



FCC Radio Test Report

FCC ID: 2BFXS-J5601

This report concerns: Original Grant

Project No. : 2404G060
Equipment : Pan/Tilt Smart Home Camera
Brand Name : JUOVI
Test Model : J5601
Series Model : N/A
Applicant : ZOWEE TECHNOLOGY (HEYUAN) Co., Ltd
Address : Runye Precision Manufacturing Industrial Park, among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road, located in the High-tech Zone, Heyuan City, Guangdong Province
Manufacturer : ZOWEE TECHNOLOGY (HEYUAN) Co., Ltd
Address : Runye Precision Manufacturing Industrial Park, among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road, located in the High-tech Zone, Heyuan City, Guangdong Province
Factory : ZOWEE TECHNOLOGY (HEYUAN) Co., Ltd
Address : Runye Precision Manufacturing Industrial Park, among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road, located in the High-tech Zone, Heyuan City, Guangdong Province
Date of Receipt : Apr. 15, 2024
Date of Test : Apr. 16, 2024 ~ Apr. 28, 2024
Issued Date : May 13, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024041561 for power, SSL2024041559 for AC power line conducted emissions and radiated emissions below 1000MHz, SSL2024041560 for other items.
Standard(s) : FCC CFR Title 47, Part 15, Subpart E

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

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 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-2-2404G060	R00	Original Report.	May 13, 2024	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

2. 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

2.1 TEST FACILITY

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

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 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	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB02	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36
		26.5 ~ 40 GHz	3.58

C. Other Measurement test:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Power Spectral Density	1.4 dB
Frequency Stability	2.7 ppm
Temperature	0.8 °C
Humidity	2.2 %

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

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	24°C	74%	AC 120V/60Hz	Hayden Chen	Apr. 24, 2024
Radiated Emissions -9kHz to 30MHz	23°C	59%	AC 120V/60Hz	Hayden Chen	Apr. 28, 2024
Radiated Emissions -30MHz to 1000MHz	20°C	55%	AC 120V/60Hz	Chen Mo	Apr. 19, 2024
Radiated Emissions -Above 1000 MHz	21°C	55%	AC 120V/60Hz	Allen Tong	Apr. 27, 2024
Bandwidth	23°C	55%	DC 5V	Hayden Chen	Apr. 24, 2024
Maximum Output Power	22-23°C	53-61%	DC 5V	Oliver Wang	Apr. 24, 2024- Apr. 28, 2024
Power Spectral Density	23°C	55%	DC 5V	Hayden Chen	Apr. 24, 2024
Frequency Stability	Normal & Extreme	55%	Normal & Extreme	Hayden Chen	Apr. 24, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Pan/Tilt Smart Home Camera
Brand Name	JUOVI
Test Model	J5601
Series Model	N/A
Model Difference(s)	N/A
HVIN	MA1811C-4336-E
FVIN	105
Power Source	DC voltage supplied from AC adapter. Model: TPA-46B050100UU
Power Rating	I/P: 100-240V~ 50/60Hz 0.2A O/P: 5.0V  1000mA
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n: OFDM
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps
Maximum Output Power UNII-1	IEEE 802.11a: 19.04 dBm (0.0802 W)
Maximum Output Power UNII-2A	IEEE 802.11n(HT20): 19.20 dBm (0.0832 W)
Maximum Output Power UNII-2C	IEEE 802.11a: 19.21 dBm (0.0834 W)
Maximum Output Power UNII-3	IEEE 802.11n(HT20): 19.19 dBm (0.0830 W)

Note:

1. 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)			
UNII-1		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260
40	5200	56	5280
44	5220	60	5300
48	5240	64	5320

IEEE 802.11a, IEEE 802.11n(HT20)			
UNII-2C		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	149	5745
104	5520	153	5765
108	5540	157	5785
112	5560	161	5805
116	5580	165	5825
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	NHAIT	549AA-HT-0412-2	FPC	N/A	3.77

3.2 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 A Mode Channel 52/60/64 (UNII-2A)
Mode 4	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 5	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 6	TX N(HT20) Mode Channel 100/116/140 (UNII-2C)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX A Mode Channel 140 (UNII-2C)

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 9	TX A Mode Channel 140 (UNII-2C)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 9	TX A Mode Channel 140 (UNII-2C)

Radiated Emissions Test - Above 1GHz	
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 A Mode Channel 52/60/64 (UNII-2A)
Mode 4	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 5	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 6	TX N(HT20) Mode Channel 100/116/140 (UNII-2C)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)

Conducted Test	
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 A Mode Channel 52/60/64 (UNII-2A)
Mode 4	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 5	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 6	TX N(HT20) Mode Channel 100/116/140 (UNII-2C)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)

Note:

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX A Mode Channel 140 (UNII-2C) 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) For radiated emission Harmonic 18-40GHz test, only tested the worst case and recorded.
- (4) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (5) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	18	18.5	18.5
IEEE 802.11n(HT20)	18	18.5	18.5

UNII-2A			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	17.5	18.5	18.5
IEEE 802.11n(HT20)	18.5	18.5	18.5

UNII-2C			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5500	5580	5700
IEEE 802.11a	18.5	18.5	18.5
IEEE 802.11n(HT20)	18.5	18.5	18.5

UNII-3			
Test Software Version	IPOP_V4.0		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	18.5	17.5	17.5
IEEE 802.11n(HT20)	18.5	18.5	18

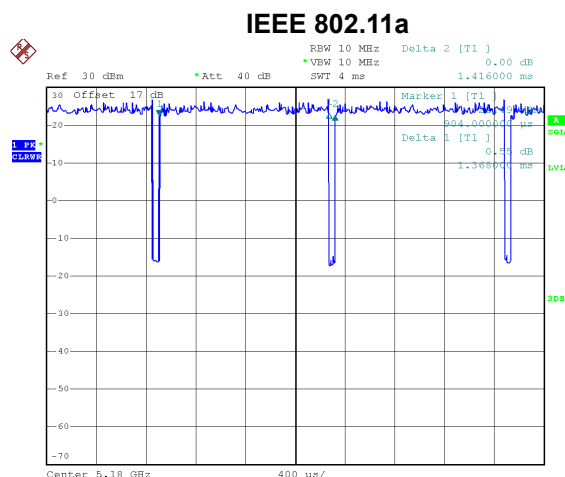
3.4 DUTY CYCLE

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.

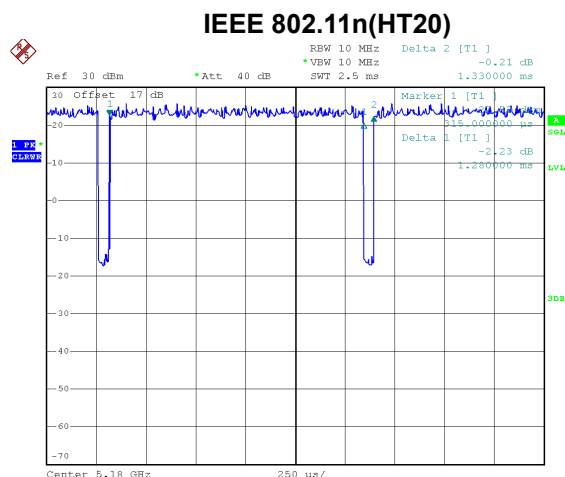
The power spectral density = measured power spectral density + duty factor.



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Duty cycle = $1.368 \text{ ms} / 1.416 \text{ ms} = 96.61\%$

Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.15$



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Duty cycle = $1.280 \text{ ms} / 1.330 \text{ ms} = 96.24\%$

Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.17$

NOTE:

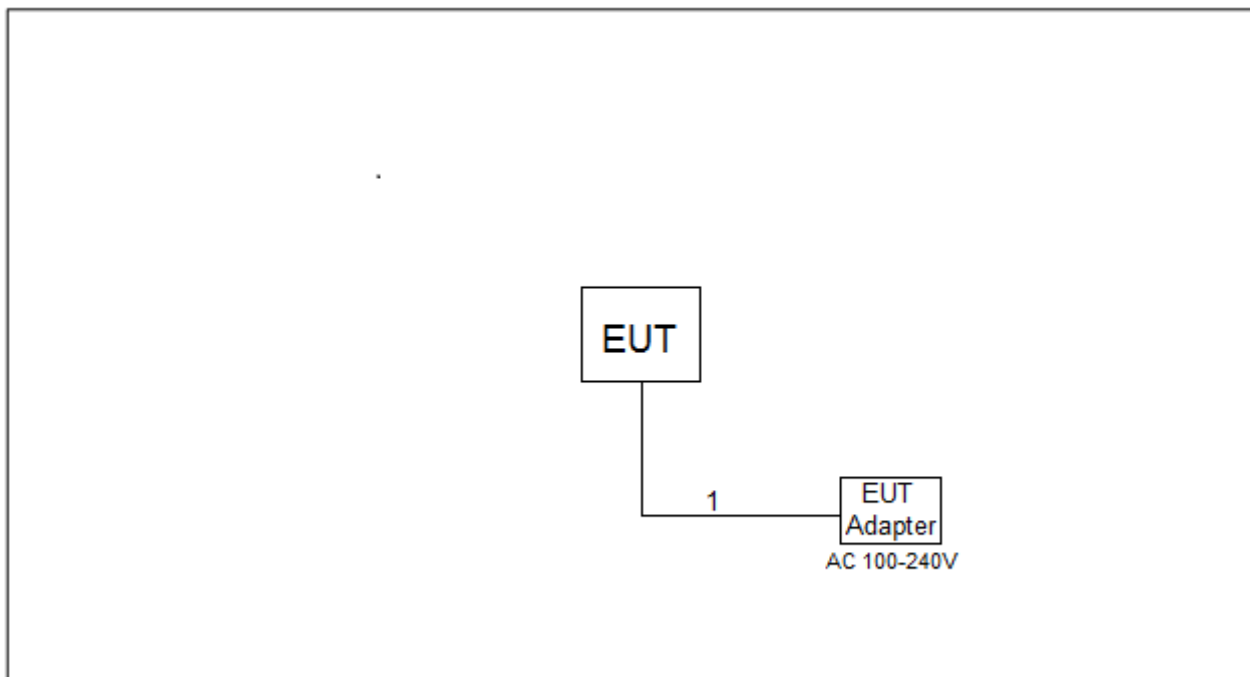
For IEEE 802.11a:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 731 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 781 Hz (Duty cycle $< 98\%$).

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 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.

4.2 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.

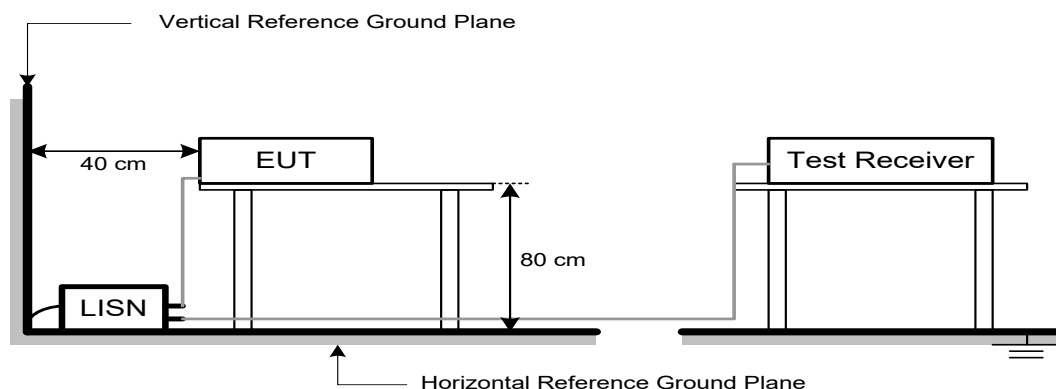
The following table is the setting of the receiver:

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

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP



4.5 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.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 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)	Band edge at 3m (dBμV/m)	Harmonic at 1m (dBμV/m)
5150-5250	-27	68.2	77.7 (Note 3)
5250-5350	-27	68.2	77.7 (Note 3)
5470-5725	-27	68.2	77.7 (Note 3)
5725-5850 NOTE (2)	-27	68.2	77.7 (Note 3)
	10	105.2	114.7 (Note 3)
	15.6	110.8	120.3 (Note 3)
	27	122.2	131.7 (Note 3)

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.

(3)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

$$20\log(d_{\text{limit}}/d_{\text{measure}}) = 20\log(3/1) = 9.5 \text{ dB.}$$

5.2 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 or 1m 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

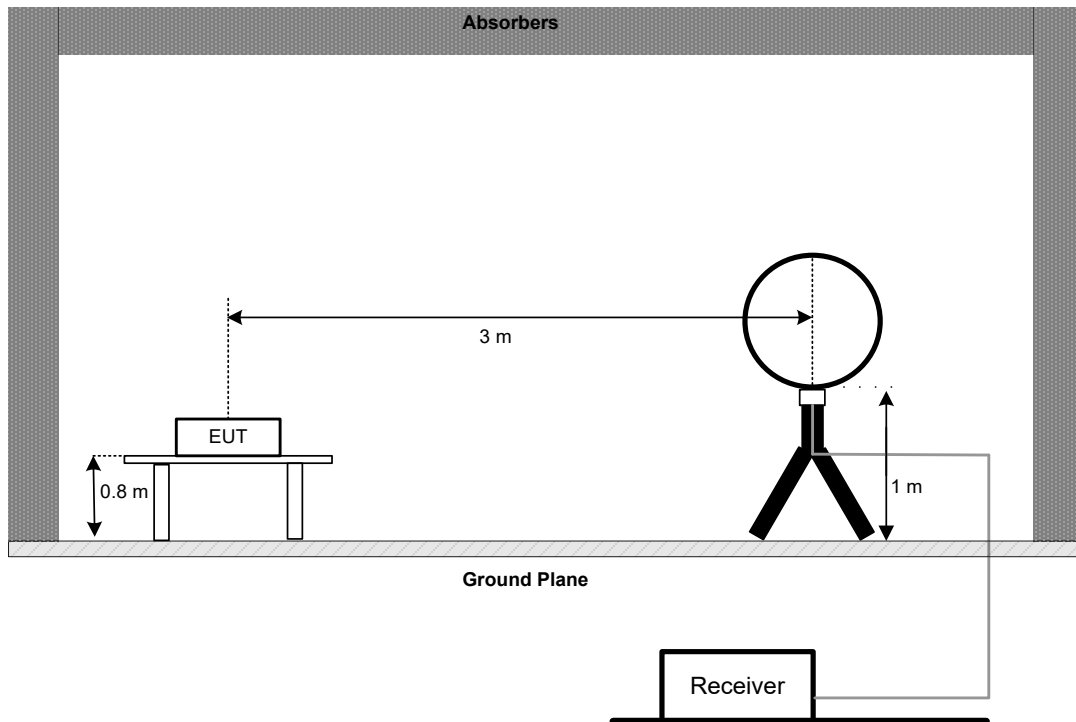
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

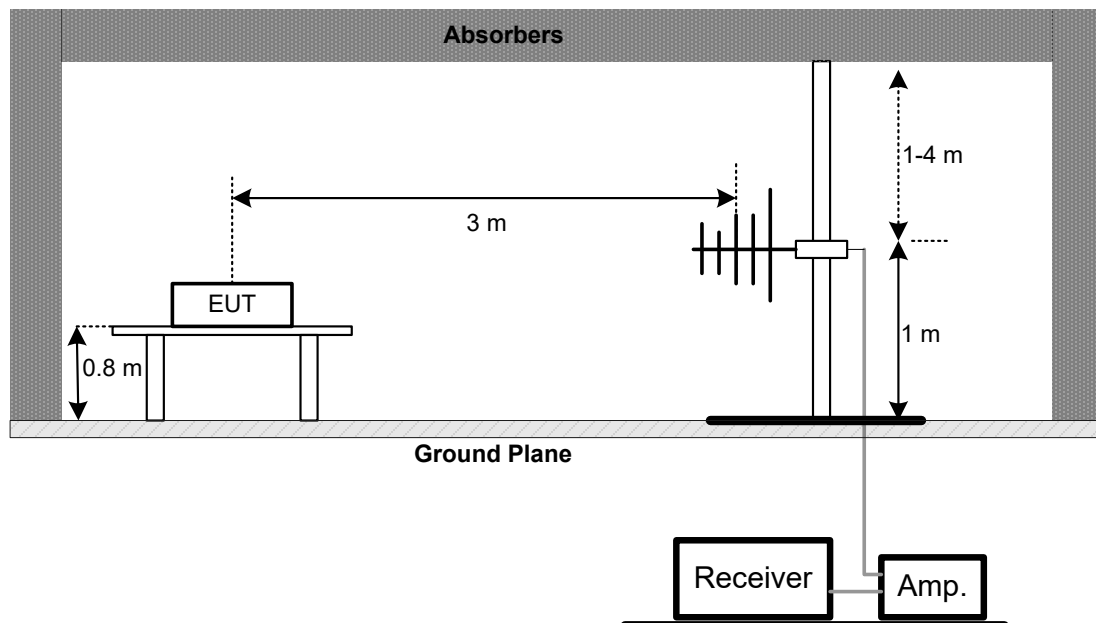
No deviation.

5.4 TEST SETUP

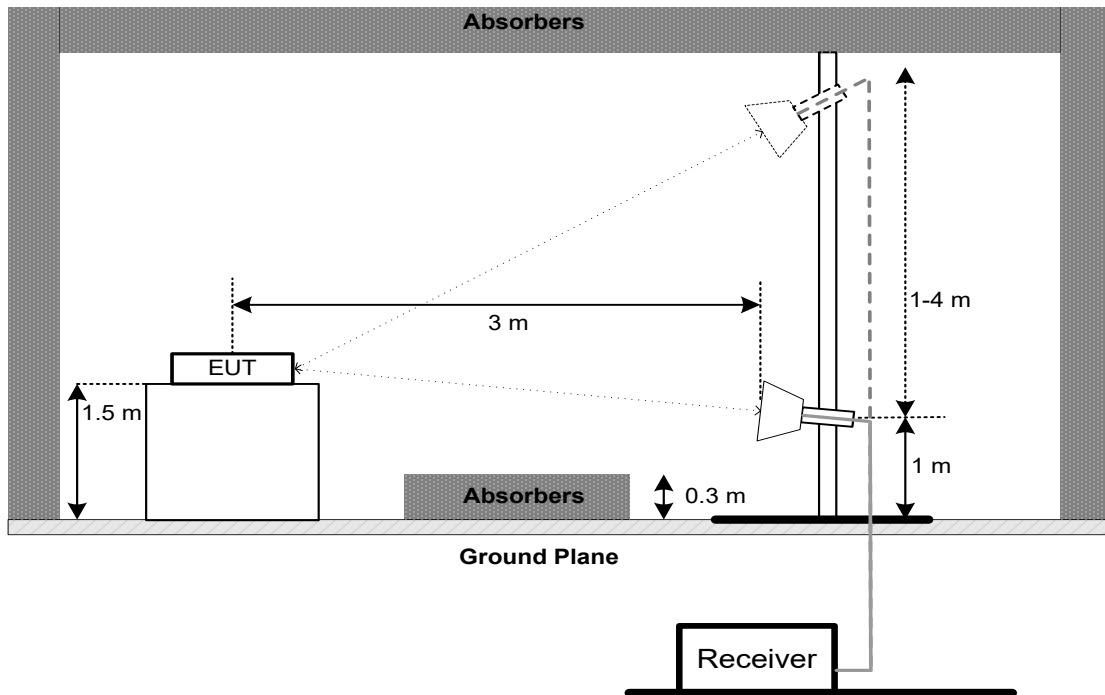
9 kHz to 30 MHz



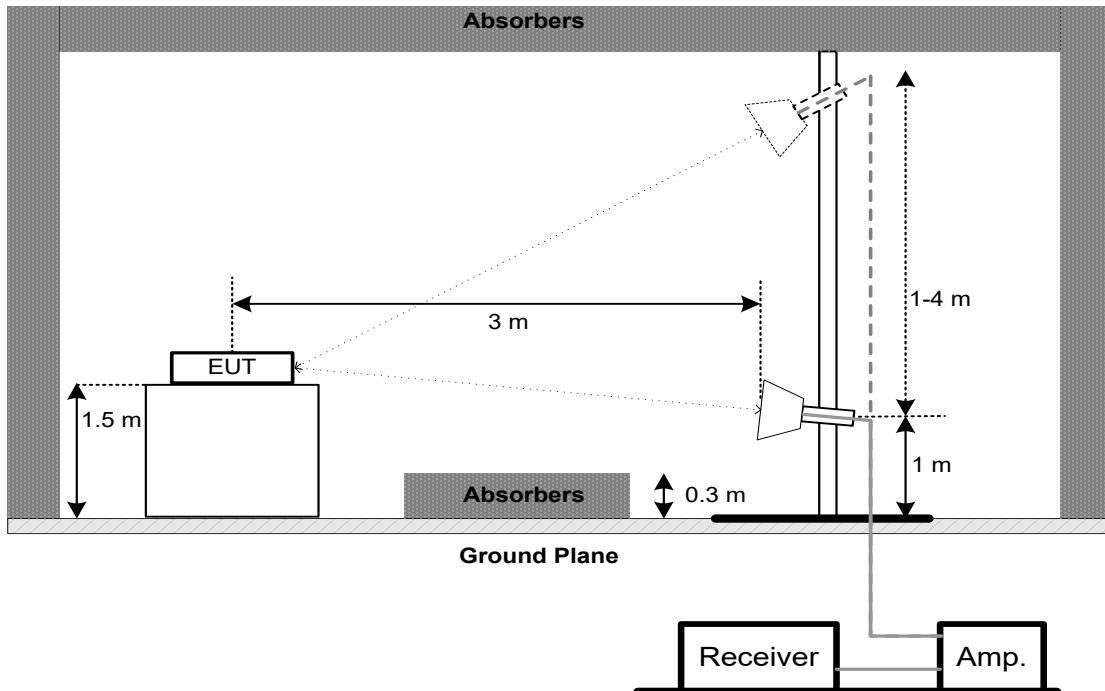
30 MHz to 1 GHz



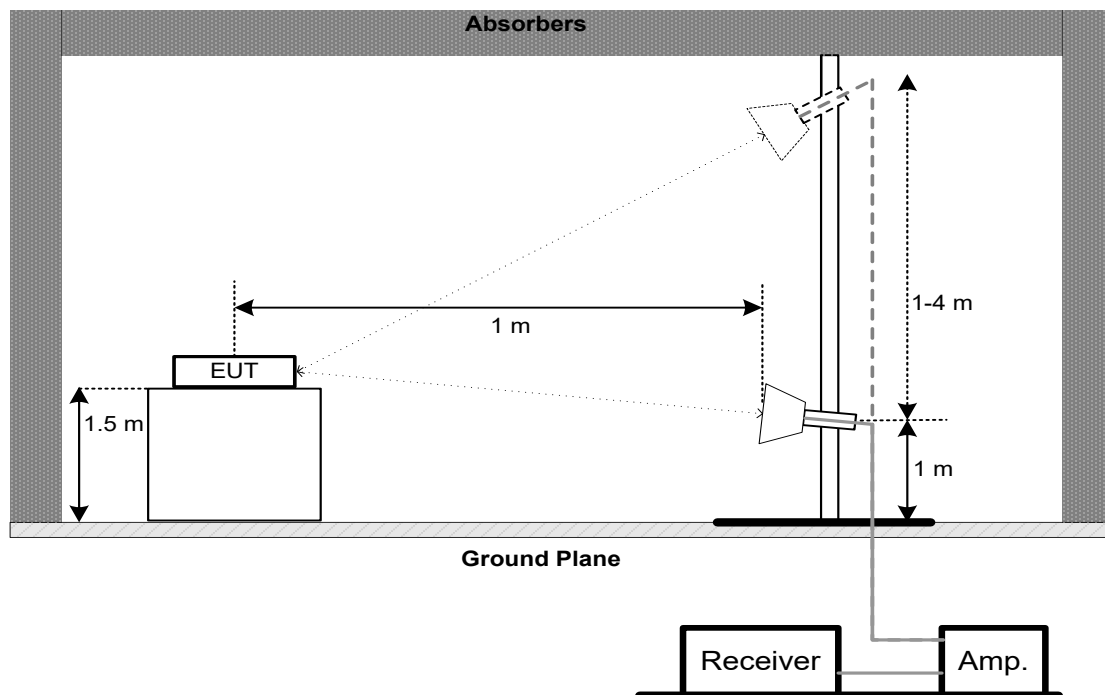
Above 1 GHz Band edge



Harmonic(1 GHz to 18 GHz)



Harmonic(18 GHz to 40 GHz)



5.5 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.

5.6 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.

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 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.

6. BANDWIDTH

6.1 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
	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

6.2 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, UNII-2C:

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.

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 E.

7. MAXIMUM OUTPUT POWER

7.1 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
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 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.

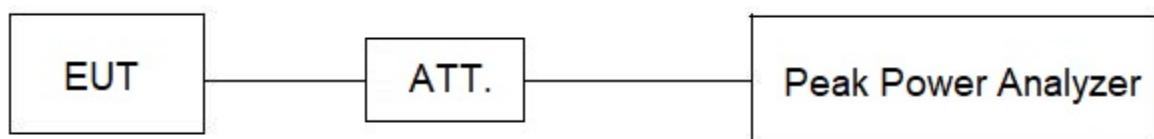
7.2 TEST PROCEDURE

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

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 F.

8. POWER SPECTRAL DENSITY

8.1 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
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

8.2 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, UNII-2C:

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 17 dB, and the final offset is $17 + 7 = 24 \text{ dB}$ when RBW=100kHz is used.

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 G.

9. FREQUENCY STABILITY

9.1 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
			5470-5725
			5725-5850

9.2 TEST PROCEDURE

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

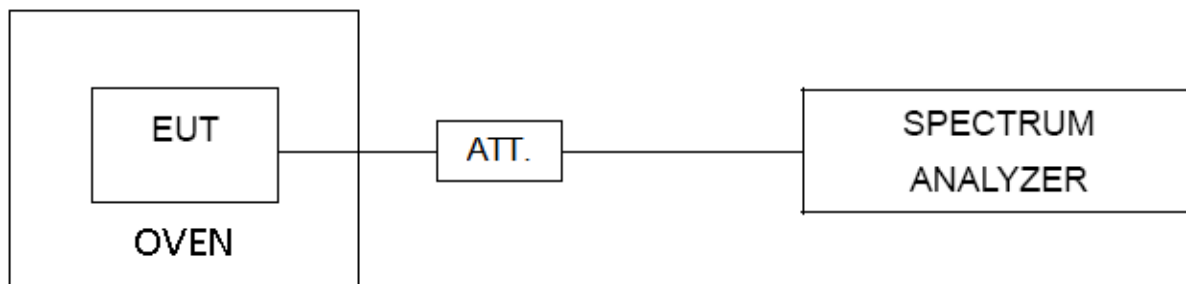
Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is 0°C~45°C.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. 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	ESR3	103027	Jun. 16, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-001	9M	Nov. 27, 2024
5	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	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Apr. 01, 2024
2	EMI Test Receiver	Keysight	N9038A	MY56400060	Dec. 22, 2024
3	Cable	RW	LMR-400(30MHz-1 GHz)(10m+2.5m+0.8M)	N/A	Jul. 04, 2024
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	1266 Chamber room	ETS	12*6*6	N/A	May 21, 2024

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jul. 04, 2024
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jul. 04, 2024
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jul. 04, 2024
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 17, 2024

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	Nov. 17, 2024
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024
4	Double Ridged Guide Antenna	ETS	3115	75789	May 31, 2024
5	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Feb. 19, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Aug. 08, 2024
7	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Aug. 08, 2024
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 06, 2024
9	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 26, 2024
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 20, 2024
12	966 Chamber room	CM	9*6*6	N/A	May 17, 2024
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
14	Filter	STI	STI15-9969	N/A	Jun. 16, 2024
15	Positioning Controller	MF	MF-7802	N/A	N/A
16	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

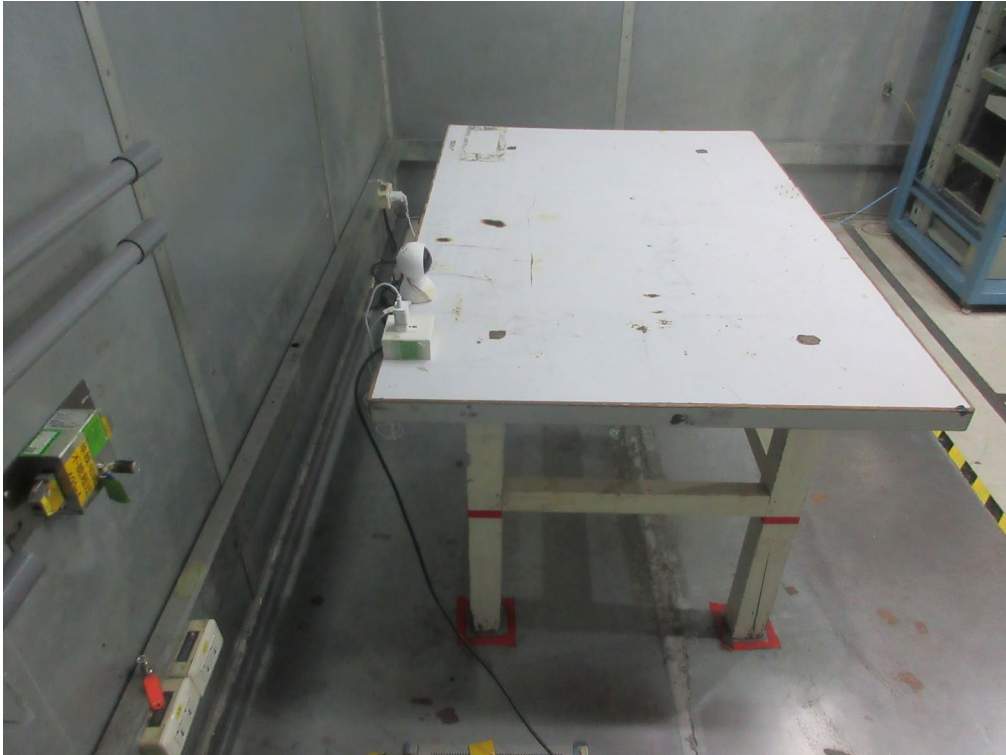
Bandwidth & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
2	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
3	DC Block	N/A	N/A	N/A	N/A
4	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
5	Measurement Software	BTL	BTL Conducted Test	N/A	N/A

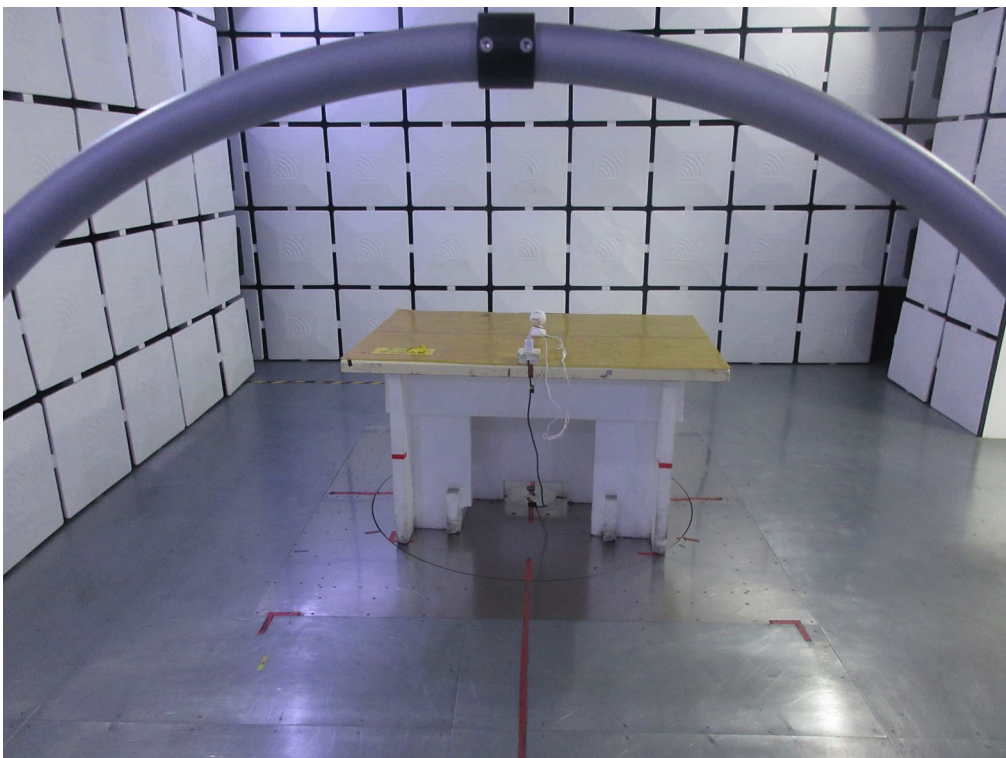
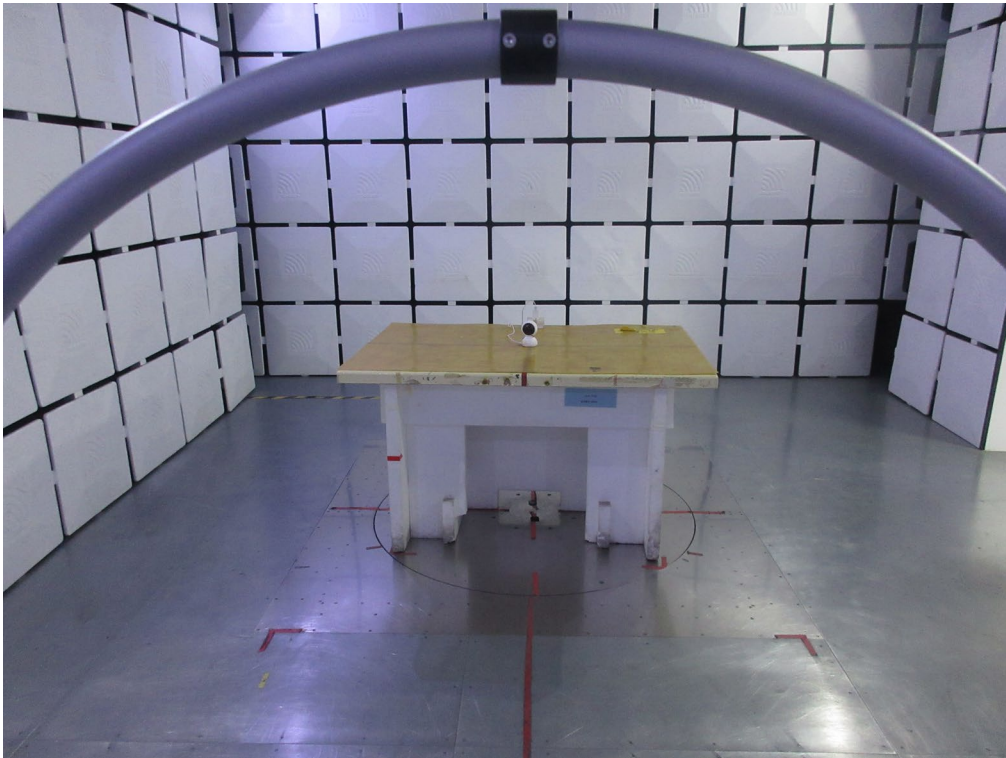
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jun. 17, 2024
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jun. 17, 2024
3	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

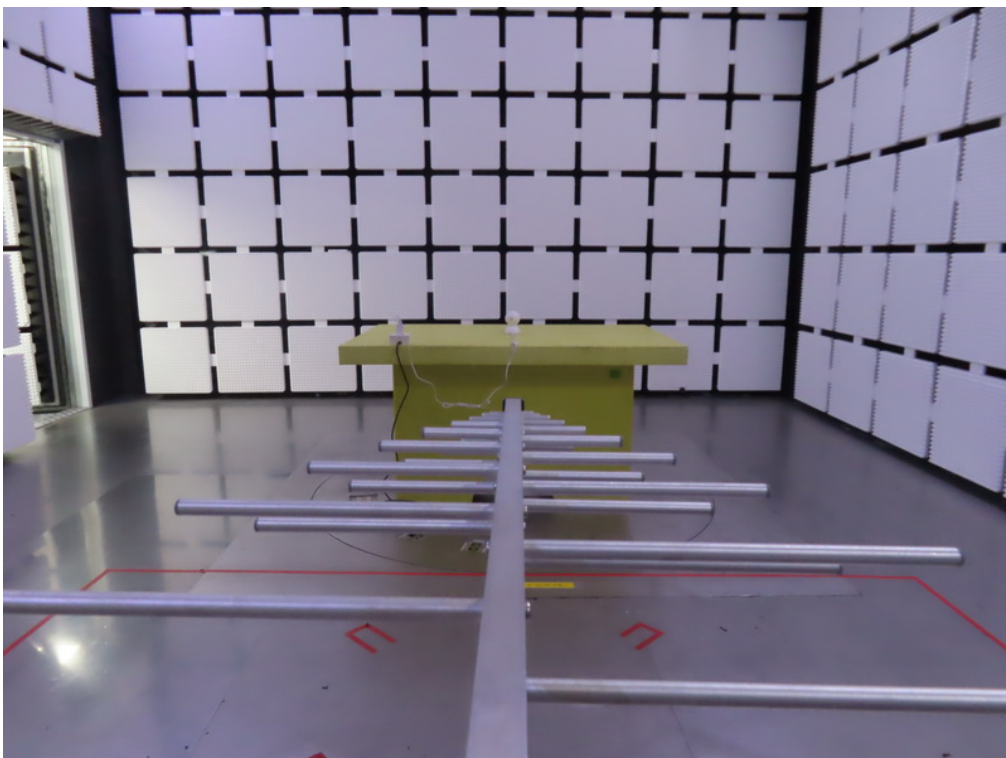
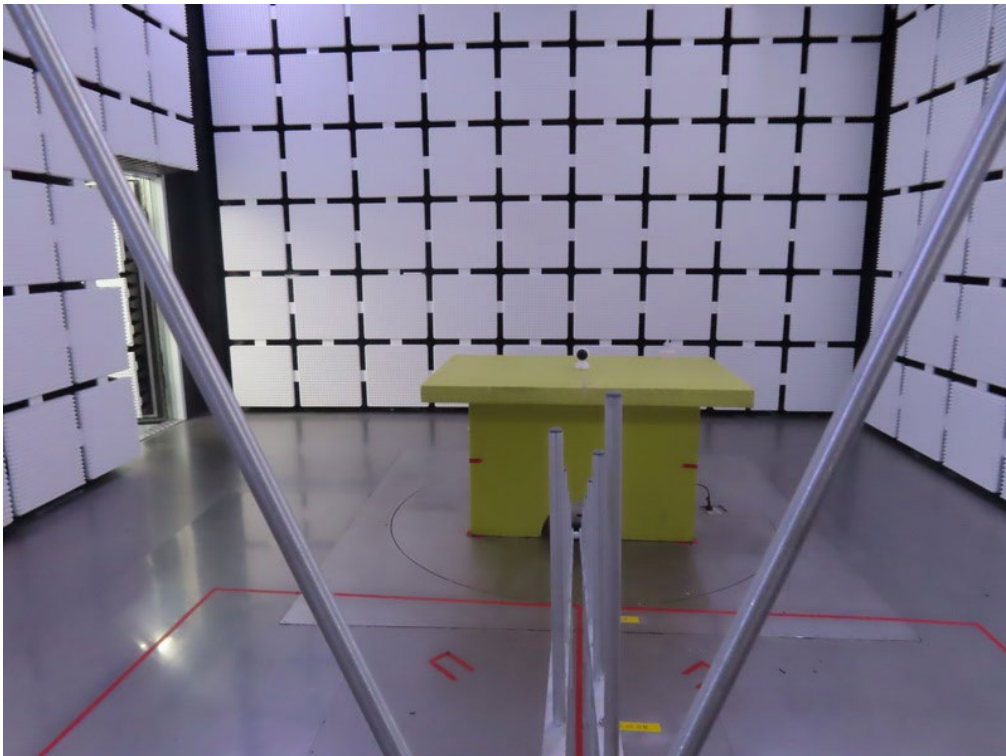
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jun. 16, 2024
2	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
3	DC Block	N/A	N/A	N/A	N/A
4	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
5	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
6	Multi-output DC Power Supply	GW Instek	GPC-3030DN	EK880675	Jul. 07, 2024
7	Temperature Chamber	ESPEC	SU-242	93018786	Jul. 07, 2024
8	Cable	Woke	S02-181212-064	N/A	N/A

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

All calibration period of equipment list is one year.

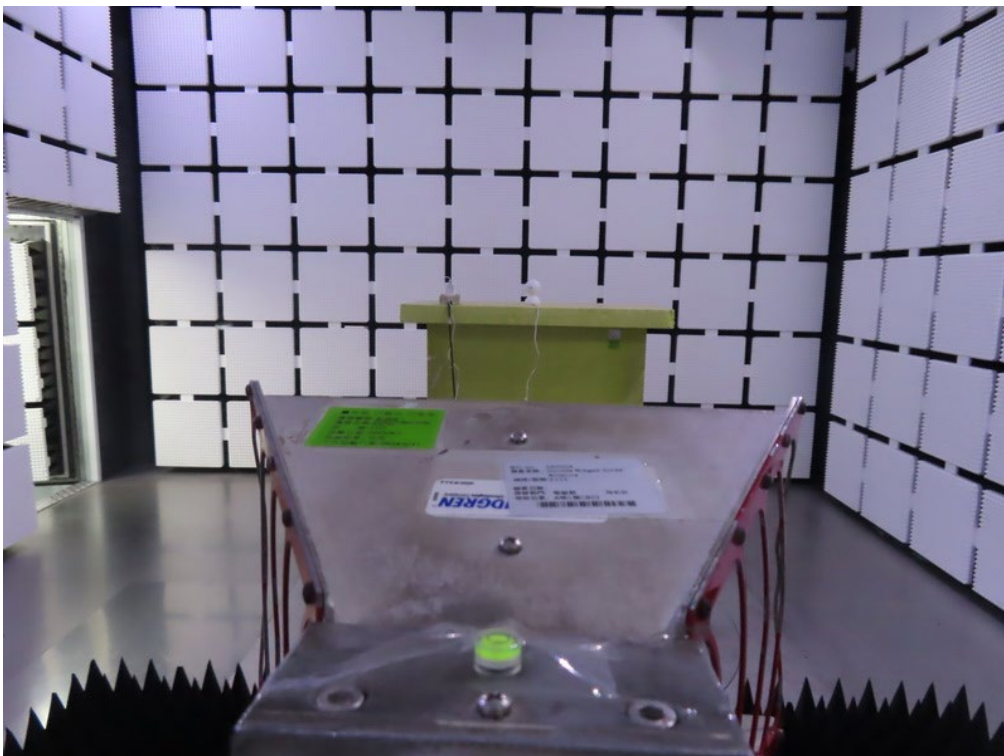
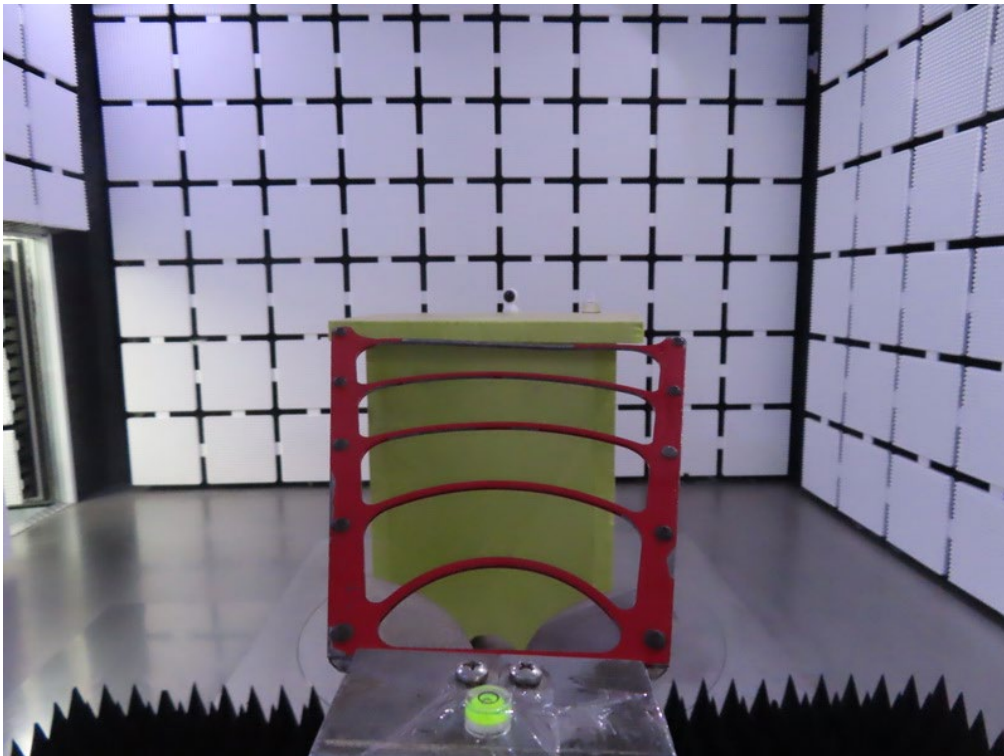
11. EUT TEST PHOTOS**AC Power Line Conducted Emissions Test Photos**

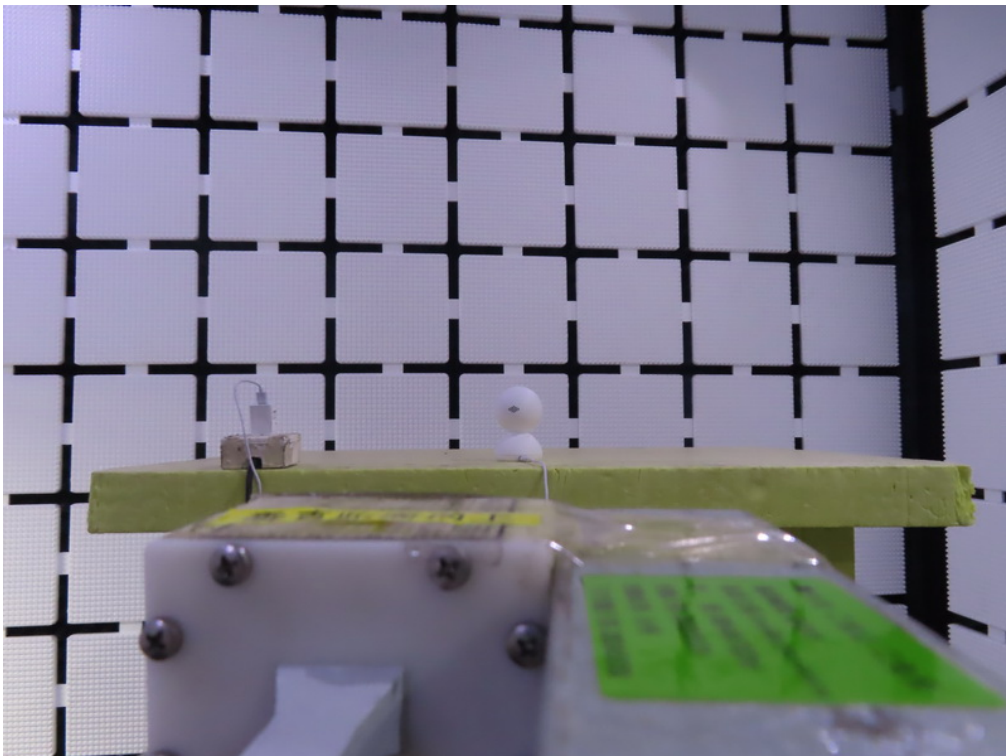
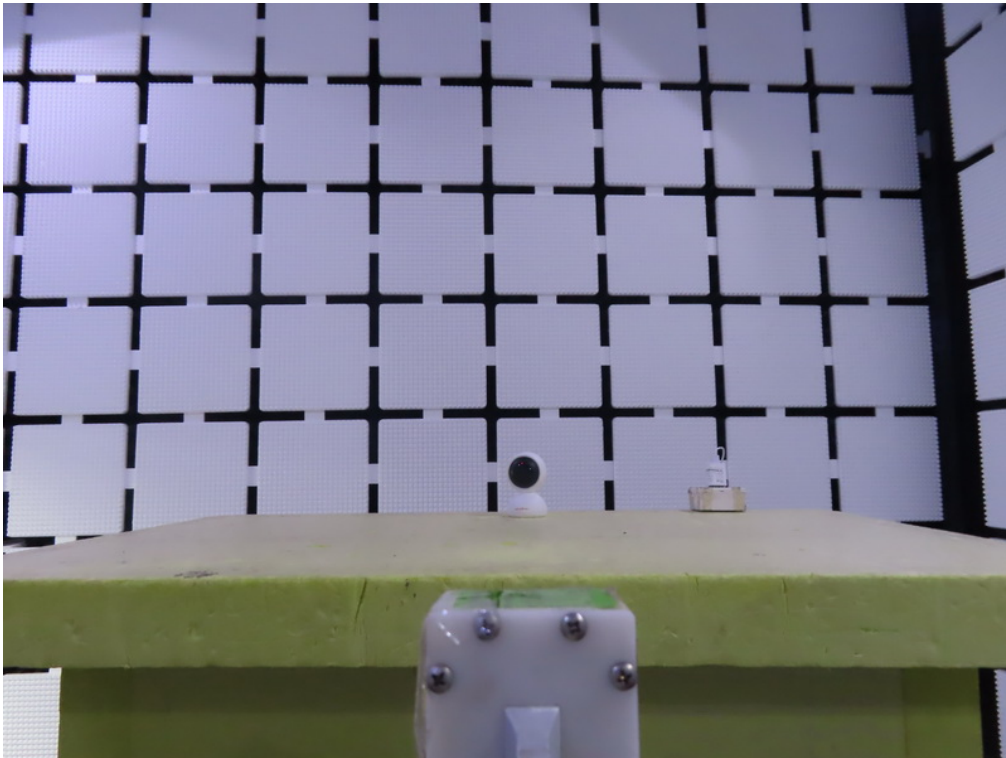
Radiated Emissions Test Photos**9 kHz to 30 MHz**

Radiated Emissions Test Photos**30 MHz to 1 GHz**

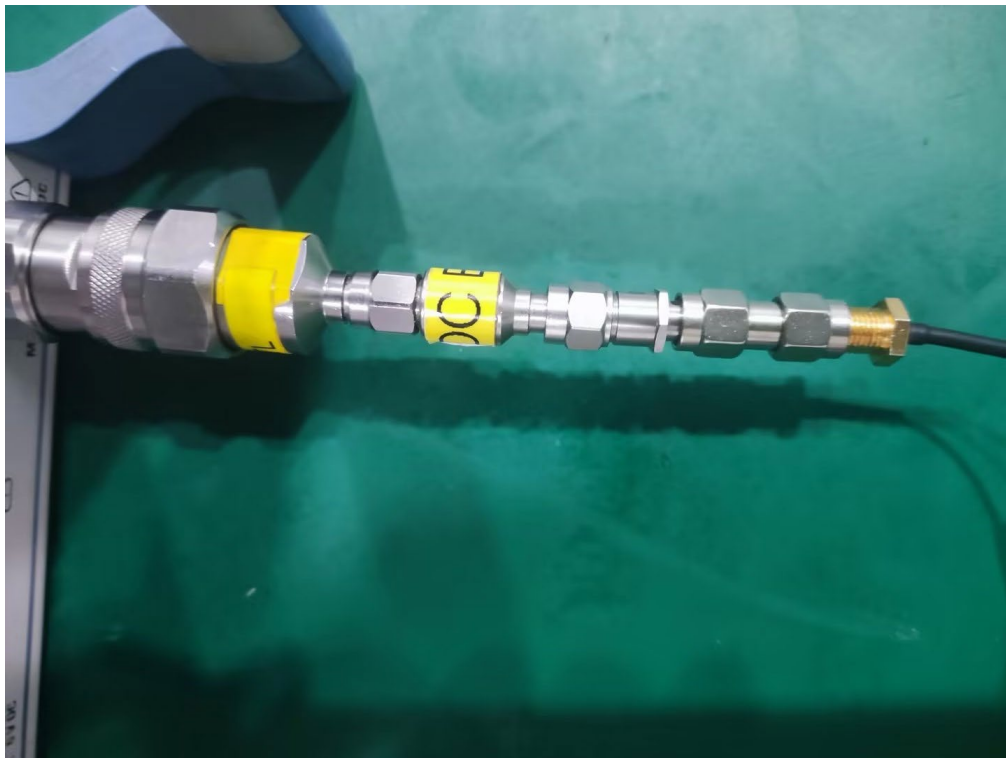
Radiated Emissions Test Photos

Band edge & Harmonic 1 GHz - 18 GHz



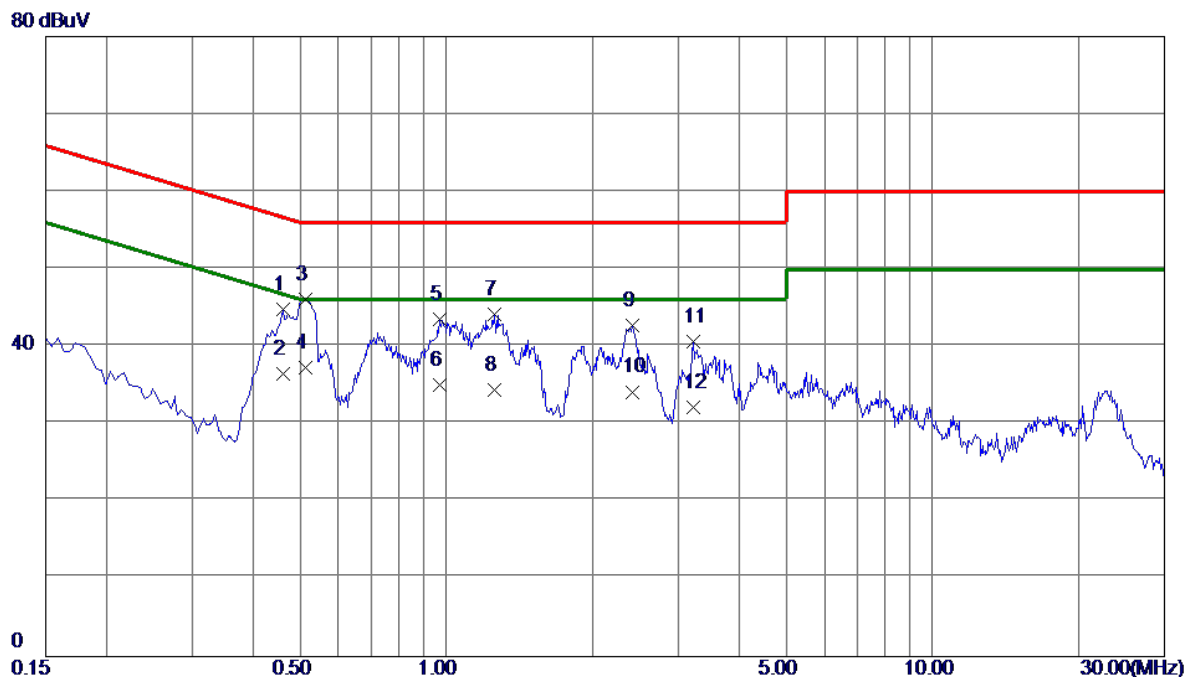
Radiated Emissions Test Photos**Harmonic Above 18 GHz**

Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX A Mode Channel 140 (UNII-2C)	Phase	Line
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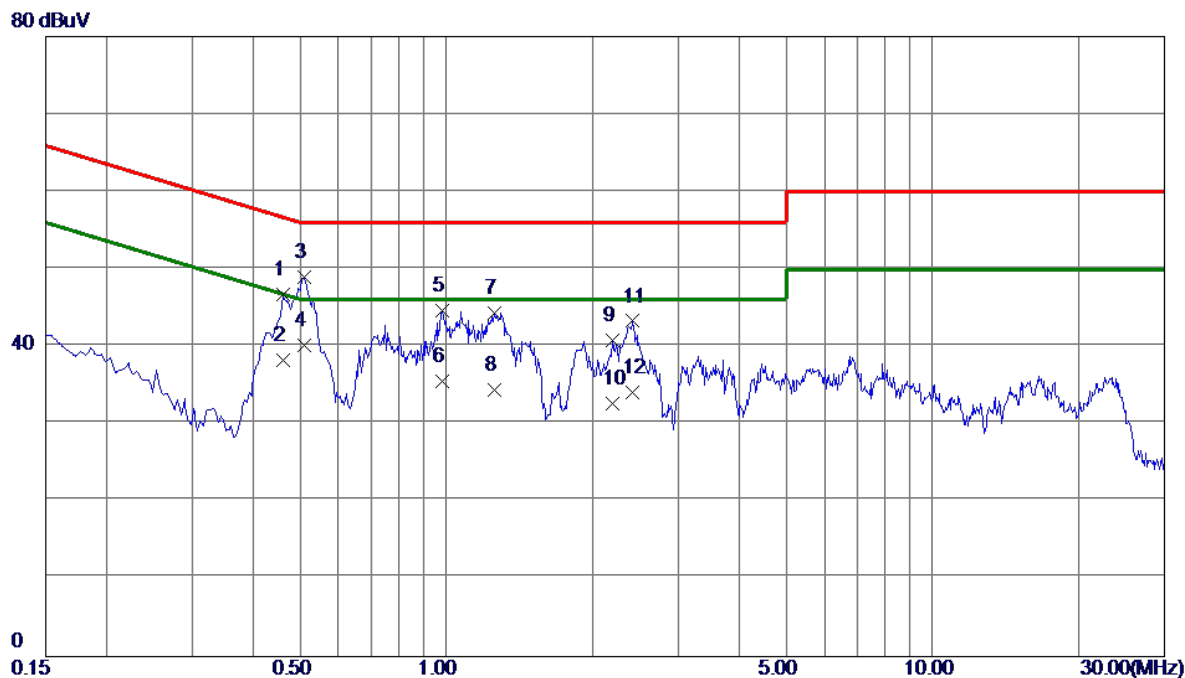


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.4605	34.30	10.54	44.84	56.68	-11.84	QP	
2	0.4605	25.90	10.54	36.44	46.68	-10.24	AVG	
3	0.5144	35.49	10.66	46.15	56.00	-9.85	QP	
4 *	0.5144	26.60	10.66	37.26	46.00	-8.74	AVG	
5	0.9690	32.22	11.24	43.46	56.00	-12.54	QP	
6	0.9690	23.80	11.24	35.04	46.00	-10.96	AVG	
7	1.2570	32.78	11.31	44.09	56.00	-11.91	QP	
8	1.2570	23.10	11.31	34.41	46.00	-11.59	AVG	
9	2.4180	32.12	10.66	42.78	56.00	-13.22	QP	
10	2.4180	23.50	10.66	34.16	46.00	-11.84	AVG	
11	3.2190	30.18	10.44	40.62	56.00	-15.38	QP	
12	3.2190	21.70	10.44	32.14	46.00	-13.86	AVG	

REMARKS:

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

Test Mode	TX A Mode Channel 140 (UNII-2C)	Phase	Neutral
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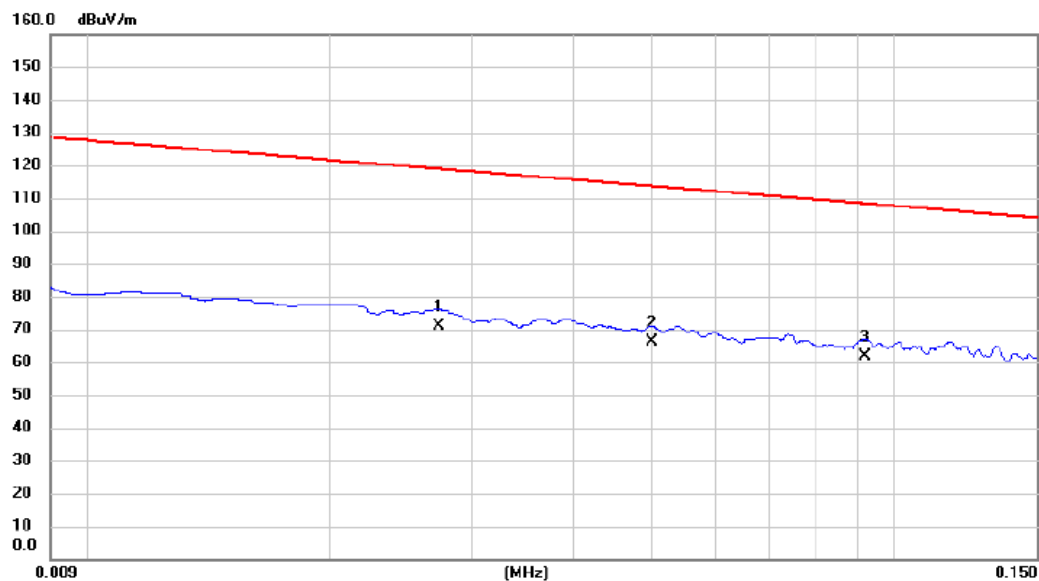
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.4605	36.22	10.50	46.72	56.68	-9.96	QP	
2	0.4605	27.70	10.50	38.20	46.68	-8.48	AVG	
3	0.5100	38.41	10.61	49.02	56.00	-6.98	QP	
4 *	0.5100	29.60	10.61	40.21	46.00	-5.79	AVG	
5	0.9824	33.48	11.20	44.68	56.00	-11.32	QP	
6	0.9824	24.30	11.20	35.50	46.00	-10.50	AVG	
7	1.2570	33.00	11.26	44.26	56.00	-11.74	QP	
8	1.2570	23.11	11.26	34.37	46.00	-11.63	AVG	
9	2.1974	30.02	10.77	40.79	56.00	-15.21	QP	
10	2.1974	21.80	10.77	32.57	46.00	-13.43	AVG	
11	2.4134	32.67	10.61	43.28	56.00	-12.72	QP	
12	2.4134	23.51	10.61	34.12	46.00	-11.88	AVG	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX A Mode Channel 140 (UNII-2C)	Polarization	Ant 0°
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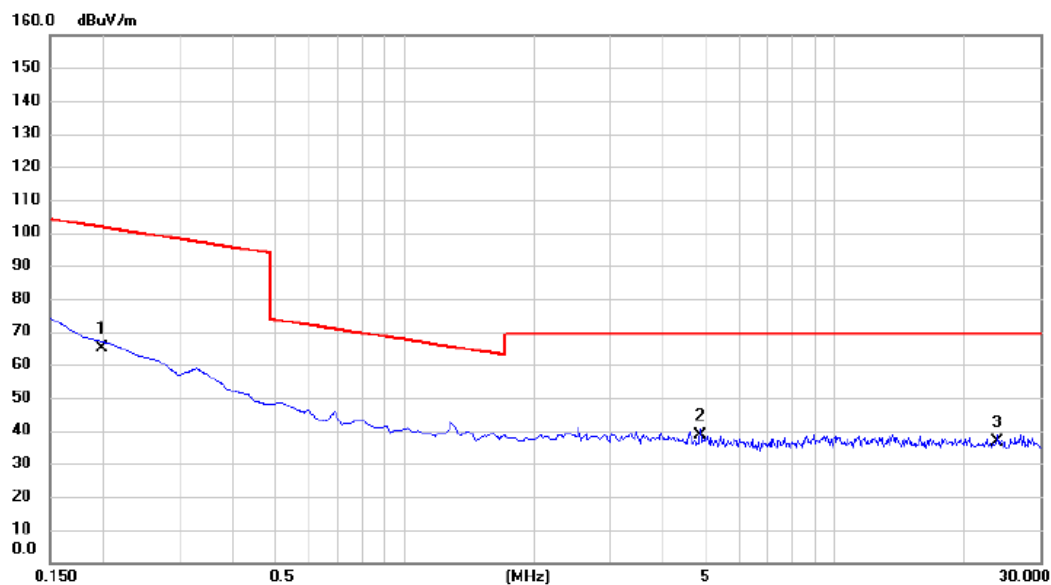


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.027	50.13	21.02	71.15	118.88	-47.73	AVG	
2	0.050	44.85	21.20	66.05	113.63	-47.58	AVG	
3 *	0.092	40.60	21.33	61.93	108.32	-46.39	QP	

REMARKS:

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

Test Mode	TX A Mode Channel 140 (UNII-2C)	Polarization	Ant 0°
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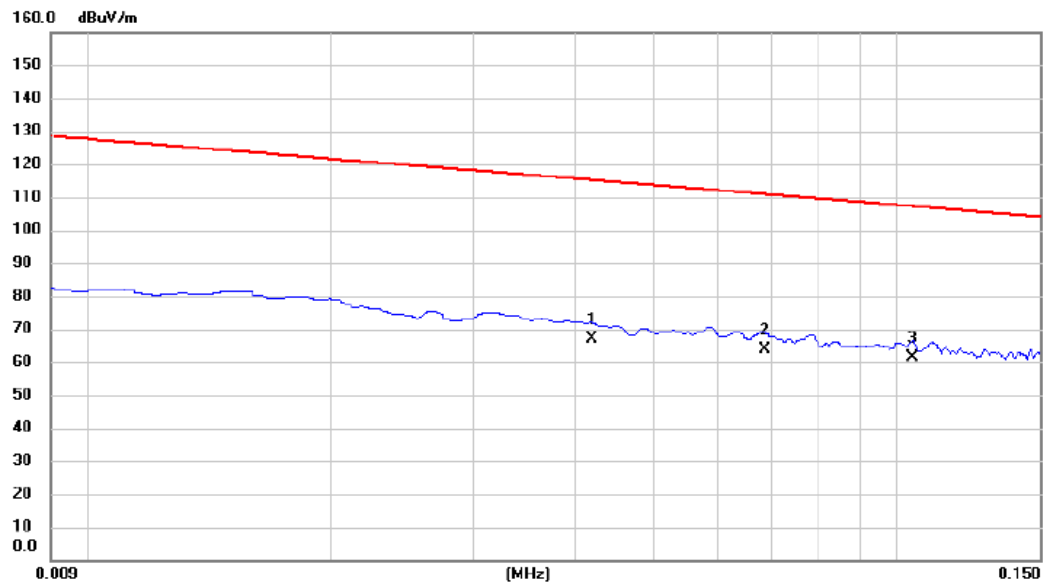


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.199	43.82	21.19	65.01	101.65	-36.64	AVG	
2 *	4.851	17.54	21.15	38.69	69.54	-30.85	QP	
3	23.896	14.95	21.64	36.59	69.54	-32.95	QP	

REMARKS:

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

Test Mode	TX A Mode Channel 140 (UNII-2C)	Polarization	Ant 90°
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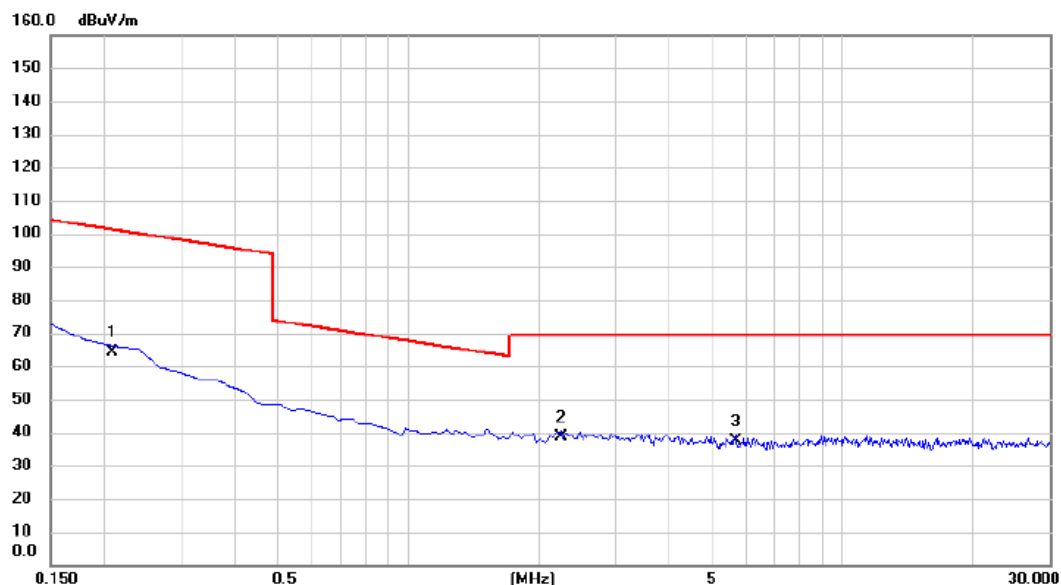


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.042	45.86	21.16	67.02	115.14	-48.12	AVG	
2		0.069	42.74	21.26	64.00	110.88	-46.88	AVG	
3	*	0.104	40.15	21.32	61.47	107.23	-45.76	QP	

REMARKS:

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

Test Mode	TX A Mode Channel 140 (UNII-2C)	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		0.208	43.03	21.18	64.21	101.23	-37.02	AVG	
2	*	2.254	17.41	21.10	38.51	69.54	-31.03	QP	
3		5.672	16.32	21.16	37.48	69.54	-32.06	QP	

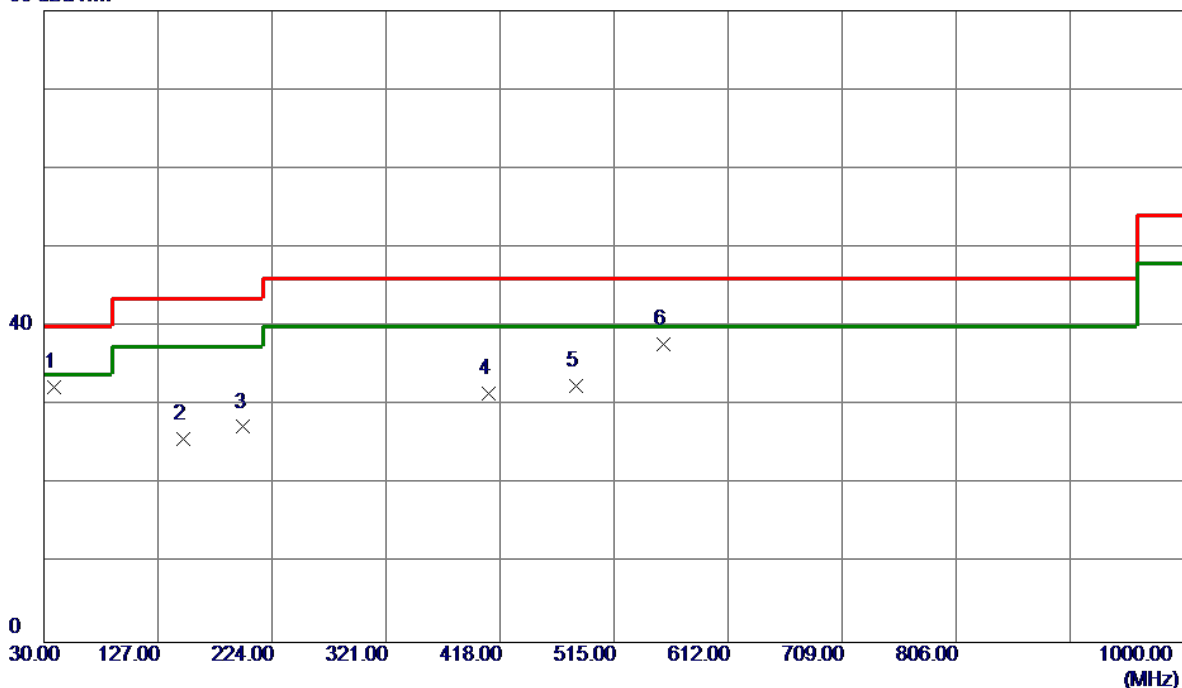
REMARKS:

- (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 A Mode Channel 140 (UNII-2C)	Polarization	Vertical
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80 dBuV/m



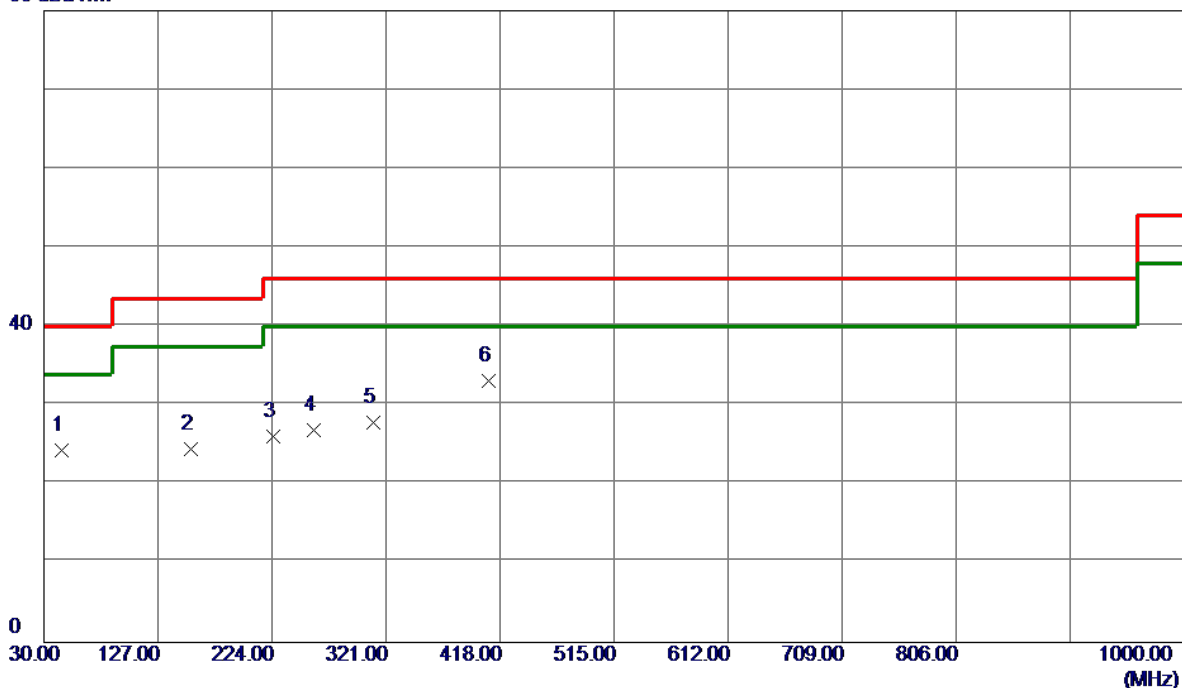
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	38.2450	44.23	-11.98	32.25	40.00	-7.75	Peak	
2	148.8250	37.04	-11.29	25.75	43.50	-17.75	Peak	
3	199.7500	41.77	-14.49	27.28	43.50	-16.22	Peak	
4	408.3000	39.45	-7.93	31.52	46.00	-14.48	Peak	
5	482.5050	38.79	-6.38	32.41	46.00	-13.59	Peak	
6	556.7100	42.72	-4.94	37.78	46.00	-8.22	Peak	

REMARKS:

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

Test Mode	TX A Mode Channel 140 (UNII-2C)	Polarization	Horizontal
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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	45.0350	35.67	-11.39	24.28	40.00	-15.72	Peak	
2	154.6450	35.56	-11.08	24.48	43.50	-19.02	Peak	
3	224.9700	40.15	-14.06	26.09	46.00	-19.91	Peak	
4	259.8900	39.01	-12.15	26.86	46.00	-19.14	Peak	
5	309.8450	38.26	-10.42	27.84	46.00	-18.16	Peak	
6 *	408.3000	40.98	-7.93	33.05	46.00	-12.95	Peak	

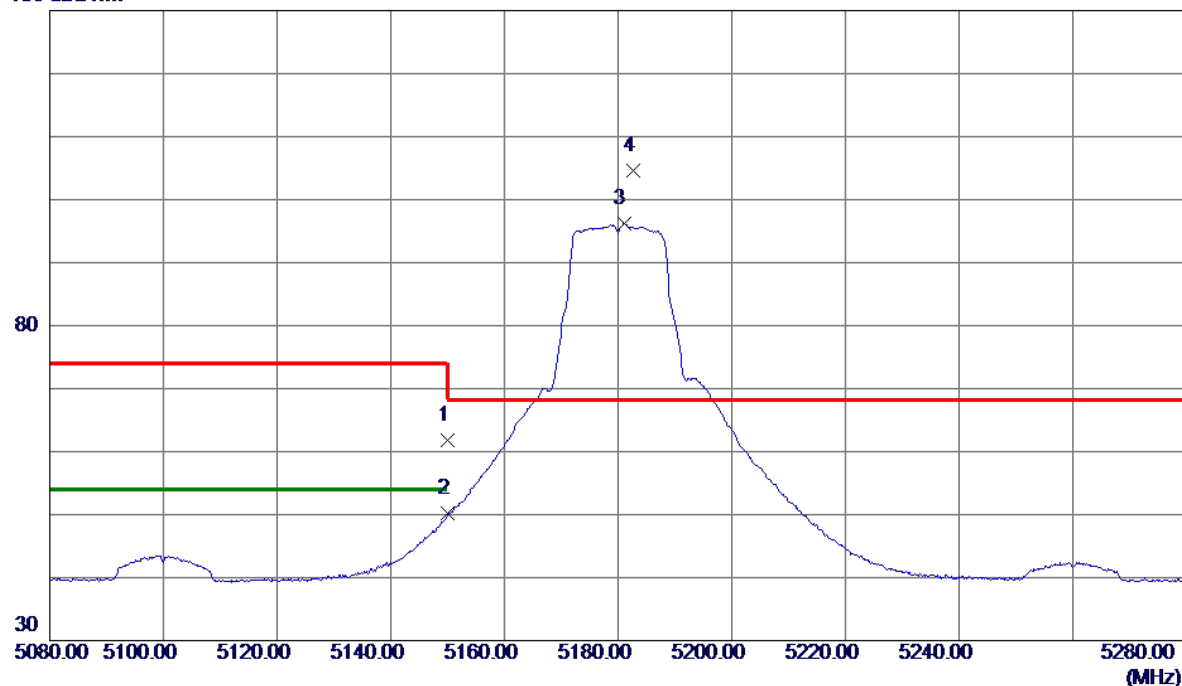
REMARKS:

- (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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130 dBuV/m



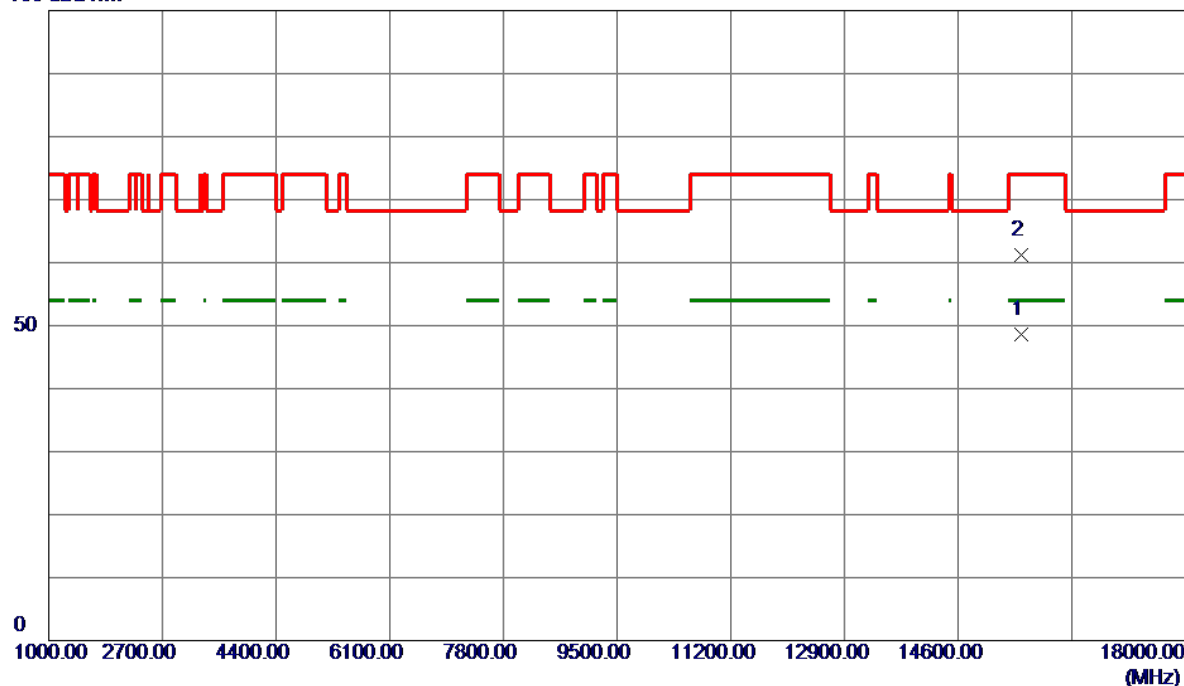
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	48.69	13.12	61.81	74.00	-12.19	Peak	
2	5150.0000	37.03	13.12	50.15	54.00	-3.85	AVG	
3	5181.0000	83.02	13.18	96.20	999.00	-902.80	AVG	No Limit
4 *	5182.7000	91.47	13.18	104.65	68.20	36.45	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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100 dBuV/m



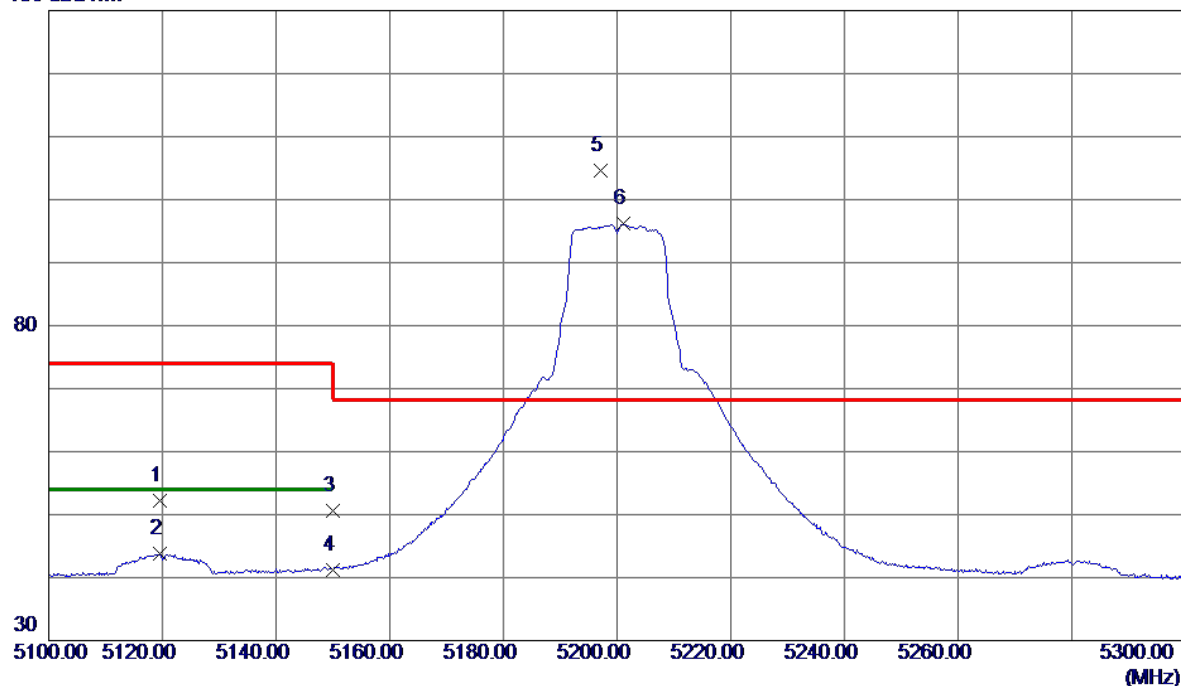
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15538.5500	40.83	7.76	48.59	54.00	-5.41	AVG	
2	15539.1000	53.43	7.76	61.19	74.00	-12.81	Peak	

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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130 dBuV/m



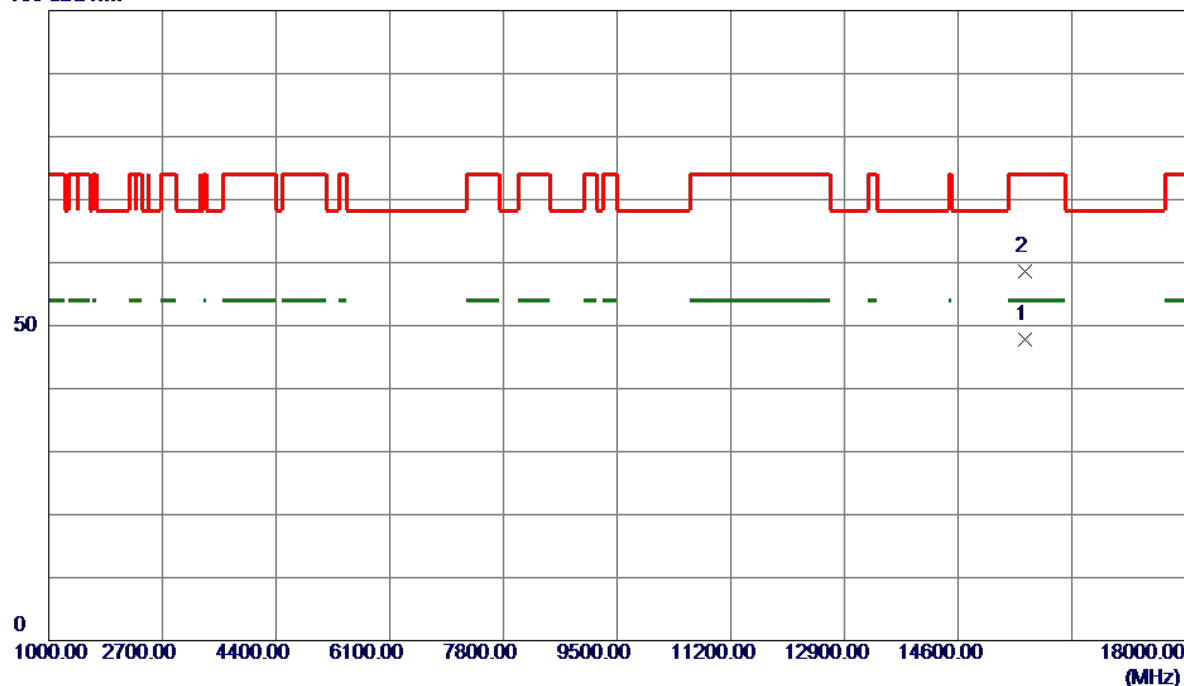
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5119.5000	39.16	13.07	52.23	74.00	-21.77	Peak	
2	5119.5000	30.72	13.07	43.79	54.00	-10.21	AVG	
3	5150.0000	37.50	13.12	50.62	74.00	-23.38	Peak	
4	5150.0000	28.08	13.12	41.20	54.00	-12.80	AVG	
5 *	5197.1000	91.41	13.21	104.62	68.20	36.42	Peak	No Limit
6	5201.1000	82.90	13.21	96.11	999.00	-902.89	AVG	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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100 dBuV/m



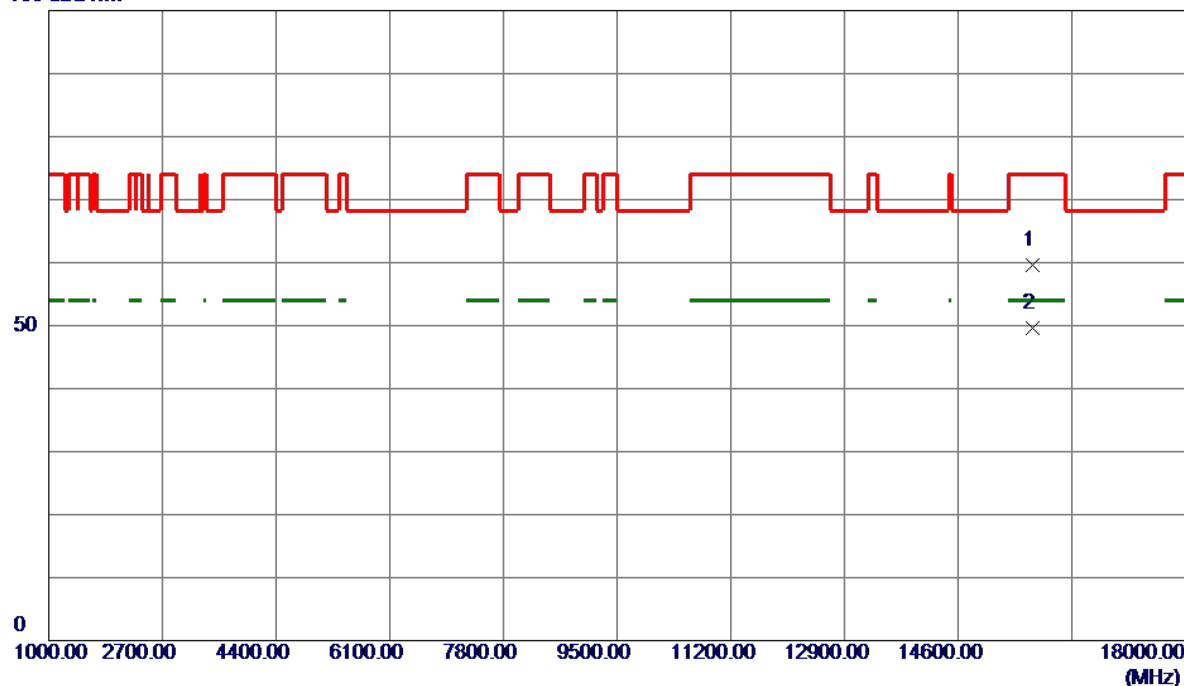
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15599.9000	40.02	7.80	47.82	54.00	-6.18	AVG	
2	15602.2500	50.86	7.81	58.67	74.00	-15.33	Peak	

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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100 dBuV/m



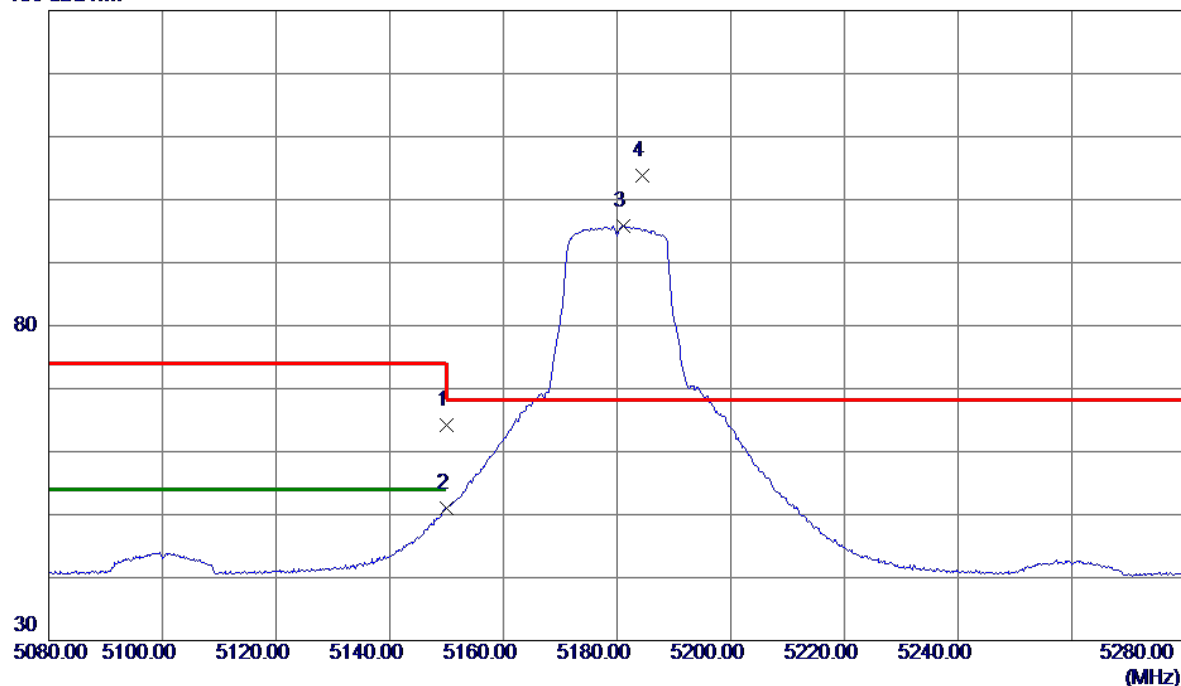
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15714.2500	51.81	7.88	59.69	74.00	-14.31	Peak	
2 *	15722.7000	41.63	7.89	49.52	54.00	-4.48	AVG	

REMARKS:

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

Test Mode	UNII-1_TX N(HT20) Mode 5180 MHz	Polarization	Vertical
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130 dBuV/m



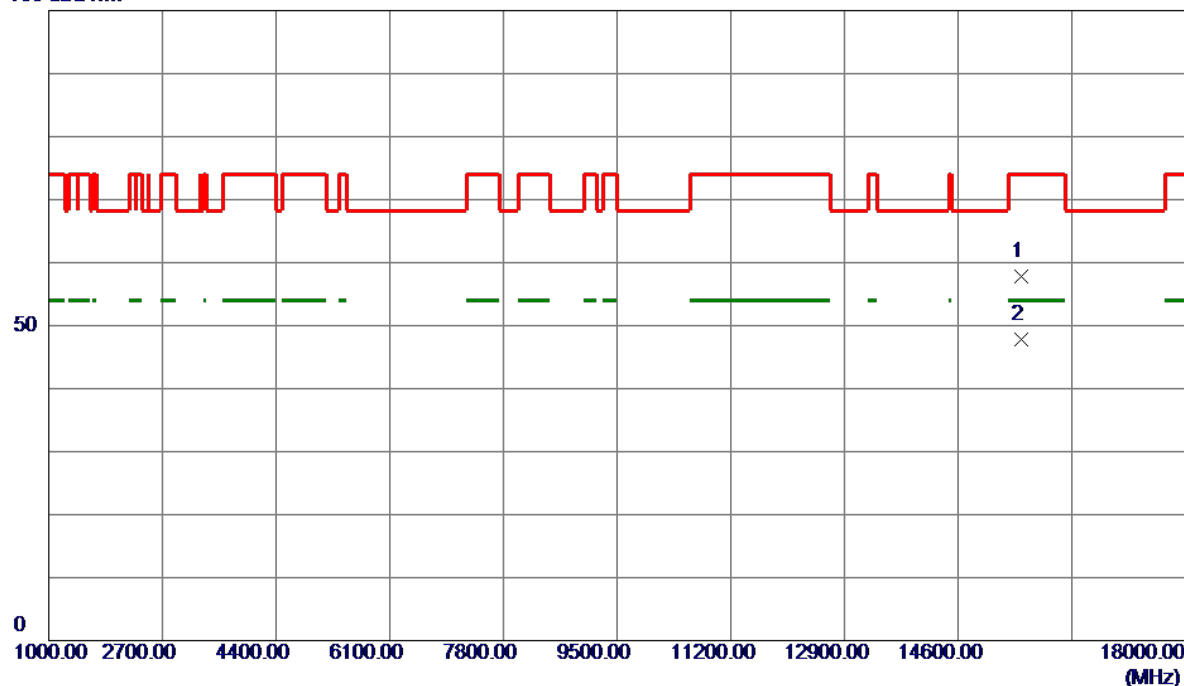
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	51.17	13.12	64.29	74.00	-9.71	Peak	
2	5150.0000	37.94	13.12	51.06	54.00	-2.94	AVG	
3	5181.1000	82.63	13.18	95.81	999.00	-903.19	AVG	No Limit
4 *	5184.5000	90.62	13.18	103.80	68.20	35.60	Peak	No Limit

REMARKS:

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

Test Mode	UNII-1_TX N(HT20) Mode 5180 MHz	Polarization	Vertical
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100 dBuV/m



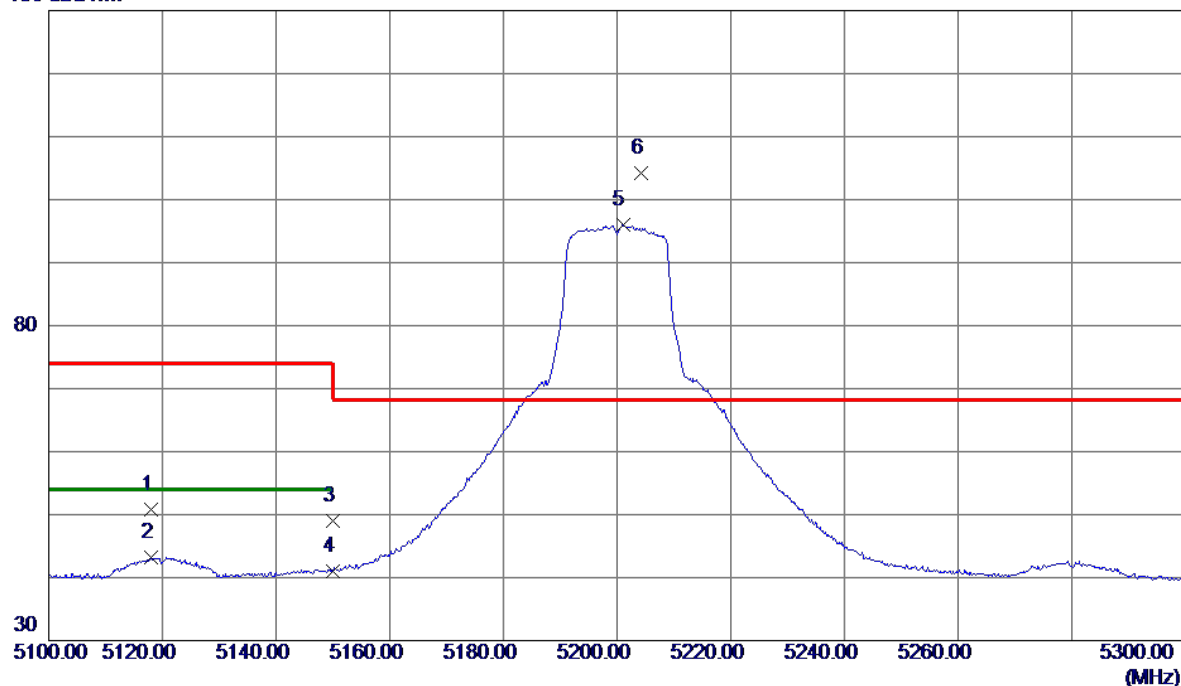
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15537.0000	50.06	7.76	57.82	74.00	-16.18	Peak	
2 *	15542.3500	40.05	7.76	47.81	54.00	-6.19	AVG	

REMARKS:

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

Test Mode	UNII-1_TX N(HT20) Mode 5200 MHz	Polarization	Vertical
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130 dBuV/m



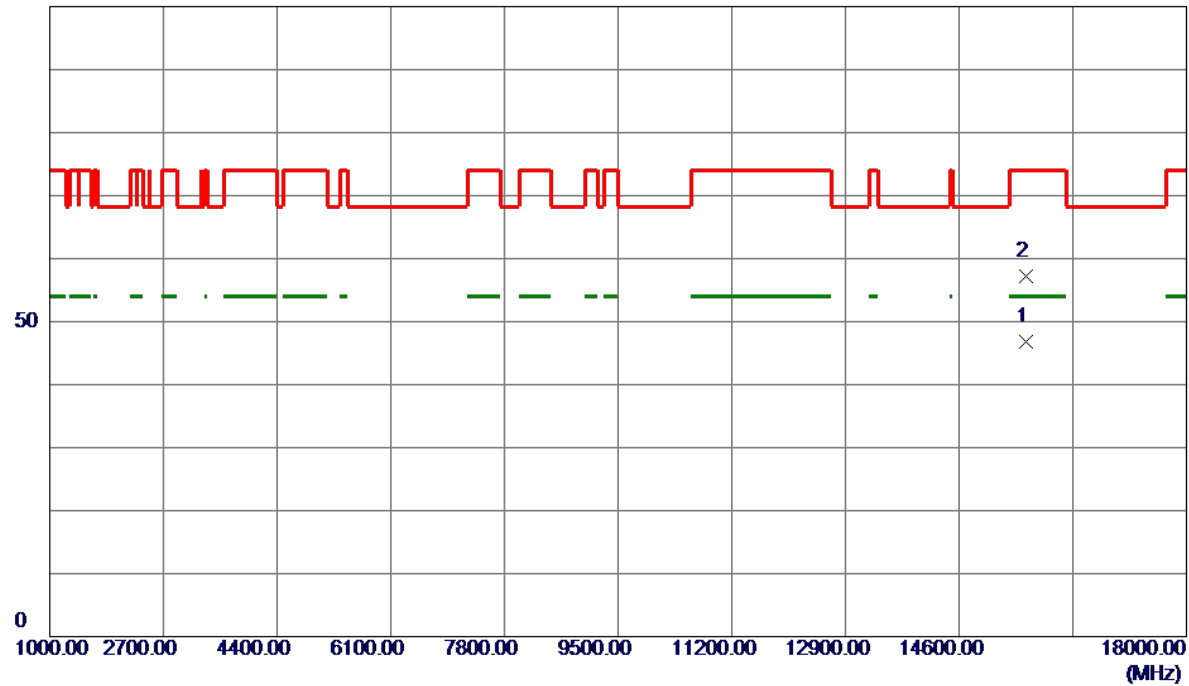
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5117.9000	37.74	13.07	50.81	74.00	-23.19	Peak	
2	5117.9000	30.06	13.07	43.13	54.00	-10.87	AVG	
3	5150.0000	35.86	13.12	48.98	74.00	-25.02	Peak	
4	5150.0000	27.94	13.12	41.06	54.00	-12.94	AVG	
5	5201.0000	82.82	13.21	96.03	999.00	-902.97	AVG	No Limit
6 *	5204.3000	91.05	13.22	104.27	68.20	36.07	Peak	No Limit

REMARKS:

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

Test Mode	UNII-1_TX N(HT20) Mode 5200 MHz	Polarization	Vertical
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100 dBuV/m



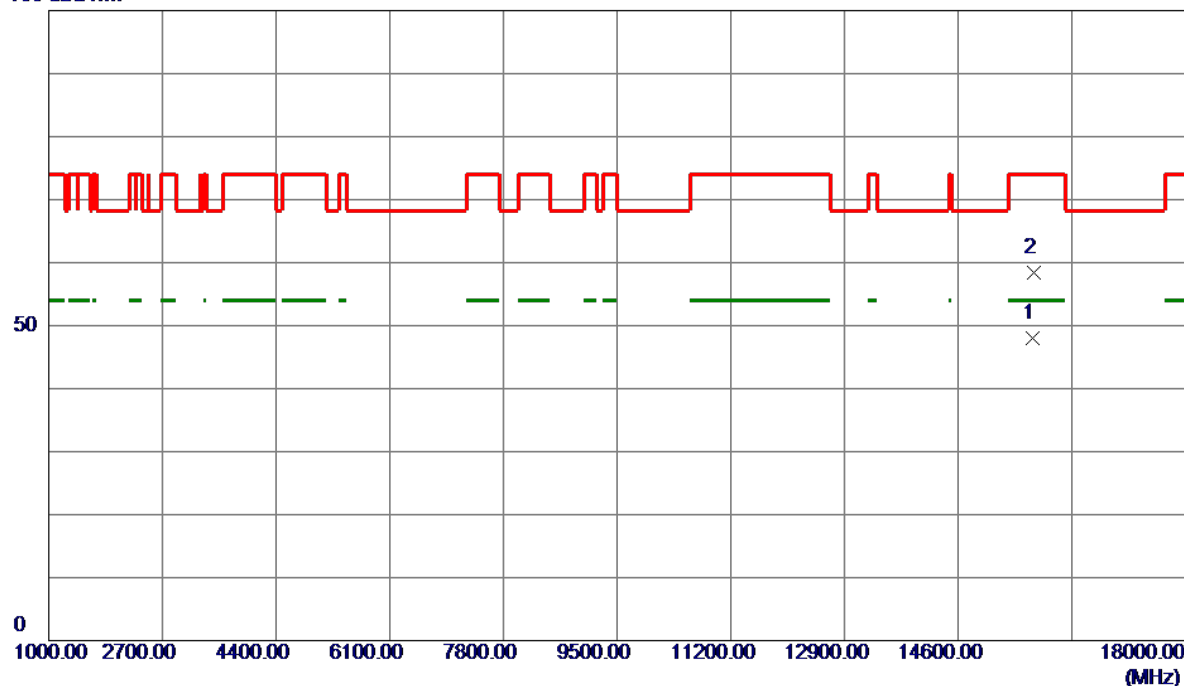
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15601.1000	38.94	7.80	46.74	54.00	-7.26	AVG	
2	15603.2000	49.40	7.81	57.21	74.00	-16.79	Peak	

REMARKS:

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

Test Mode	UNII-1_TX N(HT20) Mode 5240 MHz	Polarization	Vertical
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100 dBuV/m



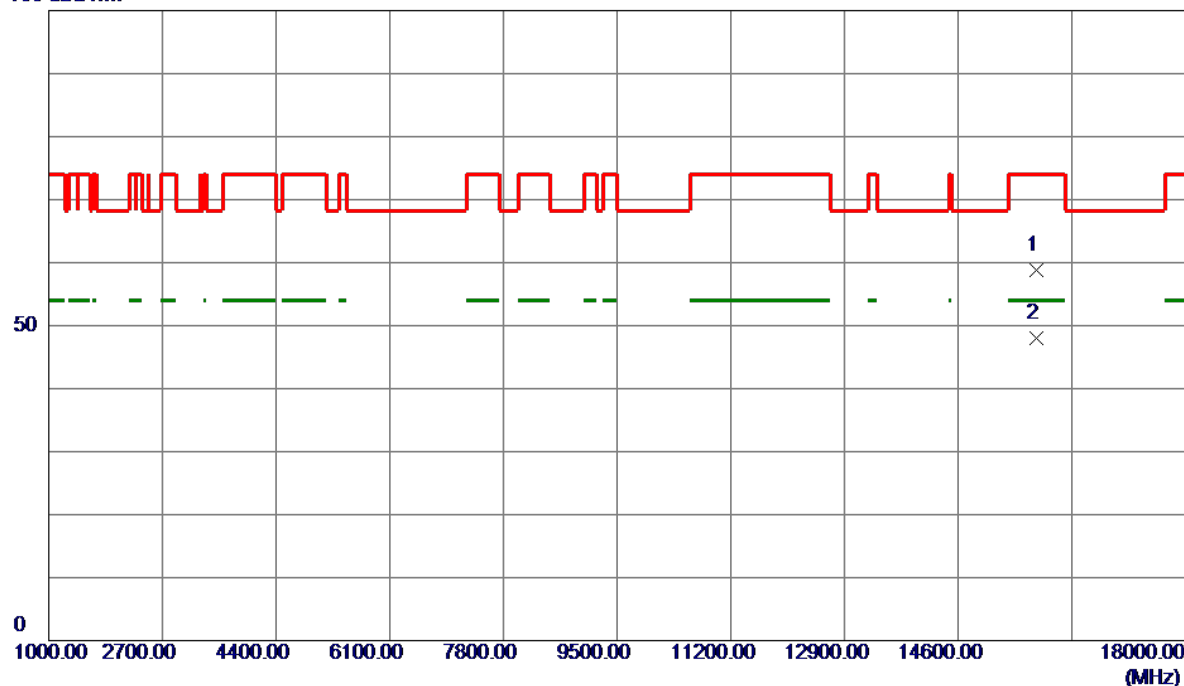
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15722.4000	40.18	7.89	48.07	54.00	-5.93	AVG	
2	15724.0000	50.60	7.89	58.49	74.00	-15.51	Peak	

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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100 dBuV/m



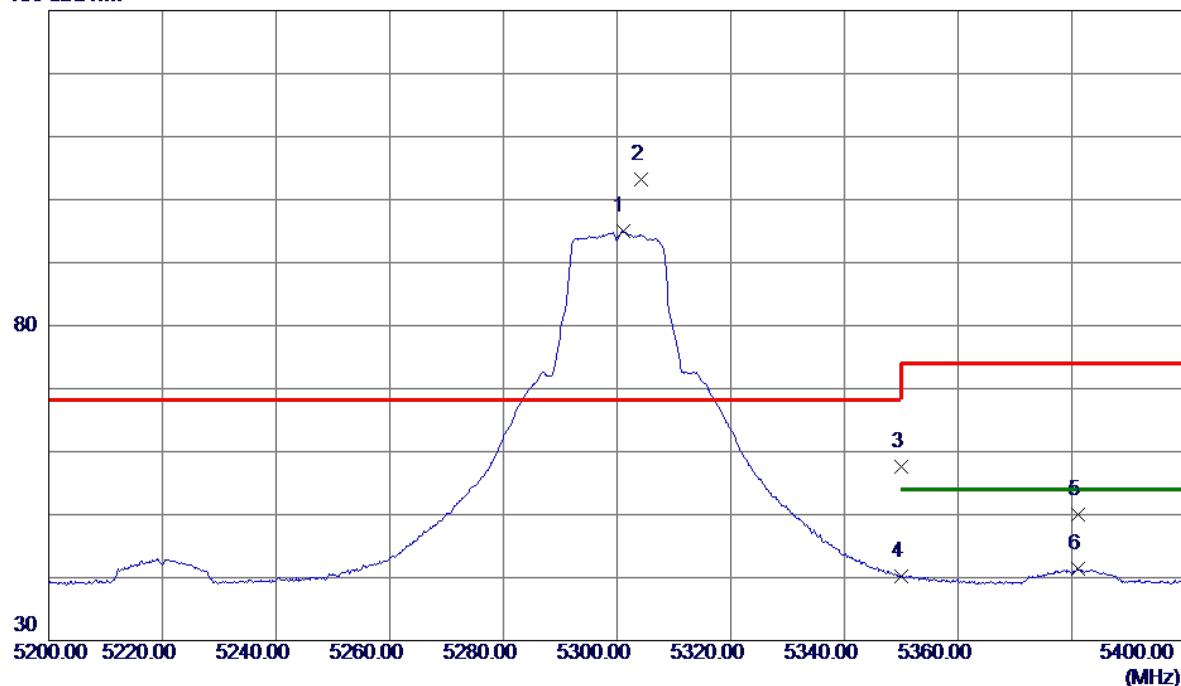
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15774.2000	50.91	7.92	58.83	74.00	-15.17	Peak	
2 *	15779.8000	40.00	7.93	47.93	54.00	-6.07	AVG	

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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130 dBuV/m



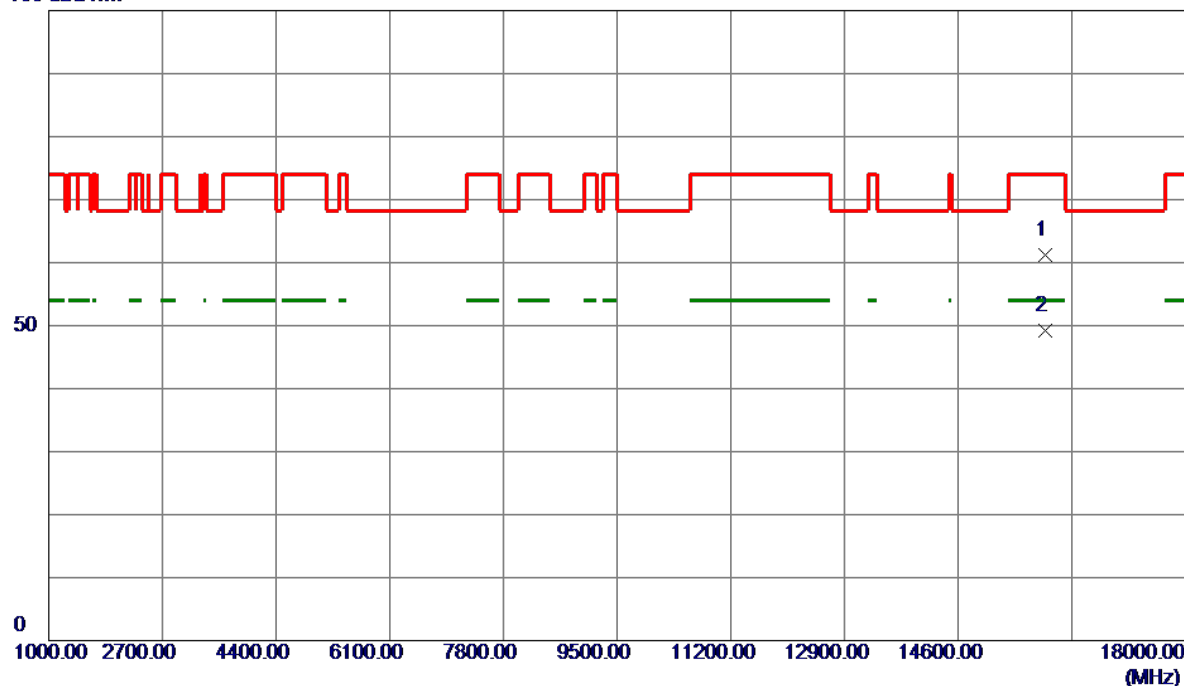
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5301.0000	81.56	13.38	94.94	999.00	-904.06	AVG	No Limit
2 *	5304.3000	89.76	13.39	103.15	68.20	34.95	Peak	No Limit
3	5350.0000	44.23	13.46	57.69	74.00	-16.31	Peak	
4	5350.0000	26.74	13.46	40.20	54.00	-13.80	AVG	
5	5381.1000	36.40	13.52	49.92	74.00	-24.08	Peak	
6	5381.1000	27.88	13.52	41.40	54.00	-12.60	AVG	

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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100 dBuV/m

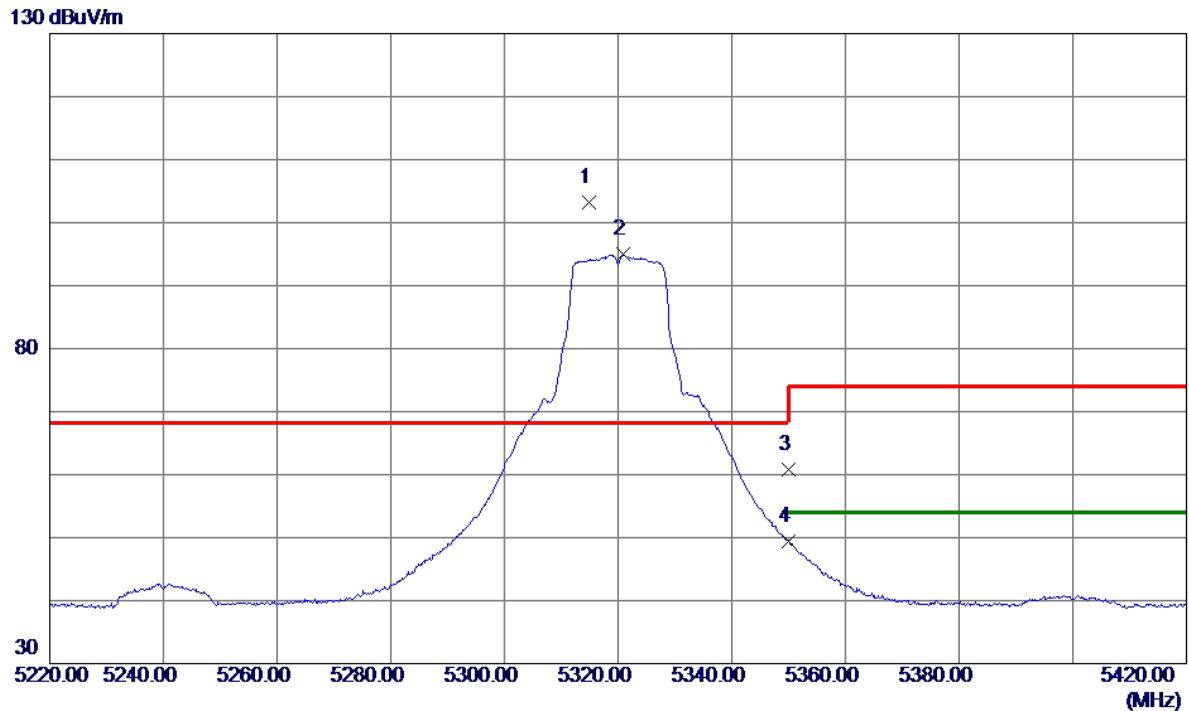


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15894.1500	53.12	8.01	61.13	74.00	-12.87	Peak	
2 *	15898.5500	41.28	8.01	49.29	54.00	-4.71	AVG	

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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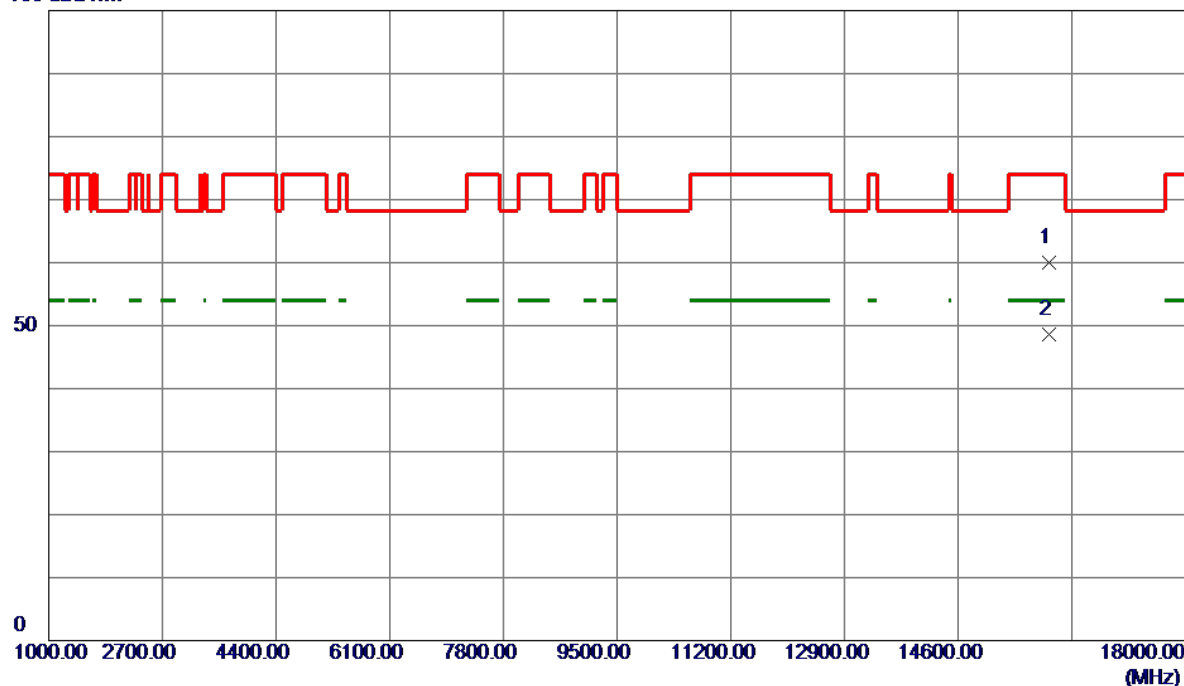
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5314.9000	89.84	13.41	103.25	68.20	35.05	Peak	No Limit
2	5320.9000	81.61	13.42	95.03	999.00	-903.97	AVG	No Limit
3	5350.0000	47.33	13.46	60.79	74.00	-13.21	Peak	
4	5350.0000	35.95	13.46	49.41	54.00	-4.59	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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100 dBuV/m



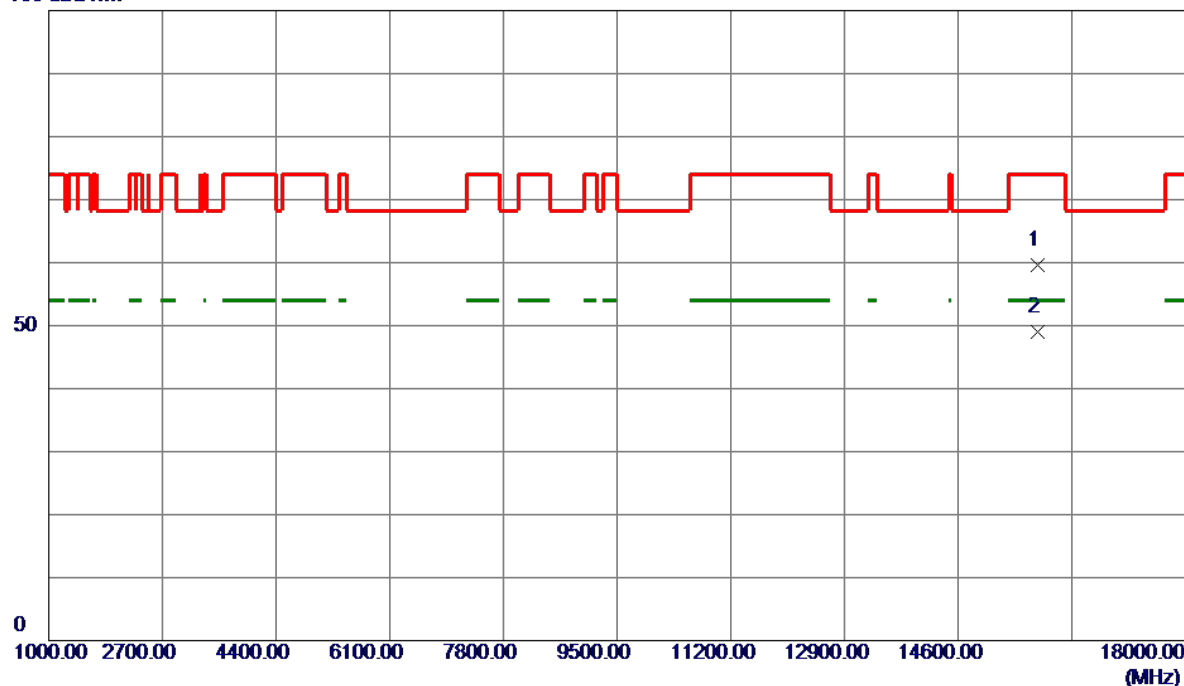
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15960.9000	51.87	8.05	59.92	74.00	-14.08	Peak	
2 *	15961.7000	40.50	8.05	48.55	54.00	-5.45	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX N(HT20) Mode 5260 MHz	Polarization	Vertical
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100 dBuV/m



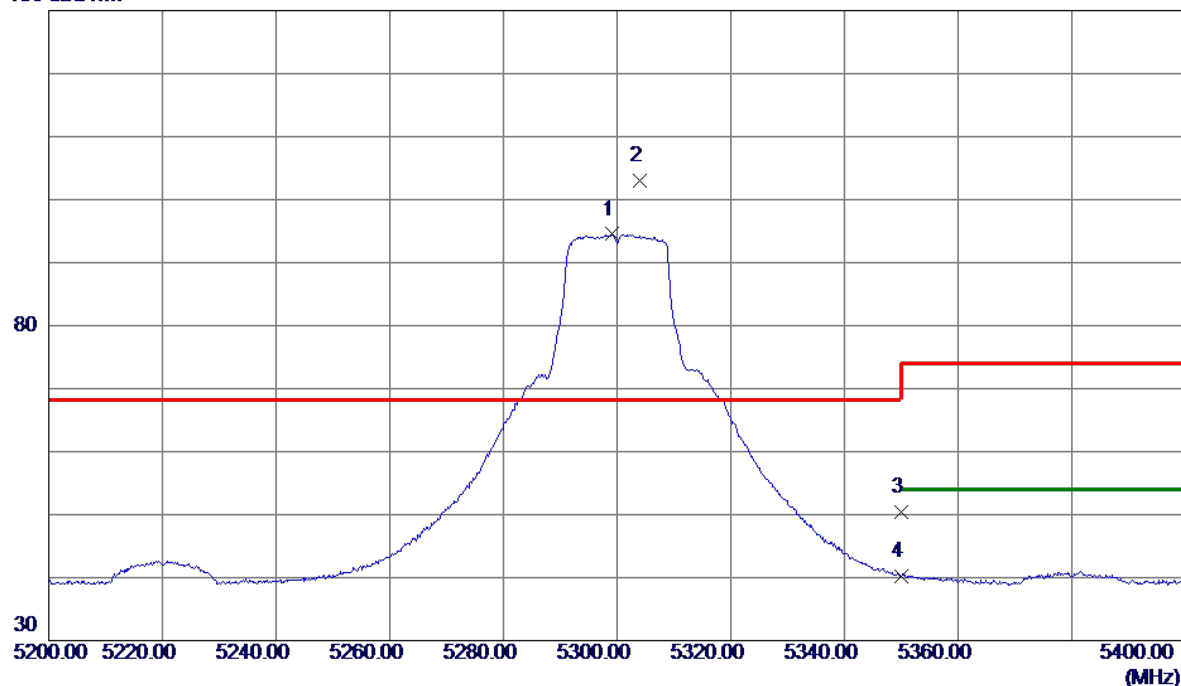
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15780.9000	51.65	7.93	59.58	74.00	-14.42	Peak	
2 *	15782.3000	41.10	7.93	49.03	54.00	-4.97	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX N(HT20) Mode 5300 MHz	Polarization	Vertical
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130 dBuV/m



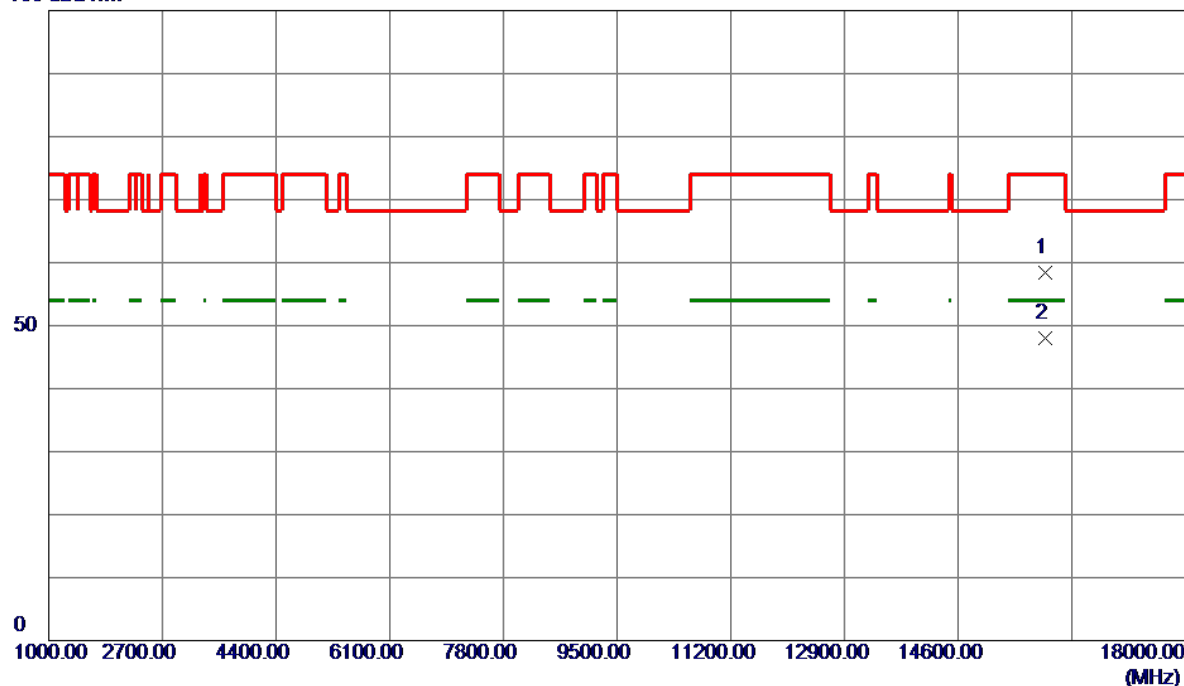
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5299.2000	81.12	13.38	94.50	999.00	-904.50	AVG	No Limit
2 *	5304.0000	89.56	13.39	102.95	68.20	34.75	Peak	No Limit
3	5350.0000	37.01	13.46	50.47	74.00	-23.53	Peak	
4	5350.0000	26.80	13.46	40.26	54.00	-13.74	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX N(HT20) Mode 5300 MHz	Polarization	Vertical
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100 dBuV/m

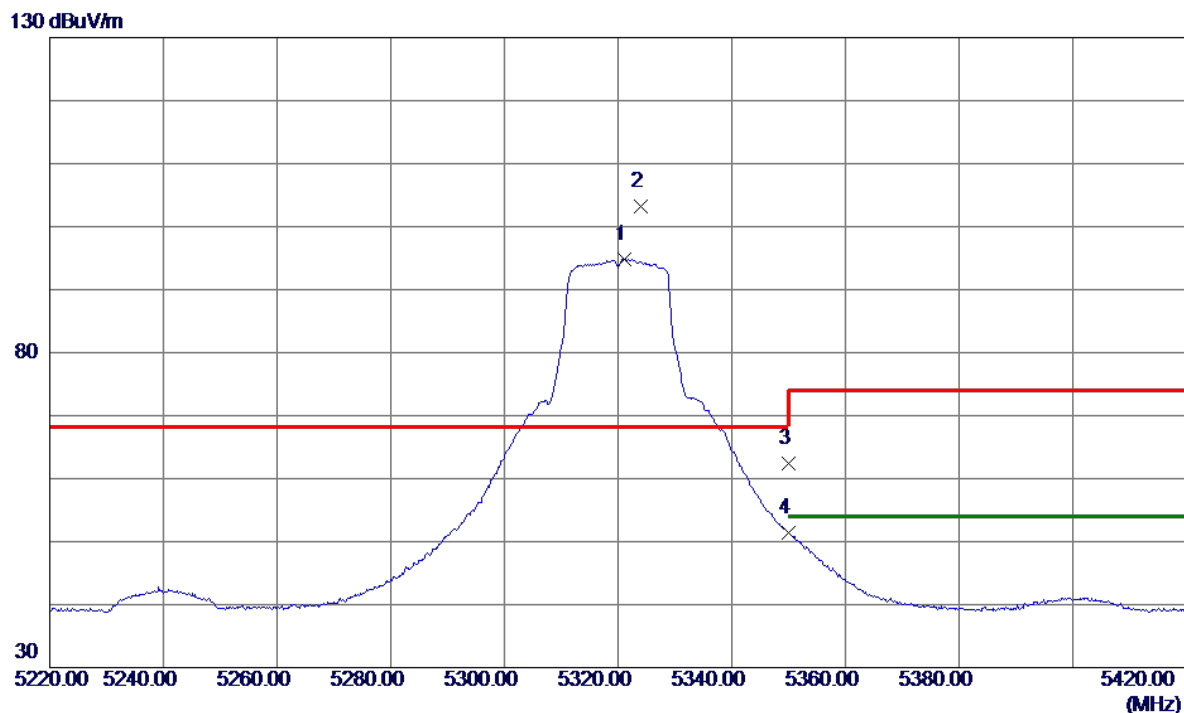


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15900.4000	50.44	8.01	58.45	74.00	-15.55	Peak	
2 *	15902.3000	40.08	8.01	48.09	54.00	-5.91	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX N(HT20) Mode 5320 MHz	Polarization	Vertical
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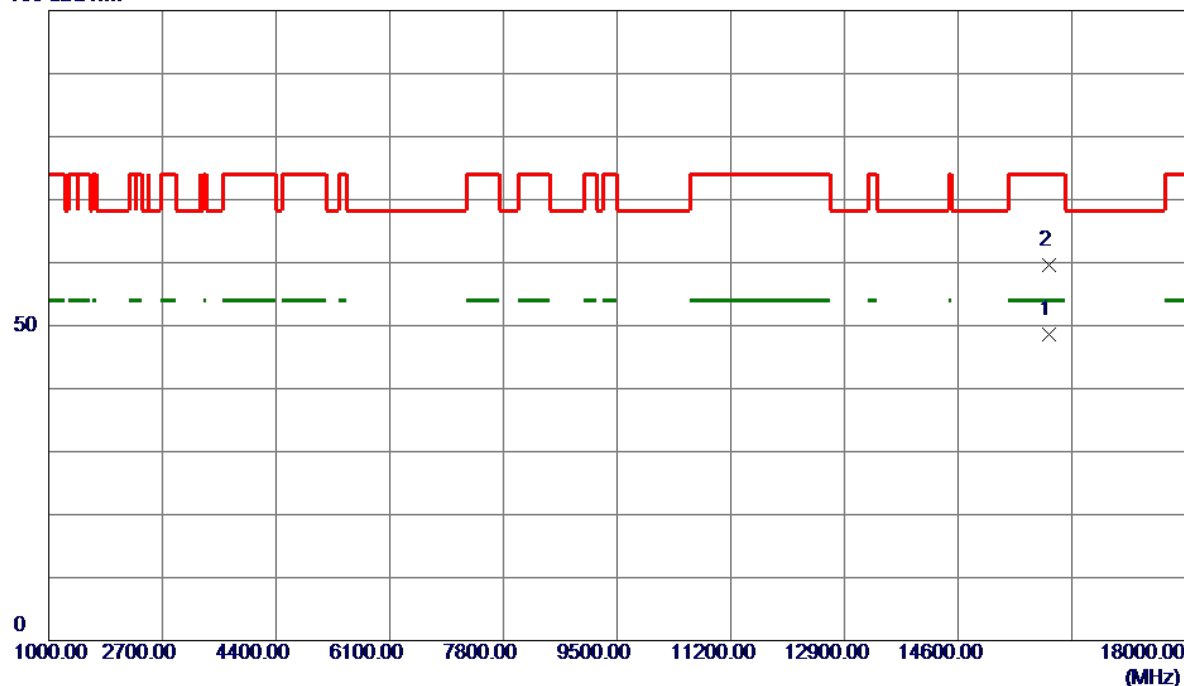
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5321.1000	81.47	13.42	94.89	999.00	-904.11	AVG	No Limit
2 *	5324.1000	89.73	13.42	103.15	68.20	34.95	Peak	No Limit
3	5350.0000	48.97	13.46	62.43	74.00	-11.57	Peak	
4	5350.0000	37.91	13.46	51.37	54.00	-2.63	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX N(HT20) Mode 5320 MHz	Polarization	Vertical
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100 dBuV/m



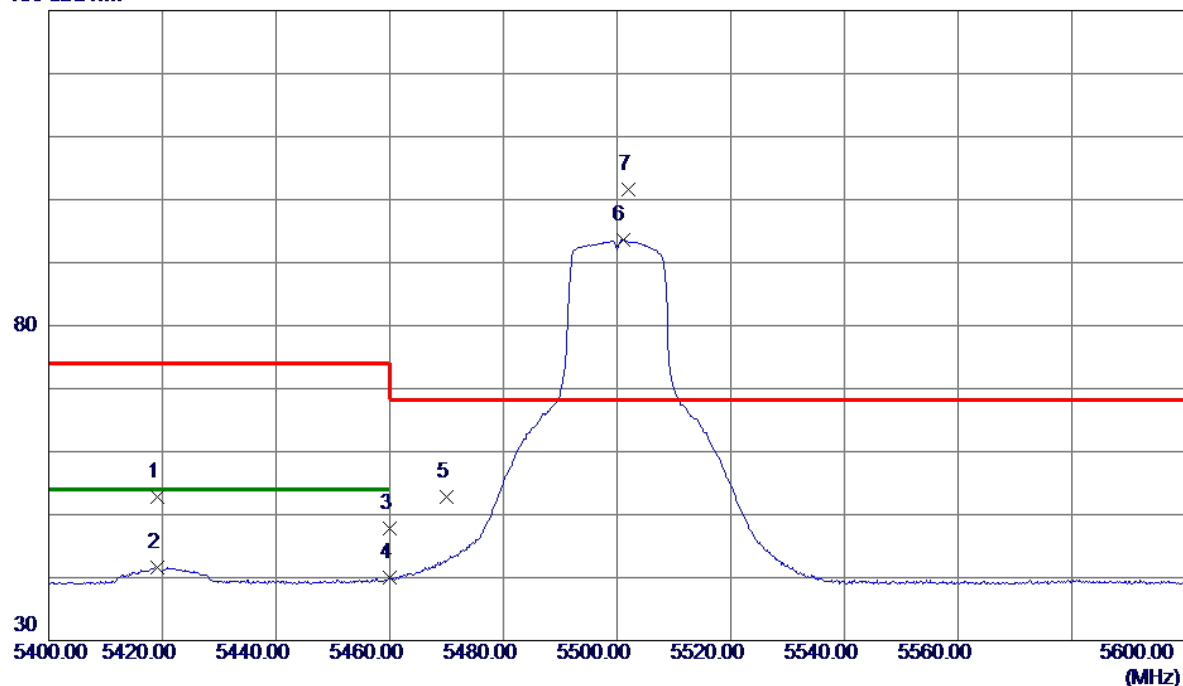
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15960.8000	40.57	8.05	48.62	54.00	-5.38	AVG	
2	15965.1000	51.46	8.06	59.52	74.00	-14.48	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Vertical
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130 dBuV/m



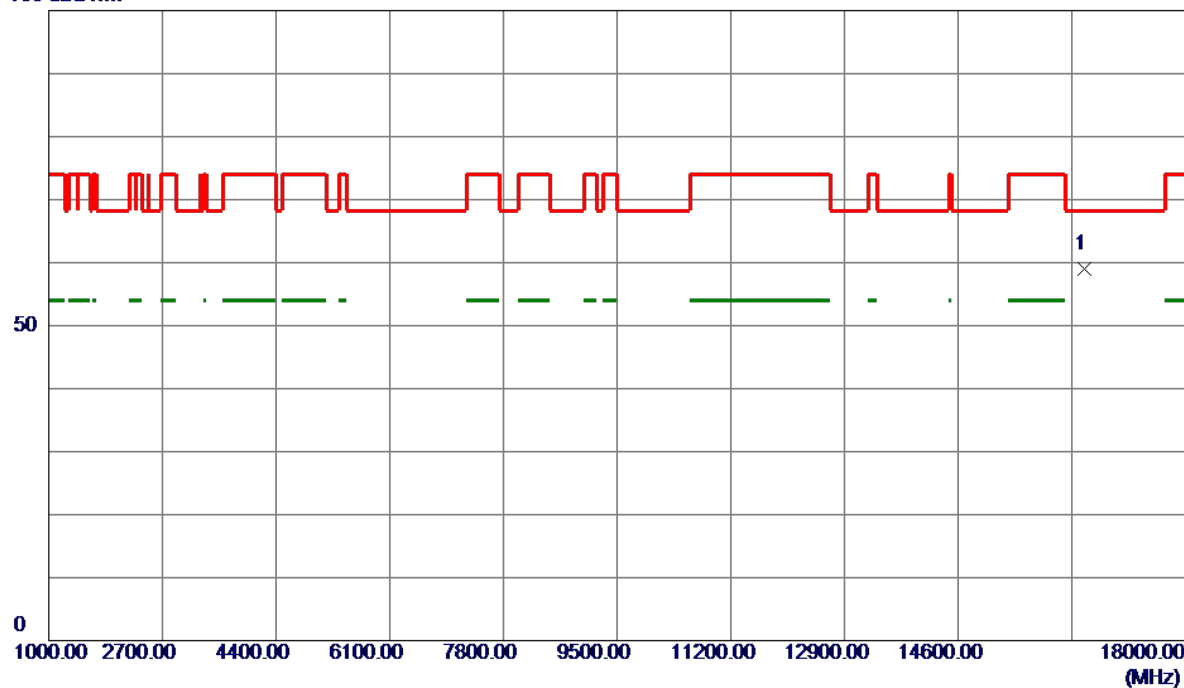
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5419.1000	39.22	13.58	52.80	74.00	-21.20	Peak	
2	5419.1000	28.08	13.58	41.66	54.00	-12.34	AVG	
3	5460.0000	34.23	13.65	47.88	74.00	-26.12	Peak	
4	5460.0000	26.28	13.65	39.93	54.00	-14.07	AVG	
5	5470.0000	39.18	13.67	52.85	68.20	-15.35	Peak	
6	5501.0000	79.89	13.72	93.61	999.00	-905.39	AVG	No Limit
7 *	5501.9000	87.78	13.73	101.51	68.20	33.31	Peak	No Limit

REMARKS:

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

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Vertical
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100 dBuV/m



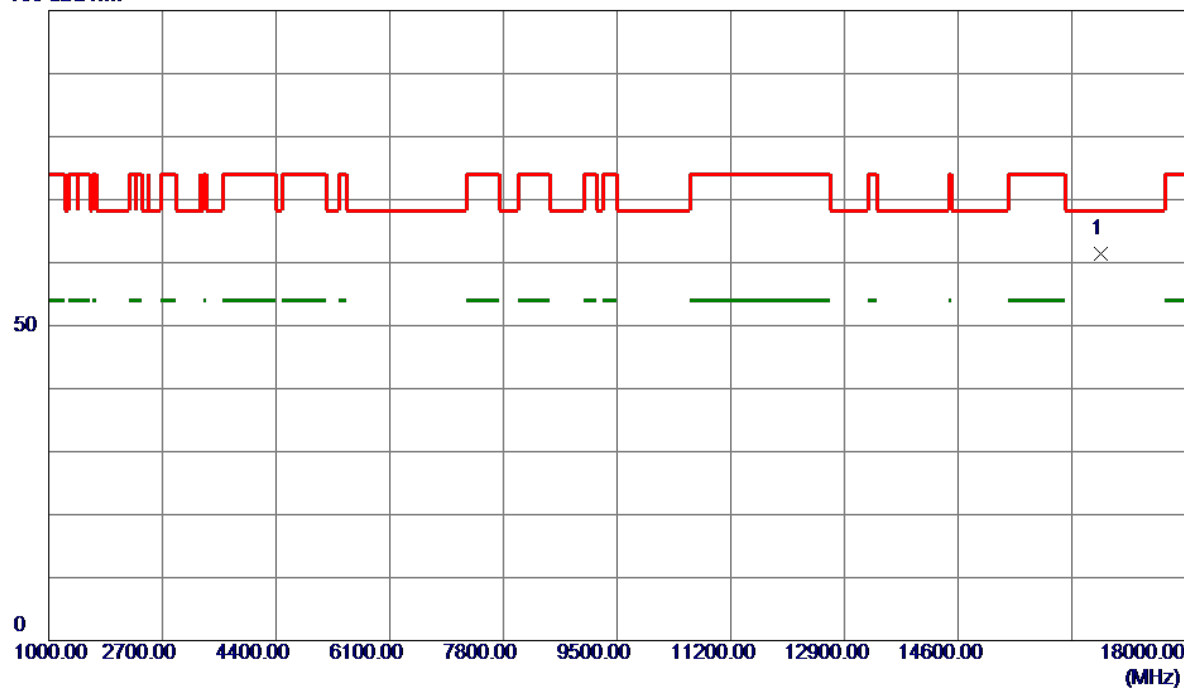
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	16495.6000	50.14	8.85	58.99	68.20	-9.21	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX A Mode 5580 MHz	Polarization	Vertical
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100 dBuV/m



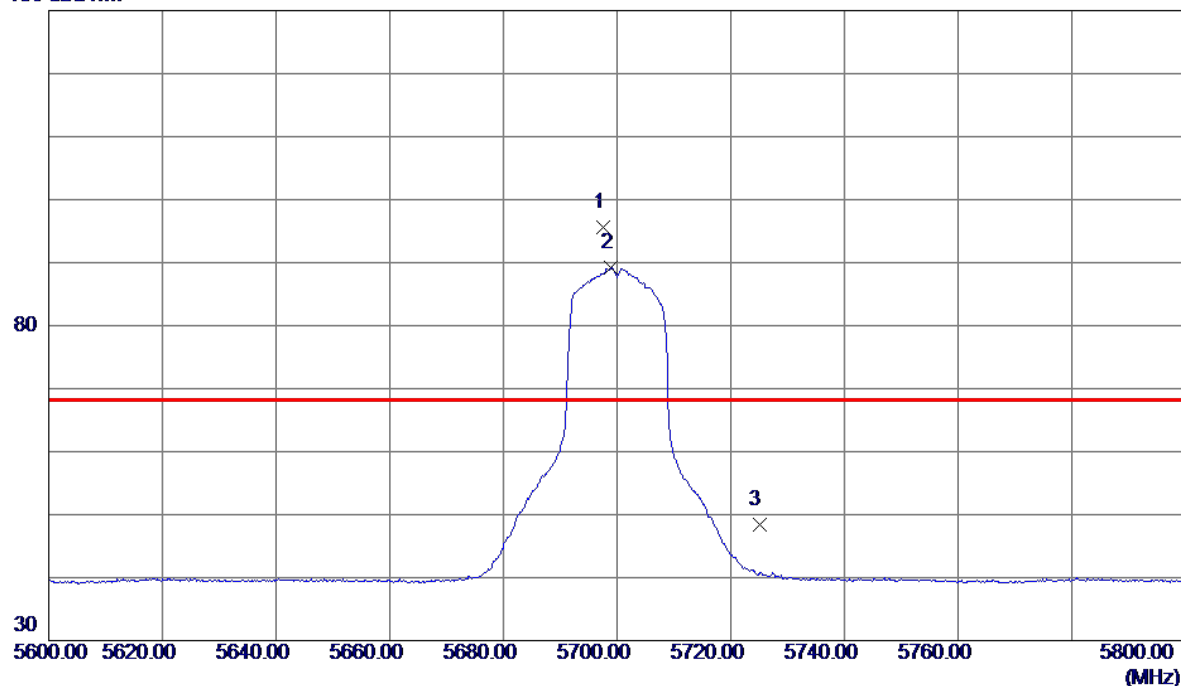
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	16742.3000	51.88	9.43	61.31	68.20	-6.89	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Vertical
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130 dBuV/m



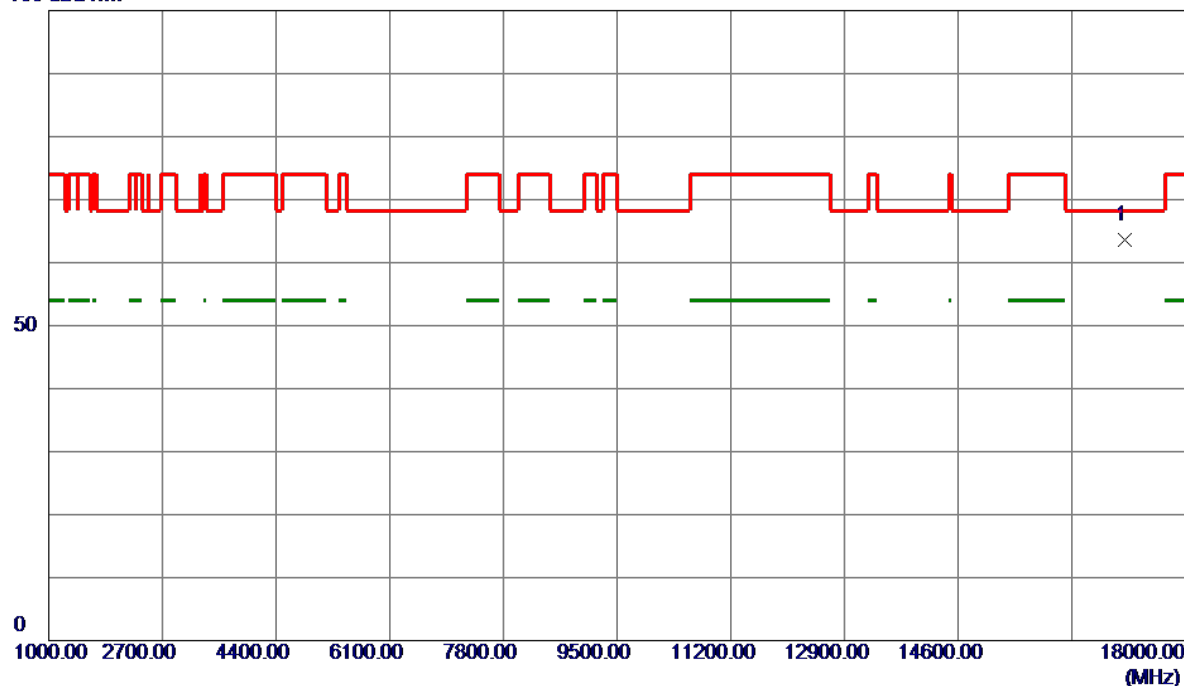
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5697.6000	81.32	14.27	95.59	68.20	27.39	Peak	No Limit
2	5698.9000	74.85	14.28	89.13	999.00	-909.87	AVG	No Limit
3	5725.0000	34.04	14.35	48.39	68.20	-19.81	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Vertical
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100 dBuV/m



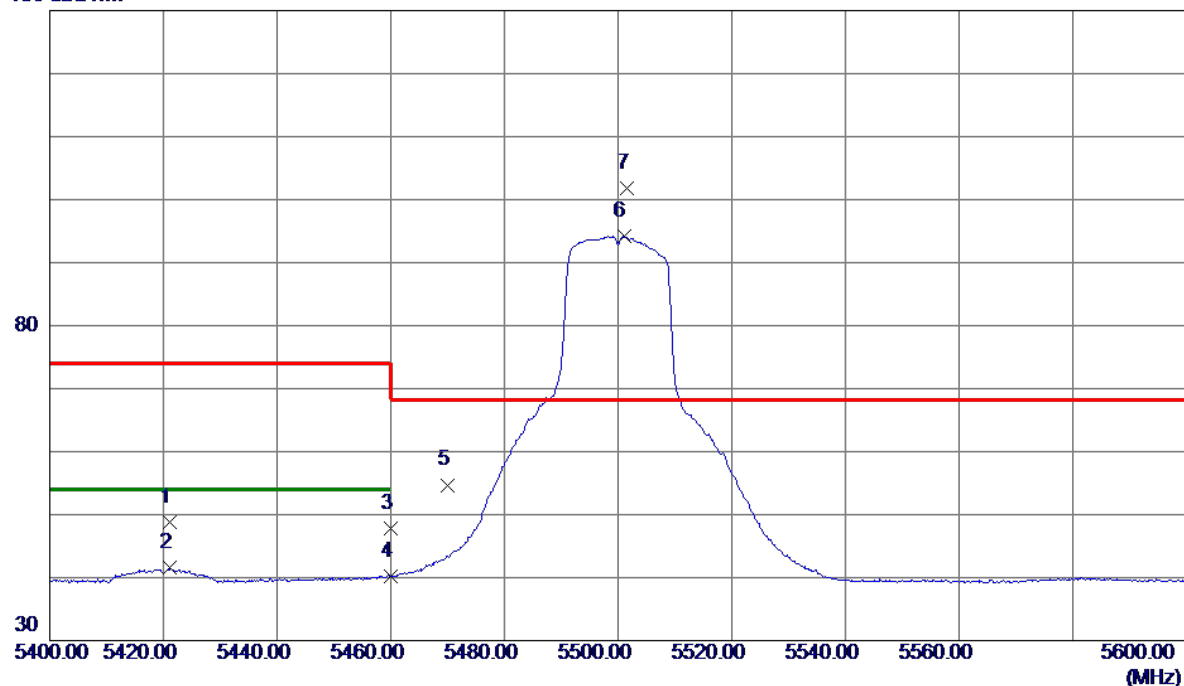
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	17097.4000	53.38	10.16	63.54	68.20	-4.66	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX N(HT20) Mode 5500 MHz	Polarization	Vertical
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130 dBuV/m



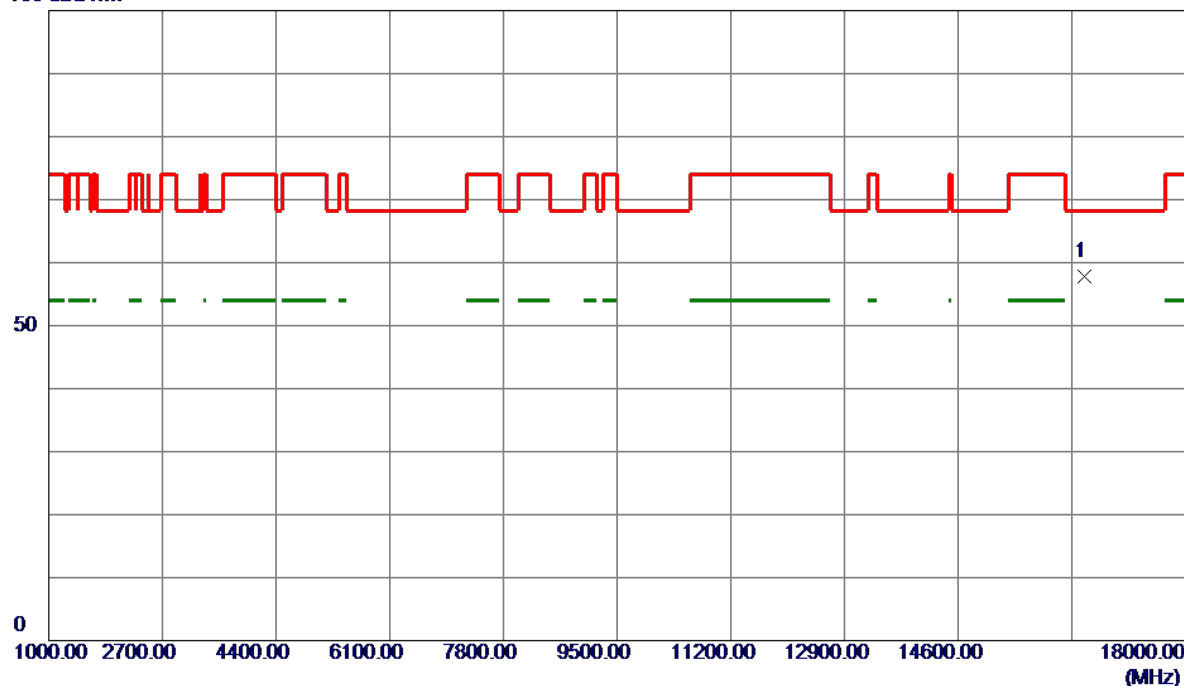
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5421.2000	35.12	13.59	48.71	74.00	-25.29	Peak	
2	5421.2000	27.96	13.59	41.55	54.00	-12.45	AVG	
3	5460.0000	34.12	13.65	47.77	74.00	-26.23	Peak	
4	5460.0000	26.54	13.65	40.19	54.00	-13.81	AVG	
5	5470.0000	41.03	13.67	54.70	68.20	-13.50	Peak	
6	5501.0000	80.45	13.72	94.17	999.00	-904.83	AVG	No Limit
7 *	5501.5000	88.14	13.72	101.86	68.20	33.66	Peak	No Limit

REMARKS:

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

Test Mode	UNII-2C_TX N(HT20) Mode 5500 MHz	Polarization	Vertical
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100 dBuV/m



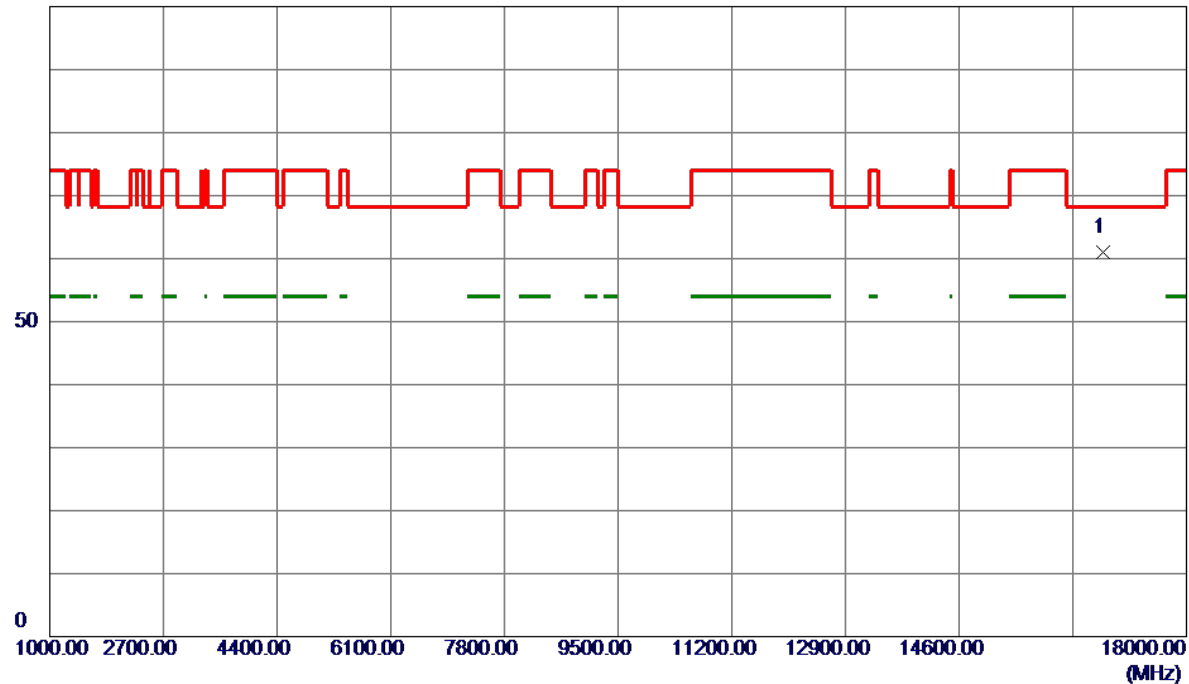
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	16493.9000	49.03	8.85	57.88	68.20	-10.32	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX N(HT20) Mode 5580 MHz	Polarization	Vertical
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100 dBuV/m



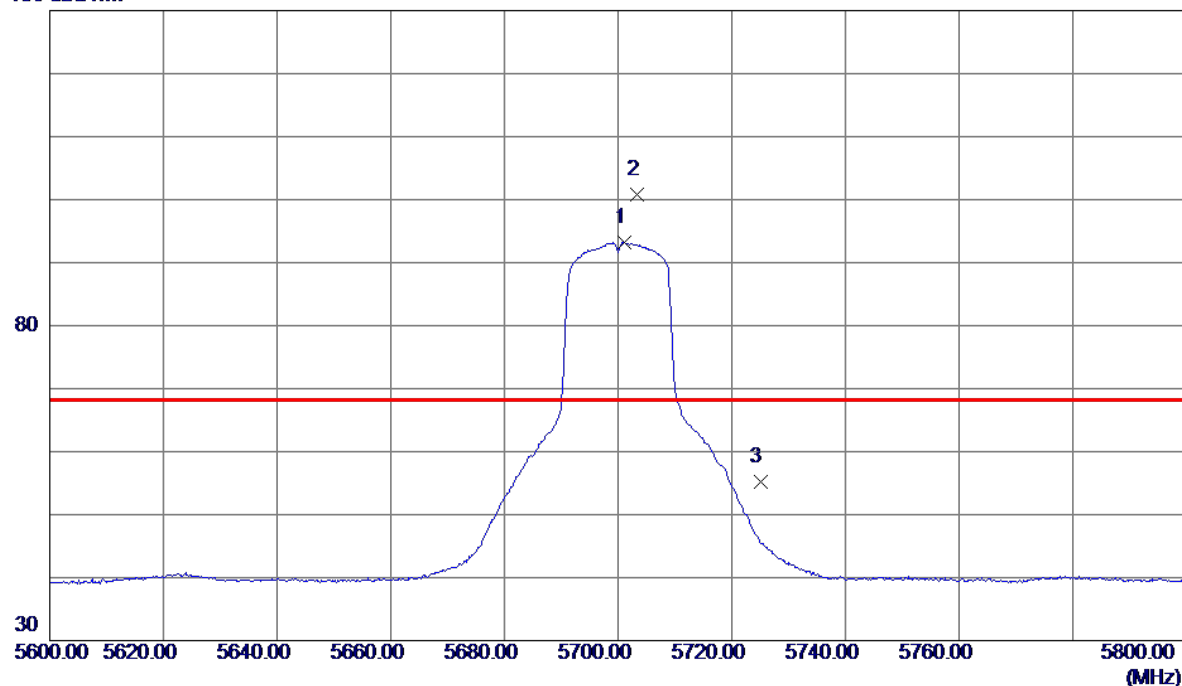
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	16745.2000	51.58	9.44	61.02	68.20	-7.18	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX N(HT20) Mode 5700 MHz	Polarization	Vertical
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130 dBuV/m



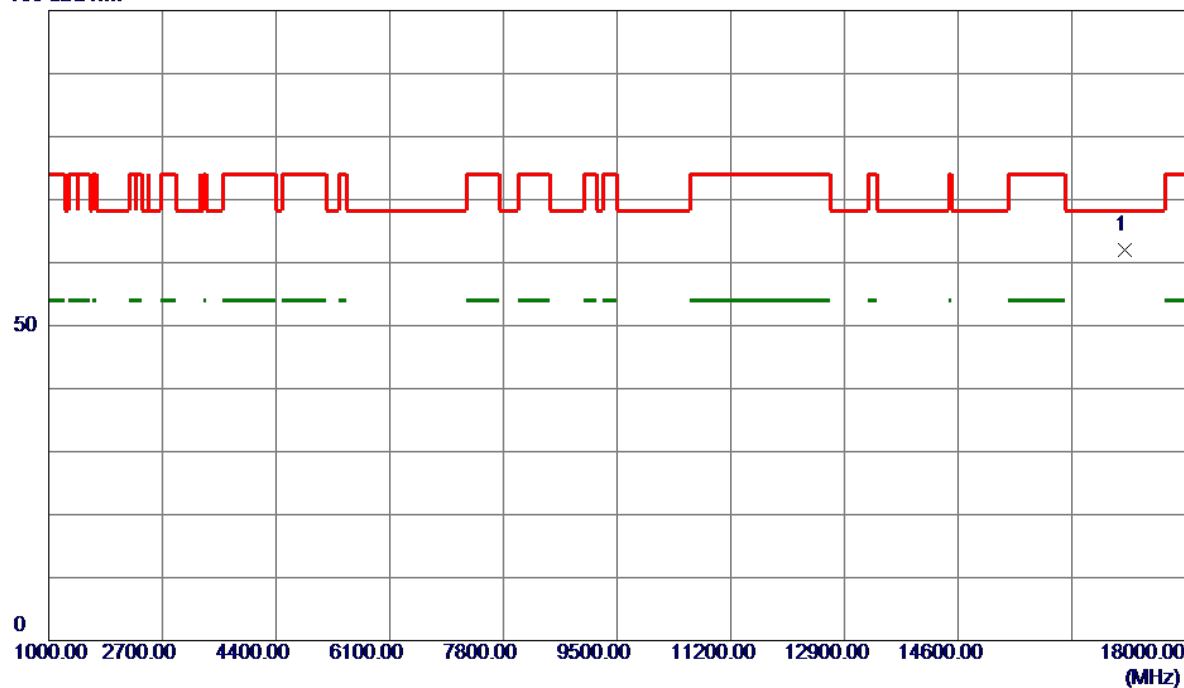
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5701.2000	78.93	14.28	93.21	999.00	-905.79	AVG	No Limit
2 *	5703.4000	86.56	14.29	100.85	68.20	32.65	Peak	No Limit
3	5725.0000	40.85	14.35	55.20	68.20	-13.00	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX N(HT20) Mode 5700 MHz	Polarization	Vertical
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100 dBuV/m

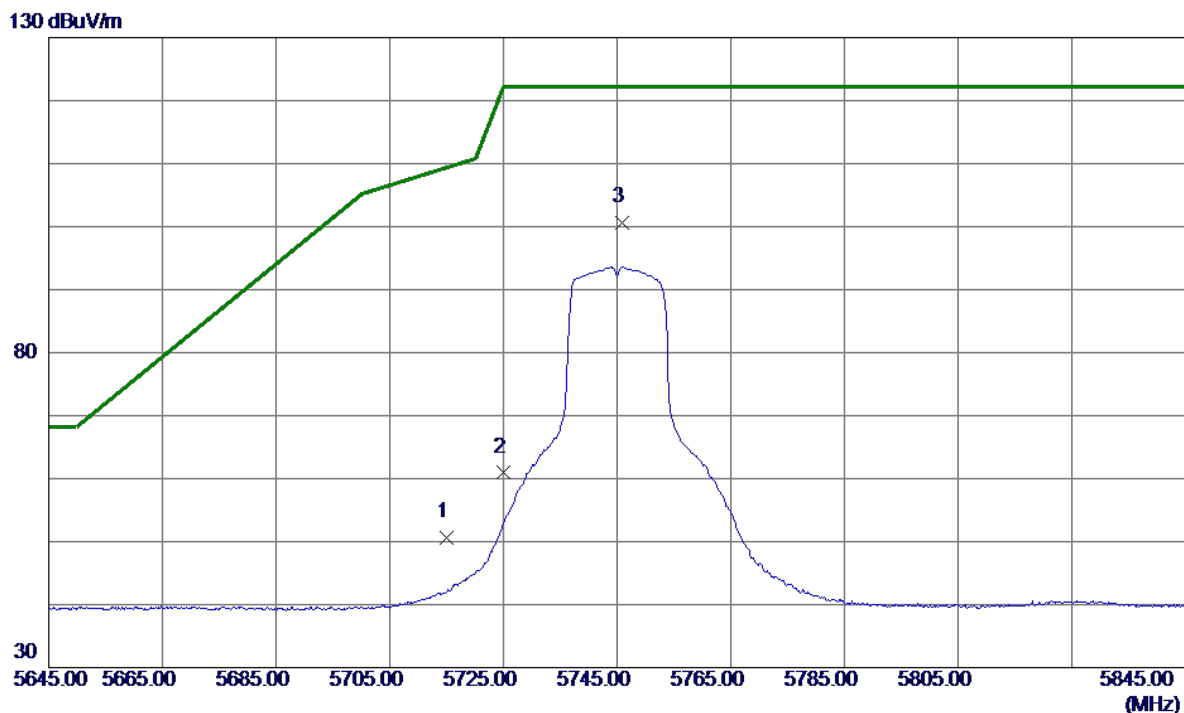


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	17102.5000	51.83	10.17	62.00	68.20	-6.20	Peak	

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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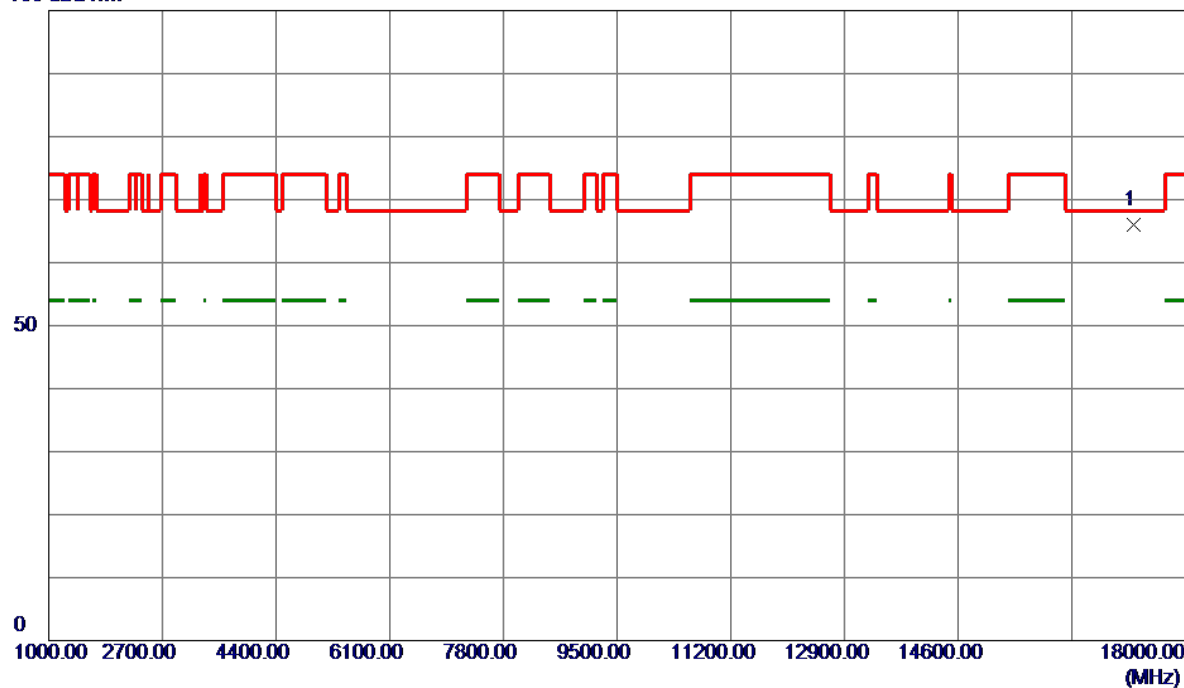
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	36.38	14.32	50.70	109.40	-58.70	Peak	
2	5725.0000	46.73	14.35	61.08	122.20	-61.12	Peak	
3 *	5745.9000	86.29	14.41	100.70	122.20	-21.50	Peak	No Limit

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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100 dBuV/m



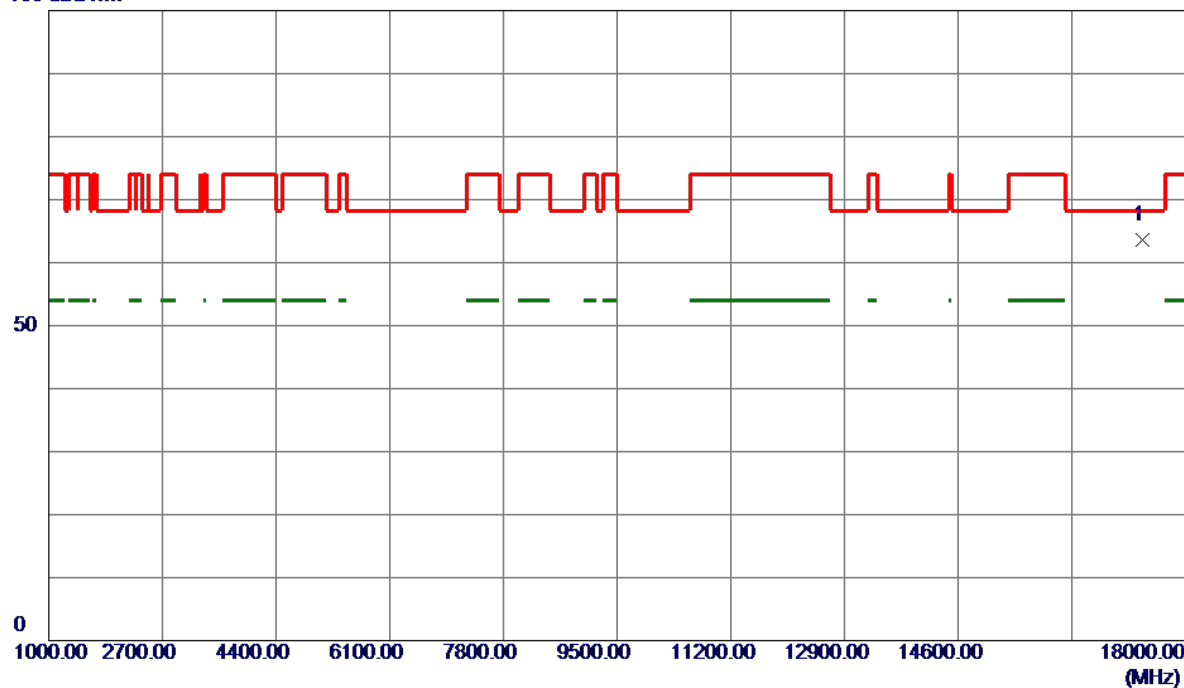
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	17233.8000	55.60	10.33	65.93	68.20	-2.27	Peak	

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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100 dBuV/m

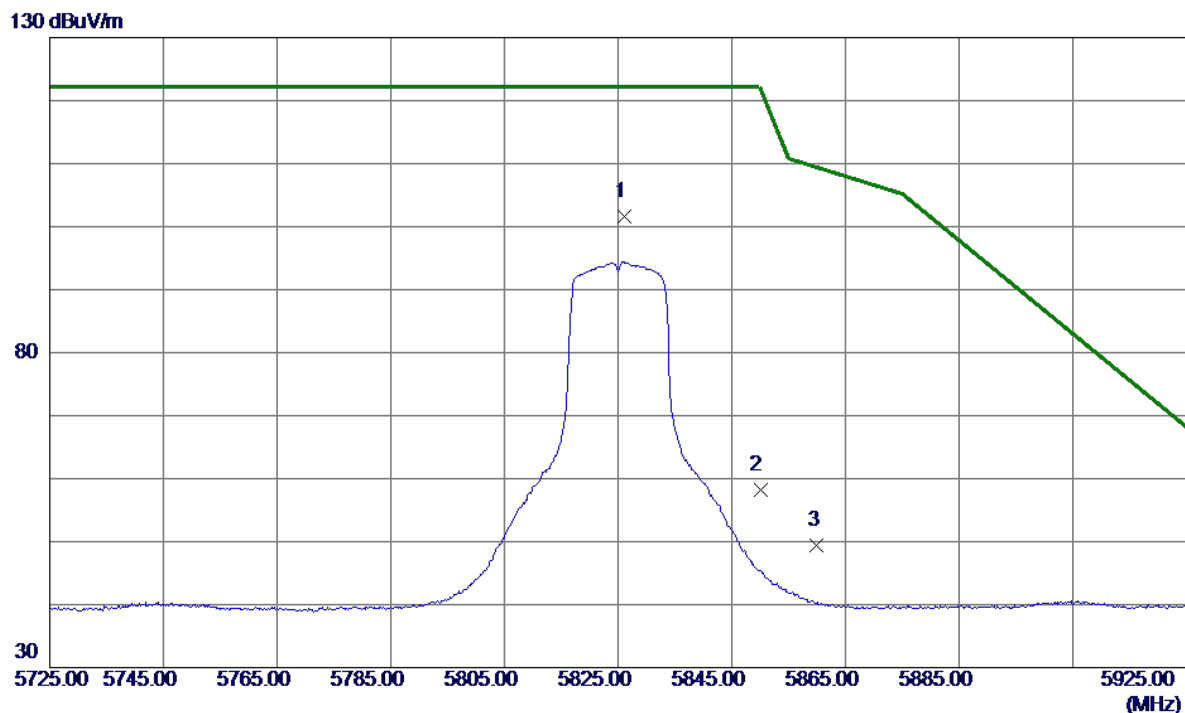


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	17352.1000	53.05	10.48	63.53	68.20	-4.67	Peak	

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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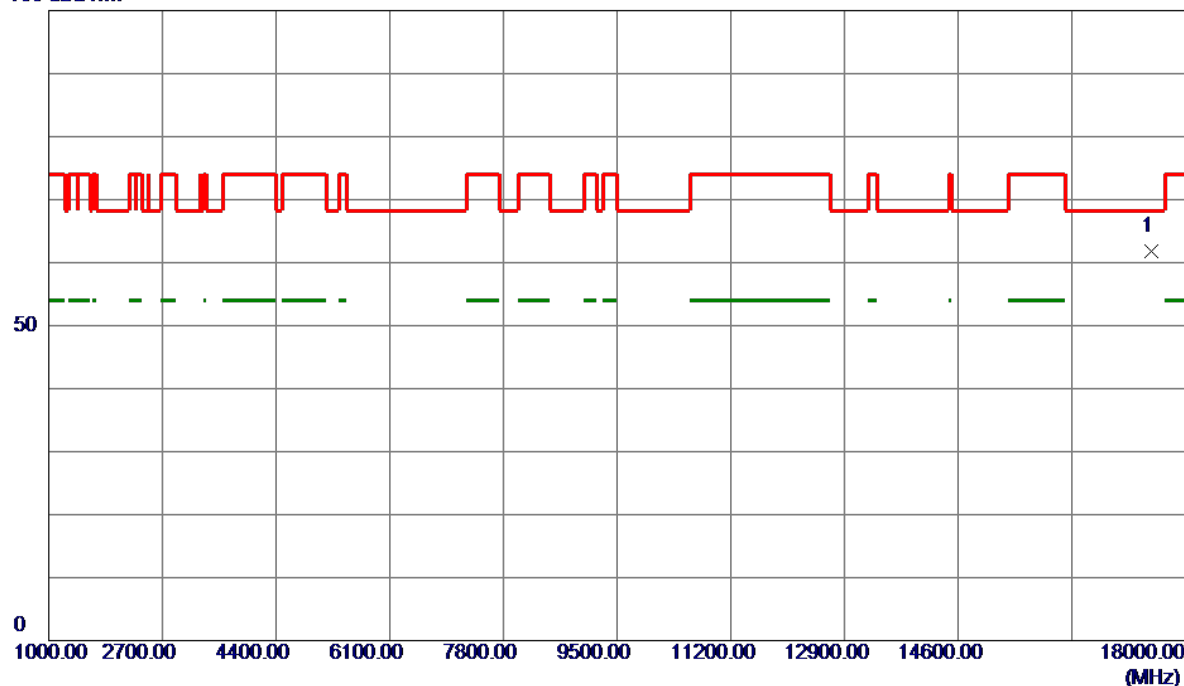
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5826.2000	87.01	14.63	101.64	122.20	-20.56	Peak	No Limit
2	5850.0000	43.57	14.70	58.27	122.20	-63.93	Peak	
3	5860.0000	34.75	14.73	49.48	109.40	-59.92	Peak	

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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100 dBuV/m

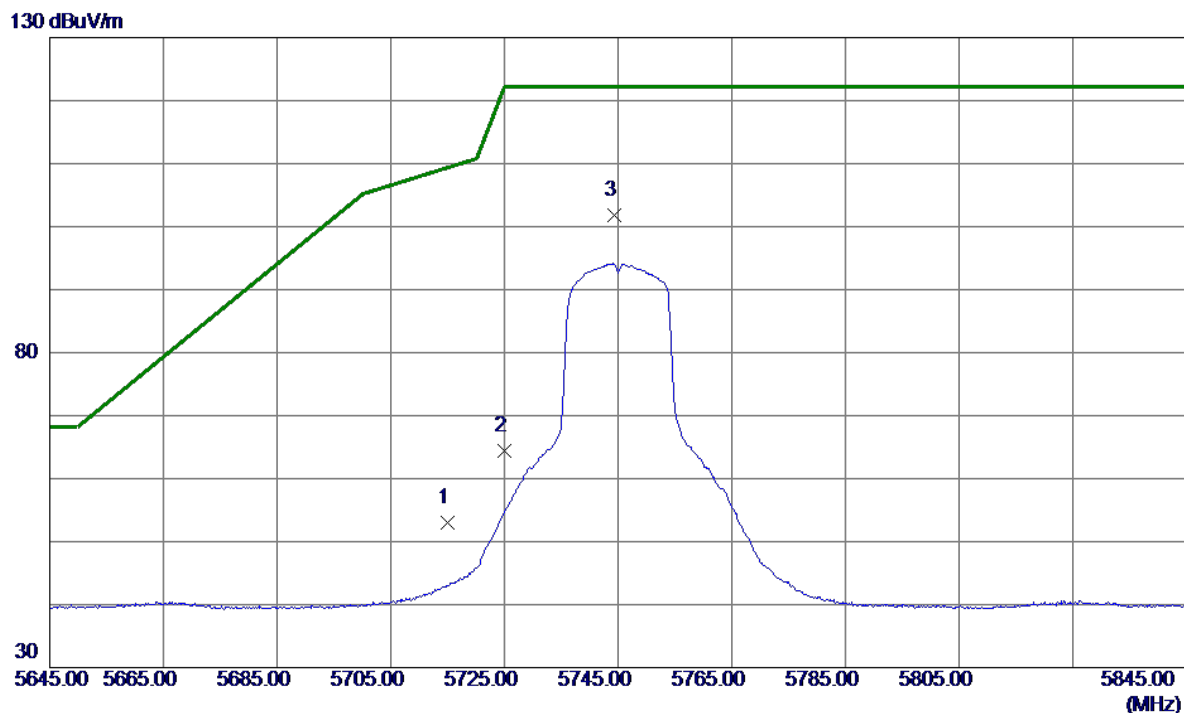


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	17481.5000	51.17	10.65	61.82	68.20	-6.38	Peak	

REMARKS:

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

Test Mode	UNII-3_TX N(HT20) Mode 5745 MHz	Polarization	Vertical
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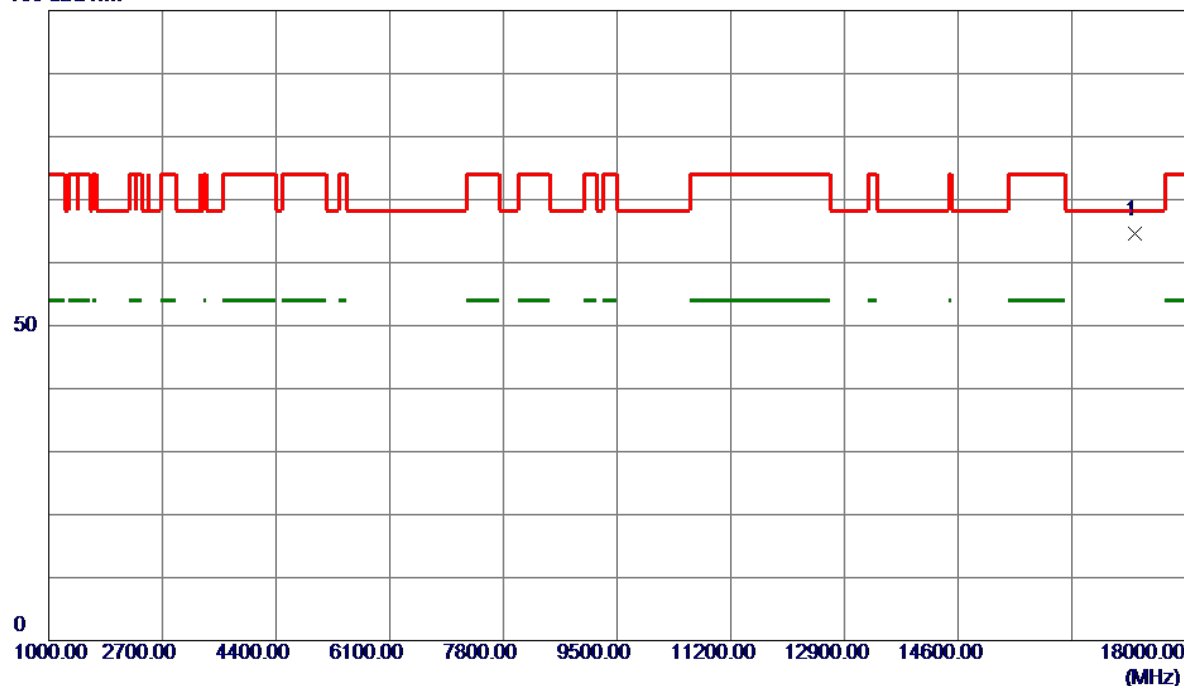
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	38.70	14.32	53.02	109.40	-56.38	Peak	
2	5725.0000	49.99	14.35	64.34	122.20	-57.86	Peak	
3 *	5744.3000	87.39	14.40	101.79	122.20	-20.41	Peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX N(HT20) Mode 5745 MHz	Polarization	Vertical
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100 dBuV/m



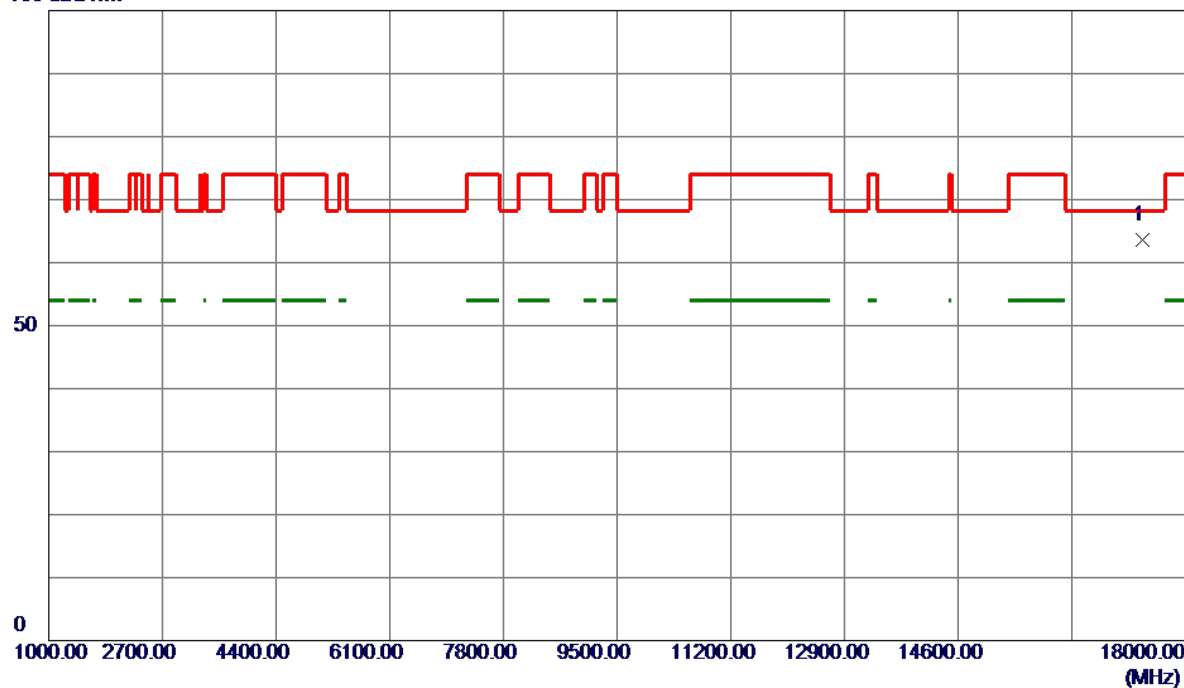
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	17240.0000	54.16	10.34	64.50	68.20	-3.70	Peak	

REMARKS:

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

Test Mode	UNII-3_TX N(HT20) Mode 5785 MHz	Polarization	Vertical
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100 dBuV/m

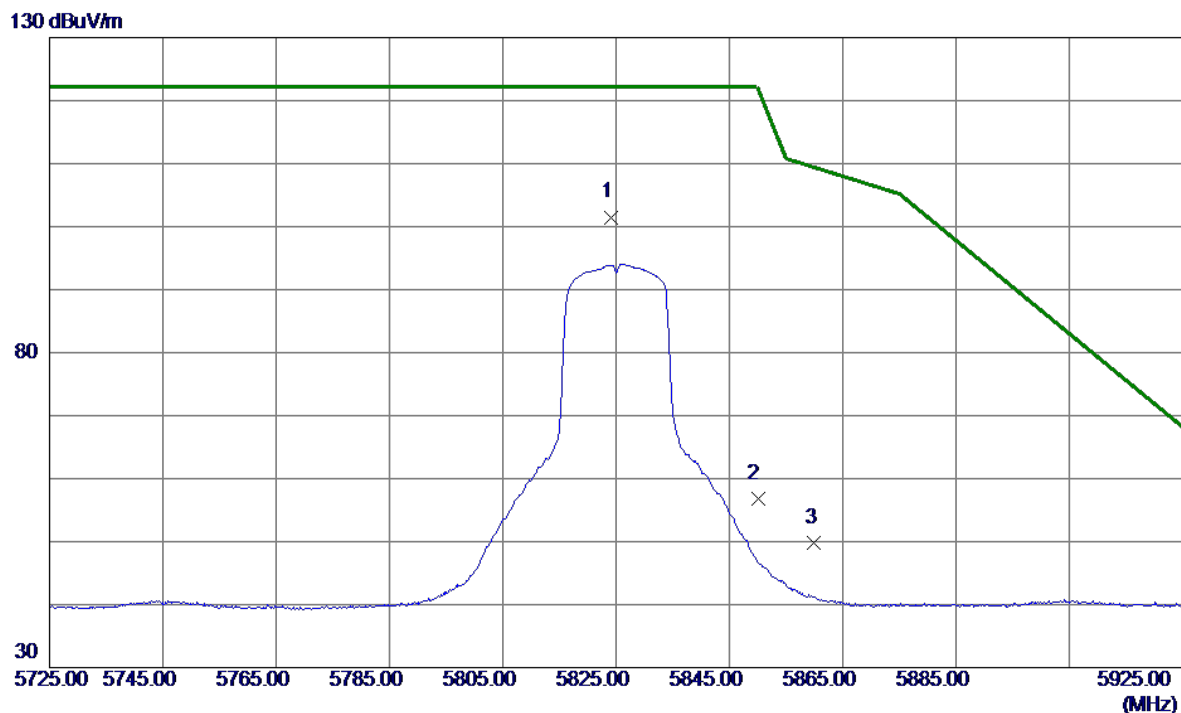


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	17357.7000	53.12	10.49	63.61	68.20	-4.59	Peak	

REMARKS:

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

Test Mode	UNII-3_TX N(HT20) Mode 5825 MHz	Polarization	Vertical
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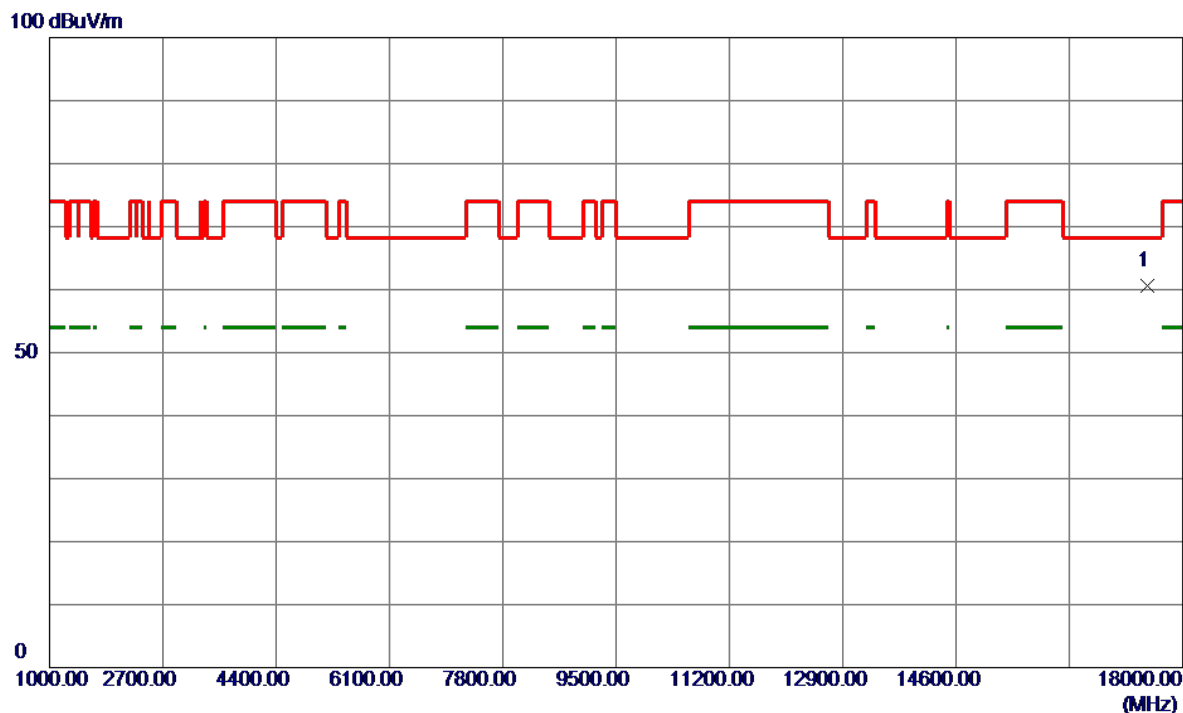


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5824.2000	86.87	14.63	101.50	122.20	-20.70	Peak	No Limit
2	5850.0000	42.17	14.70	56.87	122.20	-65.33	Peak	
3	5860.0000	35.05	14.73	49.78	109.40	-59.62	Peak	

REMARKS:

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

Test Mode	UNII-3_TX N(HT20) Mode 5825 MHz	Polarization	Vertical
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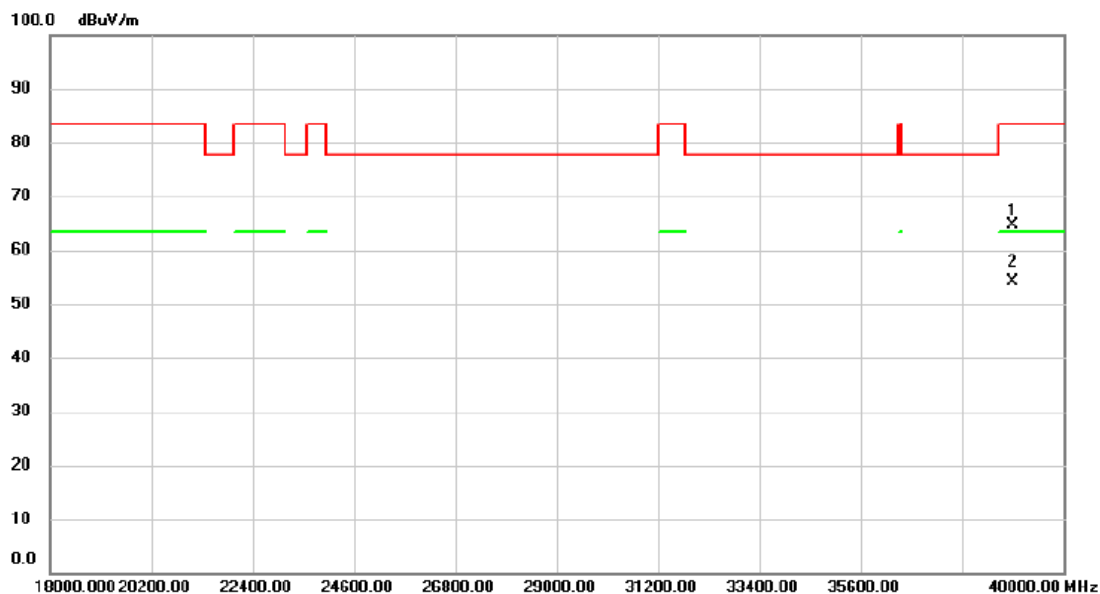


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17480.3000	49.86	10.65	60.51	68.20	-7.69	Peak	

REMARKS:

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

Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Vertical
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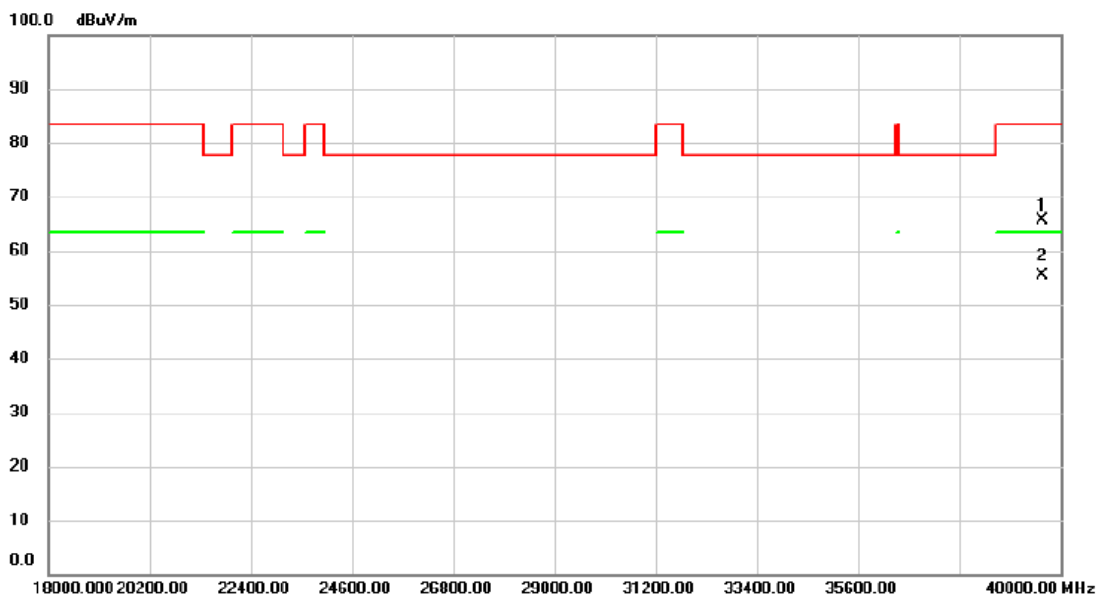


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38911.00	53.12	11.48	64.60	83.50	-18.90	peak	
2	*	38911.00	42.67	11.48	54.15	63.50	-9.35	AVG	

REMARKS:

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

Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Horizontal
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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		39604.00	53.69	11.96	65.65	83.50	-17.85	peak	
2	*	39604.00	43.41	11.96	55.37	63.50	-8.13	AVG	

REMARKS:

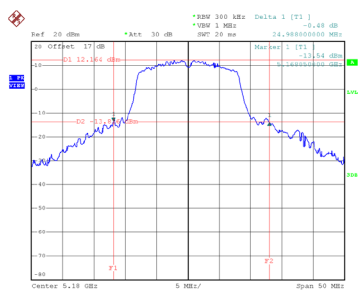
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
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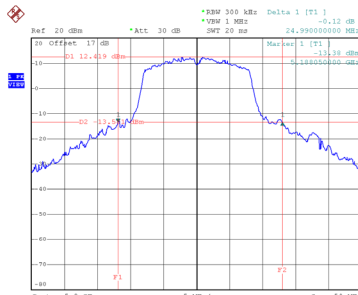
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	24.988	16.700
40	5200	24.990	16.600
48	5240	24.488	16.600

CH36



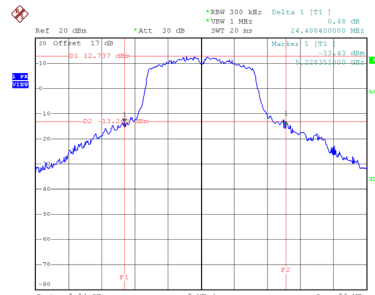
Date: 24.APR.2024 16:19:29

CH40
26 dB Bandwidth



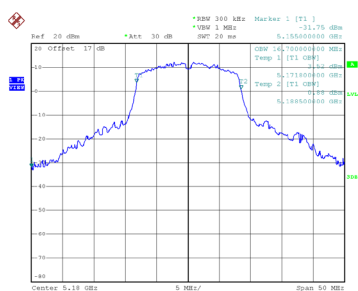
Date: 24.APR.2024 16:20:49

CH48

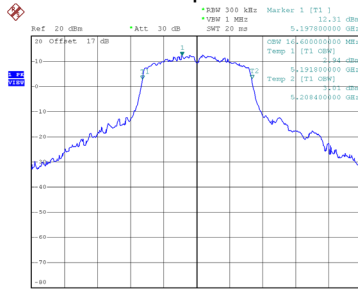


Date: 24.APR.2024 16:23:26

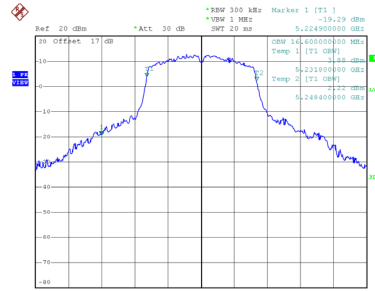
99 % Occupied Bandwidth



Date: 24.APR.2024 16:19:52



Date: 24.APR.2024 16:20:14

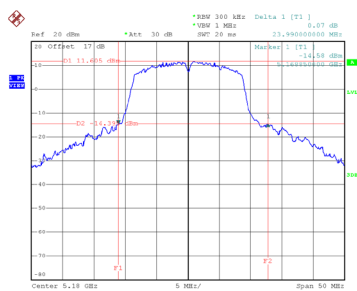


Date: 24.APR.2024 16:22:47

Test Mode	UNII-1_TX N(HT20) Mode
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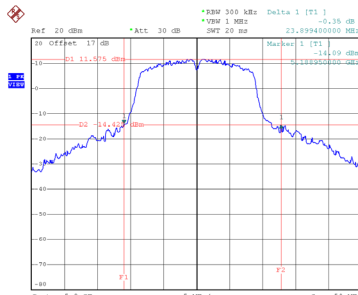
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	23.990	17.700
40	5200	23.899	17.700
48	5240	24.398	17.700

CH36



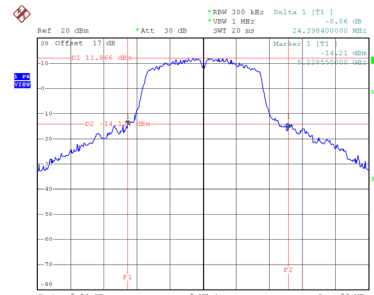
Date: 24.APR.2024 16:42:59

CH40
26 dB Bandwidth



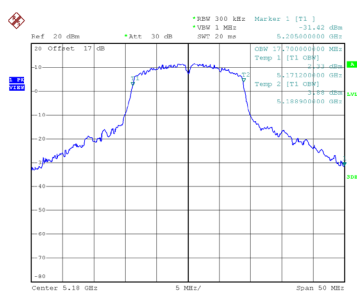
Date: 24.APR.2024 16:45:27

CH48

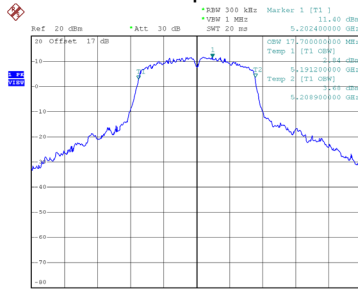


Date: 24.APR.2024 16:46:39

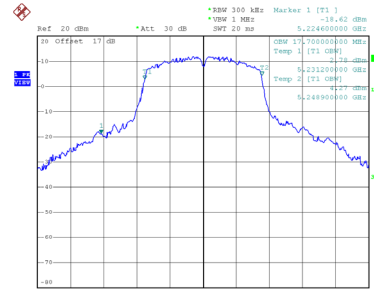
99 % Occupied Bandwidth



Date: 24.APR.2024 16:42:18



Date: 24.APR.2024 16:44:46

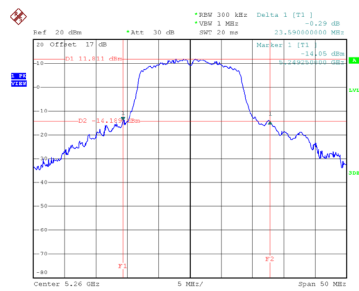


Date: 24.APR.2024 16:45:58

Test Mode	UNII-2A_TX A Mode
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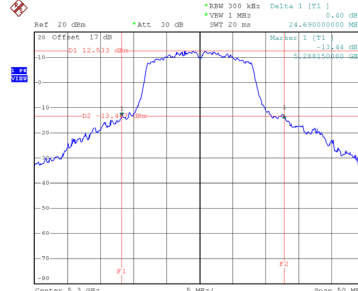
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
52	5260	23.590	16.600
60	5300	24.690	16.600
64	5320	24.589	16.600

CH52



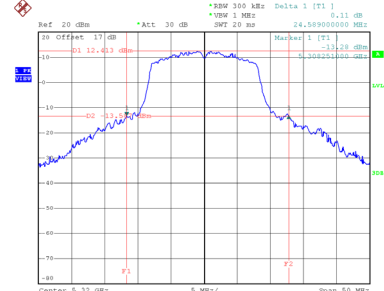
Date: 24.APR.2024 16:25:06

CH60
26 dB Bandwidth



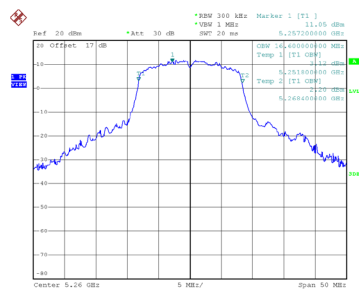
Date: 24.APR.2024 16:31:16

CH64

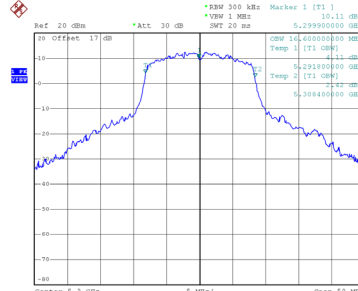


Date: 24.APR.2024 16:32:29

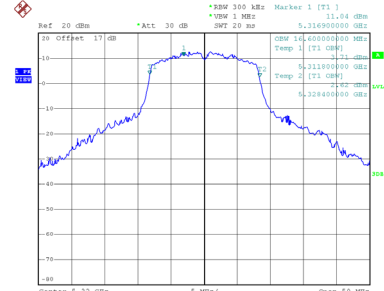
99 % Occupied Bandwidth



Date: 24.APR.2024 16:24:24



Date: 24.APR.2024 16:30:38

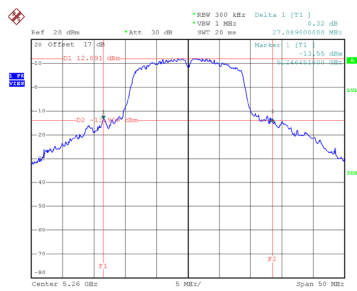


Date: 24.APR.2024 16:31:53

Test Mode	UNII-2A_TX N(HT20) Mode
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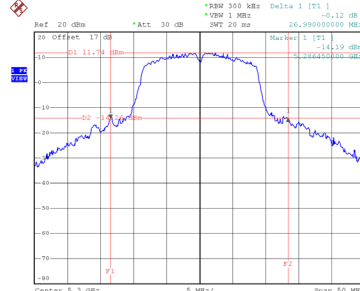
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
52	5260	27.089	17.900
60	5300	26.990	17.800
64	5320	27.050	17.800

CH52



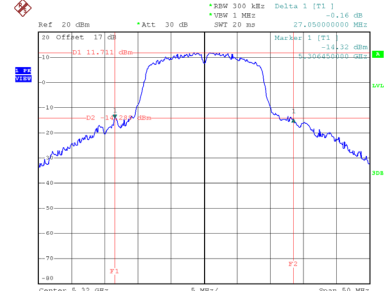
Date: 24.APR.2024 16:47:48

CH60
26 dB Bandwidth



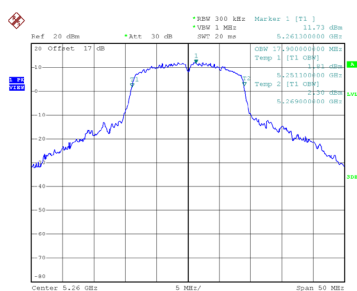
Date: 24.APR.2024 16:49:02

CH64

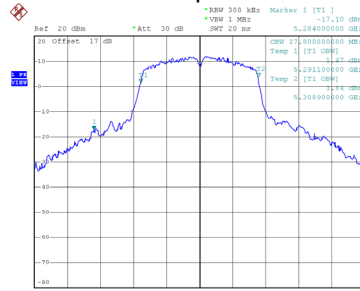


Date: 24.APR.2024 16:50:04

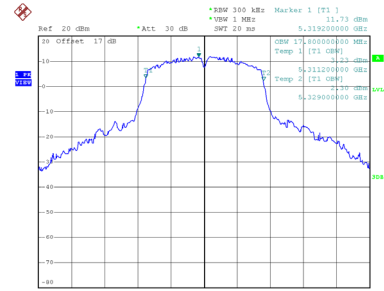
99 % Occupied Bandwidth



Date: 24.APR.2024 16:47:07



Date: 24.APR.2024 16:48:28

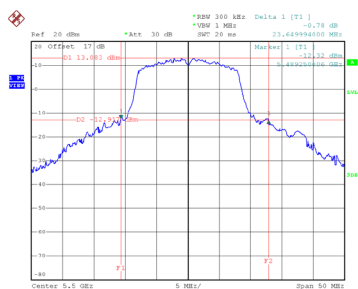


Date: 24.APR.2024 16:49:30

Test Mode	UNII-2C_TX A Mode
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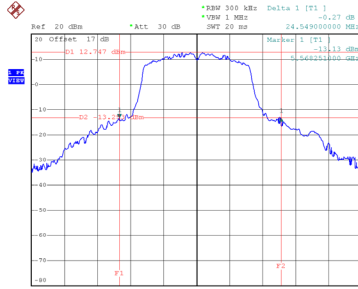
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
100	5500	23.650	16.600
116	5580	24.549	16.600
140	5700	24.890	16.600

CH100



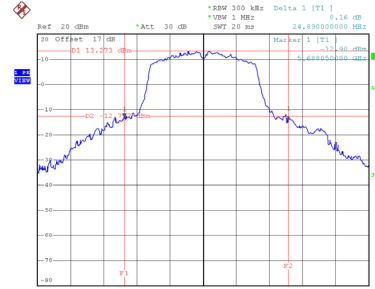
Date: 24.APR.2024 16:33:55

CH116
26 dB Bandwidth



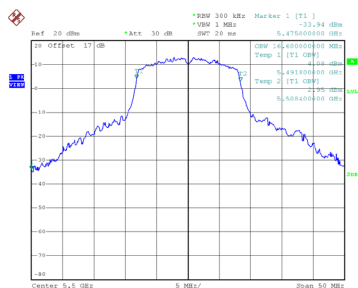
Date: 24.APR.2024 16:34:59

CH140

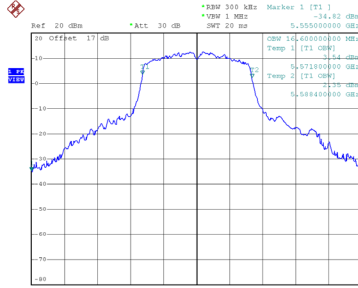


Date: 24.APR.2024 16:36:17

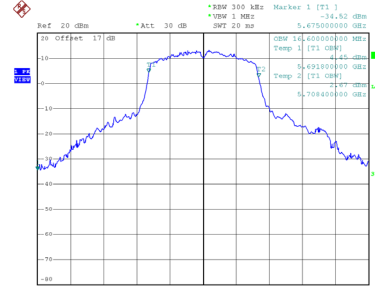
99 % Occupied Bandwidth



Date: 24.APR.2024 16:33:16



Date: 24.APR.2024 16:34:23

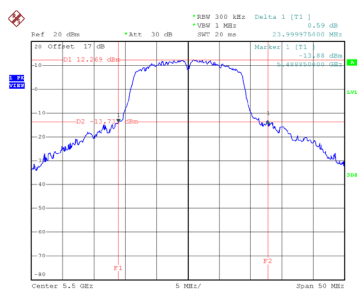


Date: 24.APR.2024 16:35:34

Test Mode	UNII-2C_TX N(HT20) Mode
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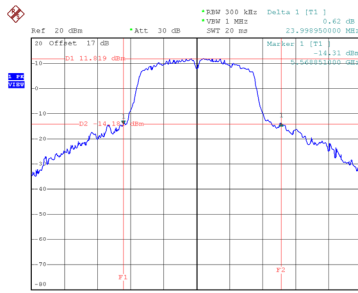
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
100	5500	24.000	17.700
116	5580	23.999	17.700
140	5700	26.790	17.700

CH100



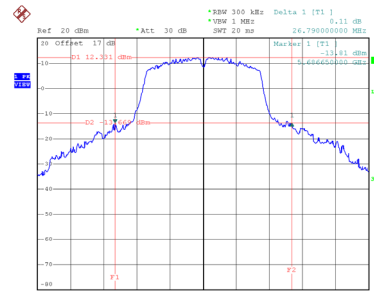
Date: 24.APR.2024 16:51:19

CH116
26 dB Bandwidth



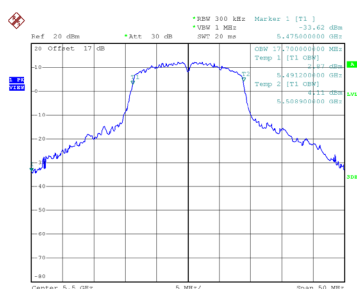
Date: 24.APR.2024 16:52:42

CH140

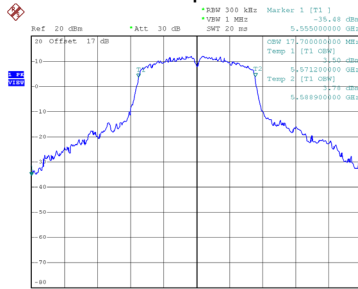


Date: 24.APR.2024 16:54:18

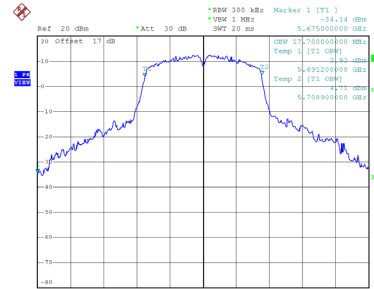
99 % Occupied Bandwidth



Date: 24.APR.2024 16:50:36



Date: 24.APR.2024 16:51:51

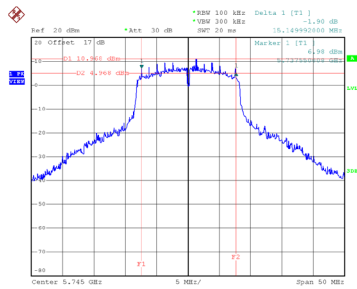


Date: 24.APR.2024 16:53:43

Test Mode	UNII-3_TX A Mode
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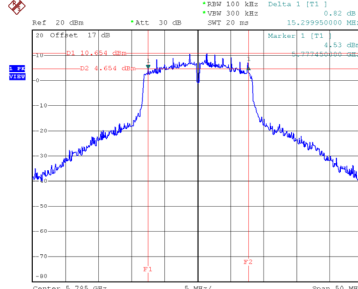
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	15.150	16.600	0.5	Complies
157	5785	15.300	16.700	0.5	Complies
165	5825	15.200	16.600	0.5	Complies

CH149



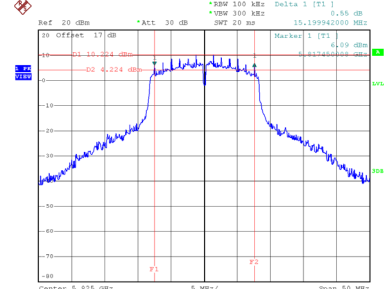
Date: 24.APR.2024 16:37:49

CH157
6 dB Bandwidth



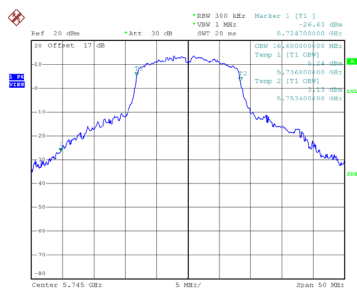
Date: 24.APR.2024 16:39:10

CH165

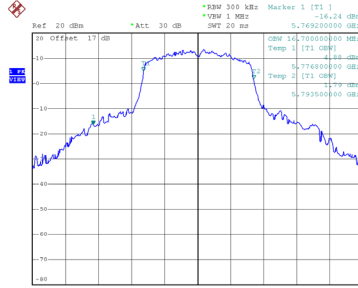


Date: 24.APR.2024 16:40:37

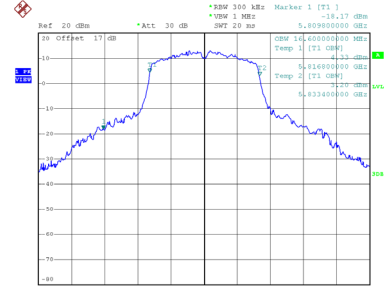
99 % Occupied Bandwidth



Date: 24.APR.2024 16:37:00



Date: 24.APR.2024 16:38:21

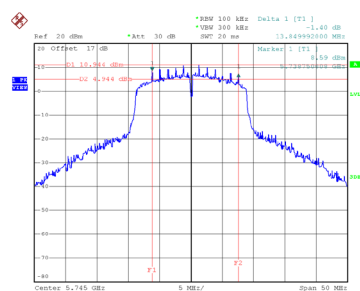


Date: 24.APR.2024 16:39:49

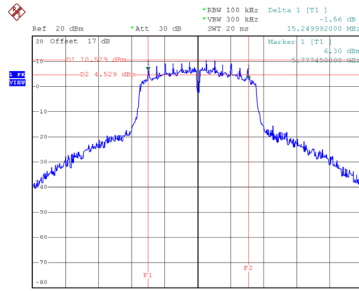
Test Mode	UNII-3_TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	13.850	17.700	0.5	Complies
157	5785	15.250	17.900	0.5	Complies
165	5825	15.200	17.700	0.5	Complies

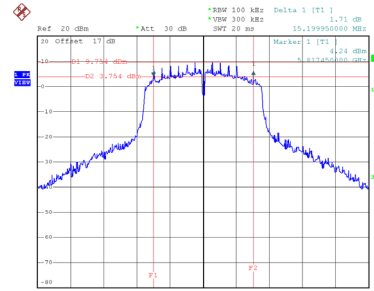
CH149



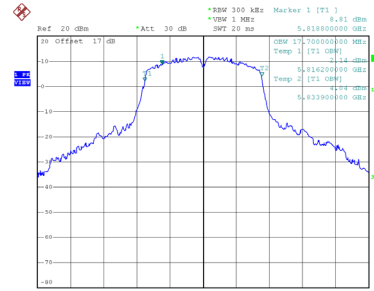
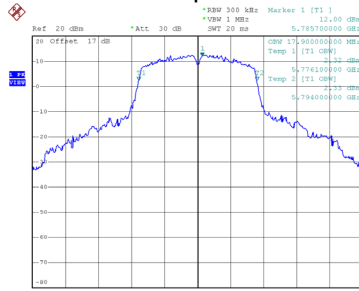
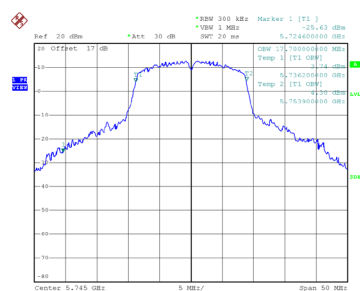
CH157
6 dB Bandwidth



CH165



99 % Occupied Bandwidth



APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	UNII-1_TX A Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.20	0.15	18.35	23.98	0.2500	Complies
40	5200	18.78	0.15	18.93	23.98	0.2500	Complies
48	5240	18.89	0.15	19.04	23.98	0.2500	Complies

Test Mode	UNII-1_TX N(HT20) Mode
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.12	0.17	18.29	23.98	0.2500	Complies
40	5200	18.49	0.17	18.66	23.98	0.2500	Complies
48	5240	18.74	0.17	18.91	23.98	0.2500	Complies

Test Mode	UNII-2A_TX A Mode
-----------	-------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	18.19	0.15	18.34	23.98	0.2500	Complies
60	5300	18.92	0.15	19.07	23.98	0.2500	Complies
64	5320	19.02	0.15	19.17	23.98	0.2500	Complies

Test Mode	UNII-2A_TX N(HT20) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	19.03	0.17	19.20	23.98	0.2500	Complies
60	5300	18.74	0.17	18.91	23.98	0.2500	Complies
64	5320	18.82	0.17	18.99	23.98	0.2500	Complies

Test Mode	UNII-2C_TX A Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	18.93	0.15	19.08	23.98	0.2500	Complies
116	5580	18.81	0.15	18.96	23.98	0.2500	Complies
140	5700	19.06	0.15	19.21	23.98	0.2500	Complies

Test Mode	UNII-2C_TX N(HT20) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	18.82	0.17	18.99	23.98	0.2500	Complies
116	5580	18.70	0.17	18.87	23.98	0.2500	Complies
140	5700	18.92	0.17	19.09	23.98	0.2500	Complies

Test Mode	UNII-3_TX A Mode
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	18.94	0.15	19.09	30.00	1.0000	Complies
157	5785	18.13	0.15	18.28	30.00	1.0000	Complies
165	5825	18.38	0.15	18.53	30.00	1.0000	Complies

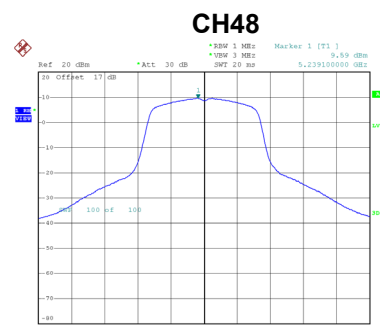
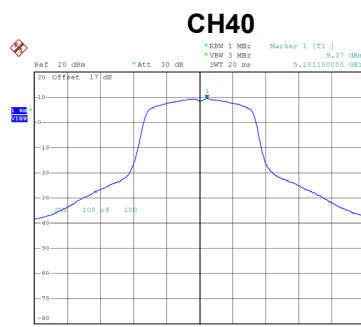
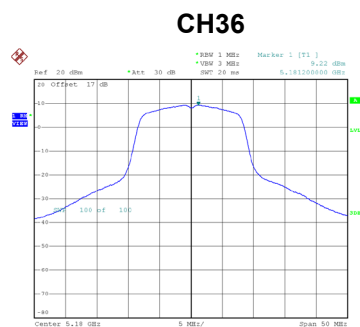
Test Mode	UNII-3_TX N(HT20) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	18.83	0.17	19.00	30.00	1.0000	Complies
157	5785	19.02	0.17	19.19	30.00	1.0000	Complies
165	5825	18.55	0.17	18.72	30.00	1.0000	Complies

APPENDIX G - POWER SPECTRAL DENSITY

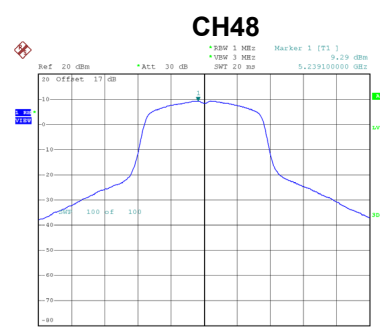
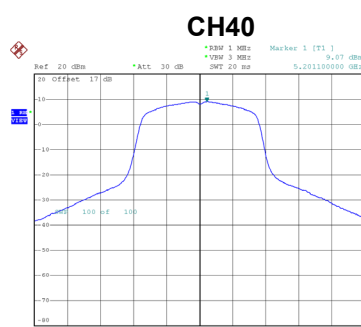
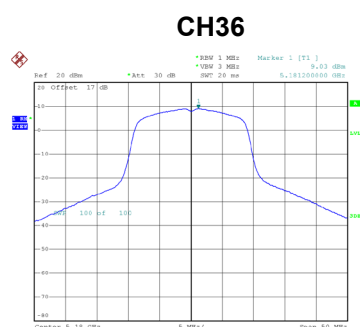
Test Mode	UNII-1_TX A Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.22	0.15	9.37	11.00	Complies
40	5200	9.37	0.15	9.52	11.00	Complies
48	5240	9.59	0.15	9.74	11.00	Complies



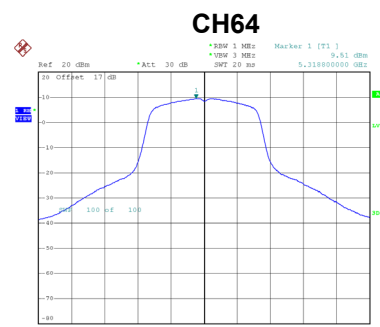
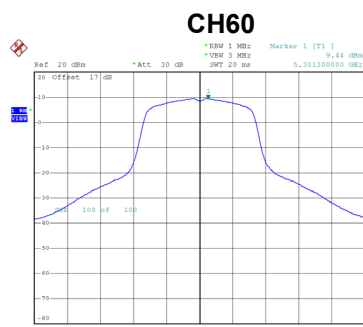
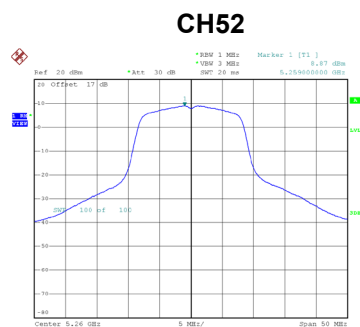
Test Mode	UNII-1_TX N(HT20) Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.03	0.17	9.20	11.00	Complies
40	5200	9.07	0.17	9.24	11.00	Complies
48	5240	9.29	0.17	9.46	11.00	Complies



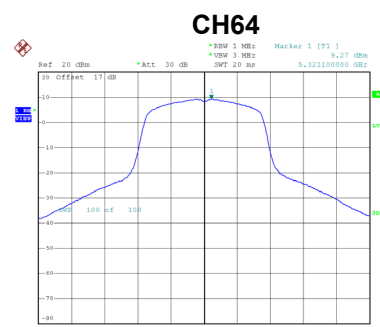
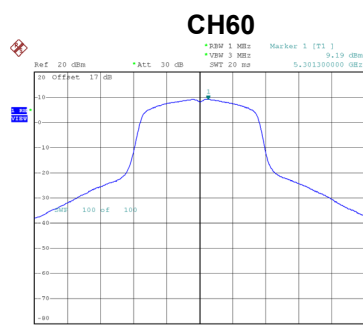
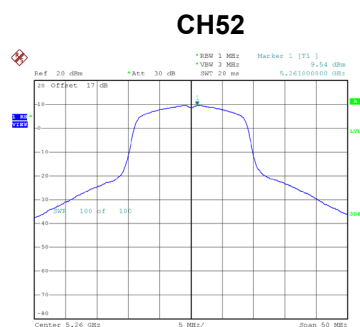
Test Mode	UNII-2A_TX A Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	8.87	0.15	9.02	11.00	Complies
60	5300	9.44	0.15	9.59	11.00	Complies
64	5320	9.51	0.15	9.66	11.00	Complies



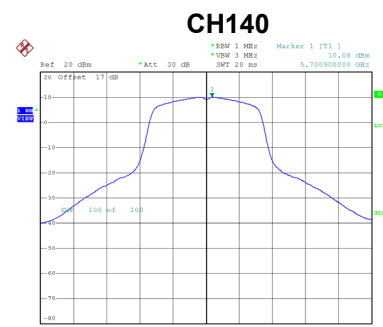
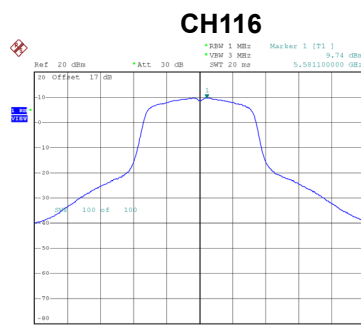
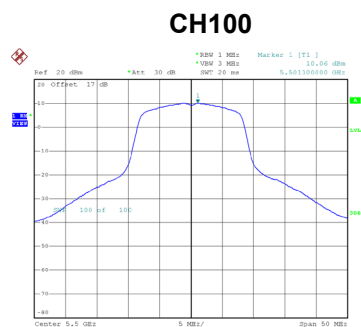
Test Mode	UNII-2A_TX N(HT20) Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	9.54	0.17	9.71	11.00	Complies
60	5300	9.19	0.17	9.36	11.00	Complies
64	5320	9.27	0.17	9.44	11.00	Complies



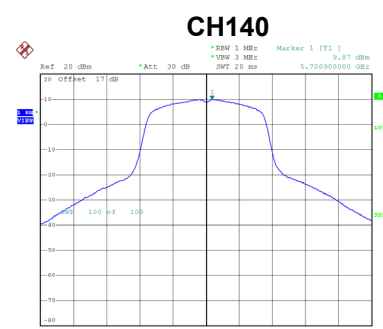
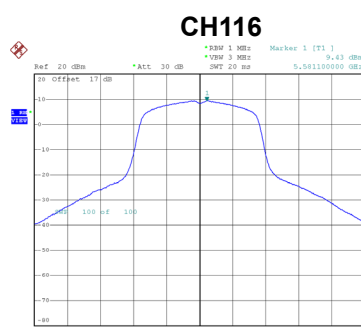
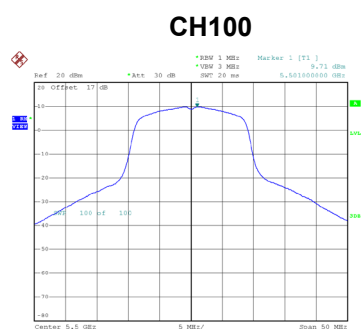
Test Mode	UNII-2C_TX A Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	10.06	0.15	10.21	11.00	Complies
116	5580	9.74	0.15	9.89	11.00	Complies
140	5700	10.08	0.15	10.23	11.00	Complies



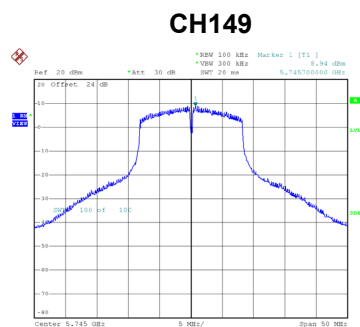
Test Mode	UNII-2C_TX N(HT20) Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	9.71	0.17	9.88	11.00	Complies
116	5580	9.43	0.17	9.60	11.00	Complies
140	5700	9.87	0.17	10.04	11.00	Complies

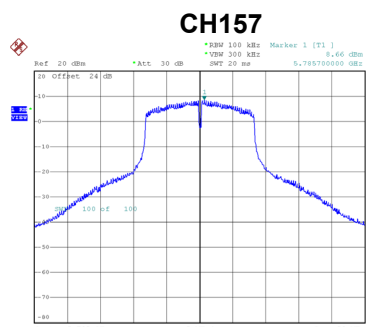


Test Mode UNII-3_TX A Mode

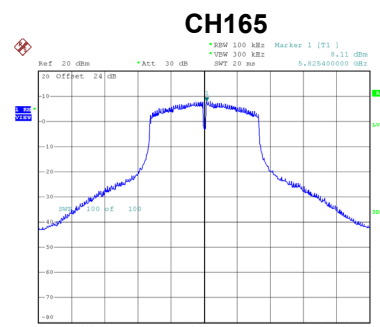
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	8.94	0.15	9.09	30.00	Complies
157	5785	8.66	0.15	8.81	30.00	Complies
165	5825	8.11	0.15	8.26	30.00	Complies



Date: 24.APR.2024 16:38:04



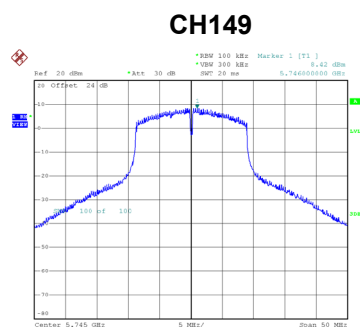
Date: 24.APR.2024 16:39:25



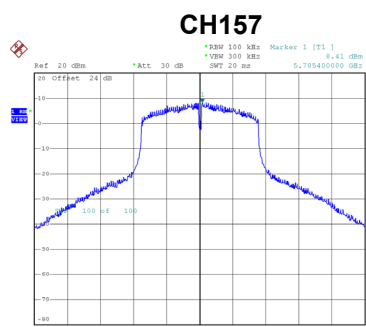
Date: 24.APR.2024 16:40:52

Test Mode UNII-3_TX N(HT20) Mode

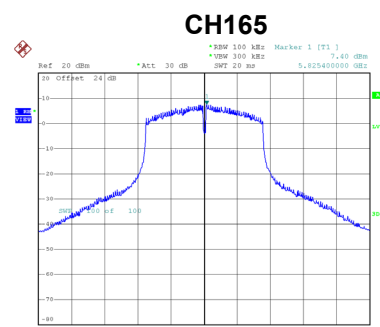
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	8.42	0.17	8.59	30.00	Complies
157	5785	8.41	0.17	8.58	30.00	Complies
165	5825	7.40	0.17	7.57	30.00	Complies



Date: 24.APR.2024 16:57:04



Date: 24.APR.2024 16:58:49



Date: 24.APR.2024 17:02:26

APPENDIX H - FREQUENCY STABILITY

Test Mode	UNII-1
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Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5180.0000
5.75	5180.0220
5	5180.0220
4.25	5180.0224
Maximum Deviation (MHz)	0.0224
Maximum Deviation (ppm)	4.3243

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5180.0000
0	5180.0220
10	5180.0100
20	5180.0008
30	5179.9956
40	5180.0008
45	5180.0056
Maximum Deviation (MHz)	0.0220
Maximum Deviation (ppm)	4.2471

Test Mode	UNII-2A
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Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5260.0000
5.75	5260.0040
5	5260.0036
4.25	5260.0032
Maximum Deviation (MHz)	0.0040
Maximum Deviation (ppm)	0.7605

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5260.0000
0	5260.0224
10	5260.0108
20	5260.0004
30	5259.9956
40	5260.0008
45	5260.0052
Maximum Deviation (MHz)	0.0224
Maximum Deviation (ppm)	4.2586

Test Mode	UNII-2C
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Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5500.0000
5.75	5500.0060
5	5500.0060
4.25	5500.0064
Maximum Deviation (MHz)	0.0064
Maximum Deviation (ppm)	1.1636

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5500.0000
0	5500.0244
10	5500.0116
20	5500.0008
30	5499.9956
40	5500.0008
45	5500.0048
Maximum Deviation (MHz)	0.0244
Maximum Deviation (ppm)	4.4364

Test Mode	UNII-3
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Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5745.0000
5.75	5745.0104
5	5745.0116
4.25	5745.0144
Maximum Deviation (MHz)	0.0144
Maximum Deviation (ppm)	2.5065

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5745.0000
0	5745.0252
10	5745.0108
20	5744.9992
30	5744.9952
40	5745.0008
45	5745.0068
Maximum Deviation (MHz)	0.0252
Maximum Deviation (ppm)	4.3864

End of Test Report