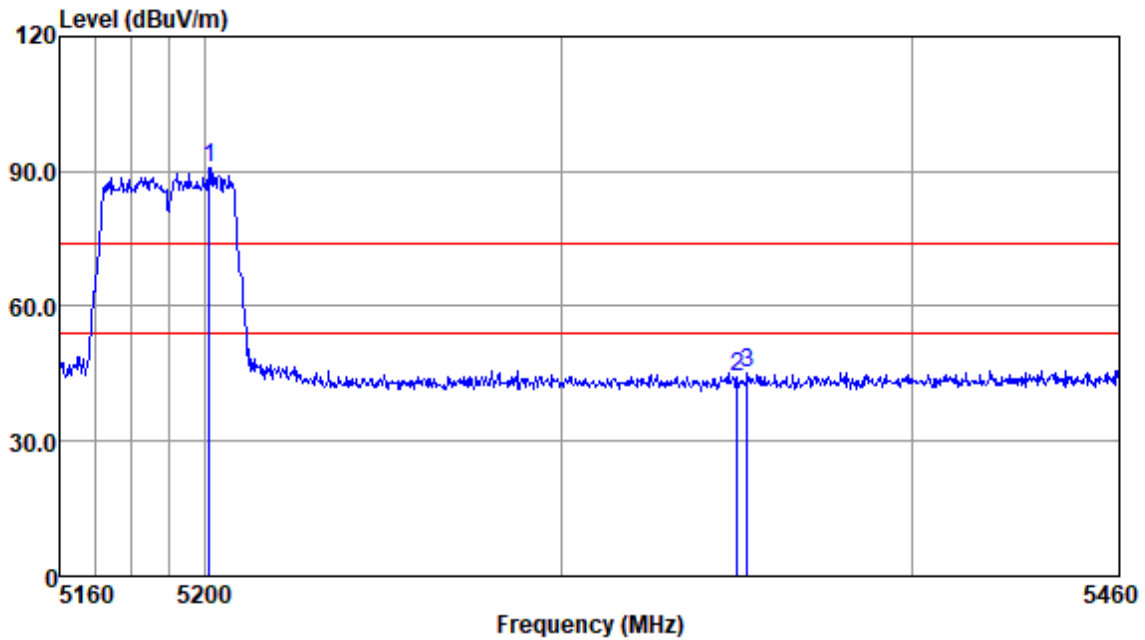
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5072.59	43.97	33.68	5.64	36.86	46.43	74.00	-27.57	Peak
5150.00	41.47	33.78	5.54	36.88	43.91	74.00	-30.09	Peak
5179.10	86.46	33.87	5.65	36.89	89.09	74.00	15.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



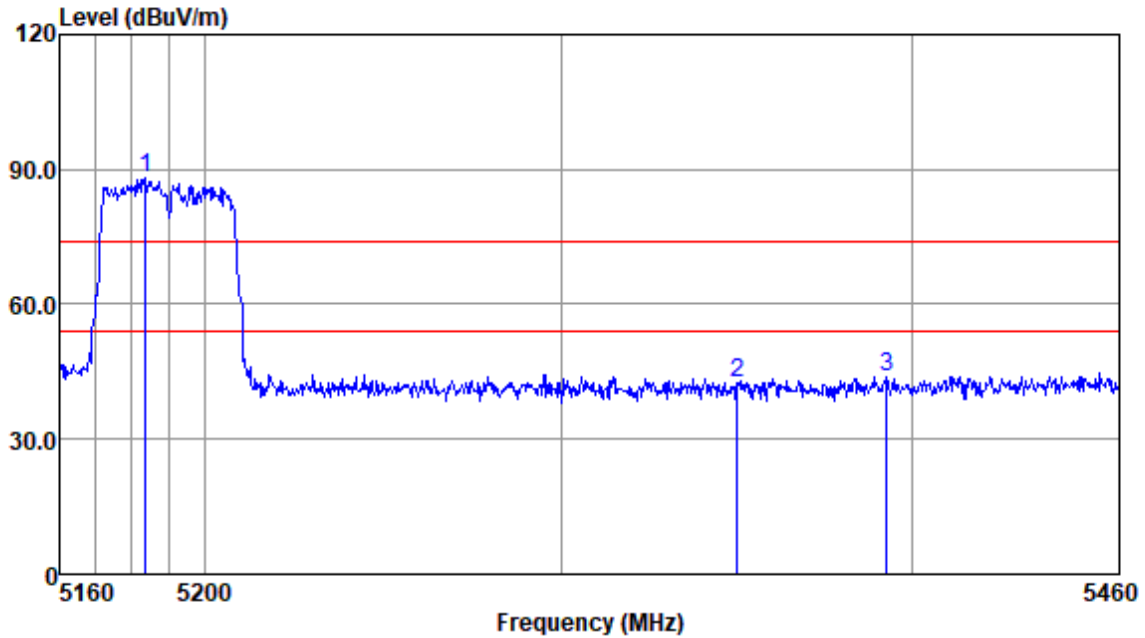
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5201.28	88.24	33.91	5.65	36.89	90.91	74.00	16.91	Peak
5350.00	41.63	34.19	5.60	36.94	44.48	74.00	-29.52	Peak
5352.76	42.43	34.19	5.60	36.94	45.28	74.00	-28.72	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



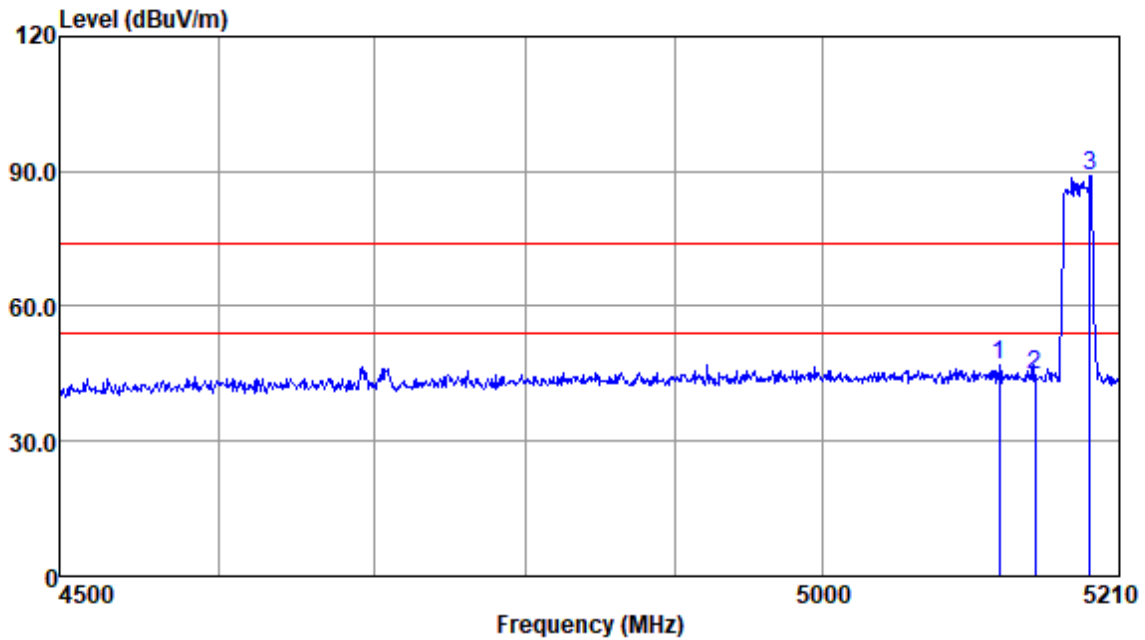
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5183.67	85.57	33.87	5.65	36.89	88.20	74.00	14.20	Peak
5350.00	39.54	34.19	5.60	36.94	42.39	74.00	-31.61	Peak
5392.84	40.75	34.34	5.70	36.95	43.84	74.00	-30.16	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



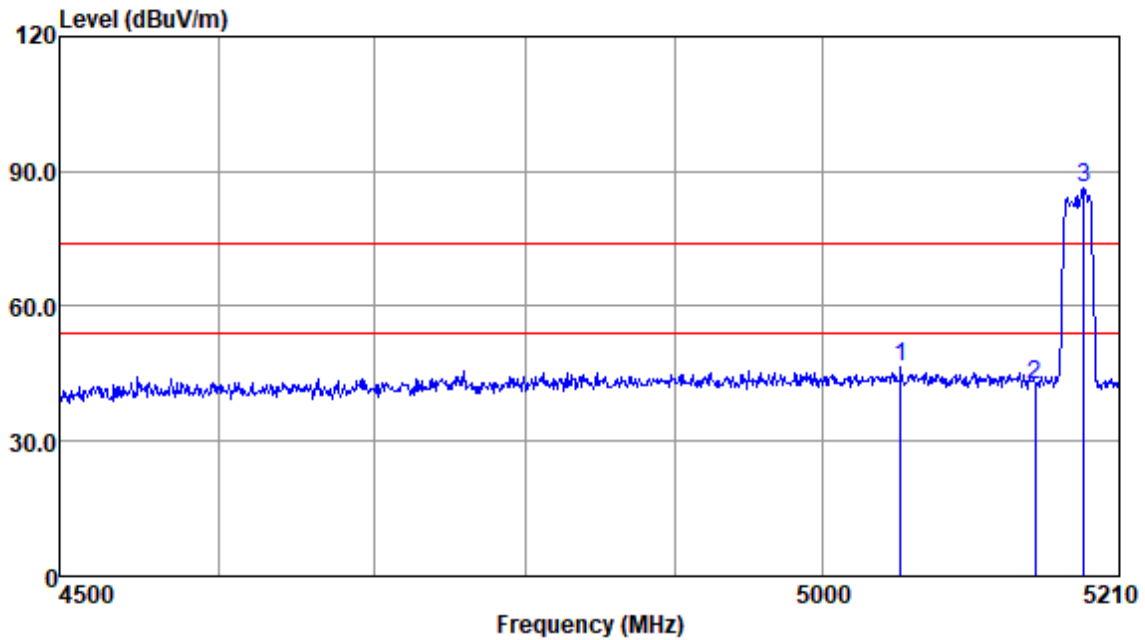
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5124.46	44.49	33.71	5.55	36.87	46.88	74.00	-27.12	Peak
5150.00	42.11	33.78	5.54	36.88	44.55	74.00	-29.45	Peak
5188.67	86.53	33.91	5.65	36.89	89.20	74.00	15.20	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



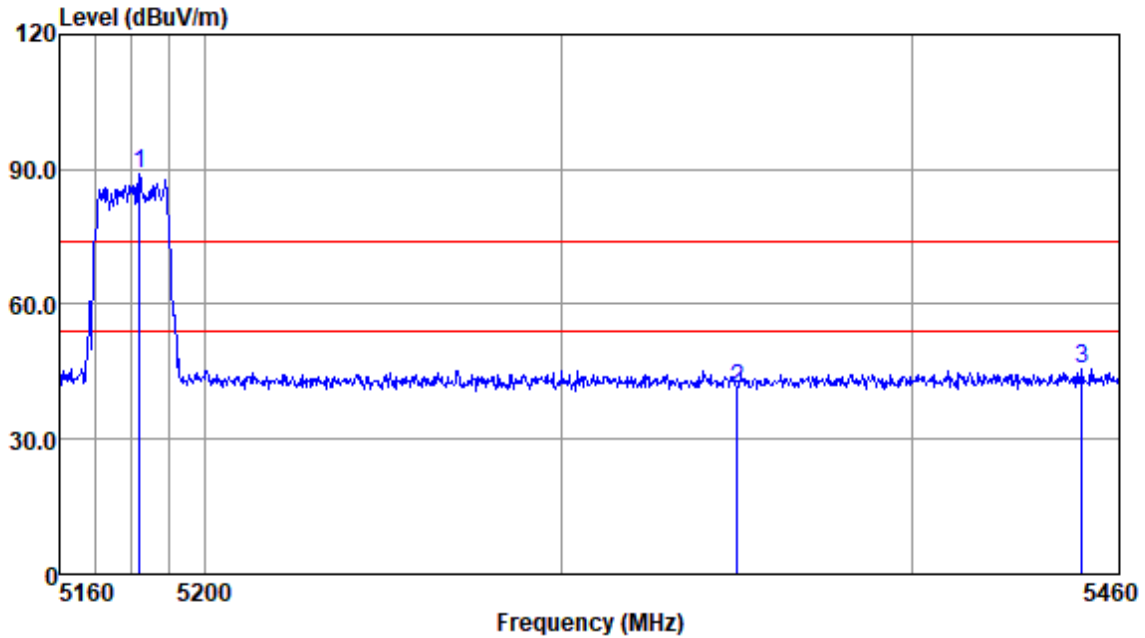
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5055.11	43.81	33.68	5.72	36.86	46.35	74.00	-27.65	Peak
5150.00	40.19	33.78	5.54	36.88	42.63	74.00	-31.37	Peak
5184.87	83.77	33.87	5.65	36.89	86.40	74.00	12.40	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



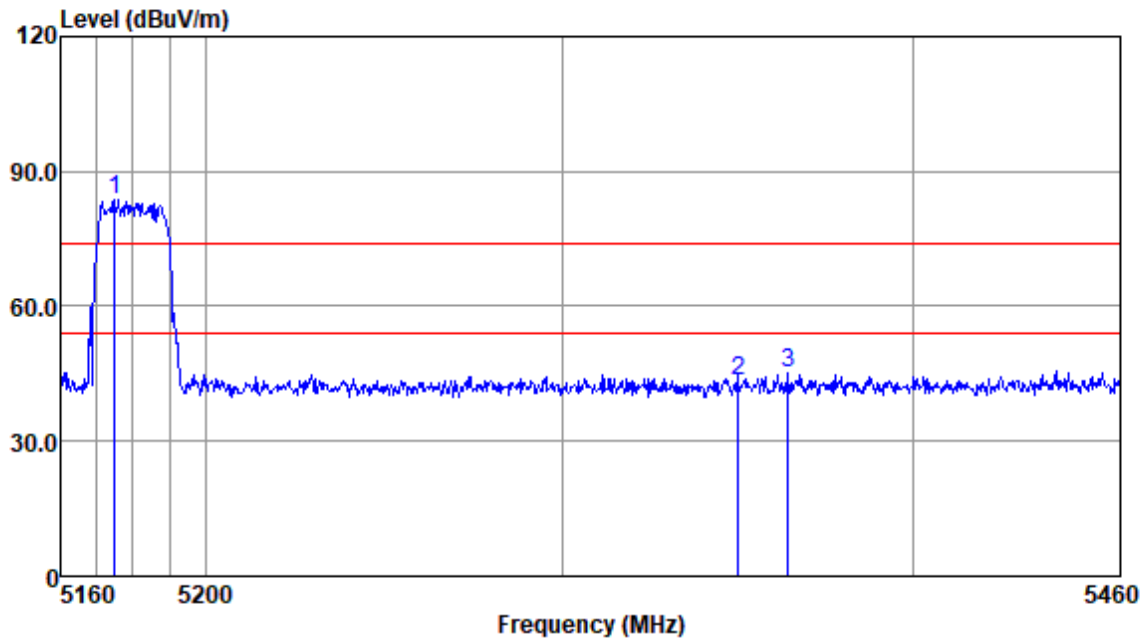
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5182.21	86.30	33.87	5.65	36.89	88.93	74.00	14.93	Peak
5350.00	38.48	34.19	5.60	36.94	41.33	74.00	-32.67	Peak
5449.21	42.49	34.44	5.75	36.97	45.71	74.00	-28.29	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



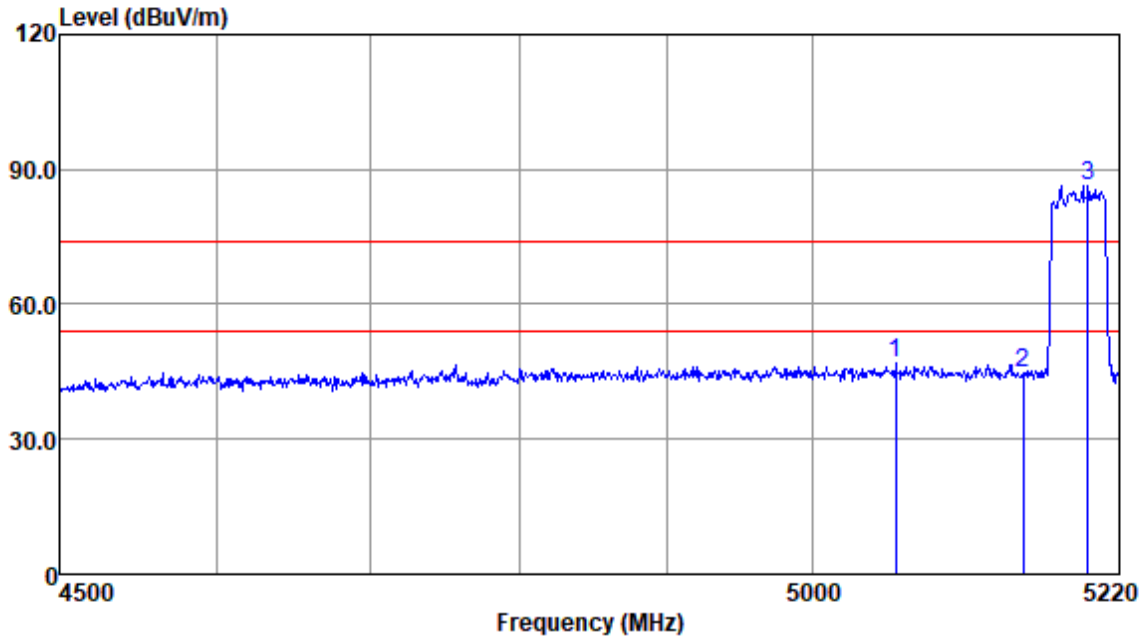
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5174.89	80.97	33.87	5.65	36.89	83.60	74.00	9.60	Peak
5350.00	40.34	34.19	5.60	36.94	43.19	74.00	-30.81	Peak
5364.27	42.10	34.24	5.56	36.94	44.96	74.00	-29.04	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



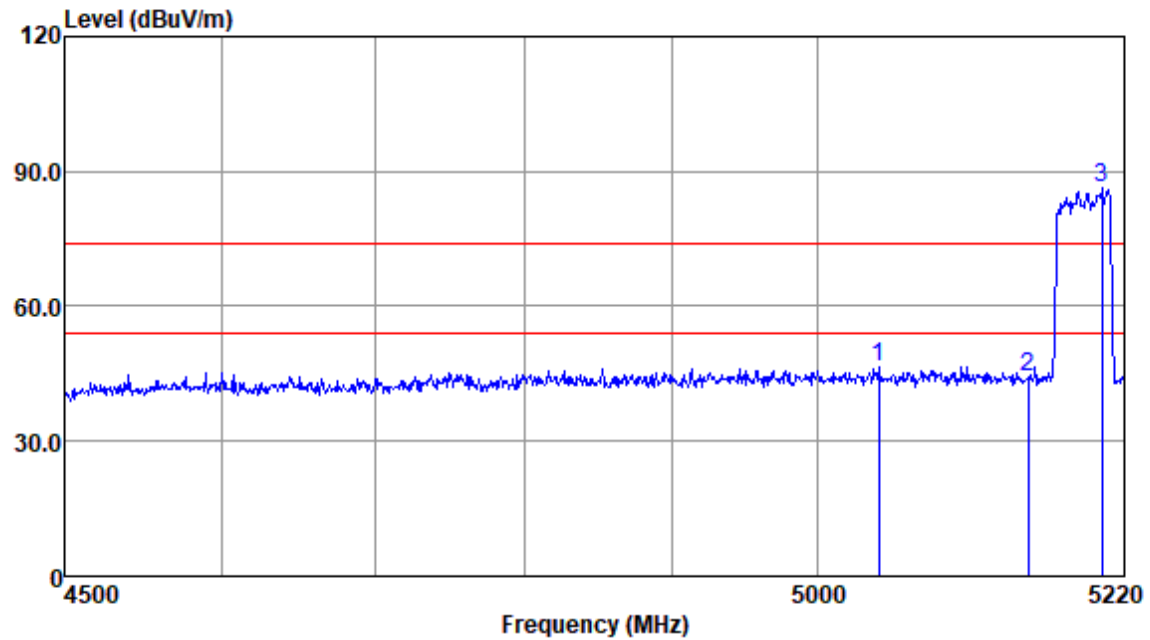
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5059.06	44.43	33.68	5.72	36.86	46.97	74.00	-27.03	Peak
5150.00	42.27	33.78	5.54	36.88	44.71	74.00	-29.29	Peak
5196.81	83.72	33.91	5.65	36.89	86.39	74.00	12.39	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



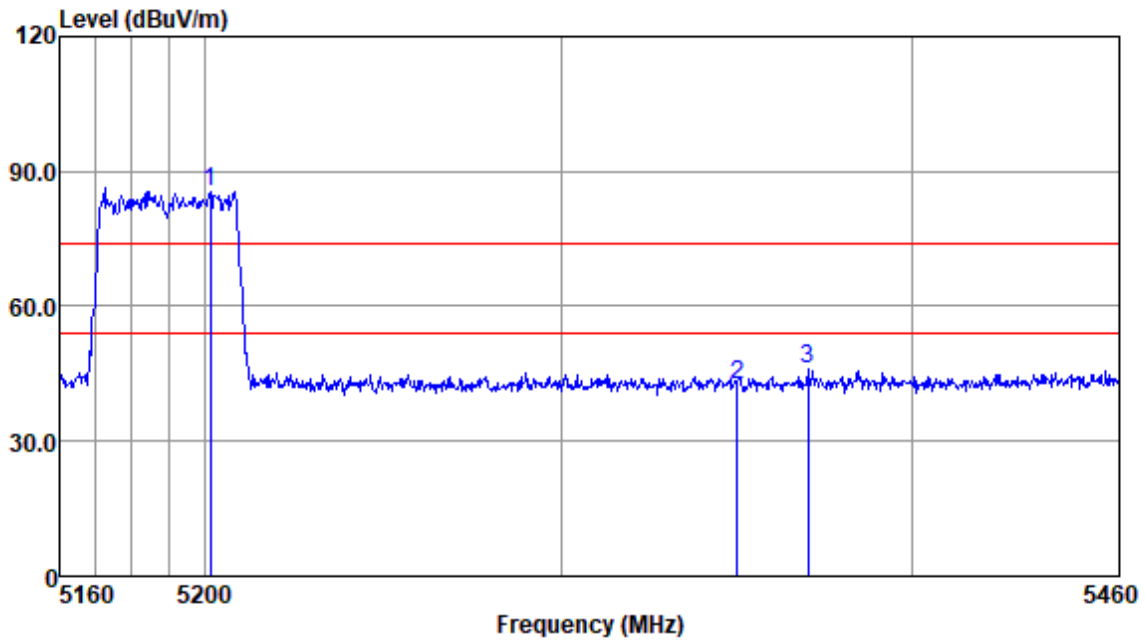
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5043.32	44.17	33.69	5.59	36.85	46.60	74.00	-27.40	Peak
5150.00	41.77	33.78	5.54	36.88	44.21	74.00	-29.79	Peak
5203.76	83.74	33.94	5.78	36.90	86.56	74.00	12.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



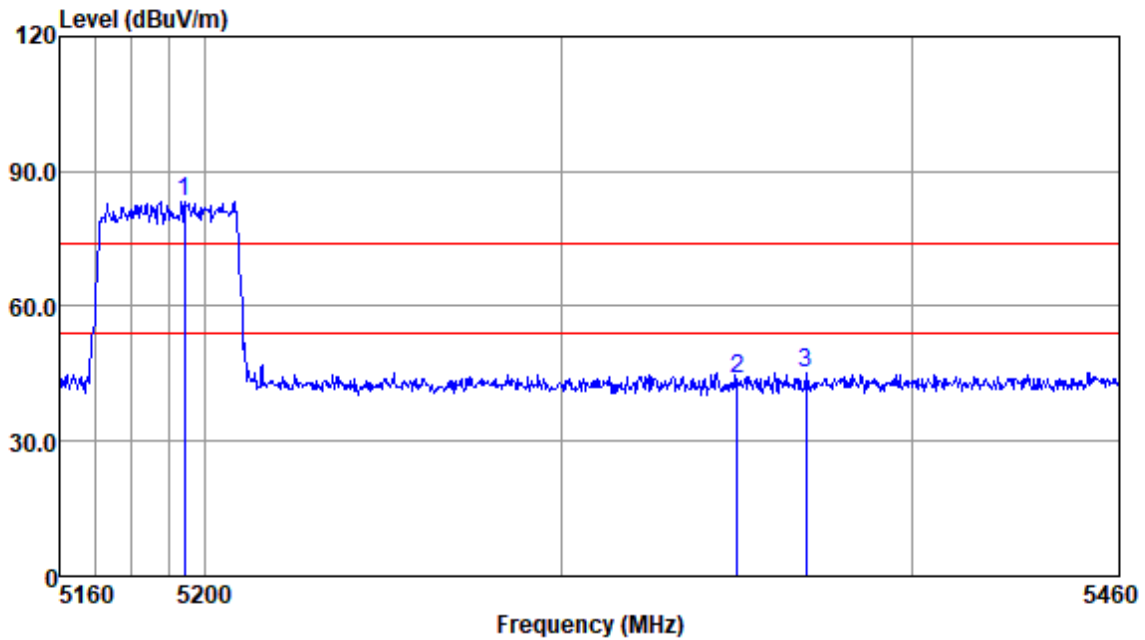
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5201.57	82.76	33.94	5.78	36.90	85.58	74.00	11.58	Peak
5350.00	39.53	34.19	5.60	36.94	42.38	74.00	-31.62	Peak
5370.03	43.13	34.29	5.63	36.95	46.10	74.00	-27.90	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



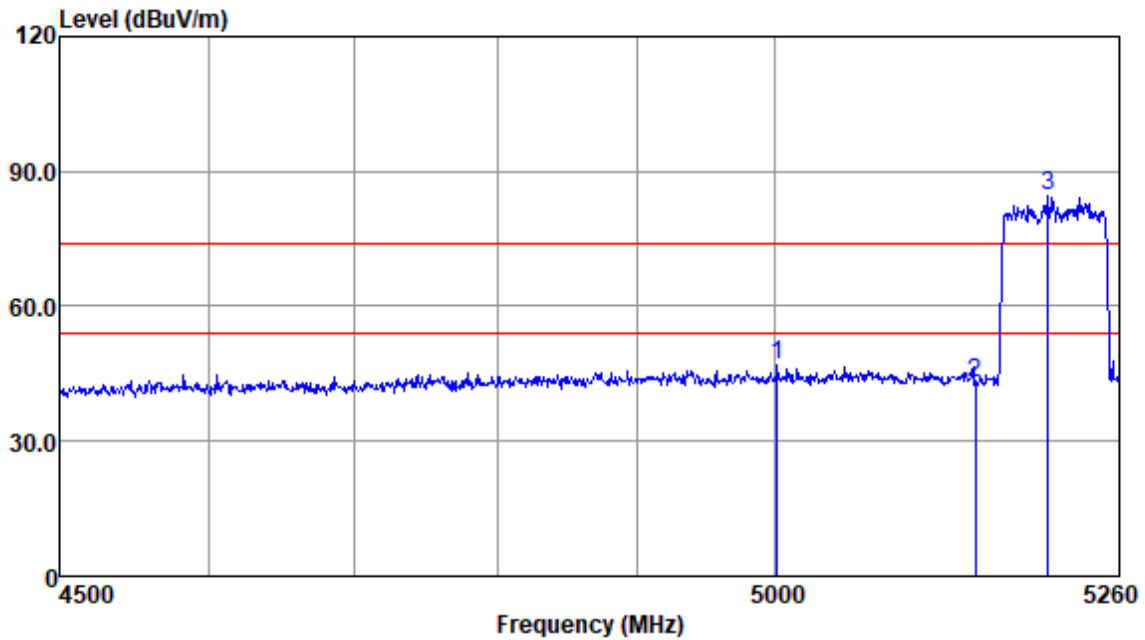
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5194.52	80.64	33.91	5.65	36.89	83.31	74.00	9.31	Peak
5350.00	40.90	34.19	5.60	36.94	43.75	74.00	-30.25	Peak
5369.43	42.48	34.24	5.56	36.94	45.34	74.00	-28.66	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



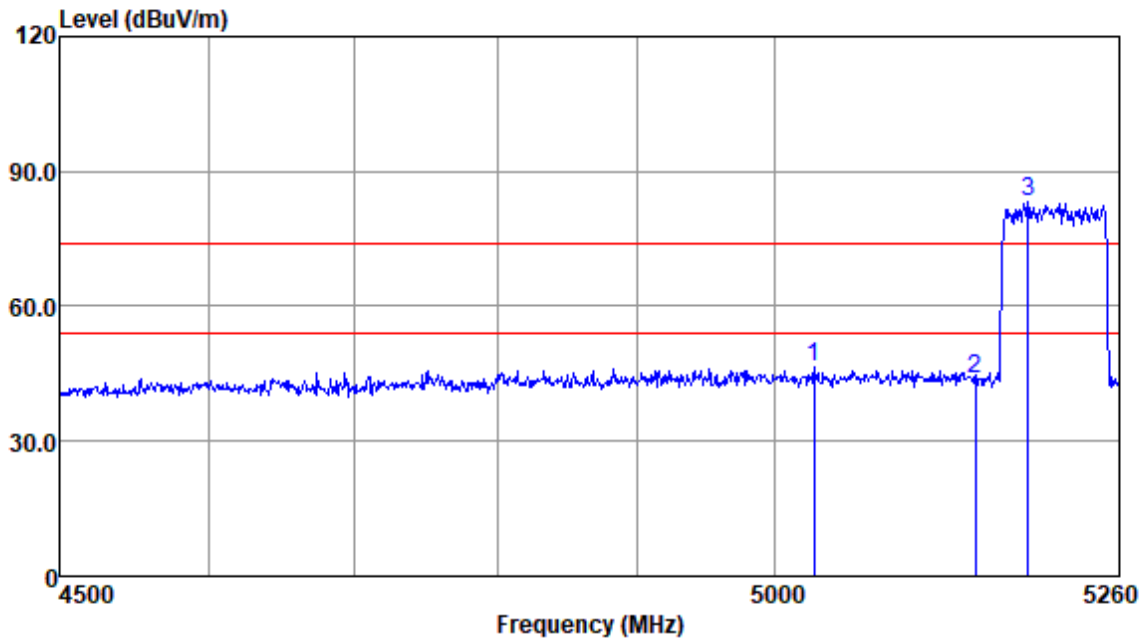
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5001.44	44.39	33.69	5.64	36.84	46.88	74.00	-27.12	Peak
5150.00	40.55	33.78	5.54	36.88	42.99	74.00	-31.01	Peak
5205.29	81.67	33.94	5.78	36.90	84.49	74.00	10.49	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



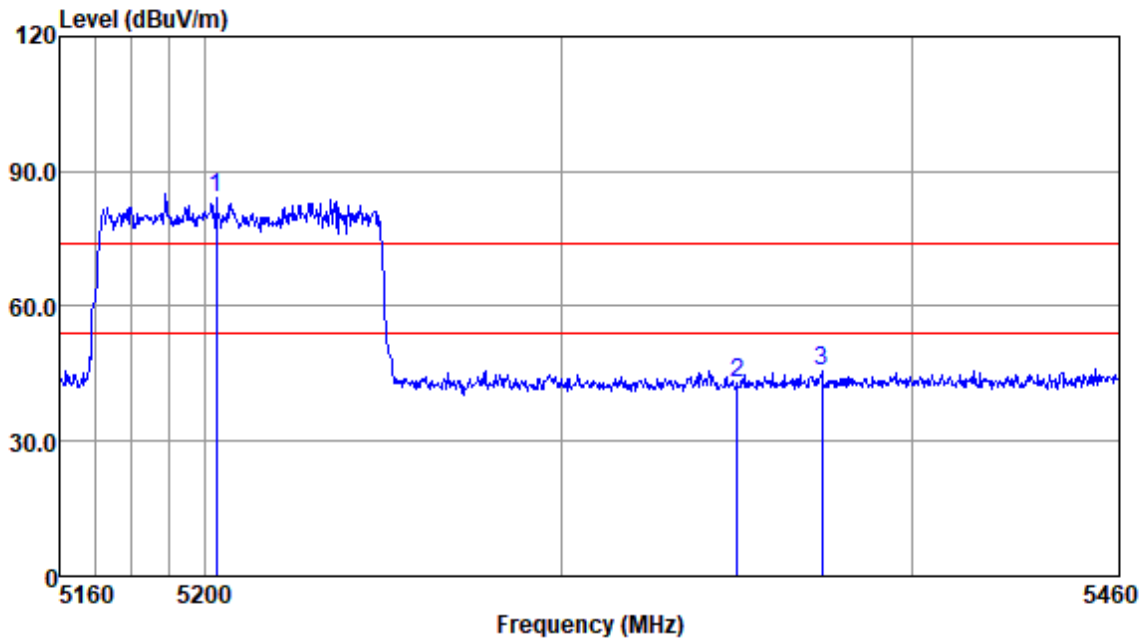
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5028.83	43.94	33.69	5.61	36.85	46.39	74.00	-27.61	Peak
5150.00	41.33	33.78	5.54	36.88	43.77	74.00	-30.23	Peak
5189.88	80.37	33.91	5.65	36.89	83.04	74.00	9.04	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



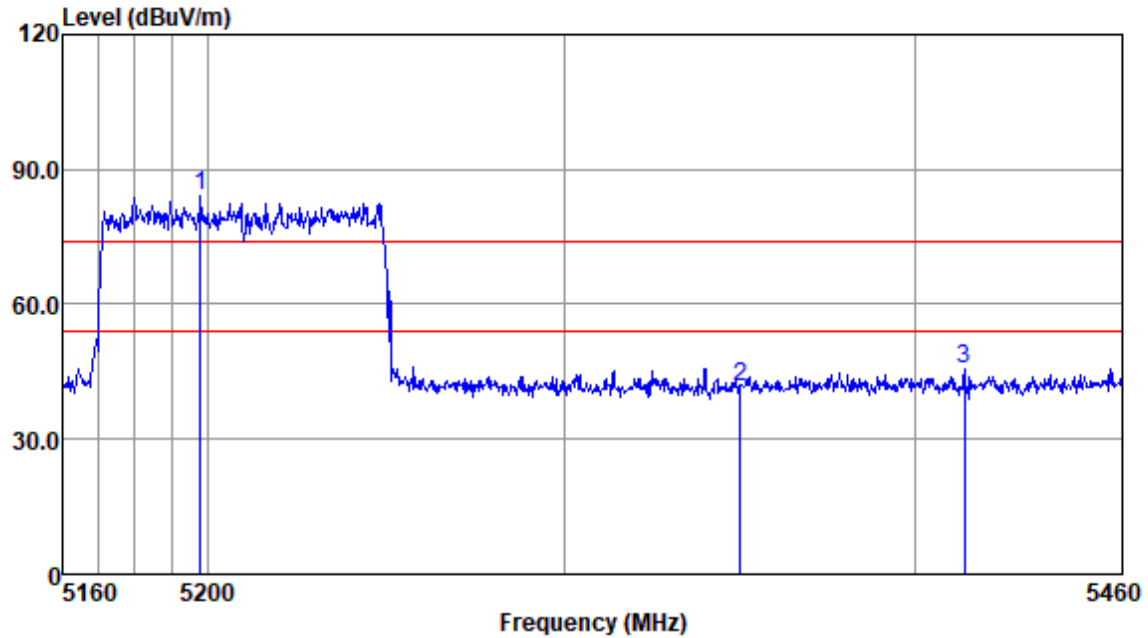
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5203.34	81.18	33.94	5.78	36.90	84.00	74.00	10.00	Peak
5350.00	40.32	34.19	5.60	36.94	43.17	74.00	-30.83	Peak
5373.98	42.85	34.29	5.63	36.95	45.82	74.00	-28.18	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



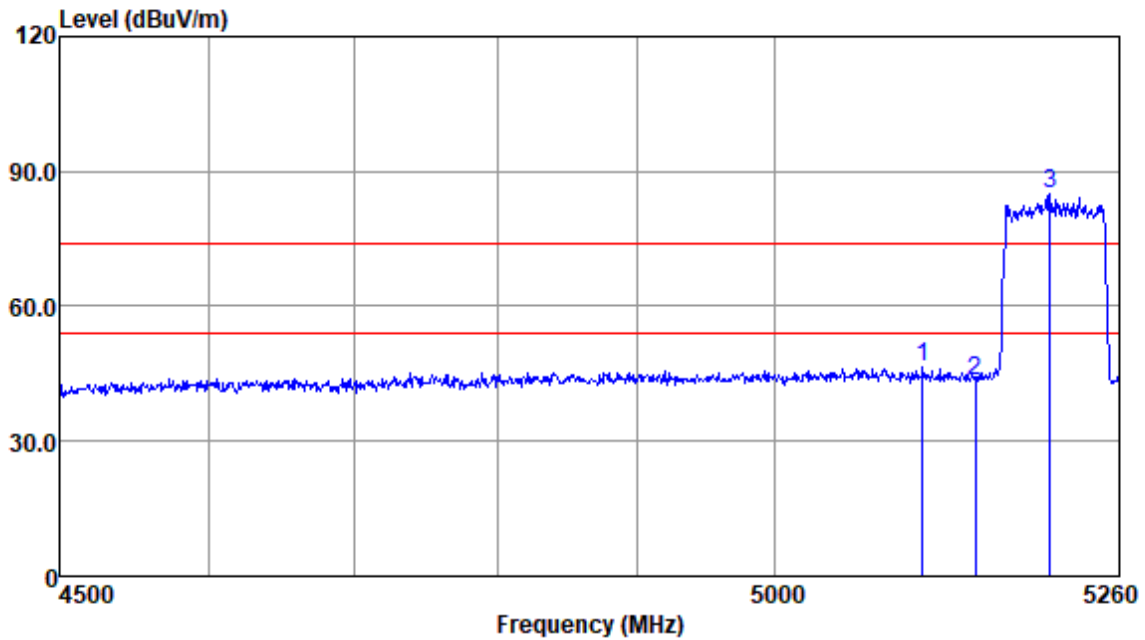
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5198.05	81.47	33.91	5.65	36.89	84.14	74.00	10.14	Peak
5350.00	38.90	34.19	5.60	36.94	41.75	74.00	-32.25	Peak
5414.22	42.52	34.36	5.75	36.95	45.68	74.00	-28.32	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



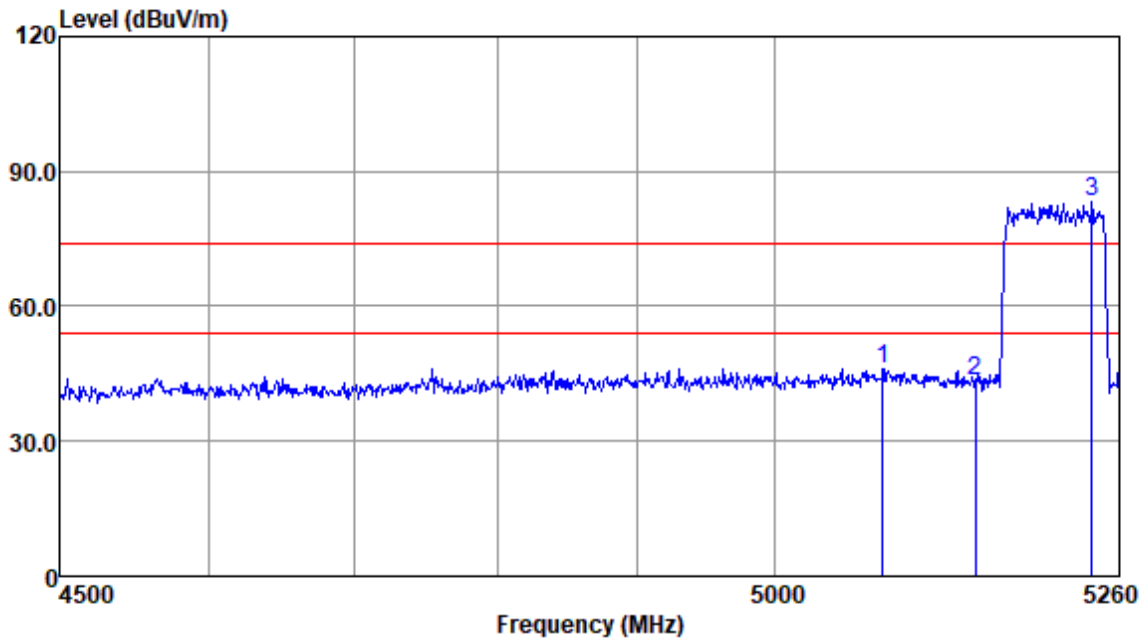
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5109.52	44.28	33.67	5.53	36.87	46.61	74.00	-27.39	Peak
5150.00	40.87	33.78	5.54	36.88	43.31	74.00	-30.69	Peak
5206.92	82.03	33.94	5.78	36.90	84.85	74.00	10.85	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



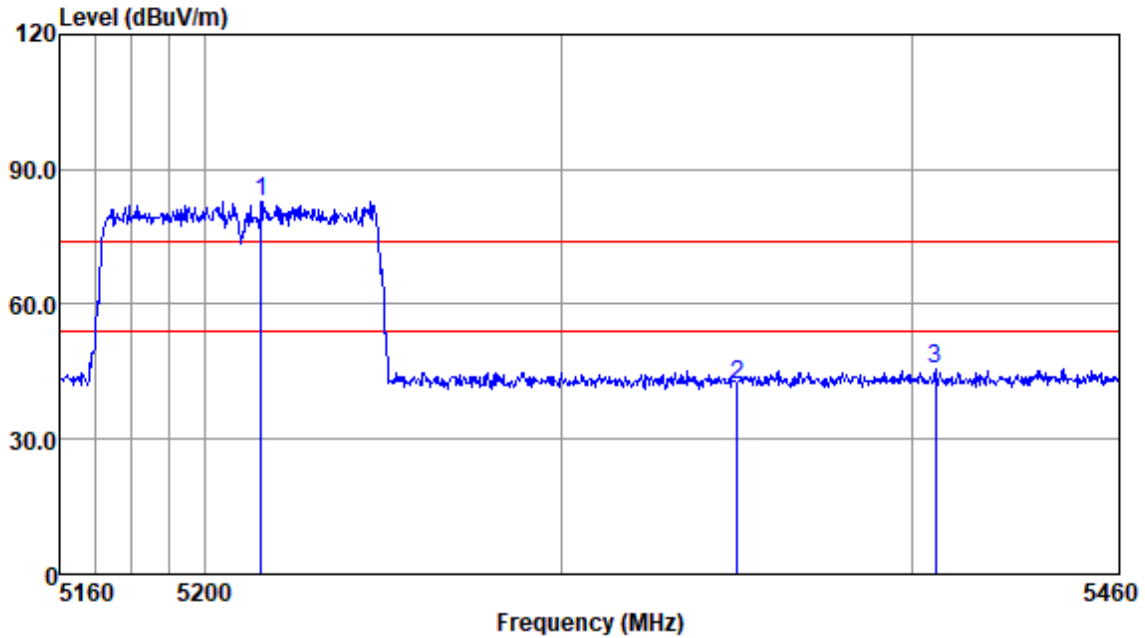
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5080.10	43.76	33.68	5.64	36.86	46.22	74.00	-27.78	Peak
5150.00	41.12	33.78	5.54	36.88	43.56	74.00	-30.44	Peak
5238.70	80.51	34.01	5.62	36.91	83.23	74.00	9.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



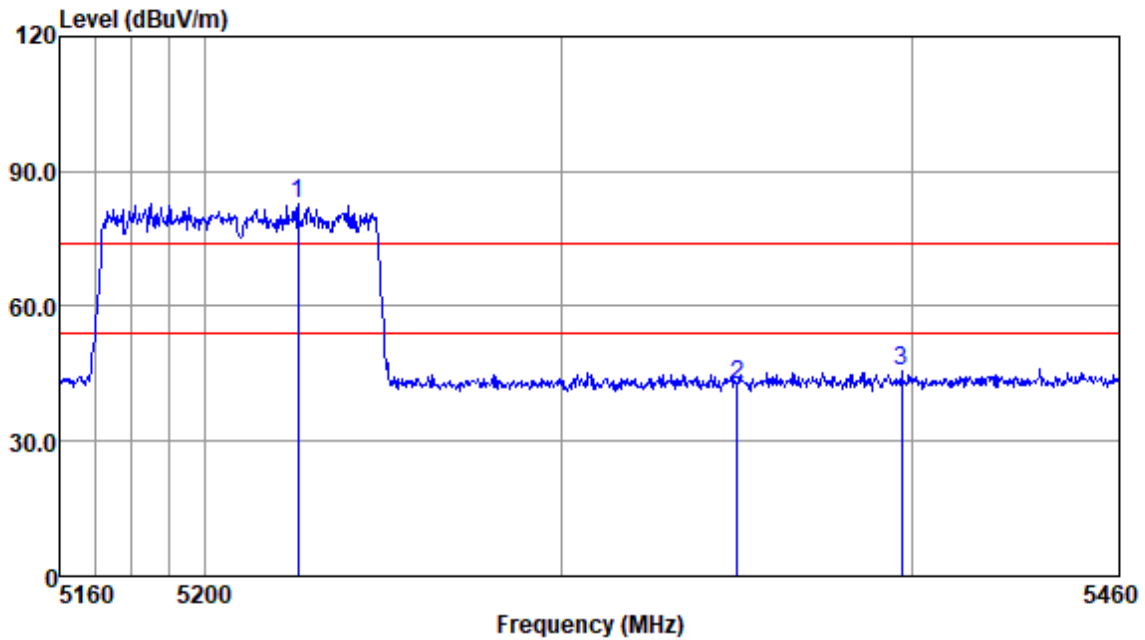
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5215.70	80.12	33.94	5.78	36.90	82.94	74.00	8.94	Peak
5350.00	39.09	34.19	5.60	36.94	41.94	74.00	-32.06	Peak
5406.88	42.27	34.36	5.75	36.95	45.43	74.00	-28.57	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



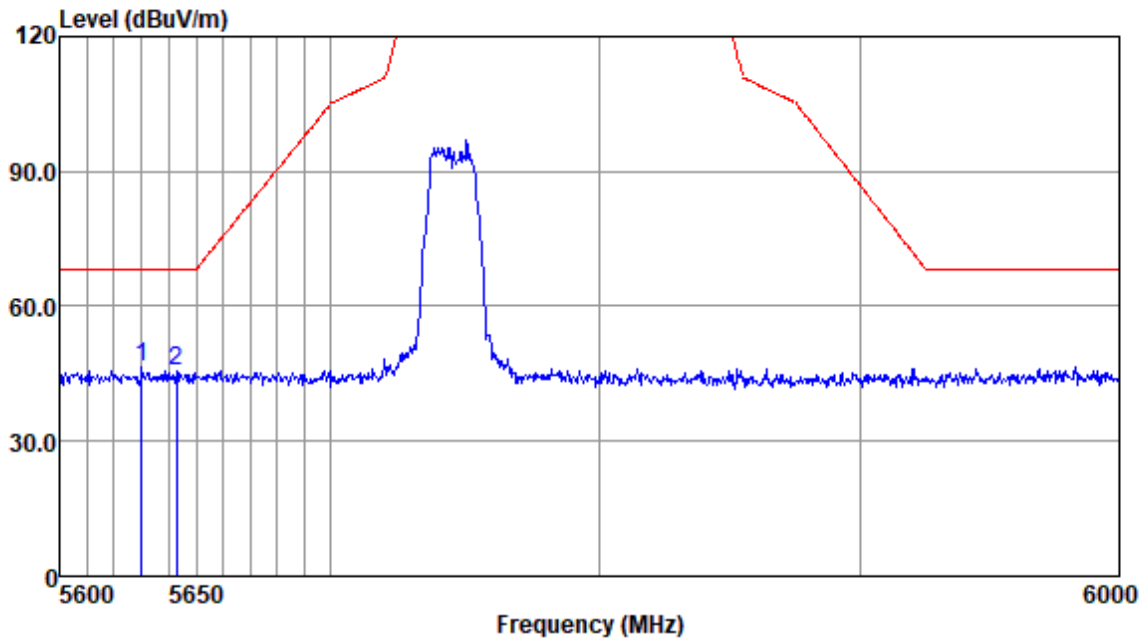
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5226.03	80.00	33.97	5.70	36.90	82.77	74.00	8.77	Peak
5350.00	39.57	34.19	5.60	36.94	42.42	74.00	-31.58	Peak
5397.11	42.40	34.34	5.70	36.95	45.49	74.00	-28.51	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



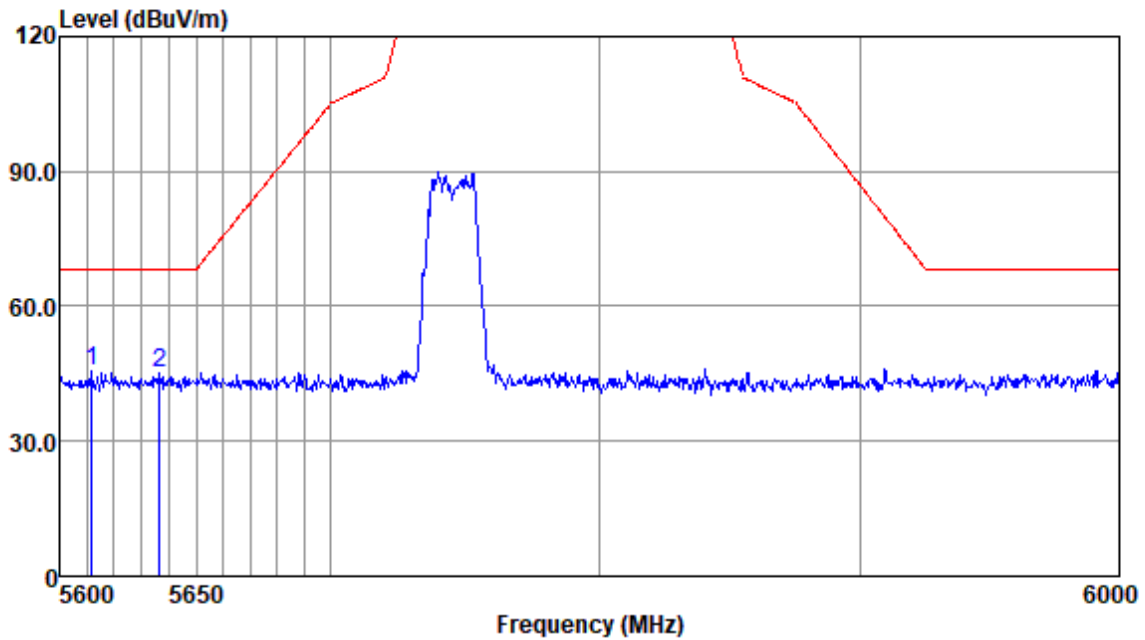
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5630.22	43.08	34.53	5.83	37.00	46.44	68.20	-21.76	Peak
5642.66	42.12	34.53	5.87	37.00	45.52	68.20	-22.68	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



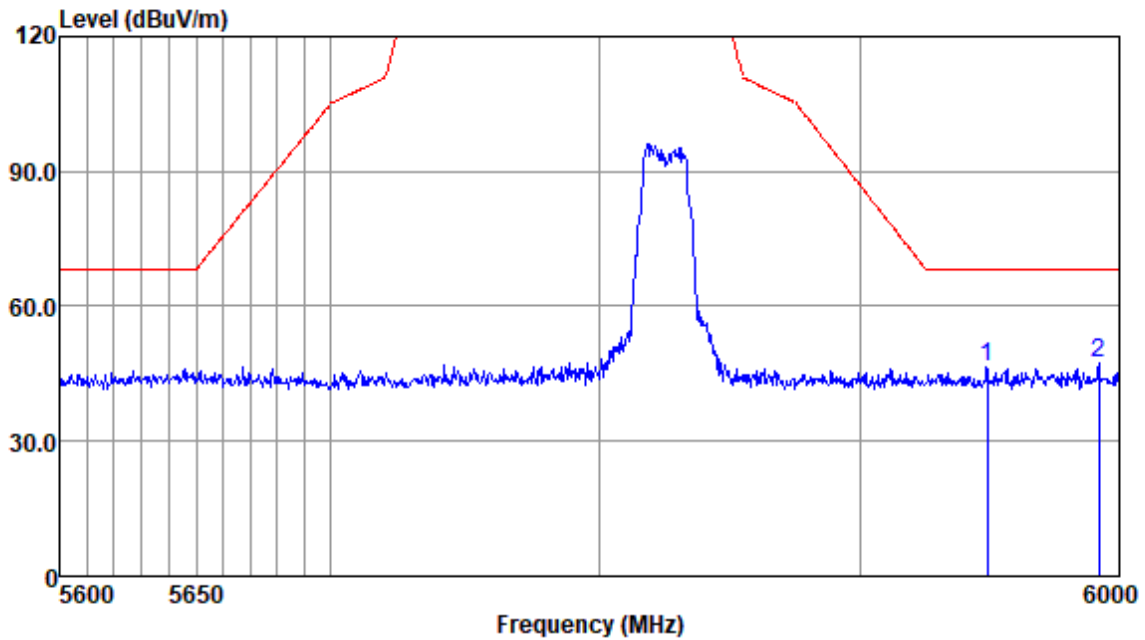
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5611.99	42.11	34.52	5.79	37.00	45.42	68.20	-22.78	Peak
5636.44	41.98	34.53	5.83	37.00	45.34	68.20	-22.86	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



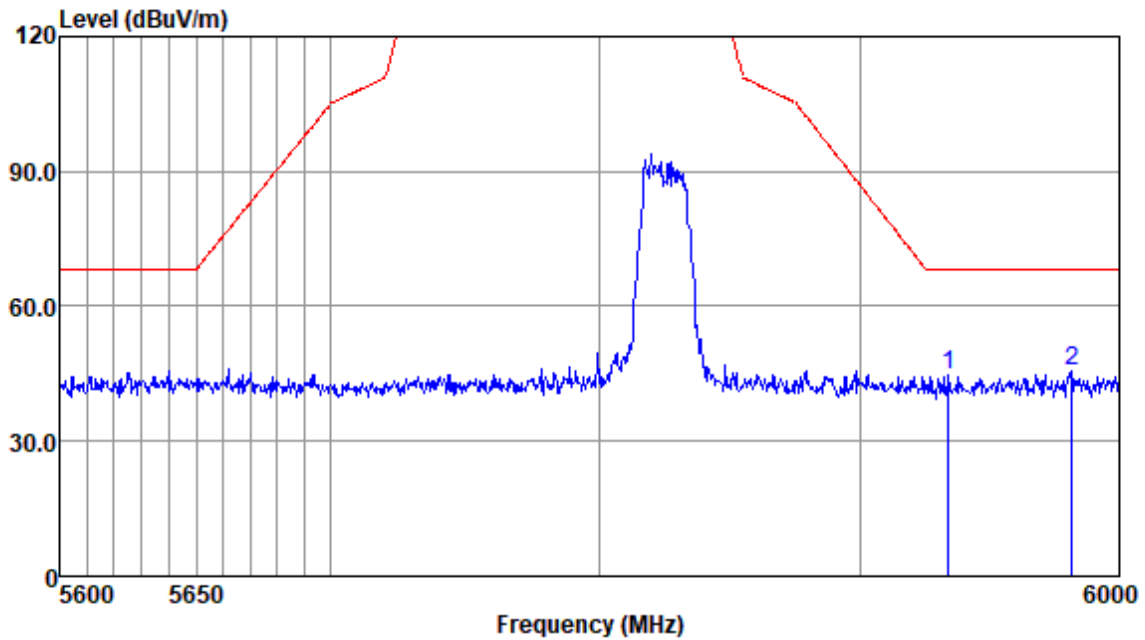
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5948.48	42.90	34.85	5.71	37.05	46.41	68.20	-21.79	Peak
5992.14	43.46	34.94	5.88	37.06	47.22	68.20	-20.98	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



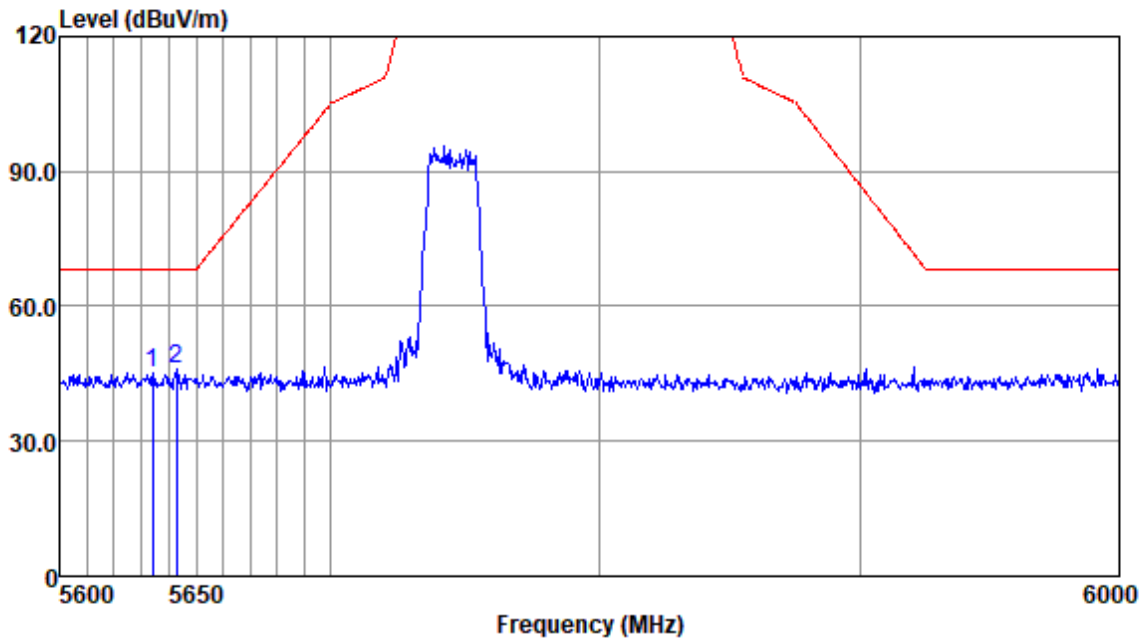
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5933.72	40.88	34.81	5.91	37.05	44.55	68.20	-23.65	Peak
5981.40	41.77	34.94	5.88	37.06	45.53	68.20	-22.67	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



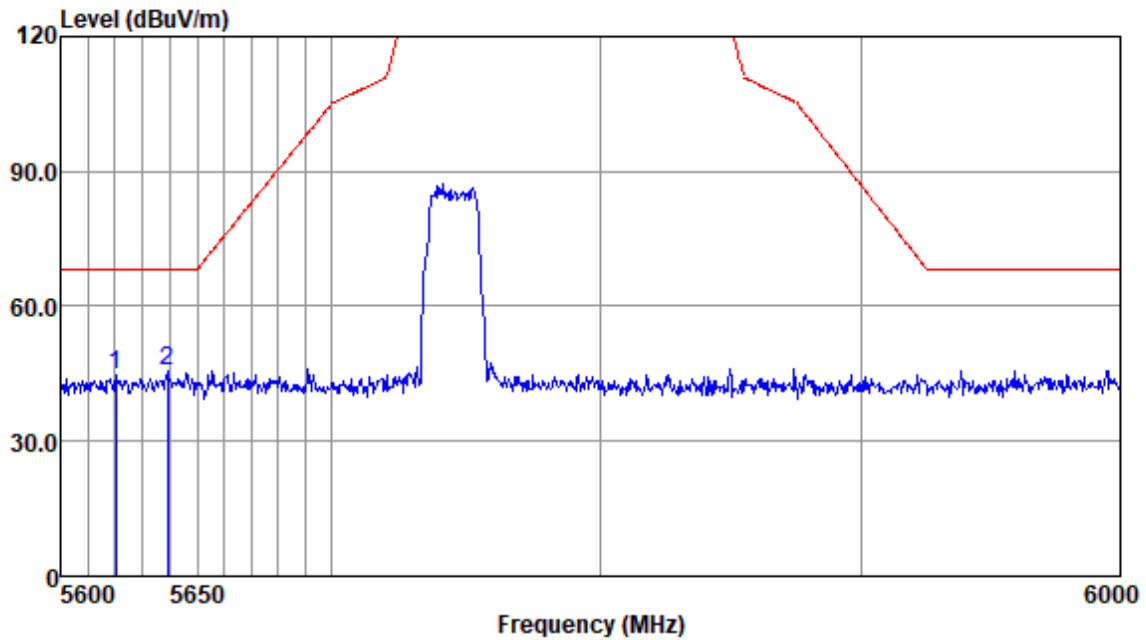
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5634.10	41.70	34.53	5.83	37.00	45.06	68.20	-23.14	Peak
5642.66	42.85	34.53	5.87	37.00	46.25	68.20	-21.95	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



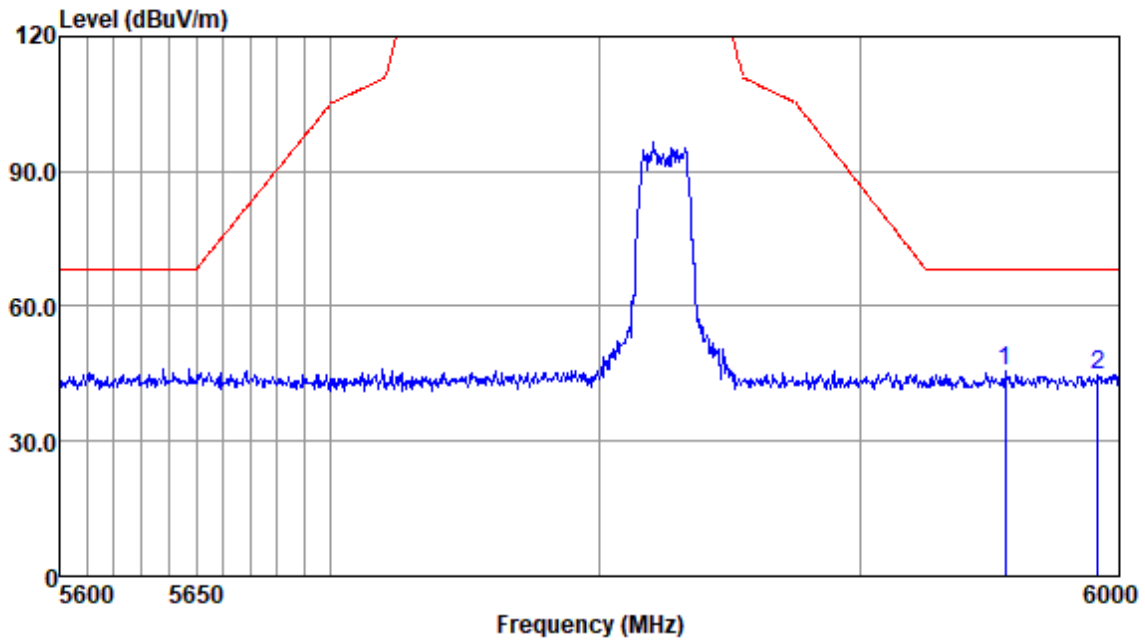
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5620.13	41.30	34.52	5.79	37.00	44.61	68.20	-23.59	Peak
5639.16	42.28	34.53	5.83	37.00	45.64	68.20	-22.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



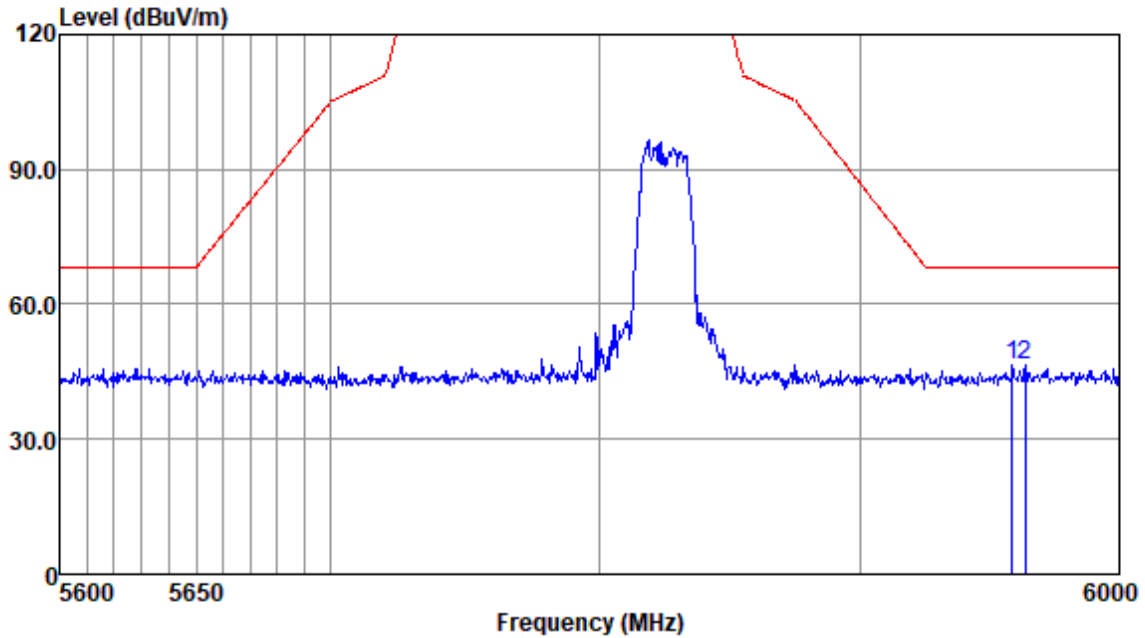
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5955.46	42.09	34.85	5.71	37.05	45.60	68.20	-22.60	Peak
5991.73	40.76	34.94	5.88	37.06	44.52	68.20	-23.68	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



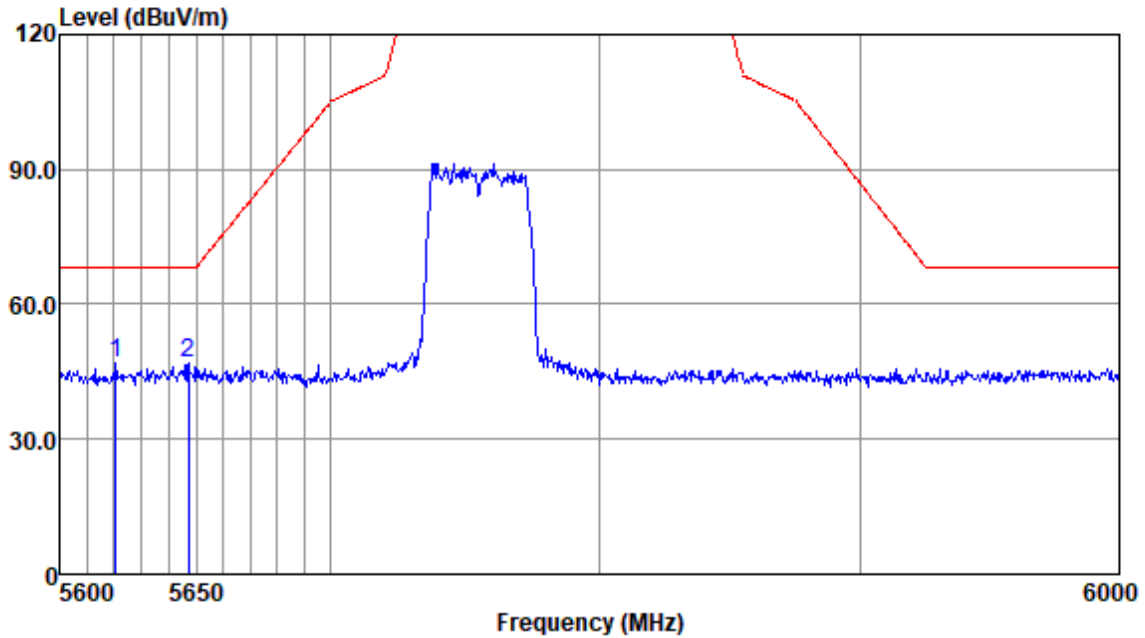
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5958.34	42.99	34.85	5.71	37.05	46.50	68.20	-21.70	Peak
5963.27	42.83	34.90	5.97	37.05	46.65	68.20	-21.55	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



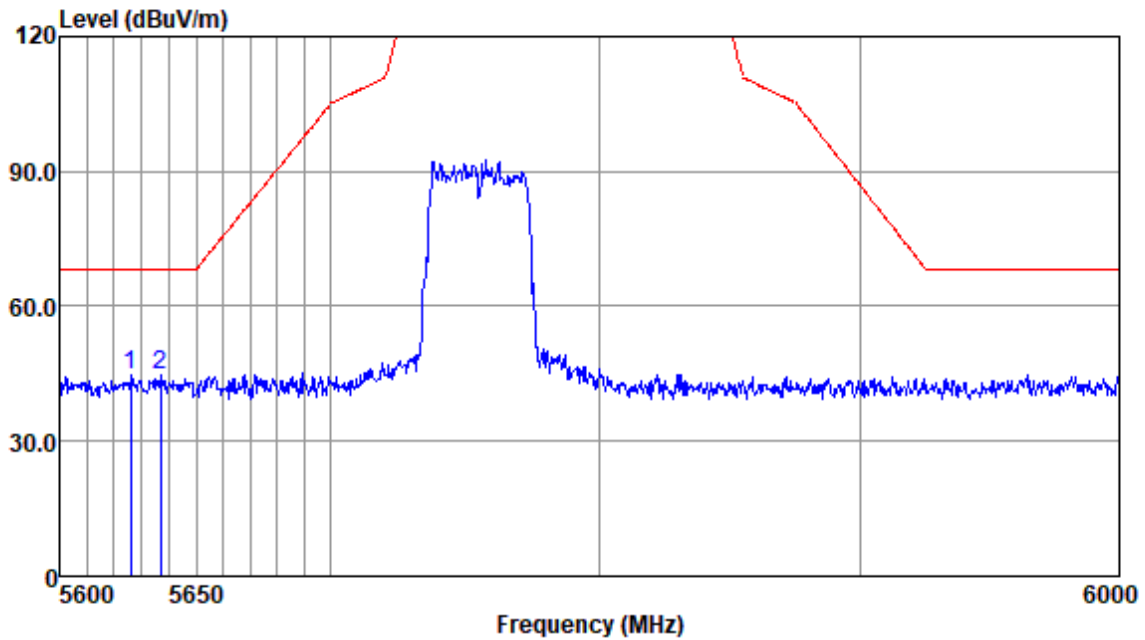
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5620.52	43.83	34.52	5.79	37.00	47.14	68.20	-21.06	Peak
5647.34	43.70	34.53	5.87	37.00	47.10	68.20	-21.10	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



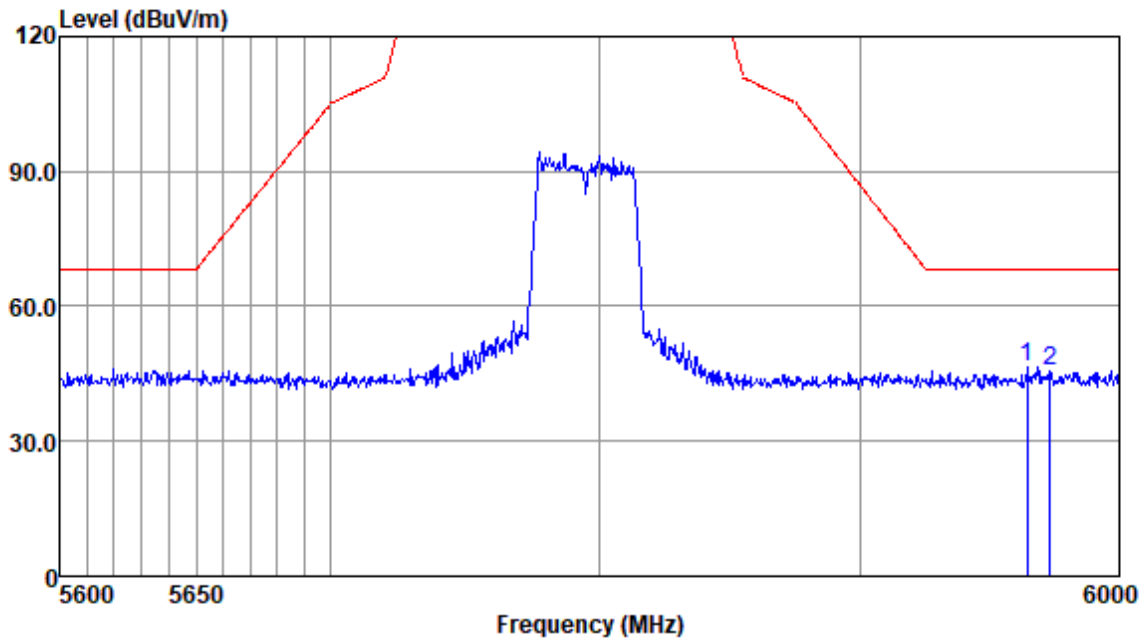
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5625.95	41.17	34.53	5.83	37.00	44.53	68.20	-23.67	Peak
5636.83	41.45	34.53	5.83	37.00	44.81	68.20	-23.39	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



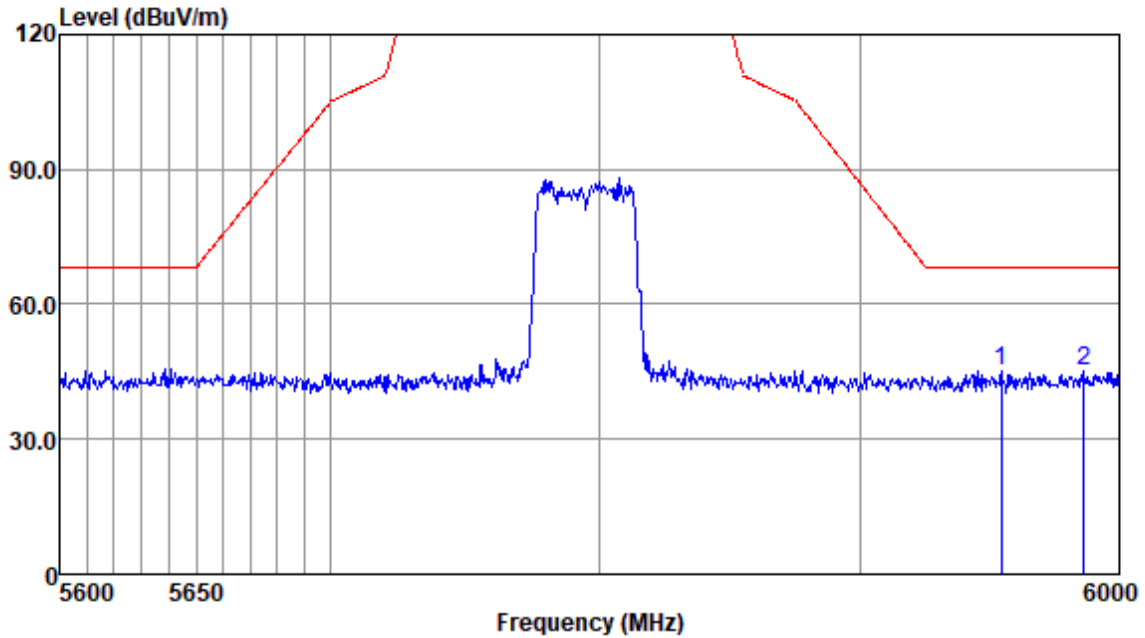
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5964.09	42.59	34.90	5.97	37.05	46.41	68.20	-21.79	Peak
5973.15	41.87	34.90	5.97	37.05	45.69	68.20	-22.51	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



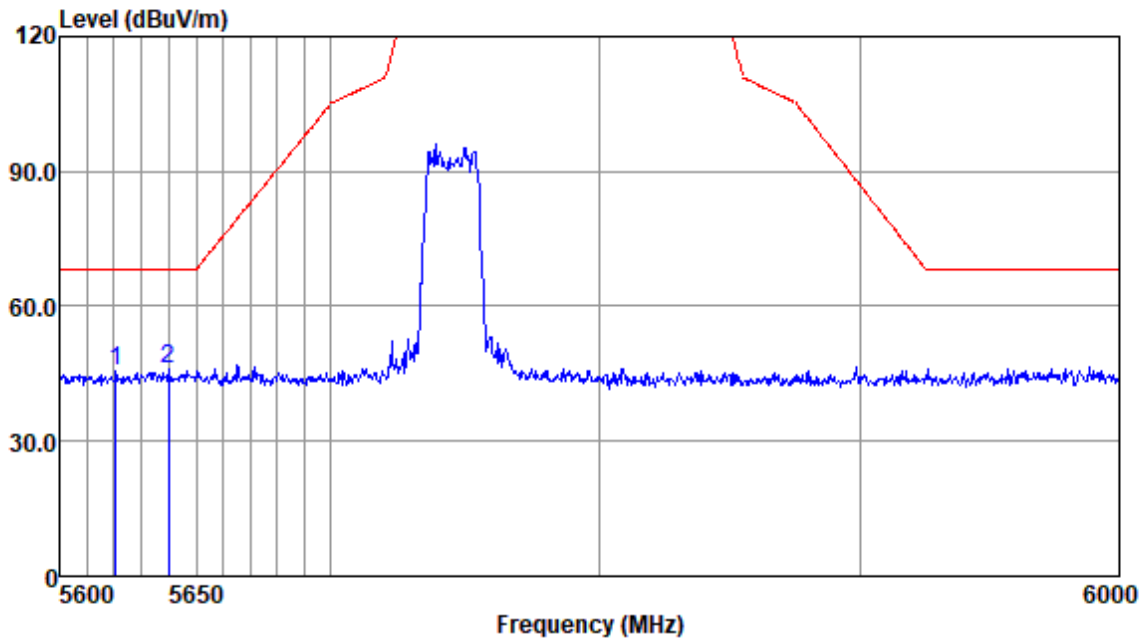
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5954.23	41.59	34.85	5.71	37.05	45.10	68.20	-23.10	Peak
5986.36	41.36	34.94	5.88	37.06	45.12	68.20	-23.08	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



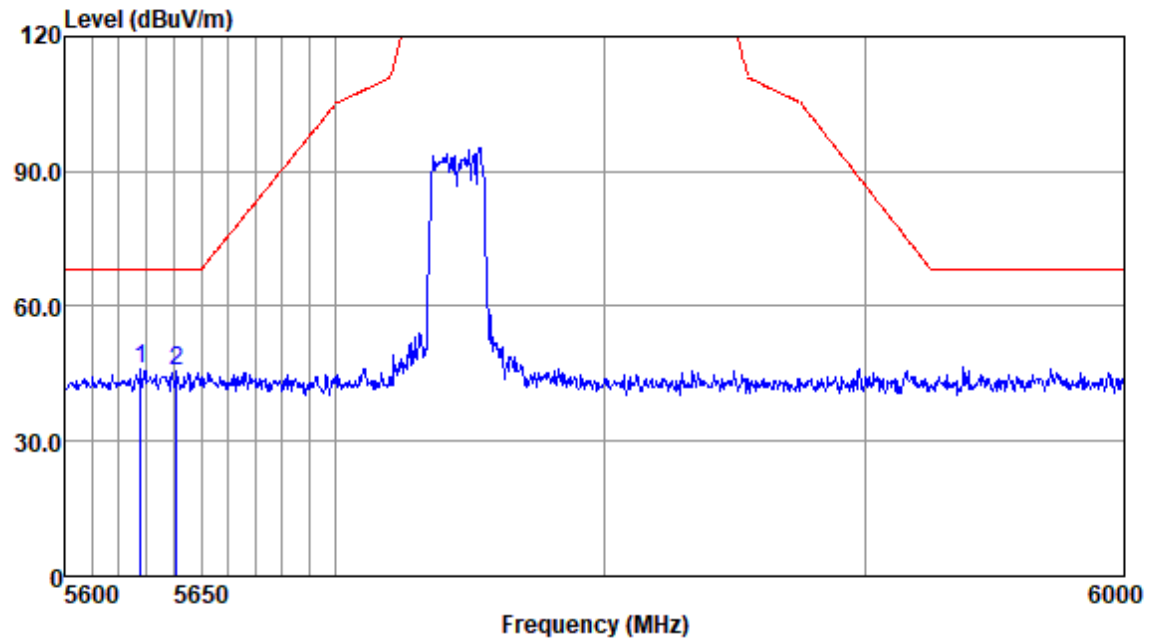
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5620.52	42.21	34.52	5.79	37.00	45.52	68.20	-22.68	Peak
5639.94	42.62	34.53	5.83	37.00	45.98	68.20	-22.22	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



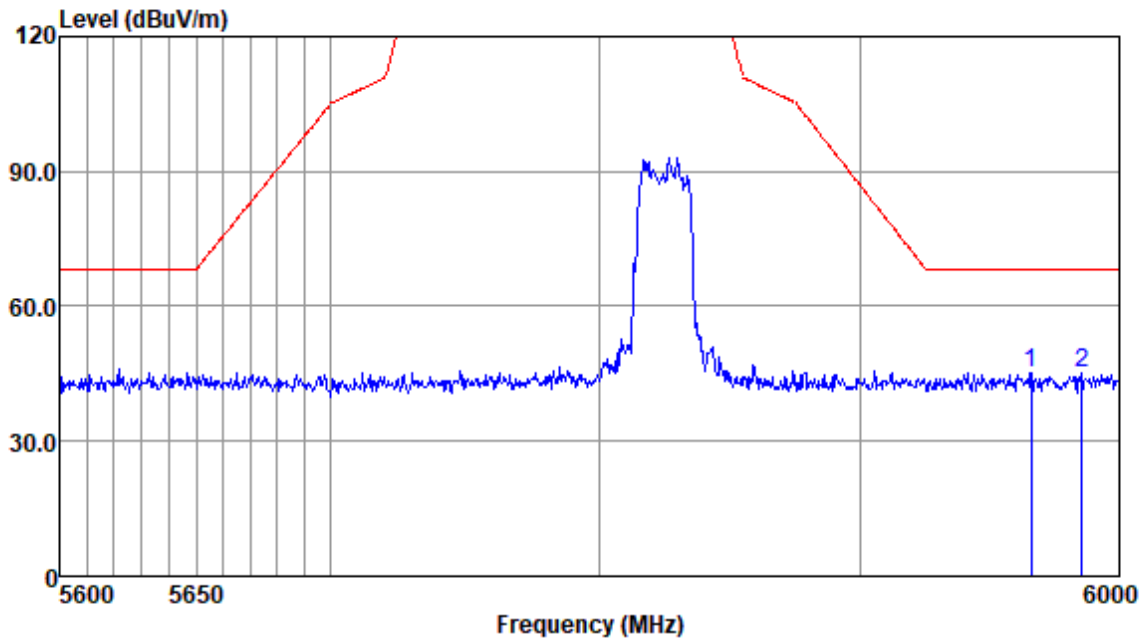
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5627.89	42.52	34.53	5.83	37.00	45.88	68.20	-22.32	Peak
5641.10	42.14	34.53	5.87	37.00	45.54	68.20	-22.66	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



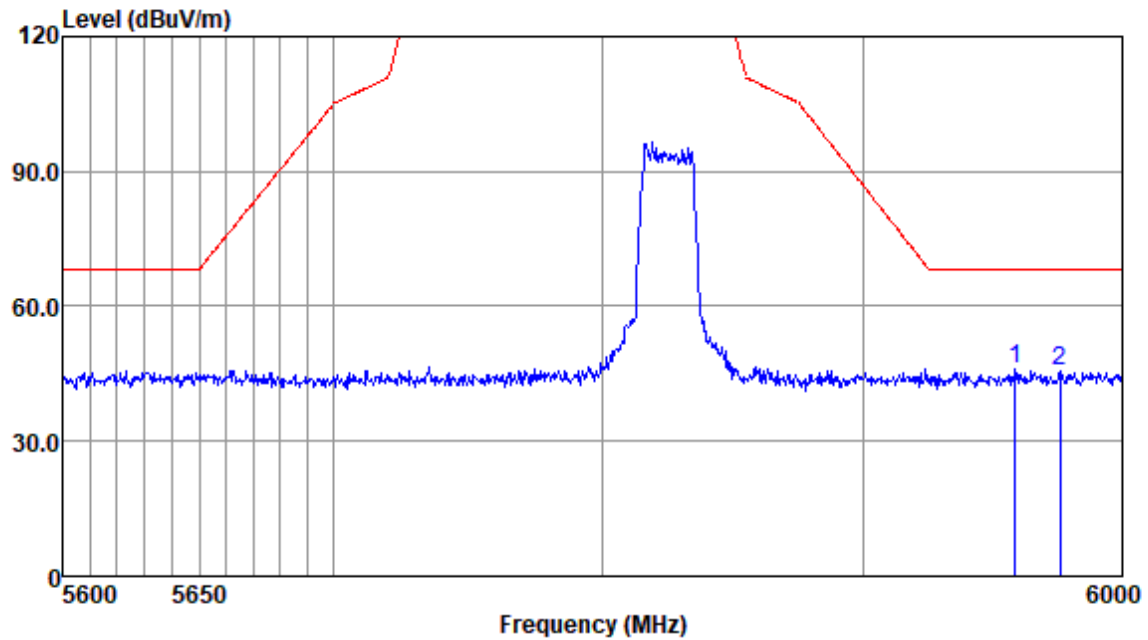
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5965.74	41.41	34.90	5.97	37.05	45.23	68.20	-22.97	Peak
5985.53	41.40	34.94	5.88	37.06	45.16	68.20	-23.04	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



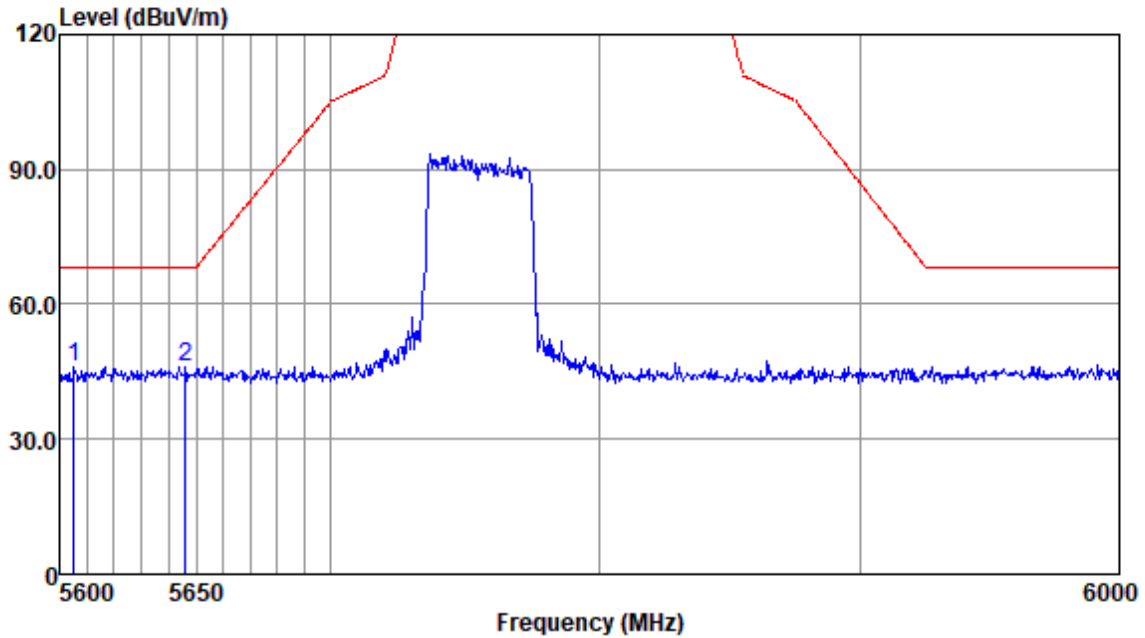
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5958.34	42.57	34.85	5.71	37.05	46.08	68.20	-22.12	Peak
5975.63	41.81	34.90	5.97	37.05	45.63	68.20	-22.57	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



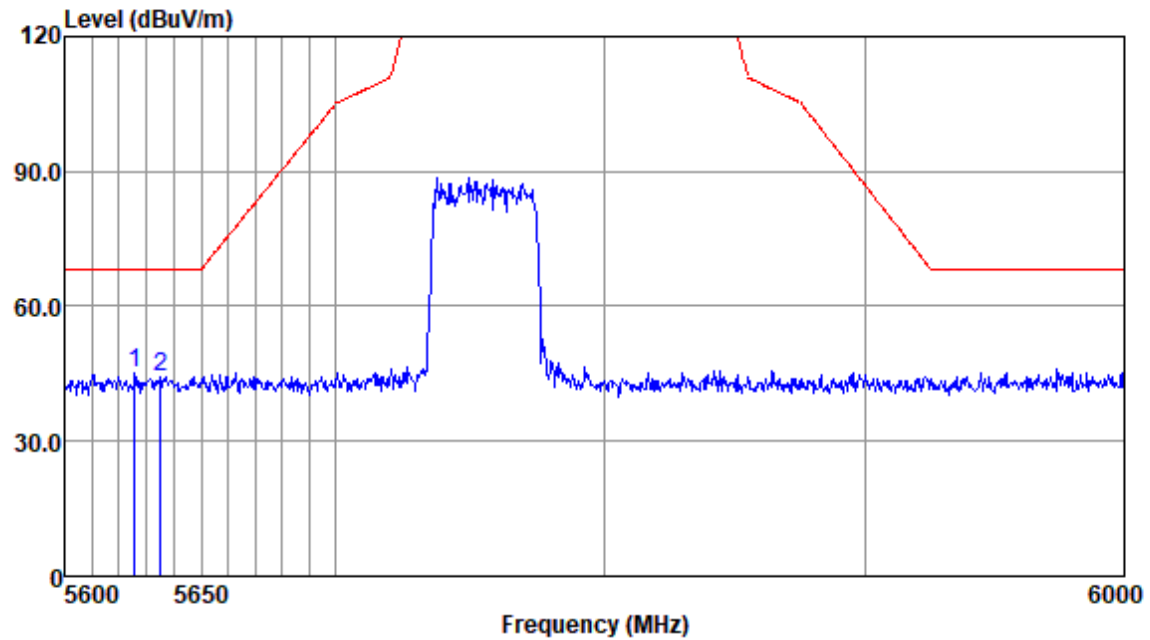
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5605.41	42.72	34.52	5.74	37.00	45.98	68.20	-22.22	Peak
5646.17	42.71	34.53	5.87	37.00	46.11	68.20	-22.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



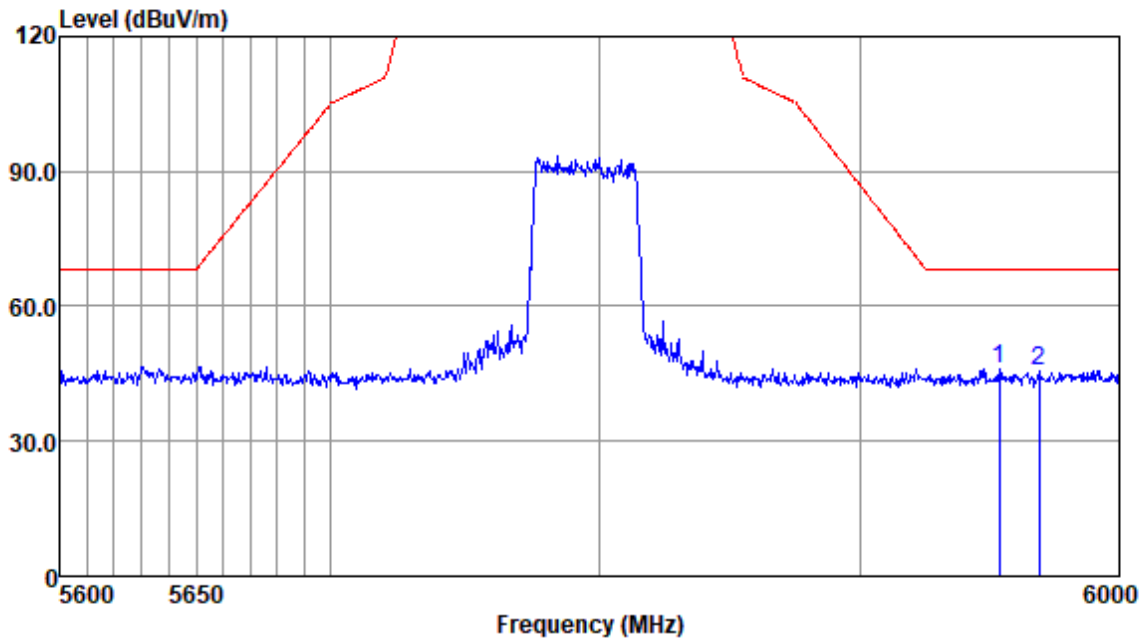
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5625.56	41.90	34.53	5.83	37.00	45.26	68.20	-22.94	Peak
5635.27	41.13	34.53	5.83	37.00	44.49	68.20	-23.71	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



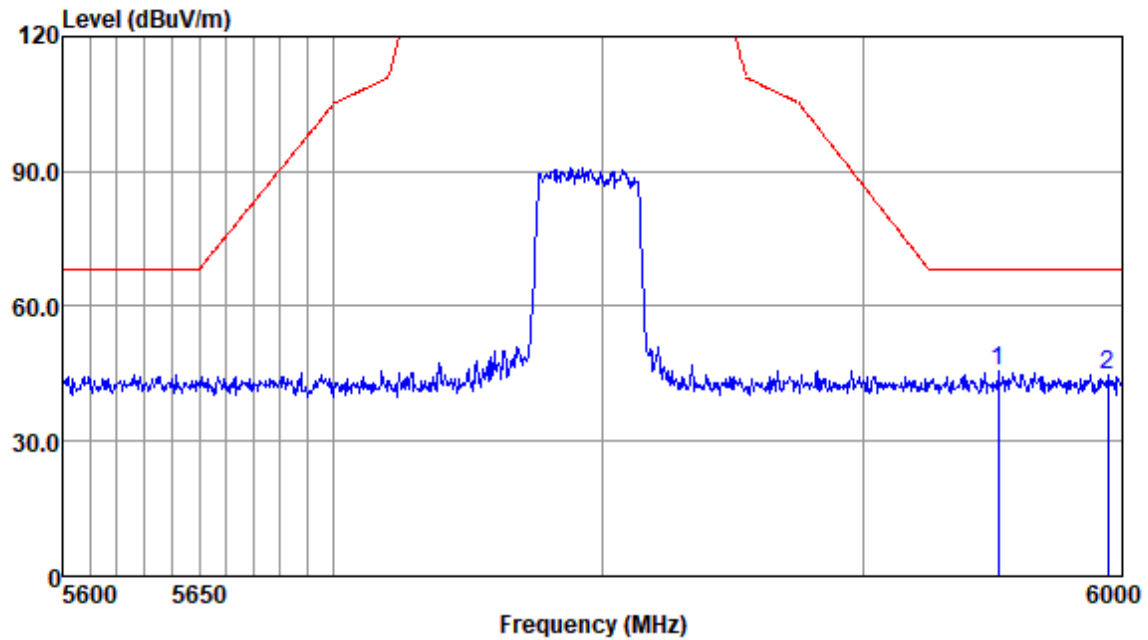
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5953.41	42.53	34.85	5.71	37.05	46.04	68.20	-22.16	Peak
5968.62	41.93	34.90	5.97	37.05	45.75	68.20	-22.45	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



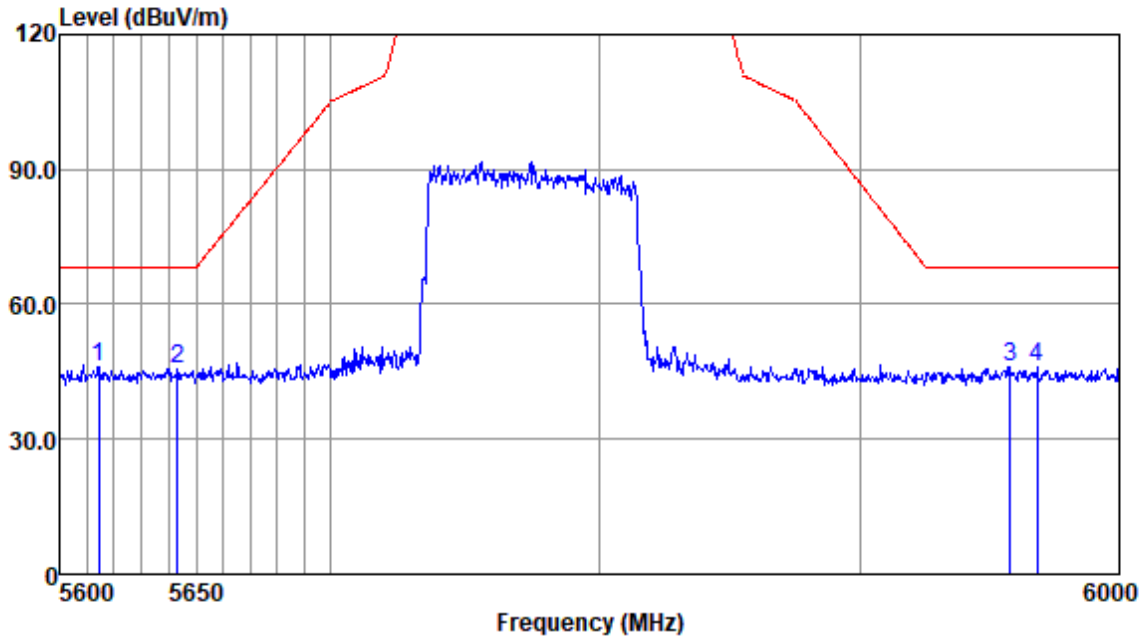
Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5951.76	42.16	34.85	5.71	37.05	45.67	68.20	-22.53	Peak
5994.21	40.96	34.99	5.85	37.06	44.74	68.20	-23.46	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



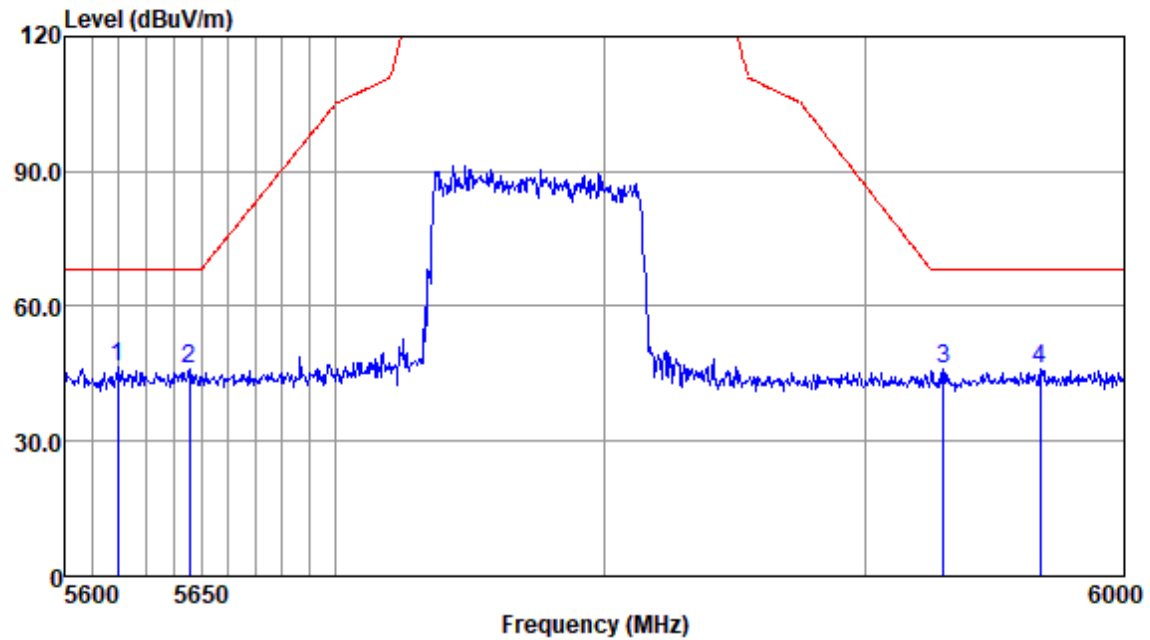
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5614.31	42.57	34.52	5.79	37.00	45.88	68.20	-22.32	Peak
5643.05	42.33	34.53	5.87	37.00	45.73	68.20	-22.47	Peak
5957.51	42.70	34.85	5.71	37.05	46.21	68.20	-21.99	Peak
5967.80	42.37	34.90	5.97	37.05	46.19	68.20	-22.01	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low

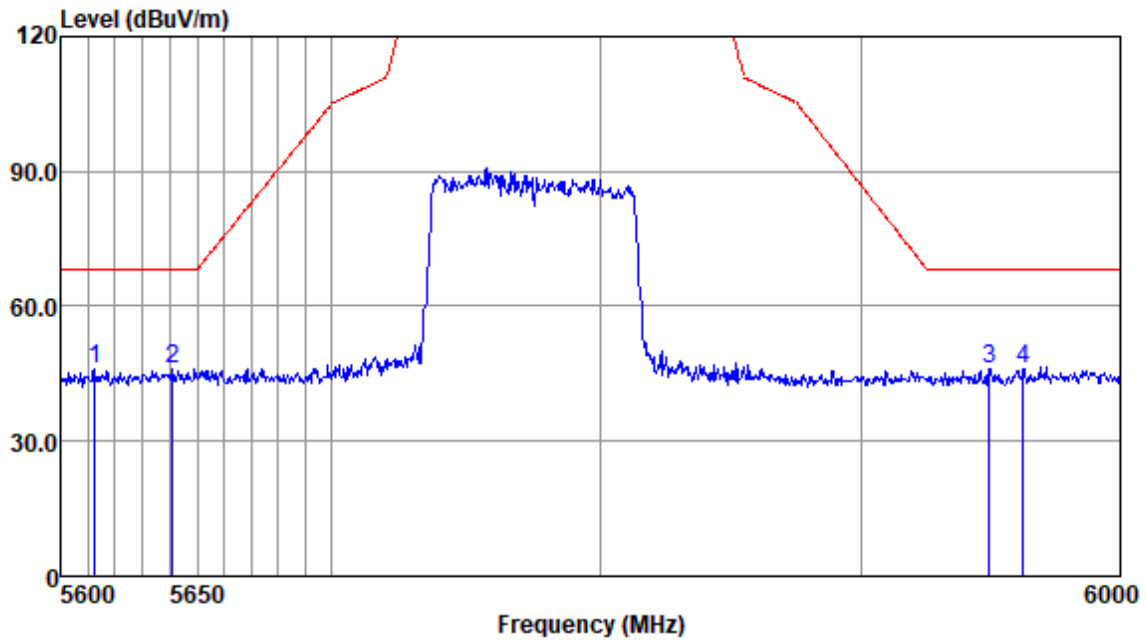


Antenna Polarity :VERTICAL
EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5619.35	43.19	34.52	5.79	37.00	46.50	68.20	-21.70	Peak
5645.78	42.45	34.53	5.87	37.00	45.85	68.20	-22.35	Peak
5929.63	42.18	34.81	5.91	37.05	45.85	68.20	-22.35	Peak
5967.39	42.23	34.90	5.97	37.05	46.05	68.20	-22.15	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



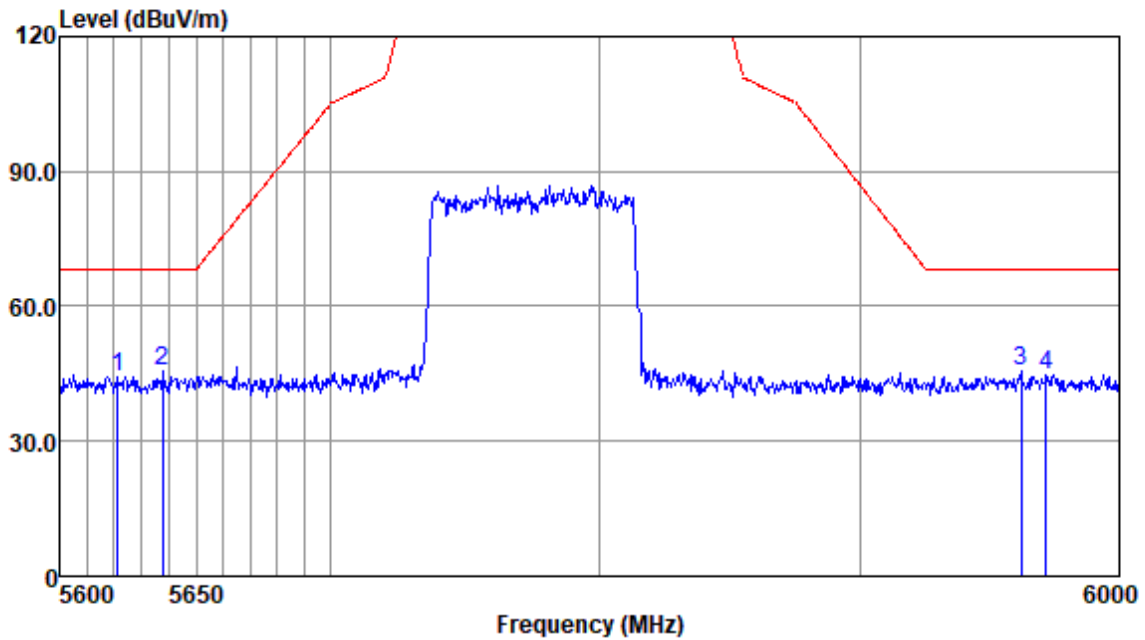
Antenna Polarity :HORIZONTAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5612.38	42.69	34.52	5.79	37.00	46.00	68.20	-22.20	Peak
5641.10	42.67	34.53	5.87	37.00	46.07	68.20	-22.13	Peak
5948.89	42.66	34.85	5.71	37.05	46.17	68.20	-22.03	Peak
5962.04	42.45	34.90	5.97	37.05	46.27	68.20	-21.93	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

EUT/Project :1328AT

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5621.29	41.07	34.52	5.79	37.00	44.38	68.20	-23.82	Peak
5637.60	42.17	34.53	5.83	37.00	45.53	68.20	-22.67	Peak
5961.63	41.70	34.90	5.97	37.05	45.52	68.20	-22.68	Peak
5971.51	41.00	34.90	5.97	37.05	44.82	68.20	-23.38	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

7.6 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

7.6.1 E.U.T. Operation

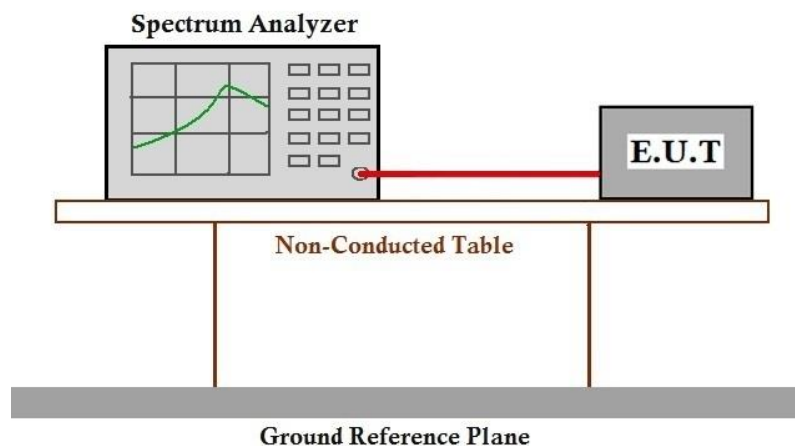
Operating Environment:

Temperature: 26.7 °C Humidity: 57.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, 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: KDB 789033 D02 II C 1

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C

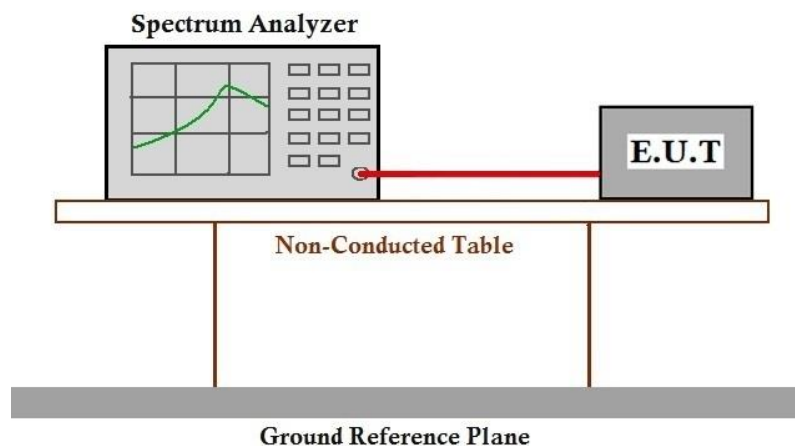
Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, 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 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C

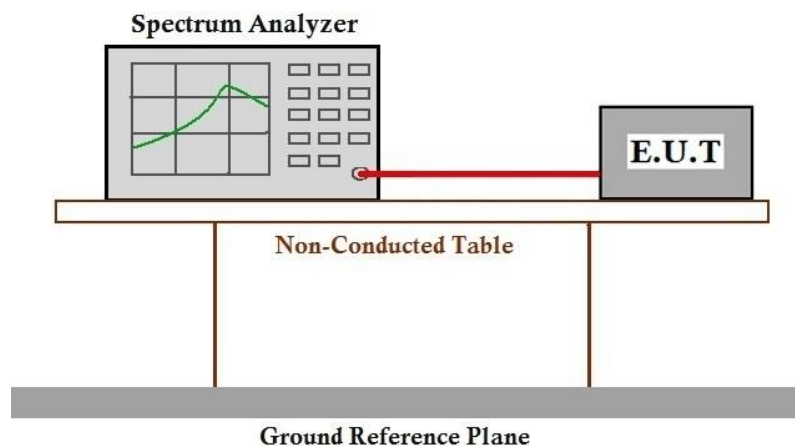
Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C

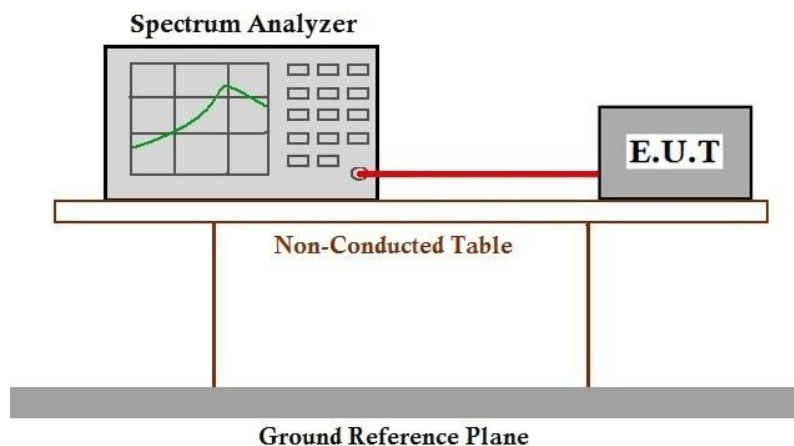
Humidity: 57.4 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, 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 Frequency Stability

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

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C

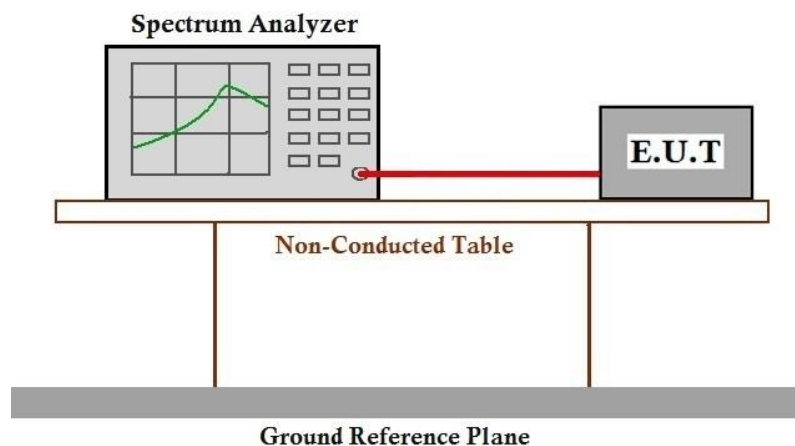
Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, 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



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2407001328AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2407001328AT

10 Appendix

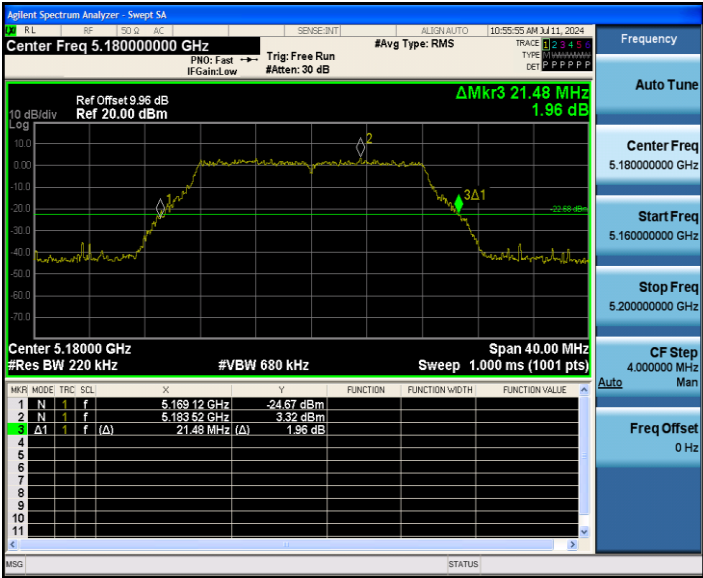
10.1 Appendix A1: Emission Bandwidth

10.1.1 Test Result

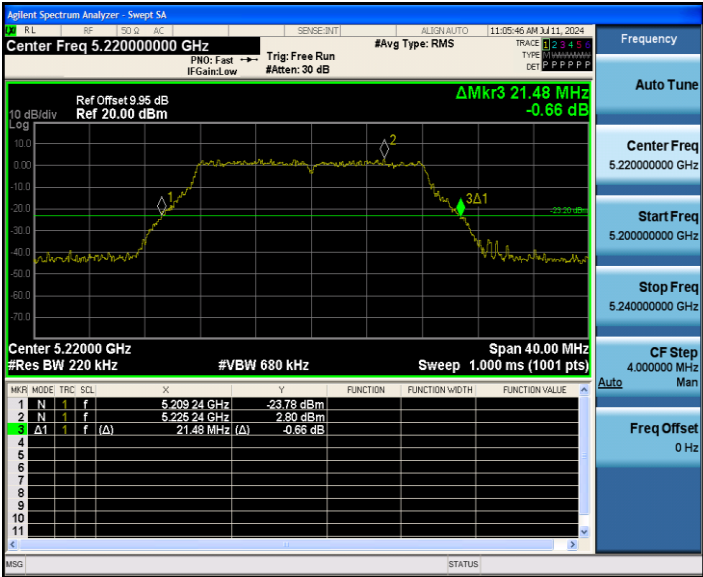
Test Mode	Antenna	Channel	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.480	5169.120	5190.600	---	---
		5220	21.480	5209.240	5230.720	---	---
		5240	21.640	5229.160	5250.800	---	---
		5745	21.480	5734.200	5755.680	---	---
		5785	21.320	5774.360	5795.680	---	---
		5825	21.720	5814.120	5835.840	---	---
11N20SISO	Ant1	5180	21.920	5169.040	5190.960	---	---
		5220	22.040	5209.000	5231.040	---	---
		5240	21.920	5229.000	5250.920	---	---
		5745	21.840	5734.000	5755.840	---	---
		5785	22.040	5773.960	5796.000	---	---
		5825	22.080	5813.880	5835.960	---	---
11N40SISO	Ant1	5190	40.560	5169.600	5210.160	---	---
		5230	40.560	5209.600	5250.160	---	---
		5755	40.880	5734.600	5775.480	---	---
		5795	40.880	5774.680	5815.560	---	---
11AC20SISO	Ant1	5180	21.840	5169.040	5190.880	---	---
		5220	21.640	5209.200	5230.840	---	---
		5240	22.080	5228.840	5250.920	---	---
		5745	21.960	5734.000	5755.960	---	---
		5785	21.920	5774.080	5796.000	---	---
		5825	21.920	5814.200	5836.120	---	---
11AC40SISO	Ant1	5190	40.880	5169.520	5210.400	---	---
		5230	40.720	5209.600	5250.320	---	---
		5755	40.720	5734.520	5775.240	---	---
		5795	40.880	5774.520	5815.400	---	---
11AC80SISO	Ant1	5210	80.800	5169.680	5250.480	---	---
		5775	80.640	5734.680	5815.320	---	---
11AX20SISO	Ant1	5180	22.360	5168.720	5191.080	---	---
		5220	22.320	5208.760	5231.080	---	---
		5240	22.320	5228.720	5251.040	---	---
		5745	22.240	5733.920	5756.160	---	---
		5785	22.560	5773.600	5796.160	---	---
		5825	22.560	5813.680	5836.240	---	---
11AX40SISO	Ant1	5190	41.120	5169.360	5210.480	---	---
		5230	40.720	5209.680	5250.400	---	---
		5755	41.120	5734.360	5775.480	---	---
		5795	41.040	5774.440	5815.480	---	---
11AX80SISO	Ant1	5210	82.240	5168.880	5251.120	---	---
		5775	82.240	5733.880	5816.120	---	---

10.1.2 Test Graphs

11A_Ant1_5180



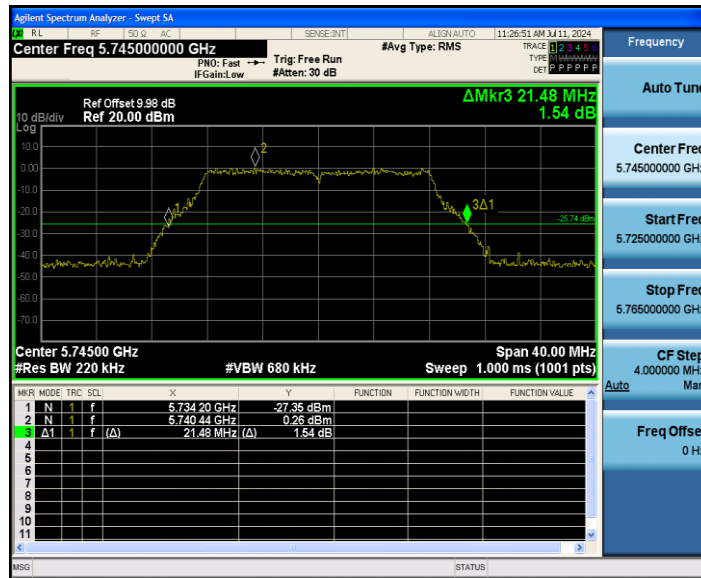
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11A_Ant1_5240



11A_Ant1_5745



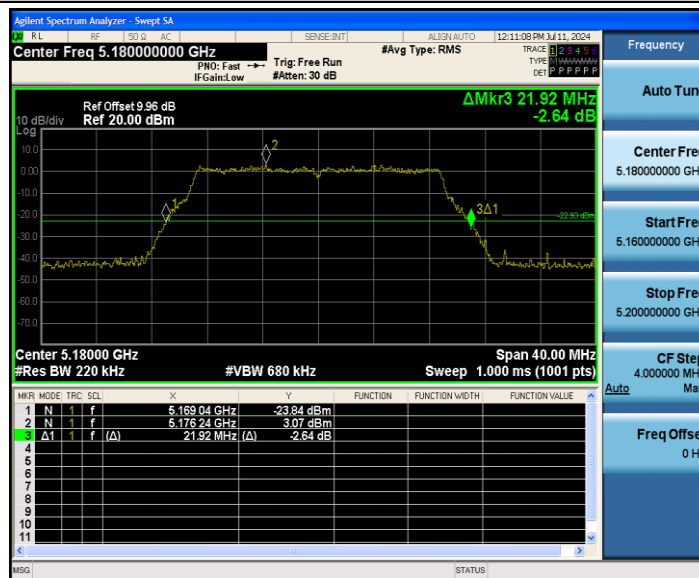
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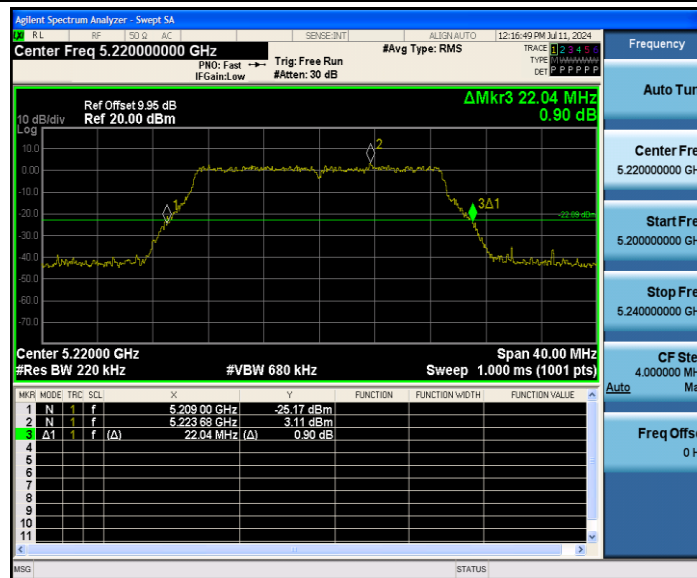
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11N20SISO_Ant1_5180



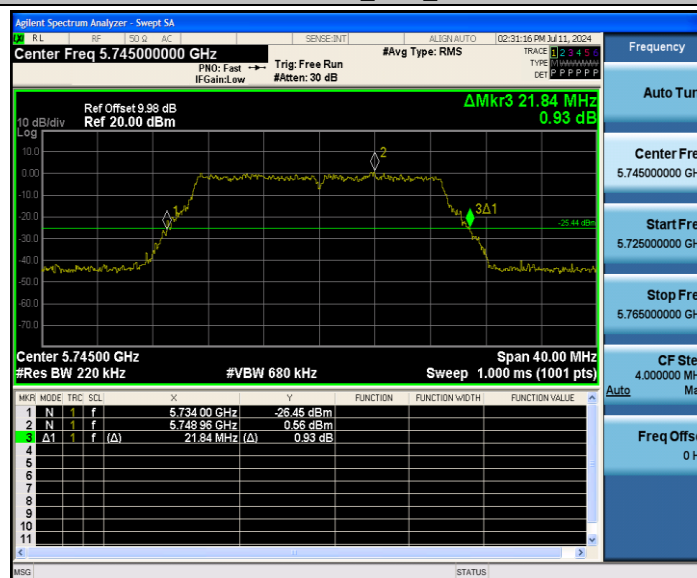
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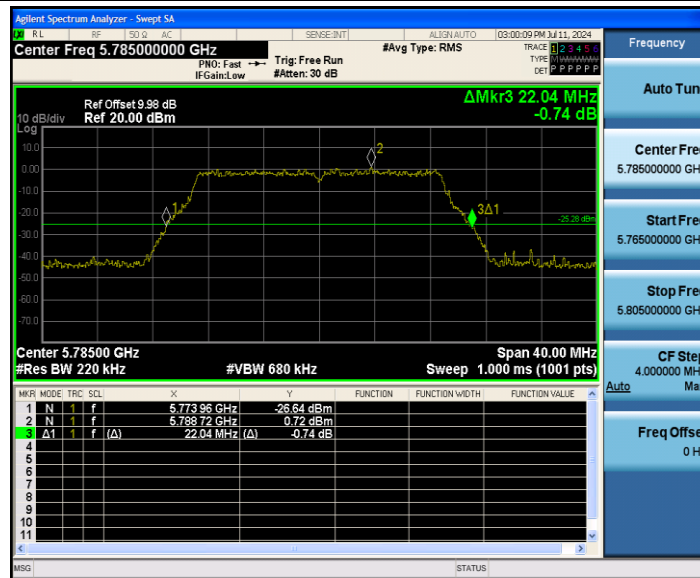
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

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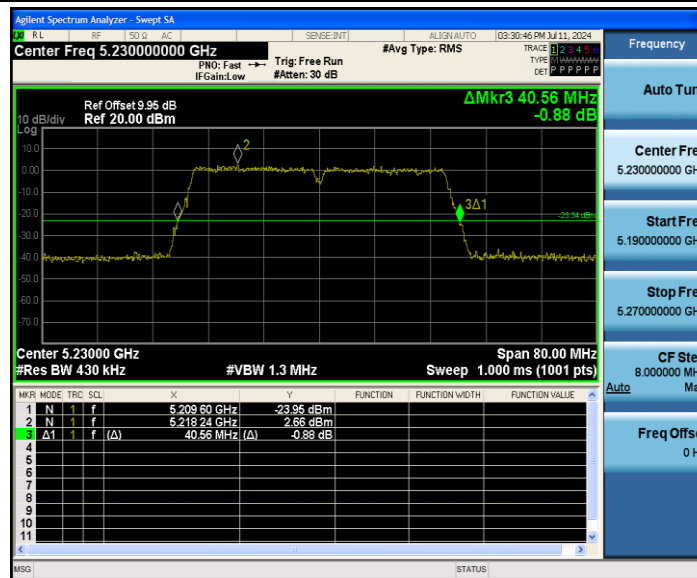
SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR240700132804

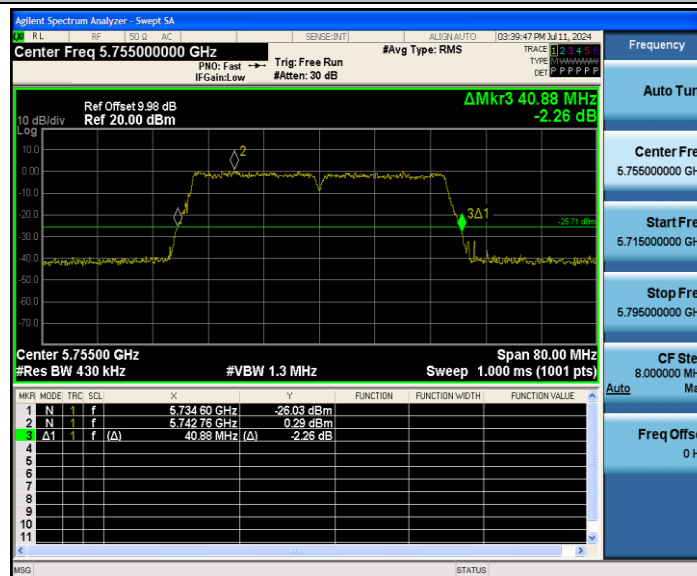
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



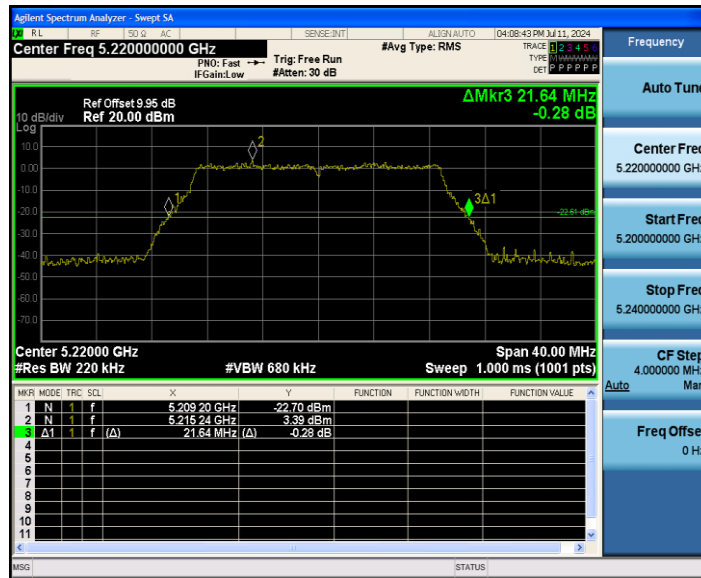
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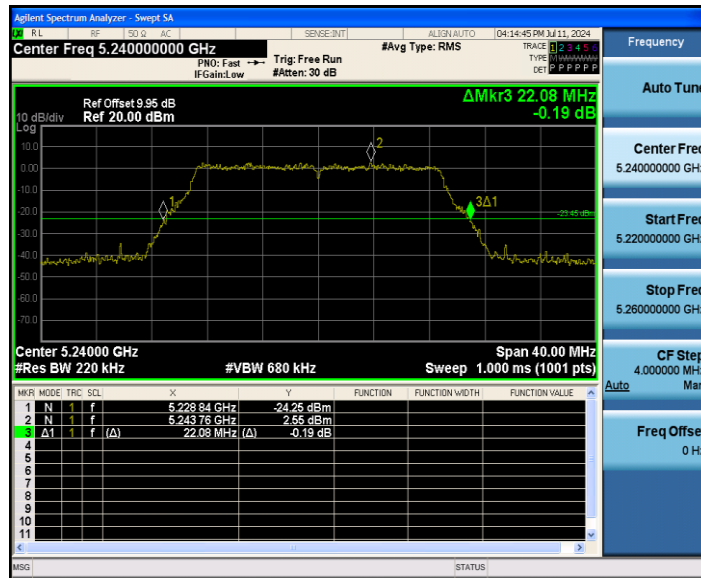
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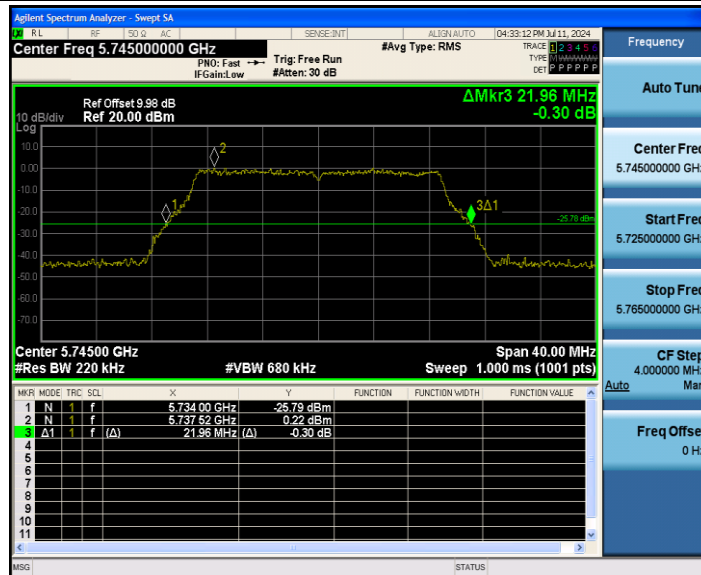
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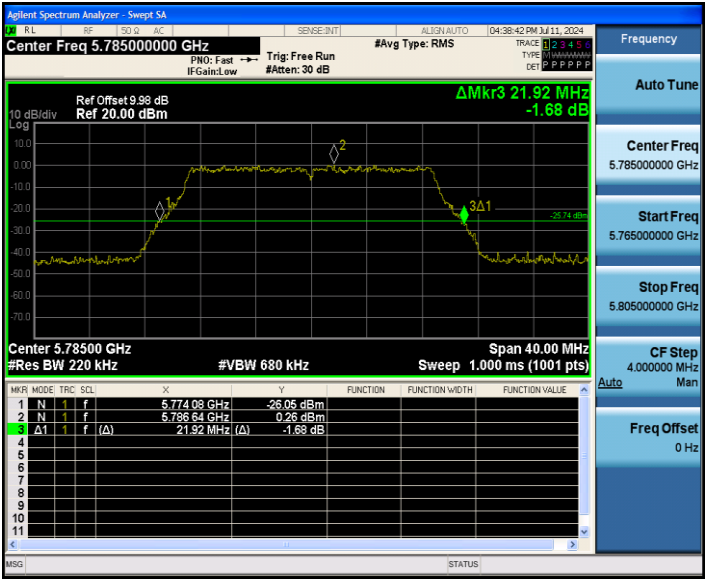
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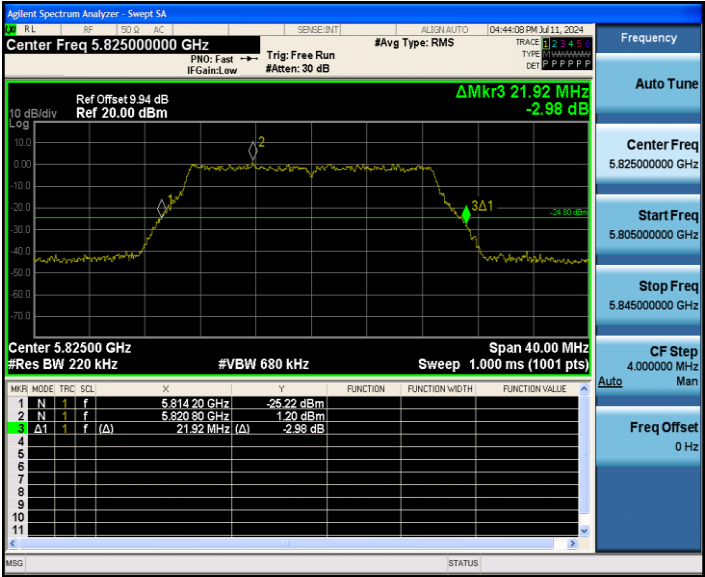
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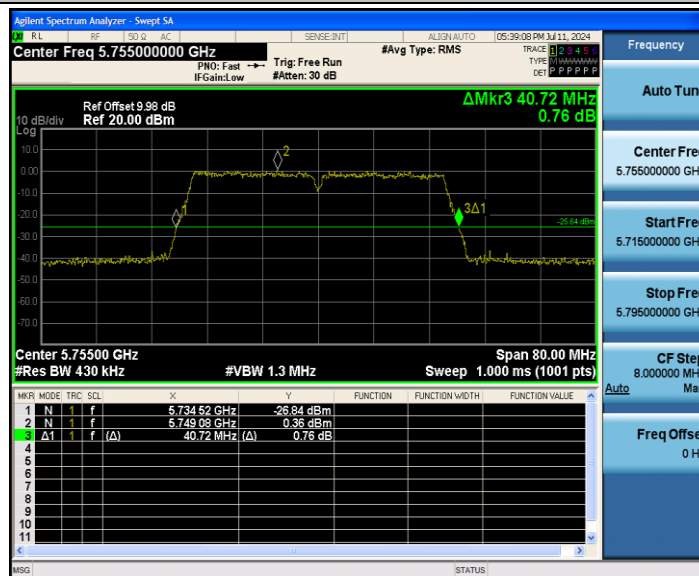
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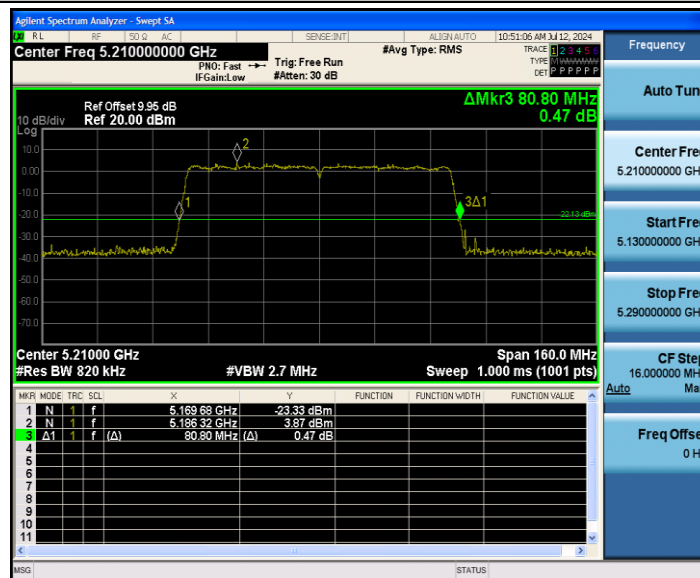
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775