

FCC Radio Test Report

FCC ID: 2AV2N-SR1041F

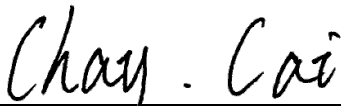
This report concerns: Original Grant

Project No. : 2204C161
Equipment : Wireless Router
Brand Name : FiberHome
Test Model : SR1041F
Series Model : N/A
Applicant : Fiberhome Telecommunication Technologies Co., Ltd.
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Manufacturer : Fiberhome Telecommunication Technologies Co., Ltd.
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Factory : Fiberhome Telecommunication Technologies Co., Ltd.
Address : No.88 Youkeyuan Road, Hongshan District, Wuhan, Hubei , China
Date of Receipt : Apr. 26, 2022
Date of Test : Apr. 27, 2022 ~ May 21, 2022
Issued Date : Jun. 02, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG20220427114 for conducted,
DG20220427113 for radiated
Standard(s) : FCC CFR Title 47, Part 15, Subpart E
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



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TESTING CERT #5123.02

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2204C161	R00	Original Report	Jun. 02, 2022	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.407(a) 15.407(e)	Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum Output Power	APPENDIX F	PASS	-----
15.407(a)	Power Spectral Density	APPENDIX G	PASS	-----
15.407(g)	Frequency Stability	APPENDIX H	PASS	-----
15.203	Antenna Requirements	-----	PASS	NOTE (2)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (3)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (4) For UNII-1 this device was functioned as a
 - ☐ Outdoor access point device
 - ☒ Indoor access point device
 - ☐ Fixed point-to-point access points device
 - ☐ Client device

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	3.80
		6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.62
		26.5 ~ 40 GHz	4.00

C. Other Measurement test:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Humidity	±1.5%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	55%	AC 120V/60Hz	Rod Tang
Radiated Emissions-9kHz to 30MHz	22°C	50%	AC 120V/60Hz	Torocat Yuan
Radiated Emissions-30MHz to 1000MHz	23°C	53%	AC 120V/60Hz	Meers Zhang
Radiated Emissions-Above 1000 MHz	23°C	53%	AC 120V/60Hz	Meers Zhang
Bandwidth	22°C-27°C	51%-59%	DC 12V	Nicole Chen
Maximum Output Power	23.5°C	58%-67.3%	DC 12V	Lang Chen Complex Qin
Power Spectral Density	22°C-27°C	51%-59%	DC 12V	Nicole Chen
Frequency Stability	Normal & Extreme	51%-59%	Normal & Extreme	Nicole Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Router
Brand Name	FiberHome
Test Model	SR1041F
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC adapter. 1# Model: RD1201000-C55-35MGD 2# Model: KL-WA120100-D
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.6A MAX O/P: 12V $\overline{=}$ 1.0A 2# I/P: 100-240V~ 50/60Hz 0.5A O/P: 12.0V $\overline{=}$ 1.0A
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.7 Mbps IEEE 802.11ax: up to 2402 Mbps
Maximum Output Power UNII-1 Non Beamforming	IEEE 802.11ax(HE40): 15.99 dBm (0.0397 W)
Maximum Output Power UNII-2A Non Beamforming	IEEE 802.11ac(VHT40): 15.93 dBm (0.0392 W)
Maximum Output Power UNII-3 Non Beamforming	IEEE 802.11ac(VHT40): 16.57 dBm (0.0454 W)
Maximum Output Power UNII-1 Beamforming	IEEE 802.11ax(HE40): 15.45 dBm (0.0351 W)
Maximum Output Power UNII-2A Beamforming	IEEE 802.11ac(VHT40): 15.39 dBm (0.0346 W)
Maximum Output Power UNII-3 Beamforming	IEEE 802.11ac(VHT40): 16.04 dBm (0.0402 W)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

IEEE 802.11ax(HE160)	
Channel	Frequency (MHz)
50	5250

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		RFB1605CBB01C	Dipole	IPEX	5.19
2		RFB1605CBB01D	Dipole	IPEX	5.16
3		RFB1605CBB01E	Dipole	IPEX	5.29

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, so Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{5.19/20}+10^{5.16/20}+10^{5.29/20})^2/3]$ dBi =9.98. So, the UNII-1, UNII-3 output power limit is 30-(9.98-6)=26.02, the UNII-2A output power limit is 23.98-(9.98-6)=20. The UNII-1 power spectral density limit is 17-(9.98-6)=13.02, the UNII-2A power spectral density limit is 11-(9.98-6)=7.02, the UNII-3 power spectral density limit is 30-(9.98-6)=26.02.
- 2) Beamforming Gain: 4.7 dB. That is Directional gain=4.7+5.29=9.99. So, the UNII-1, UNII-3 output power limit is 30-(9.99-6)=26.01, the UNII-2A output power limit is 23.98-(9.99-6)=19.99.
- 3) The antenna gain and beamforming gain are provided by the manufacturer.
- 4) The EUT is 3T3R, but only NSS2 is supported.

4. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode TX Mode	1TX	3TX
IEEE 802.11a	V (Ant. 1)	-
IEEE 802.11n(HT20)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11n(HT40)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ac(VHT20)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ac(VHT40)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ac(VHT80)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE20)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE40)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE80)	-	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE160)	-	V (Ant. 1+Ant. 2+Ant. 3)

For Beamforming:

Operating Mode TX Mode	3TX
IEEE 802.11n(HT20)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11n(HT40)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ac(VHT20)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ac(VHT40)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ac(VHT80)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE20)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE40)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE80)	V (Ant. 1+Ant. 2+Ant. 3)
IEEE 802.11ax(HE160)	V (Ant. 1+Ant. 2+Ant. 3)

2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 11	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 12	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 20	TX A Mode Channel 149/157/165 (UNII-3)
Mode 21	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 22	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)
Mode 29	TX AC(VHT40) Mode Channel 159 (UNII-3)

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 29	TX AC(VHT40) Mode Channel 159 (UNII-3)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 29	TX AC(VHT40) Mode Channel 159 (UNII-3)

Radiated Emissions Test - Above 1GHz_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 20	TX A Mode Channel 149/157/165 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)

Maximun Output Power Test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 11	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 12	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 20	TX A Mode Channel 149/157/165 (UNII-3)
Mode 21	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 22	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)

Maximun Output Power Test_Beamforming	
Final Test Mode	Description
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 11	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 12	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 21	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 22	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)

Other Conducted Test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 20	TX A Mode Channel 149/157/165 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)

Note:

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AC(VHT40) Mode Channel 159 (UNII-3) is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) The measurements for Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80) mode, IEEE 802.11ax(HE20) mode, IEEE 802.11ax(HE40) mode, IEEE 802.11ax(HE80) mode and IEEE 802.11ax(HE160) mode, only the worst cases are documented for other test items.
- (5) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (6) For AC power line conducted emissions and radiated emissions below 1 GHz test, all adapters had been pre-tested and in this report only recorded the worst case.
- (7) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
- (8) For radiated emission above 1 GHz test: The polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

UNII-1			
Test Software Version	QATool_Dbg 0.0.2.73		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	8.5	8.5	8.5
IEEE 802.11n(HT20)	7	6	7
IEEE 802.11ac(VHT20)	7	6	6.5
IEEE 802.11ax(HE20)	9.5	9	9
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	7	7	
IEEE 802.11ac(VHT40)	7	7	
IEEE 802.11ax(HE40)	9	9	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	8.5		
IEEE 802.11ax(HE80)	9.5		

UNII-2A			
Test Software Version	QATool_Dbg 0.0.2.73		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	8.5	8	8.5
IEEE 802.11n(HT20)	7	7	7
IEEE 802.11ac(VHT20)	6.5	7	7
IEEE 802.11ax(HE20)	9.5	10.5	10
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	7	7	
IEEE 802.11ac(VHT40)	7	7	
IEEE 802.11ax(HE40)	8.5	9	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	6.5		
IEEE 802.11ax(HE80)	7		

UNII-1+UNII-2A	
Test Software Version	QATool_Dbg 0.0.2.73
Frequency (MHz)	5250
IEEE 802.11ax(HE160)	12

UNII-3			
Test Software Version	QATool_Dbg 0.0.2.73		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	10	9.5	10
IEEE 802.11n(HT20)	8	7.5	8
IEEE 802.11ac(VHT20)	7.5	7.5	8
IEEE 802.11ax(HE20)	11.5	10	11
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	8	8	
IEEE 802.11ac(VHT40)	8	8	
IEEE 802.11ax(HE40)	9.5	9.5	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	9		
IEEE 802.11ax(HE80)	10		

Beamforming

UNII-1			
Test Software Version	QATool_Dbg 0.0.2.73		
Frequency (MHz)	5180	5200	5240
IEEE 802.11n(HT20)	6.5	5.5	6.5
IEEE 802.11ac(VHT20)	6.5	5.5	6
IEEE 802.11ax(HE20)	9	8.5	8.5
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	6.5	6.5	
IEEE 802.11ac(VHT40)	6.5	6.5	
IEEE 802.11ax(HE40)	8.5	8.5	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	8		
IEEE 802.11ax(HE80)	9		

UNII-2A			
Test Software Version	QATool_Dbg 0.0.2.73		
Frequency (MHz)	5260	5300	5320
IEEE 802.11n(HT20)	6.5	6.5	6.5
IEEE 802.11ac(VHT20)	6	6.5	6.5
IEEE 802.11ax(HE20)	9	10	9.5
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	6.5	6.5	
IEEE 802.11ac(VHT40)	6.5	6.5	
IEEE 802.11ax(HE40)	8	8.5	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	6		
IEEE 802.11ax(HE80)	6.5		

UNII-1+UNII-2A	
Test Software Version	QATool_Dbg 0.0.2.73
Frequency (MHz)	5250
IEEE 802.11ax(HE160)	11.5

UNII-3			
Test Software Version	QATool_Dbg 0.0.2.73		
Frequency (MHz)	5745	5785	5825
IEEE 802.11n(HT20)	7.5	7	7.5
IEEE 802.11ac(VHT20)	7	7	7.5
IEEE 802.11ax(HE20)	11	9.5	10.5
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	7.5	7.5	
IEEE 802.11ac(VHT40)	7.5	7.5	
IEEE 802.11ax(HE40)	9	9	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	8.5		
IEEE 802.11ax(HE80)	9.5		

2.4 DUTY CYCLE

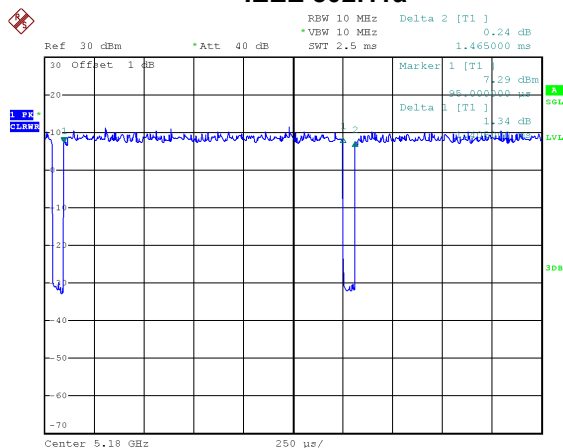
If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

The output power = measured power + duty factor.

The power spectral density = measured power spectral density + duty factor.

IEEE 802.11a

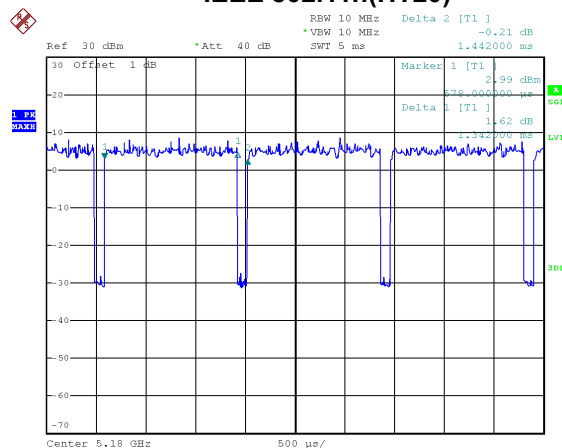


Date: 11.MAY.2022 17:19:36

Duty cycle = 1.405 ms / 1.465 ms = 95.90%

Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.18$

IEEE 802.11n(HT20)

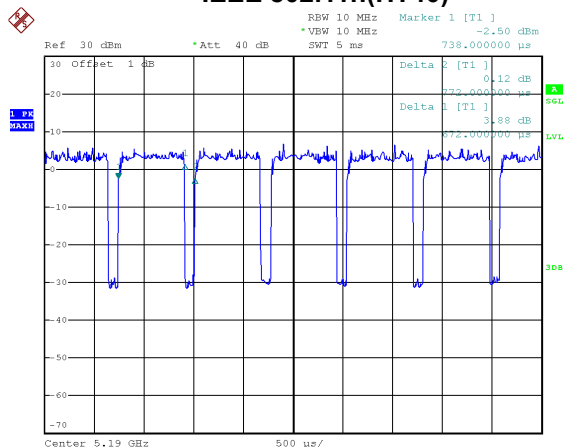


Date: 16.MAY.2022 16:33:18

Duty cycle = 1.342 ms / 1.442 ms = 93.07%

Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.31$

IEEE 802.11n(HT40)

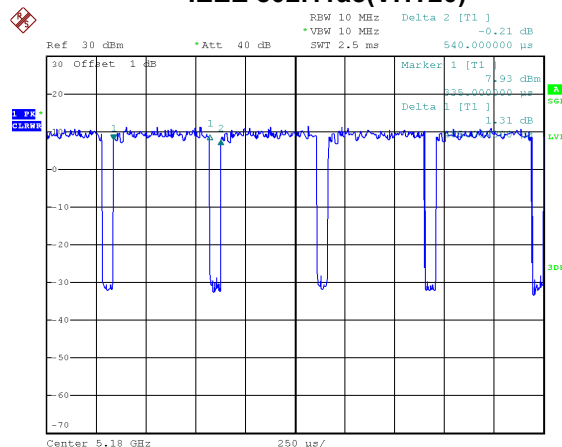


Date: 16.MAY.2022 16:34:43

Duty cycle = 0.672 ms / 0.738 ms = 91.06%

Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.41$

IEEE 802.11ac(VHT20)

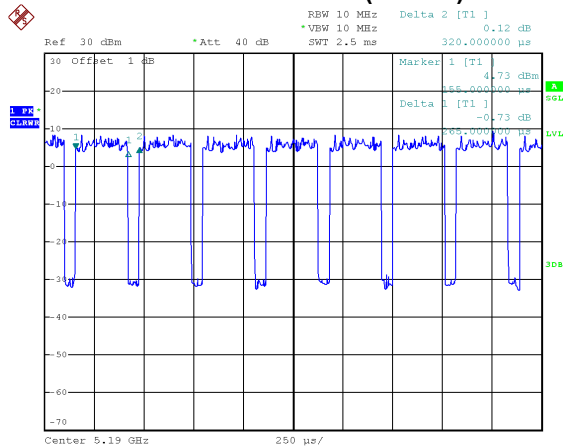


Date: 11.MAY.2022 17:19:58

Duty cycle = 0.485 ms / 0.540 ms = 89.81%

Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.47$

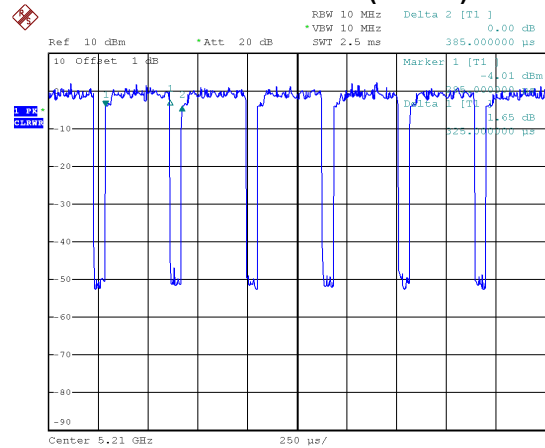
IEEE 802.11ac(VHT40)



Date: 11.MAY.2022 17:21:22

Duty cycle = 0.265 ms / 0.320 ms = 82.81%
Duty Factor = 10 log(1 / Duty cycle) = 0.82

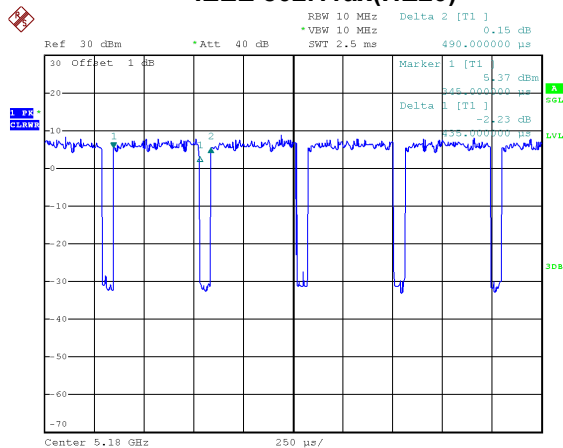
IEEE 802.11ac(VHT80)



Date: 15.MAY.2022 14:41:29

Duty cycle = 0.325 ms / 0.385 ms = 84.42%
Duty Factor = 10 log(1 / Duty cycle) = 0.74

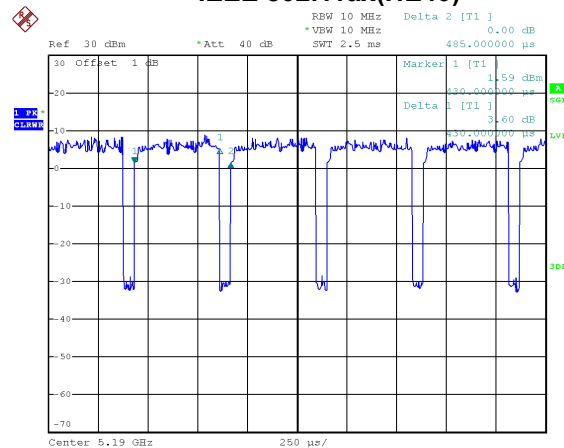
IEEE 802.11ax(HE20)



Date: 11.MAY.2022 17:27:00

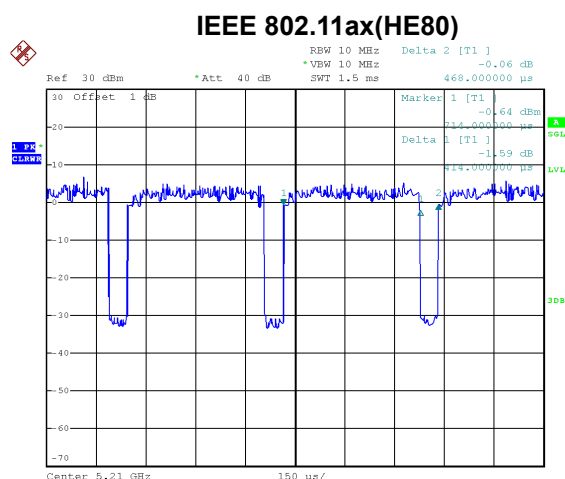
Duty cycle = 0.435 ms / 0.490 ms = 88.78%
Duty Factor = 10 log(1 / Duty cycle) = 0.52

IEEE 802.11ax(HE40)



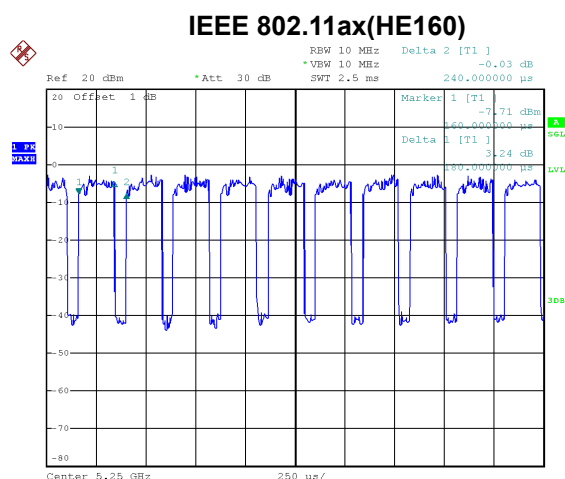
Date: 11.MAY.2022 17:27:25

Duty cycle = 0.430 ms / 0.485 ms = 88.66%
Duty Factor = 10 log(1 / Duty cycle) = 0.52



Date: 11.MAY.2022 17:28:39

Duty cycle = 0.414 ms / 0.468 ms = 88.46%
 Duty Factor = 10 log(1 / Duty cycle) = 0.53



Date: 20.MAY.2022 00:26:15

Duty cycle = 0.180 ms / 0.240 ms = 75.00%
 Duty Factor = 10 log(1 / Duty cycle) = 1.25

NOTE:

For IEEE 802.11a:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 712 Hz (Duty cycle < 98%).

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 745 Hz (Duty cycle < 98%).

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1488 Hz (Duty cycle < 98%).

For IEEE 802.11ac(VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2062 Hz (Duty cycle < 98%).

For IEEE 802.11ac(VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3774 Hz (Duty cycle < 98%).

For IEEE 802.11ac(VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3077 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2299 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2326 Hz (Duty cycle < 98%).

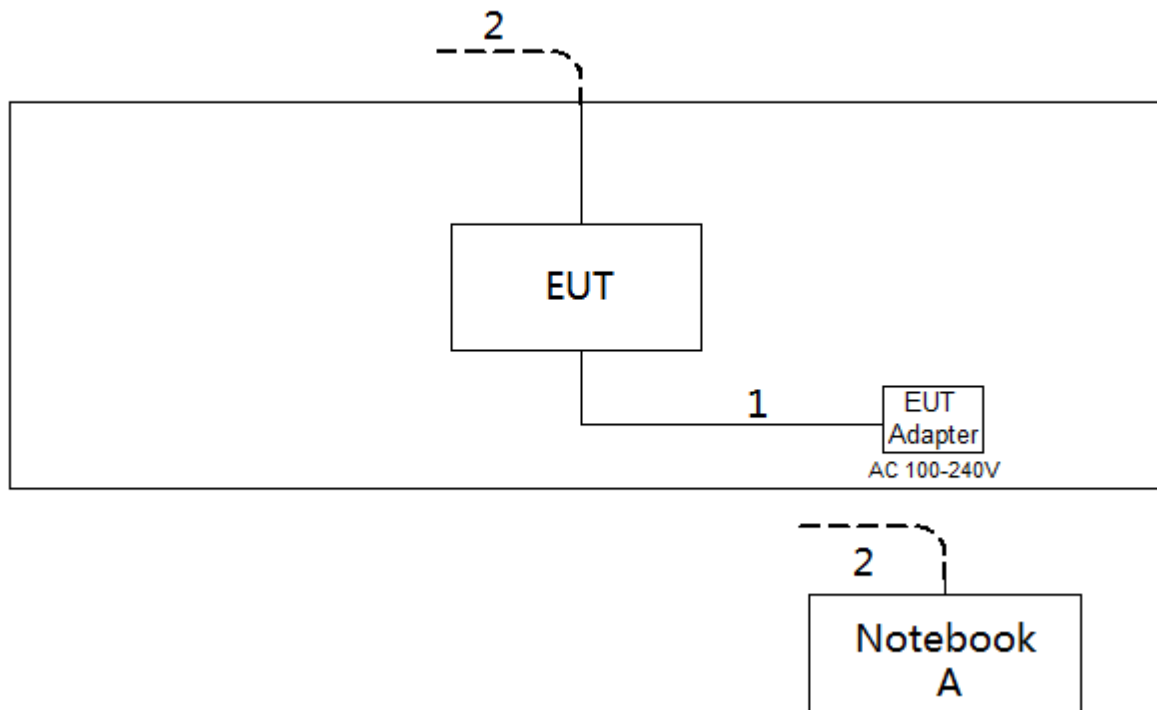
For IEEE 802.11ax(HE80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2415 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE160):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 5556 Hz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

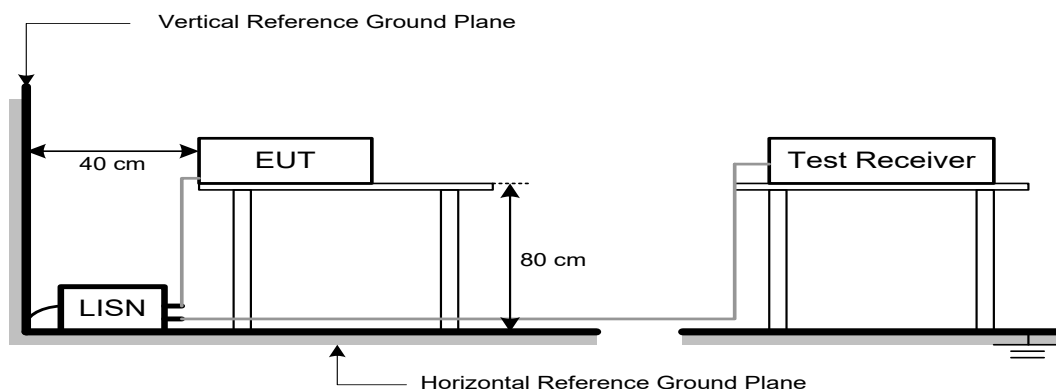
The following table is the setting of the receiver:

Receiver Parameter	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.2
5250-5350	-27	68.2
5725-5850 NOTE (2)	-27	68.2
	10	105.2
	15.6	110.8
	27	122.2

NOTE:

- (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

- (2) According to 15.407(b)(4)(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.

4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic or 40 GHz, whichever is lower
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

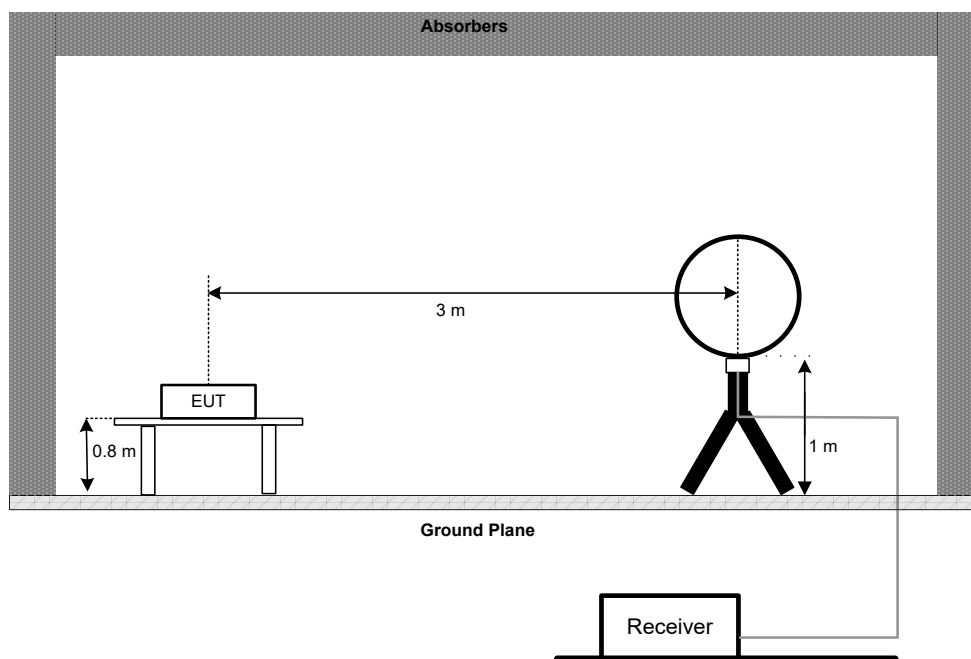
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

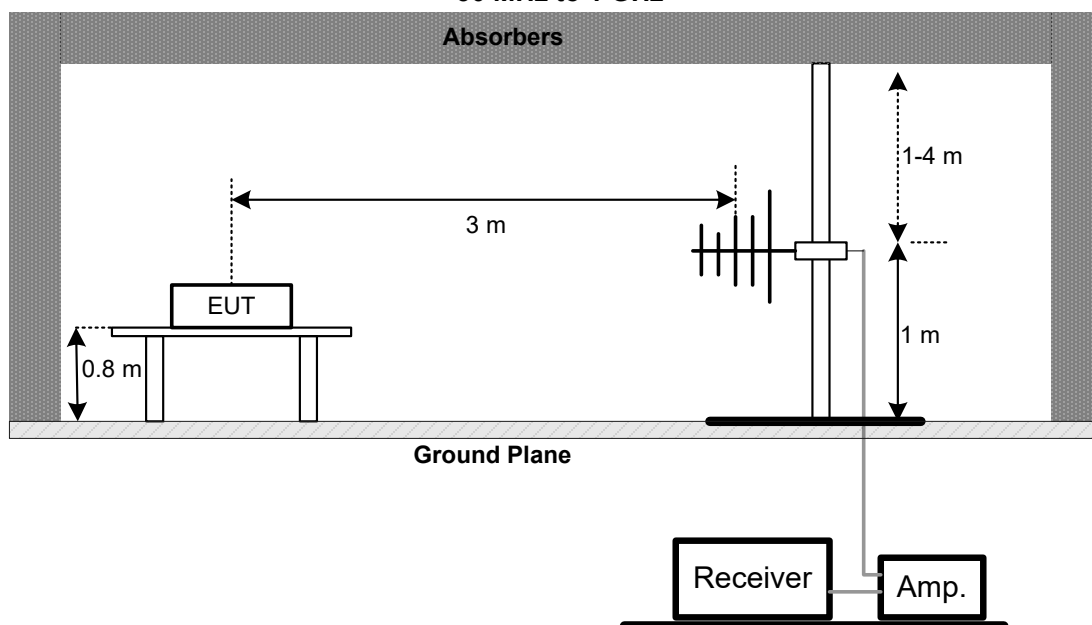
No deviation.

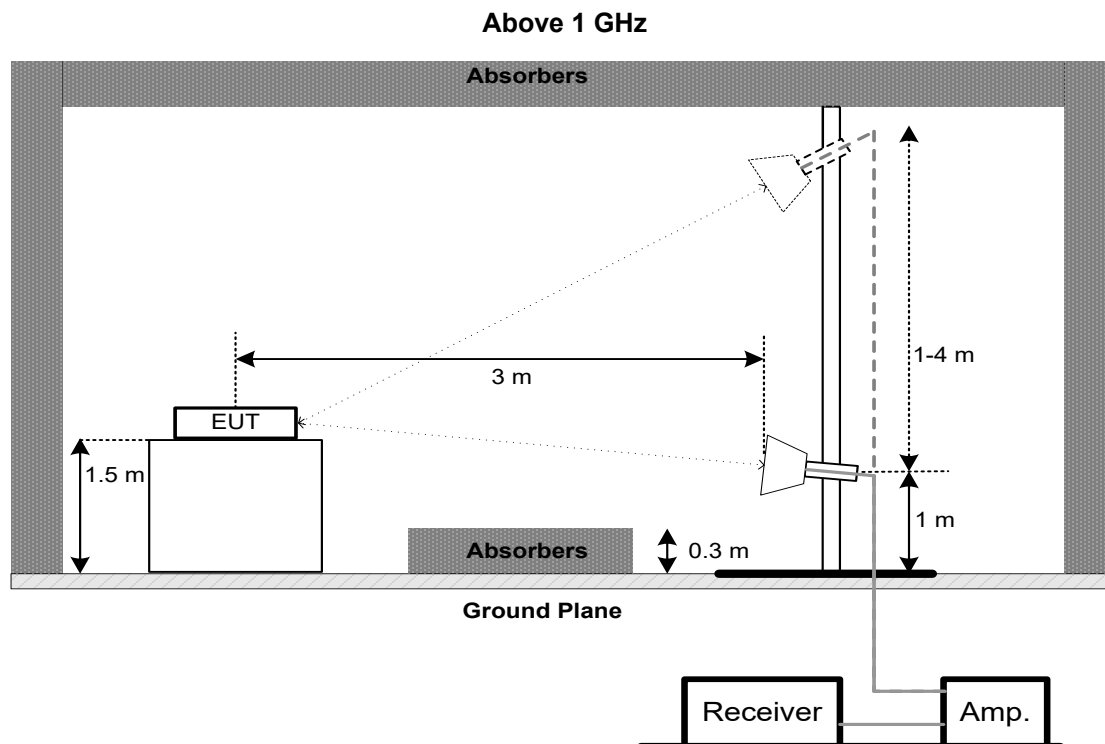
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a) FCC 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below

- b. Spectrum Setting:

For UNII-1, UNII-2A:

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Occupied Bandwidth:

Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- c. Measured the spectrum width with power higher than 26 dB / 6 dB below carrier.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP**5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		1 Watt (30dBm)	5725-5850

Note:

- For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

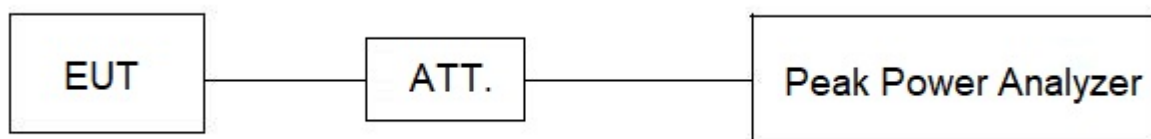
6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:
For UNII-1, UNII-2A:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz.
VBW	3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	100 kHz.
VBW	300 kHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/100 \text{ kHz})$ to the measured result, i.e. 7 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=100kHz has been added 7 dB by compensating offset. For example, the cable loss is 13 dB, and the final offset is $13 + 7 = 20 \text{ dB}$ when RBW=100kHz is used.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. FREQUENCY STABILITY

8.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5250-5350
			5725-5850

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

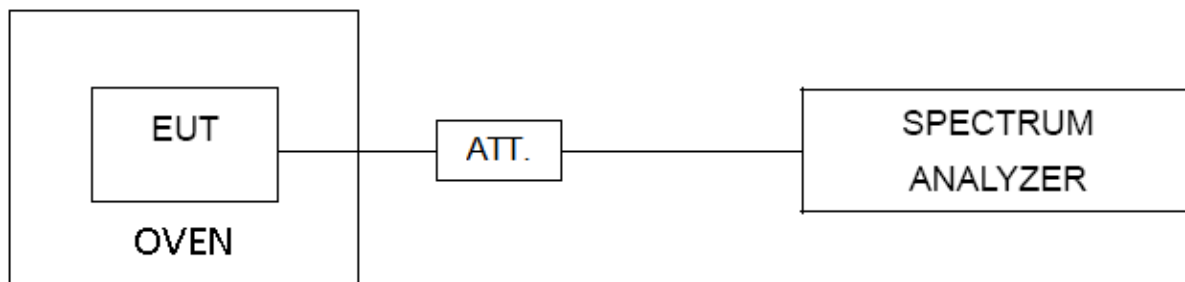
Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is -5°C~45°C.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Jan. 22, 2023
2	LISN	EMCO	3816/2	52765	Jan. 23, 2023
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 23, 2023
4	50Ω Terminator	SHX	TF5-3	15041305	N/A
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 08, 2023
7	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2023
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 27, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 03, 2023
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 18, 2023
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2023
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 16, 2022
9	Cable	Talent microwave	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 30, 2022
11*	Band Reject Filter	Micro-Tronics	BRC50704-01	8	Feb. 27, 2024
12*	Band Reject Filter	Micro-Tronics	BRC50703-01	7	Feb. 27, 2024
13*	Band Reject Filter	Micro-Tronics	BRC50705-01	10	Feb. 27, 2024
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
15	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Bandwidth & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
4	RF Cable	Tongkaichuan	N/A	N/A	N/A

Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Precision Oven Tester	CEPREI	CEEC-M64T-40	15-008	Jan. 22, 2023
3	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
4	RF Cable	Tongkaichuan	N/A	N/A	N/A
5	DC Block	Mini	N/A	N/A	N/A

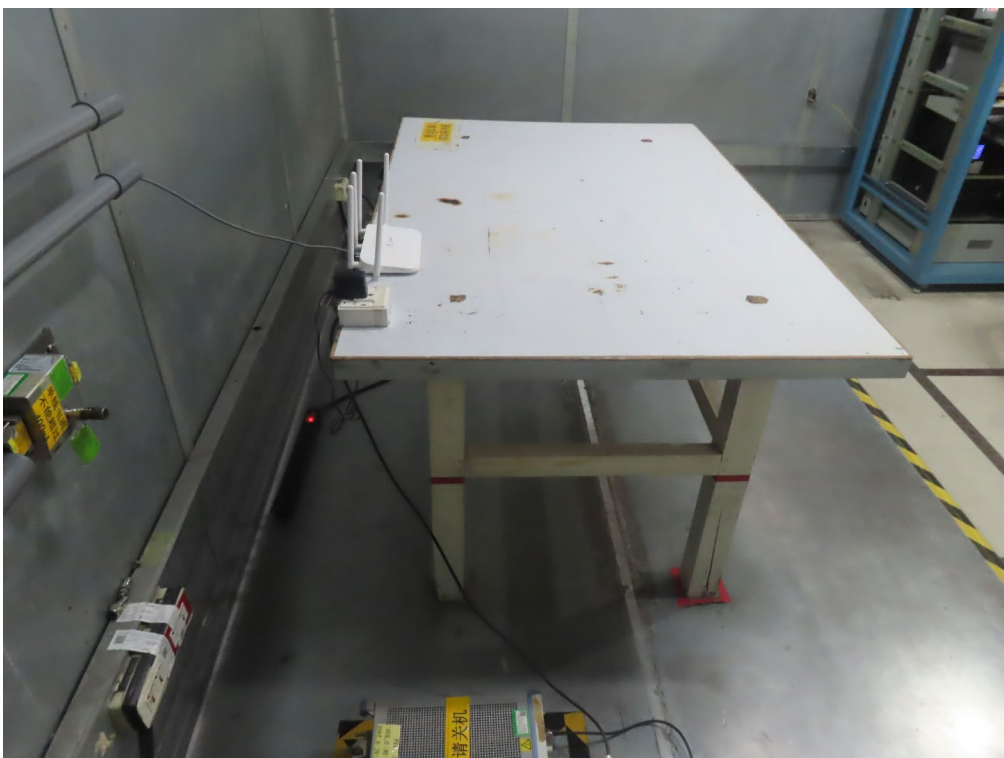
Remark: "N/A" denotes no model name, serial no. or calibration specified.

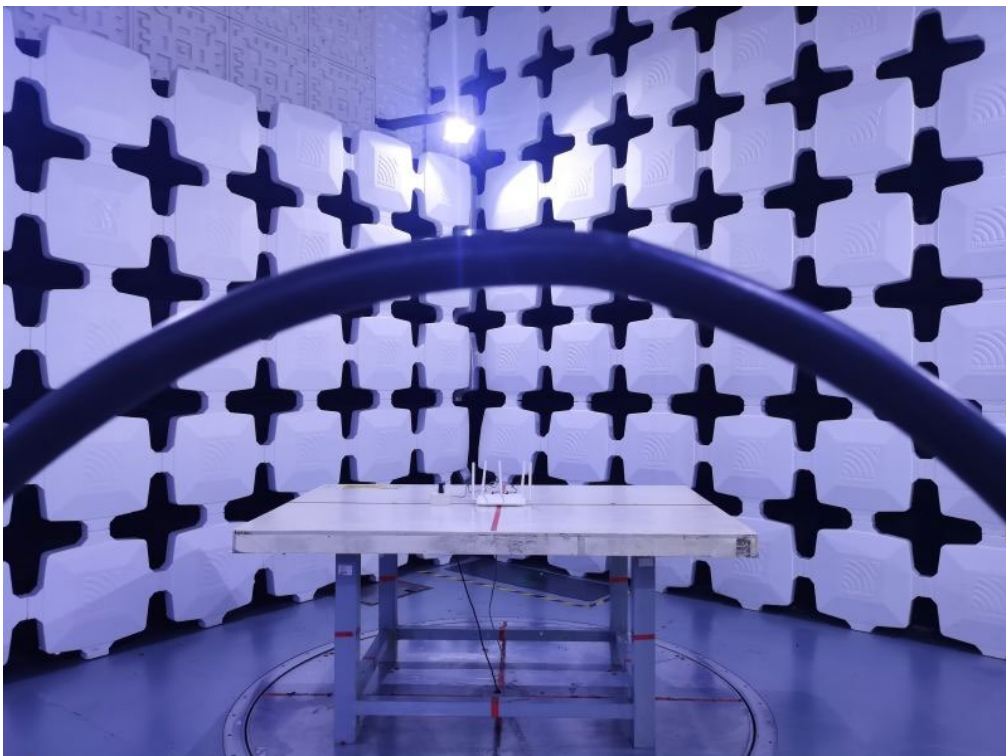
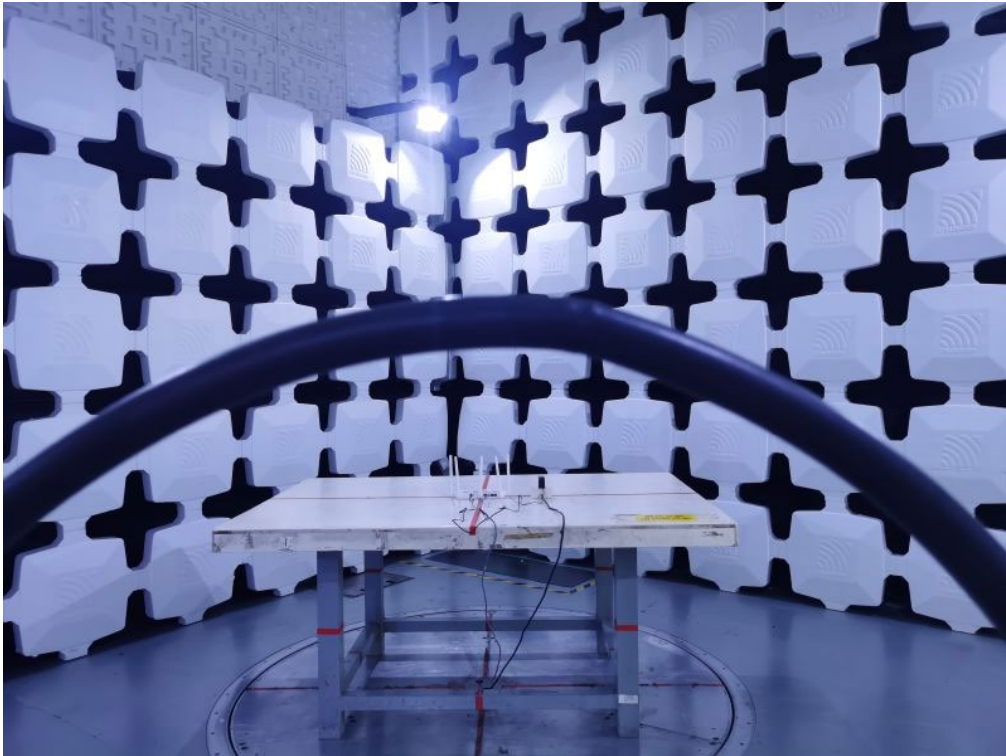
"**" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.

10. EUT TEST PHOTOS

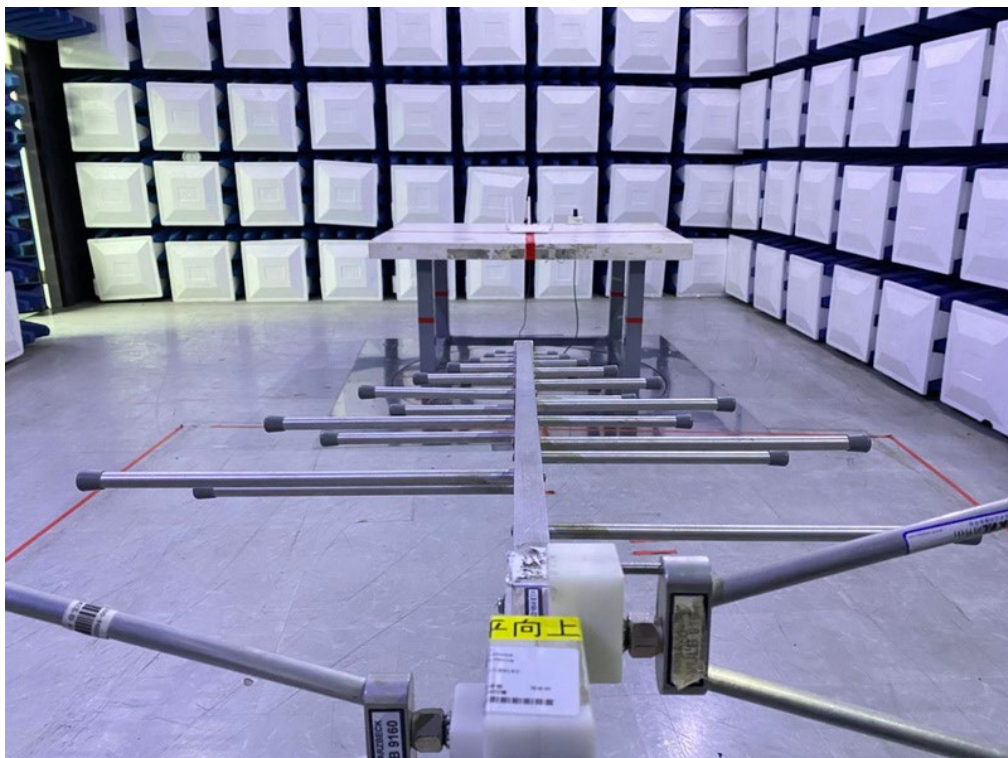
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos**9 kHz to 30 MHz**

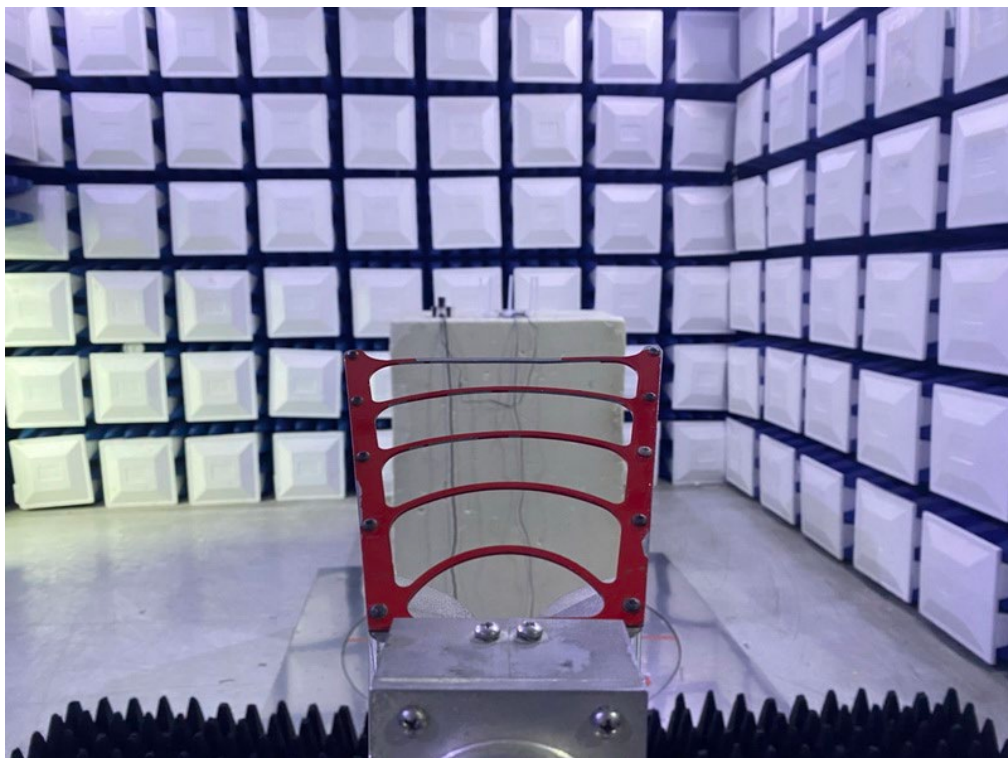
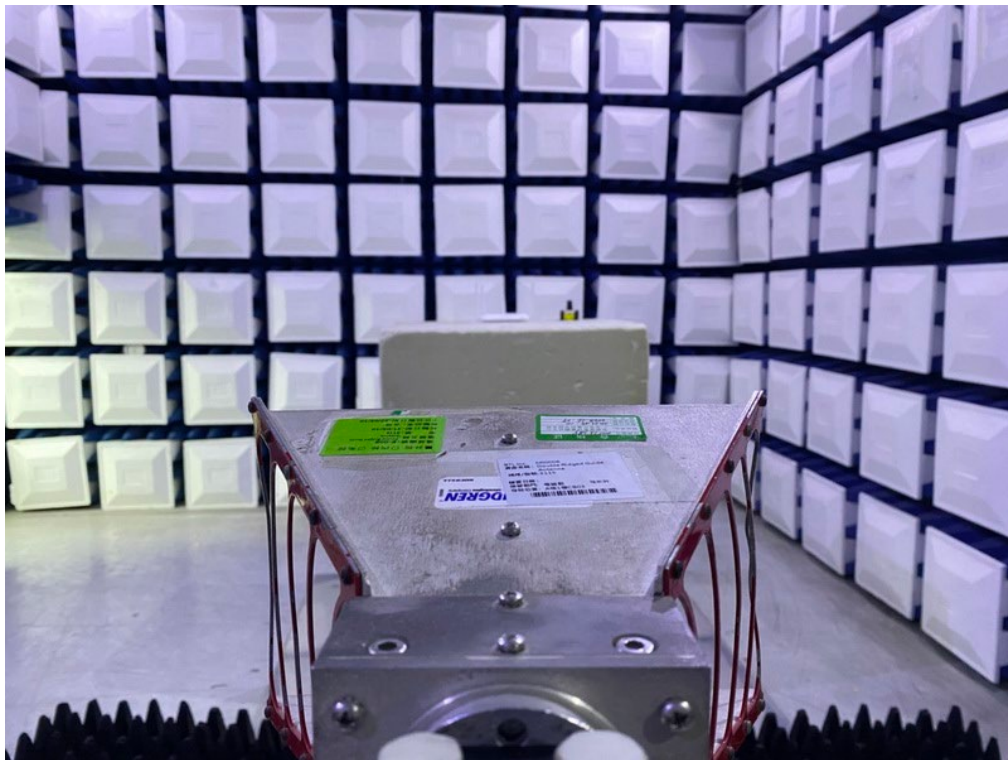
Radiated Emissions Test Photos

30 MHz to 1 GHz

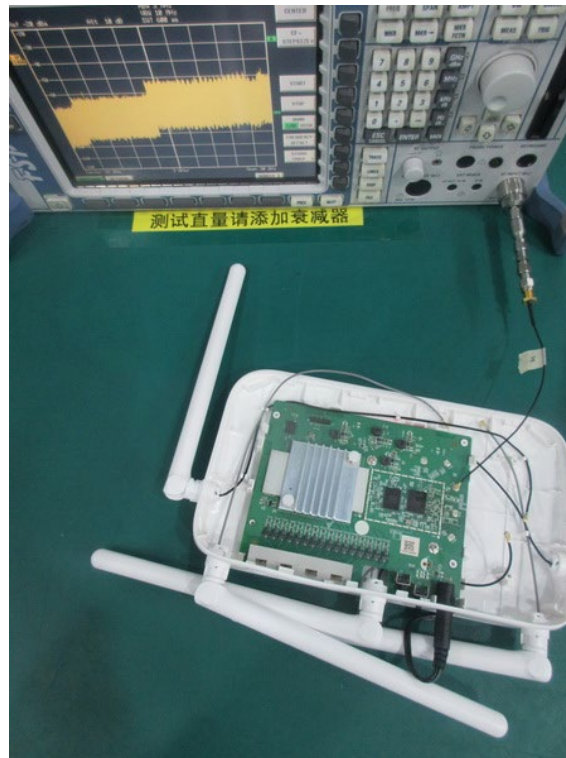


Radiated Emissions Test Photos

Above 1 GHz

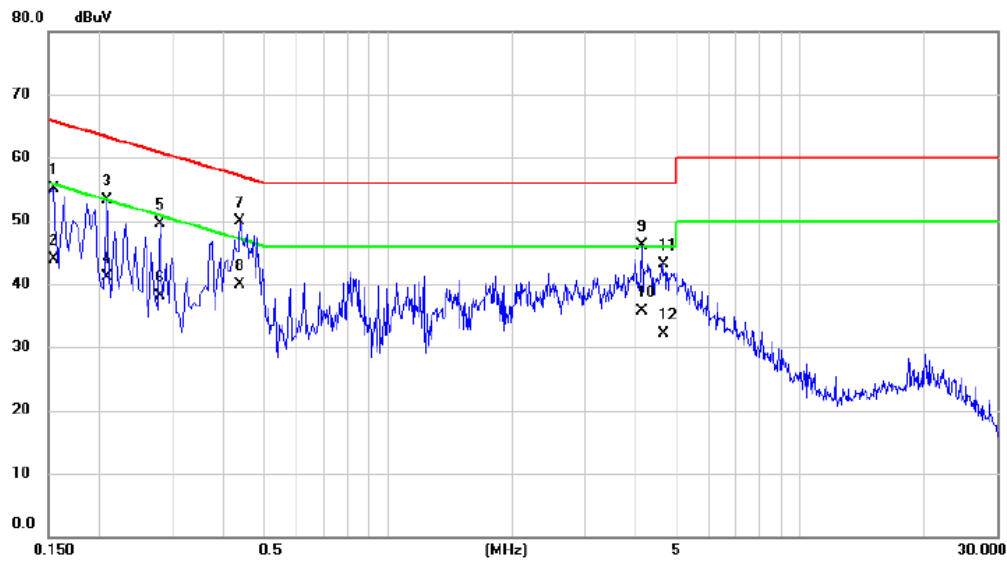


Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Phase	Line
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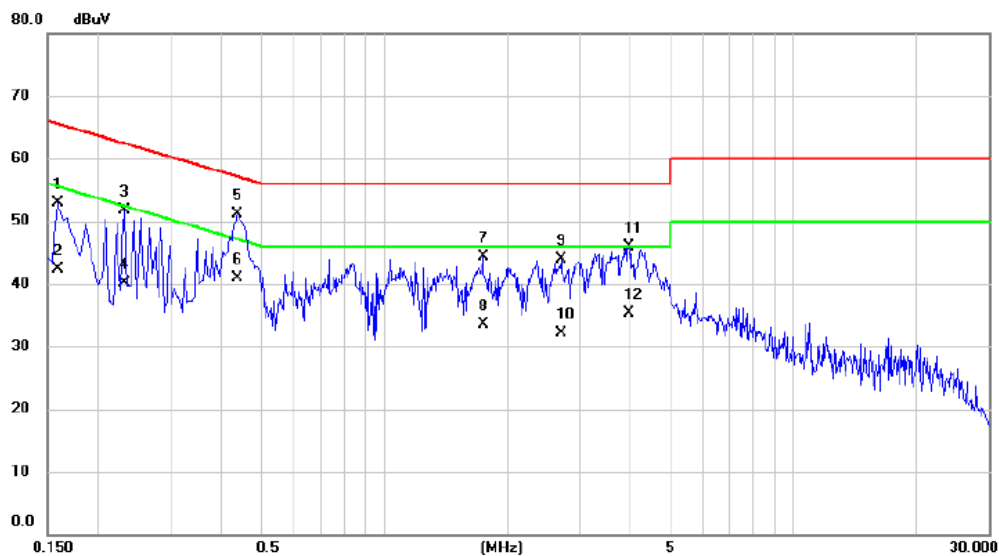


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	45.41	9.66	55.07	65.75	-10.68	QP	
2	0.1545	34.20	9.66	43.86	55.75	-11.89	AVG	
3	0.2085	43.57	9.69	53.26	63.26	-10.00	QP	
4	0.2085	31.50	9.69	41.19	53.26	-12.07	AVG	
5	0.2805	39.88	9.72	49.60	60.80	-11.20	QP	
6	0.2805	28.30	9.72	38.02	50.80	-12.78	AVG	
7 *	0.4380	40.10	9.76	49.86	57.10	-7.24	QP	
8	0.4380	30.10	9.76	39.86	47.10	-7.24	AVG	
9	4.1325	36.07	10.06	46.13	56.00	-9.87	QP	
10	4.1325	25.60	10.06	35.66	46.00	-10.34	AVG	
11	4.6635	33.05	10.10	43.15	56.00	-12.85	QP	
12	4.6635	22.10	10.10	32.20	46.00	-13.80	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Phase	Neutral
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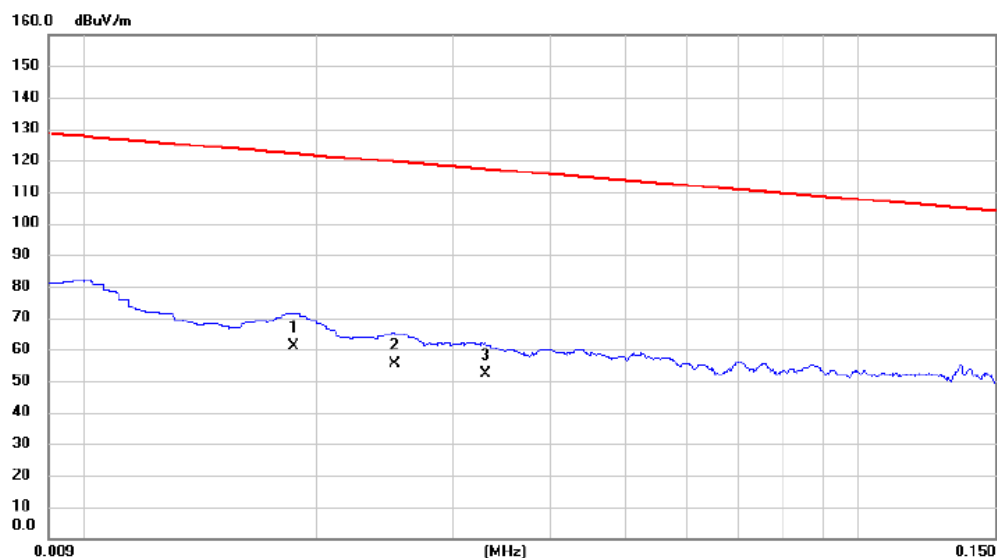
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	43.15	9.71	52.86	65.52	-12.66	QP	
2		0.1590	32.50	9.71	42.21	55.52	-13.31	AVG	
3		0.2310	41.98	9.74	51.72	62.41	-10.69	QP	
4		0.2310	30.40	9.74	40.14	52.41	-12.27	AVG	
5	*	0.4380	41.38	9.79	51.17	57.10	-5.93	QP	
6		0.4380	31.20	9.79	40.99	47.10	-6.11	AVG	
7		1.7430	34.41	9.90	44.31	56.00	-11.69	QP	
8		1.7430	23.60	9.90	33.50	46.00	-12.50	AVG	
9		2.7015	33.89	9.97	43.86	56.00	-12.14	QP	
10		2.7015	22.10	9.97	32.07	46.00	-13.93	AVG	
11		3.9570	35.89	10.08	45.97	56.00	-10.03	QP	
12		3.9570	25.30	10.08	35.38	46.00	-10.62	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Polarization	Ant 0°
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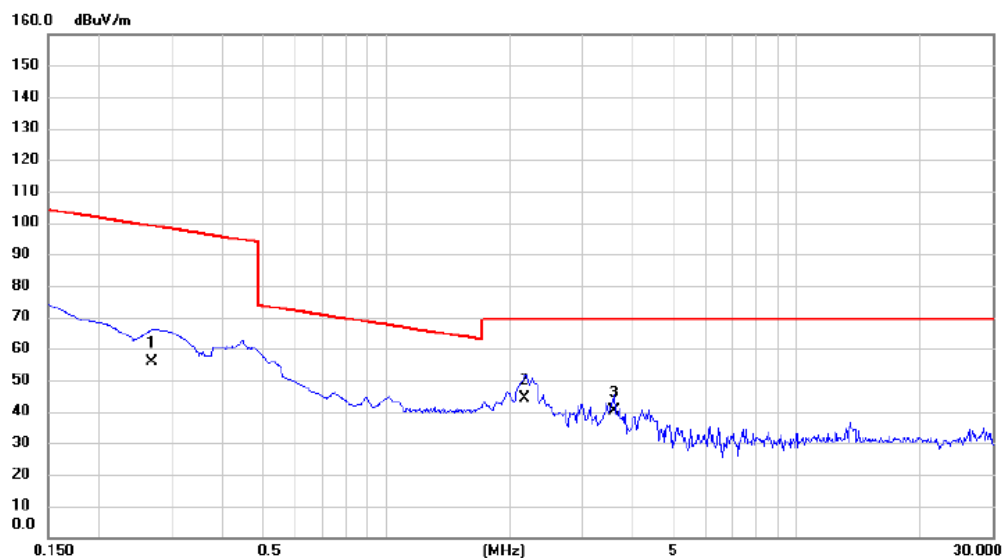


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0187	46.22	14.70	60.92	122.17	-61.25	AVG	
2		0.0252	41.25	14.17	55.42	119.58	-64.16	AVG	
3		0.0330	38.36	13.99	52.35	117.23	-64.88	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Polarization	Ant 0°
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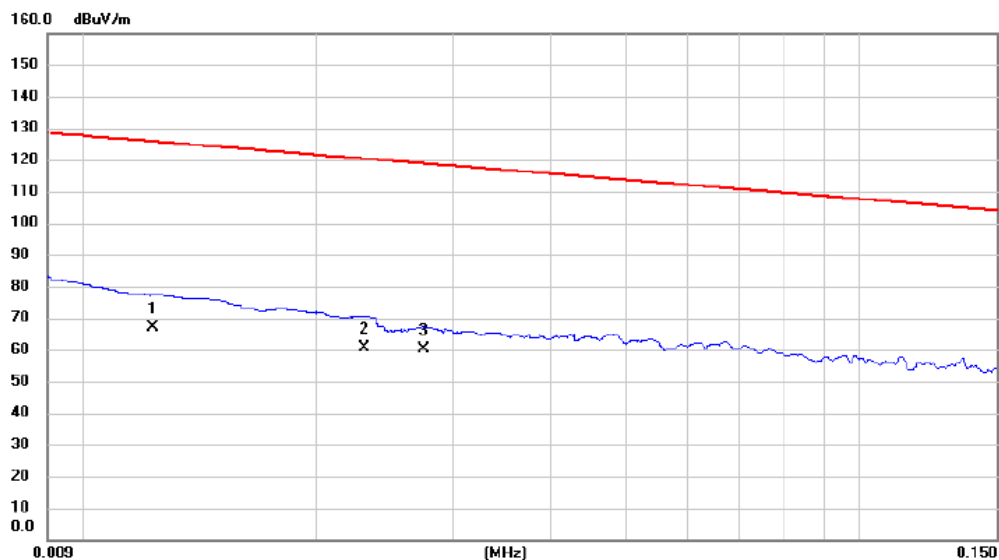


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2691	42.22	13.58	55.80	99.01	-43.21	AVG	
2	*	2.1798	32.12	12.02	44.14	69.54	-25.40	QP	
3		3.5825	28.63	11.72	40.35	69.54	-29.19	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Polarization	Ant 90°
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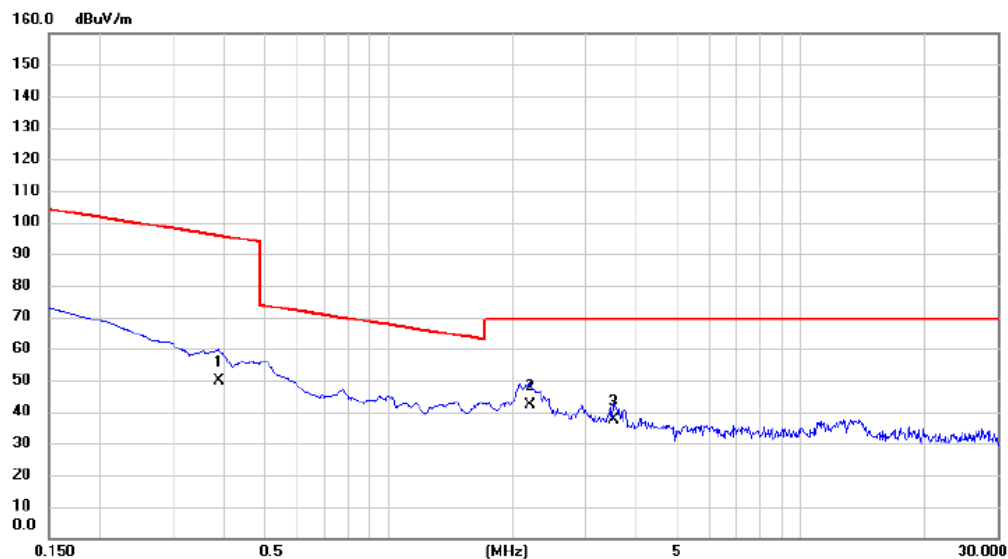
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0123	50.11	16.71	66.82	125.81	-58.99	AVG	
2		0.0230	46.25	14.22	60.47	120.37	-59.90	AVG	
3	*	0.0275	46.25	14.12	60.37	118.82	-58.45	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Polarization	Ant 90°
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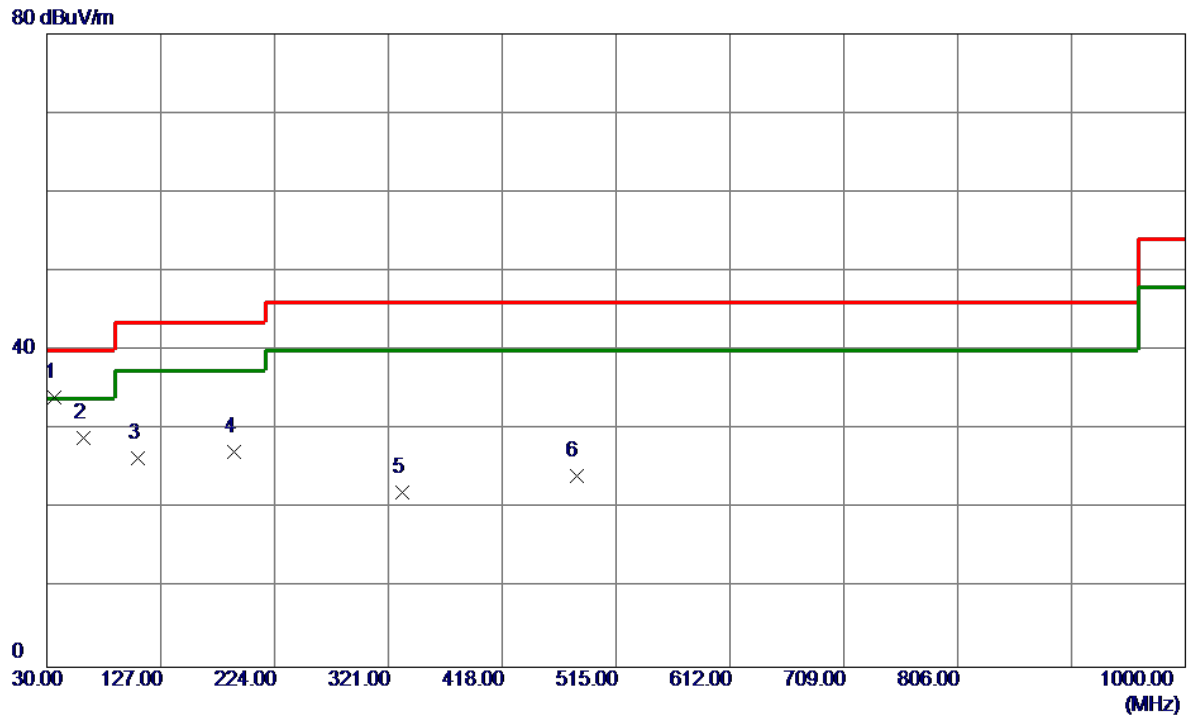
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3886	36.23	13.47	49.70	95.81	-46.11	AVG	
2 *	2.2096	30.12	12.01	42.13	69.54	-27.41	QP	
3	3.5230	25.85	11.72	37.57	69.54	-31.97	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Polarization	Vertical
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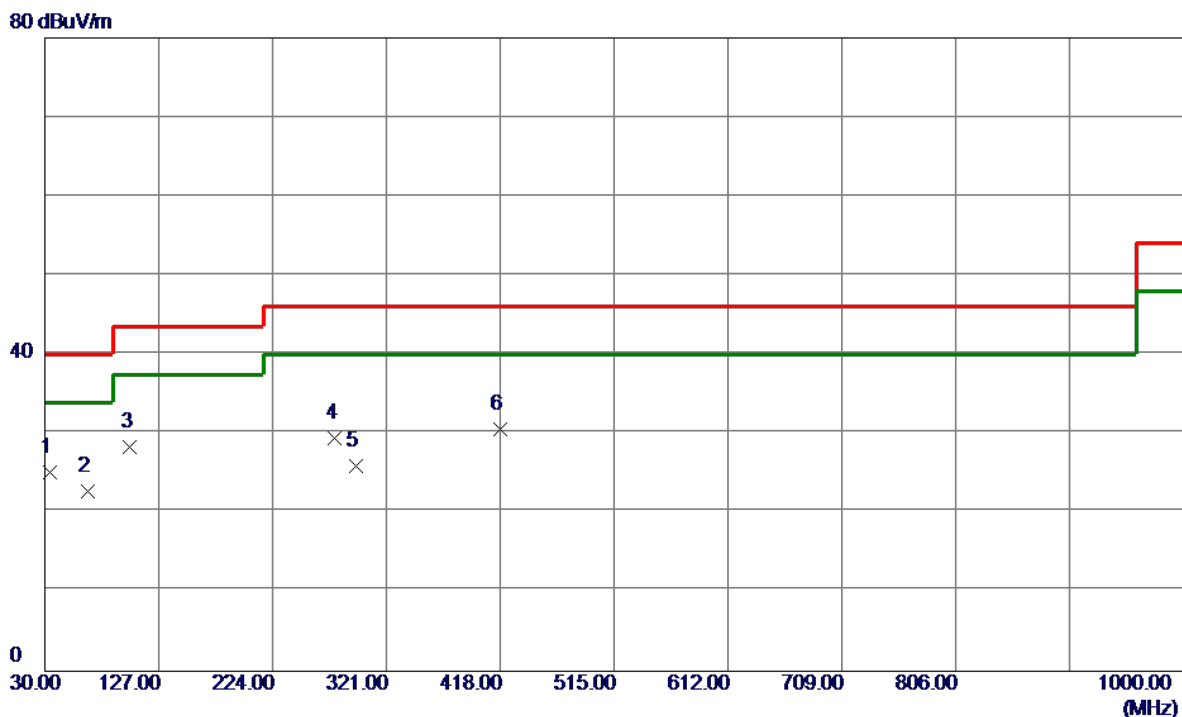


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	36.7900	48.91	-14.80	34.11	40.00	-5.89	QP	
2	61.0400	43.54	-14.63	28.91	40.00	-11.09	Peak	
3	107.6000	41.76	-15.40	26.36	43.50	-17.14	Peak	
4	189.0800	41.96	-14.82	27.14	43.50	-16.36	Peak	
5	332.6400	32.32	-10.29	22.03	46.00	-23.97	Peak	
6	481.0500	31.08	-6.87	24.21	46.00	-21.79	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AC(VHT40) Mode Channel 159 (UNII-3)	Polarization	Horizontal
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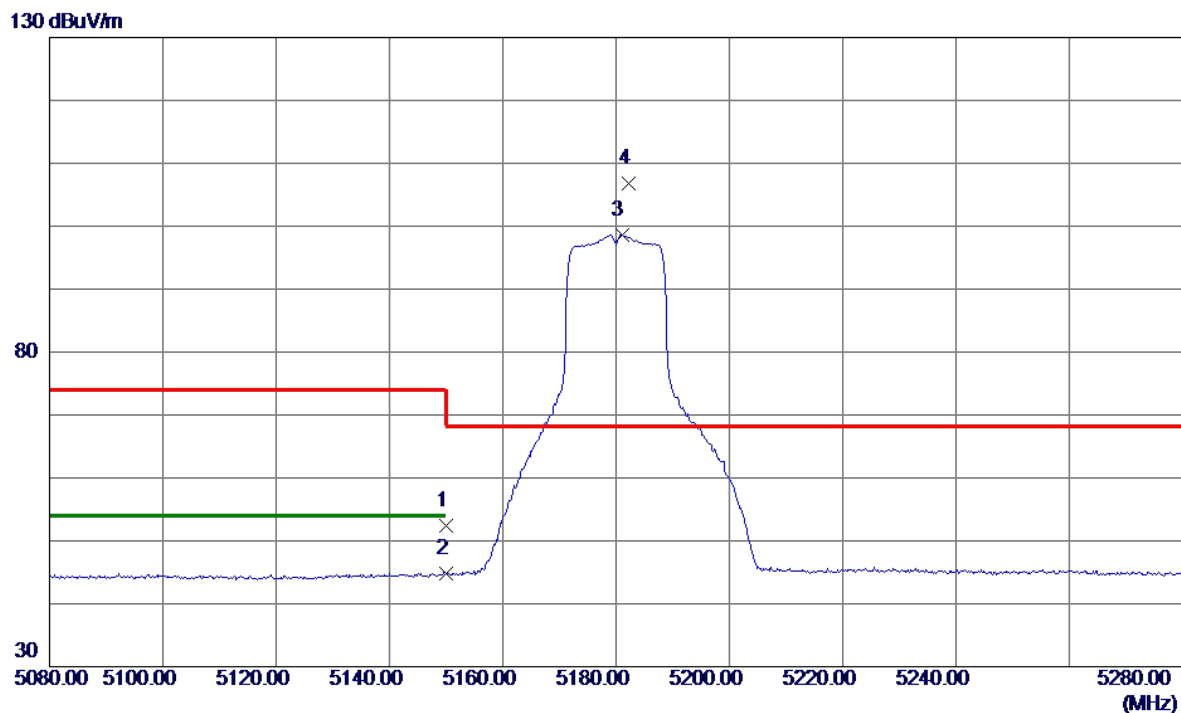
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	33.8800	40.26	-15.08	25.18	40.00	-14.82	Peak	
2	66.8600	38.38	-15.59	22.79	40.00	-17.21	Peak	
3	102.7500	44.39	-16.13	28.26	43.50	-15.24	Peak	
4	277.3500	41.23	-11.73	29.50	46.00	-16.50	Peak	
5	294.8100	36.93	-11.06	25.87	46.00	-20.13	Peak	
6	418.0000	38.86	-8.28	30.58	46.00	-15.42	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical
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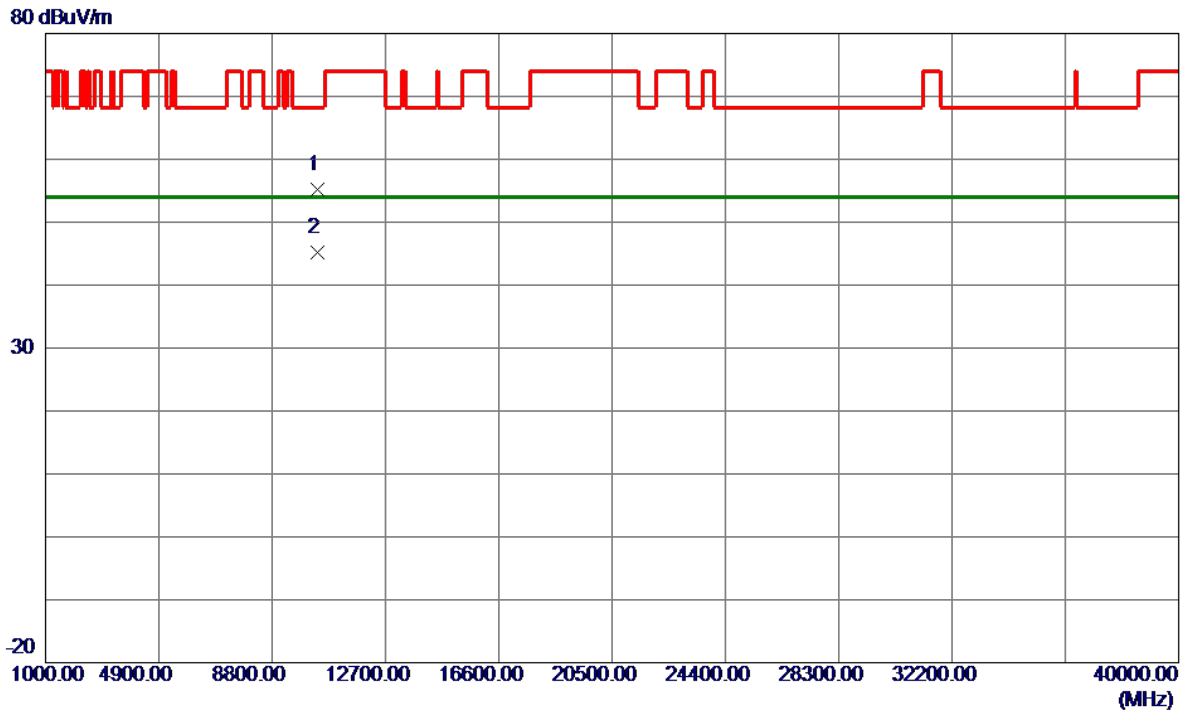


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.36	15.08	52.44	74.00	-21.56	Peak	
2	5150.0000	29.72	15.08	44.80	54.00	-9.20	AVG	
3	5181.0000	83.51	15.18	98.69	999.00	-900.31	AVG	No Limit
4 *	5182.2000	91.54	15.18	106.72	68.20	38.52	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical
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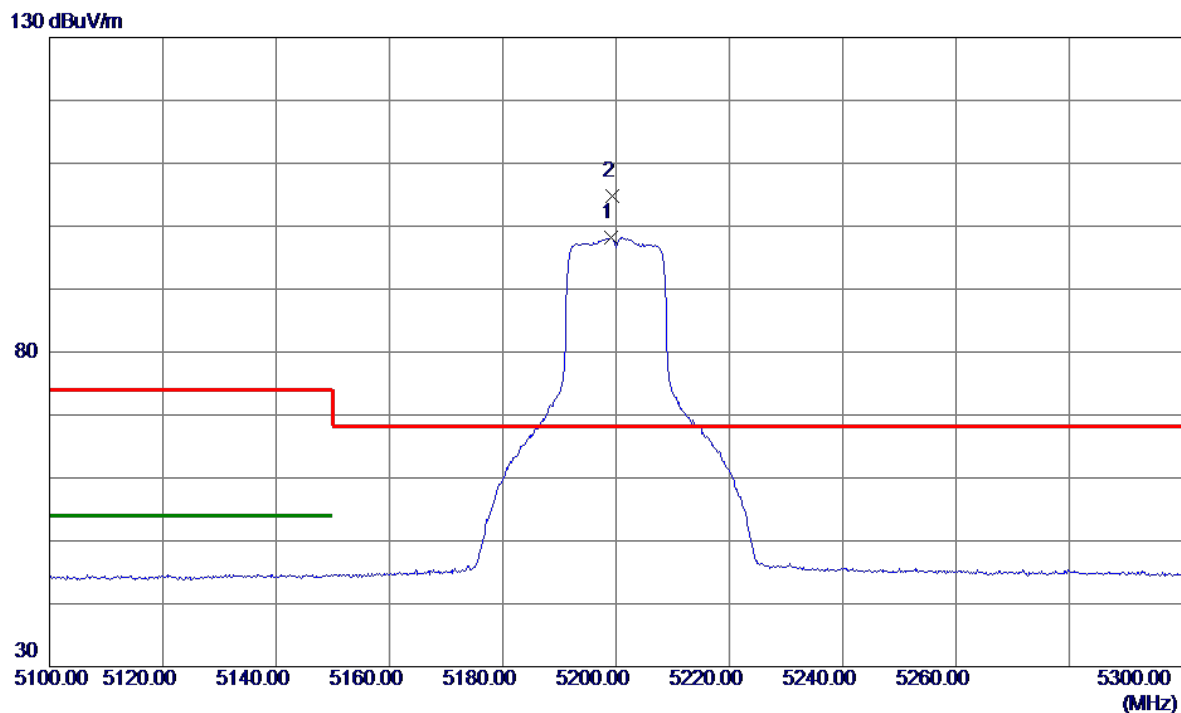


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10358.4000	43.02	12.13	55.15	68.20	-13.05	Peak	
2 *	10360.1000	33.12	12.13	45.25	54.00	-8.75	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical
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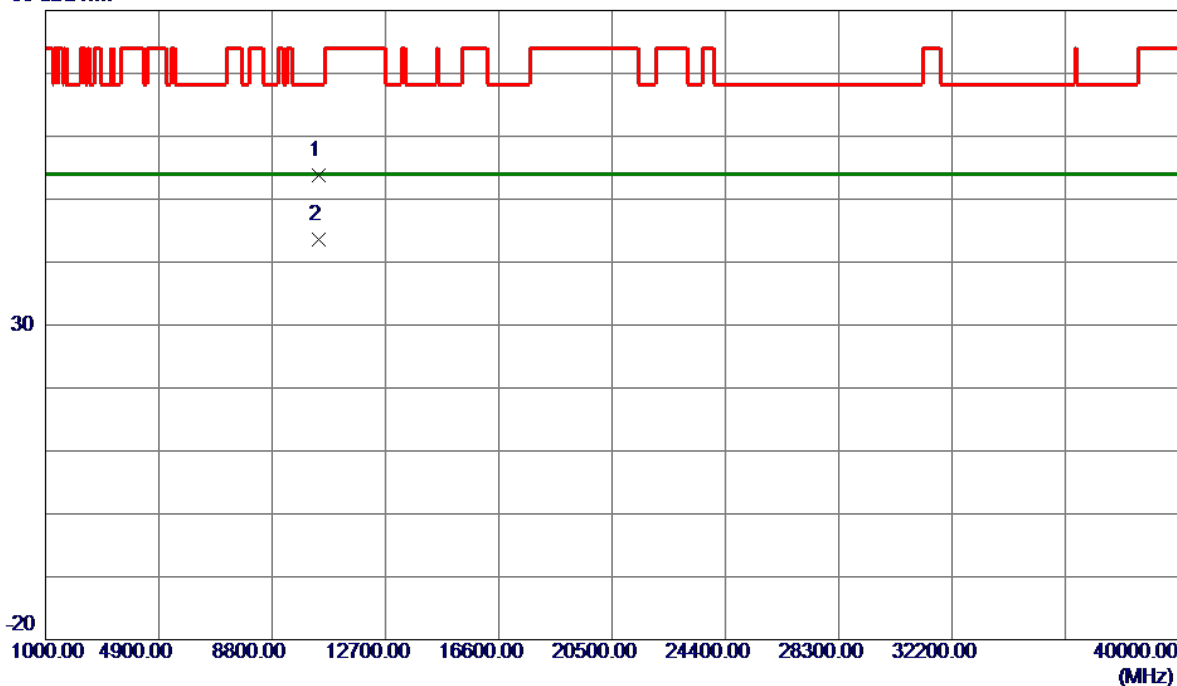
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5199.2000	82.97	15.24	98.21	999.00	-900.79	AVG	No Limit
2 *	5199.4000	89.52	15.24	104.76	68.20	36.56	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical
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80 dBuV/m



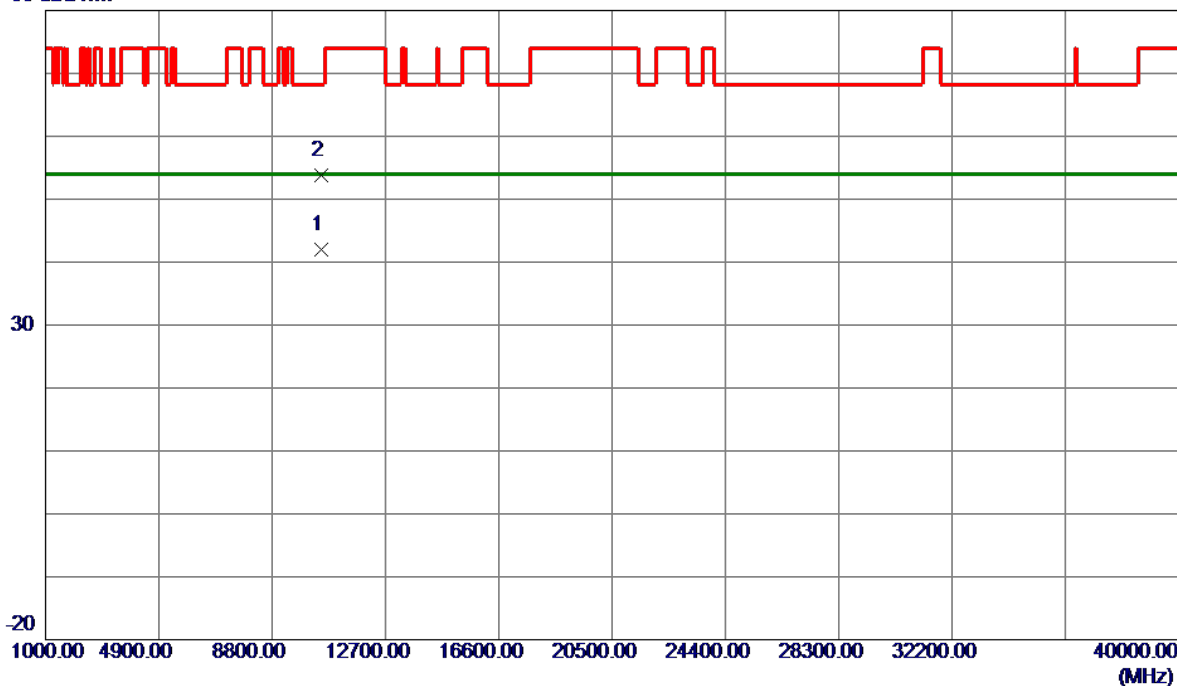
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10396.3500	41.62	12.17	53.79	68.20	-14.41	Peak	
2 *	10399.4500	31.42	12.17	43.59	54.00	-10.41	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical
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80 dBuV/m

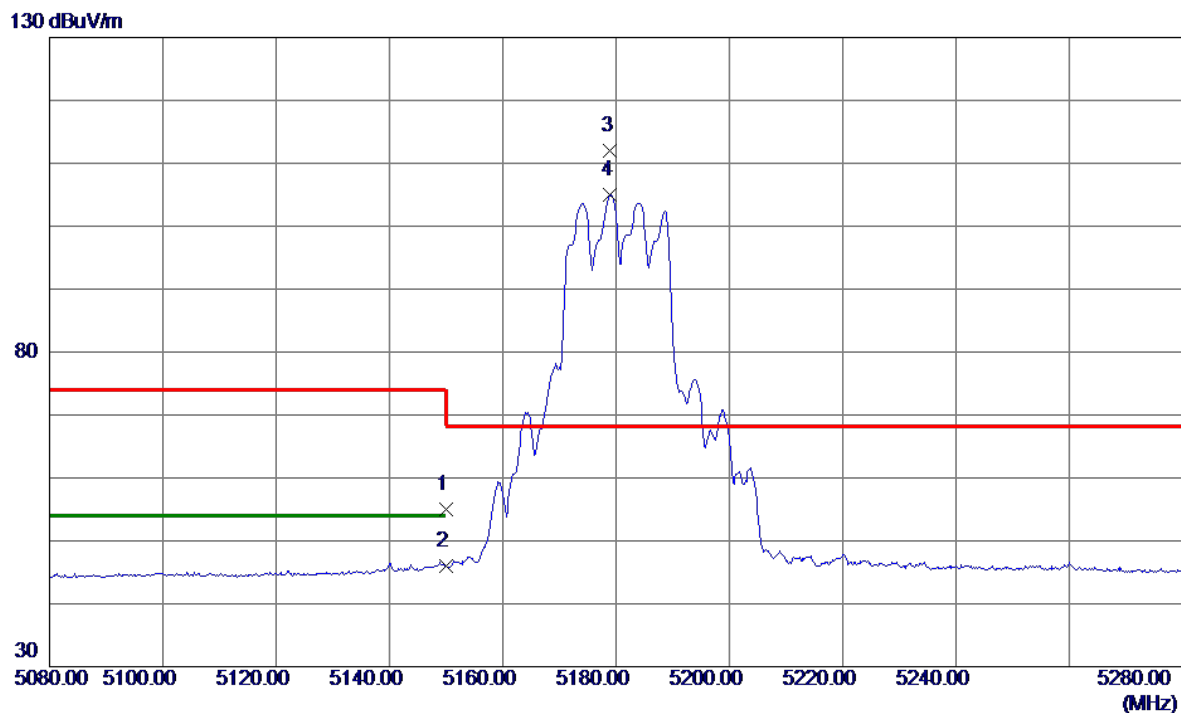


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10481.5500	29.69	12.26	41.95	54.00	-12.05	AVG	
2	10483.6500	41.55	12.26	53.81	68.20	-14.39	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical
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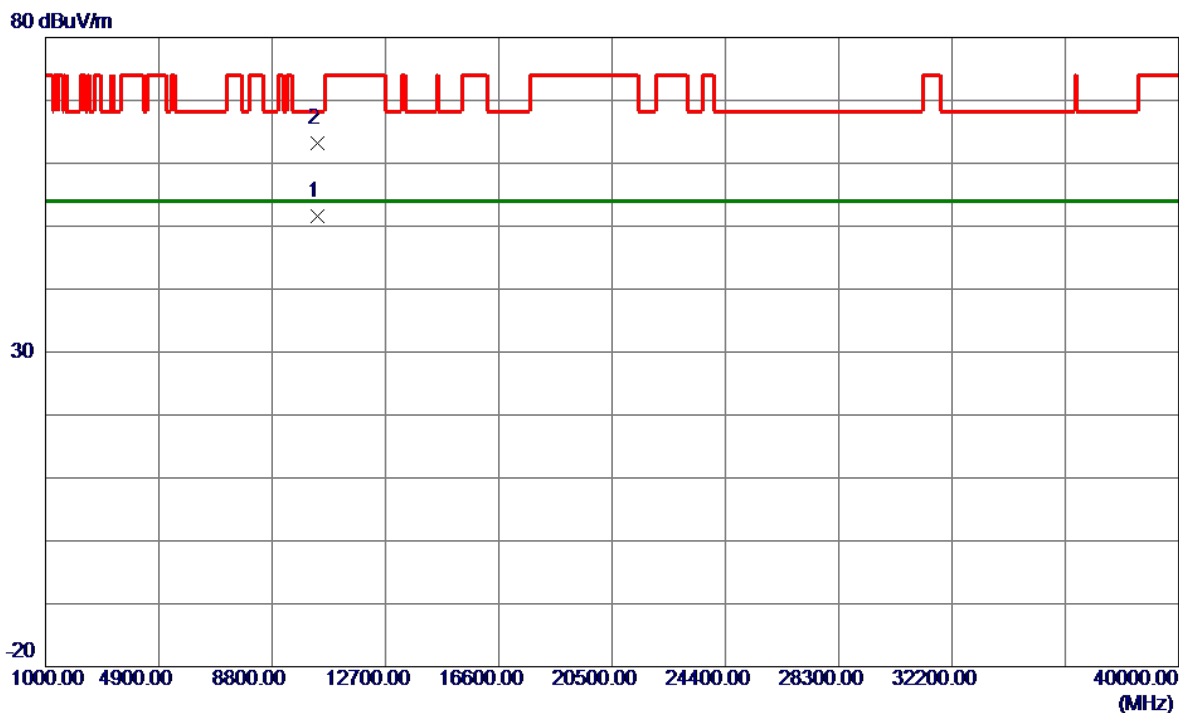


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	39.84	15.08	54.92	74.00	-19.08	Peak	
2	5150.0000	30.93	15.08	46.01	54.00	-7.99	AVG	
3 *	5179.0000	96.86	15.17	112.03	68.20	43.83	Peak	No Limit
4	5179.0000	89.82	15.17	104.99	999.00	-894.01	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical
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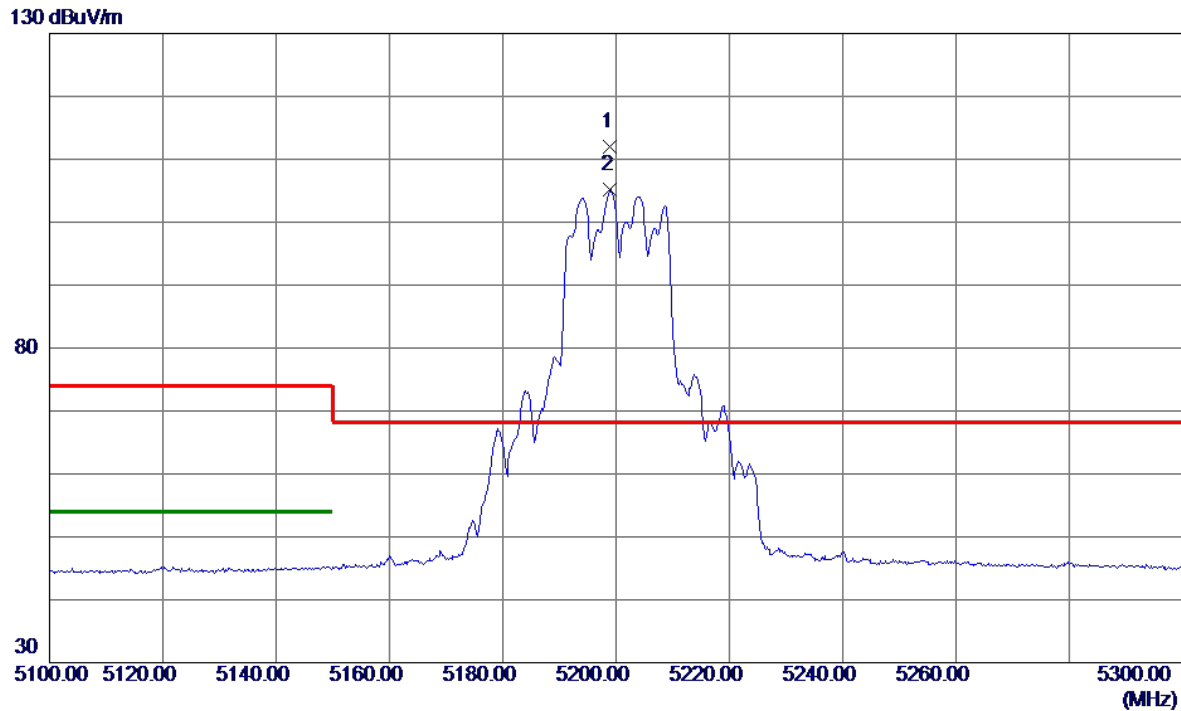


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10358.4500	39.56	12.13	51.69	54.00	-2.31	AVG	
2	10358.5500	51.06	12.13	63.19	68.20	-5.01	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical
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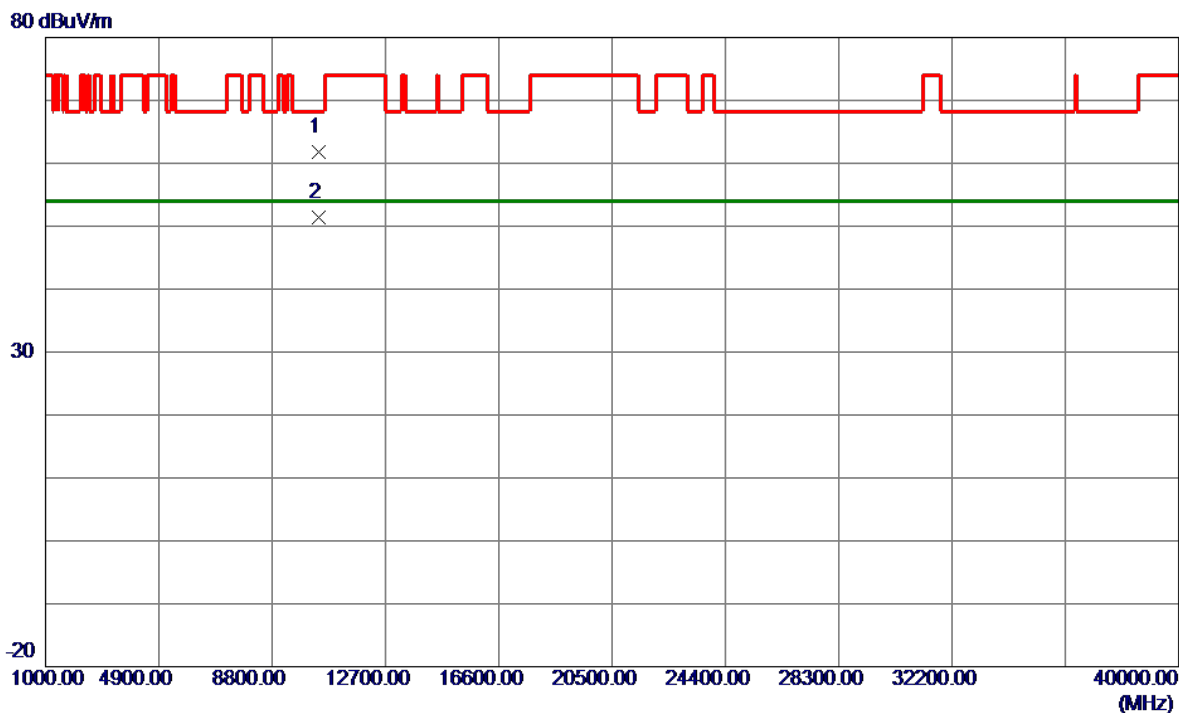


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5199.0000	96.71	15.23	111.94	68.20	43.74	Peak	No Limit
2	5199.0000	89.88	15.23	105.11	999.00	-893.89	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical
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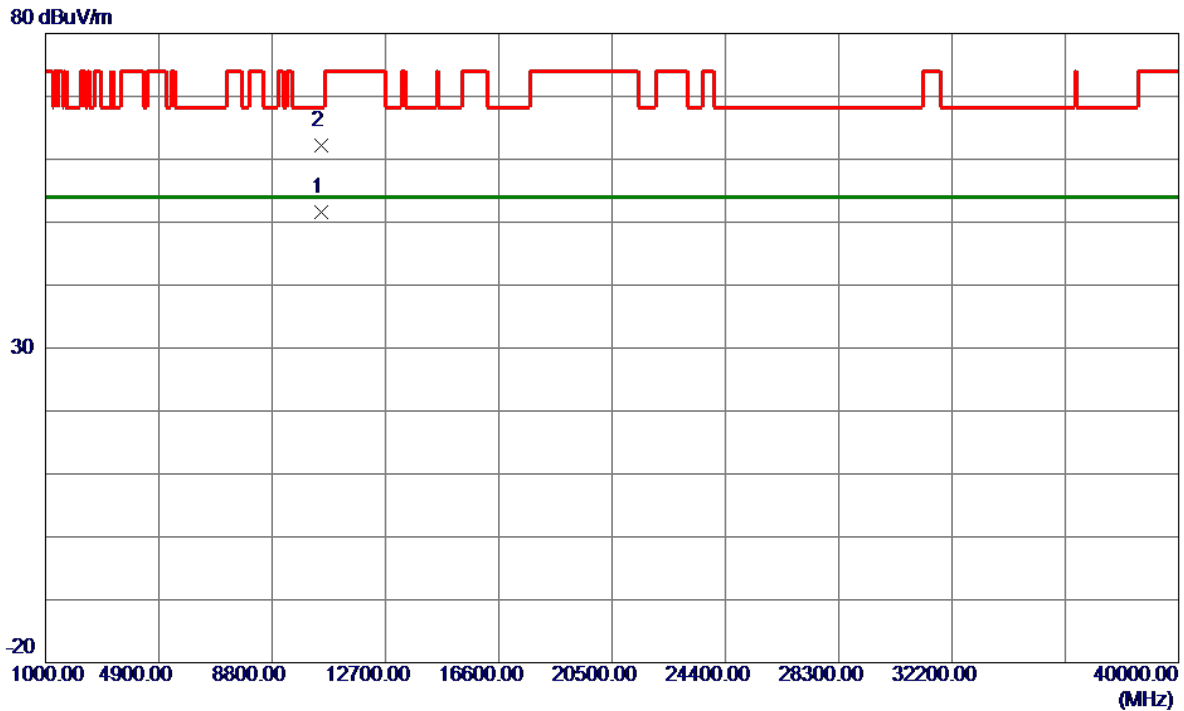


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10403.4500	49.57	12.18	61.75	68.20	-6.45	Peak	
2 *	10403.7500	39.27	12.18	51.45	54.00	-2.55	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Vertical
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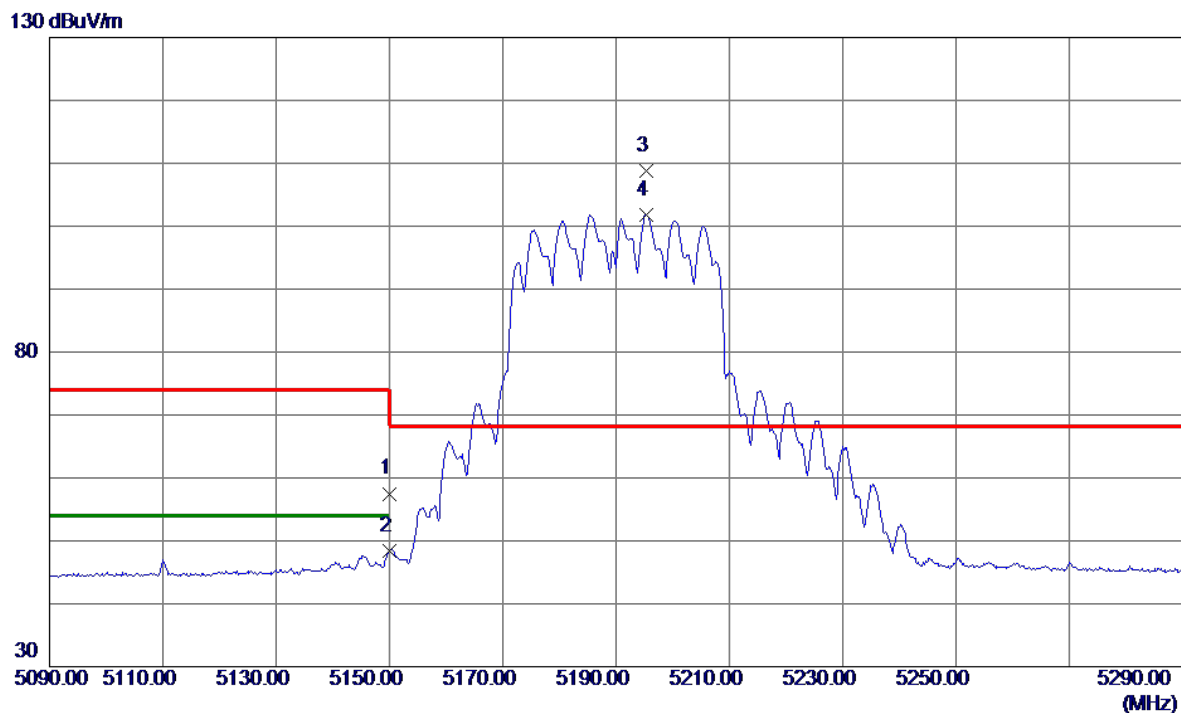


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10479.2500	39.42	12.25	51.67	54.00	-2.33	AVG	
2	10481.6000	49.93	12.26	62.19	68.20	-6.01	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical
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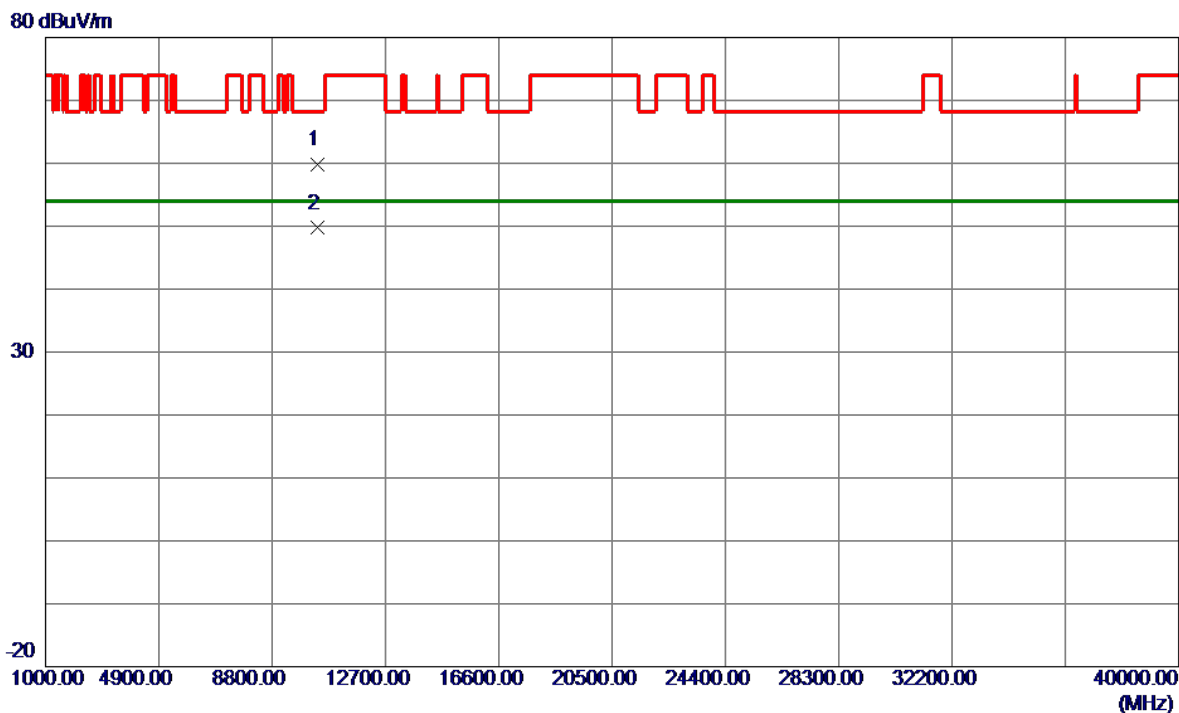


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.42	15.08	57.50	74.00	-16.50	Peak	
2	5150.0000	33.33	15.08	48.41	54.00	-5.59	AVG	
3 *	5195.4000	93.67	15.22	108.89	68.20	40.69	Peak	No Limit
4	5195.4000	86.63	15.22	101.85	999.00	-897.15	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical
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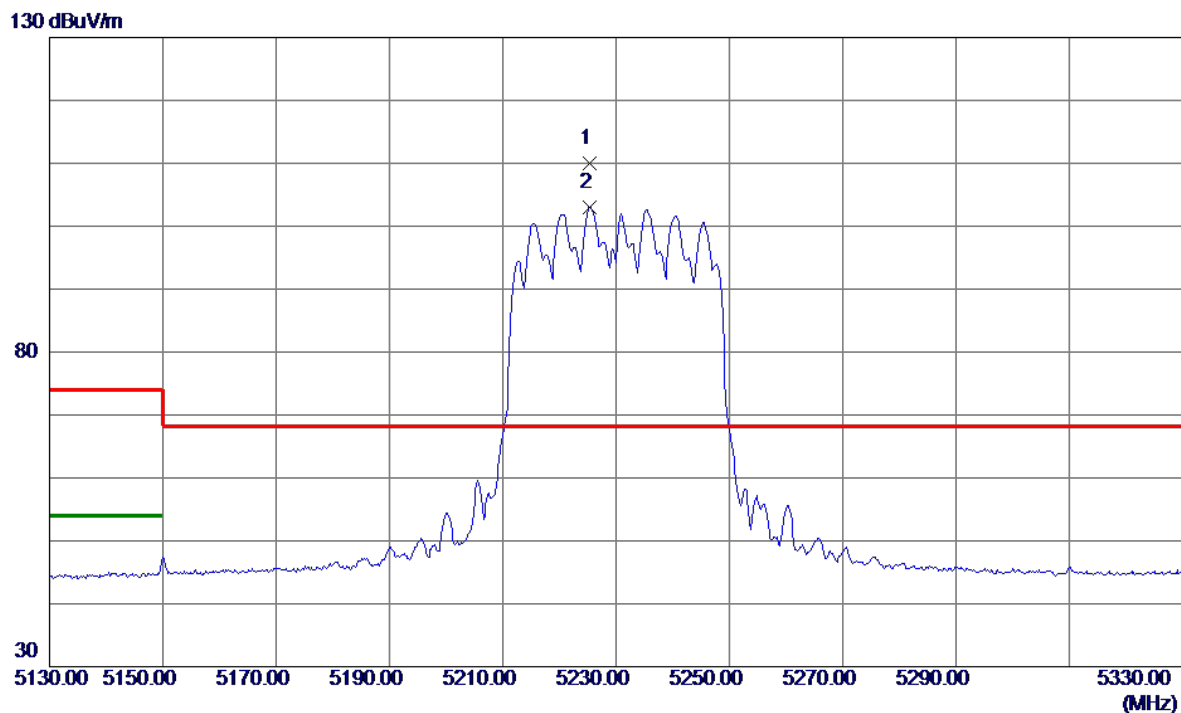


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10376.6400	47.69	12.15	59.84	68.20	-8.36	Peak	
2 *	10378.4200	37.55	12.15	49.70	54.00	-4.30	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical
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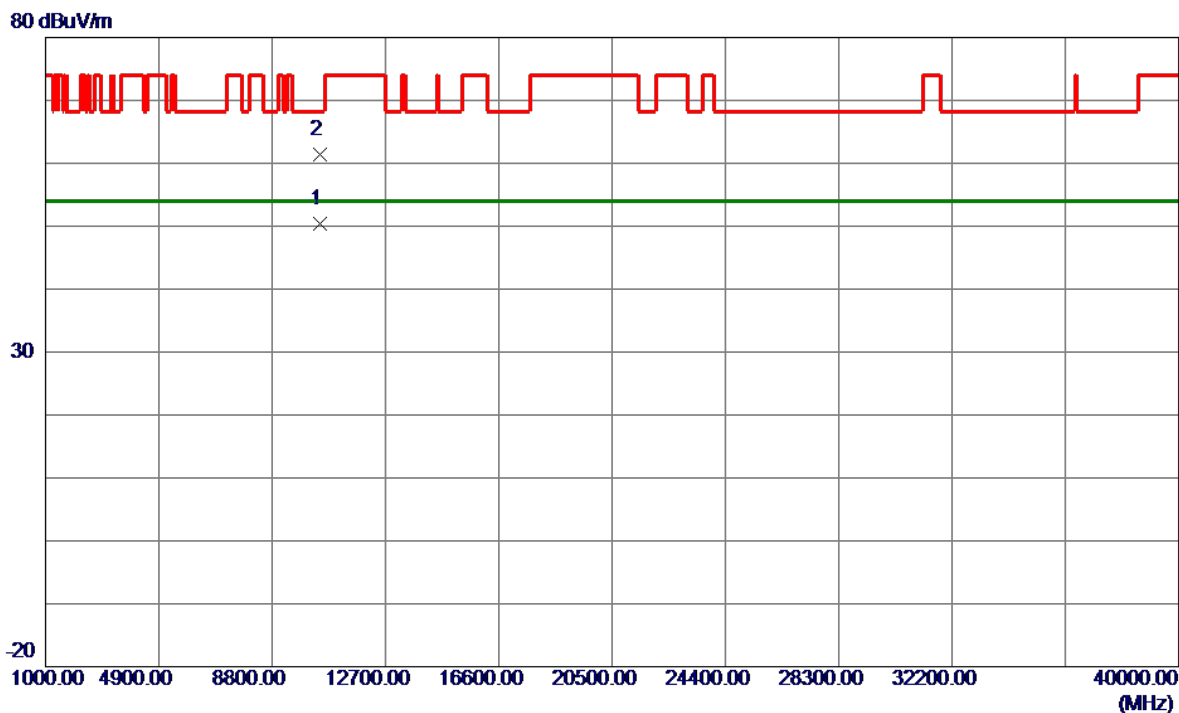


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5225.4000	94.60	15.32	109.92	68.20	41.72	Peak	No Limit
2	5225.4000	87.71	15.32	103.03	999.00	-895.97	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical
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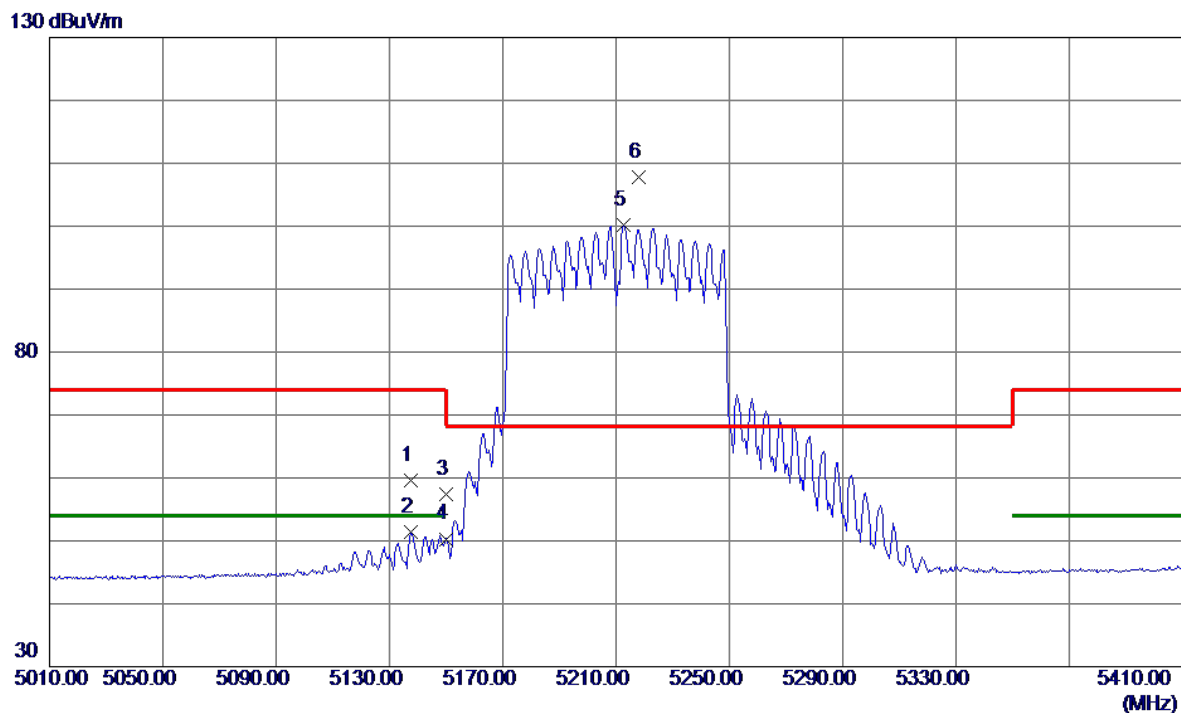


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10458.8000	38.16	12.23	50.39	54.00	-3.61	AVG	
2	10459.4000	49.15	12.23	61.38	68.20	-6.82	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical
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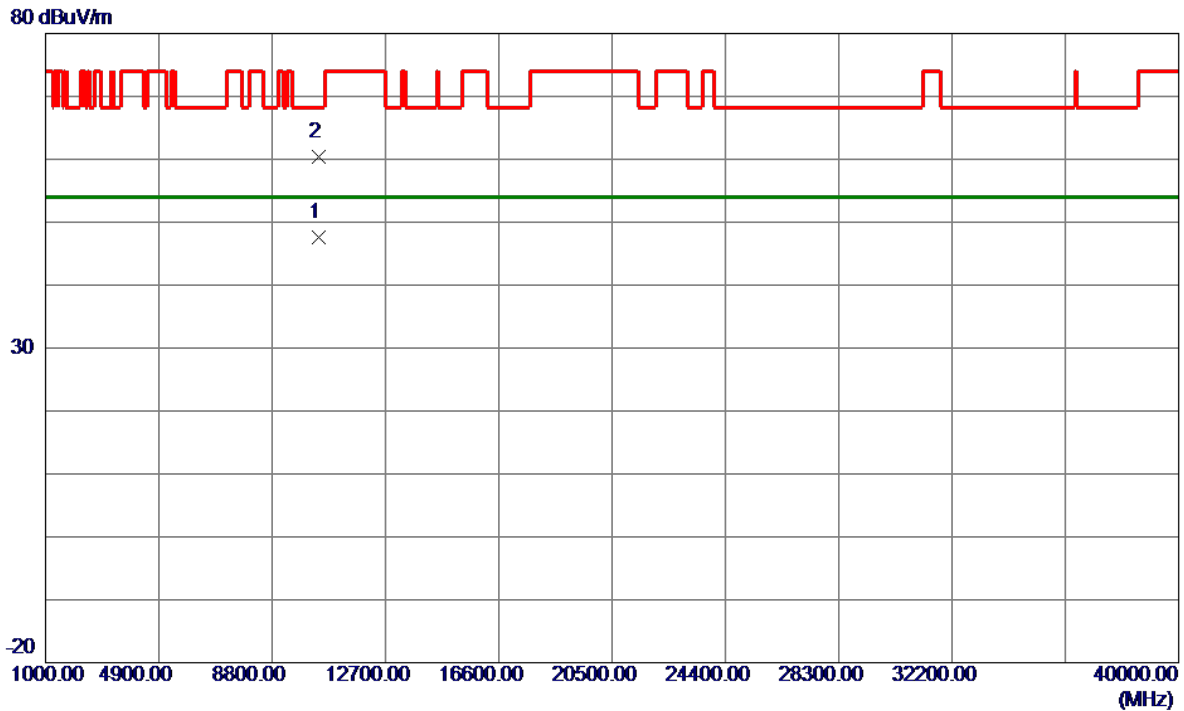


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5137.6000	44.48	15.05	59.53	74.00	-14.47	Peak	
2	5137.6000	36.32	15.05	51.37	54.00	-2.63	AVG	
3	5150.0000	42.28	15.08	57.36	74.00	-16.64	Peak	
4	5150.0000	35.22	15.08	50.30	54.00	-3.70	AVG	
5	5212.8000	84.97	15.28	100.25	999.00	-898.75	AVG	No Limit
6 *	5218.0000	92.59	15.29	107.88	68.20	39.68	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical
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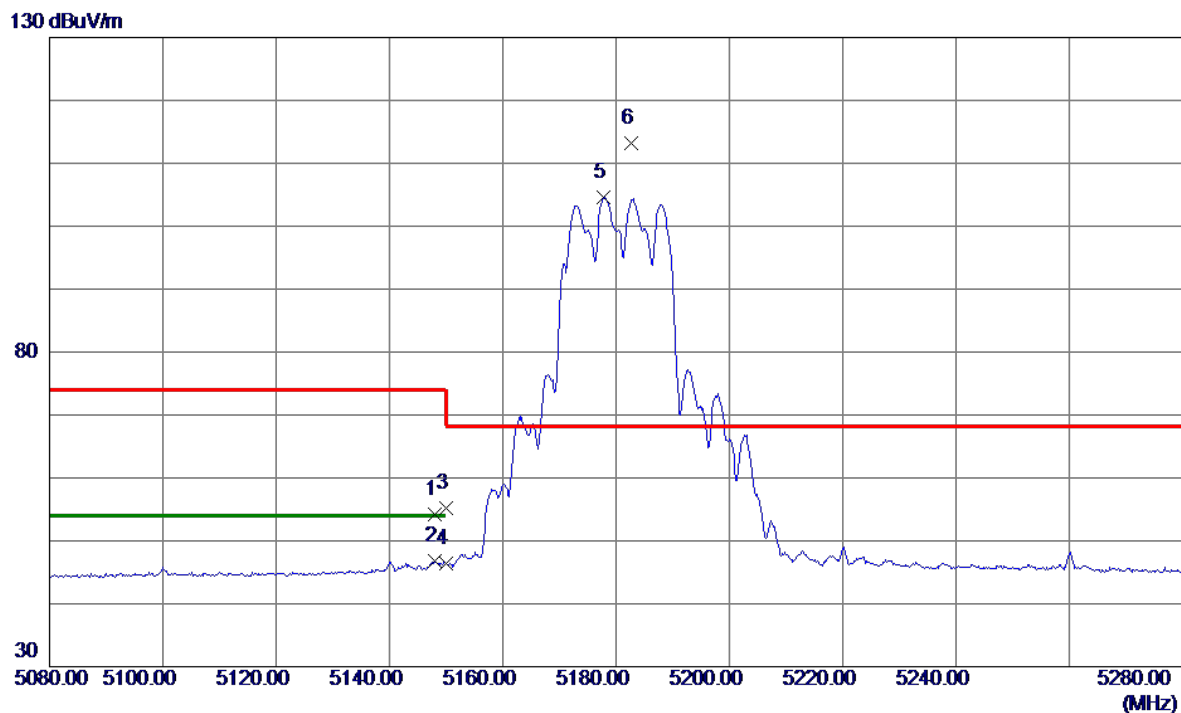


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10421.2000	35.32	12.19	47.51	54.00	-6.49	AVG	
2	10424.1200	48.19	12.20	60.39	68.20	-7.81	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5180 MHz	Polarization	Vertical
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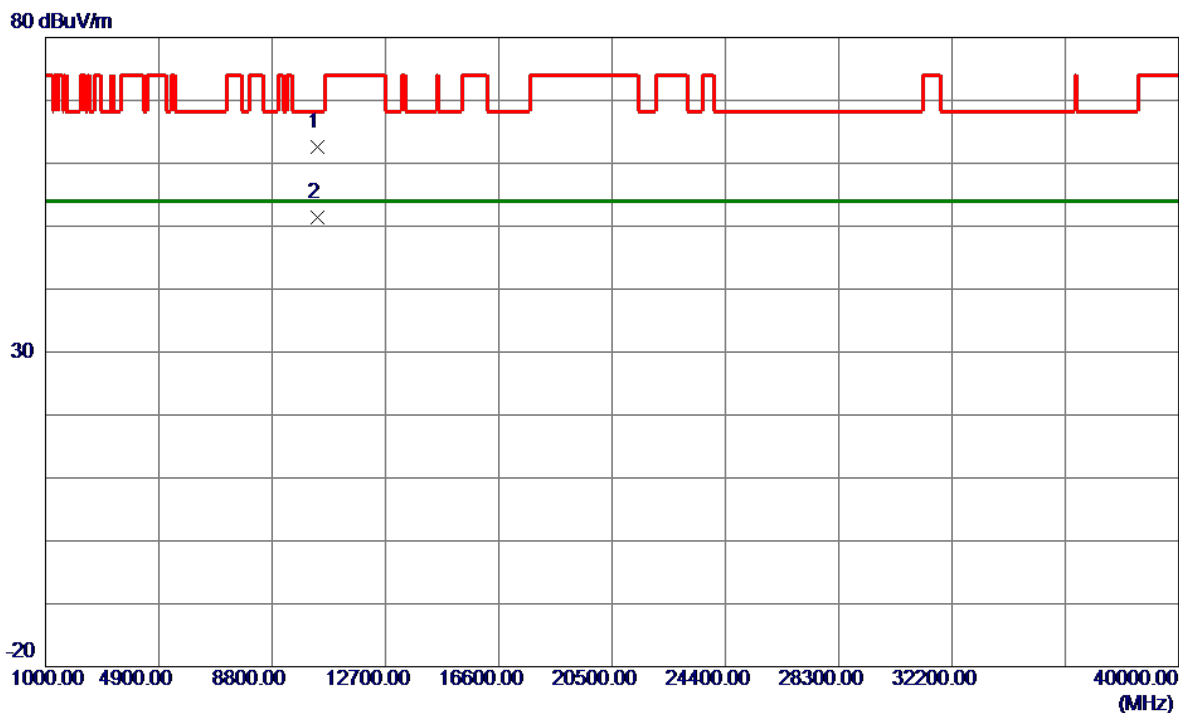


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5148.0000	39.18	15.08	54.26	74.00	-19.74	Peak	
2	5148.0000	31.73	15.08	46.81	54.00	-7.19	AVG	
3	5150.0000	40.12	15.08	55.20	74.00	-18.80	Peak	
4	5150.0000	31.32	15.08	46.40	54.00	-7.60	AVG	
5	5177.8000	89.37	15.17	104.54	999.00	-894.46	AVG	No Limit
6 *	5182.6000	98.07	15.18	113.25	68.20	45.05	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5180 MHz	Polarization	Vertical
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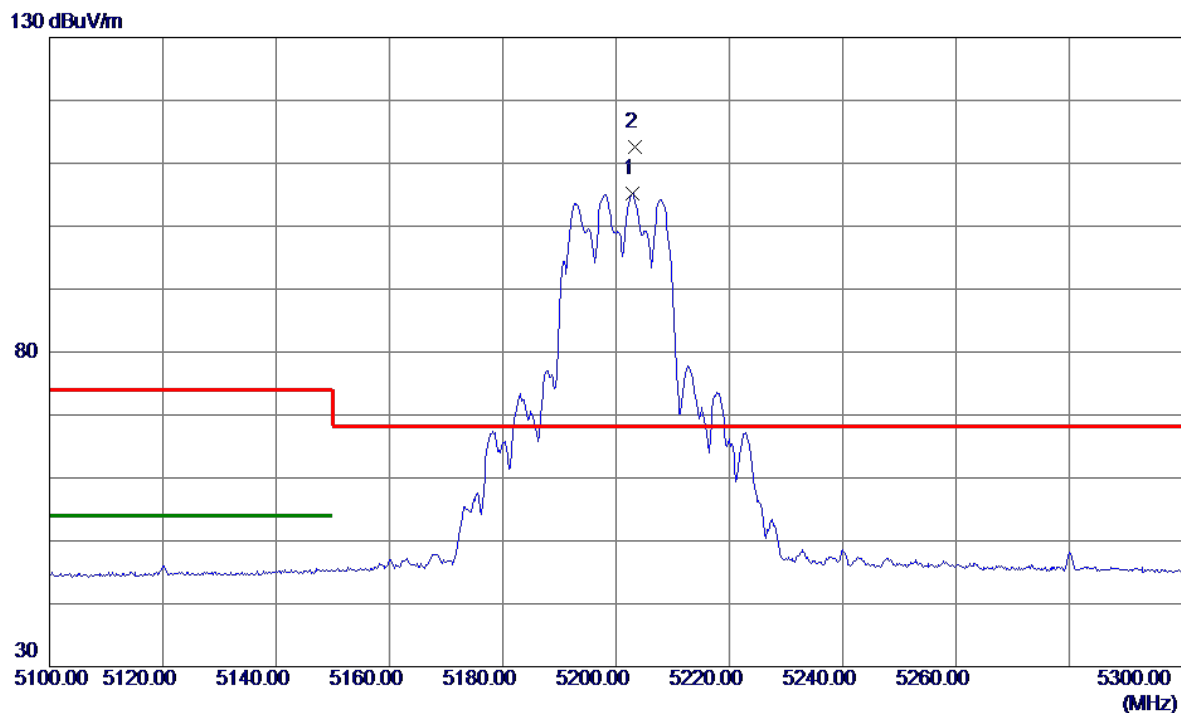


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10358.3800	50.40	12.13	62.53	68.20	-5.67	Peak	
2 *	10358.4600	39.26	12.13	51.39	54.00	-2.61	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5200 MHz	Polarization	Vertical
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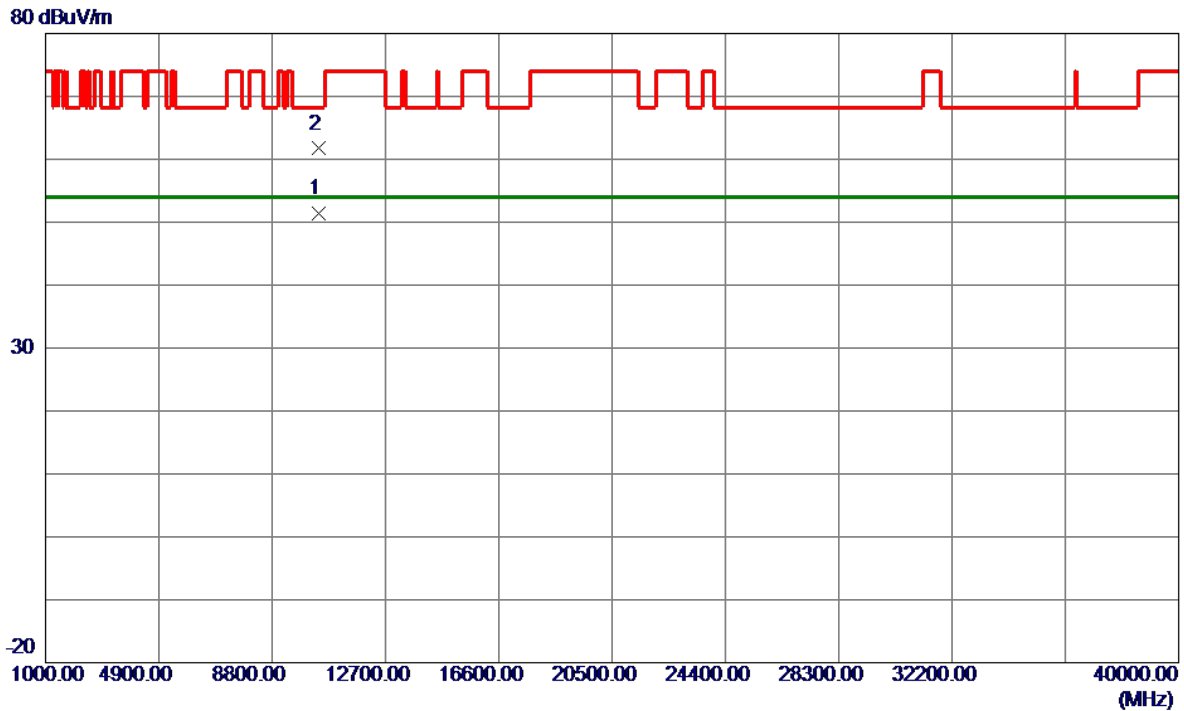


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5202.8000	89.98	15.25	105.23	999.00	-893.77	AVG	No Limit
2 *	5203.4000	97.36	15.25	112.61	68.20	44.41	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5200 MHz	Polarization	Vertical
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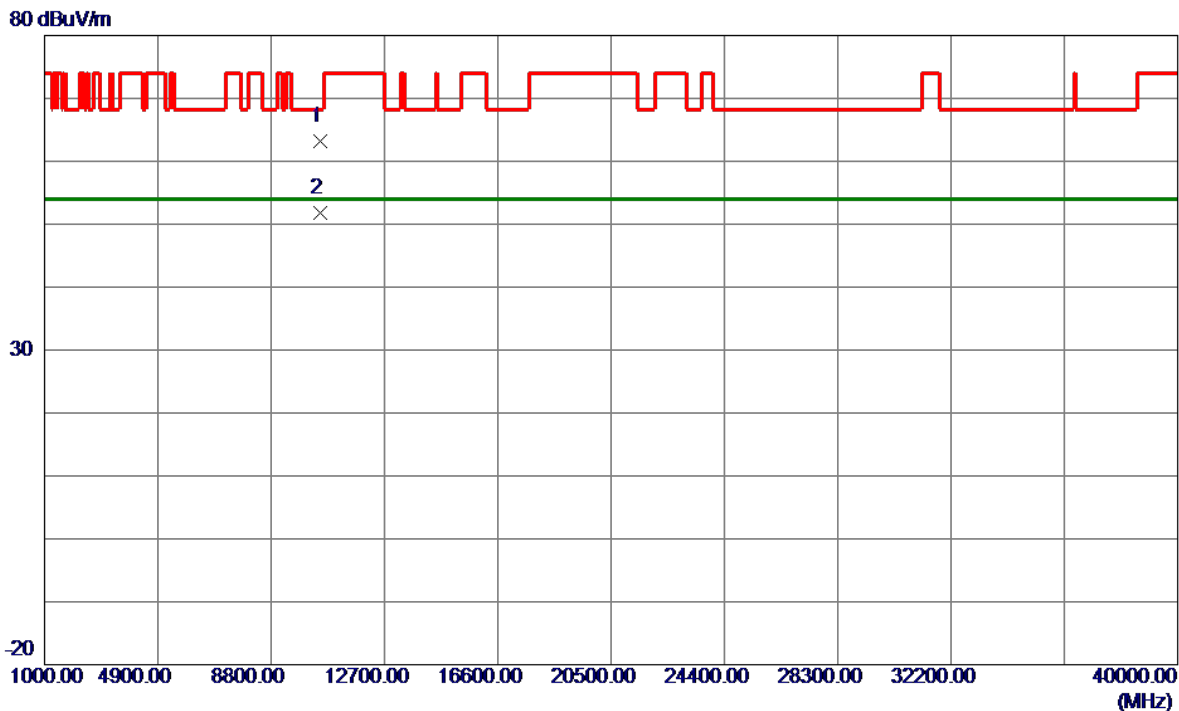


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10398.4000	39.23	12.17	51.40	54.00	-2.60	AVG	
2	10398.8400	49.53	12.17	61.70	68.20	-6.50	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5240 MHz	Polarization	Vertical
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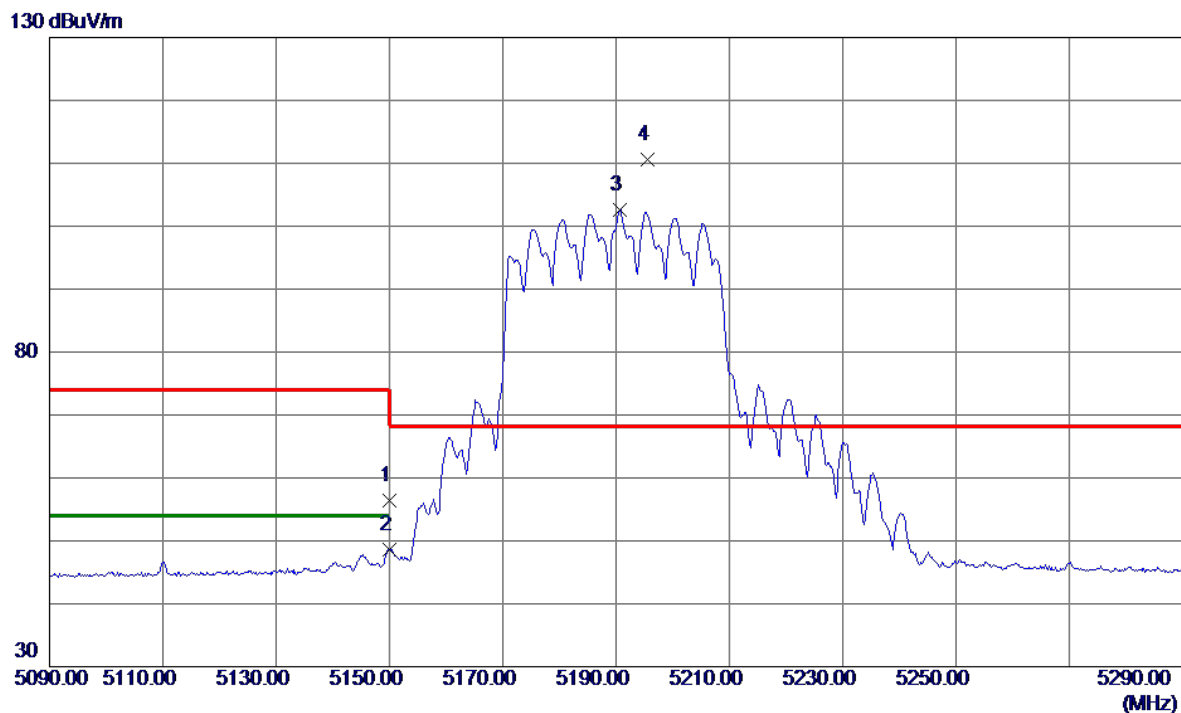


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10476.1800	50.88	12.25	63.13	68.20	-5.07	Peak	
2 *	10481.1800	39.57	12.26	51.83	54.00	-2.17	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5190 MHz	Polarization	Vertical
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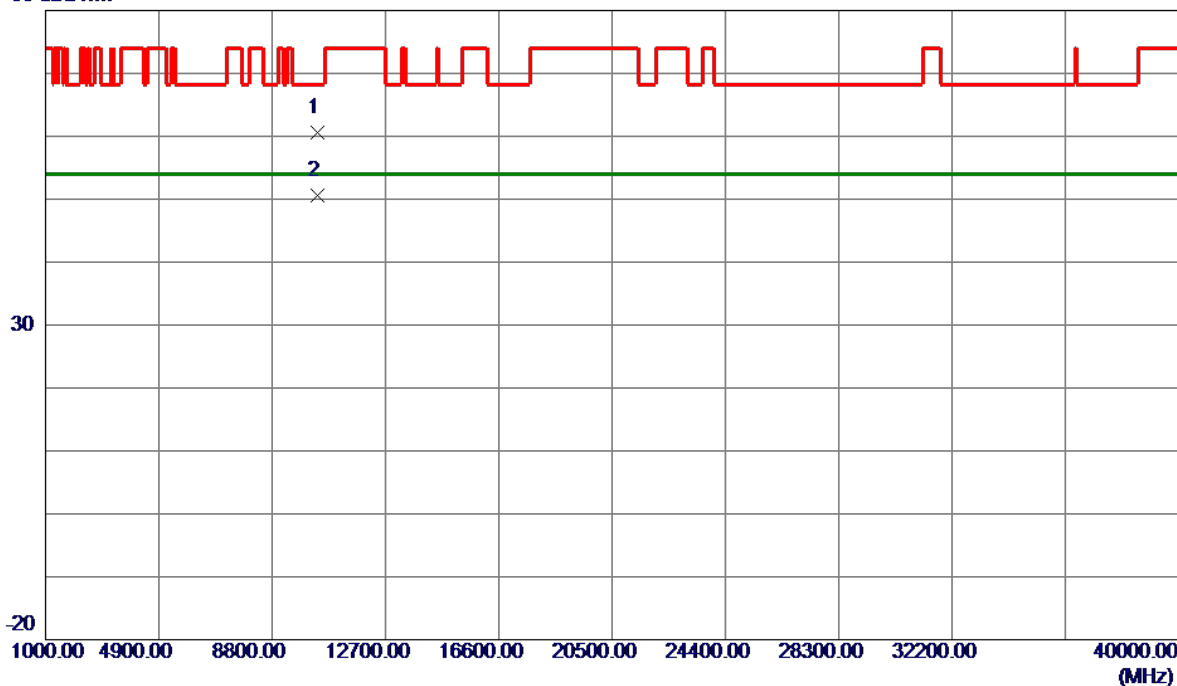
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	41.24	15.08	56.32	74.00	-17.68	Peak	
2	5150.0000	33.55	15.08	48.63	54.00	-5.37	AVG	
3	5190.6000	87.38	15.21	102.59	999.00	-896.41	AVG	No Limit
4 *	5195.6000	95.33	15.22	110.55	68.20	42.35	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5190 MHz	Polarization	Vertical
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80 dBuV/m

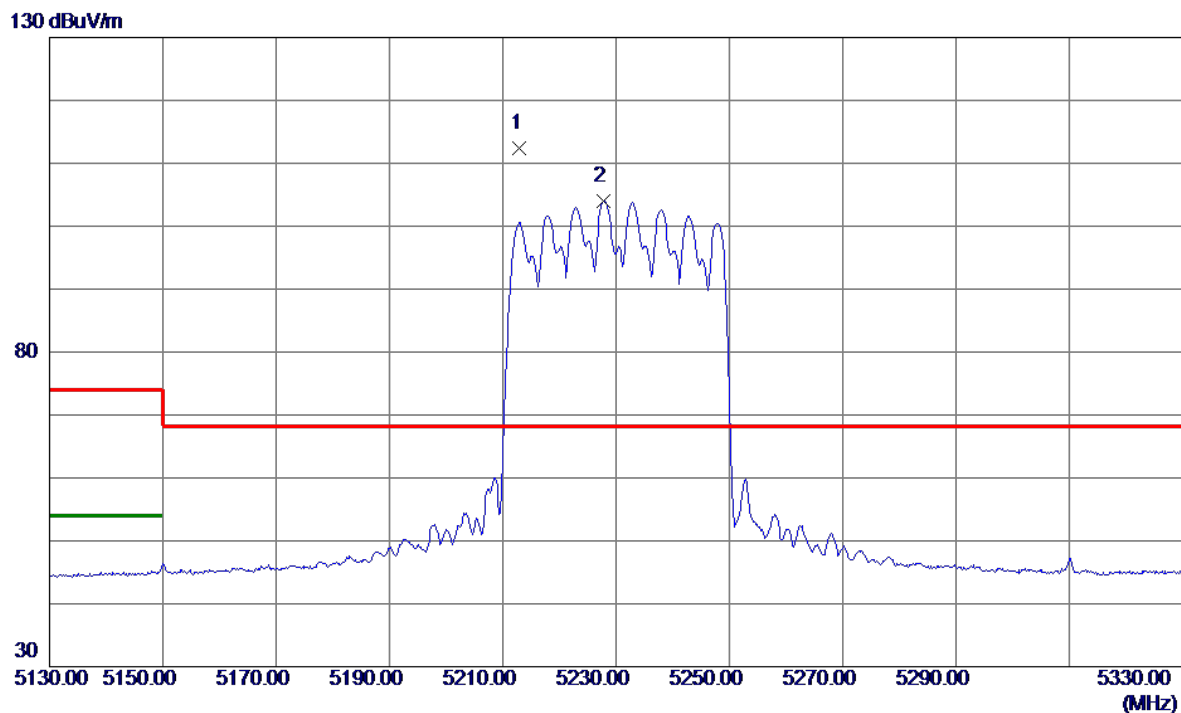


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10373.1400	48.44	12.14	60.58	68.20	-7.62	Peak	
2 *	10381.1400	38.46	12.15	50.61	54.00	-3.39	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5230 MHz	Polarization	Vertical
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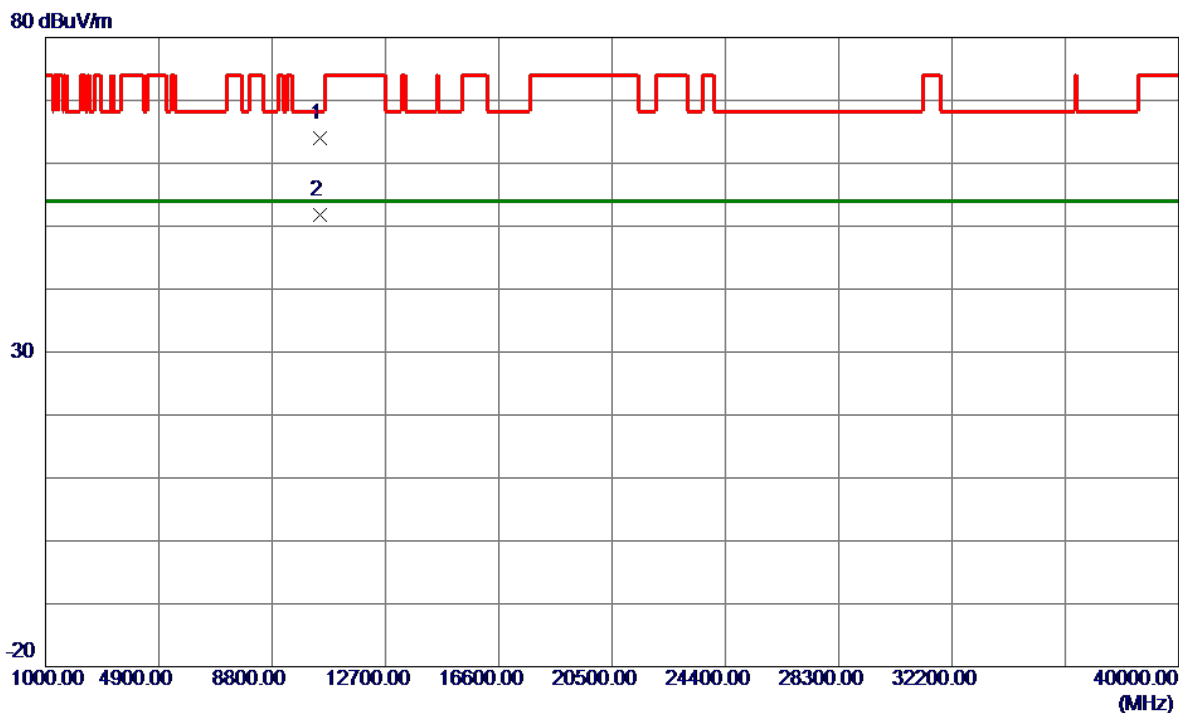


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5213.0000	97.16	15.28	112.44	68.20	44.24	Peak	No Limit
2	5227.8000	88.72	15.32	104.04	999.00	-894.96	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5230 MHz	Polarization	Vertical
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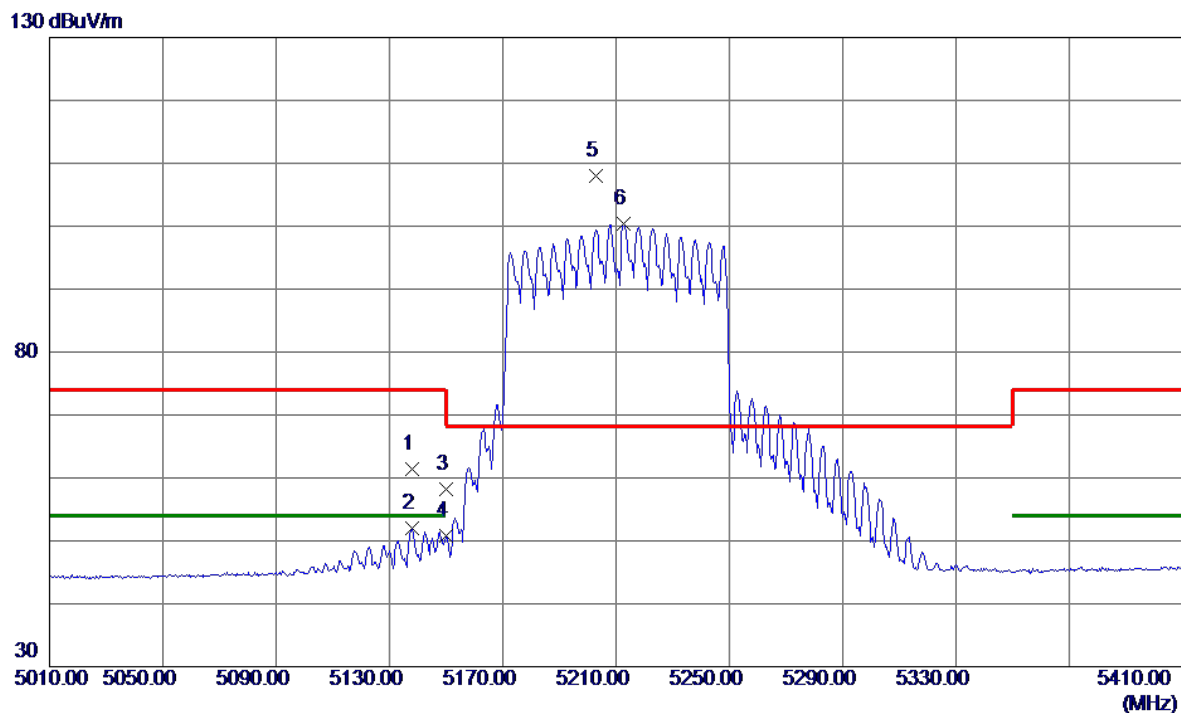


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10459.0400	51.75	12.23	63.98	68.20	-4.22	Peak	
2 *	10461.1400	39.58	12.23	51.81	54.00	-2.19	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE80) Mode 5210 MHz	Polarization	Vertical
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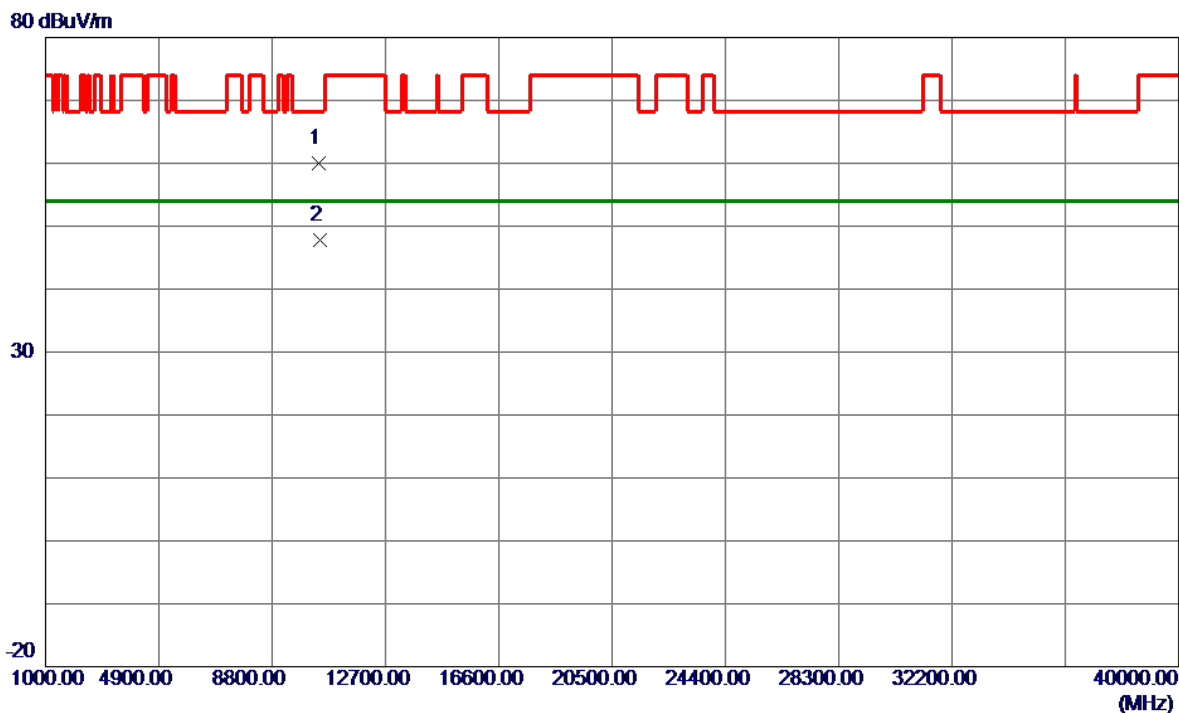


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5138.0000	46.32	15.05	61.37	74.00	-12.63	Peak	
2	5138.0000	36.87	15.05	51.92	54.00	-2.08	AVG	
3	5150.0000	43.15	15.08	58.23	74.00	-15.77	Peak	
4	5150.0000	35.69	15.08	50.77	54.00	-3.23	AVG	
5 *	5202.8000	92.80	15.25	108.05	68.20	39.85	Peak	No Limit
6	5212.8000	85.20	15.28	100.48	999.00	-898.52	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE80) Mode 5210 MHz	Polarization	Vertical
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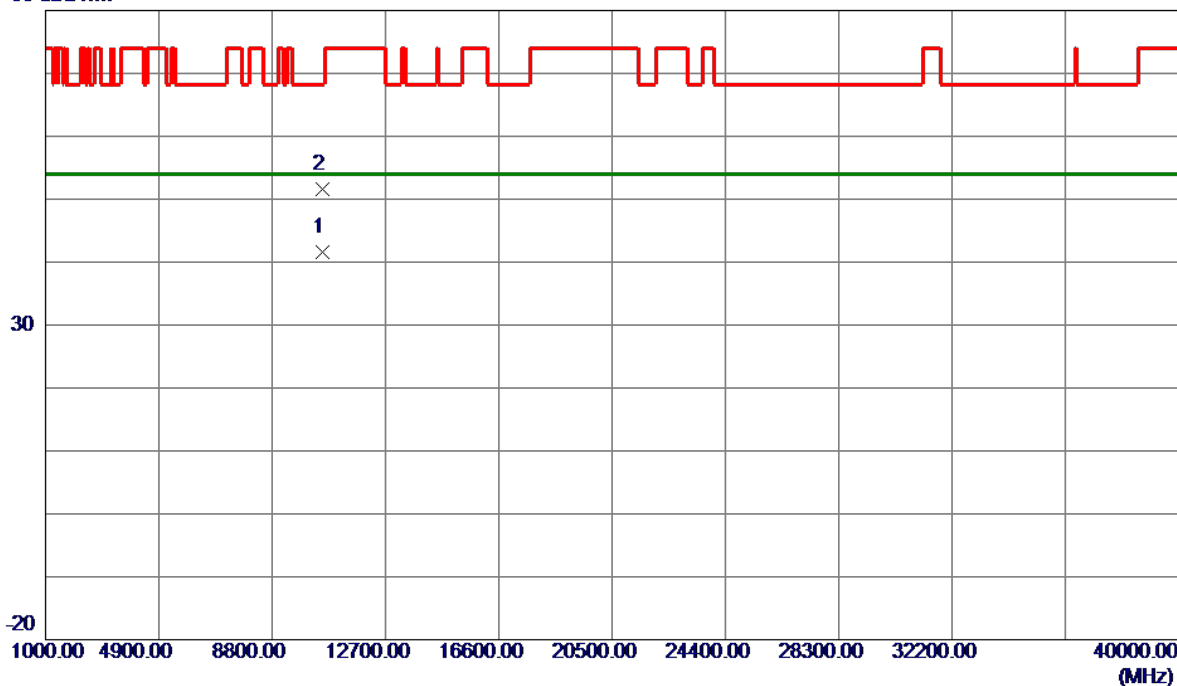
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10422.1200	47.78	12.19	59.97	68.20	-8.23	Peak	
2 *	10428.6800	35.65	12.20	47.85	54.00	-6.15	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5260 MHz	Polarization	Vertical
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80 dBuV/m

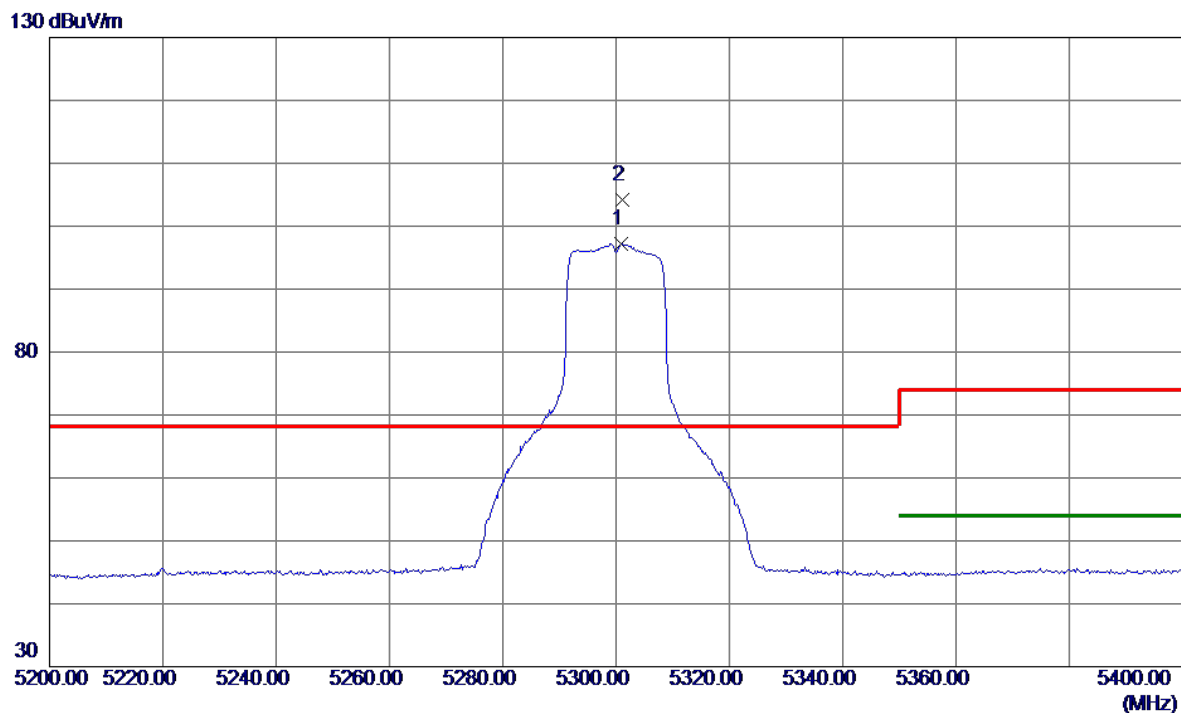


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10519.9000	29.22	12.30	41.52	54.00	-12.48	AVG	
2	10528.1000	39.35	12.30	51.65	68.20	-16.55	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Vertical
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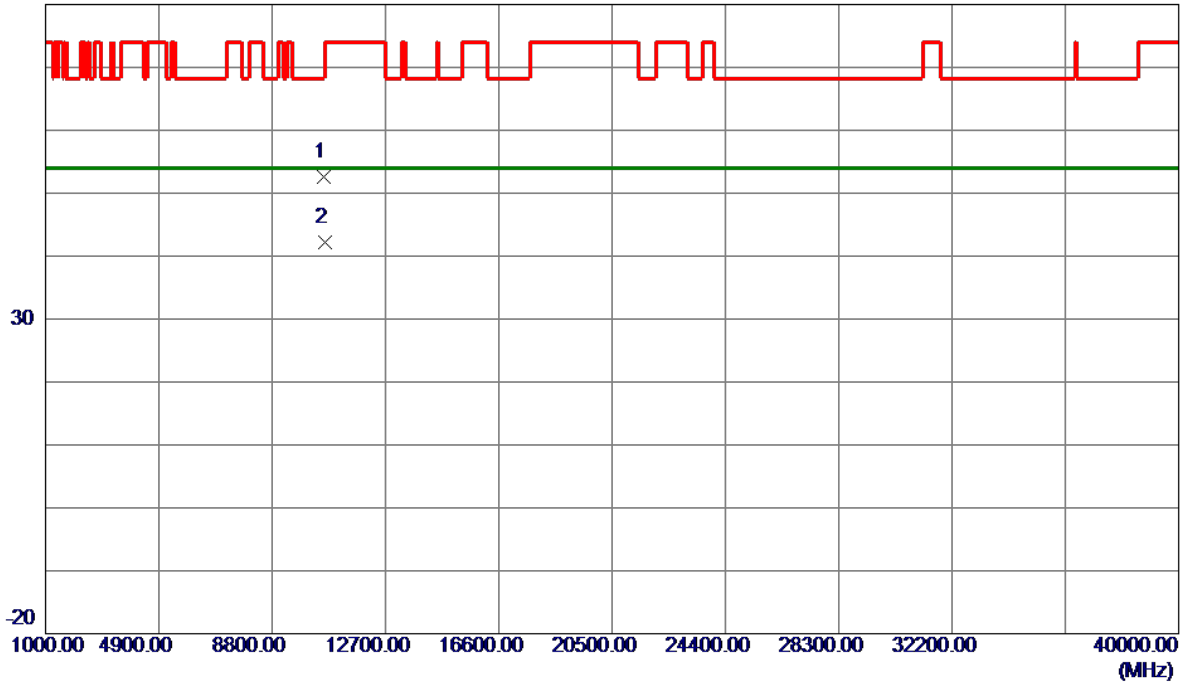
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5300.8000	81.68	15.55	97.23	999.00	-901.77	AVG	No Limit
2 *	5301.2000	88.73	15.55	104.28	68.20	36.08	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Vertical
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80 dBuV/m

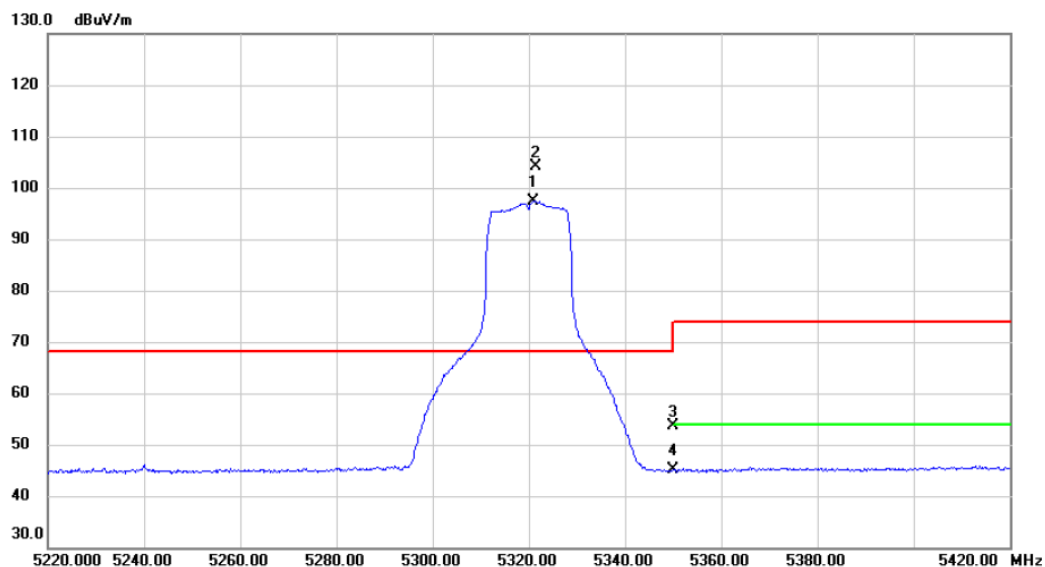


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10596.6500	40.27	12.37	52.64	68.20	-15.56	Peak	
2 *	10599.0500	29.75	12.38	42.13	54.00	-11.87	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Vertical
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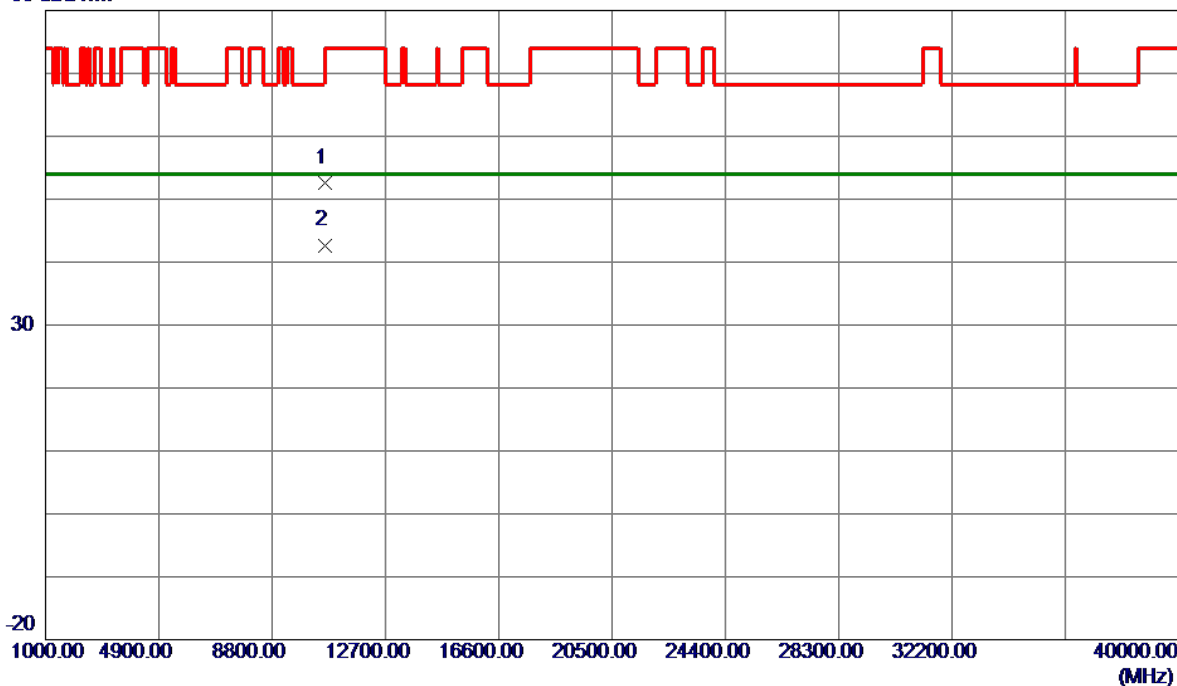
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5320.800	81.76	15.60	97.36	68.20	29.16	AVG	No Limit
2	*	5321.400	88.45	15.61	104.06	68.20	35.86	peak	No Limit
3		5350.000	37.99	15.70	53.69	74.00	-20.31	peak	
4		5350.000	29.41	15.70	45.11	54.00	-8.89	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Vertical
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80 dBuV/m

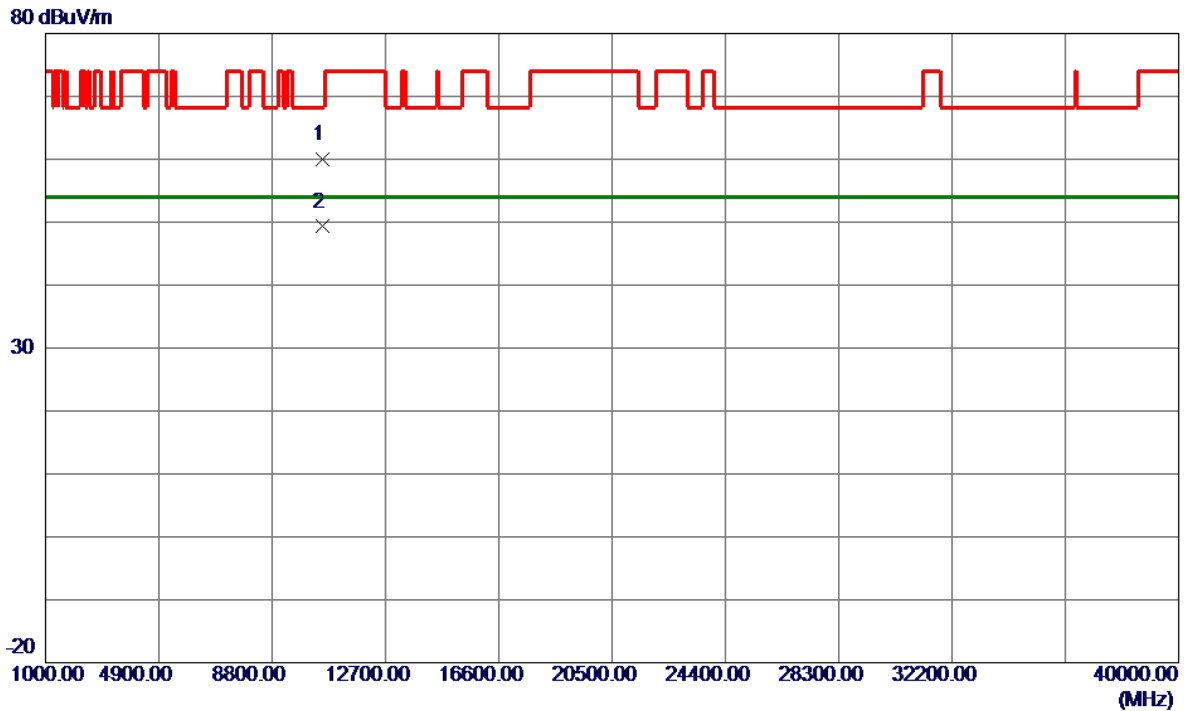


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10638.6000	40.25	12.41	52.66	74.00	-21.34	Peak	
2 *	10640.2500	30.28	12.42	42.70	54.00	-11.30	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5260 MHz	Polarization	Vertical
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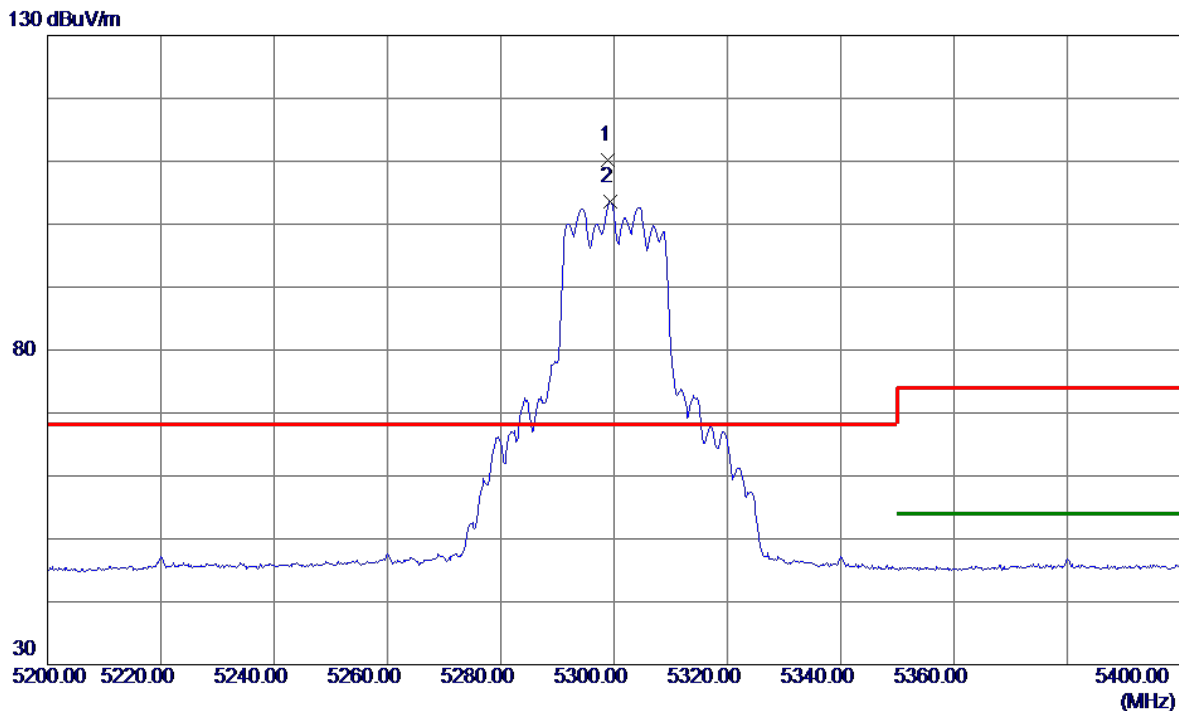


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10519.6500	47.77	12.29	60.06	68.20	-8.14	Peak	
2 *	10521.1000	37.00	12.30	49.30	54.00	-4.70	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Vertical
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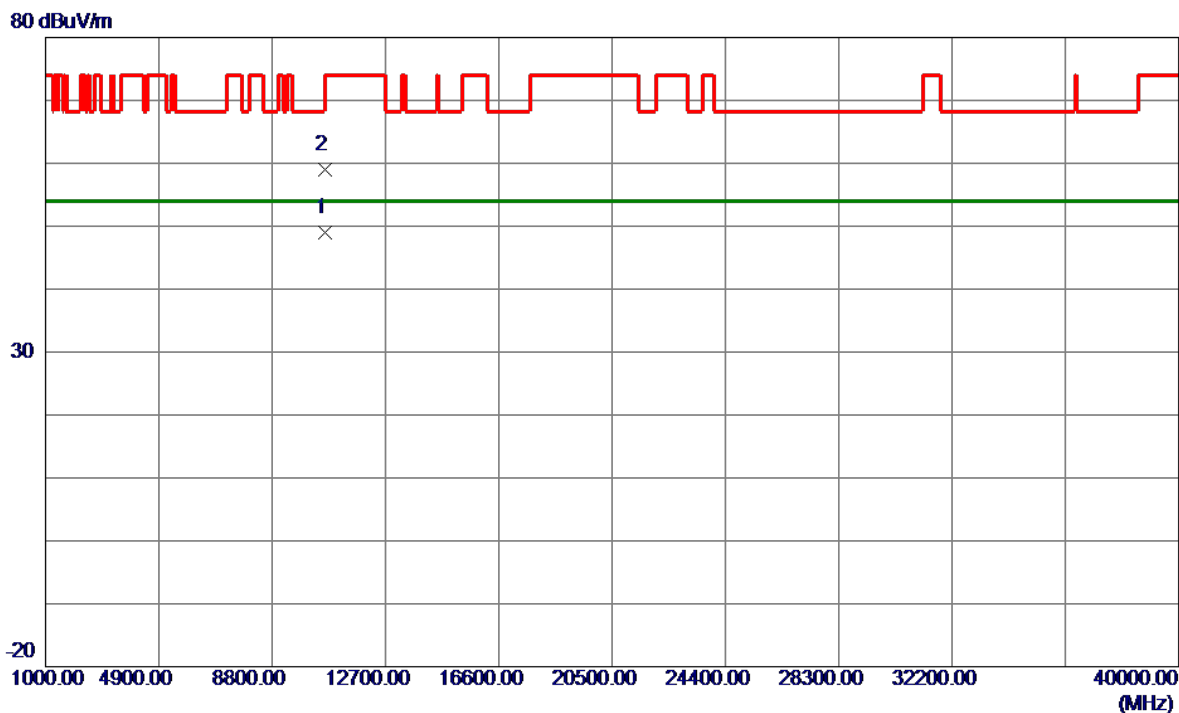


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5299.0000	94.71	15.54	110.25	68.20	42.05	Peak	No Limit
2	5299.4000	88.14	15.55	103.69	999.00	-895.31	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Vertical
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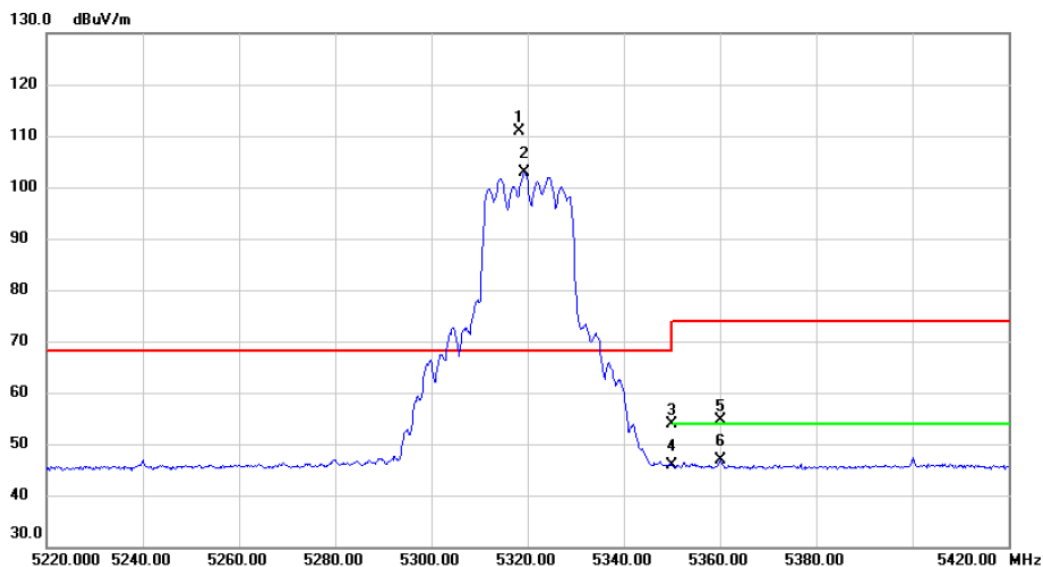


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10598.5000	36.72	12.37	49.09	54.00	-4.91	AVG	
2	10605.8000	46.65	12.38	59.03	74.00	-14.97	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Vertical
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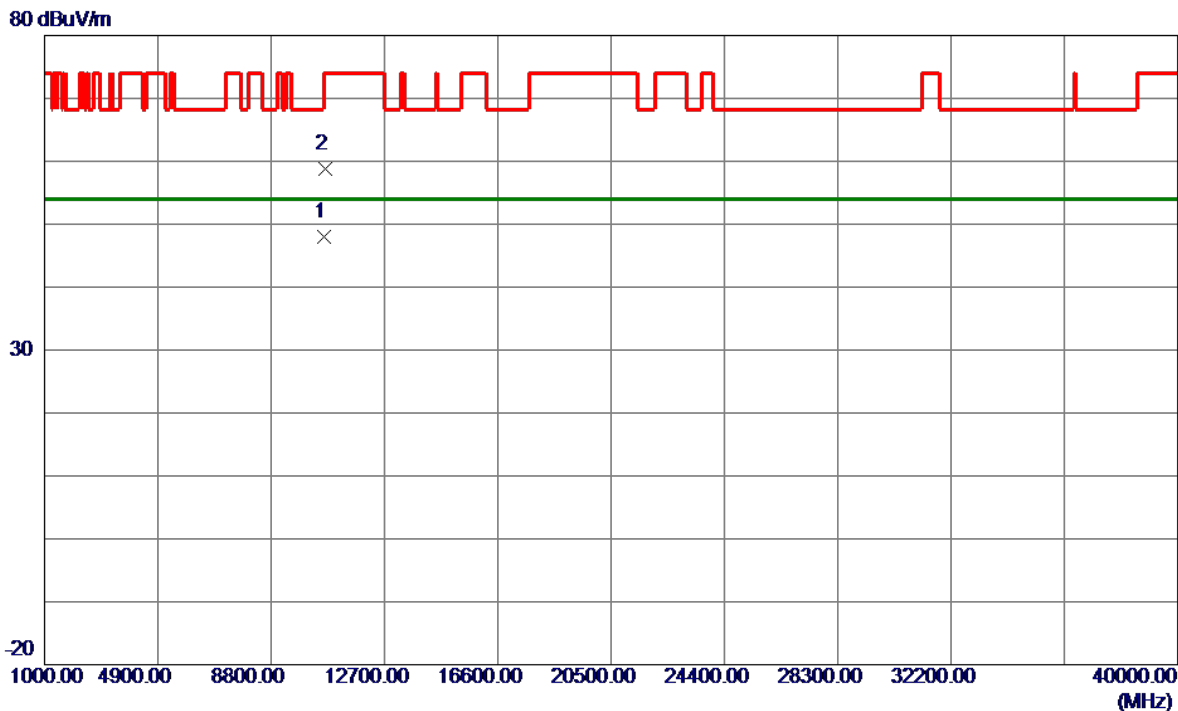
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5318.400	95.28	15.60	110.88	68.20	42.68	peak	No Limit
2	X	5319.400	87.16	15.60	102.76	68.20	34.56	AVG	No Limit
3		5350.000	38.12	15.70	53.82	74.00	-20.18	peak	
4		5350.000	30.15	15.70	45.85	54.00	-8.15	AVG	
5		5360.000	38.80	15.73	54.53	74.00	-19.47	peak	
6		5360.000	31.26	15.73	46.99	54.00	-7.01	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Vertical
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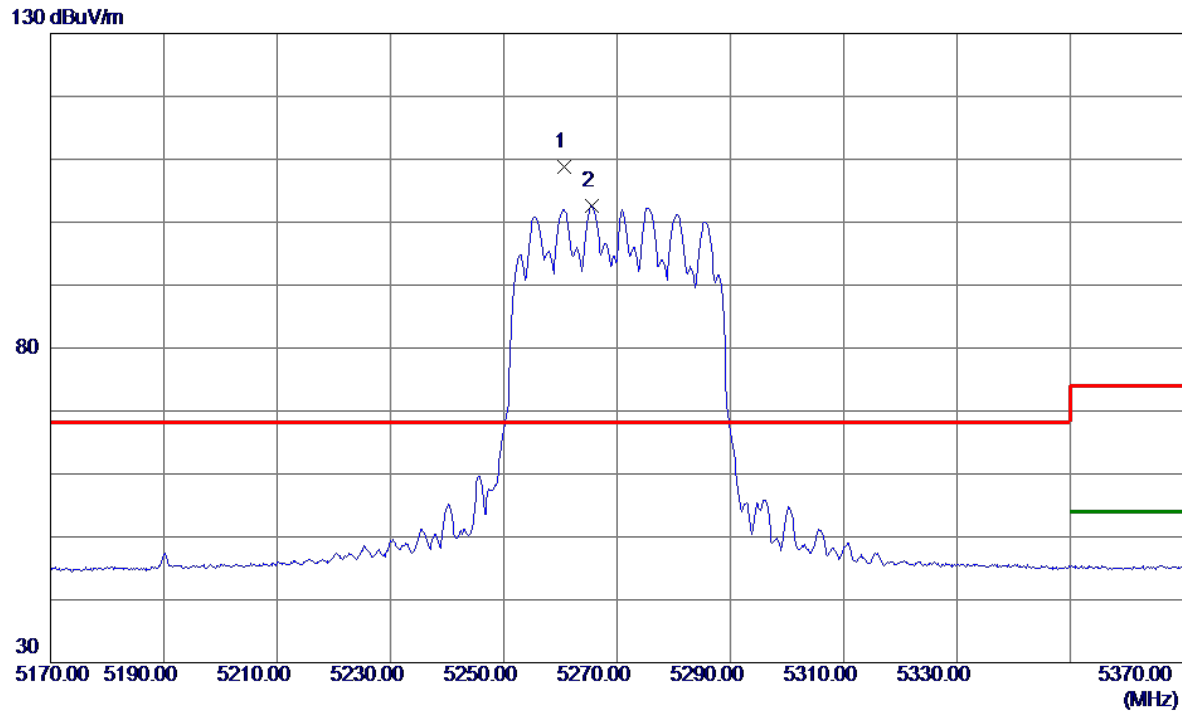


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10640.6500	35.63	12.42	48.05	54.00	-5.95	AVG	
2	10645.6000	46.39	12.42	58.81	74.00	-15.19	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Vertical
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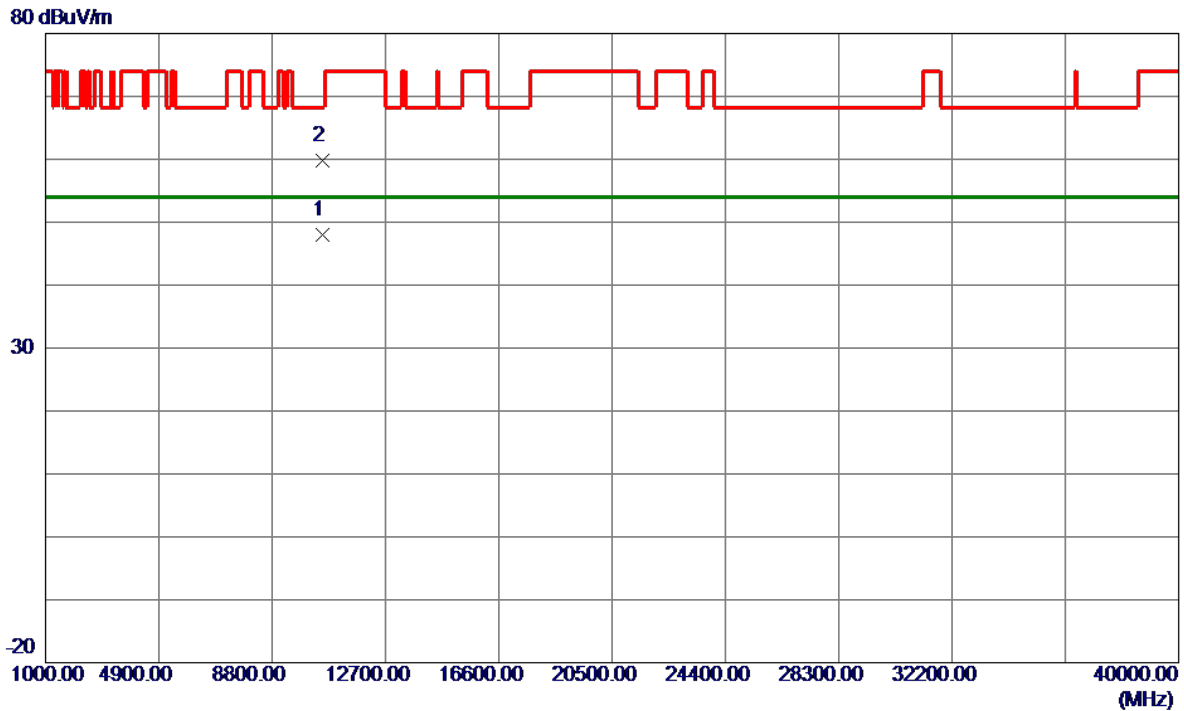


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5260.6000	93.36	15.43	108.79	68.20	40.59	Peak	No Limit
2	5265.6000	87.12	15.44	102.56	999.00	-896.44	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Vertical
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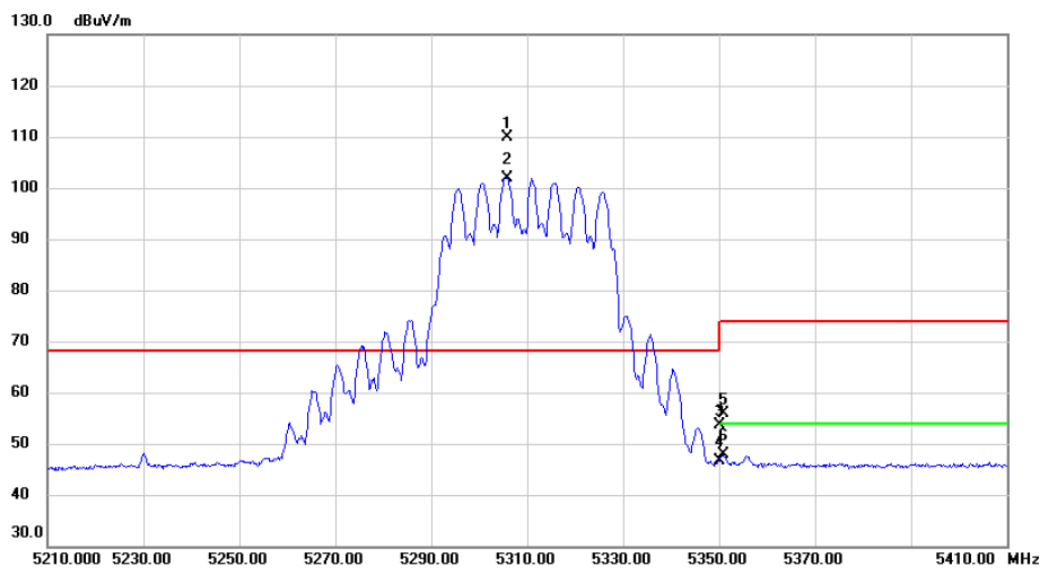


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10536.1200	35.66	12.31	47.97	54.00	-6.03	AVG	
2	10540.6200	47.44	12.32	59.76	68.20	-8.44	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Vertical
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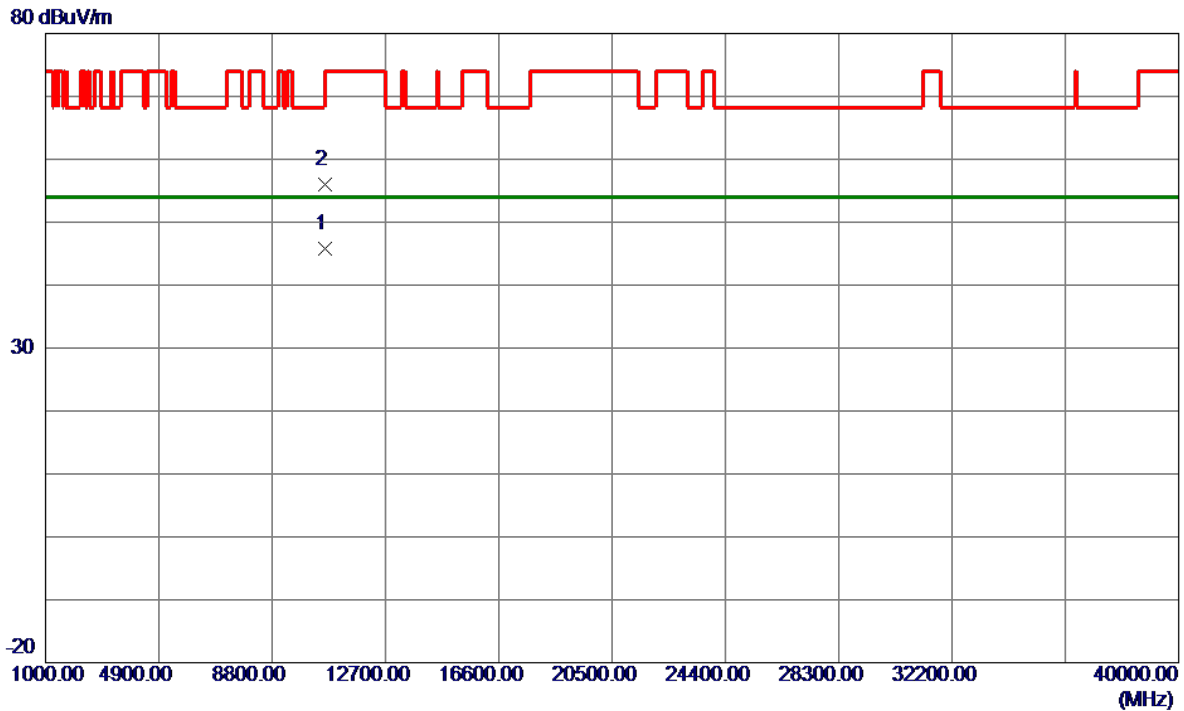


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5305.800	94.21	15.57	109.78	68.20	41.58	peak	No Limit
2	X	5305.800	86.38	15.57	101.95	68.20	33.75	AVG	No Limit
3		5350.000	37.91	15.70	53.61	74.00	-20.39	peak	
4		5350.000	30.92	15.70	46.62	54.00	-7.38	AVG	
5		5351.000	40.28	15.70	55.98	74.00	-18.02	peak	
6		5351.000	32.29	15.70	47.99	54.00	-6.01	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Vertical
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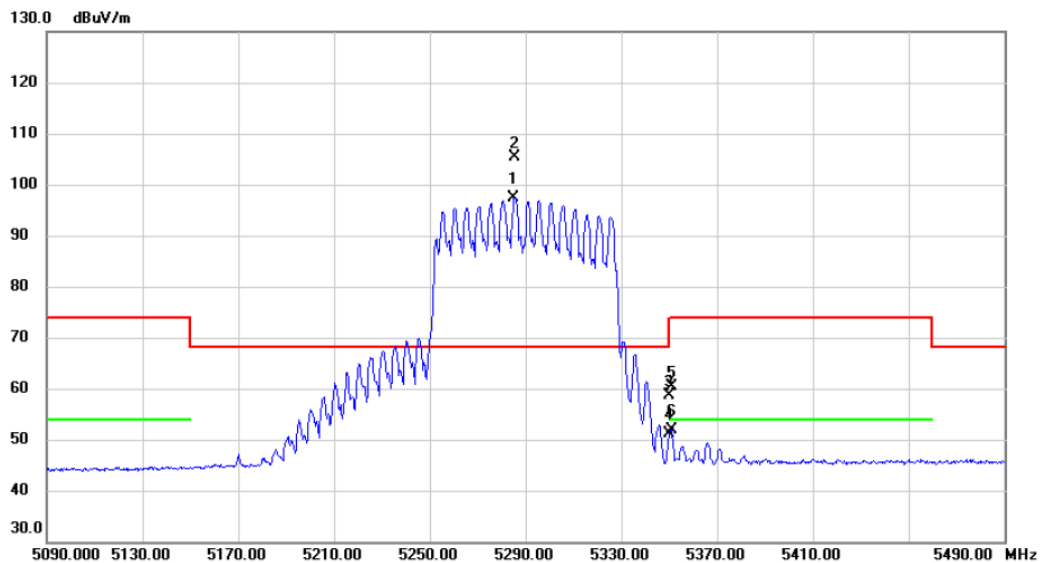


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10615.5800	33.41	12.39	45.80	54.00	-8.20	AVG	
2	10625.3600	43.54	12.40	55.94	74.00	-18.06	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Vertical
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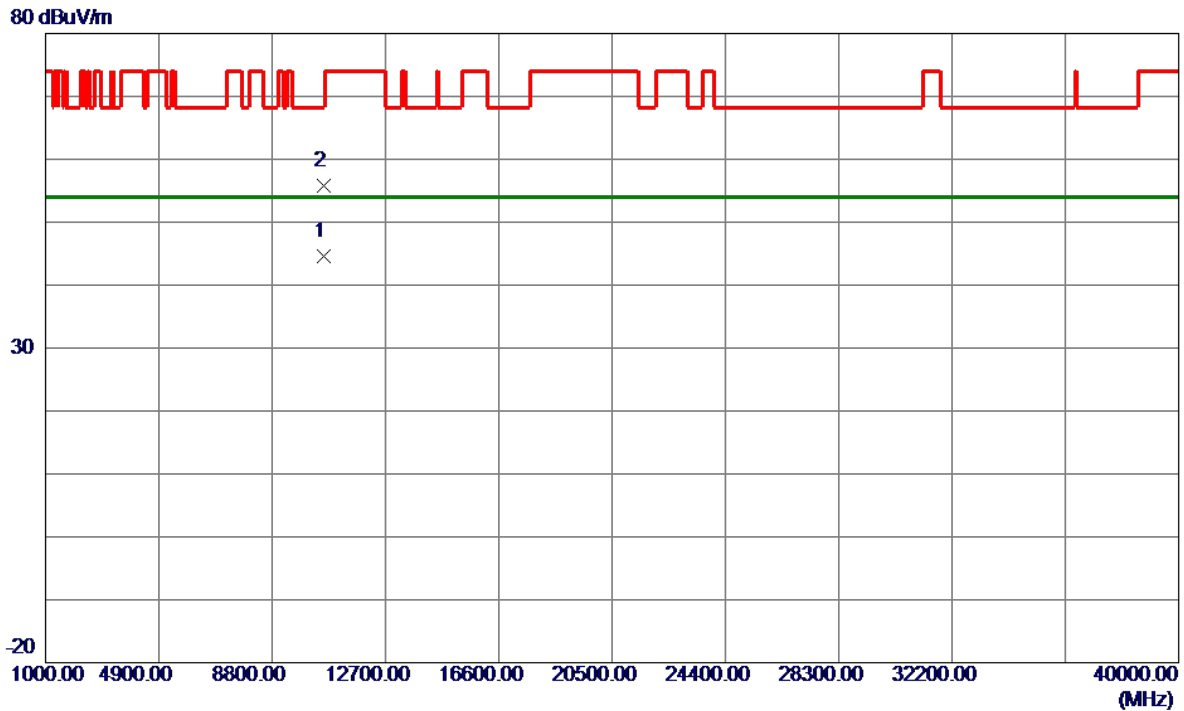
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5285.200	81.90	15.50	97.40	68.20	29.20	AVG	No Limit
2	*	5285.600	89.95	15.50	105.45	68.20	37.25	peak	No Limit
3		5350.000	43.03	15.70	58.73	74.00	-15.27	peak	
4		5350.000	35.48	15.70	51.18	54.00	-2.82	AVG	
5		5350.800	44.78	15.70	60.48	74.00	-13.52	peak	
6		5350.800	36.19	15.70	51.89	54.00	-2.11	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Vertical
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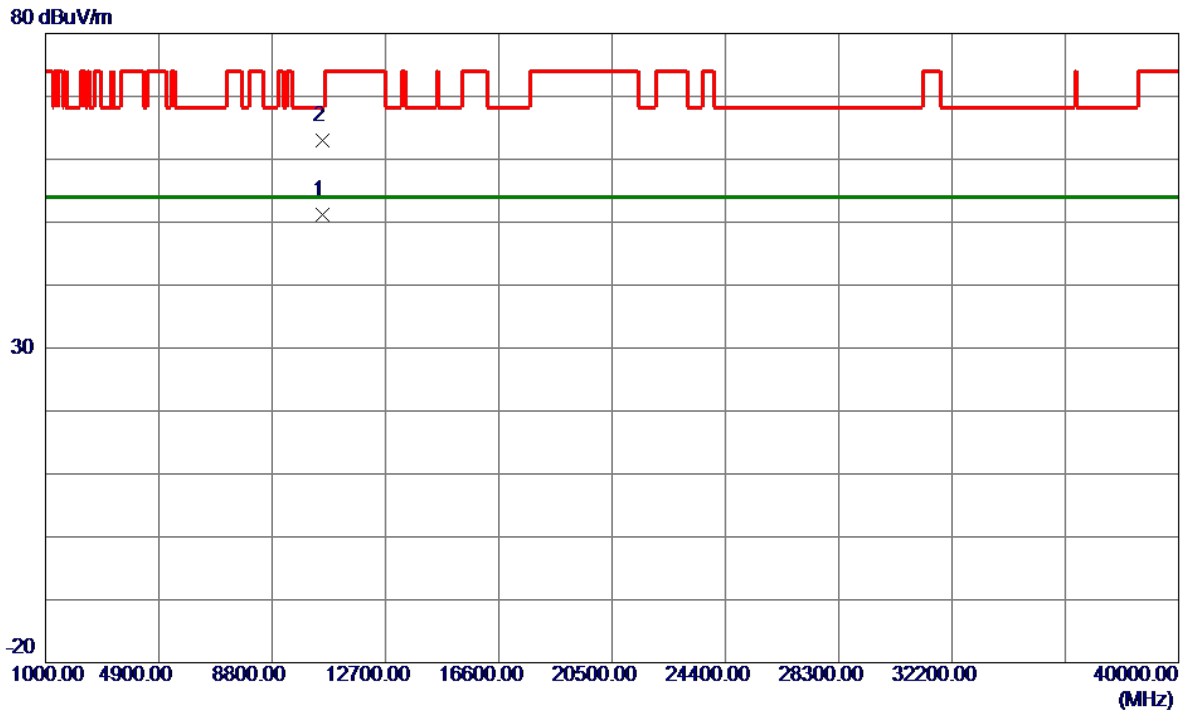


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10580.8600	32.22	12.36	44.58	54.00	-9.42	AVG	
2	10585.8400	43.47	12.36	55.83	68.20	-12.37	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5260 MHz	Polarization	Vertical
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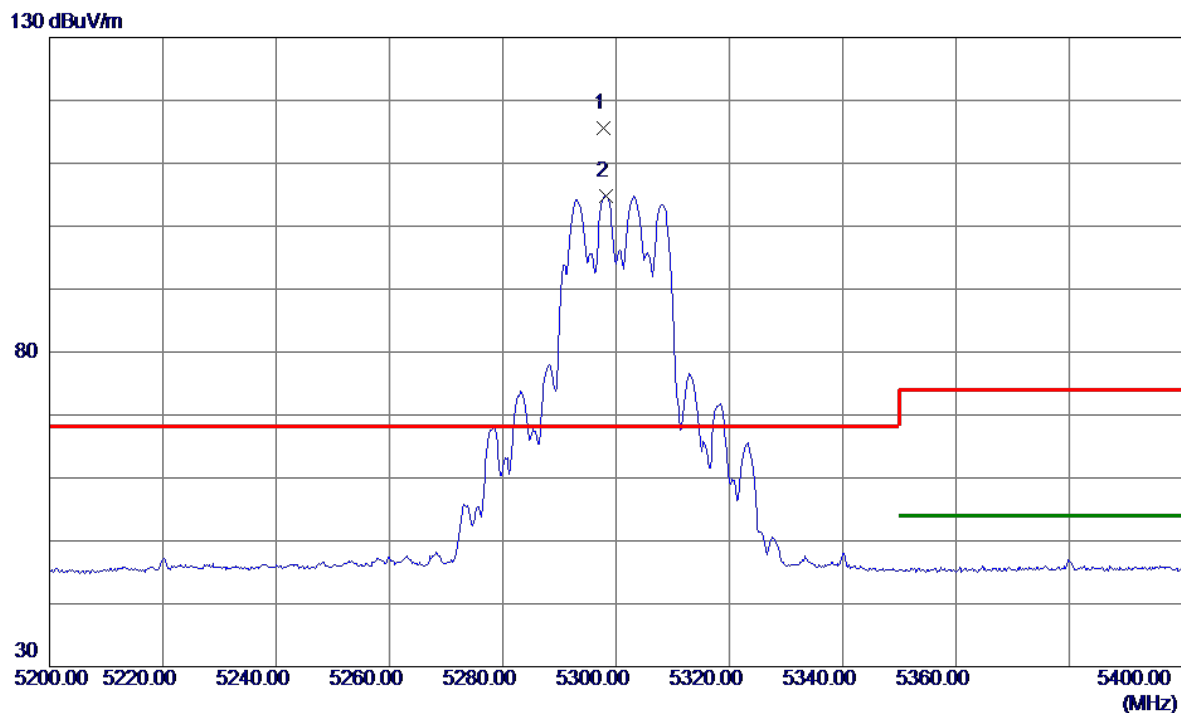


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10521.0599	38.90	12.30	51.20	54.00	-2.80	AVG	
2	10521.1800	50.62	12.30	62.92	68.20	-5.28	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Vertical
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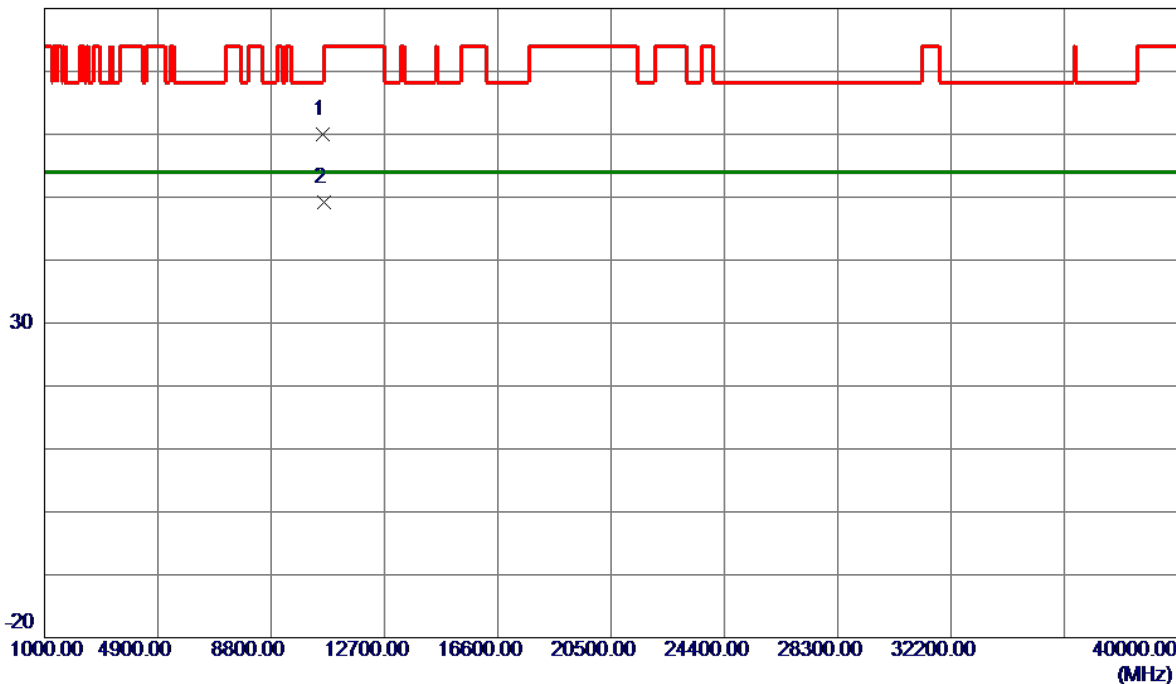
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5297.8000	99.98	15.54	115.52	68.20	47.32	Peak	No Limit
2	5298.2000	89.27	15.54	104.81	999.00	-894.19	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Vertical
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80 dBuV/m

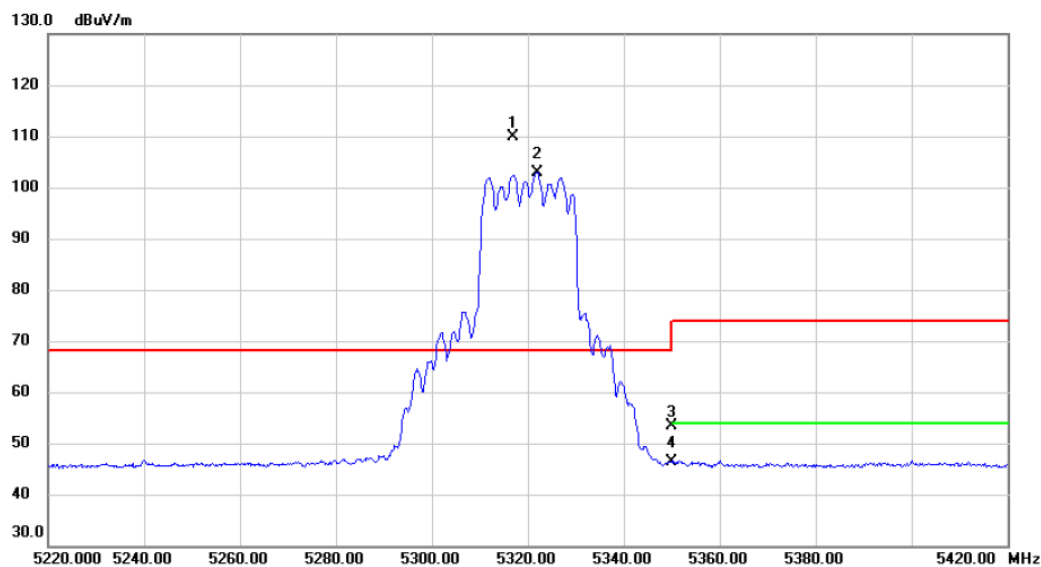


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10596.1200	47.72	12.37	60.09	68.20	-8.11	Peak	
2 *	10600.8800	36.81	12.38	49.19	54.00	-4.81	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Vertical
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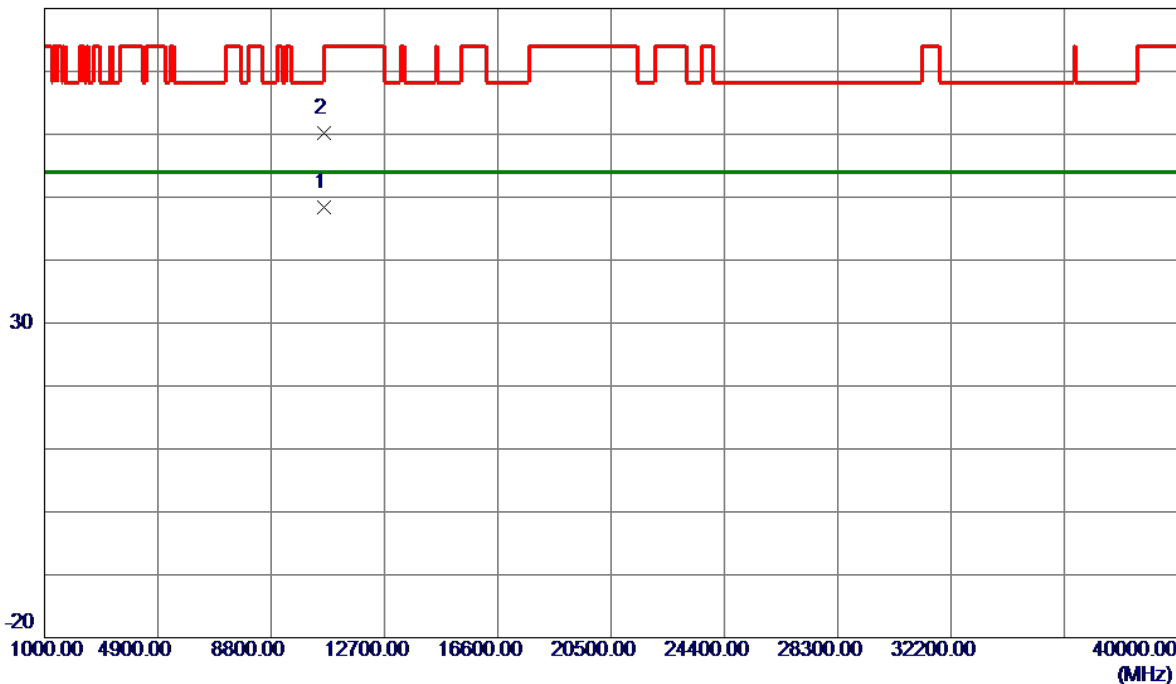
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5316.800	94.40	15.59	109.99	68.20	41.79	peak	No Limit
2	X	5322.000	87.33	15.61	102.94	68.20	34.74	AVG	No Limit
3		5350.000	37.78	15.70	53.48	74.00	-20.52	peak	
4		5350.000	30.80	15.70	46.50	54.00	-7.50	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Vertical
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80 dBuV/m

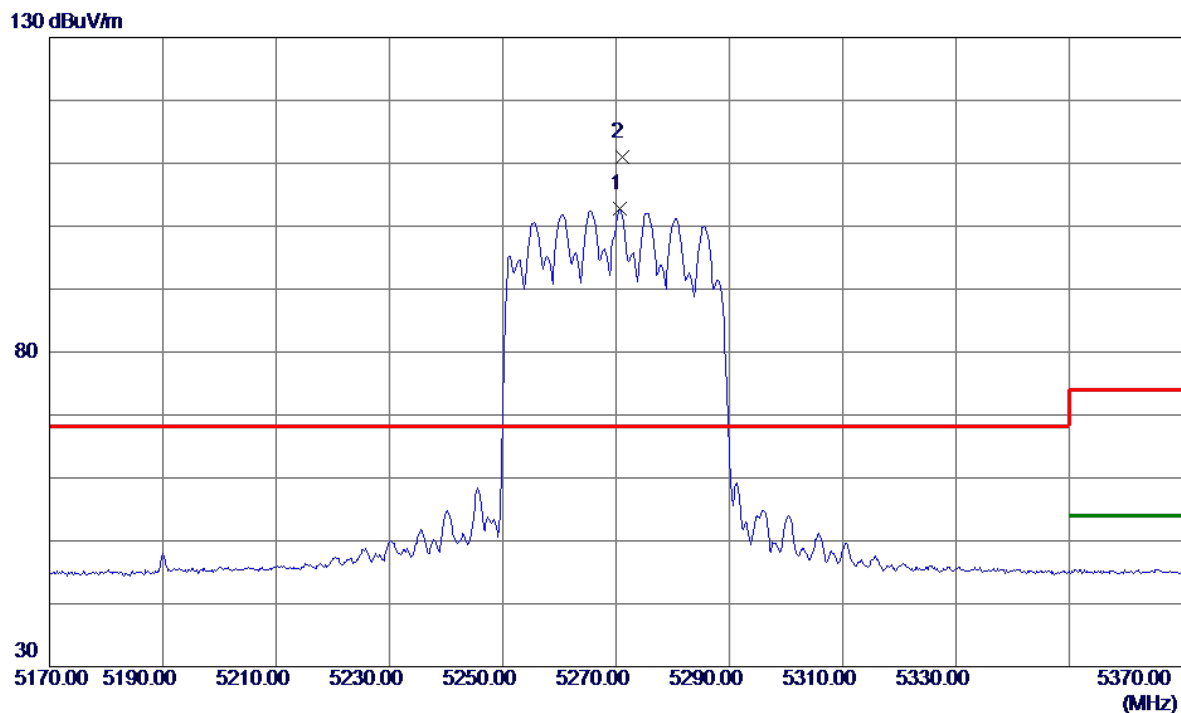


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10640.3800	36.03	12.42	48.45	54.00	-5.55	AVG	
2	10640.5199	47.85	12.42	60.27	74.00	-13.73	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
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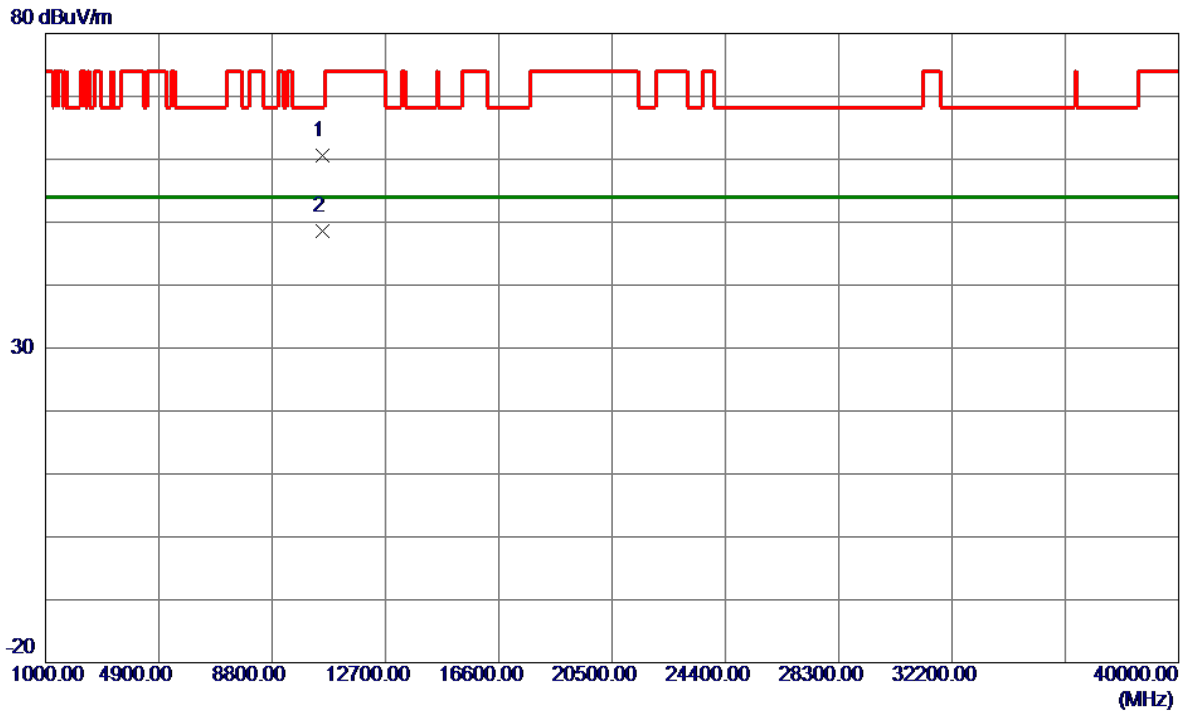


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5270.6000	87.33	15.46	102.79	999.00	-896.21	AVG	No Limit
2 *	5271.0000	95.45	15.46	110.91	68.20	42.71	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
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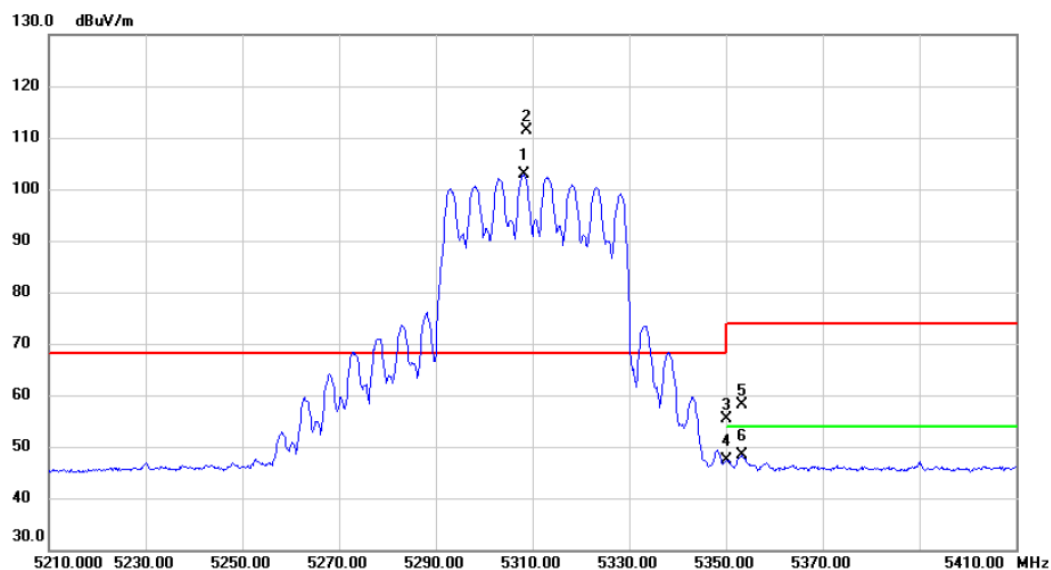


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10536.2200	48.33	12.31	60.64	68.20	-7.56	Peak	
2 *	10541.1400	36.27	12.32	48.59	54.00	-5.41	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Vertical
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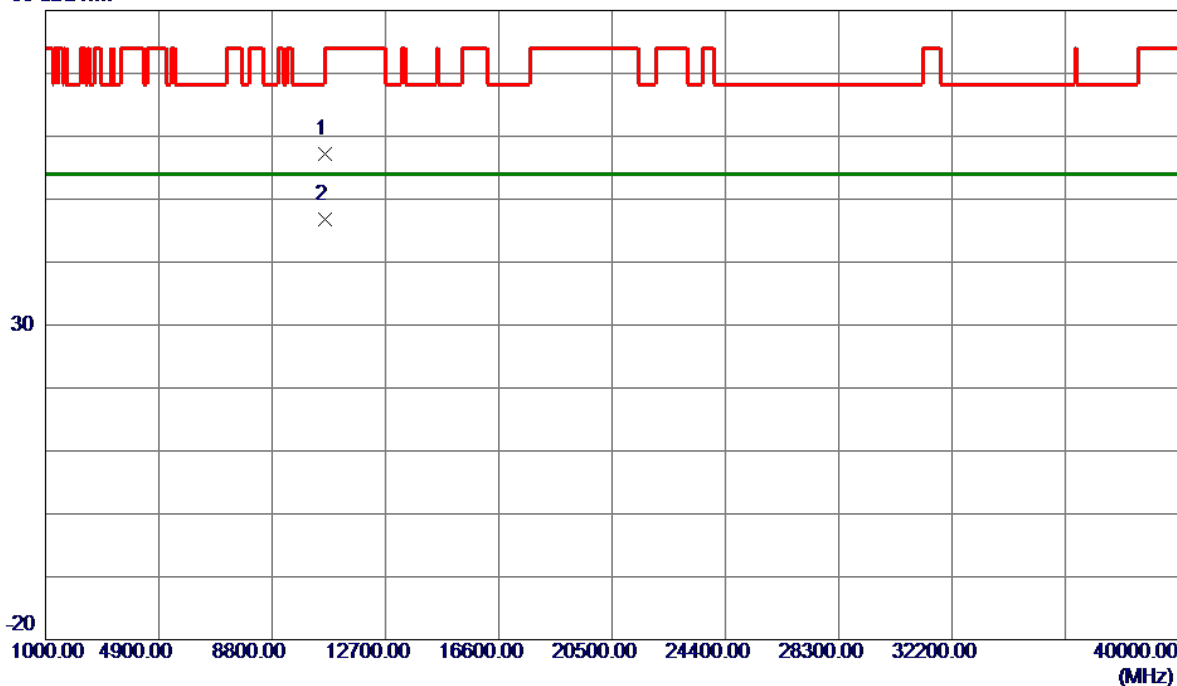
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5308.200	87.40	15.57	102.97	68.20	34.77	AVG	No Limit
2	*	5308.800	95.77	15.57	111.34	68.20	43.14	peak	No Limit
3		5350.000	39.73	15.70	55.43	74.00	-18.57	peak	
4		5350.000	31.79	15.70	47.49	54.00	-6.51	AVG	
5		5353.400	42.33	15.71	58.04	74.00	-15.96	peak	
6		5353.400	32.60	15.71	48.31	54.00	-5.69	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Vertical
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80 dBuV/m

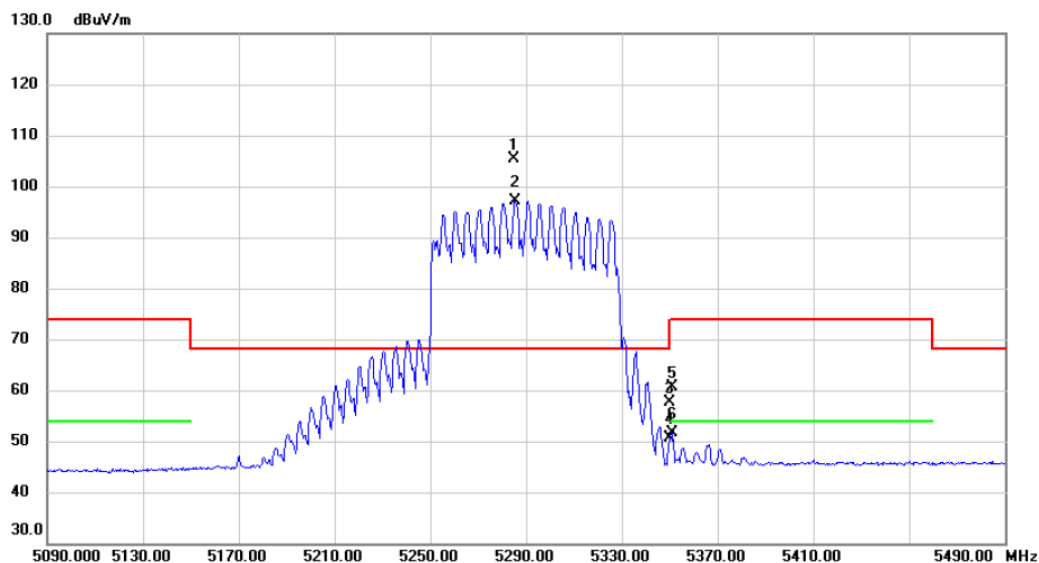


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10613.0800	44.81	12.39	57.20	74.00	-16.80	Peak	
2 *	10617.8600	34.35	12.39	46.74	54.00	-7.26	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Vertical
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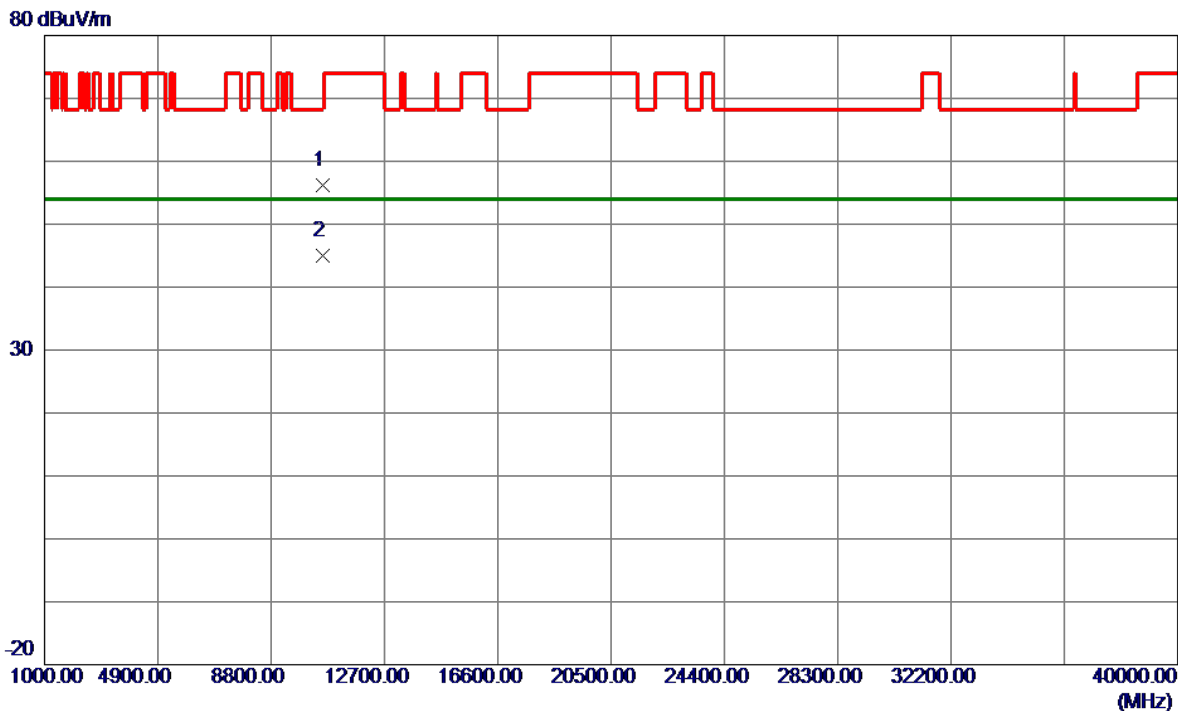


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5285.200	89.86	15.50	105.36	68.20	37.16	peak	No Limit
2	X	5285.600	81.66	15.50	97.16	68.20	28.96	AVG	No Limit
3		5350.000	41.98	15.70	57.68	74.00	-16.32	peak	
4		5350.000	35.01	15.70	50.71	54.00	-3.29	AVG	
5		5350.800	44.93	15.70	60.63	74.00	-13.37	peak	
6		5350.800	36.04	15.70	51.74	54.00	-2.26	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Vertical
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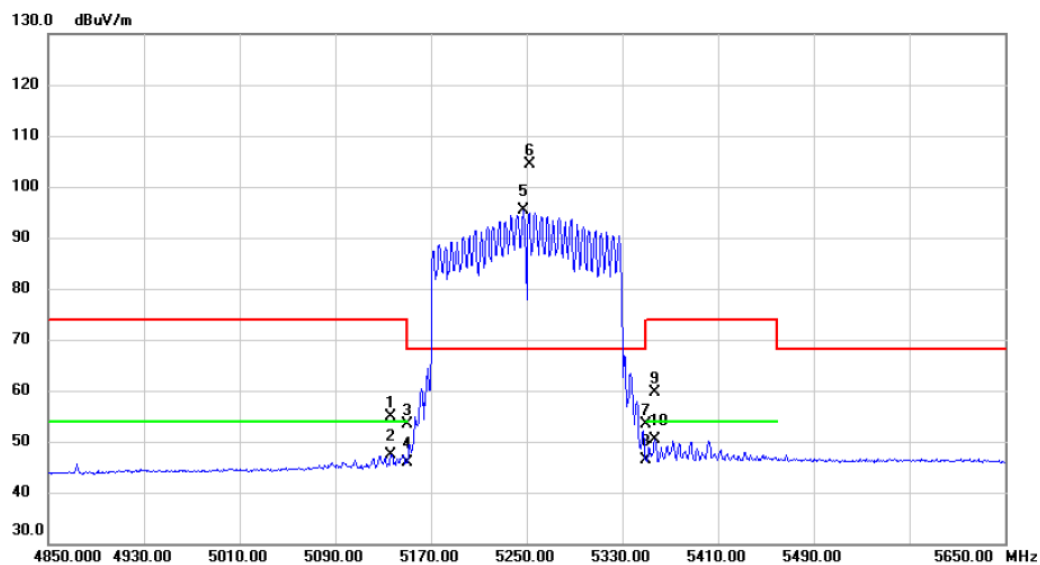


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10578.1800	43.87	12.35	56.22	68.20	-11.98	Peak	
2 *	10580.4600	32.62	12.36	44.98	54.00	-9.02	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1+UNII-2A_TX AX(HE160) Mode 5250 MHz	Polarization	Vertical
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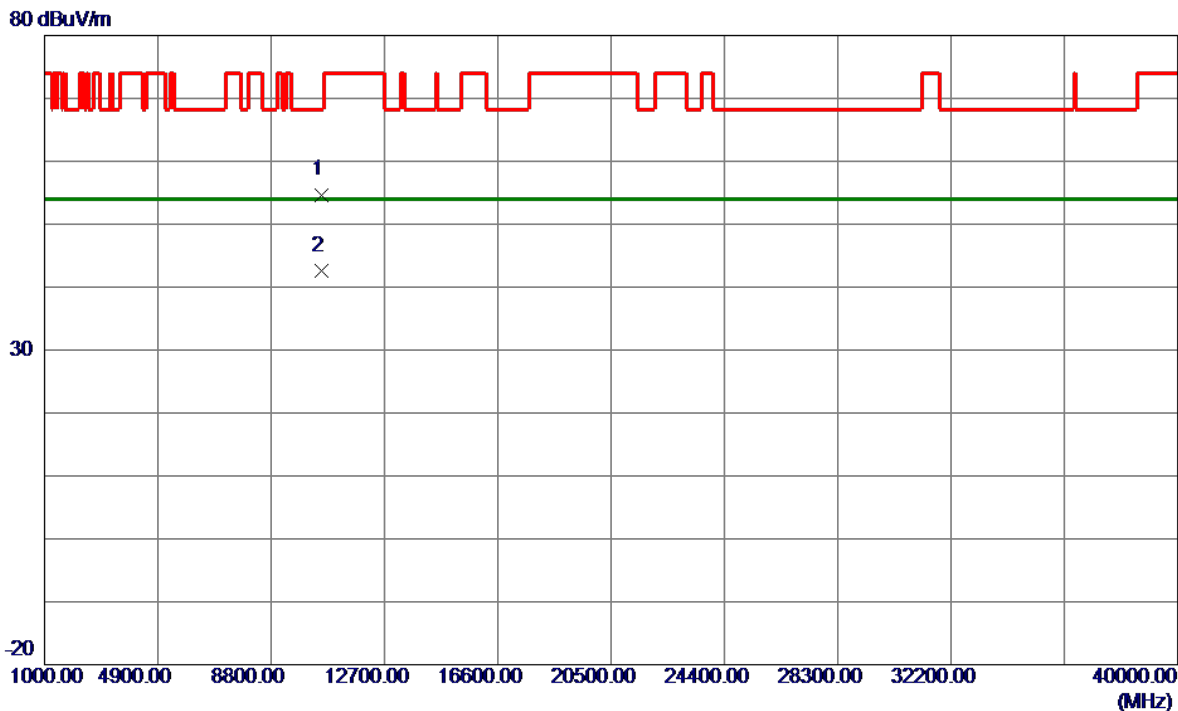


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5136.400	39.74	15.03	54.77	74.00	-19.23	peak	
2		5136.400	32.39	15.03	47.42	54.00	-6.58	AVG	
3		5150.000	38.37	15.08	53.45	74.00	-20.55	peak	
4		5150.000	30.81	15.08	45.89	54.00	-8.11	AVG	
5	X	5246.800	80.02	15.38	95.40	68.20	27.20	AVG	No Limit
6	*	5253.200	89.08	15.41	104.49	68.20	36.29	peak	No Limit
7		5350.000	37.65	15.70	53.35	74.00	-20.65	peak	
8		5350.000	30.69	15.70	46.39	54.00	-7.61	AVG	
9		5357.200	43.92	15.72	59.64	74.00	-14.36	peak	
10		5357.200	34.57	15.72	50.29	54.00	-3.71	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1+UNII-2A_TX AX(HE160) Mode 5250 MHz	Polarization	Vertical
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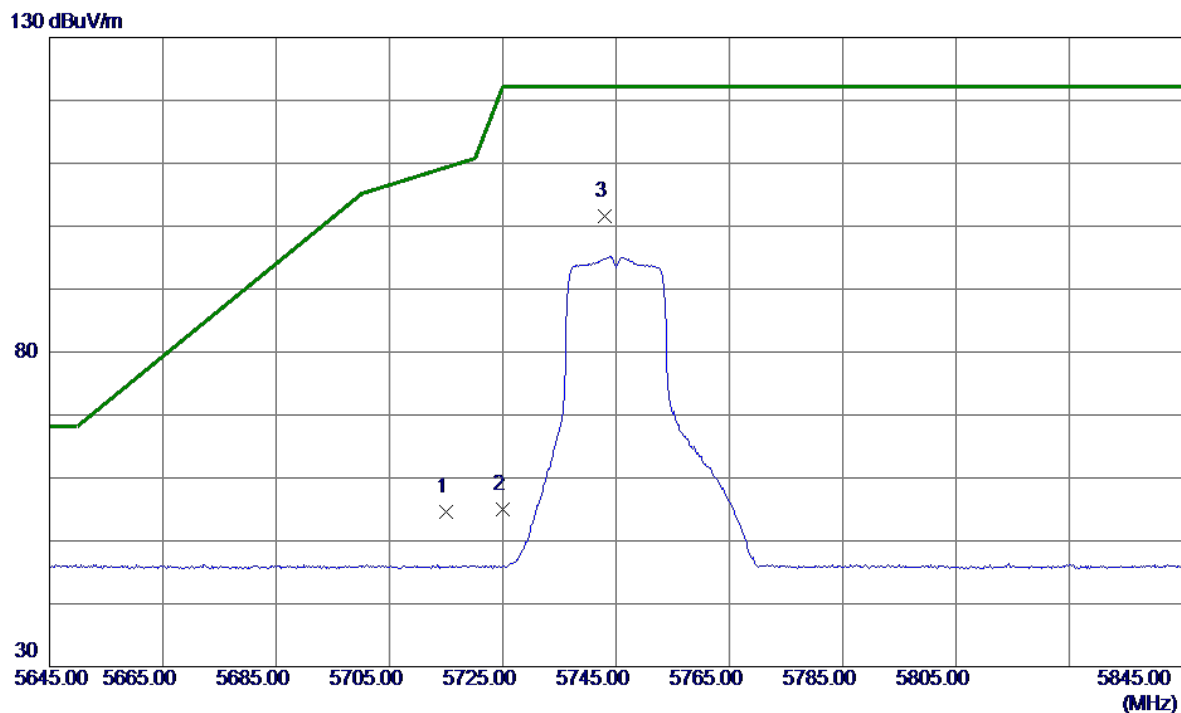


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10518.8000	42.41	12.29	54.70	68.20	-13.50	Peak	
2 *	10519.0000	30.23	12.29	42.52	54.00	-11.48	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical
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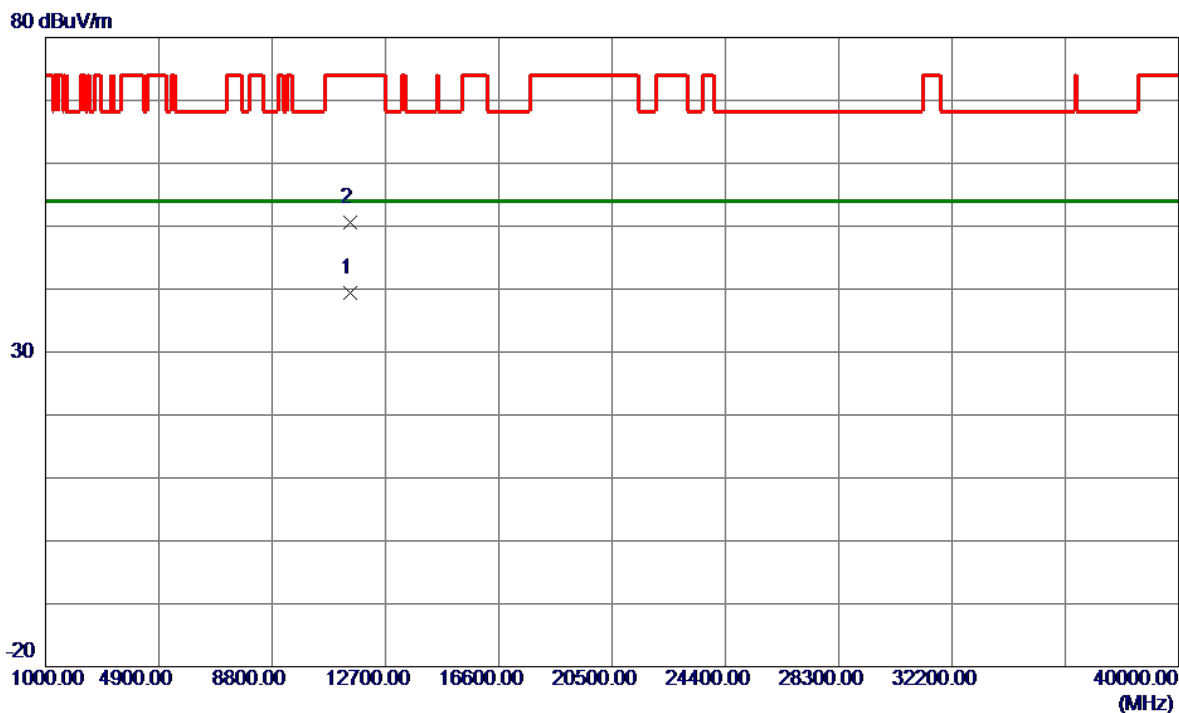


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	38.09	16.55	54.64	109.40	-54.76	Peak	
2	5725.0000	38.49	16.57	55.06	122.20	-67.14	Peak	
3 *	5743.0000	85.07	16.60	101.67	122.20	-20.53	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical
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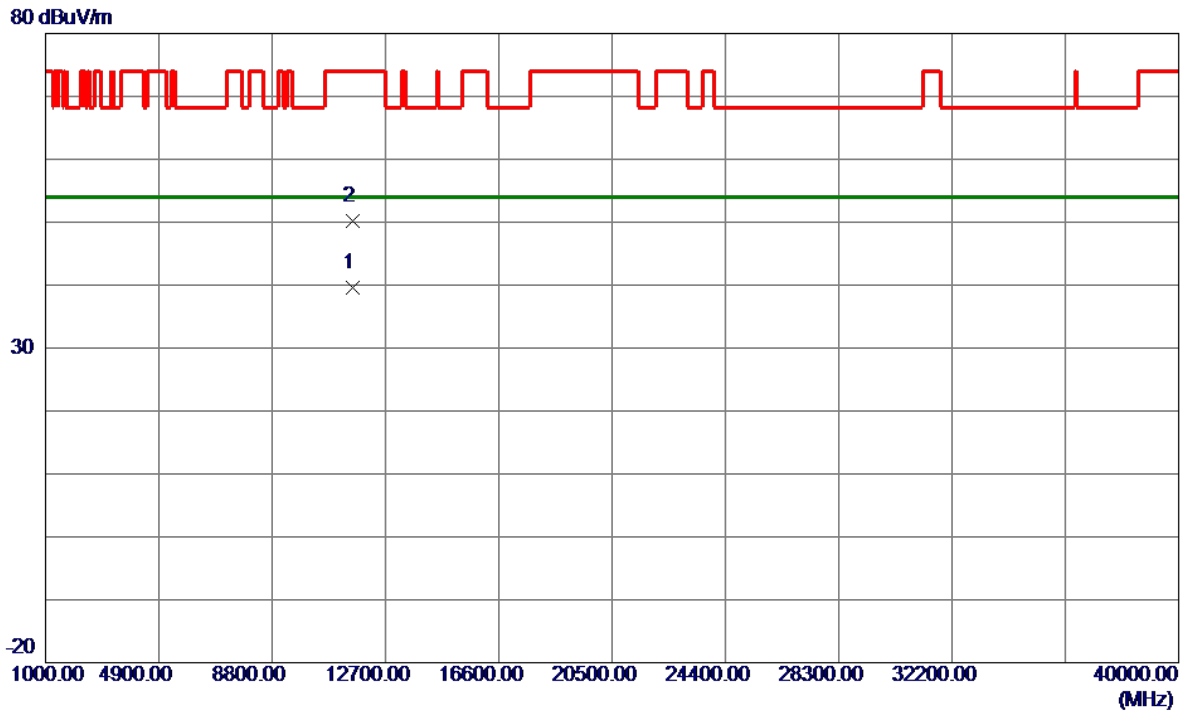


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11482.0599	26.09	13.33	39.42	54.00	-14.58	AVG	
2	11493.1200	37.22	13.35	50.57	74.00	-23.43	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Vertical
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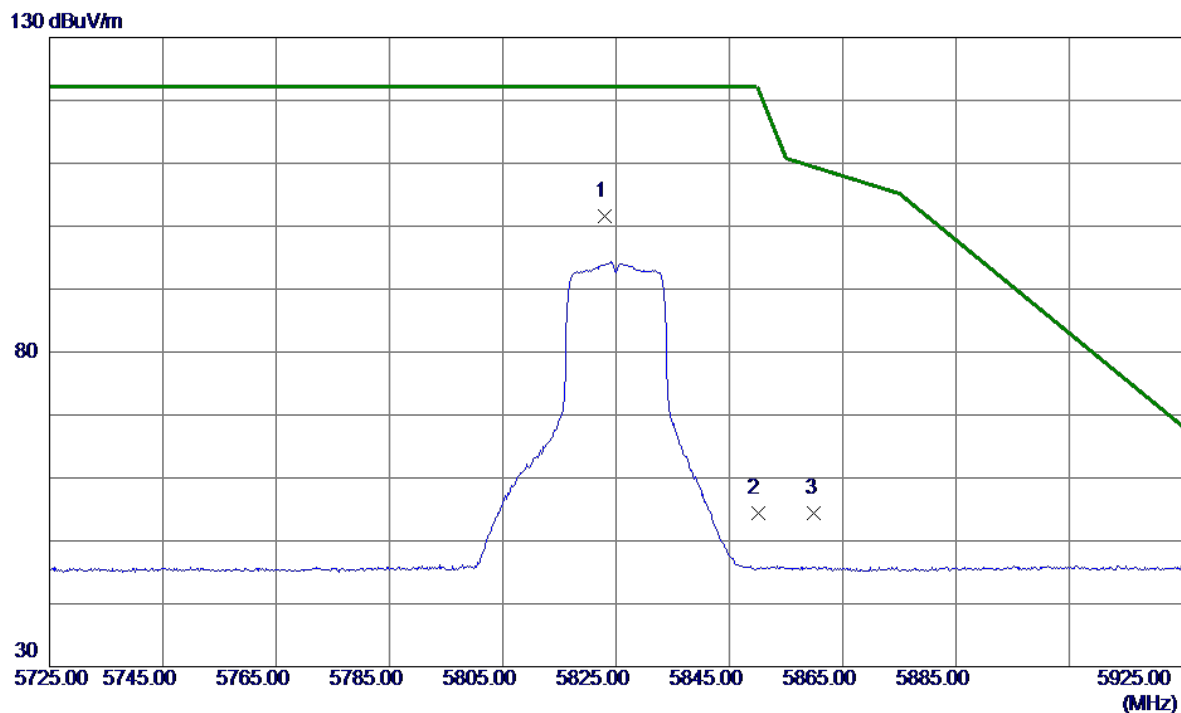


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11564.7200	26.24	13.37	39.61	54.00	-14.39	AVG	
2	11578.6200	36.91	13.37	50.28	74.00	-23.72	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical
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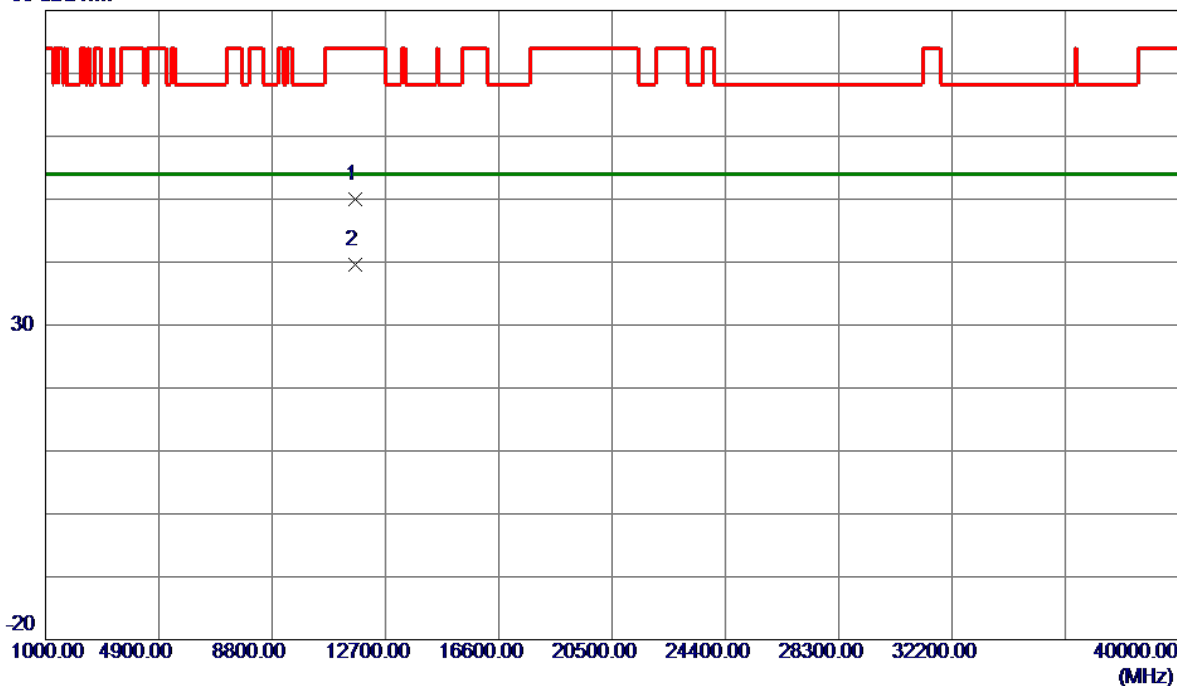
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.0000	84.87	16.74	101.61	122.20	-20.59	Peak	No Limit
2	5850.0000	37.61	16.79	54.40	122.20	-67.80	Peak	
3	5860.0000	37.53	16.81	54.34	109.40	-55.06	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical
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80 dBuV/m

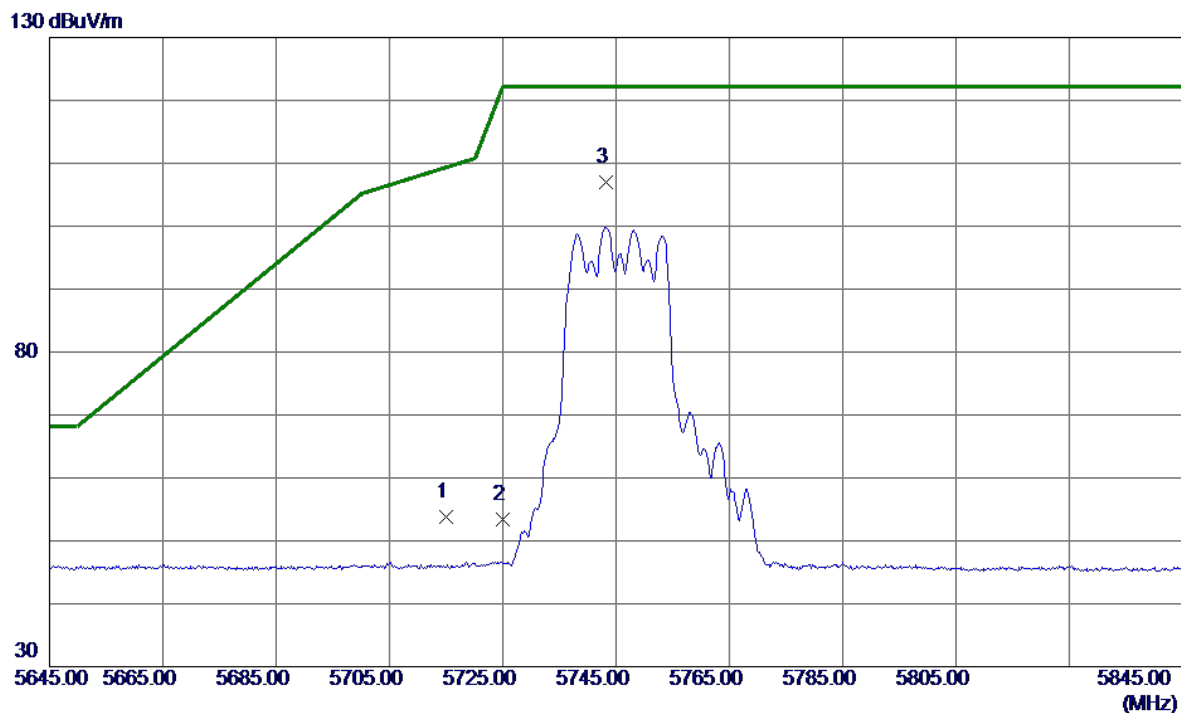


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11652.6600	36.53	13.39	49.92	74.00	-24.08	Peak	
2 *	11656.6000	26.25	13.39	39.64	54.00	-14.36	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical
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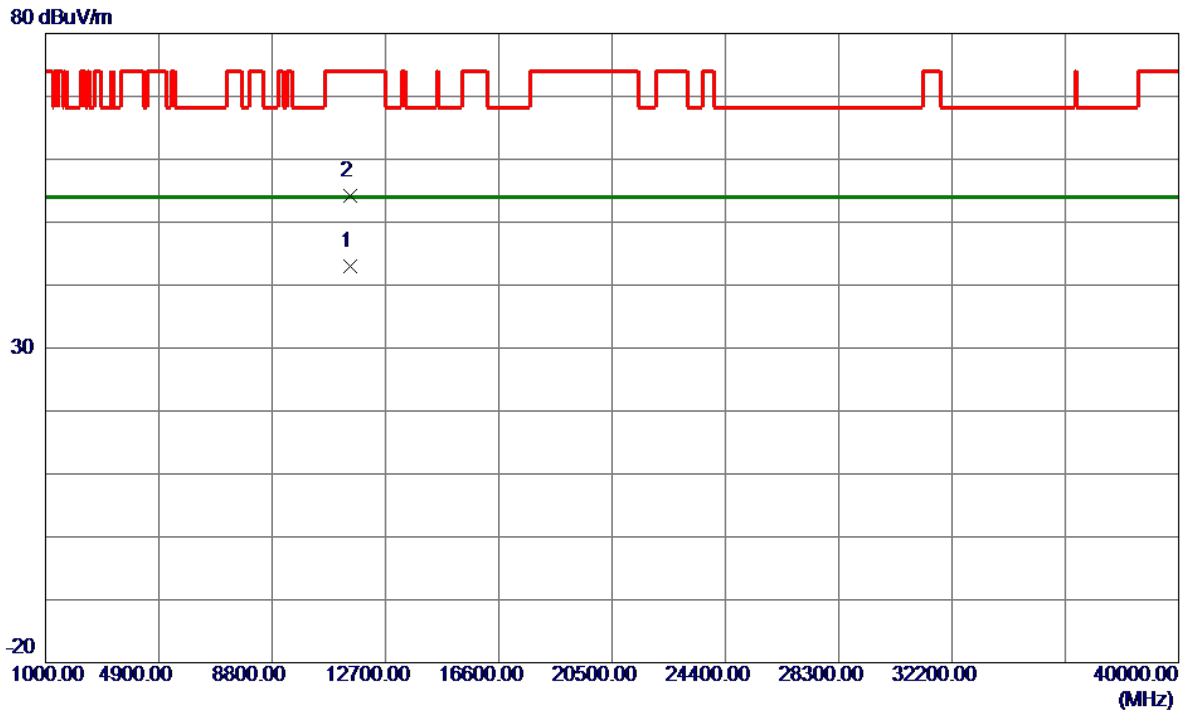


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	37.28	16.55	53.83	109.40	-55.57	Peak	
2	5725.0000	36.80	16.57	53.37	122.20	-68.83	Peak	
3 *	5743.2000	90.47	16.60	107.07	122.20	-15.13	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical
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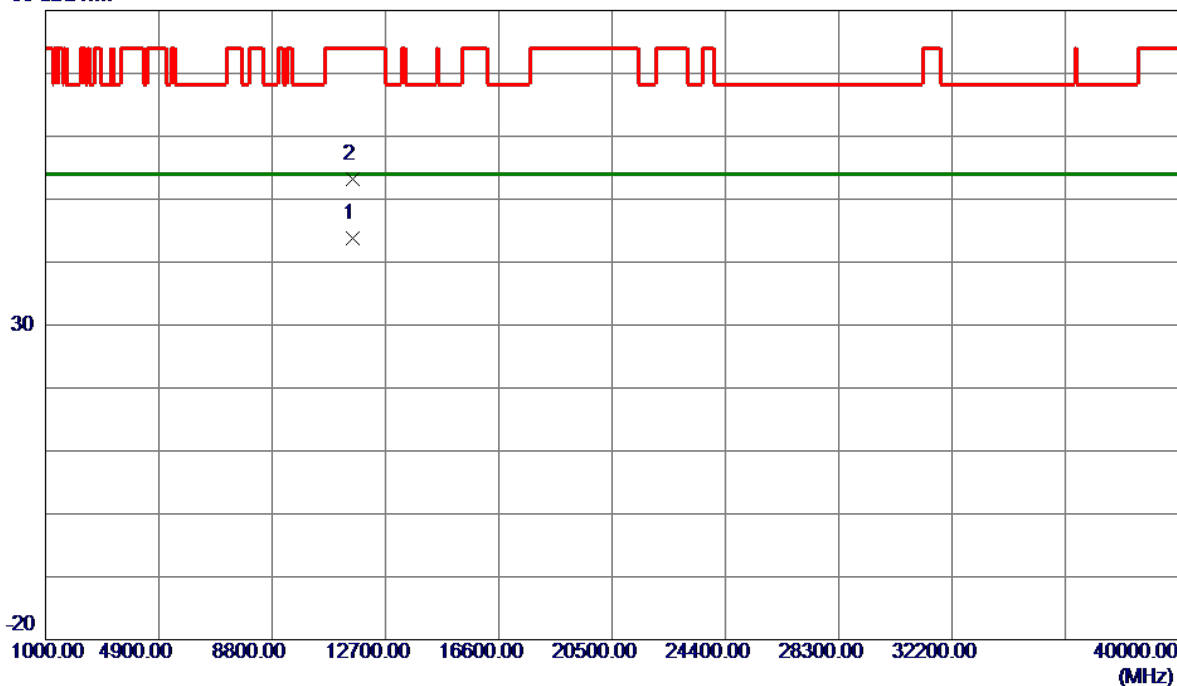
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.5500	29.71	13.34	43.05	54.00	-10.95	AVG	
2	11491.0500	40.85	13.34	54.19	74.00	-19.81	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical
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80 dBuV/m

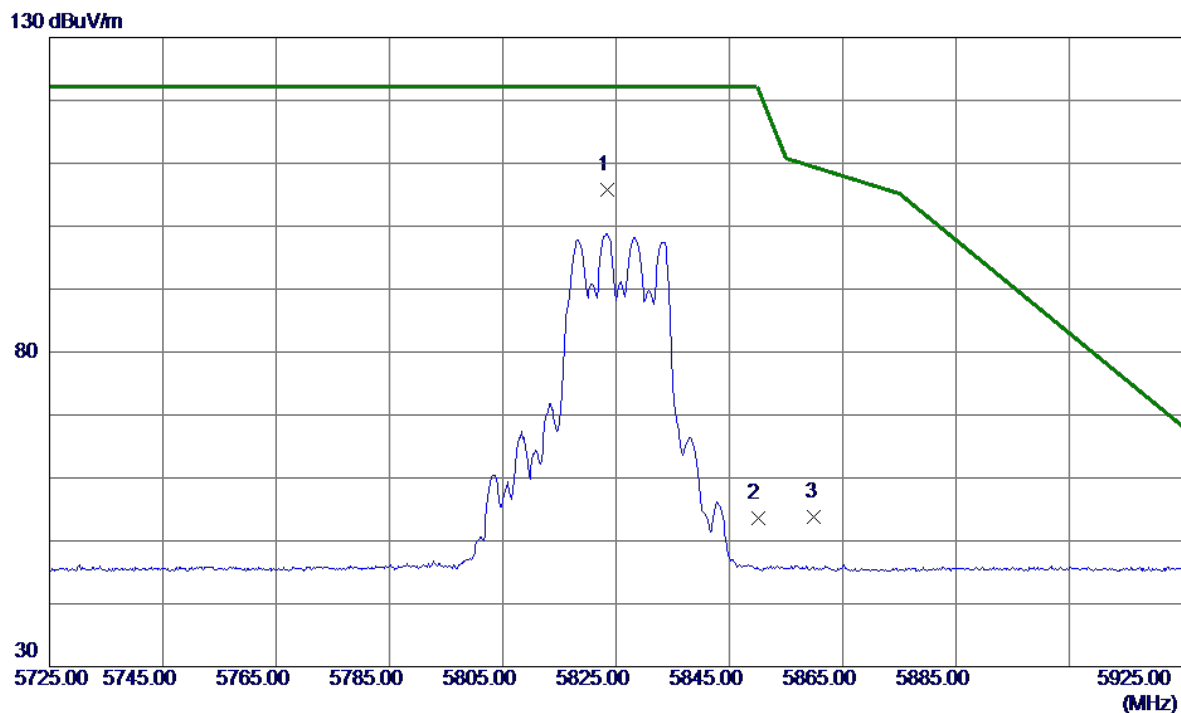


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.9000	30.46	13.37	43.83	54.00	-10.17	AVG	
2	11571.5500	39.83	13.37	53.20	74.00	-20.80	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
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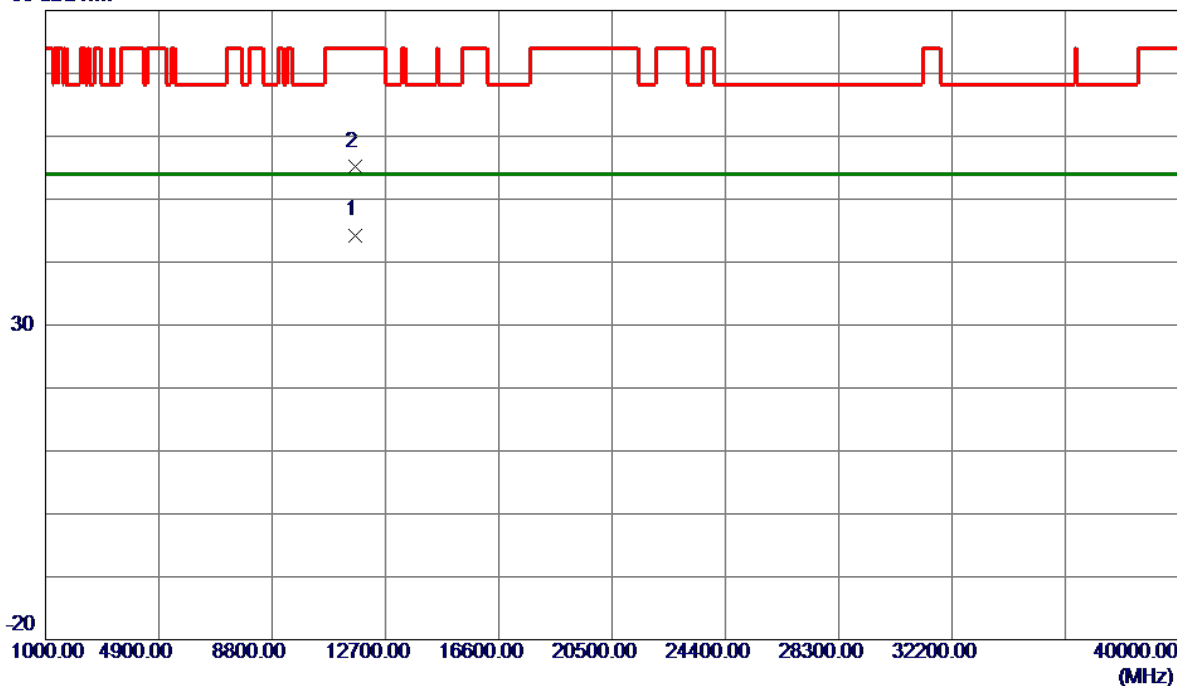
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.4000	89.14	16.74	105.88	122.20	-16.32	Peak	No Limit
2	5850.0000	36.77	16.79	53.56	122.20	-68.64	Peak	
3	5860.0000	36.97	16.81	53.78	109.40	-55.62	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
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80 dBuV/m

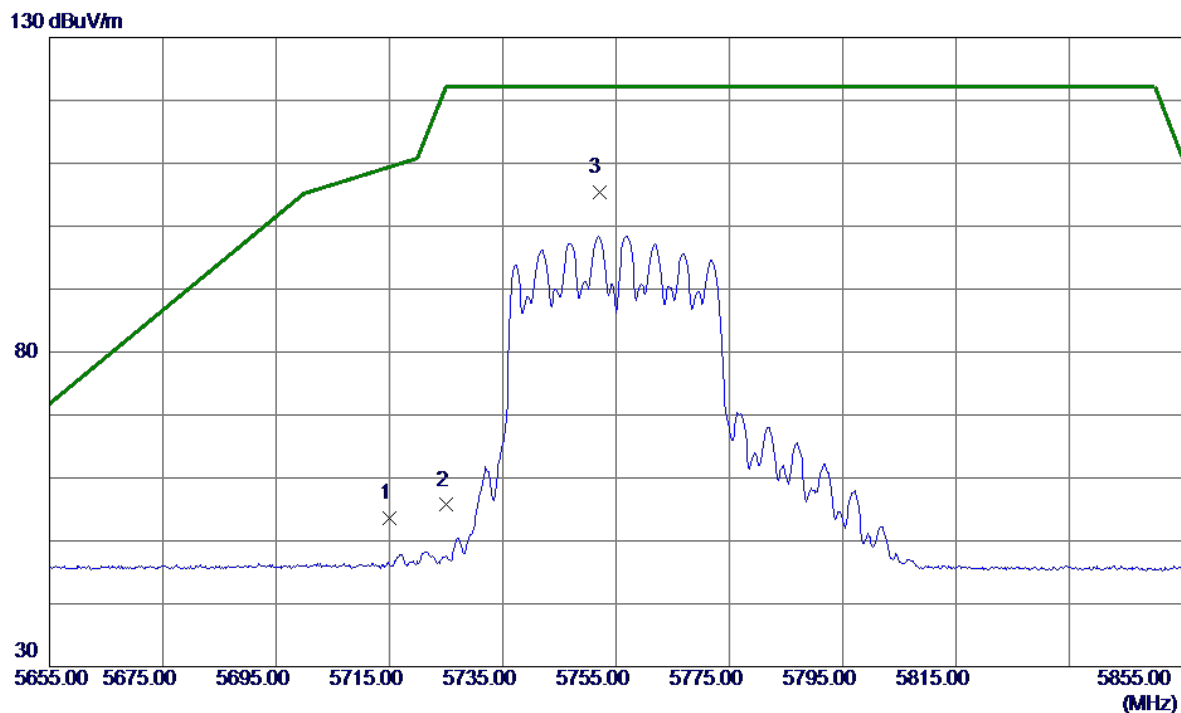


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11647.9000	30.91	13.39	44.30	54.00	-9.70	AVG	
2	11648.3500	41.86	13.39	55.25	74.00	-18.75	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical
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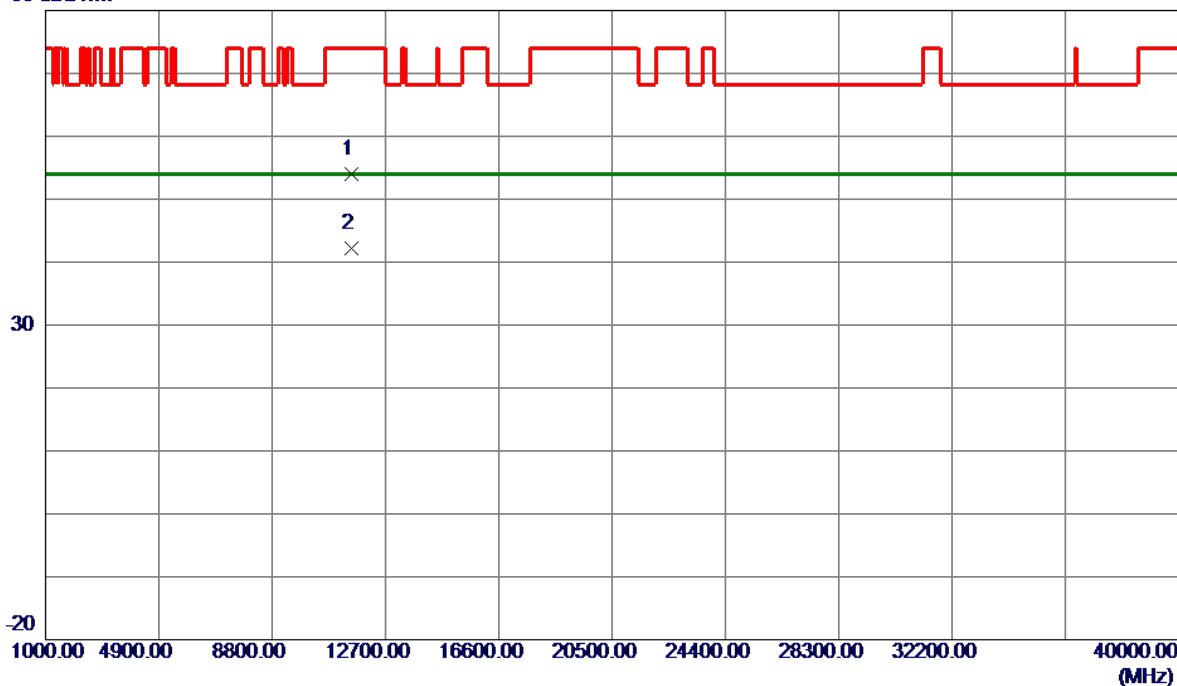
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	37.01	16.55	53.56	109.40	-55.84	Peak	
2	5725.0000	39.13	16.57	55.70	122.20	-66.50	Peak	
3 *	5752.0000	88.87	16.62	105.49	122.20	-16.71	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical
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80 dBuV/m

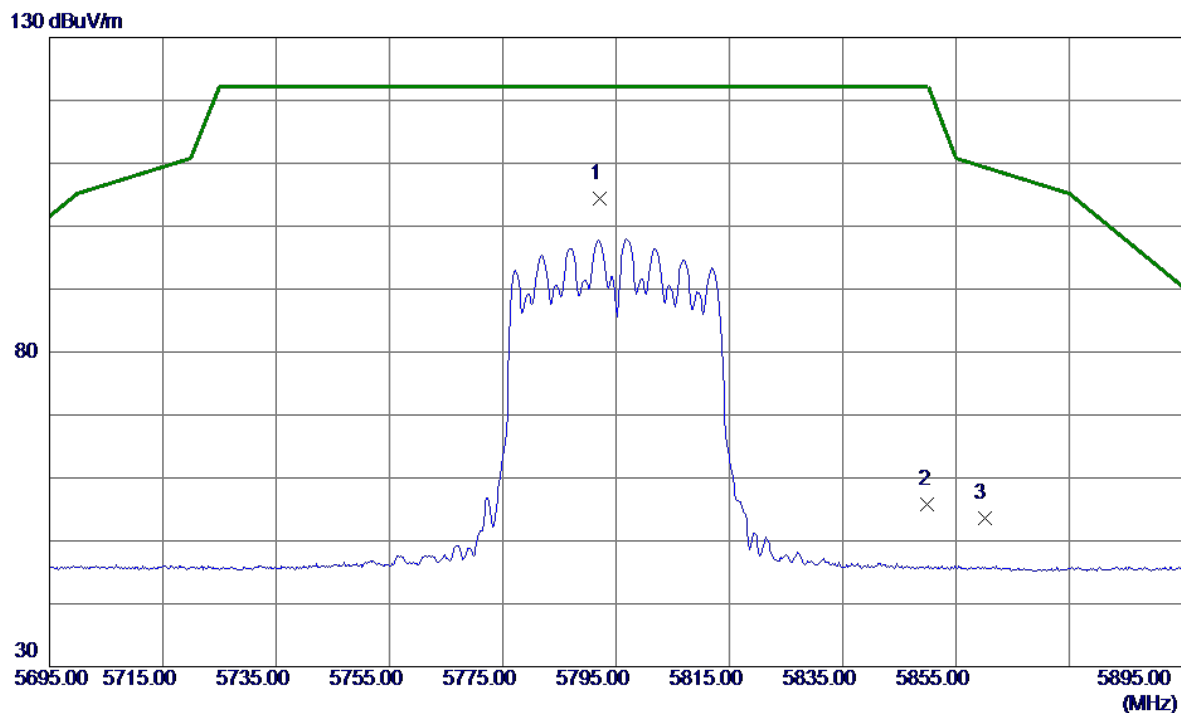


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11510.5800	40.64	13.36	54.00	74.00	-20.00	Peak	
2 *	11510.7000	28.93	13.36	42.29	54.00	-11.71	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical
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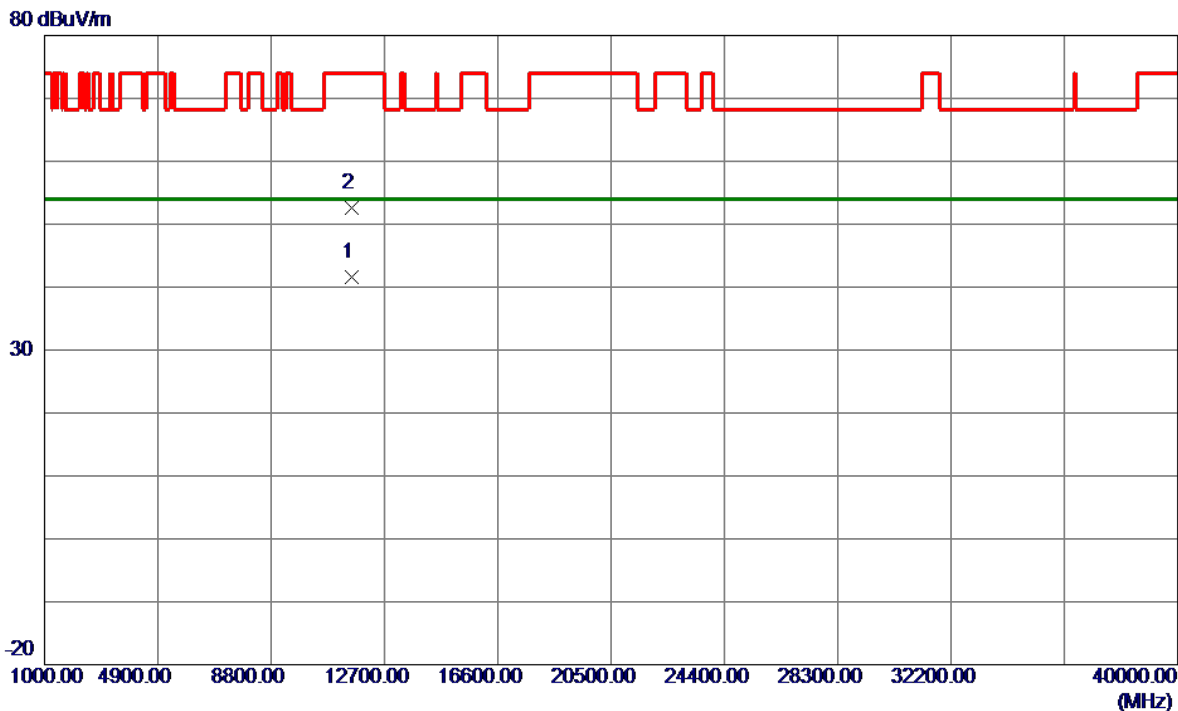


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5792.2000	87.72	16.69	104.41	122.20	-17.79	Peak	No Limit
2	5850.0000	38.96	16.79	55.75	122.20	-66.45	Peak	
3	5860.0000	36.82	16.81	53.63	109.40	-55.77	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical
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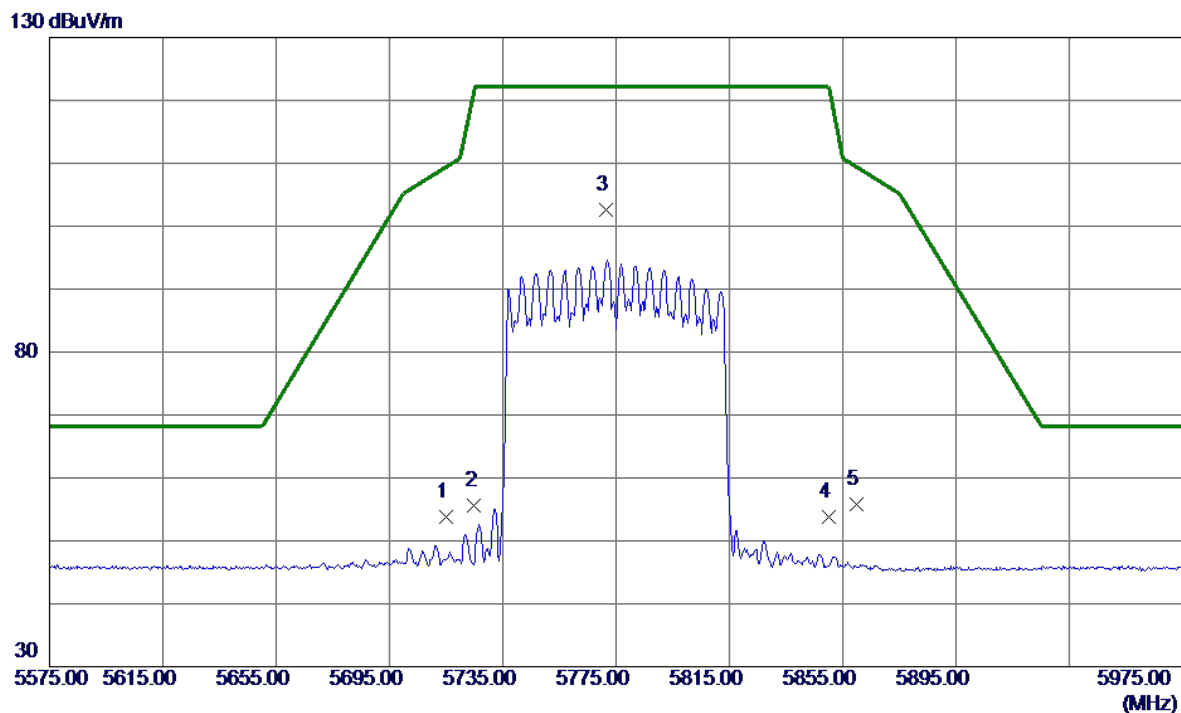


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11586.0000	28.16	13.37	41.53	54.00	-12.47	AVG	
2	11591.3400	39.15	13.38	52.53	74.00	-21.47	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical
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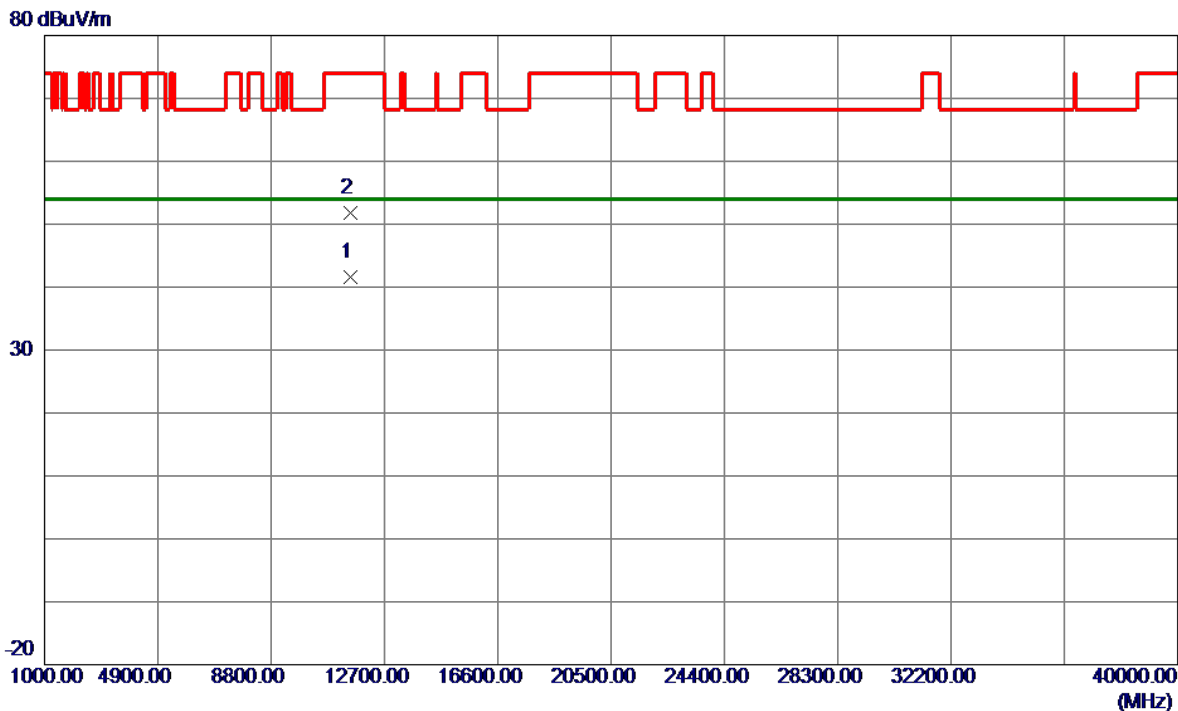


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	37.33	16.55	53.88	109.40	-55.52	Peak	
2	5725.0000	39.03	16.57	55.60	122.20	-66.60	Peak	
3 *	5771.4000	85.92	16.65	102.57	122.20	-19.63	Peak	No Limit
4	5850.0000	37.00	16.79	53.79	122.20	-68.41	Peak	
5	5860.0000	38.93	16.81	55.74	109.40	-53.66	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical
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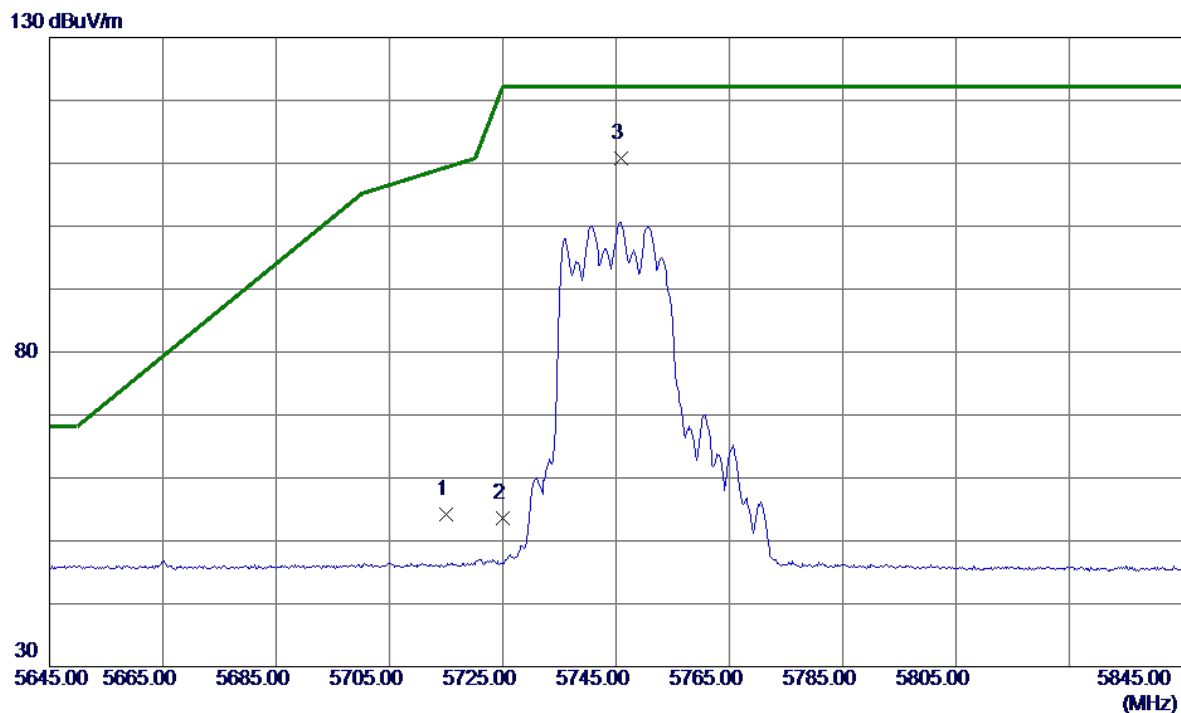


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11545.8800	28.26	13.37	41.63	54.00	-12.37	AVG	
2	11551.6600	38.46	13.37	51.83	74.00	-22.17	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE20) Mode 5745 MHz	Polarization	Vertical
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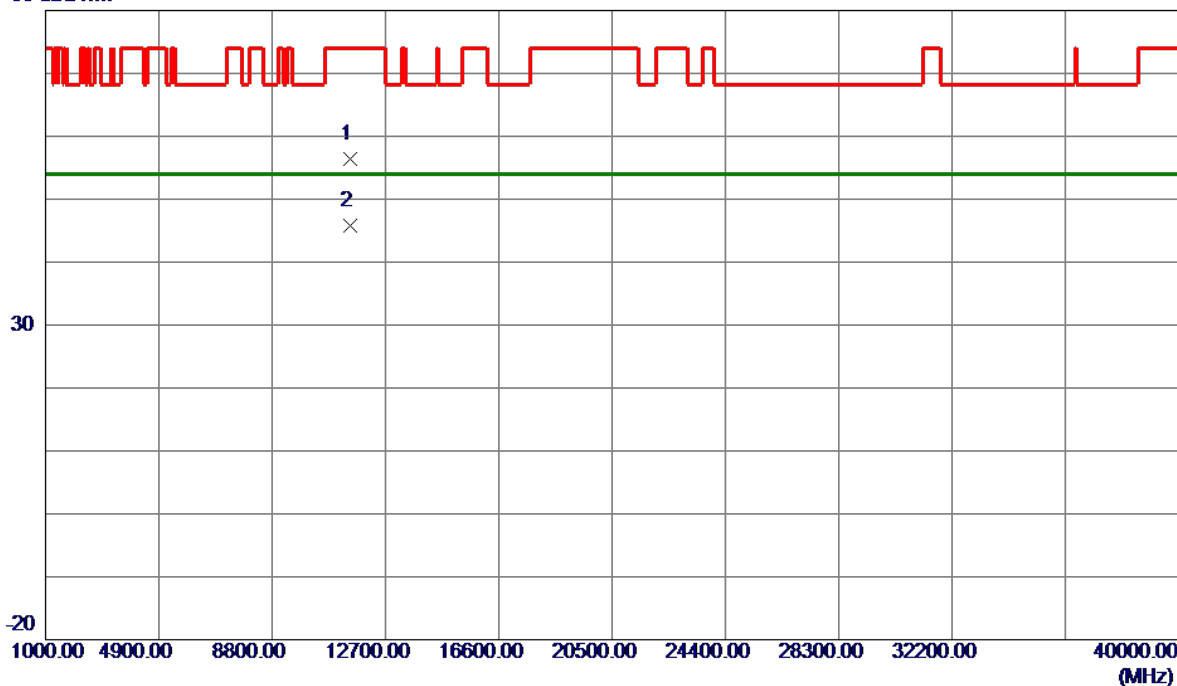
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	37.58	16.55	54.13	109.40	-55.27	Peak	
2	5725.0000	37.08	16.57	53.65	122.20	-68.55	Peak	
3 *	5745.8000	94.25	16.60	110.85	122.20	-11.35	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE20) Mode 5745 MHz	Polarization	Vertical
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80 dBuV/m



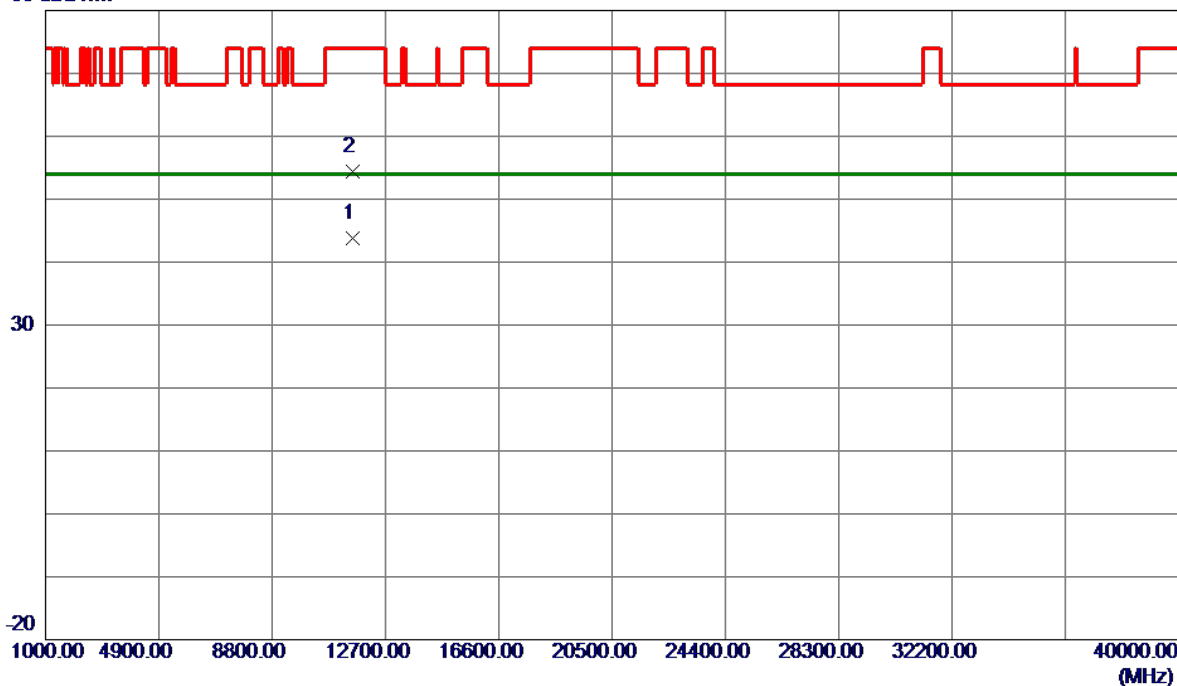
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11490.0000	43.14	13.34	56.48	74.00	-17.52	Peak	
2 *	11490.4600	32.46	13.34	45.80	54.00	-8.20	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE20) Mode 5785 MHz	Polarization	Vertical
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80 dBuV/m

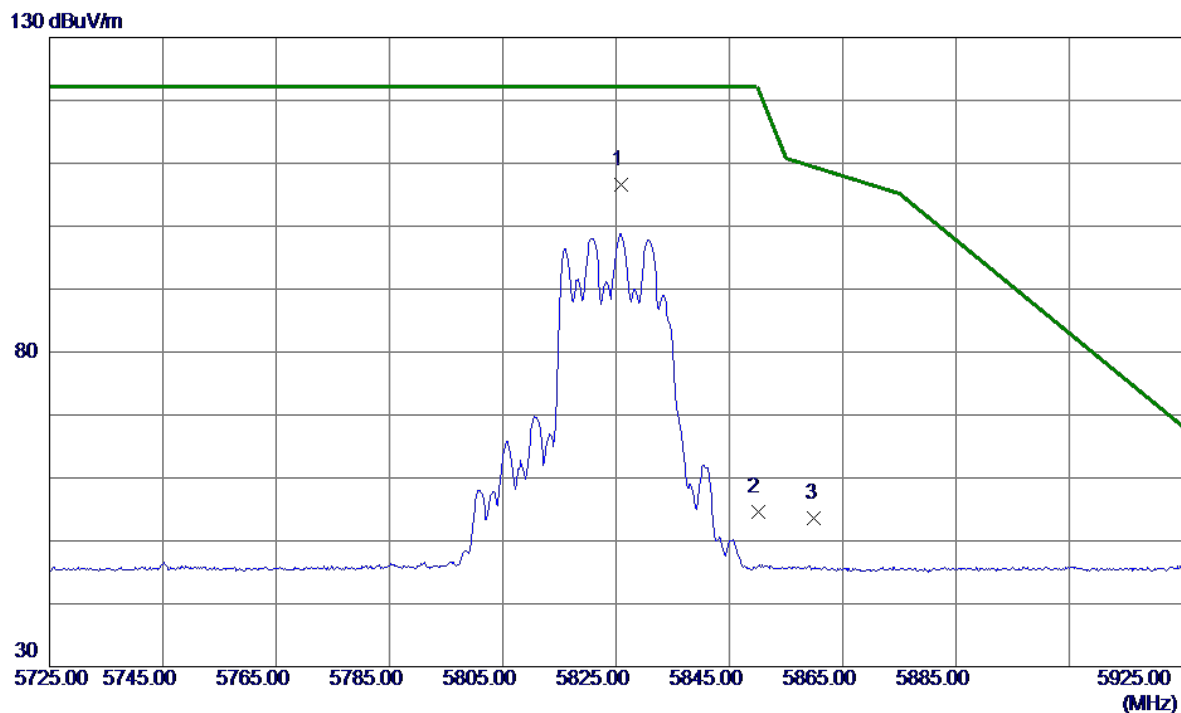


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11569.8200	30.47	13.37	43.84	54.00	-10.16	AVG	
2	11570.5599	41.03	13.37	54.40	74.00	-19.60	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE20) Mode 5825 MHz	Polarization	Vertical
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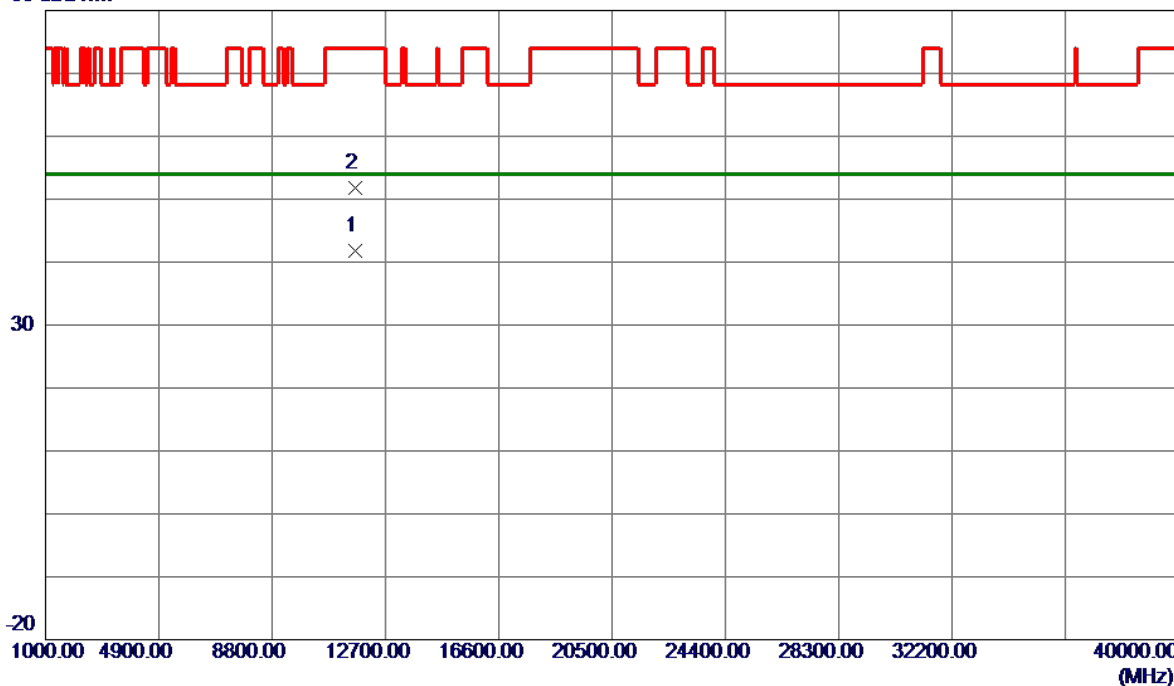
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5825.8000	89.90	16.75	106.65	122.20	-15.55	Peak	No Limit
2	5850.0000	37.75	16.79	54.54	122.20	-67.66	Peak	
3	5860.0000	36.72	16.81	53.53	109.40	-55.87	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE20) Mode 5825 MHz	Polarization	Vertical
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80 dBuV/m

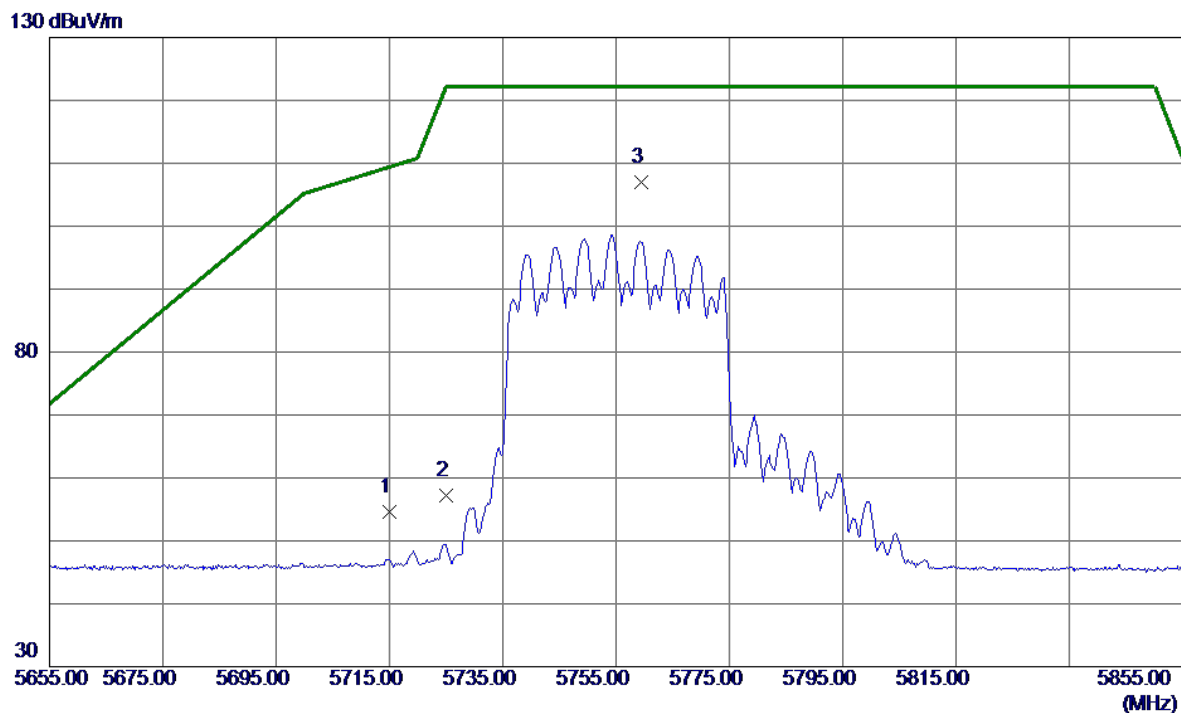


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11648.5000	28.49	13.39	41.88	54.00	-12.12	AVG	
2	11653.6600	38.41	13.39	51.80	74.00	-22.20	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE40) Mode 5755 MHz	Polarization	Vertical
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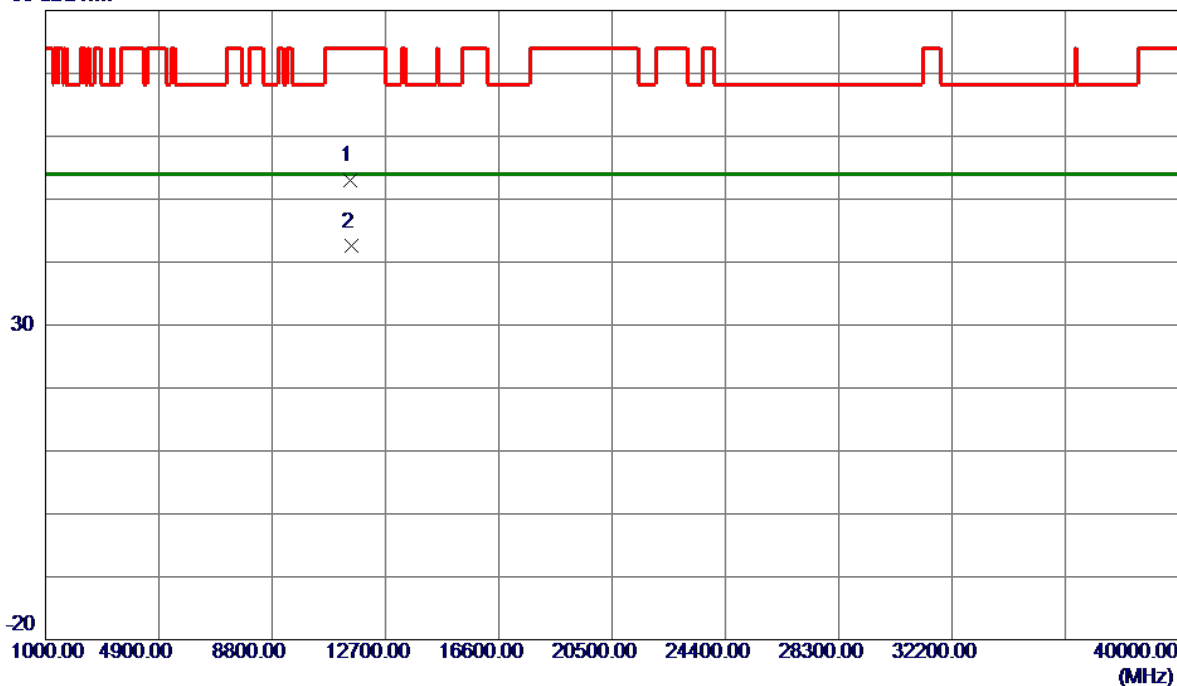
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	38.04	16.55	54.59	109.40	-54.81	Peak	
2	5725.0000	40.57	16.57	57.14	122.20	-65.06	Peak	
3 *	5759.4000	90.34	16.63	106.97	122.20	-15.23	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE40) Mode 5755 MHz	Polarization	Vertical
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80 dBuV/m

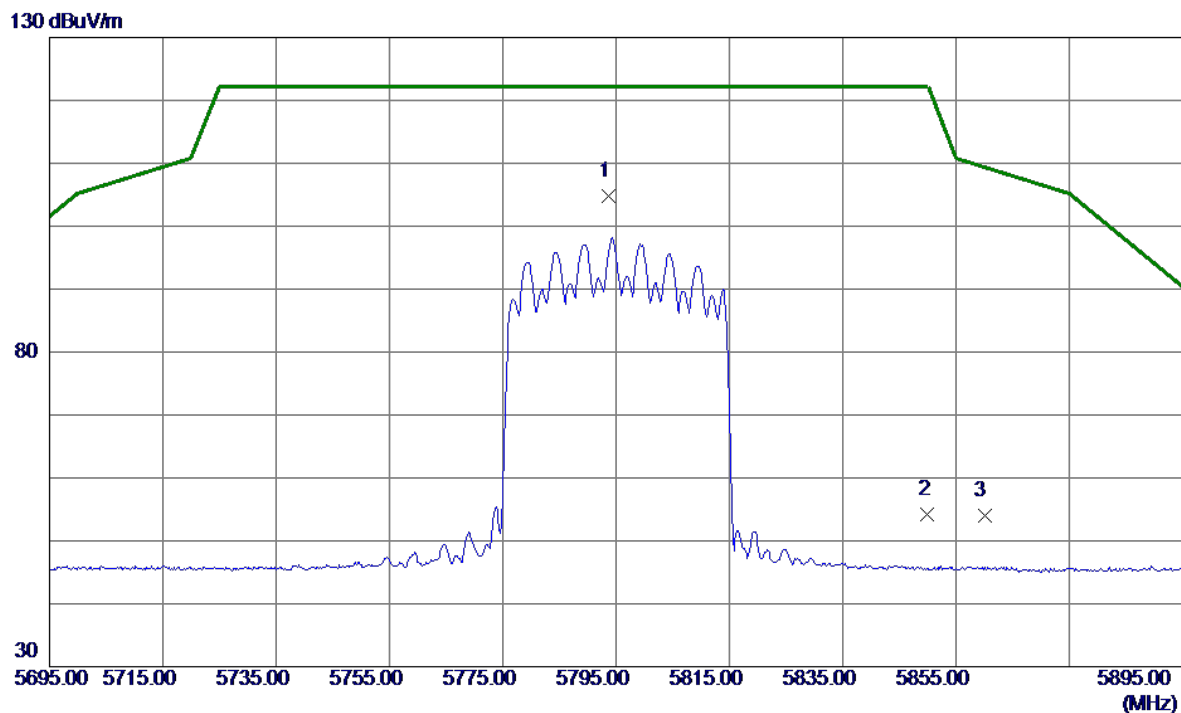


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11508.1800	39.59	13.36	52.95	74.00	-21.05	Peak	
2 *	11510.5800	29.14	13.36	42.50	54.00	-11.50	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE40) Mode 5795 MHz	Polarization	Vertical
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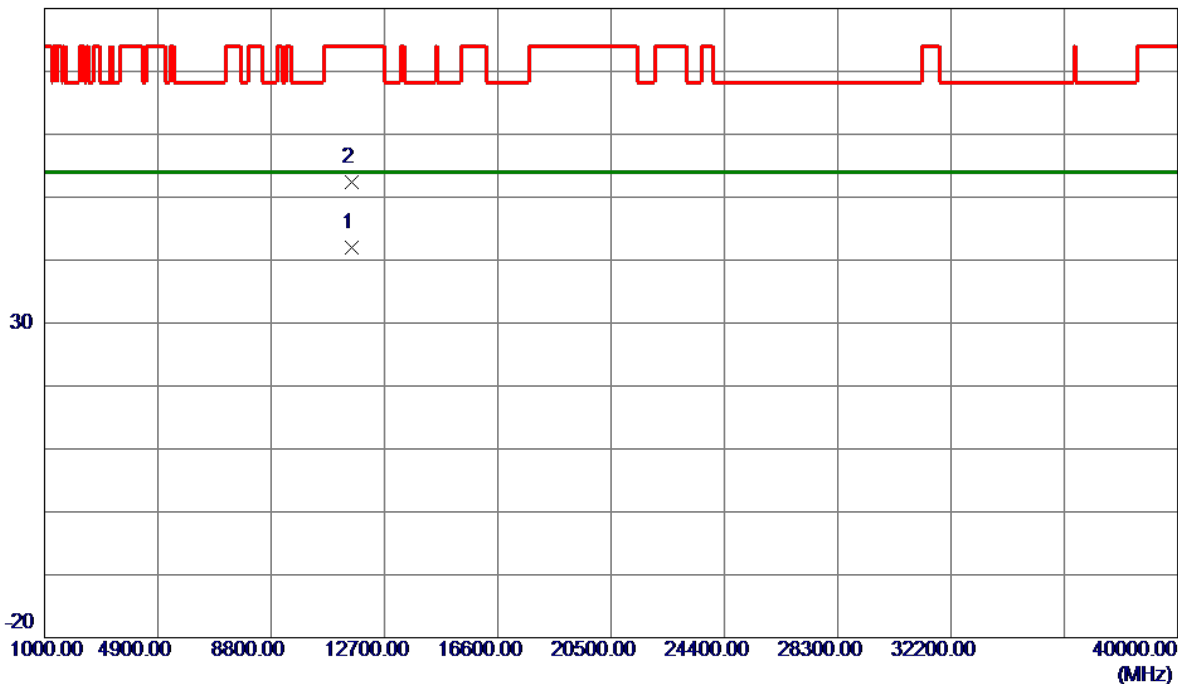
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5793.6000	88.04	16.69	104.73	122.20	-17.47	Peak	No Limit
2	5850.0000	37.37	16.79	54.16	122.20	-68.04	Peak	
3	5860.0000	37.16	16.81	53.97	109.40	-55.43	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE40) Mode 5795 MHz	Polarization	Vertical
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80 dBuV/m

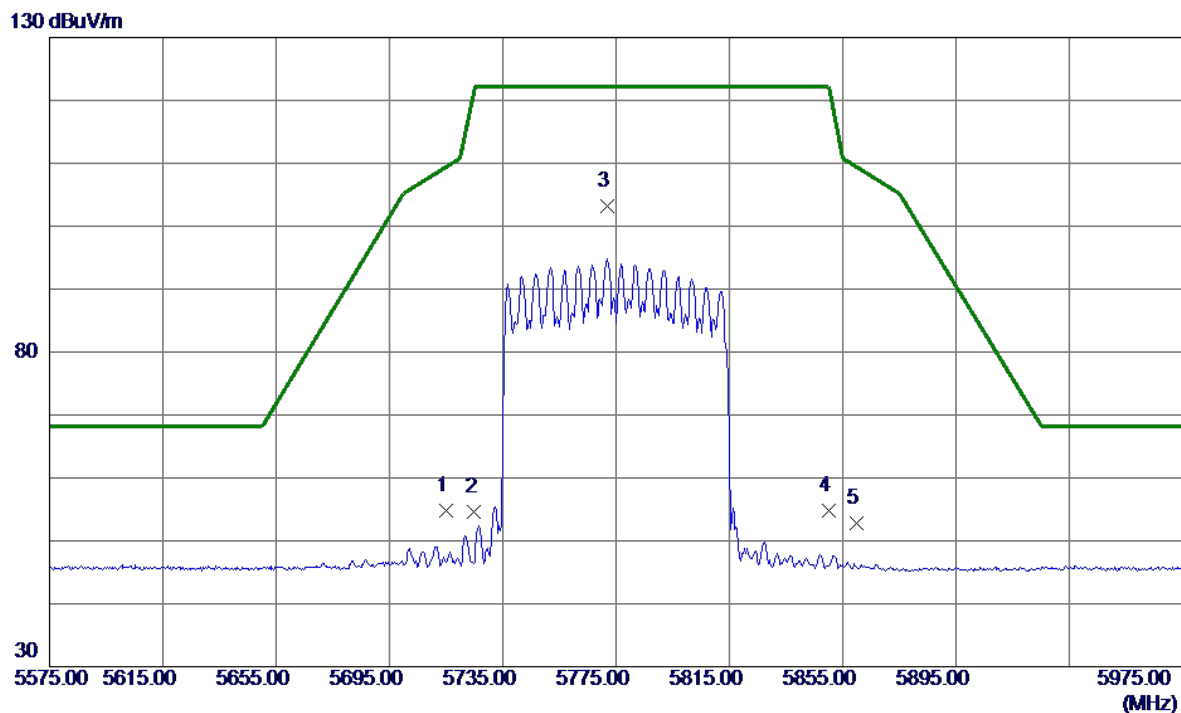


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11585.8800	28.58	13.37	41.95	54.00	-12.05	AVG	
2	11586.1600	39.10	13.37	52.47	74.00	-21.53	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE80) Mode 5775 MHz	Polarization	Vertical
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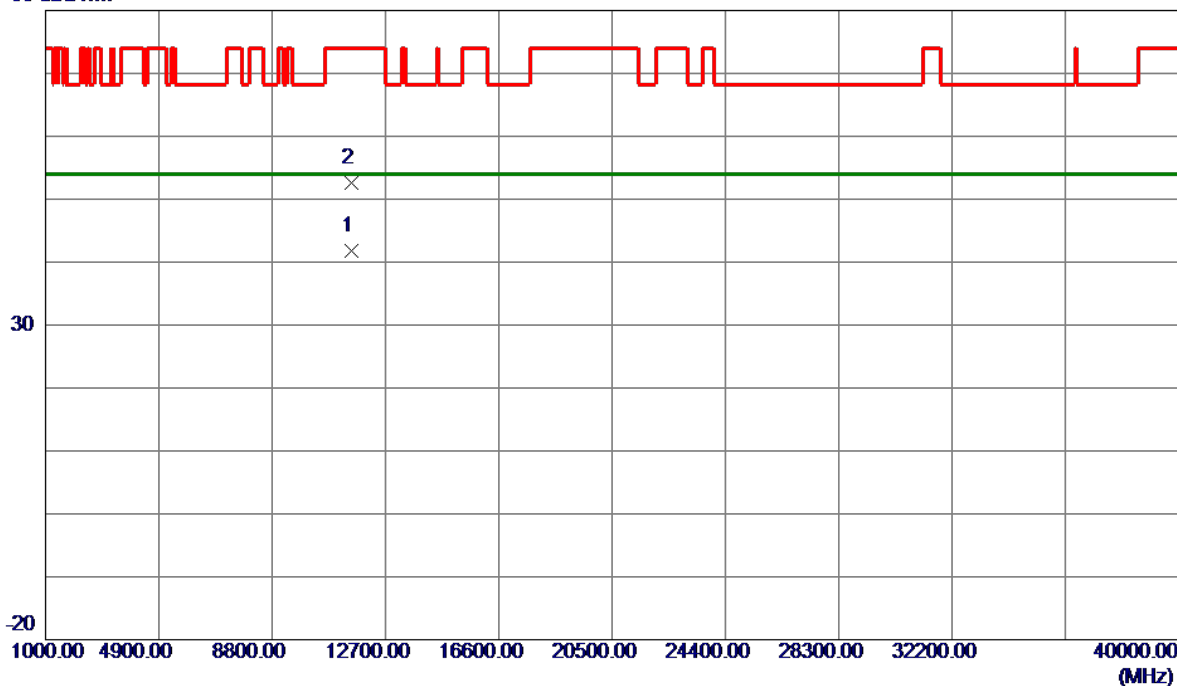
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	38.30	16.55	54.85	109.40	-54.55	Peak	
2	5725.0000	38.04	16.57	54.61	122.20	-67.59	Peak	
3 *	5771.8000	86.52	16.65	103.17	122.20	-19.03	Peak	No Limit
4	5850.0000	38.03	16.79	54.82	122.20	-67.38	Peak	
5	5860.0000	35.90	16.81	52.71	109.40	-56.69	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-3_TX AX(HE80) Mode 5775 MHz	Polarization	Vertical
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11546.0400	28.43	13.37	41.80	54.00	-12.20	AVG	
2	11546.3200	39.19	13.37	52.56	74.00	-21.44	Peak	

REMARKS:

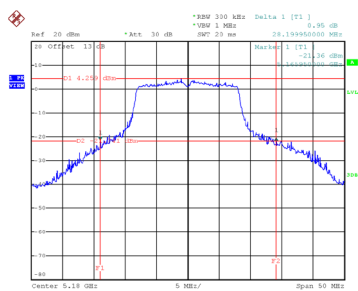
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
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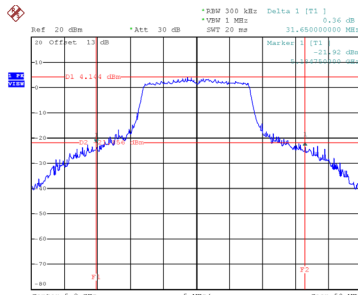
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	28.200	17.200
40	5200	31.650	17.400
48	5240	20.550	17.100

CH36



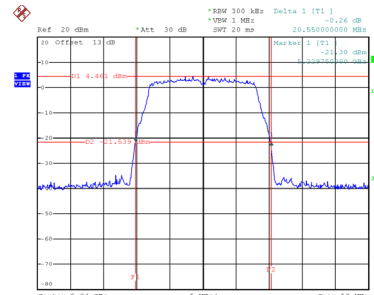
Date: 11.MAY.2022 17:49:02

CH40
26 dB Bandwidth



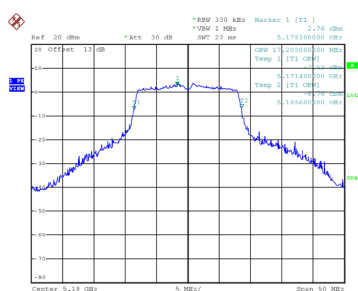
Date: 11.MAY.2022 17:49:52

CH48

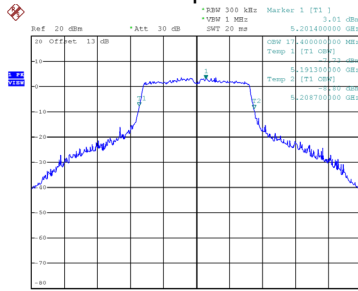


Date: 11.MAY.2022 17:50:51

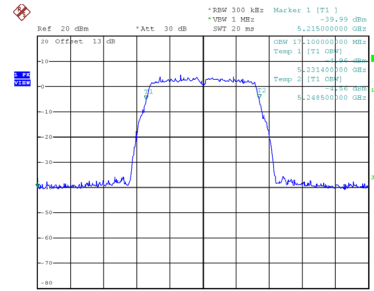
99 % Occupied Bandwidth



Date: 11.MAY.2022 17:49:38



Date: 11.MAY.2022 17:49:34

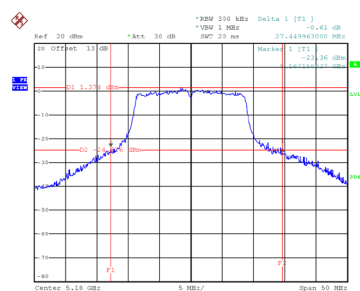


Date: 11.MAY.2022 17:50:27

Test Mode	UNII-1_TX AC(VHT20) Mode
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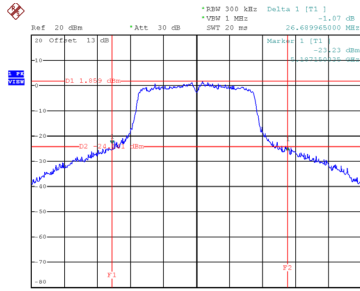
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	27.450	18.200
40	5200	26.690	18.100
48	5240	20.750	18.000

CH36



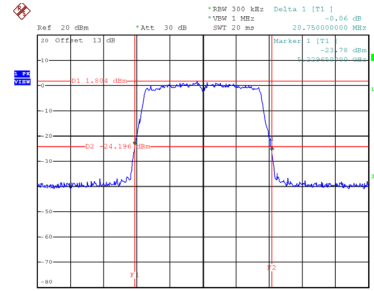
Date: 11.MAY.2022 18:56:39

CH40
26 dB Bandwidth



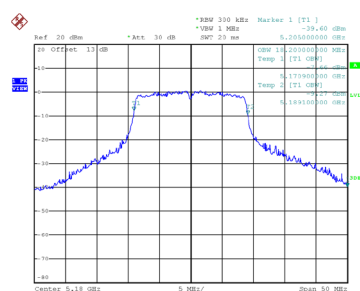
Date: 11.MAY.2022 18:57:51

CH48

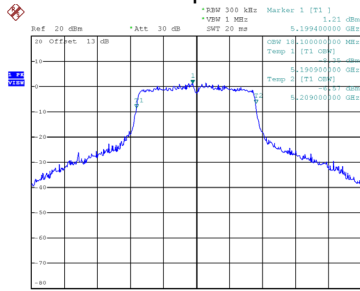


Date: 11.MAY.2022 18:58:30

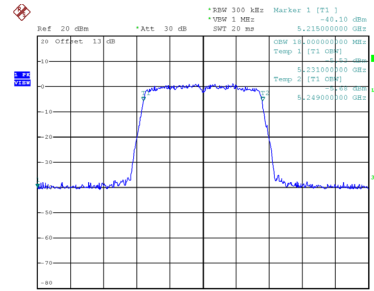
99 % Occupied Bandwidth



Date: 11.MAY.2022 18:56:18



Date: 11.MAY.2022 18:57:28

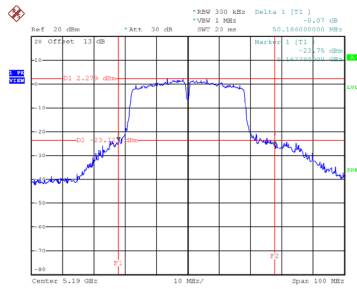


Date: 11.MAY.2022 18:58:07

Test Mode	UNII-1_TX AC(VHT40) Mode
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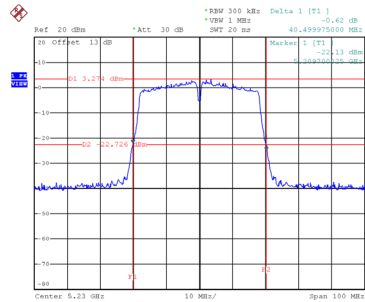
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
38	5190	50.186	37.000
46	5230	40.500	36.800

CH38



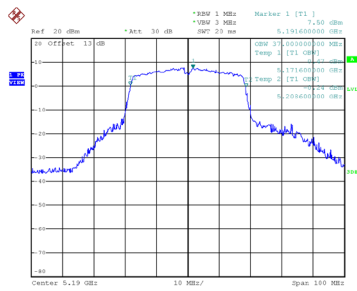
Date: 15.MAY.2022 14:22:48

CH46
26 dB Bandwidth

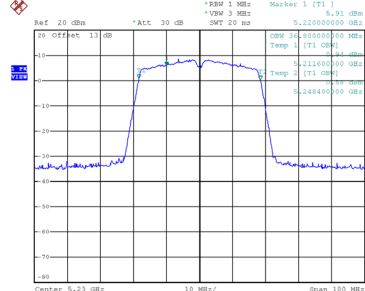


Date: 15.MAY.2022 14:25:07

99 % Occupied Bandwidth



Date: 15.MAY.2022 14:22:01

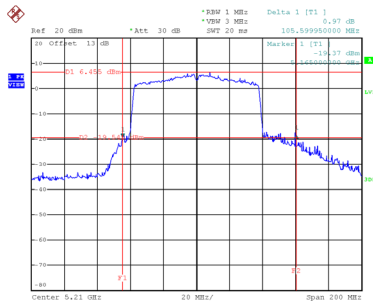


Date: 15.MAY.2022 14:24:43

Test Mode	UNII-1_TX AC(VHT80) Mode
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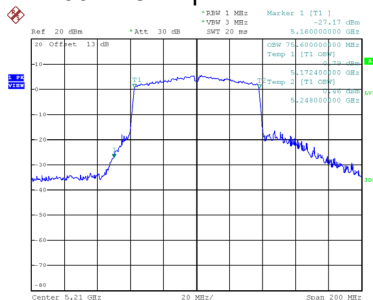
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
42	5210	105.600	75.600

CH42 26 dB Bandwidth



Date: 15.MAY.2022 14:43:30

99 % Occupied Bandwidth



Date: 15.MAY.2022 15:50:02