

FCC Radio Test Report

FCC ID: 2APPZ-V67

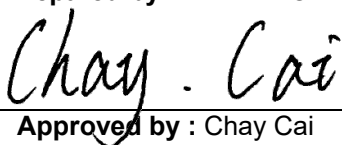
This report concerns: Original Grant

Project No. : 2108C114
Equipment : Smart Video Phone
Brand Name : Fanvil
Test Model : V67
Series Model : N/A
Applicant : Fanvil Technology Co., Ltd
Address : 10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Manufacturer : Fanvil Technology Co., Ltd
Address : 10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Factory : Fanvil Technology Co., Ltd
Address : 10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Date of Receipt : Aug. 13, 2021
Date of Test : Aug. 17, 2021 ~ Dec. 04, 2021
Issued Date : Dec. 17, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG20210816158 for conducted, DG20210816159 for radiated.
Standard(s) : FCC CFR Title 47, Part 15, Subpart E
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 ANSI C63.10-2013

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



Prepared by : Sheldon Ou



Approved by : Chay Cai



TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China

Tel: +86-769-8318-3000

Web: www.newbtl.com

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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, 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** 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.

Table of Contents	Page
REPORT ISSUED HISTORY	5
1 . SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	7
1.2 MEASUREMENT UNCERTAINTY	7
1.3 TEST ENVIRONMENT CONDITIONS	8
2 . GENERAL INFORMATION	9
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 TEST MODES	11
2.3 PARAMETERS OF TEST SOFTWARE	13
2.4 DUTY CYCLE	14
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	16
2.6 SUPPORT UNITS	16
3 . AC POWER LINE CONDUCTED EMISSIONS	17
3.1 LIMIT	17
3.2 TEST PROCEDURE	17
3.3 DEVIATION FROM TEST STANDARD	17
3.4 TEST SETUP	18
3.5 EUT OPERATION CONDITIONS	18
3.6 TEST RESULTS	18
4 . RADIATED EMISSIONS	19
4.1 LIMIT	19
4.2 TEST PROCEDURE	20
4.3 DEVIATION FROM TEST STANDARD	21
4.4 TEST SETUP	21
4.5 EUT OPERATION CONDITIONS	22
4.6 TEST RESULTS - 9 KHZ TO 30 MHZ	22
4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	22
4.8 TEST RESULTS - ABOVE 1000 MHZ	22
5 . BANDWIDTH	23
5.1 LIMIT	23
5.2 TEST PROCEDURE	23
5.3 DEVIATION FROM STANDARD	23
5.4 TEST SETUP	23

Table of Contents	Page
5.5 EUT OPERATION CONDITIONS	23
5.6 TEST RESULTS	23
6 . MAXIMUM OUTPUT POWER	24
6.1 LIMIT	24
6.2 TEST PROCEDURE	24
6.3 DEVIATION FROM STANDARD	24
6.4 TEST SETUP	24
6.5 EUT OPERATION CONDITIONS	24
6.6 TEST RESULTS	24
7 . POWER SPECTRAL DENSITY	25
7.1 LIMIT	25
7.2 TEST PROCEDURE	25
7.3 DEVIATION FROM STANDARD	25
7.4 TEST SETUP	26
7.5 EUT OPERATION CONDITIONS	26
7.6 TEST RESULTS	26
8 . FREQUENCY STABILITY	27
8.1 LIMIT	27
8.2 TEST PROCEDURE	27
8.3 DEVIATION FROM STANDARD	27
8.4 TEST SETUP	27
8.5 EUT OPERATION CONDITIONS	27
8.6 TEST RESULTS	27
9 . MEASUREMENT INSTRUMENTS LIST	28
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	30
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	33
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	38
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	41
APPENDIX E - BANDWIDTH	114
APPENDIX F - MAXIMUM OUTPUT POWER	123
APPENDIX G - POWER SPECTRAL DENSITY	128
APPENDIX H - FREQUENCY STABILITY	133

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 17, 2021

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

Note:

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

1.1 TEST FACILITY

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

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

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

B. Radiated emissions test:

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

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

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

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

C. Other Measurement test:

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

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	23°C	65%	AC 120V/60Hz	Aries Tang
Radiated Emissions-9kHz to 30MHz	25°C	60%	AC 120V/60Hz	Sparrow Liu
Radiated Emissions-30MHz to 1000MHz	22°C	47%	AC 120V/60Hz	Jakyri Wen
Radiated Emissions-Above 1000 MHz	22°C	43%	AC 120V/60Hz	Hayden Chen
Bandwidth	25°C	36%	DC 12V	Longdage Feng
Maximum Output Power	24°C	47%	DC 12V	Jesse Wang
Power Spectral Density	25°C	36%	DC 12V	Longdage Feng
Frequency Stability	Normal & Extreme	36%	Normal & Extreme	Longdage Feng

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Video Phone
Brand Name	Fanvil
Test Model	V67
Series Model	N/A
Model Difference(s)	N/A
Power Source	1# DC voltage supplied from AC adapter. Model: F18L16-120150SPAU 2# Supplied from PoE.
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.6A O/P: 12.0V $\overline{=}$ 1.5A 2# DC 48V
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps IEEE 802.11ac: up to 433.3 Mbps
Maximum Output Power UNII-1	IEEE 802.11ac(VHT40): 17.75 dBm (0.0596 W)
Maximum Output Power UNII-3	IEEE 802.11ac(VHT40): 17.71 dBm (0.0590 W)

Note:

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

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

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

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	Dongguan YiJia Electronics Communication Technology Co.,Ltd.	YJL01.106.020. 301A	FPC	IPEX	3.1

Note: The antenna gain is provided by the manufacturer.

2.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 13	TX AC(VHT40) Mode Channel 46 (UNII-1)

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 13	TX AC(VHT40) Mode Channel 46 (UNII-1)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX AC(VHT40) Mode Channel 46 (UNII-1)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Maximum Output Power 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 N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Other Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Note:

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AC(VHT40) Mode Channel 46 (UNII-1) is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) The measurements for Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80) mode, only the worst cases are documented for other test items.
- (5) For radiated emission test, every axis (X, Y, Z) are verified. The test results shown in the following sections represent the worst case emissions.

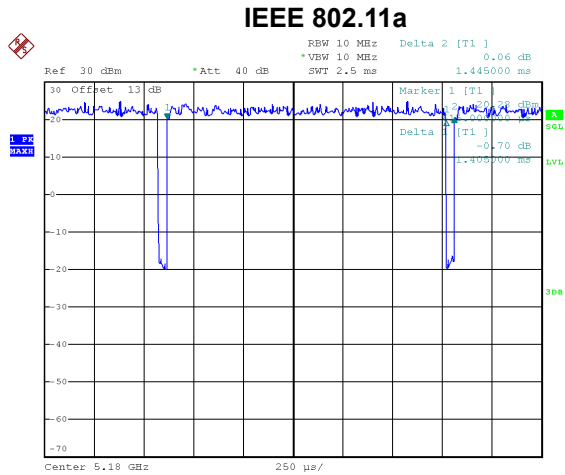
2.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software Version	ADB		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	13	16	16
IEEE 802.11n(HT20)	14	16	17
IEEE 802.11ac(VHT20)	14	16	17
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	12	16	
IEEE 802.11ac(VHT40)	12	16	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	10		

UNII-3			
Test Software Version	ADB		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	16	16	17
IEEE 802.11n(HT20)	16	17	17
IEEE 802.11ac(VHT20)	16	17	17
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	17	17	
IEEE 802.11ac(VHT40)	16	17	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	16		

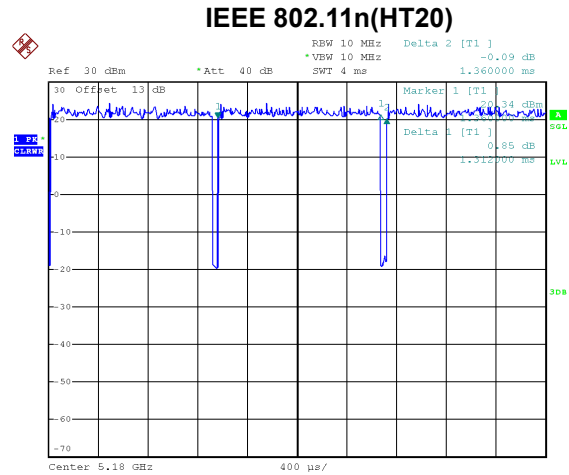
2.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
 If duty cycle is $< 98\%$, duty factor shall be considered.
 The output power = measured power + duty factor.
 The power spectral density = measured power spectral density + duty factor.



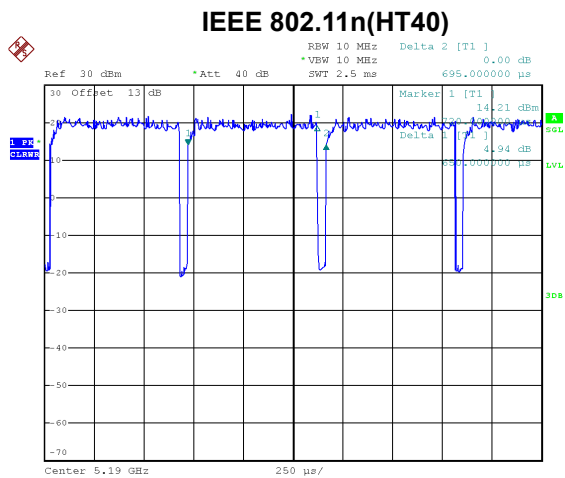
Date: 11.NOV.2021 15:03:47

Duty cycle = $1.405 \text{ ms} / 1.445 \text{ ms} = 97.23\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.12$



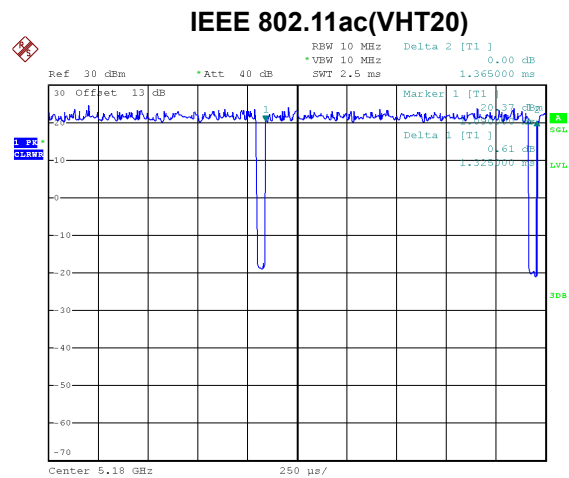
Date: 11.NOV.2021 15:04:33

Duty cycle = $1.312 \text{ ms} / 1.360 \text{ ms} = 96.47\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.16$



Date: 11.NOV.2021 15:07:32

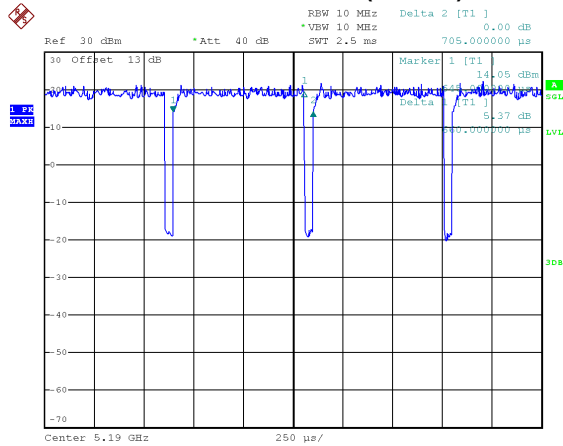
Duty cycle = $0.650 \text{ ms} / 0.695 \text{ ms} = 93.53\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.29$



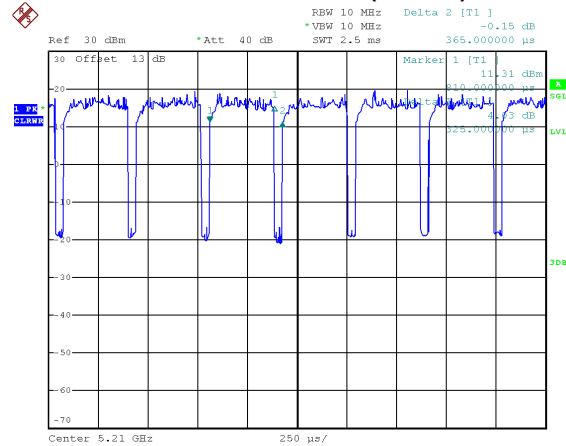
Date: 11.NOV.2021 15:08:51

Duty cycle = $1.325 \text{ ms} / 1.365 \text{ ms} = 97.07\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.13$

IEEE 802.11ac(VHT40)



IEEE 802.11ac(VHT80)



Date: 11.NOV.2021 15:11:23

Duty cycle = 0.660 ms / 0.705 ms = 93.62%
 Duty Factor = 10 log(1 / Duty cycle) = 0.29

Date: 11.NOV.2021 15:12:19

Duty cycle = 0.325 ms / 0.365 ms = 89.04%
 Duty Factor = 10 log(1 / Duty cycle) = 0.50

NOTE:

For IEEE 802.11a:

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

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 762 Hz (Duty cycle < 98%).

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1538 Hz (Duty cycle < 98%).

For IEEE 802.11ac(VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 755 Hz (Duty cycle < 98%).

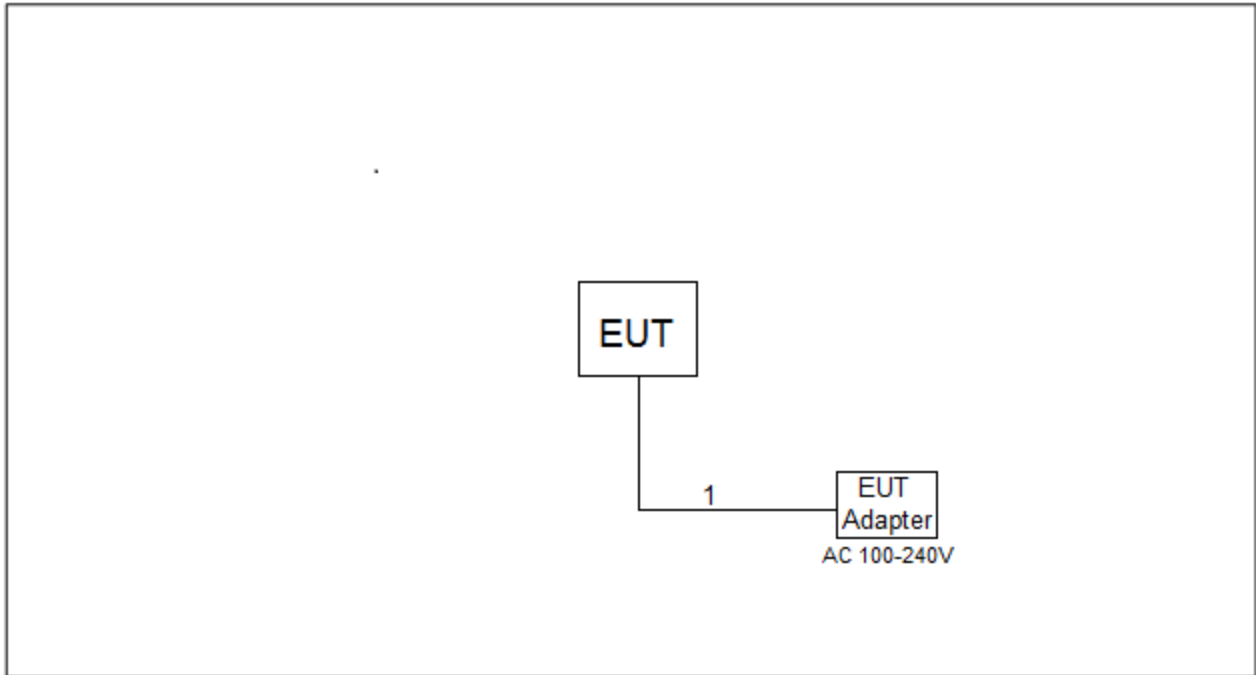
For IEEE 802.11ac(VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1515 Hz (Duty cycle < 98%).

For IEEE 802.11ac(VHT80):

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

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 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. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

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

NOTE:

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

3.2 TEST PROCEDURE

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

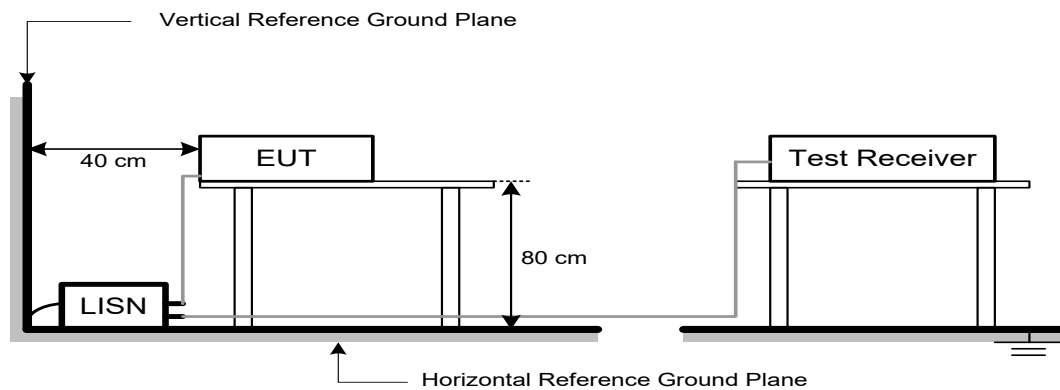
The following table is the setting of the receiver:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

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

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

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

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

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

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

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

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

NOTE:

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

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

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.2 TEST PROCEDURE

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

The following table is the setting of the receiver:

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

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

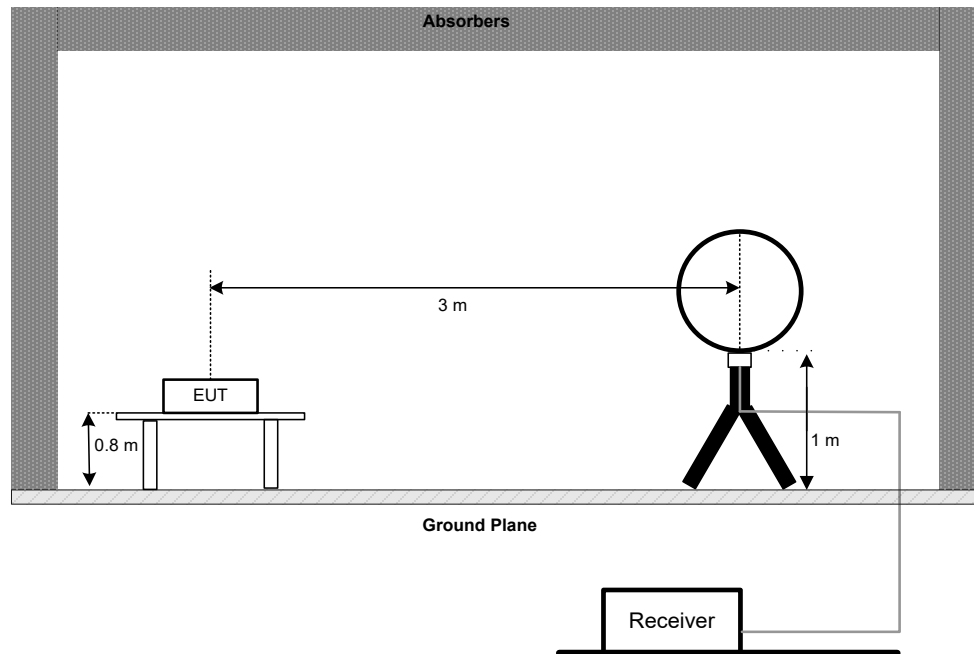
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

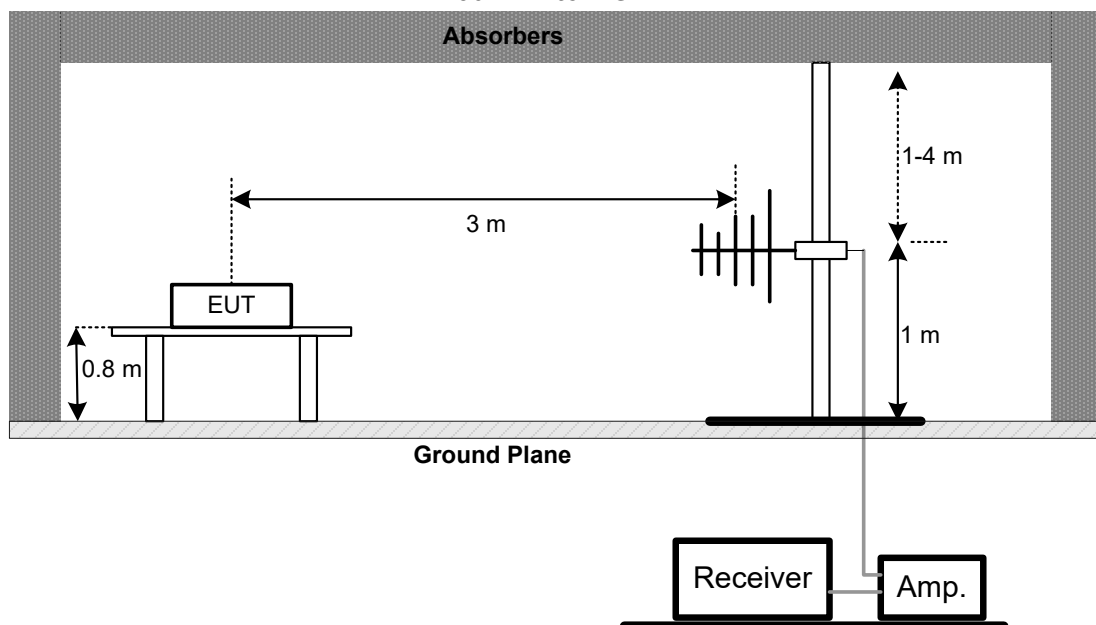
No deviation.

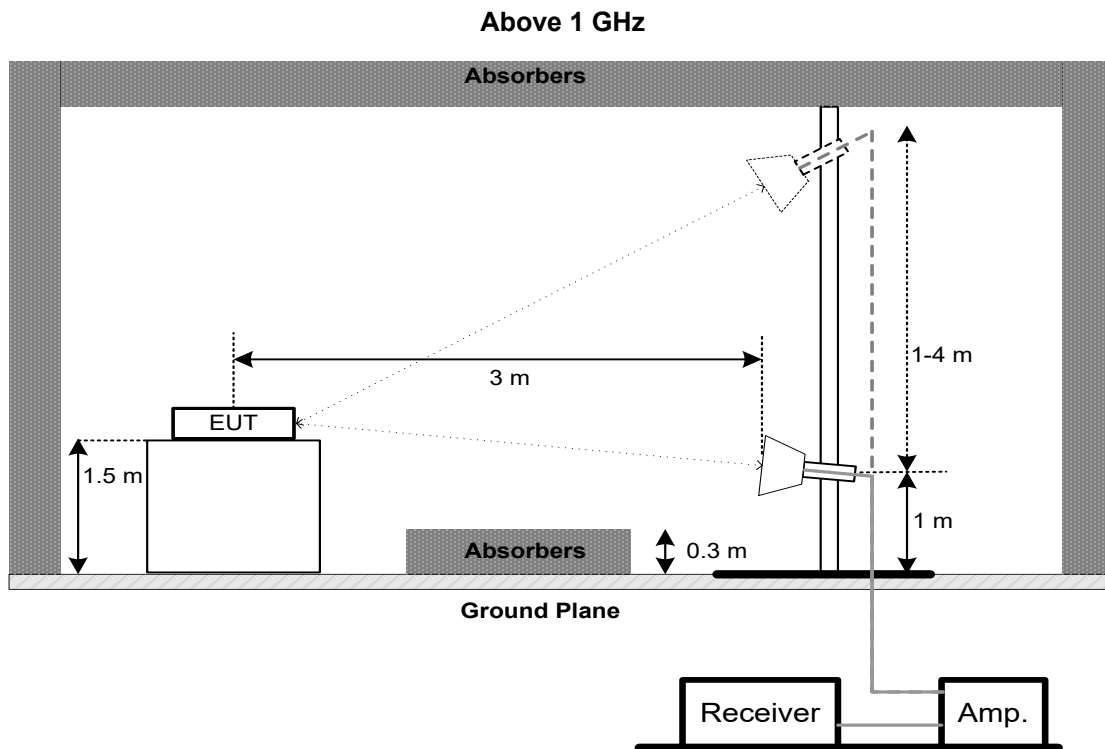
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

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

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH

5.1 LIMIT

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

5.2 TEST PROCEDURE

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

b. Spectrum Setting:

For UNII-1:

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:

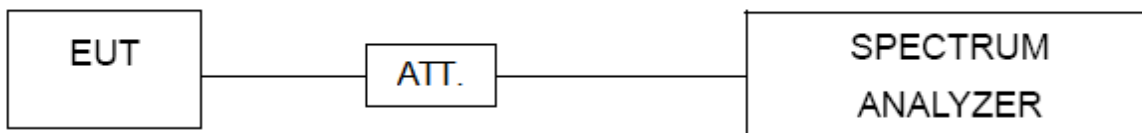
Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

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

Note:

- a. 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.

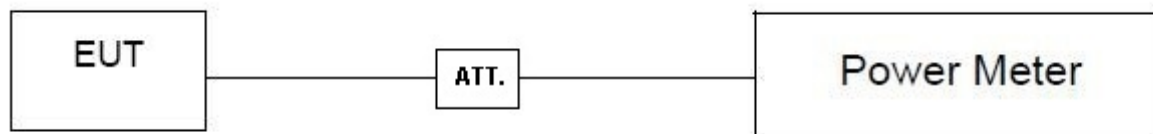
6.2 TEST PROCEDURE

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

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY

7.1 LIMIT

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

7.2 TEST PROCEDURE

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

b. Spectrum Setting:

For UNII-1:

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

For UNII-3:

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

Note:

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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. FREQUENCY STABILITY

8.1 LIMIT

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

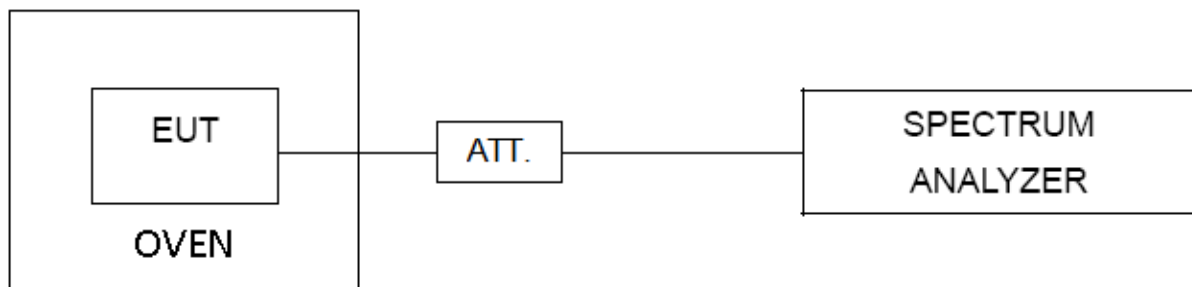
Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2022
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 09, 2022
7	643 Shield Room	ETS	6*4*3m	N/A	N/A

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

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 21, 2022
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Feb. 28, 2022
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 16, 2022
9	Cable	N/A	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 30, 2022
11	Band Reject Filter	Micro-Tronics	BRC50703-01	7	Feb. 27, 2022
12	Band Reject Filter	Micro-Tronics	BRC50705-01	10	Feb. 27, 2022
13	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
14	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Bandwidth & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
4	RF Cable	Tongkaichuan	N/A	N/A	N/A

Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Precision Oven Tester	CEPREI	CEEC-M64T-40	15-008	Feb. 27, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
4	RF Cable	Tongkaichuan	N/A	N/A	N/A
5	DC Block	Mini	N/A	N/A	N/A

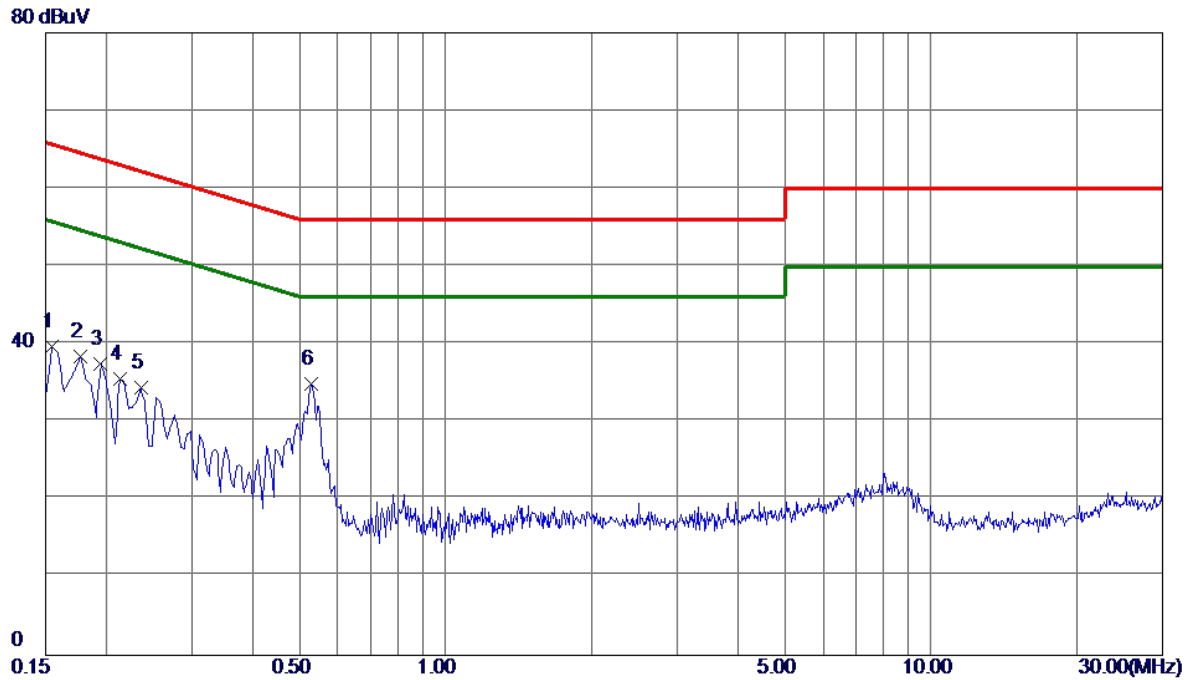
Remark: "N/A" denotes no model name, serial no. or calibration specified.

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

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

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Phase	Line
-----------	---------------------------------------	-------	------

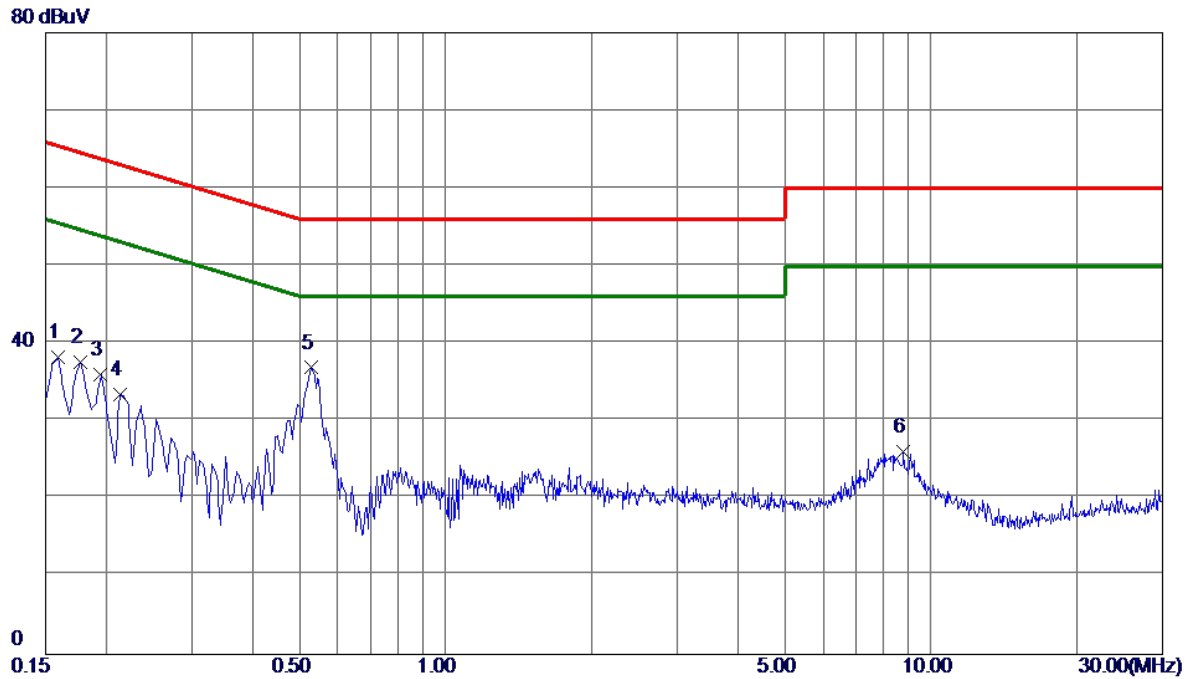


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	29.94	9.78	39.72	65.75	-26.03	Peak	
2	0.1770	28.58	9.80	38.38	64.63	-26.25	Peak	
3	0.1949	27.56	9.81	37.37	63.83	-26.46	Peak	
4	0.2130	25.77	9.82	35.59	63.09	-27.50	Peak	
5	0.2355	24.63	9.82	34.45	62.25	-27.80	Peak	
6 *	0.5280	24.94	9.87	34.81	56.00	-21.19	Peak	

REMARKS:

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

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Phase	Neutral
-----------	---------------------------------------	-------	---------



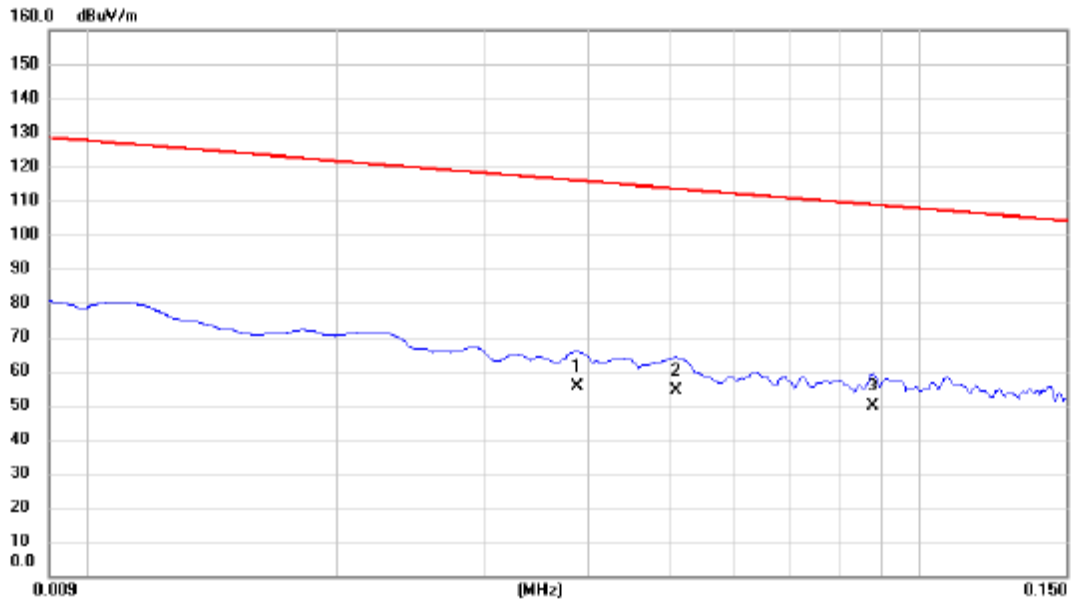
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	28.39	9.83	38.22	65.52	-27.30	Peak	
2	0.1770	27.78	9.84	37.62	64.63	-27.01	Peak	
3	0.1949	26.20	9.85	36.05	63.83	-27.78	Peak	
4	0.2130	23.66	9.85	33.51	63.09	-29.58	Peak	
5 *	0.5280	26.93	9.95	36.88	56.00	-19.12	Peak	
6	8.7765	15.58	10.46	26.04	60.00	-33.96	Peak	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Polarization	Ant 0°
-----------	---------------------------------------	--------------	--------

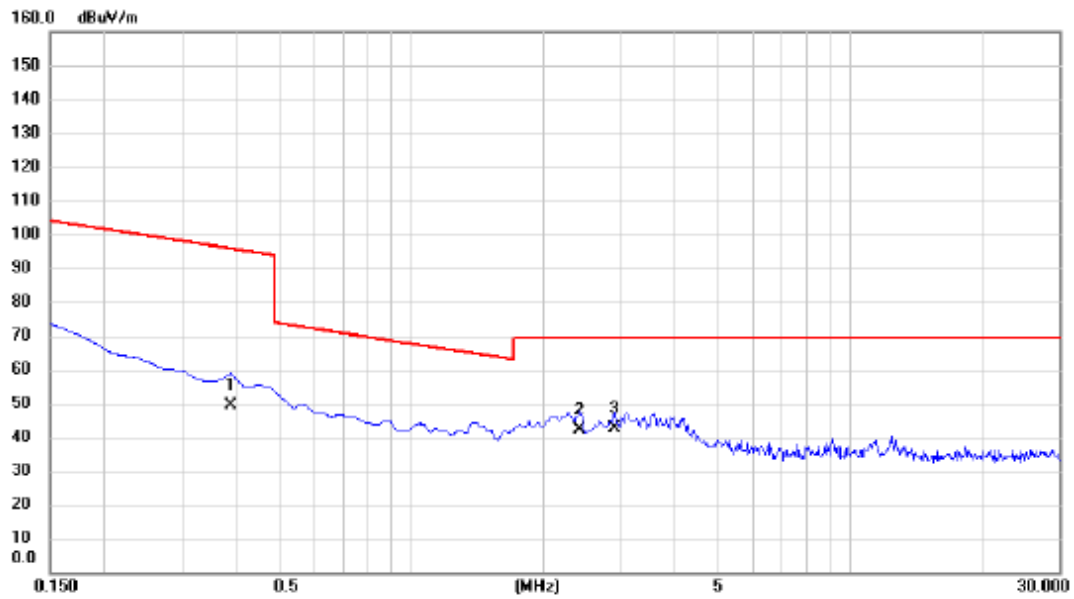


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1		0.0388	41.36	13.98	55.34	115.83	-60.49	AVG		
2		0.0510	40.58	13.72	54.30	113.45	-59.15	AVG		
3	*	0.0878	35.96	13.77	49.73	108.73	-59.00	AVG		

REMARKS:

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

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Polarization	Ant 0°
-----------	---------------------------------------	--------------	--------

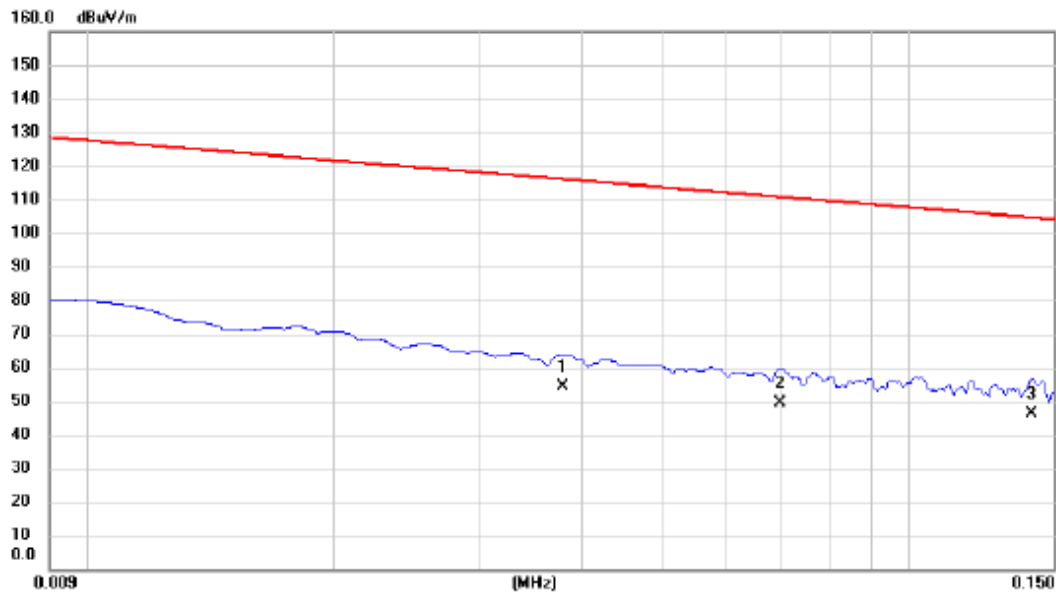


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		0.3887	35.68	13.65	49.33	95.81	-46.48	AVG			
2		2.4186	30.24	12.13	42.37	69.54	-27.17	QP			
3	*	2.8961	30.69	11.98	42.67	69.54	-26.87	QP			

REMARKS:

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

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Polarization	Ant 90°
-----------	---------------------------------------	--------------	---------

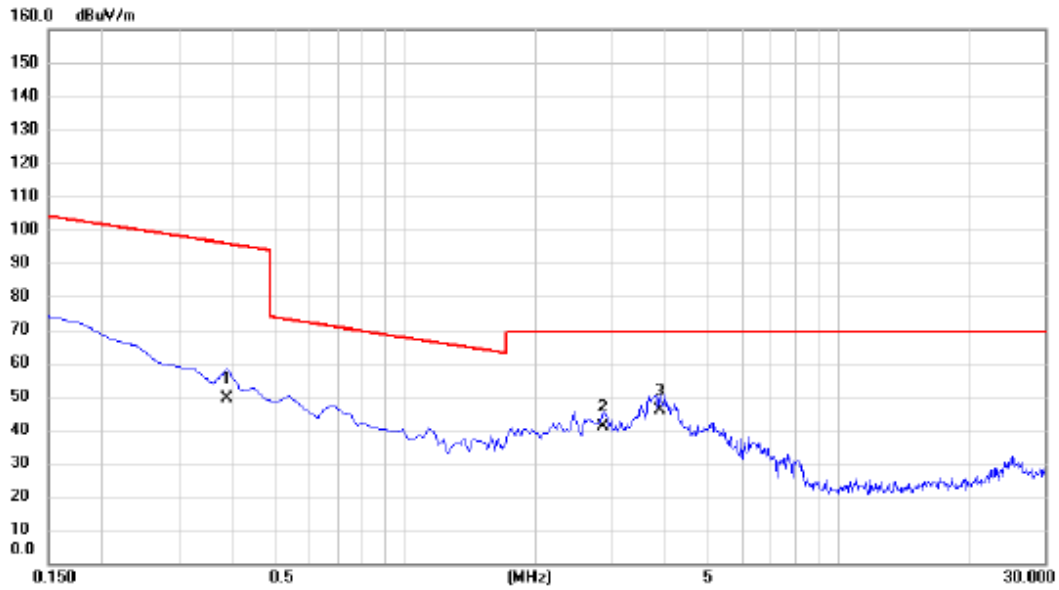


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.0380	40.26	14.00	54.26	116.01	-61.75	AVG			
2	0.0697	35.74	13.73	49.47	110.74	-61.27	AVG			
3 *	0.1412	32.59	13.78	46.37	104.61	-58.24	AVG			

REMARKS:

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

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Polarization	Ant 90°
-----------	---------------------------------------	--------------	---------



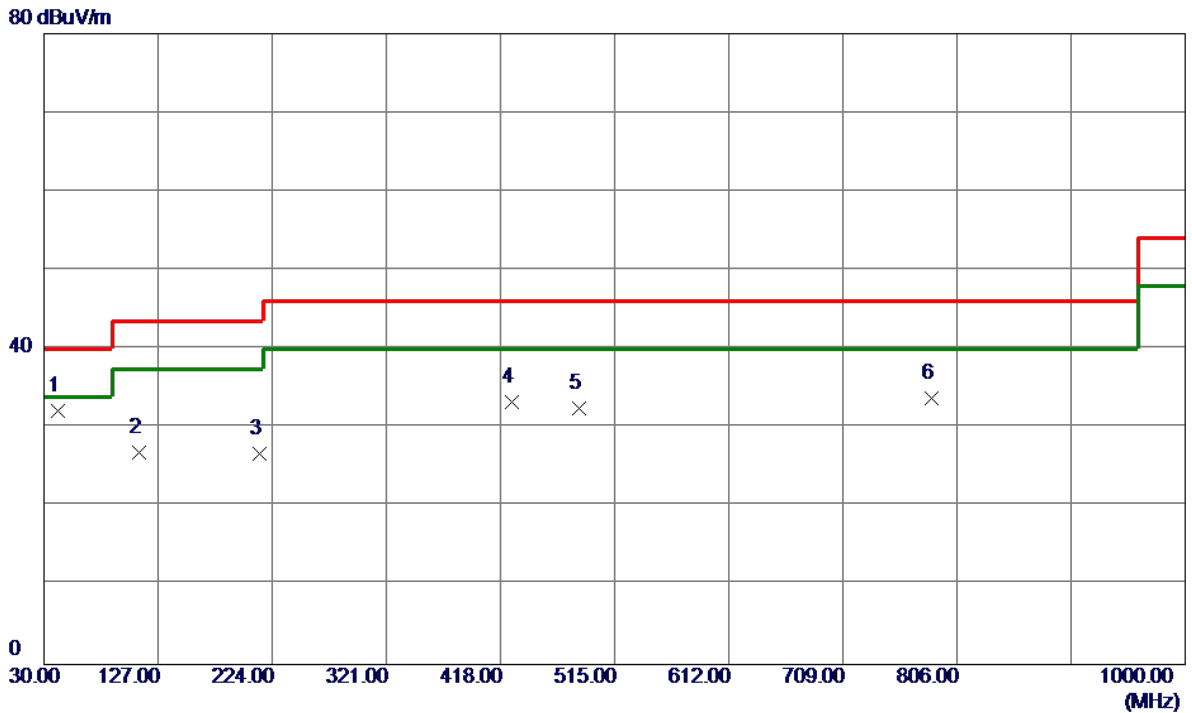
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.3888	35.67	13.65	49.32	95.81	-46.49	AVG			
2	2.8664	28.93	11.99	40.92	69.54	-28.62	QP			
3 *	3.8813	33.64	12.03	45.67	69.54	-23.87	QP			

REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Polarization	Vertical
-----------	---------------------------------------	--------------	----------

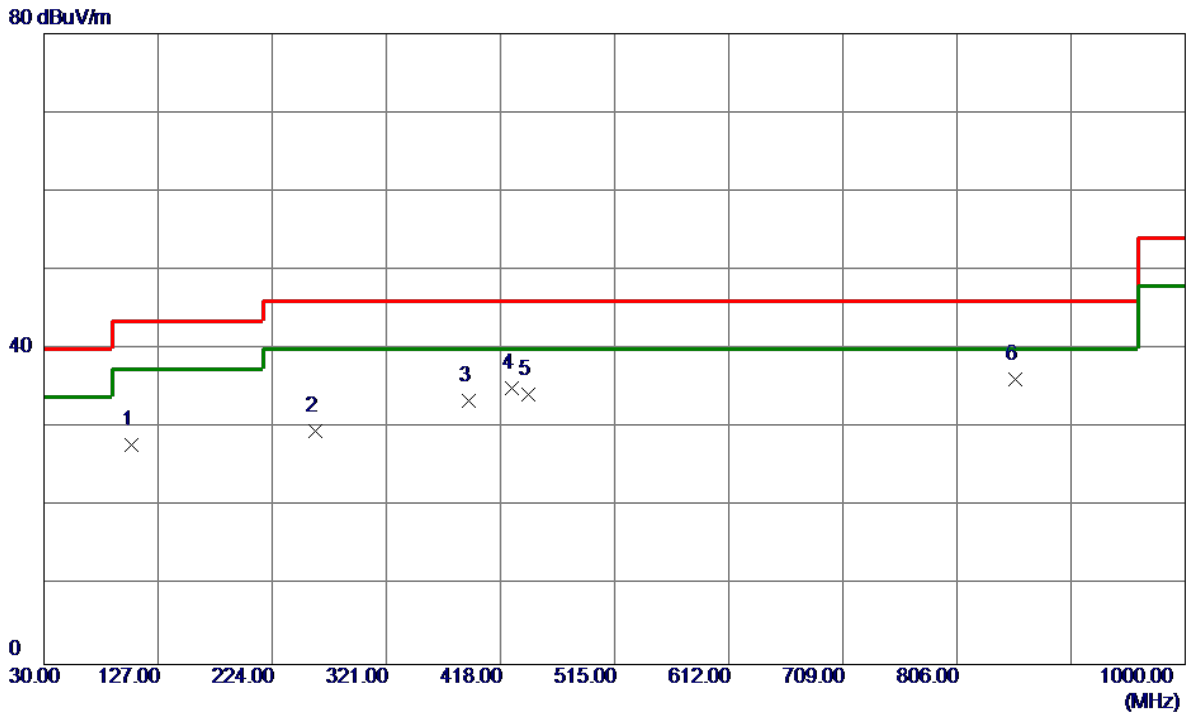


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	41.6400	46.15	-13.99	32.16	40.00	-7.84	Peak	
2	110.5100	41.89	-14.99	26.90	43.50	-16.60	Peak	
3	213.3300	41.75	-15.09	26.66	43.50	-16.84	Peak	
4	427.7000	41.30	-8.02	33.28	46.00	-12.72	Peak	
5	484.9300	39.32	-6.80	32.52	46.00	-13.48	Peak	
6	784.6599	34.86	-1.07	33.79	46.00	-12.21	Peak	

REMARKS:

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

Test Mode	TX AC(VHT40) Mode Channel 46 (UNII-1)	Polarization	Horizontal
-----------	---------------------------------------	--------------	------------



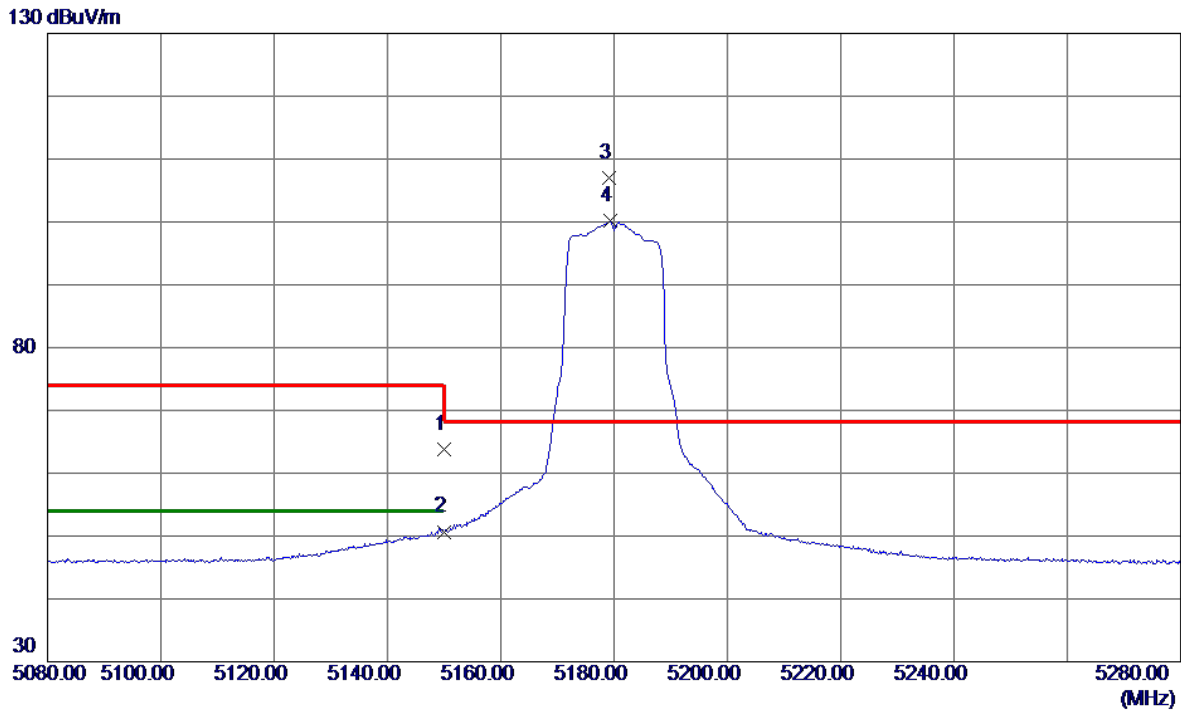
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	104.6900	43.70	-15.84	27.86	43.50	-15.64	Peak	
2	260.8599	42.08	-12.53	29.55	46.00	-16.45	Peak	
3	390.8400	42.44	-8.99	33.45	46.00	-12.55	Peak	
4	427.7000	43.02	-8.02	35.00	46.00	-11.00	Peak	
5	441.2800	41.88	-7.64	34.24	46.00	-11.76	Peak	
6 *	855.4700	36.71	-0.54	36.17	46.00	-9.83	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
-----------	---------------------------	--------------	----------

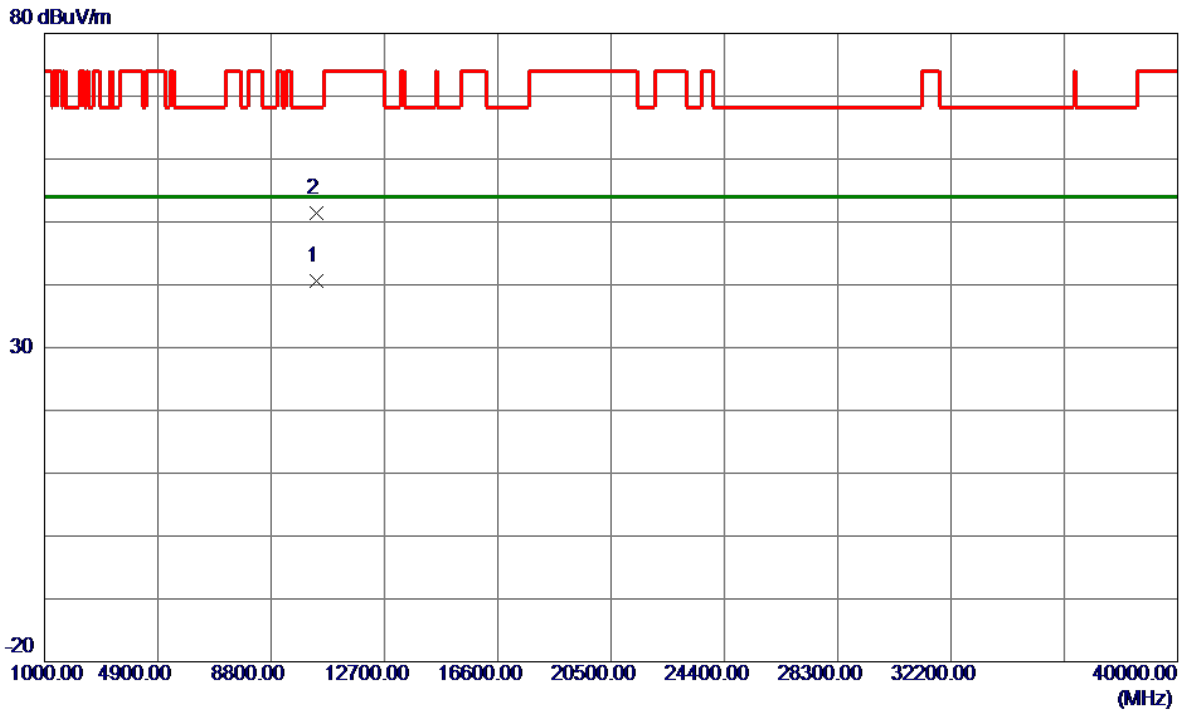


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	47.61	16.28	63.89	74.00	-10.11	Peak	
2	5150.0000	34.42	16.28	50.70	54.00	-3.30	AVG	
3 *	5179.2000	90.71	16.32	107.03	68.20	38.83	Peak	No Limit
4	5179.3000	83.82	16.32	100.14	999.00	-898.86	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 5180 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

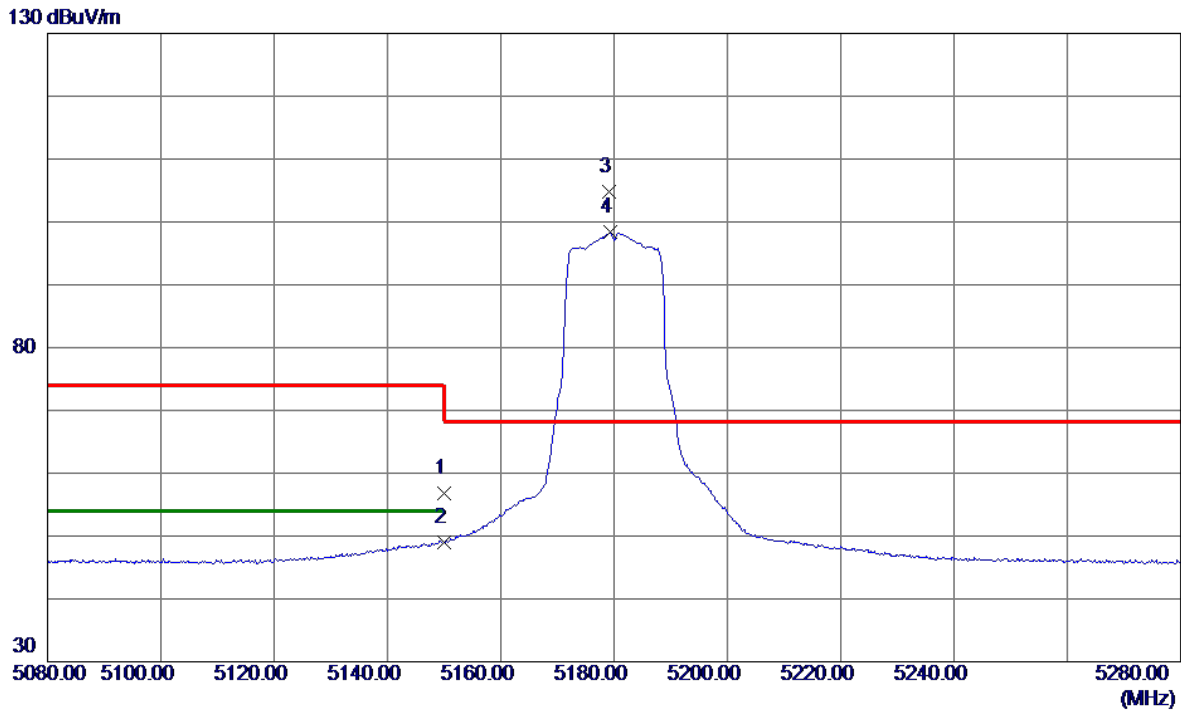


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.7800	27.11	13.46	40.57	54.00	-13.43	AVG	
2	10360.9800	37.90	13.46	51.36	68.20	-16.84	Peak	

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	Horizontal
-----------	---------------------------	--------------	------------

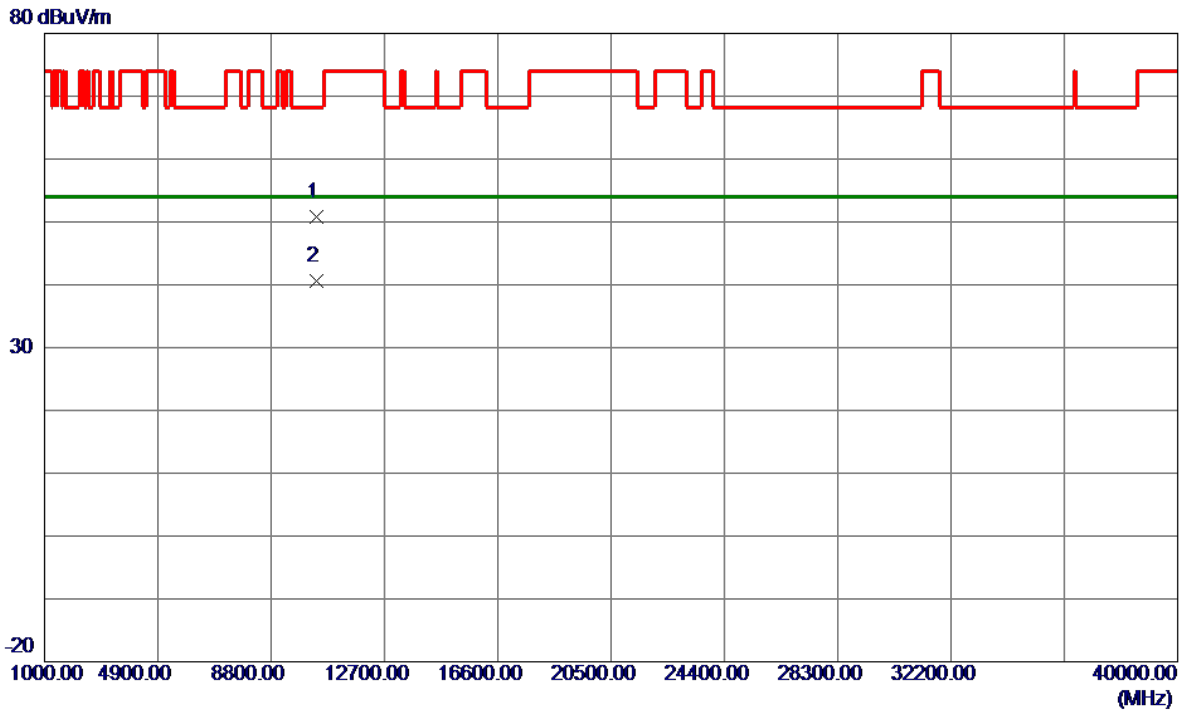


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	40.60	16.28	56.88	74.00	-17.12	Peak	
2	5150.0000	32.70	16.28	48.98	54.00	-5.02	AVG	
3 *	5179.1000	88.54	16.32	104.86	68.20	36.66	Peak	No Limit
4	5179.3000	82.01	16.32	98.33	999.00	-900.67	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 5180 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

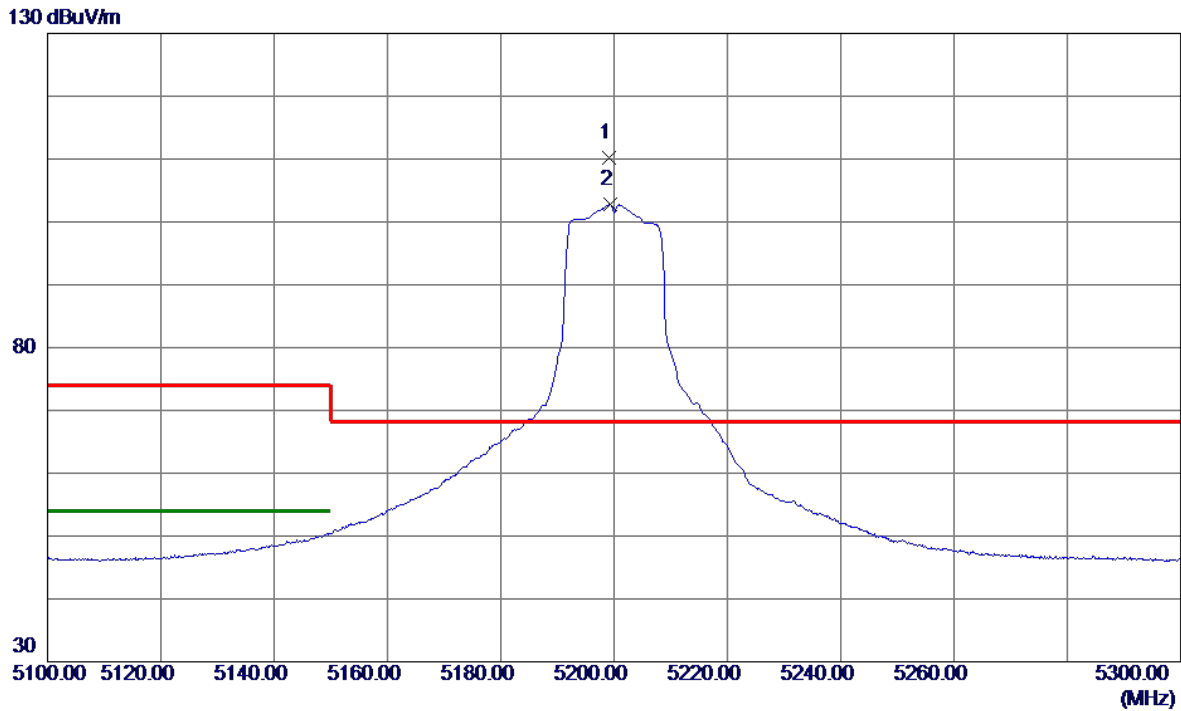


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10361.5500	37.31	13.46	50.77	68.20	-17.43	Peak	
2 *	10365.7800	27.11	13.46	40.57	54.00	-13.43	AVG	

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

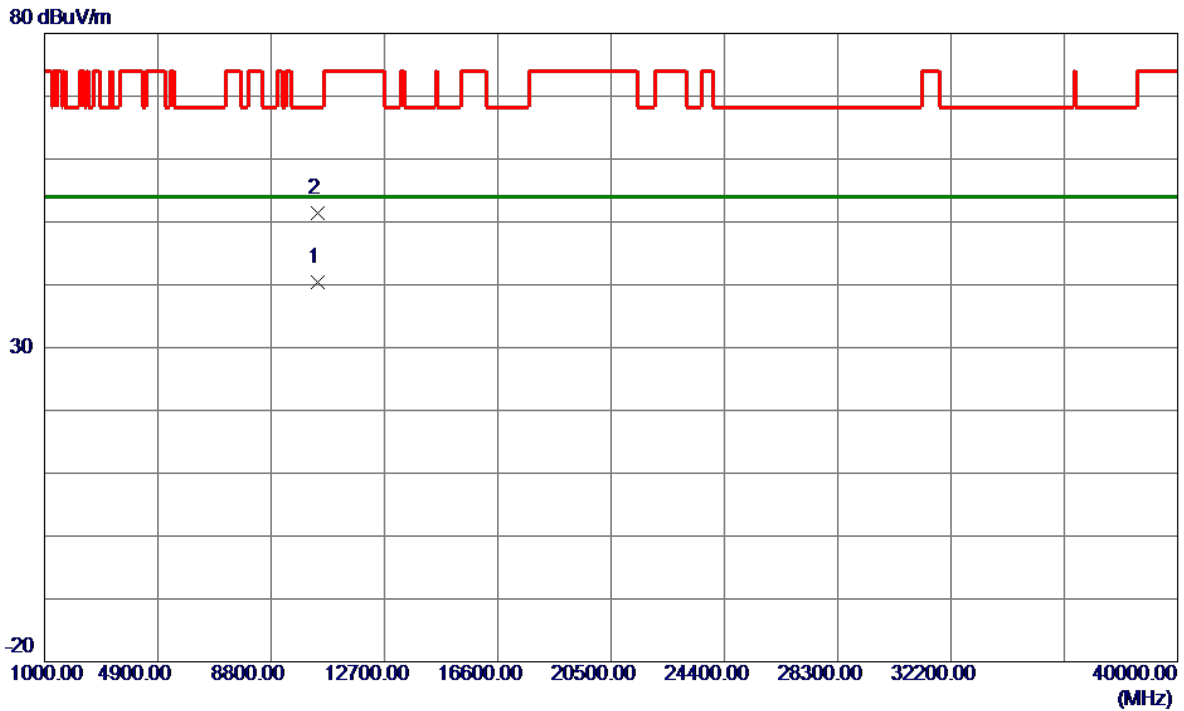


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5199.2000	93.90	16.34	110.24	68.20	42.04	Peak	No Limit
2	5199.3000	86.49	16.34	102.83	999.00	-896.17	AVG	No Limit

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
-----------	---------------------------	--------------	----------

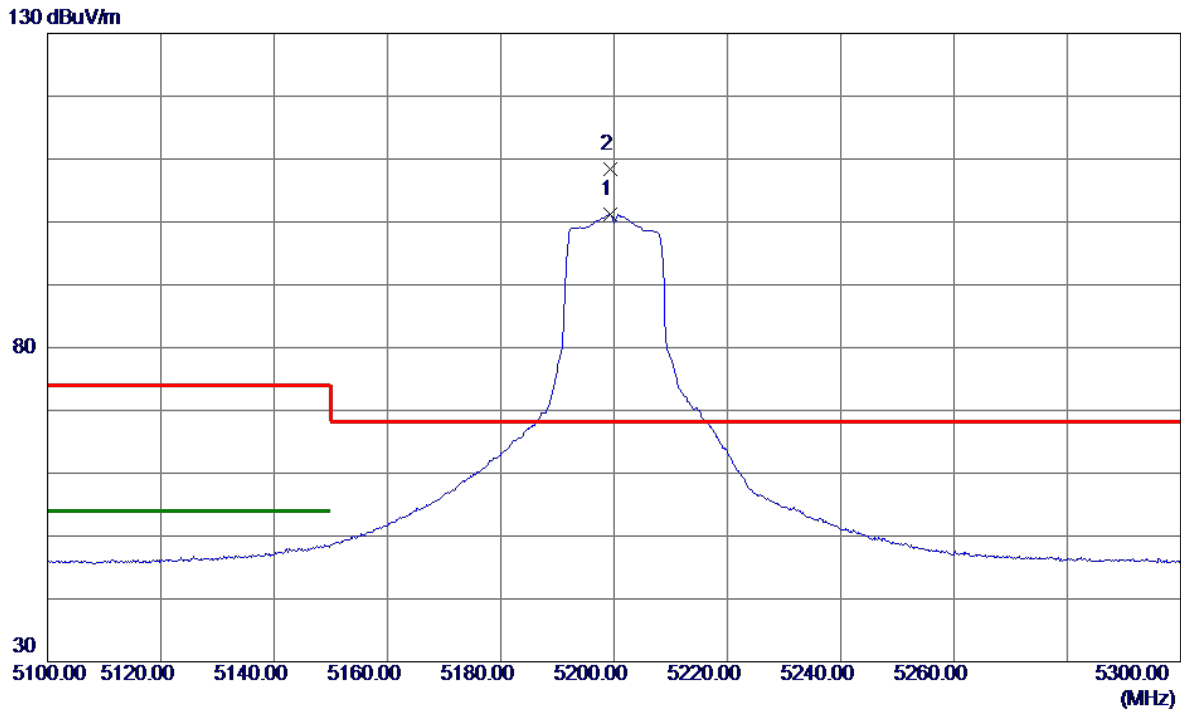


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10397.2699	26.89	13.49	40.38	54.00	-13.62	AVG	
2	10407.4900	37.99	13.50	51.49	68.20	-16.71	Peak	

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	Horizontal
-----------	---------------------------	--------------	------------

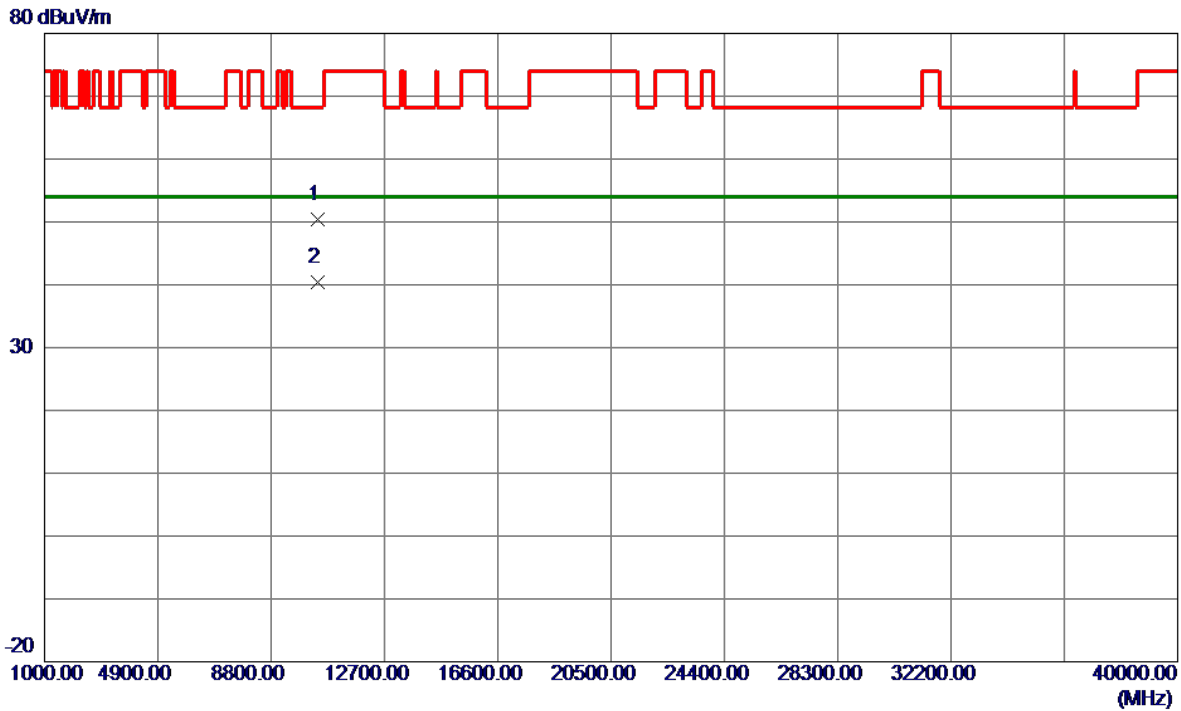


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5199.3000	84.94	16.34	101.28	999.00	-897.72	AVG	No Limit
2 *	5199.4000	91.98	16.34	108.32	68.20	40.12	Peak	No Limit

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

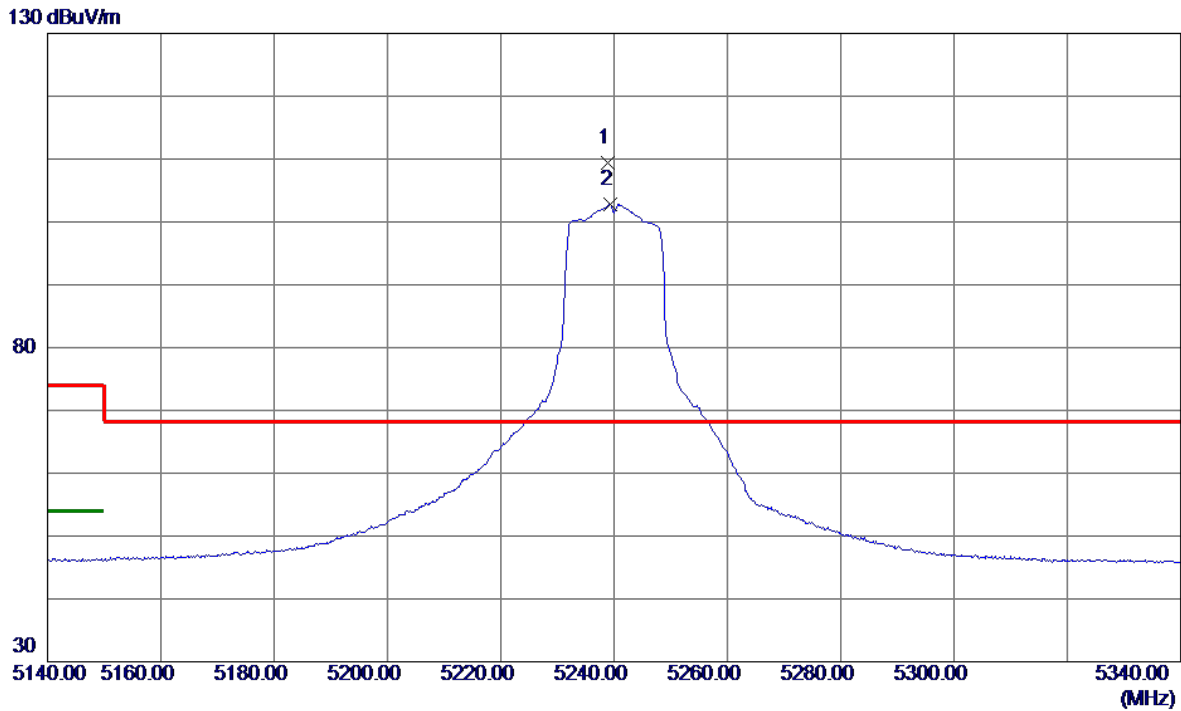


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10391.3400	36.92	13.48	50.40	68.20	-17.80	Peak	
2 *	10393.1500	26.98	13.49	40.47	54.00	-13.53	AVG	

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

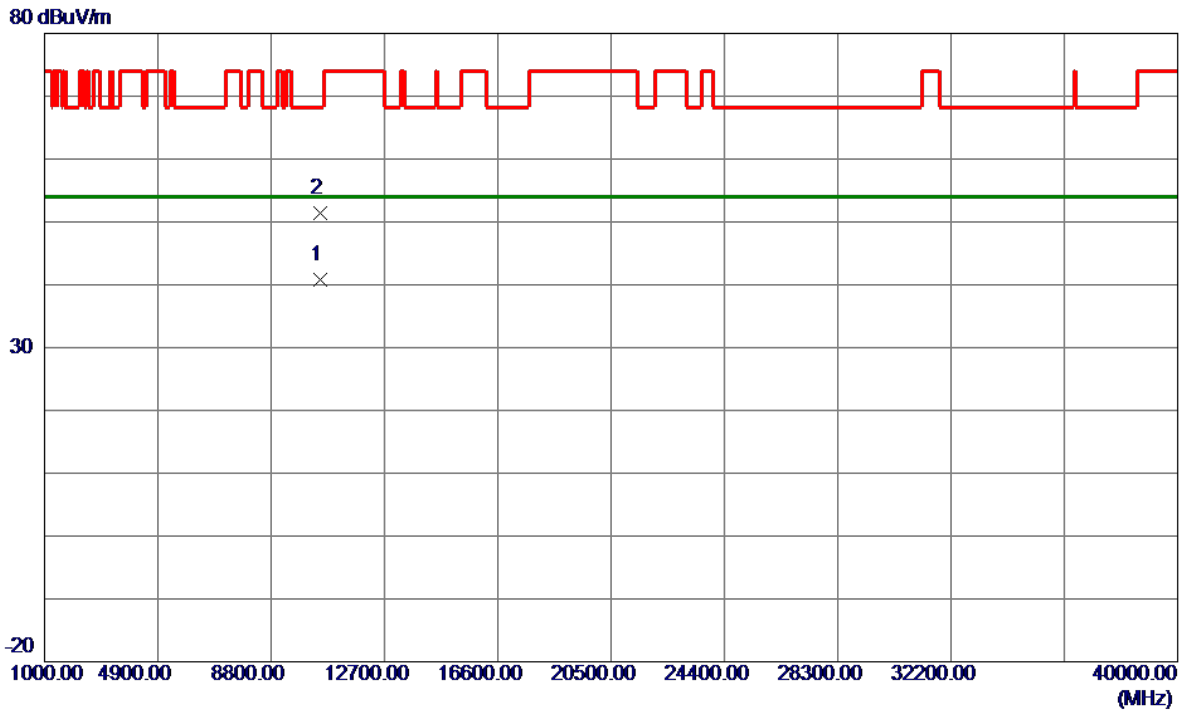


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5238.8000	92.99	16.38	109.37	68.20	41.17	Peak	No Limit
2	5239.3000	86.47	16.38	102.85	999.00	-896.15	AVG	No Limit

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

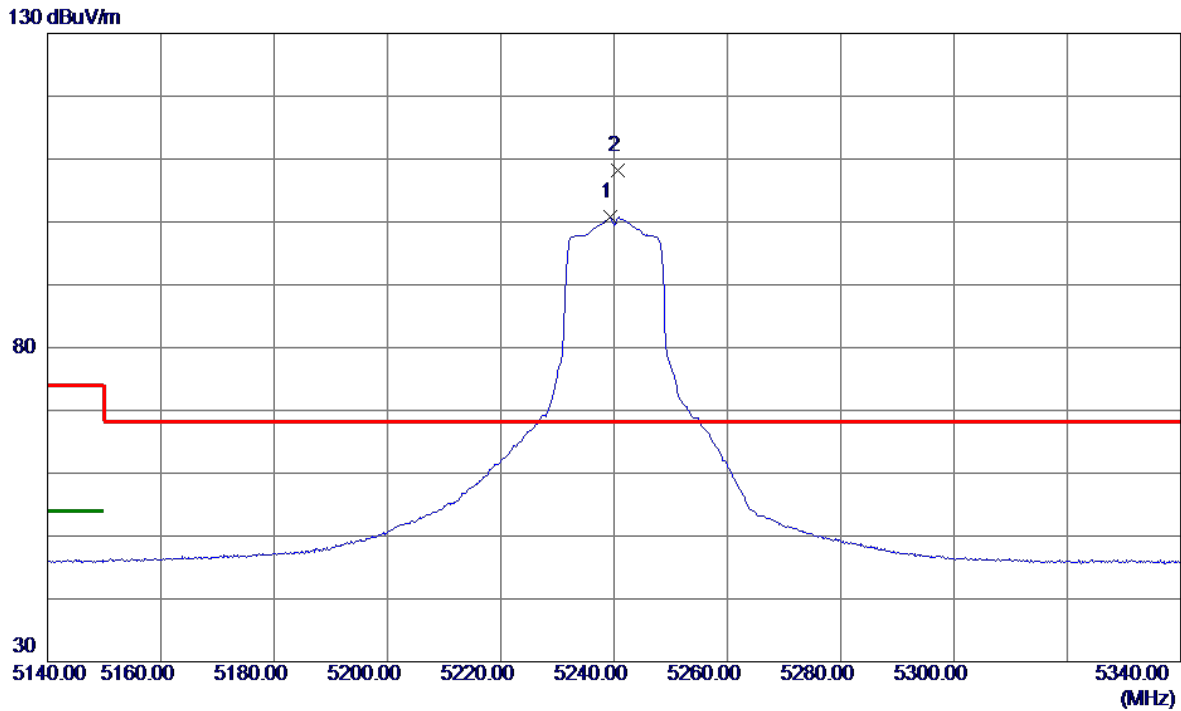


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10487.7100	27.33	13.56	40.89	54.00	-13.11	AVG	
2	10489.0599	37.87	13.57	51.44	68.20	-16.76	Peak	

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	Horizontal
-----------	---------------------------	--------------	------------

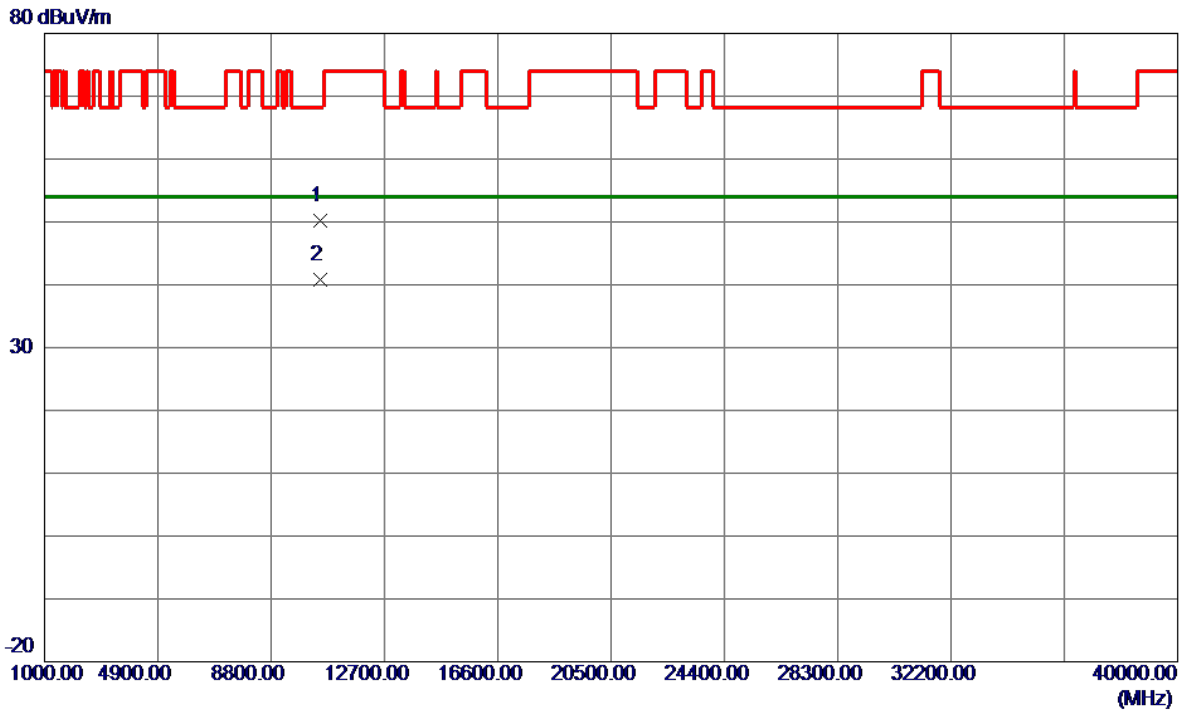


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5239.3000	84.37	16.38	100.75	999.00	-898.25	AVG	No Limit
2 *	5240.6000	91.87	16.38	108.25	68.20	40.05	Peak	No Limit

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------

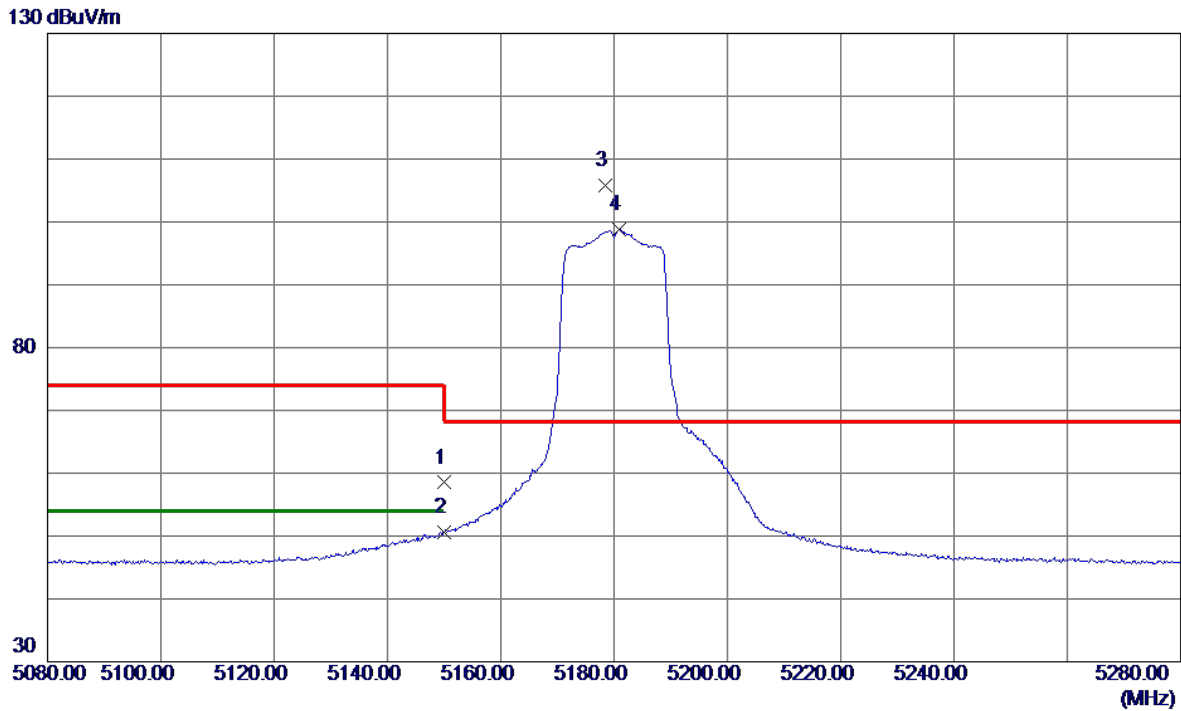


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10470.6200	36.64	13.55	50.19	68.20	-18.01	Peak	
2 *	10489.3900	27.19	13.57	40.76	54.00	-13.24	AVG	

REMARKS:

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

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

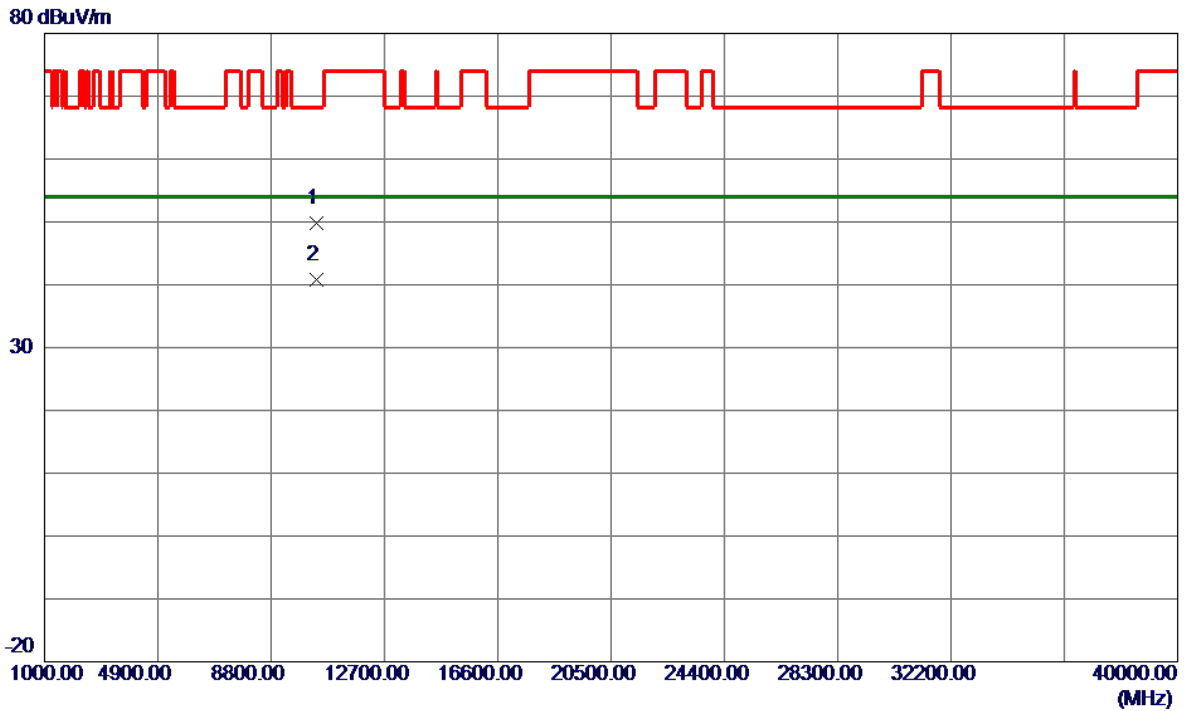


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.22	16.28	58.50	74.00	-15.50	Peak	
2	5150.0000	34.39	16.28	50.67	54.00	-3.33	AVG	
3 *	5178.5000	89.53	16.31	105.84	68.20	37.64	Peak	No Limit
4	5180.8000	82.40	16.32	98.72	999.00	-900.28	AVG	No Limit

REMARKS:

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

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

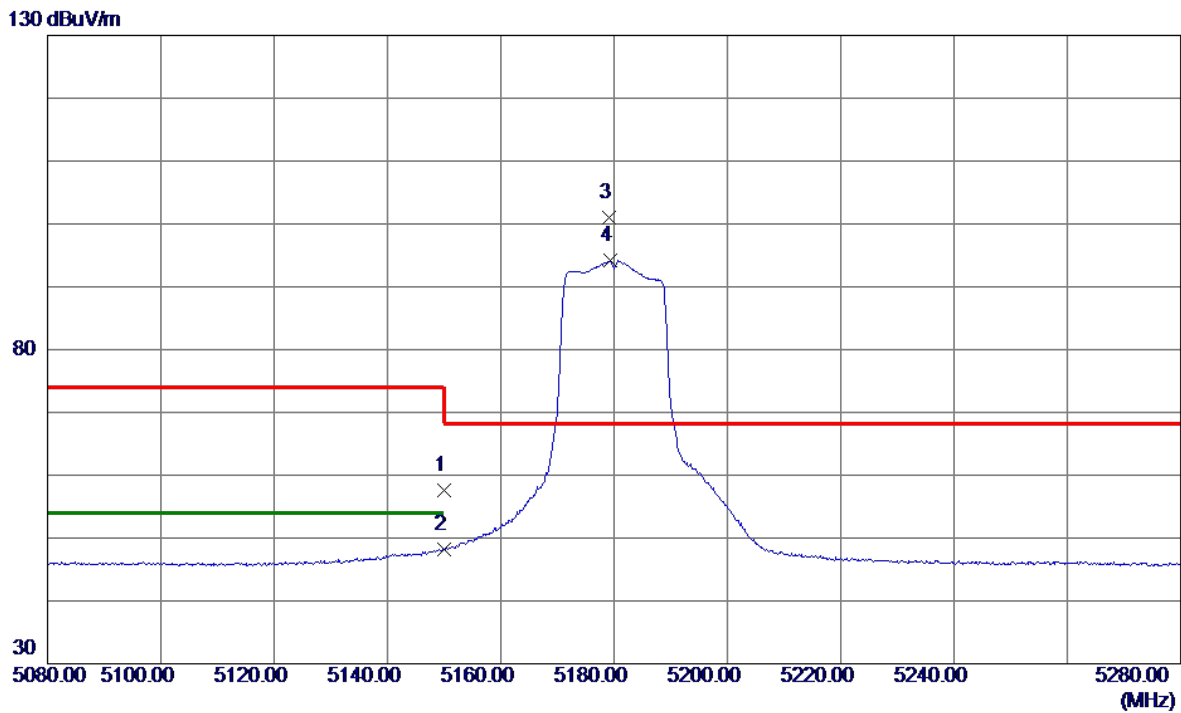


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10359.7500	36.38	13.46	49.84	68.20	-18.36	Peak	
2 *	10367.2600	27.28	13.46	40.74	54.00	-13.26	AVG	

REMARKS:

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

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

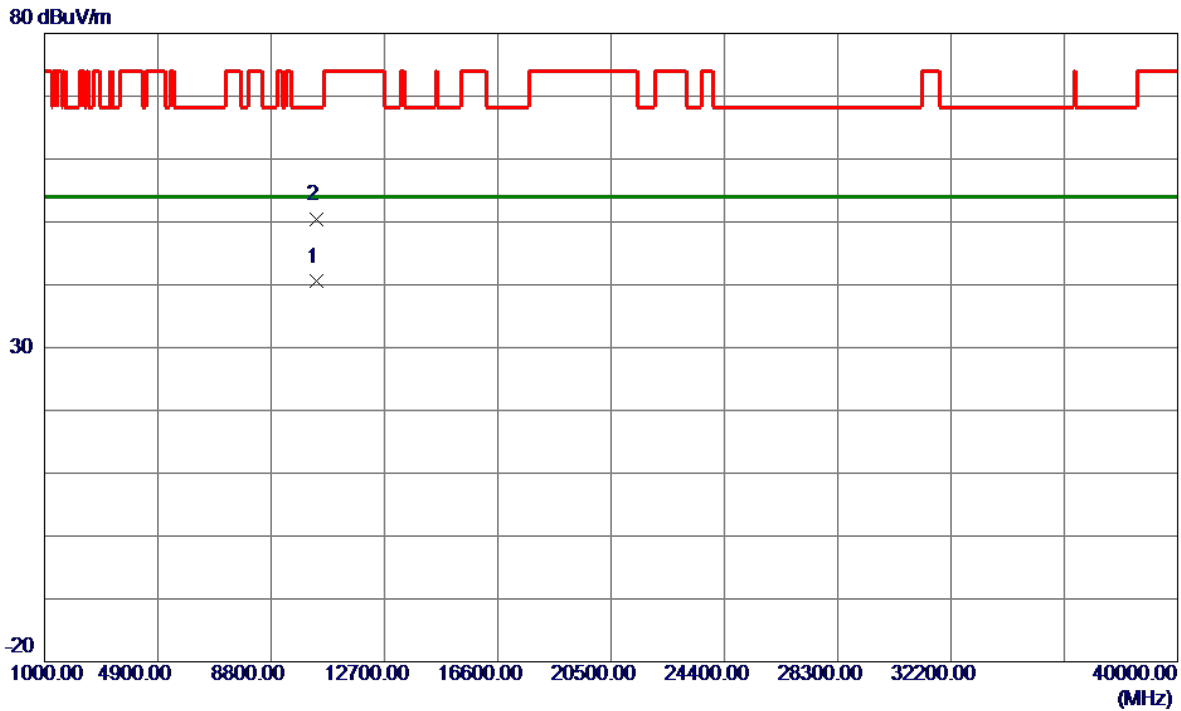


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	41.29	16.28	57.57	74.00	-16.43	Peak	
2	5150.0000	31.85	16.28	48.13	54.00	-5.87	AVG	
3 *	5179.2000	84.78	16.32	101.10	68.20	32.90	Peak	No Limit
4	5179.3000	77.81	16.32	94.13	999.00	-904.87	AVG	No Limit

REMARKS:

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

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

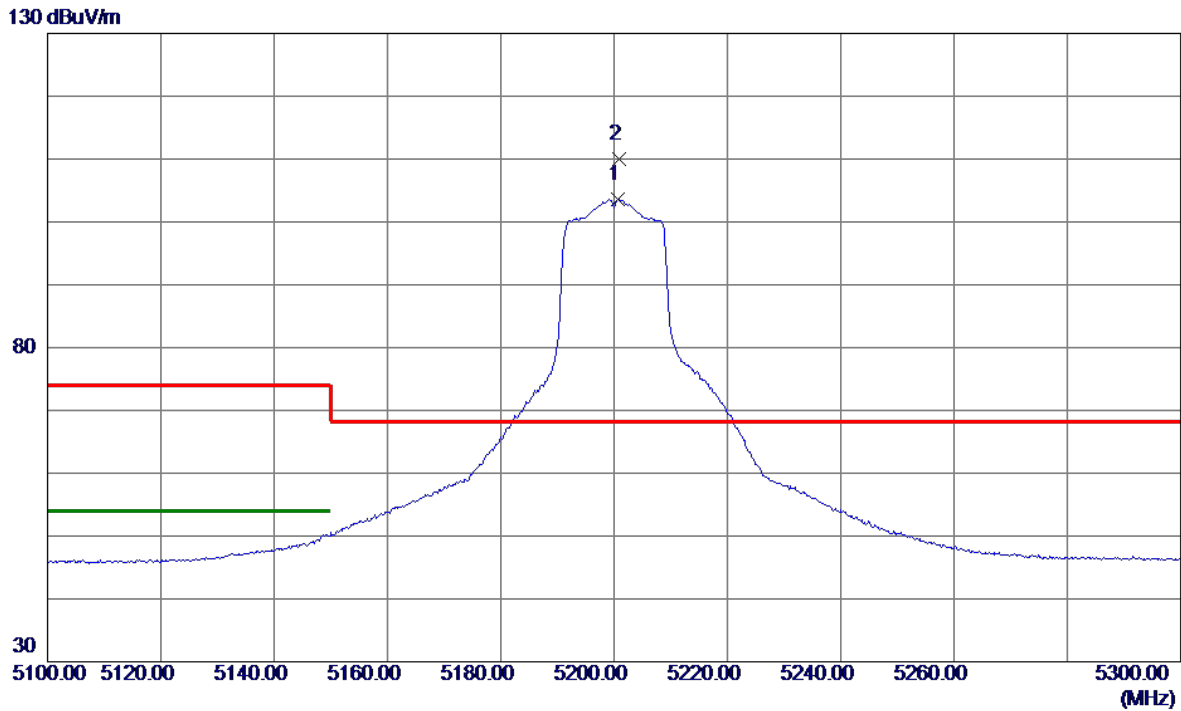


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10363.6900	27.04	13.46	40.50	54.00	-13.50	AVG	
2	10366.7699	36.90	13.46	50.36	68.20	-17.84	Peak	

REMARKS:

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

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

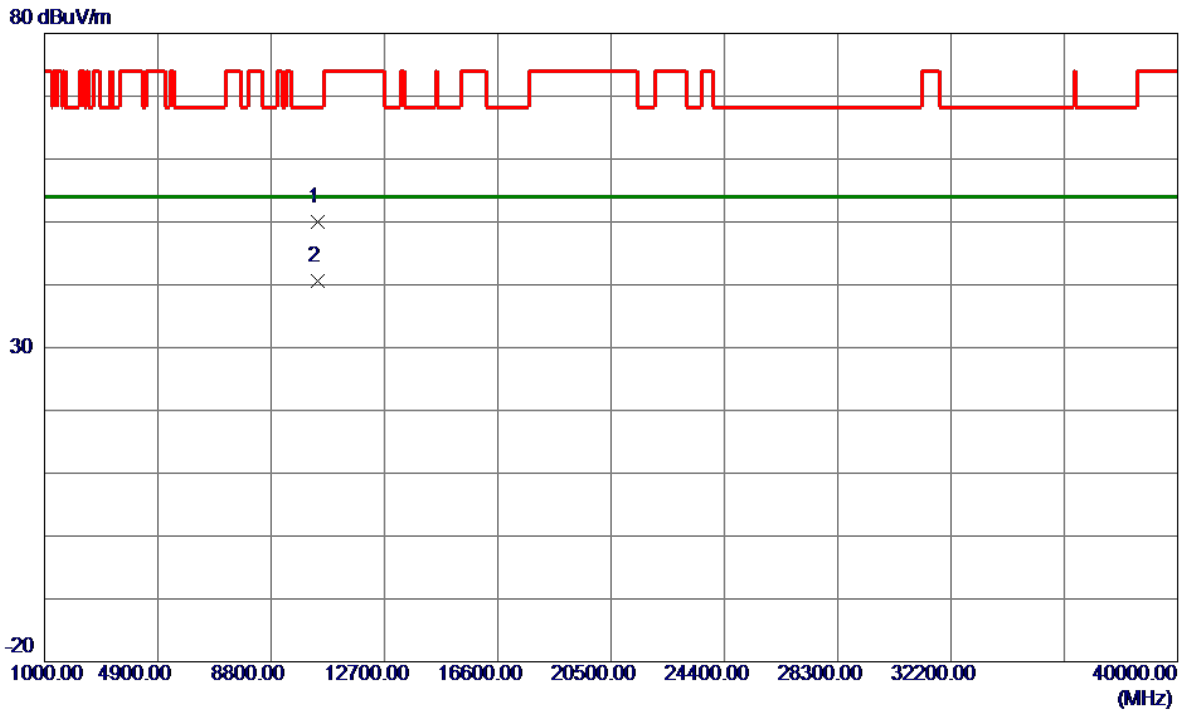


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5200.7000	87.30	16.34	103.64	999.00	-895.36	AVG	No Limit
2 *	5200.9000	93.72	16.34	110.06	68.20	41.86	Peak	No Limit

REMARKS:

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

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

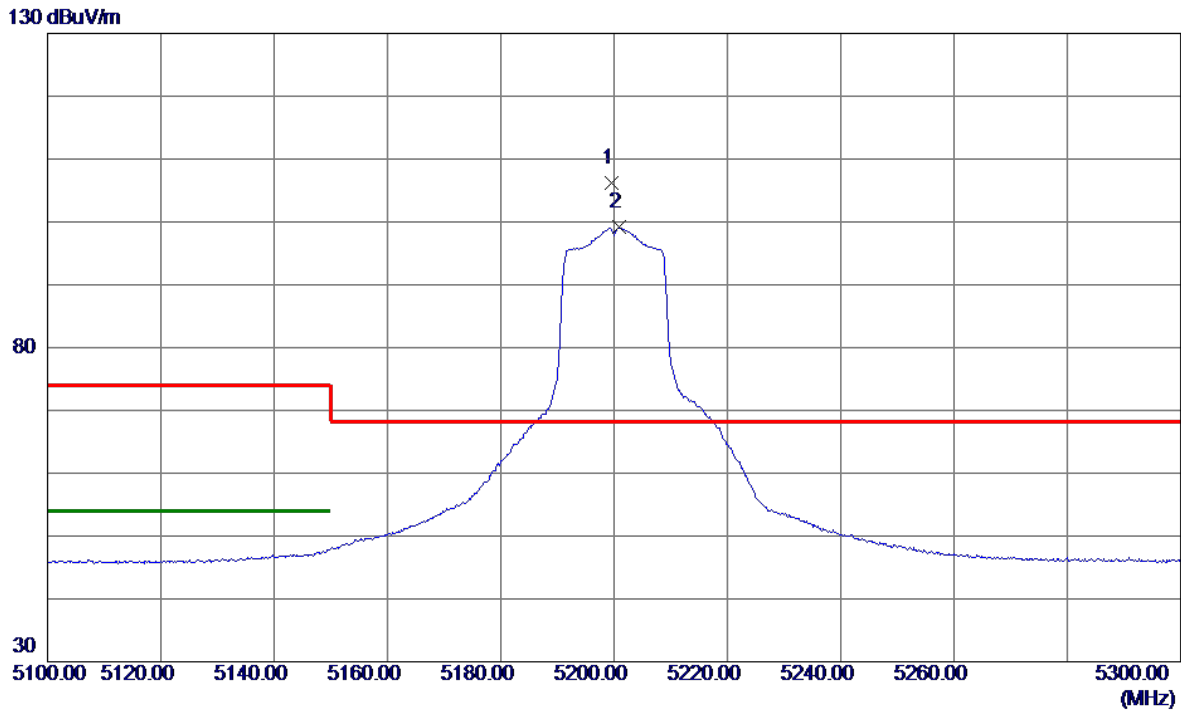


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10392.7100	36.52	13.49	50.01	68.20	-18.19	Peak	
2 *	10394.6900	27.14	13.49	40.63	54.00	-13.37	AVG	

REMARKS:

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

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

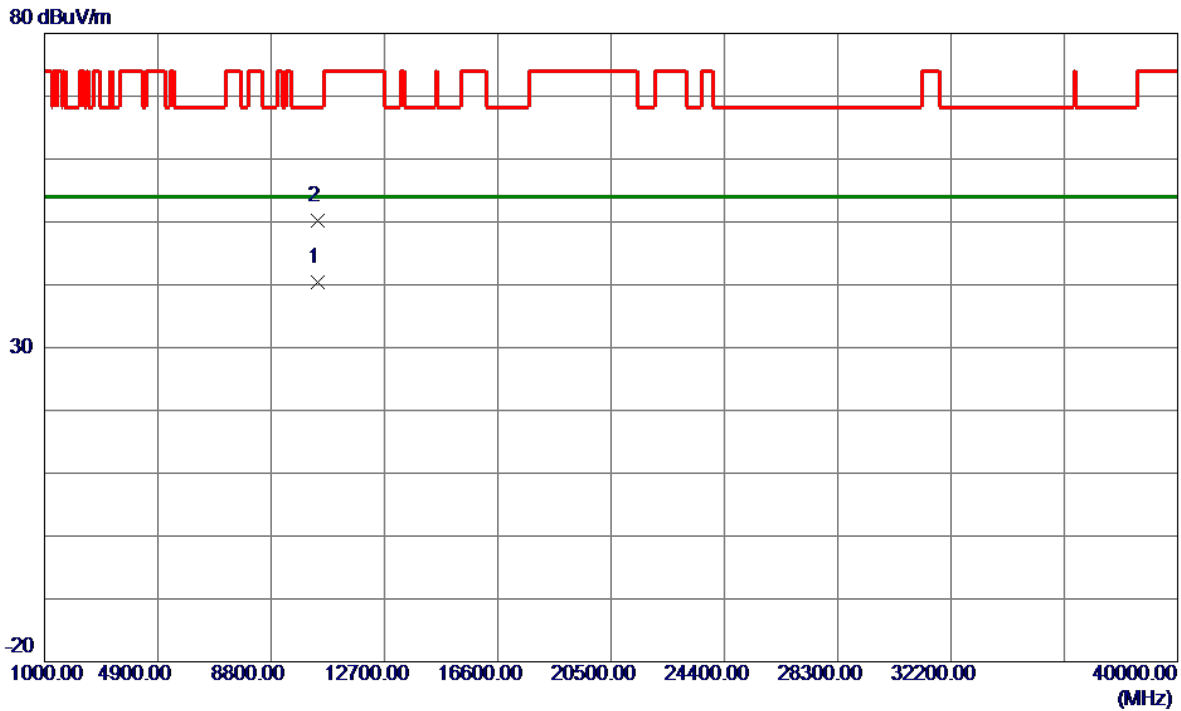


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5199.5000	89.79	16.34	106.13	68.20	37.93	Peak	No Limit
2	5200.9000	82.78	16.34	99.12	999.00	-899.88	AVG	No Limit

REMARKS:

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

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

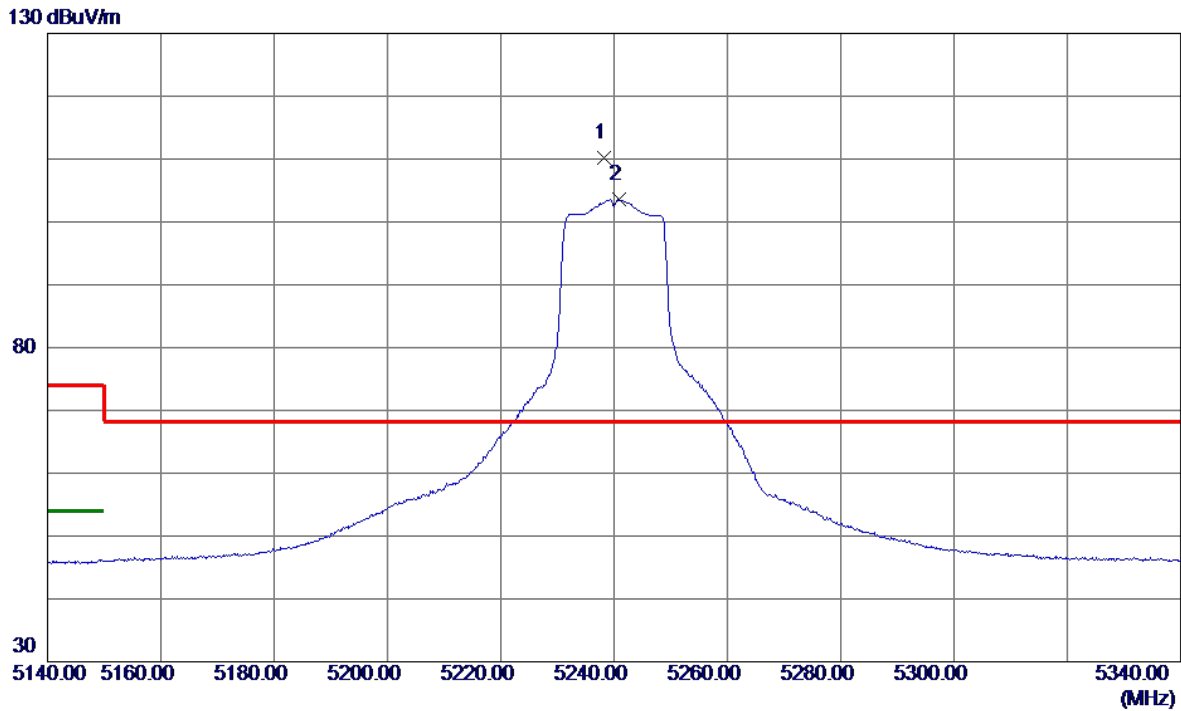


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10394.2500	26.90	13.49	40.39	54.00	-13.61	AVG	
2	10402.4500	36.66	13.49	50.15	68.20	-18.05	Peak	

REMARKS:

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

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

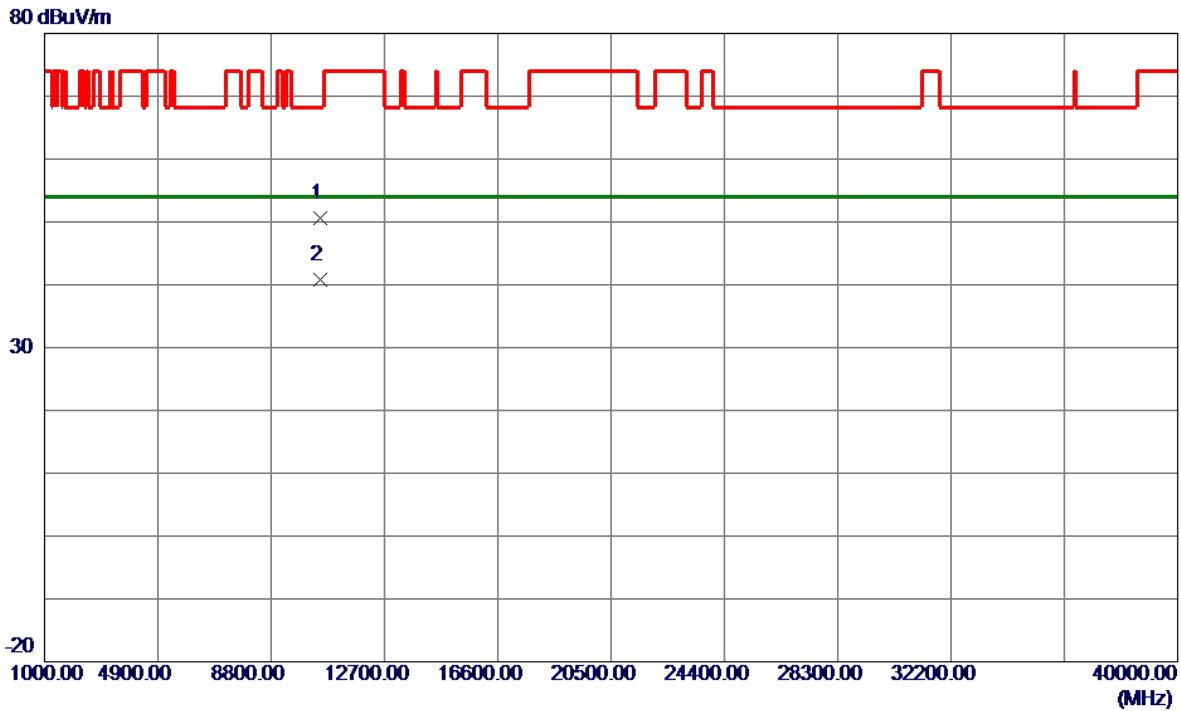


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5238.2000	93.73	16.38	110.11	68.20	41.91	Peak	No Limit
2	5240.8000	87.21	16.38	103.59	999.00	-895.41	AVG	No Limit

REMARKS:

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

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

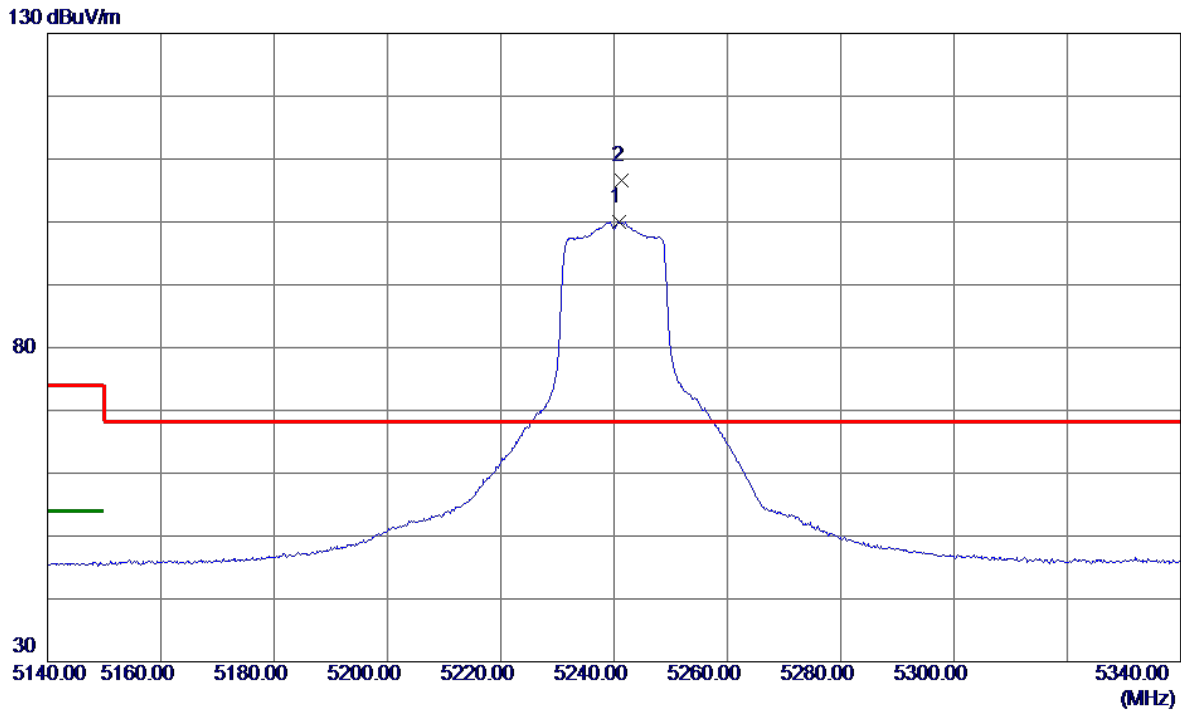


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10486.4000	36.95	13.56	50.51	68.20	-17.69	Peak	
2 *	10487.1400	27.24	13.56	40.80	54.00	-13.20	AVG	

REMARKS:

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

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

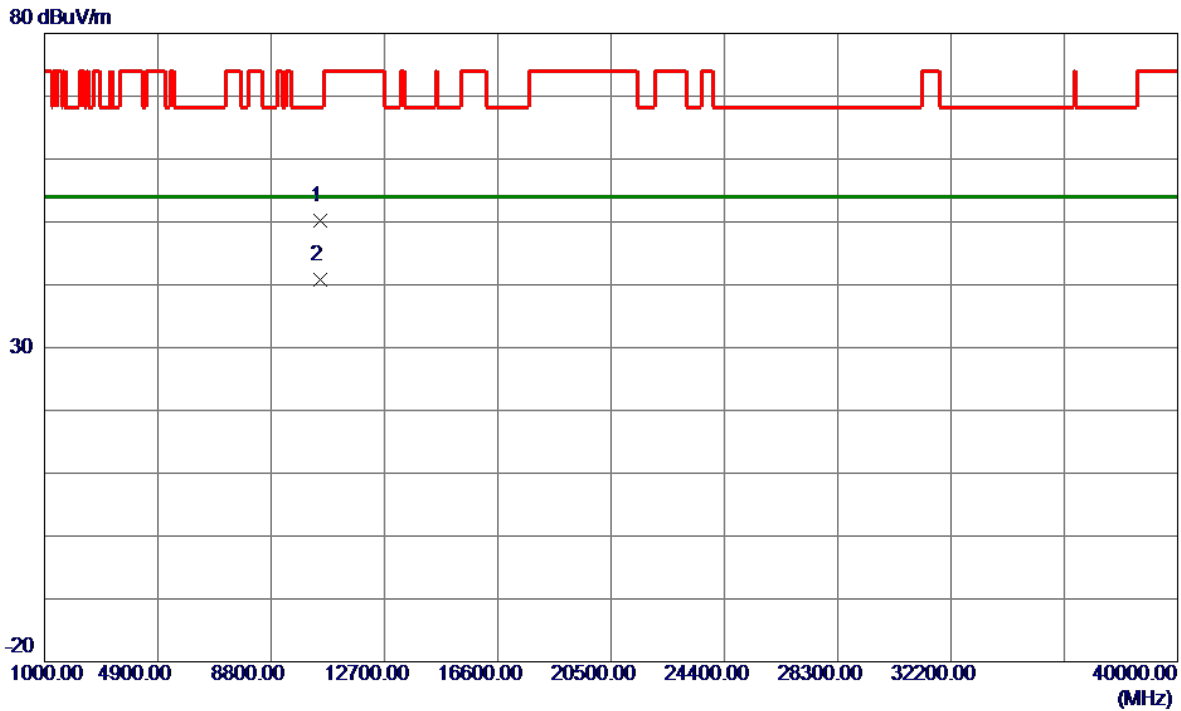


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5240.9000	83.65	16.38	100.03	999.00	-898.97	AVG	No Limit
2 *	5241.4000	90.31	16.38	106.69	68.20	38.49	Peak	No Limit

REMARKS:

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

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

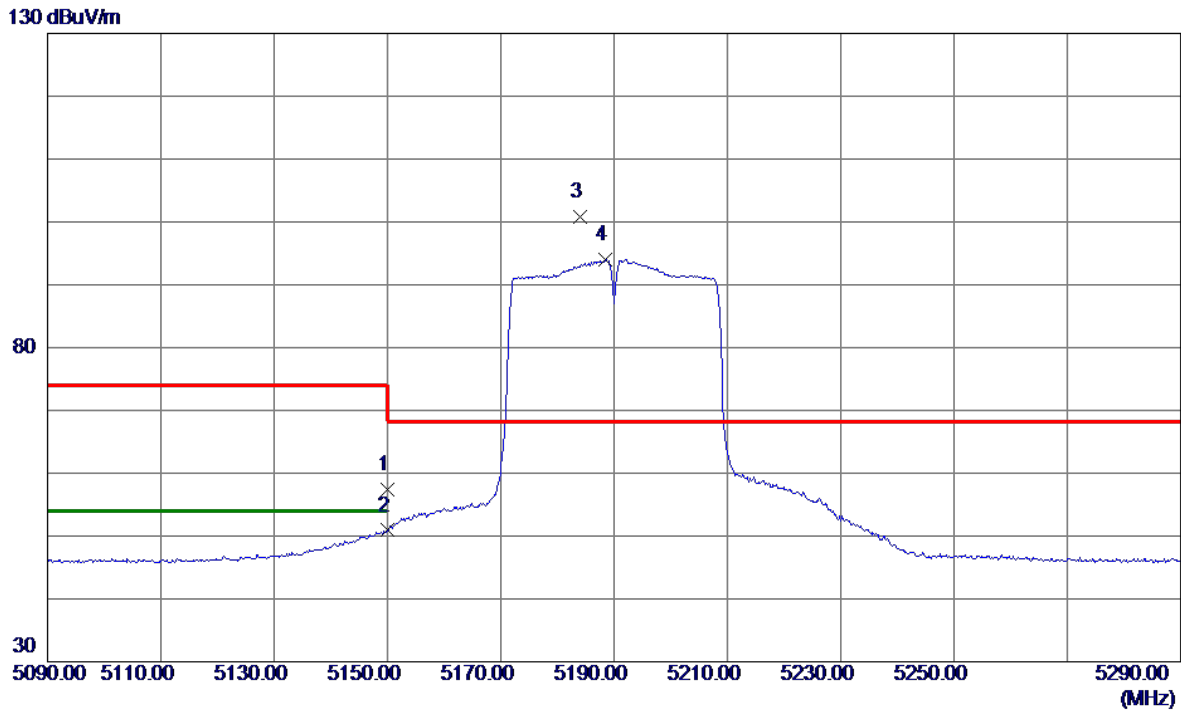


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10473.0199	36.70	13.55	50.25	68.20	-17.95	Peak	
2 *	10487.8400	27.19	13.56	40.75	54.00	-13.25	AVG	

REMARKS:

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

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

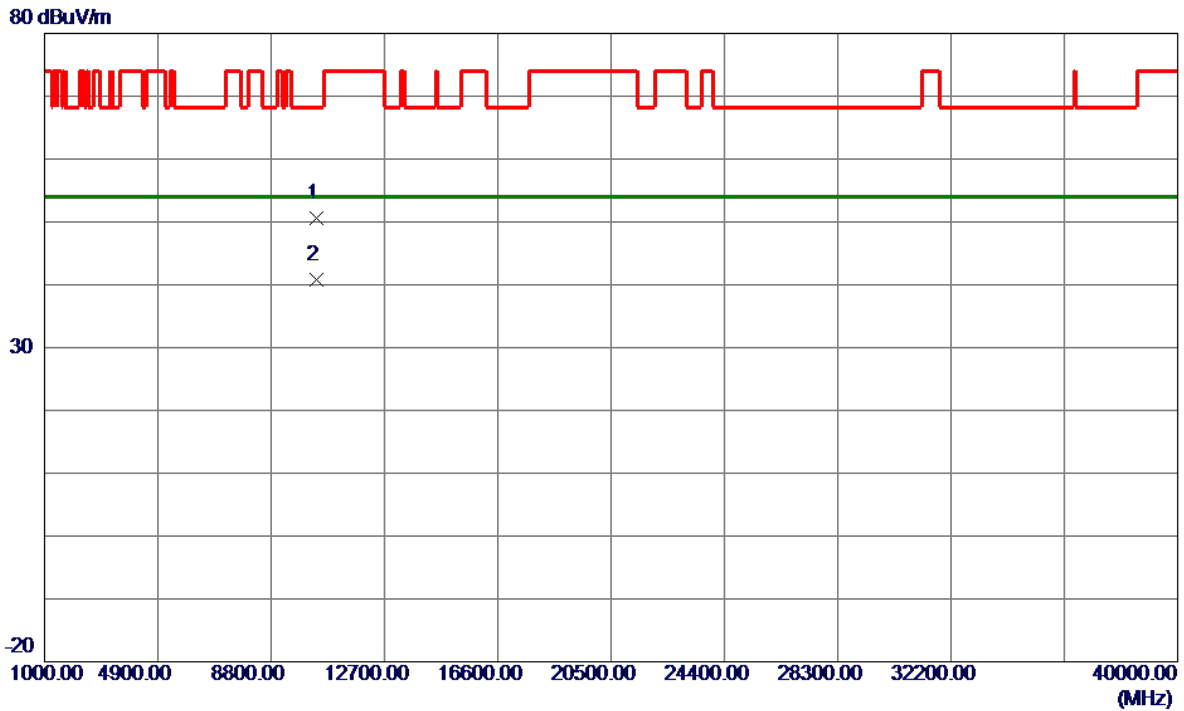


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	41.06	16.28	57.34	74.00	-16.66	Peak	
2	5150.0000	34.62	16.28	50.90	54.00	-3.10	AVG	
3 *	5183.9000	84.55	16.32	100.87	68.20	32.67	Peak	No Limit
4	5188.5000	77.69	16.33	94.02	999.00	-904.98	AVG	No Limit

REMARKS:

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

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

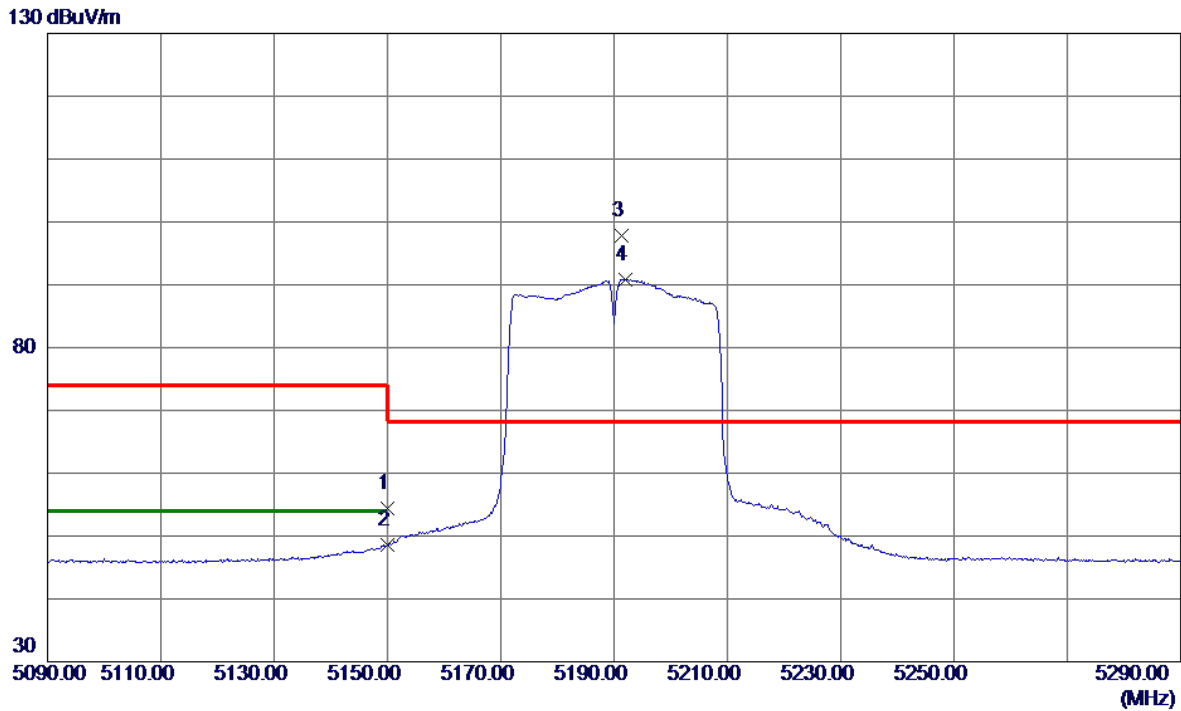


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10375.1600	37.05	13.47	50.52	68.20	-17.68	Peak	
2 *	10377.3600	27.24	13.47	40.71	54.00	-13.29	AVG	

REMARKS:

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

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

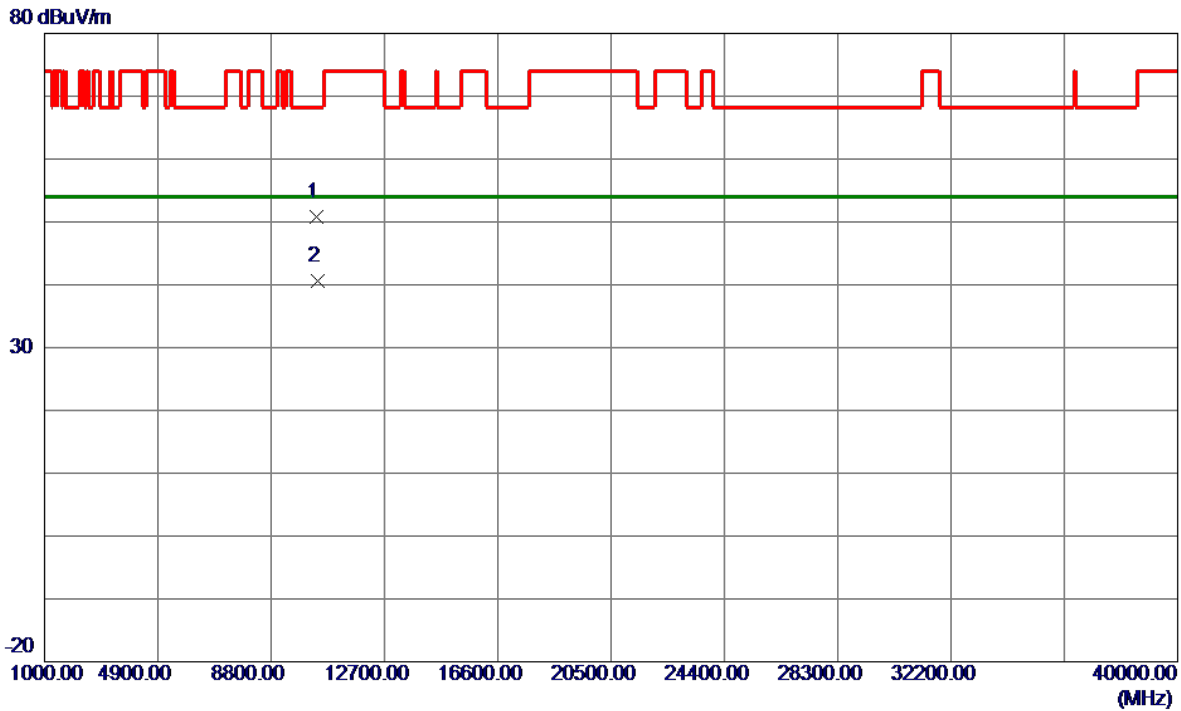


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	38.17	16.28	54.45	74.00	-19.55	Peak	
2	5150.0000	32.38	16.28	48.66	54.00	-5.34	AVG	
3 *	5191.4000	81.40	16.33	97.73	68.20	29.53	Peak	No Limit
4	5191.9000	74.56	16.33	90.89	999.00	-908.11	AVG	No Limit

REMARKS:

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

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

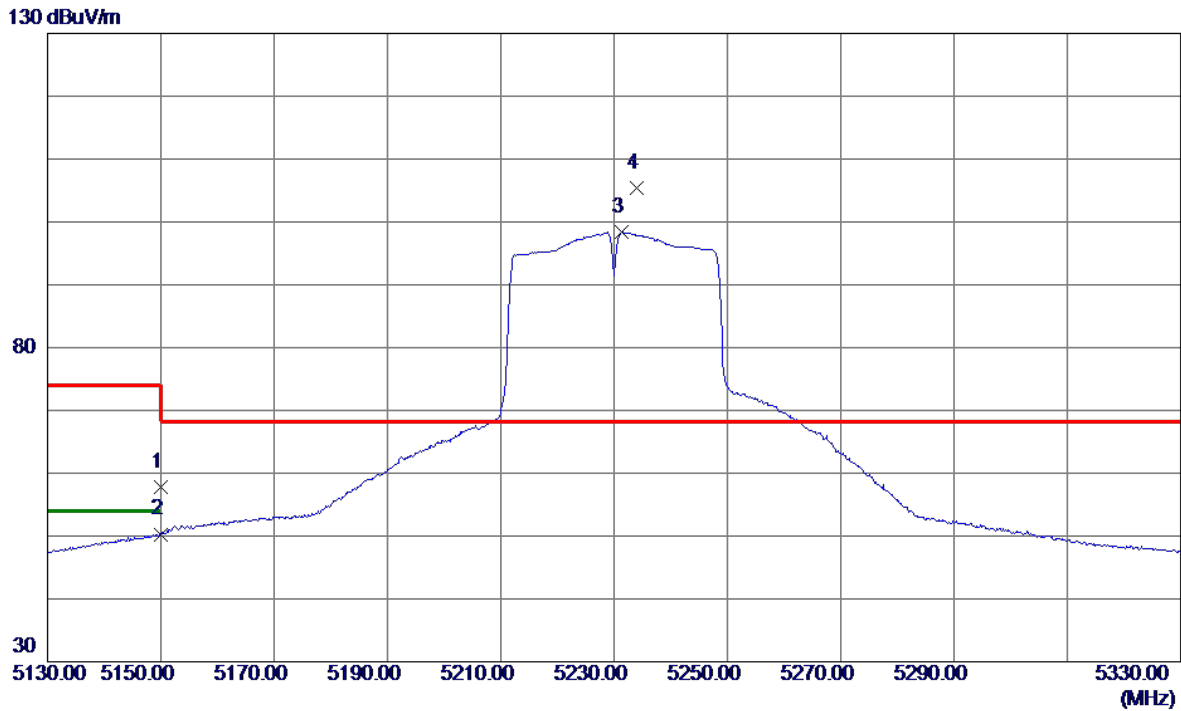


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10378.6900	37.31	13.47	50.78	68.20	-17.42	Peak	
2 *	10383.0199	27.21	13.48	40.69	54.00	-13.31	AVG	

REMARKS:

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

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

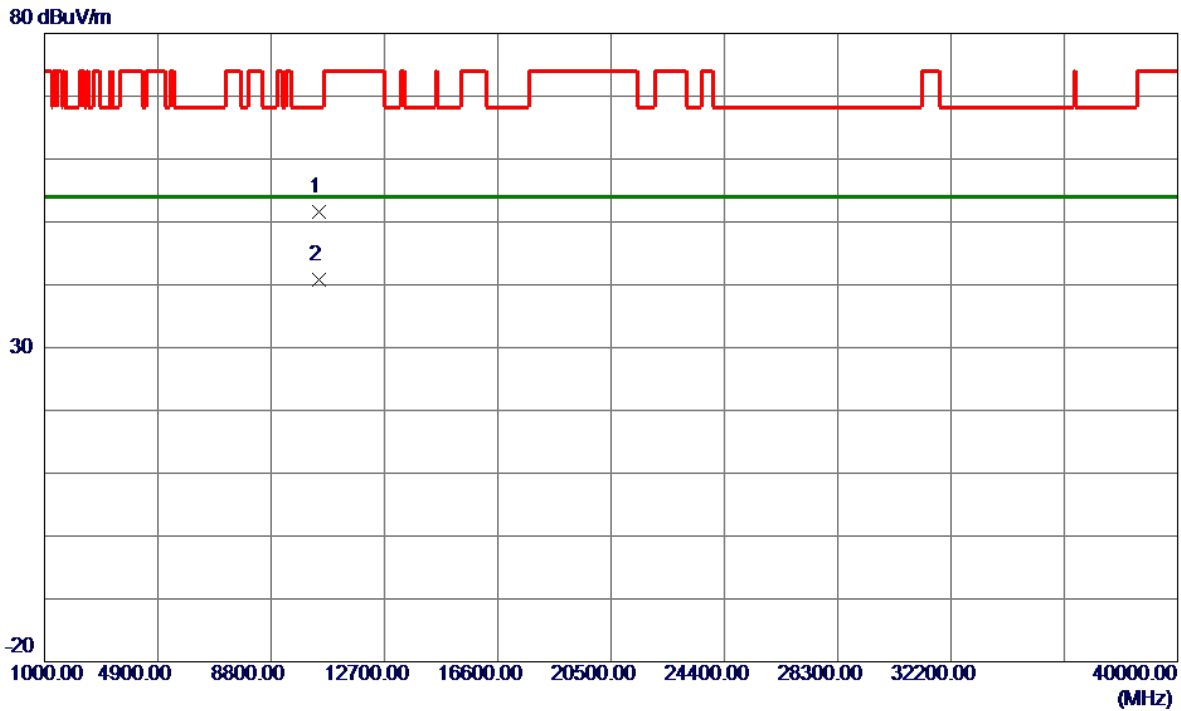


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	41.52	16.28	57.80	74.00	-16.20	Peak	
2	5150.0000	34.02	16.28	50.30	54.00	-3.70	AVG	
3	5231.3000	82.08	16.37	98.45	999.00	-900.55	AVG	No Limit
4 *	5234.0000	88.94	16.38	105.32	68.20	37.12	Peak	No Limit

REMARKS:

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

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

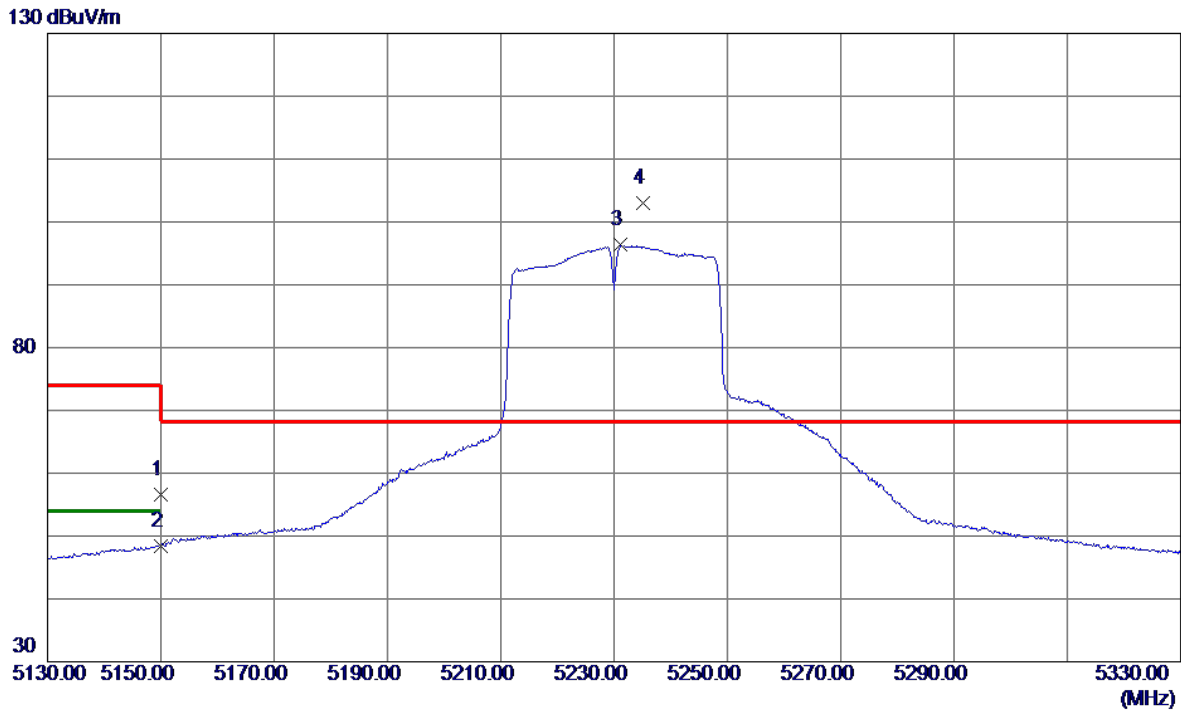


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10455.7600	38.13	13.54	51.67	68.20	-16.53	Peak	
2 *	10457.3900	27.25	13.54	40.79	54.00	-13.21	AVG	

REMARKS:

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

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

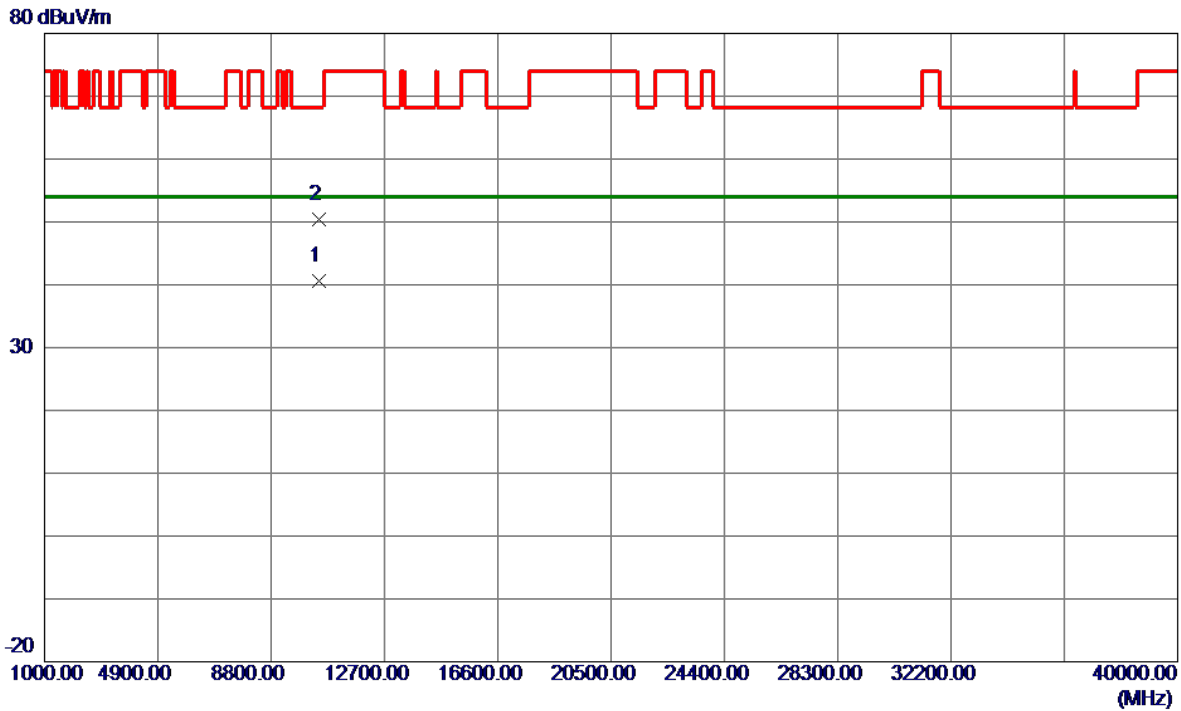


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	40.36	16.28	56.64	74.00	-17.36	Peak	
2	5150.0000	32.04	16.28	48.32	54.00	-5.68	AVG	
3	5231.2000	80.03	16.37	96.40	999.00	-902.60	AVG	No Limit
4 *	5235.2000	86.69	16.38	103.07	68.20	34.87	Peak	No Limit

REMARKS:

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

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

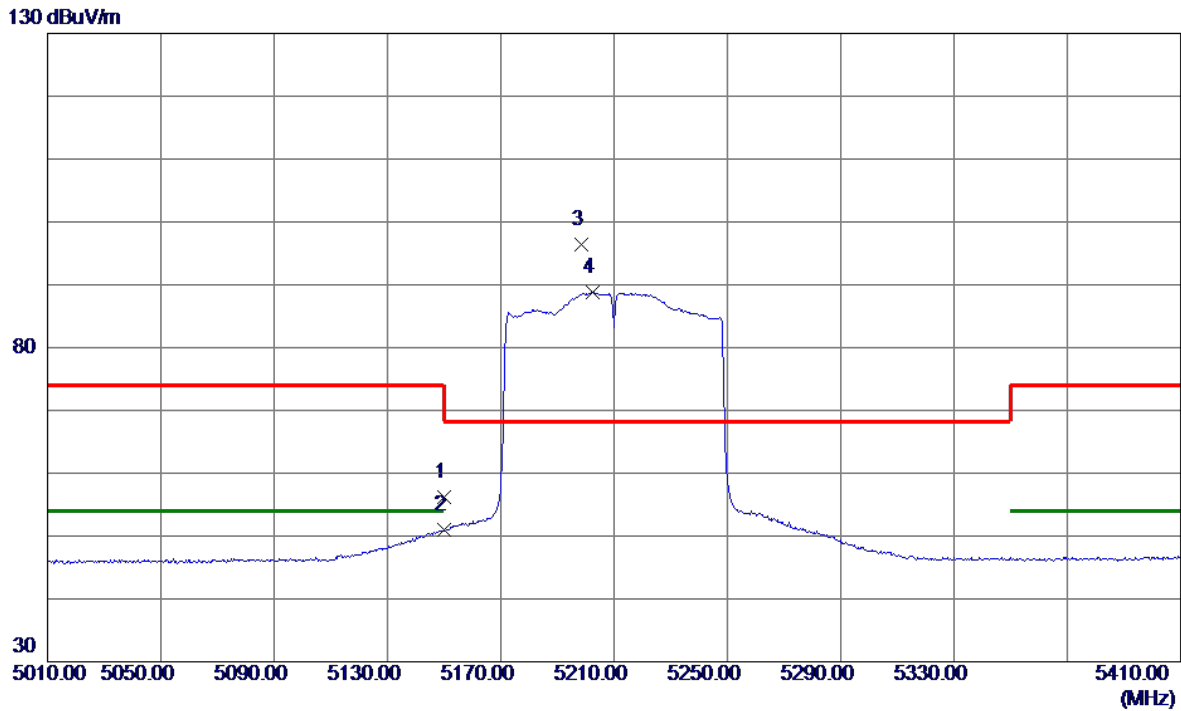


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10460.2100	27.07	13.54	40.61	54.00	-13.39	AVG	
2	10468.0199	36.93	13.55	50.48	68.20	-17.72	Peak	

REMARKS:

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

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

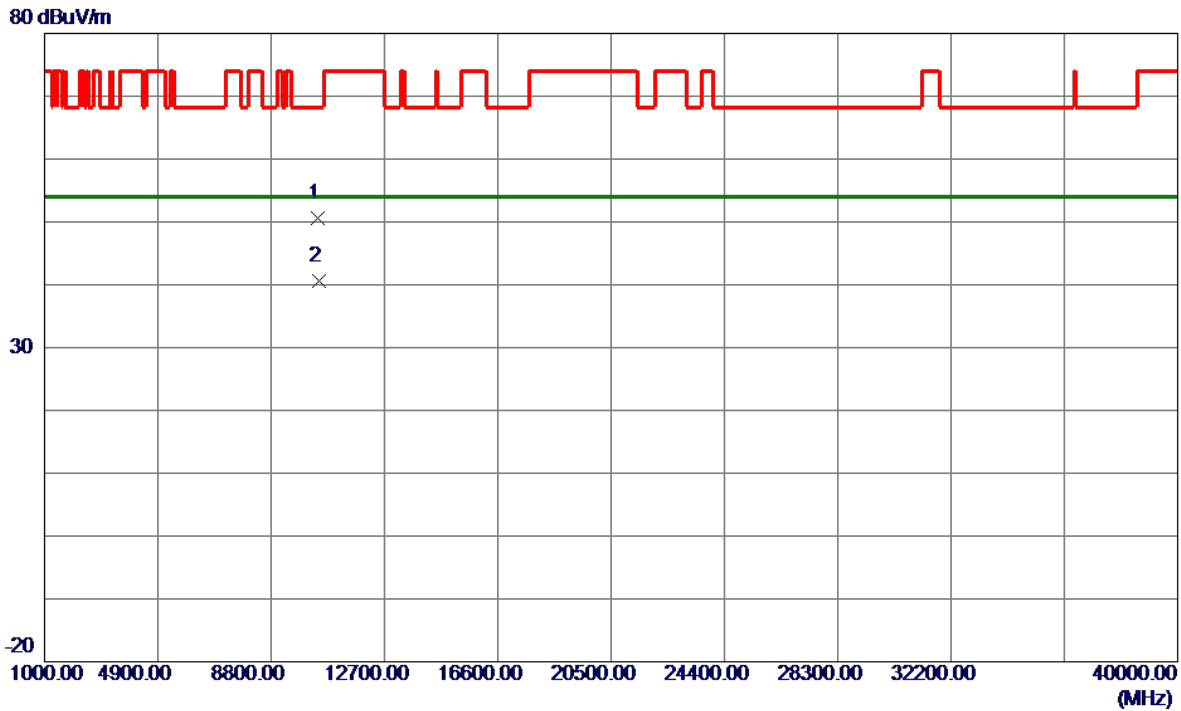


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	39.85	16.28	56.13	74.00	-17.87	Peak	
2	5150.0000	34.64	16.28	50.92	54.00	-3.08	AVG	
3 *	5198.4000	80.15	16.34	96.49	68.20	28.29	Peak	No Limit
4	5202.4000	72.53	16.34	88.87	999.00	-910.13	AVG	No Limit

REMARKS:

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

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

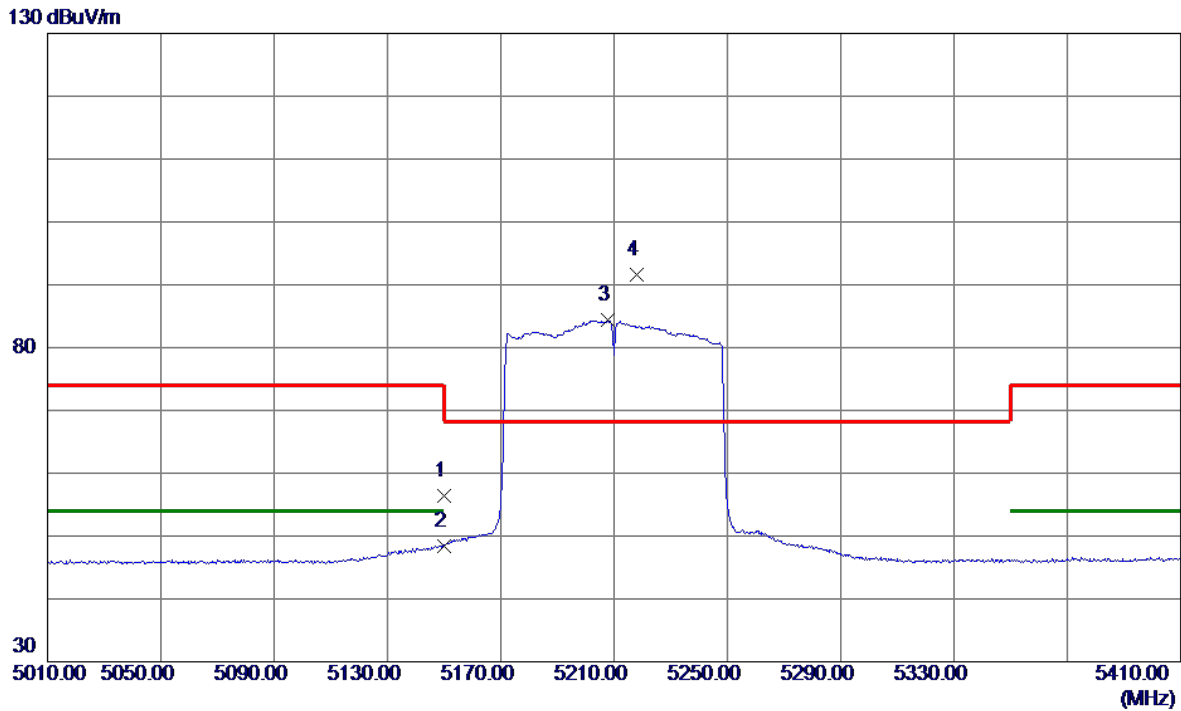


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10417.7400	37.15	13.51	50.66	68.20	-17.54	Peak	
2 *	10427.4100	27.03	13.51	40.54	54.00	-13.46	AVG	

REMARKS:

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

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

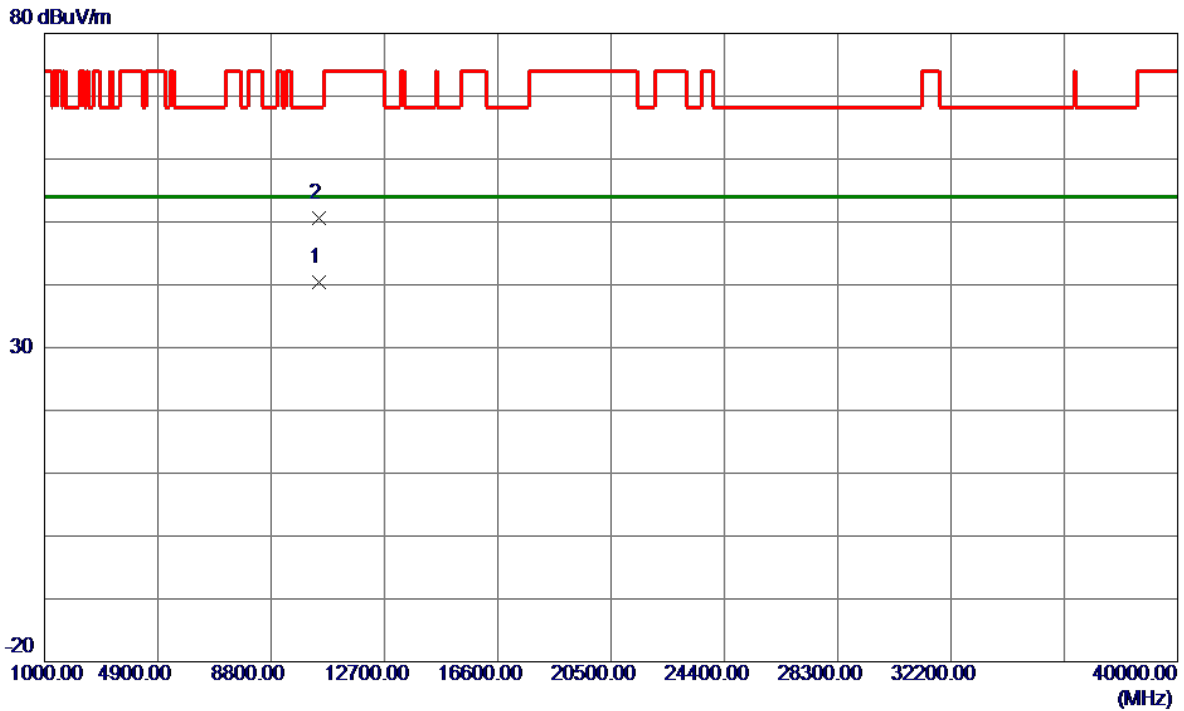


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	40.17	16.28	56.45	74.00	-17.55	Peak	
2	5150.0000	32.05	16.28	48.33	54.00	-5.67	AVG	
3	5207.8000	68.00	16.35	84.35	999.00	-914.65	AVG	No Limit
4 *	5217.8000	75.25	16.36	91.61	68.20	23.41	Peak	No Limit

REMARKS:

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

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

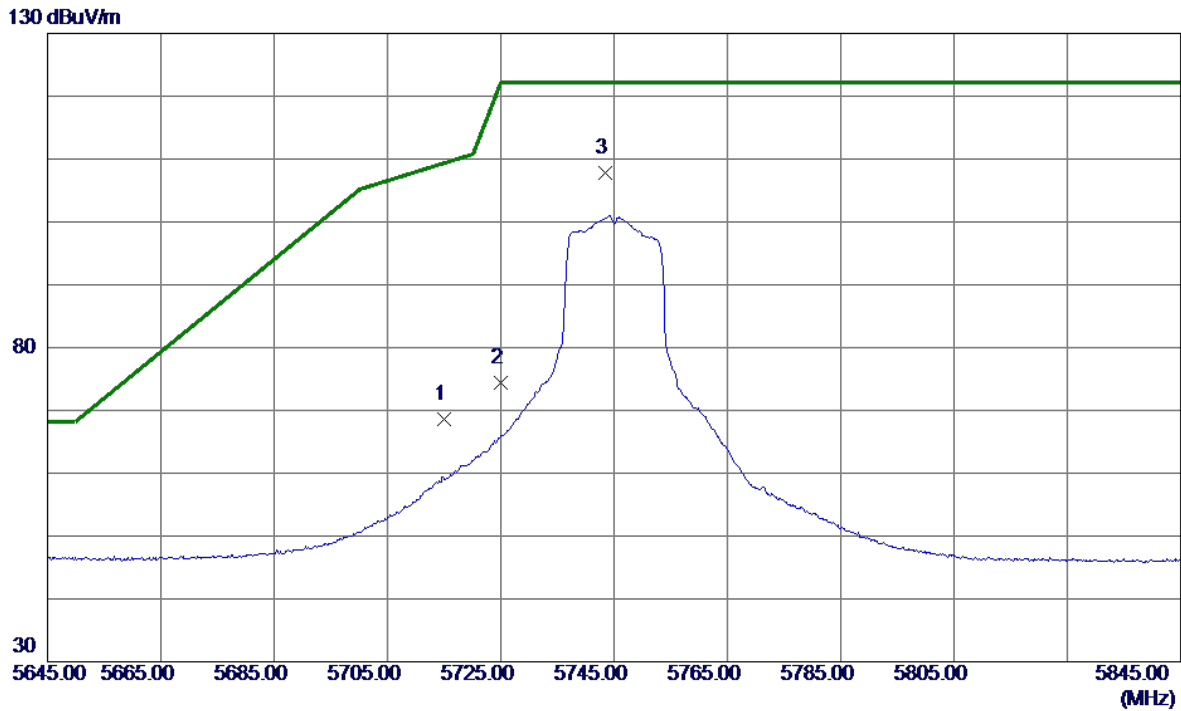


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10426.6200	26.89	13.51	40.40	54.00	-13.60	AVG	
2	10427.1300	37.02	13.51	50.53	68.20	-17.67	Peak	

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
-----------	---------------------------	--------------	----------

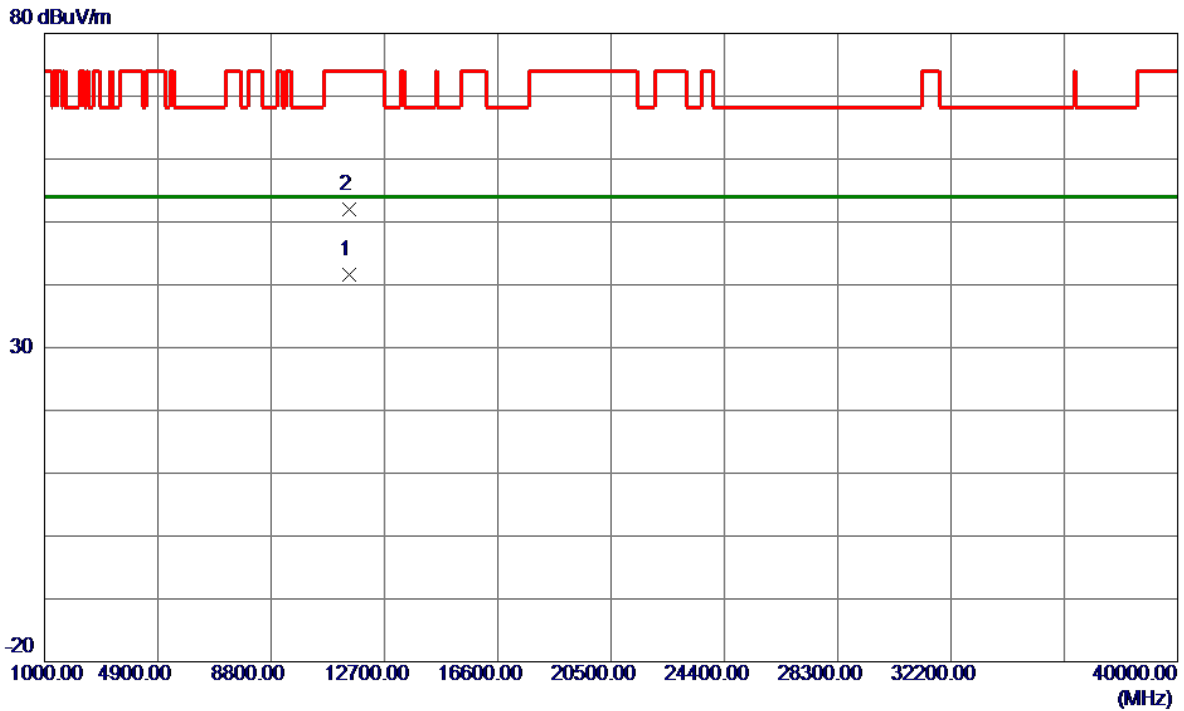


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	51.86	16.79	68.65	109.40	-40.75	Peak	
2	5725.0000	57.68	16.80	74.48	122.20	-47.72	Peak	
3 *	5743.5000	90.96	16.81	107.77	122.20	-14.43	Peak	No Limit

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
-----------	---------------------------	--------------	----------

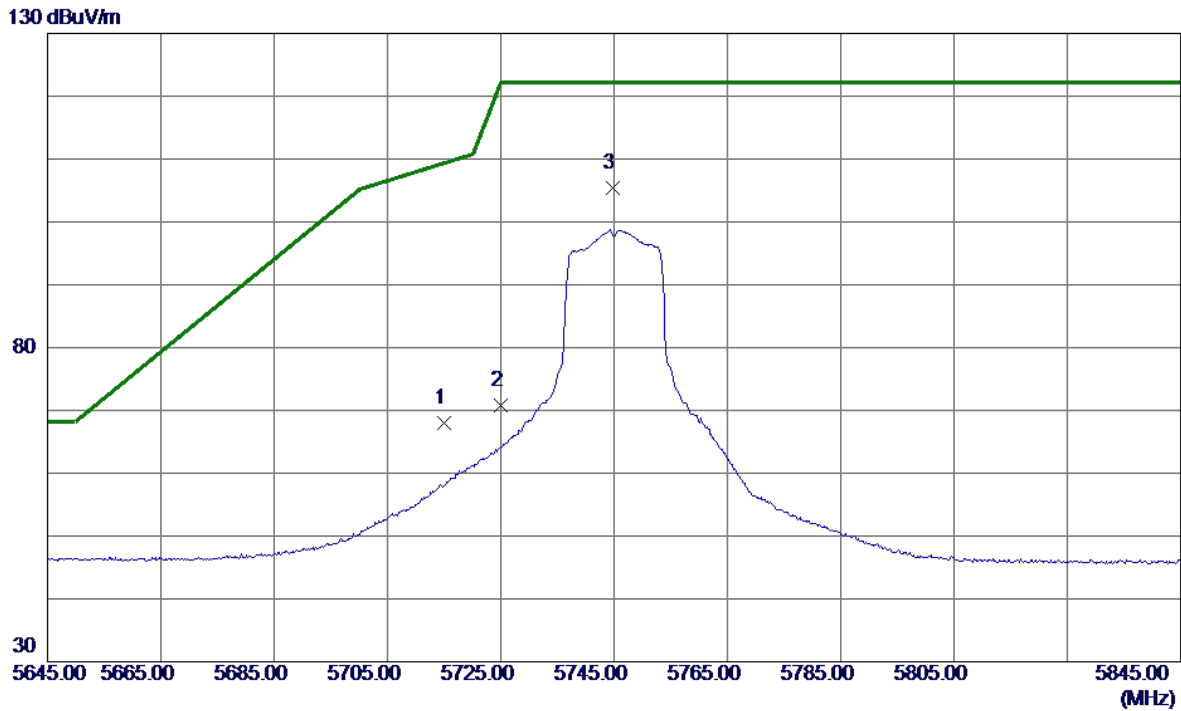


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11484.2900	26.99	14.63	41.62	54.00	-12.38	AVG	
2	11485.7500	37.35	14.63	51.98	74.00	-22.02	Peak	

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	Horizontal
-----------	---------------------------	--------------	------------

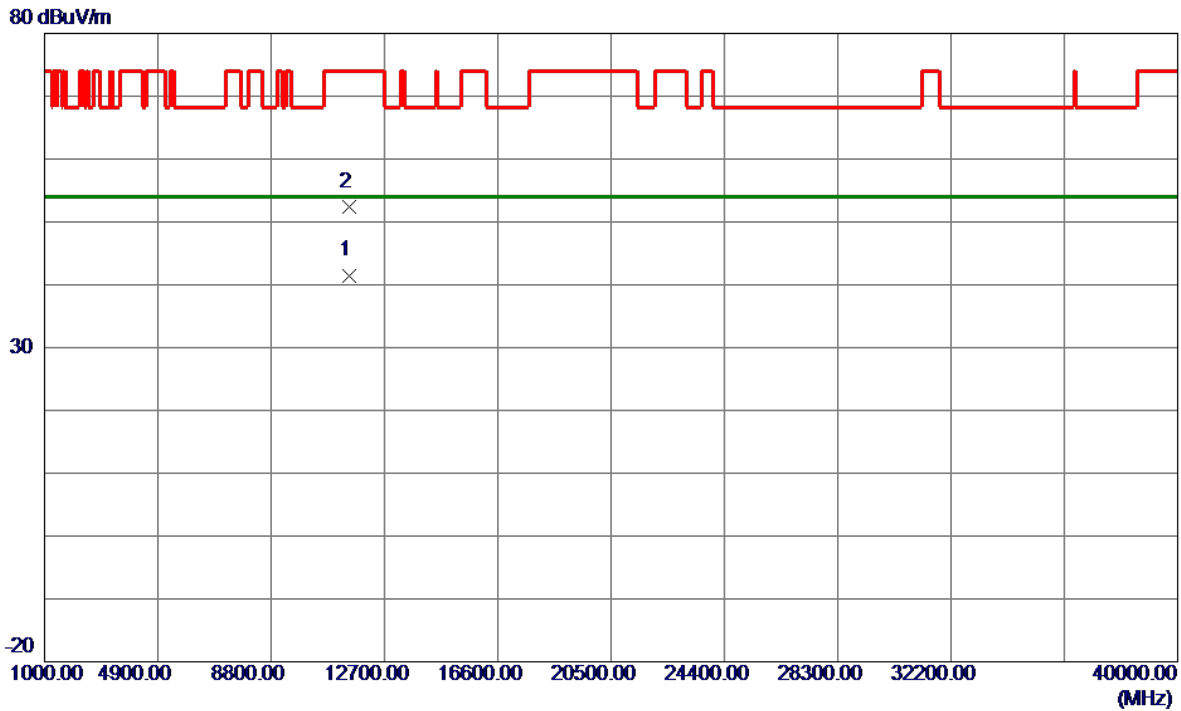


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	51.30	16.79	68.09	109.40	-41.31	Peak	
2	5725.0000	53.95	16.80	70.75	122.20	-51.45	Peak	
3 *	5744.8000	88.59	16.81	105.40	122.20	-16.80	Peak	No Limit

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	Horizontal
-----------	---------------------------	--------------	------------

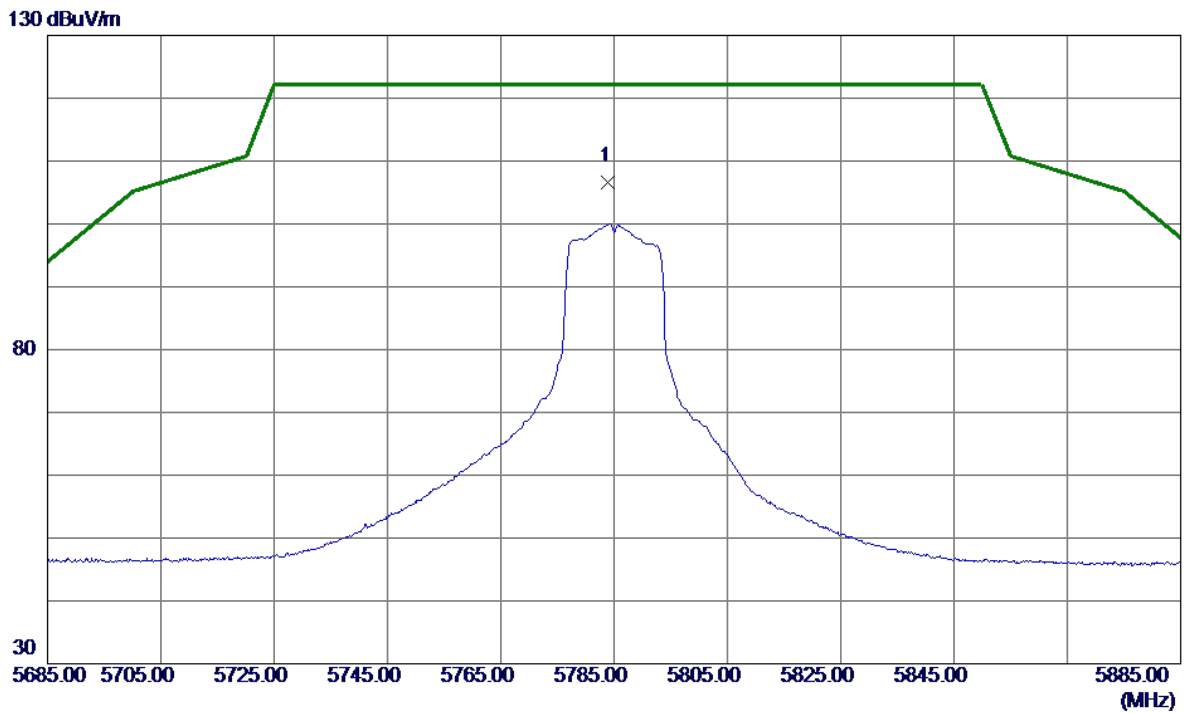


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11483.9500	26.87	14.63	41.50	54.00	-12.50	AVG	
2	11485.3700	37.72	14.63	52.35	74.00	-21.65	Peak	

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
-----------	---------------------------	--------------	----------

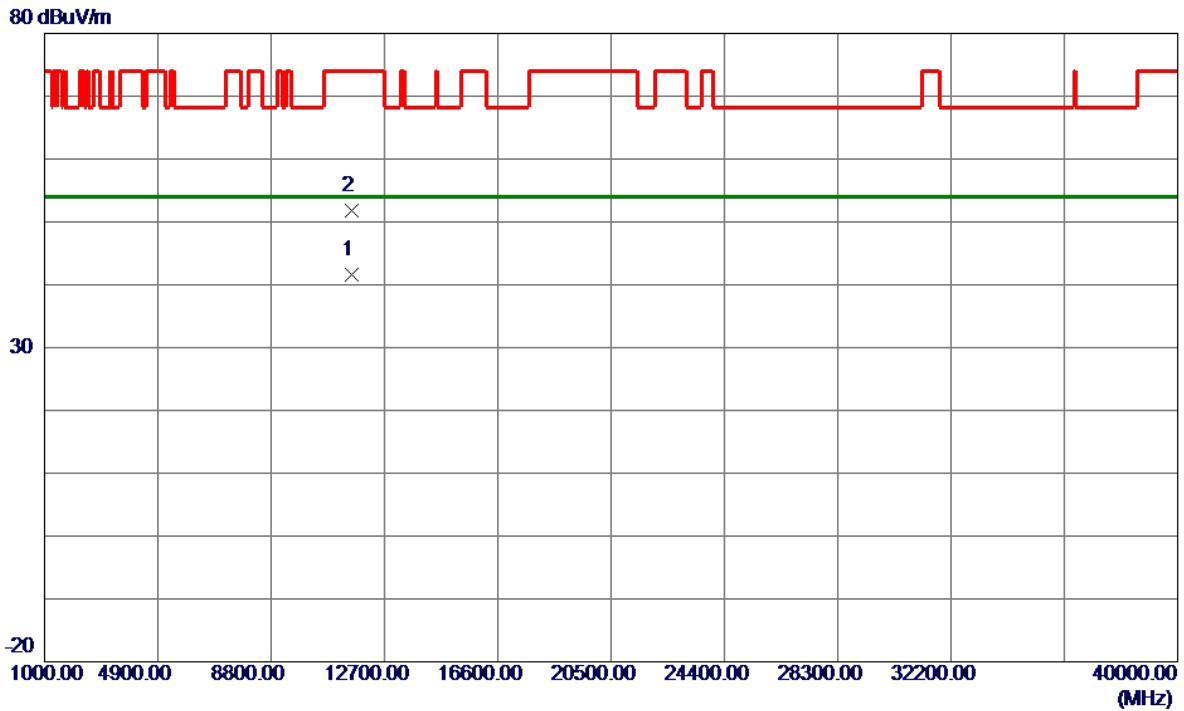


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5784.0000	89.87	16.83	106.70	122.20	-15.50	Peak	No Limit

REMARKS:

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

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

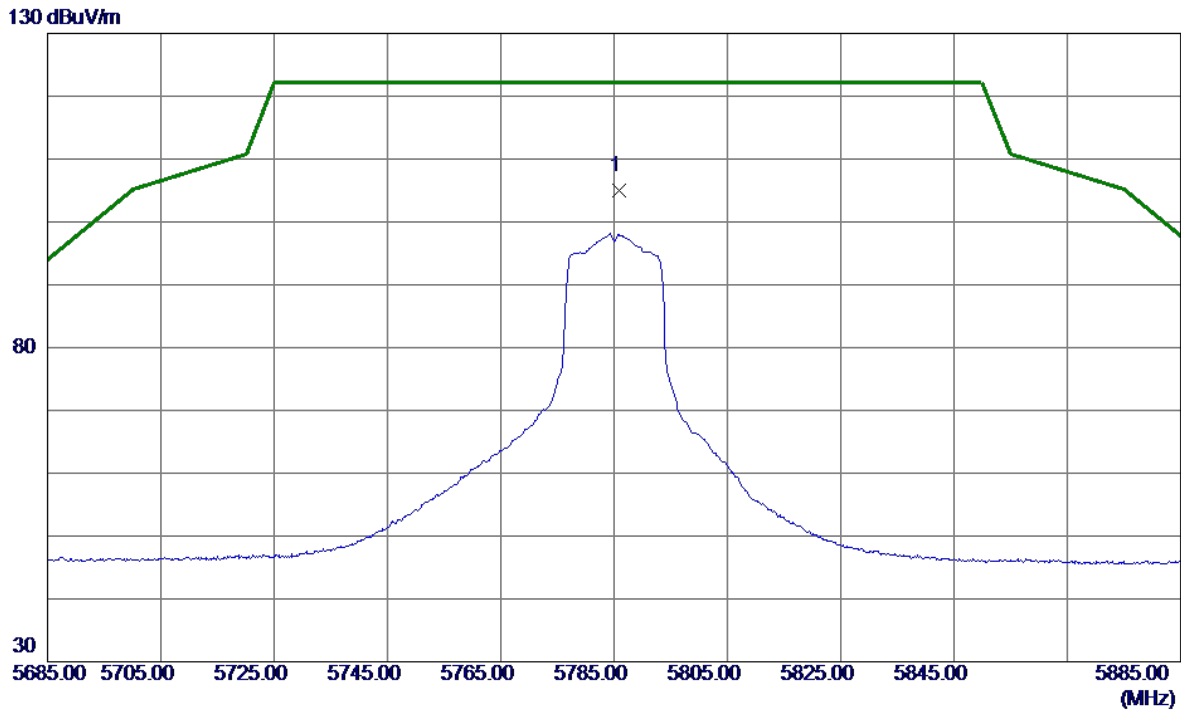


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11560.5300	26.98	14.71	41.69	54.00	-12.31	AVG	
2	11562.9300	37.02	14.71	51.73	74.00	-22.27	Peak	

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	Horizontal
-----------	---------------------------	--------------	------------

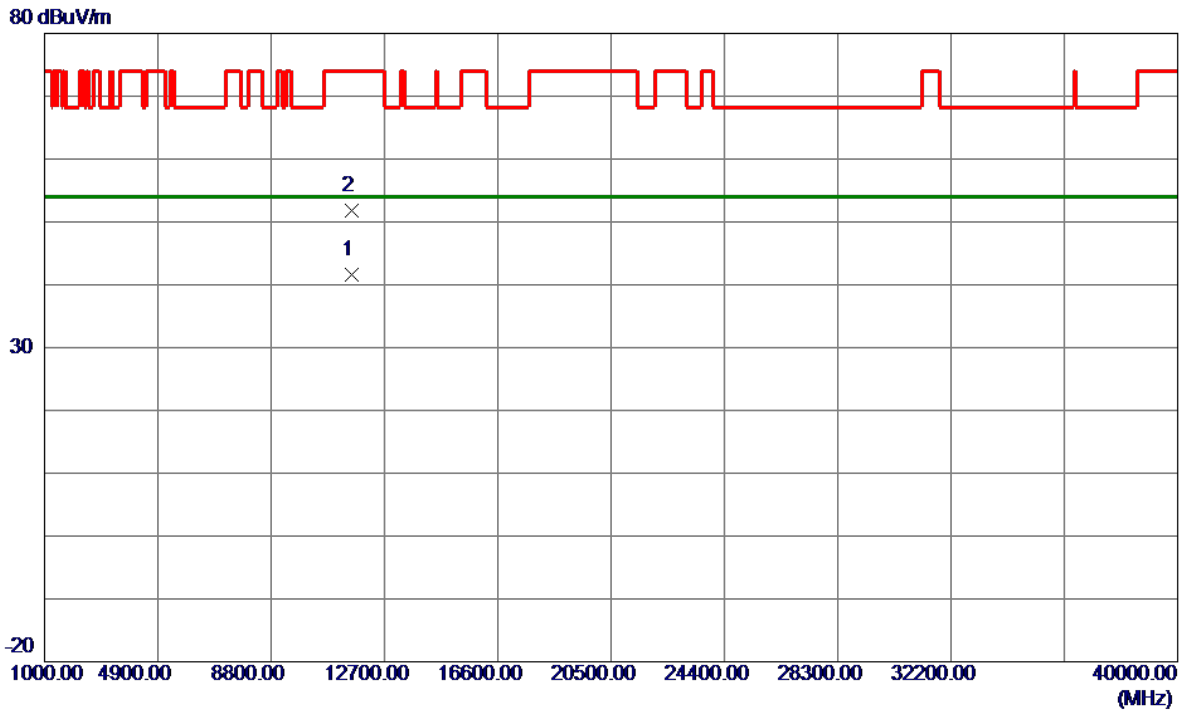


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5785.9000	88.23	16.83	105.06	122.20	-17.14	Peak	No Limit

REMARKS:

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

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

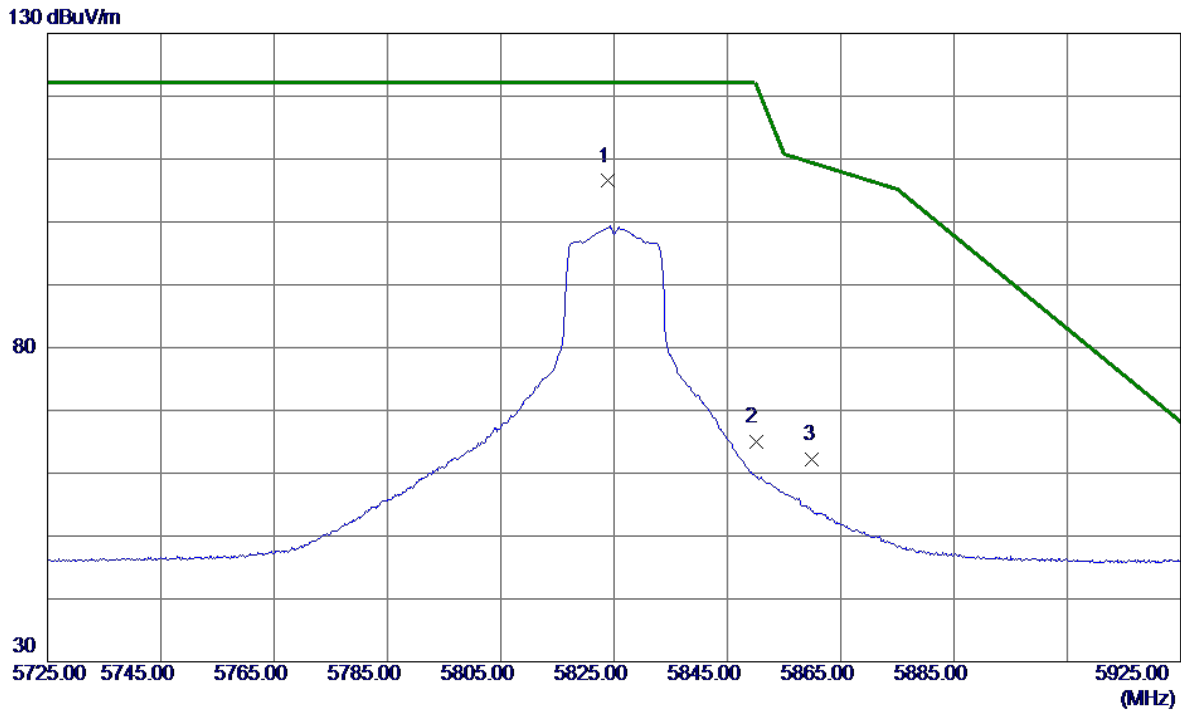


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11560.4600	26.95	14.71	41.66	54.00	-12.34	AVG	
2	11560.9500	37.10	14.71	51.81	74.00	-22.19	Peak	

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
-----------	---------------------------	--------------	----------

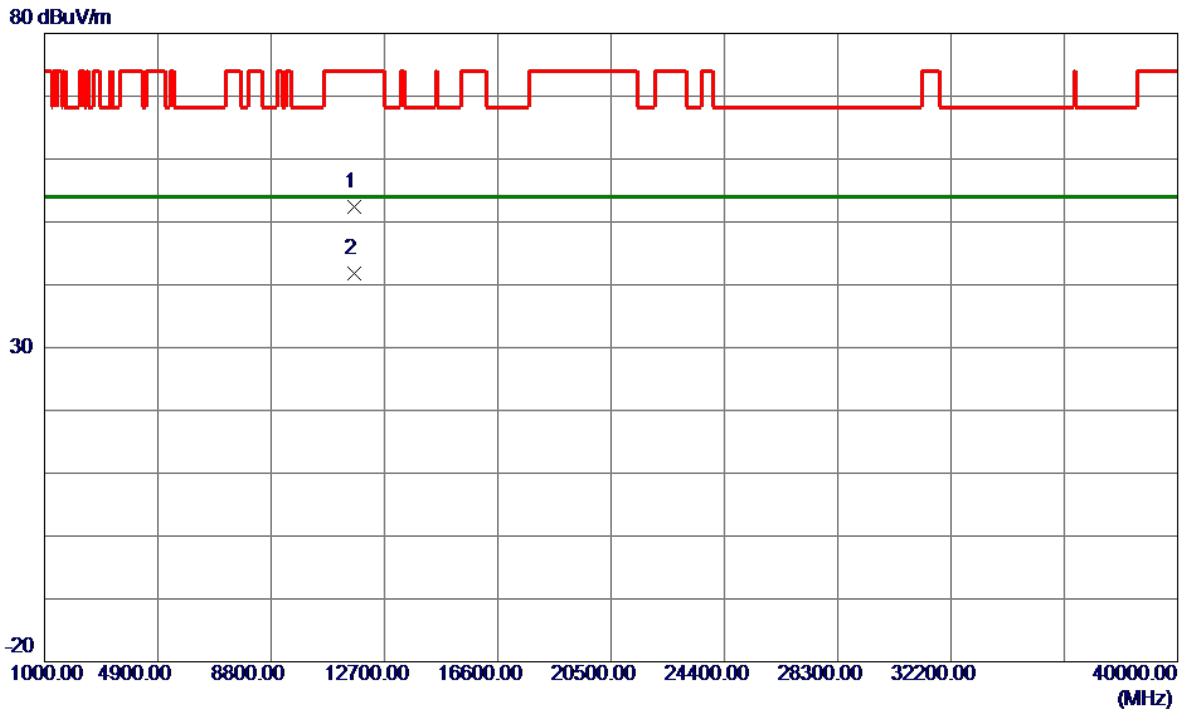


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.8000	89.64	16.86	106.50	122.20	-15.70	Peak	No Limit
2	5850.0000	48.13	16.87	65.00	122.20	-57.20	Peak	
3	5860.0000	45.32	16.88	62.20	109.40	-47.20	Peak	

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
-----------	---------------------------	--------------	----------

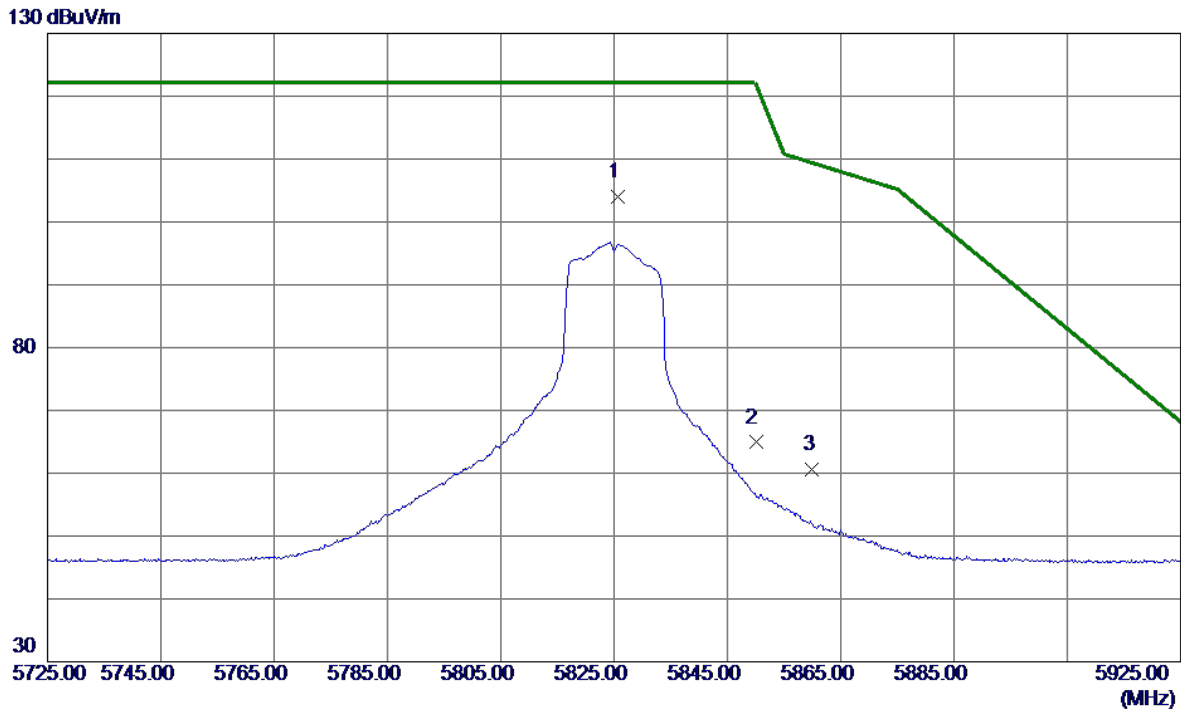


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11649.0900	37.63	14.78	52.41	74.00	-21.59	Peak	
2 *	11653.1000	27.03	14.78	41.81	54.00	-12.19	AVG	

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	Horizontal
-----------	---------------------------	--------------	------------

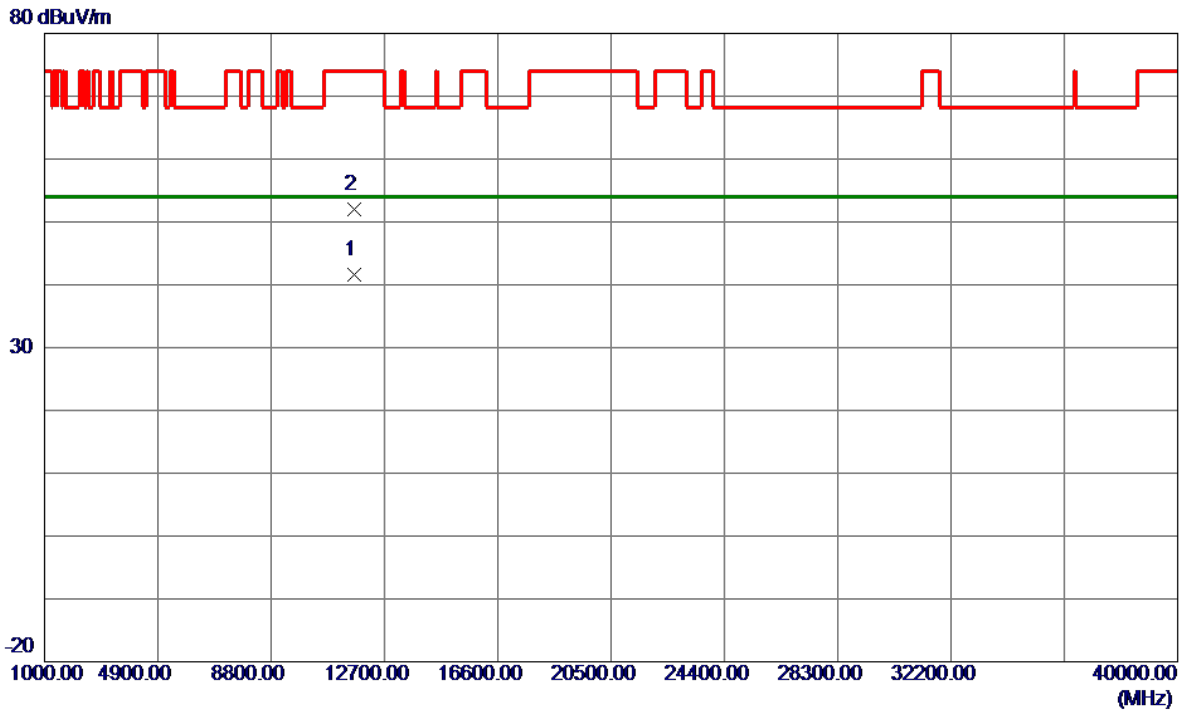


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5825.7000	87.10	16.86	103.96	122.20	-18.24	Peak	No Limit
2	5850.0000	48.03	16.87	64.90	122.20	-57.30	Peak	
3	5860.0000	43.66	16.88	60.54	109.40	-48.86	Peak	

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	Horizontal
-----------	---------------------------	--------------	------------

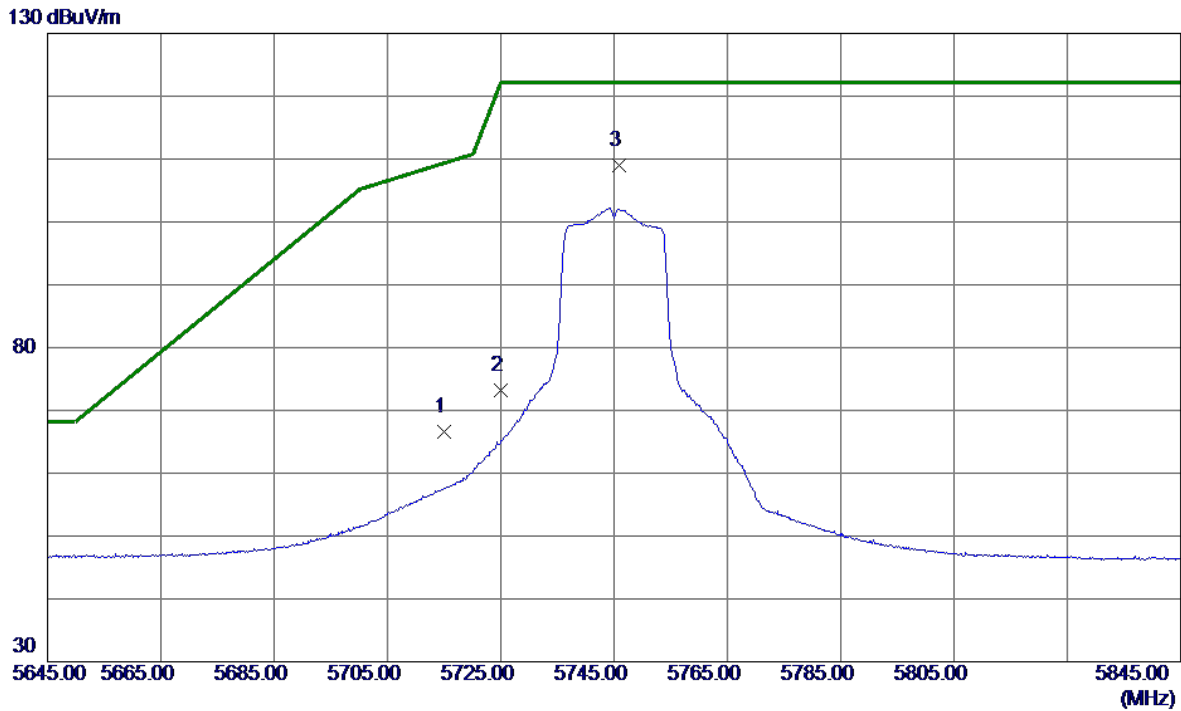


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11649.7600	26.91	14.78	41.69	54.00	-12.31	AVG	
2	11658.7200	37.28	14.79	52.07	74.00	-21.93	Peak	

REMARKS:

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

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

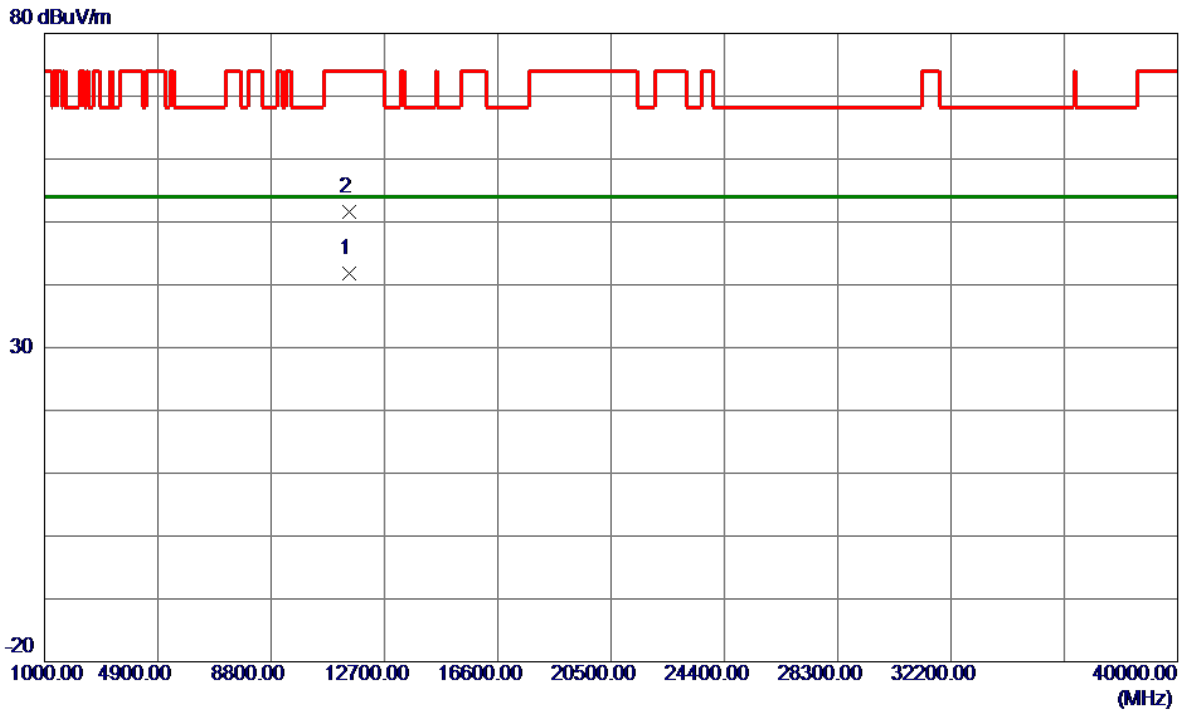


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	49.74	16.79	66.53	109.40	-42.87	Peak	
2	5725.0000	56.31	16.80	73.11	122.20	-49.09	Peak	
3 *	5745.9000	92.22	16.81	109.03	122.20	-13.17	Peak	No Limit

REMARKS:

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

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

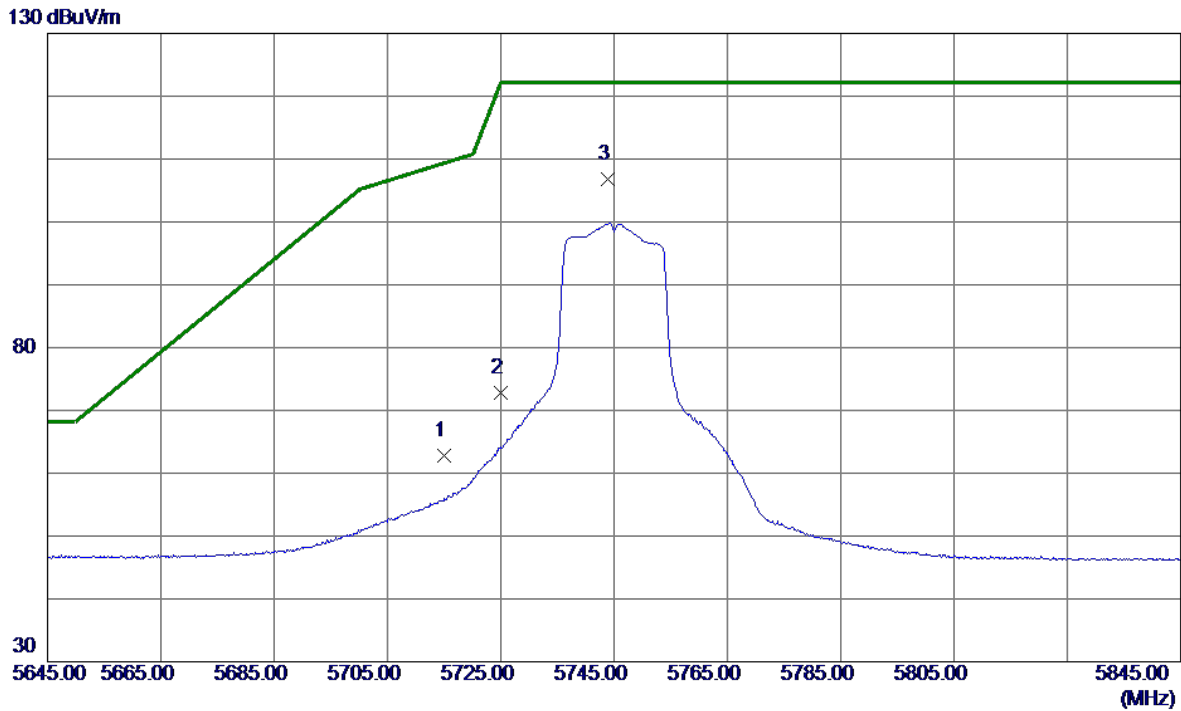


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11483.9200	27.14	14.63	41.77	54.00	-12.23	AVG	
2	11496.5900	37.01	14.65	51.66	74.00	-22.34	Peak	

REMARKS:

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

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

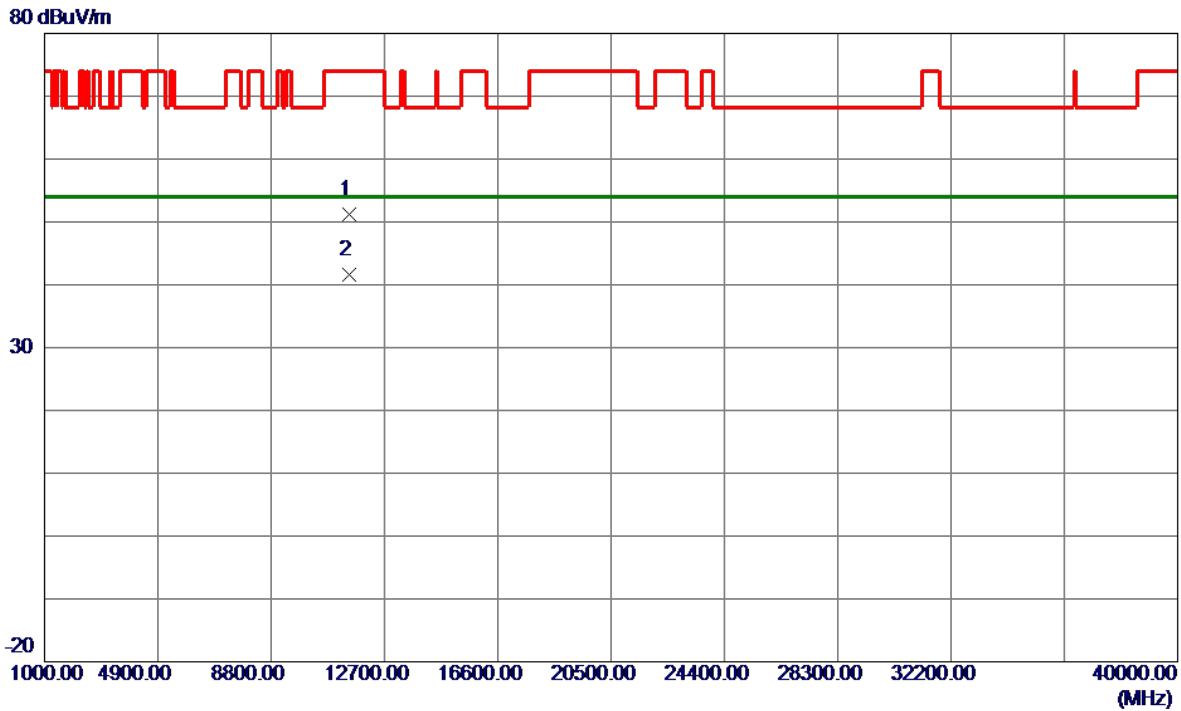


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	45.93	16.79	62.72	109.40	-46.68	Peak	
2	5725.0000	56.00	16.80	72.80	122.20	-49.40	Peak	
3 *	5743.9000	90.01	16.81	106.82	122.20	-15.38	Peak	No Limit

REMARKS:

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

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

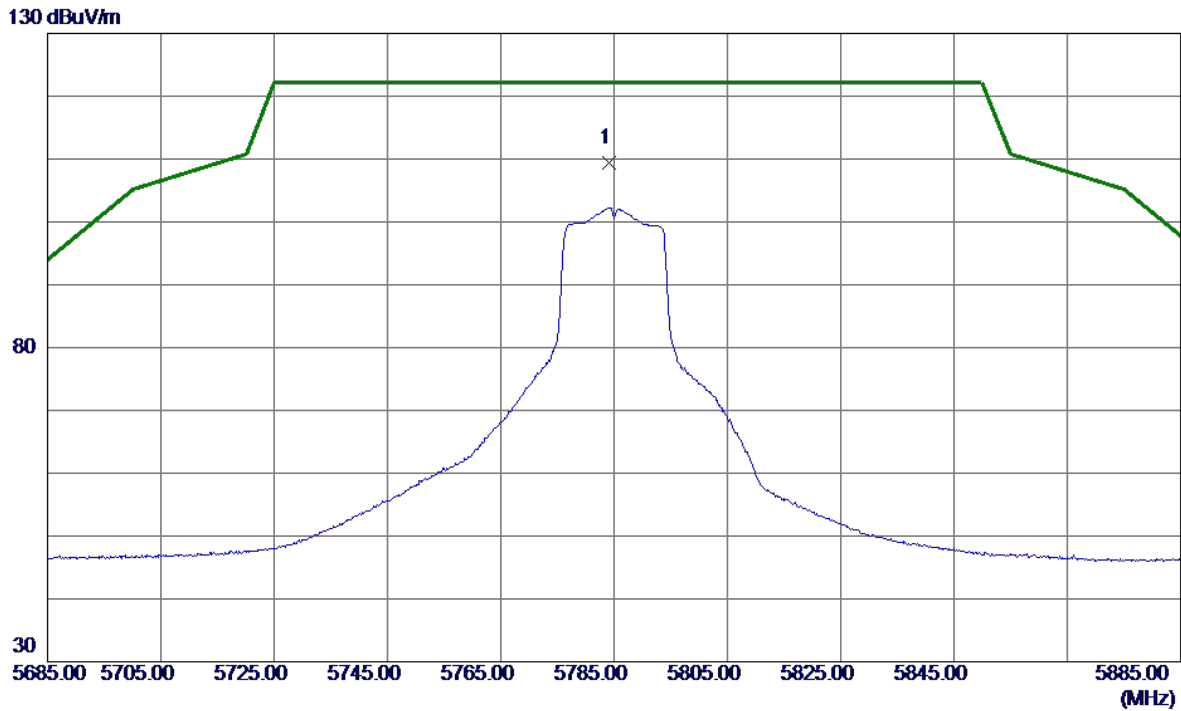


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11486.0199	36.62	14.63	51.25	74.00	-22.75	Peak	
2 *	11487.1900	26.92	14.63	41.55	54.00	-12.45	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

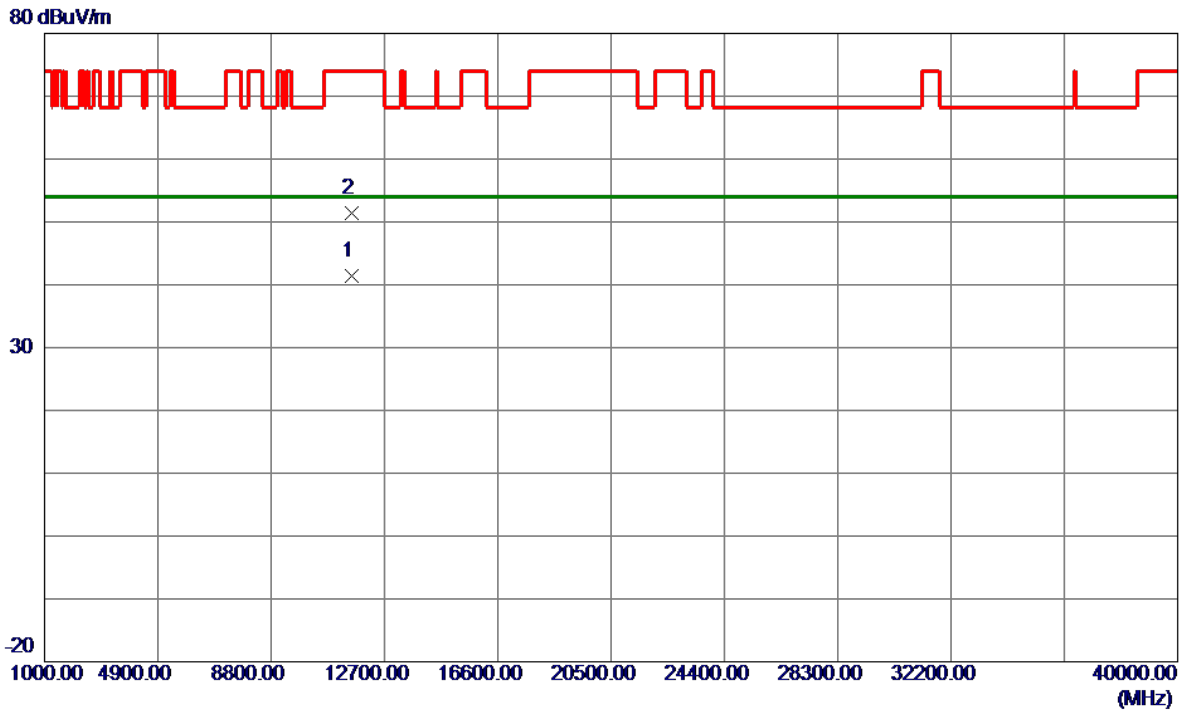


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5784.1000	92.48	16.83	109.31	122.20	-12.89	Peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

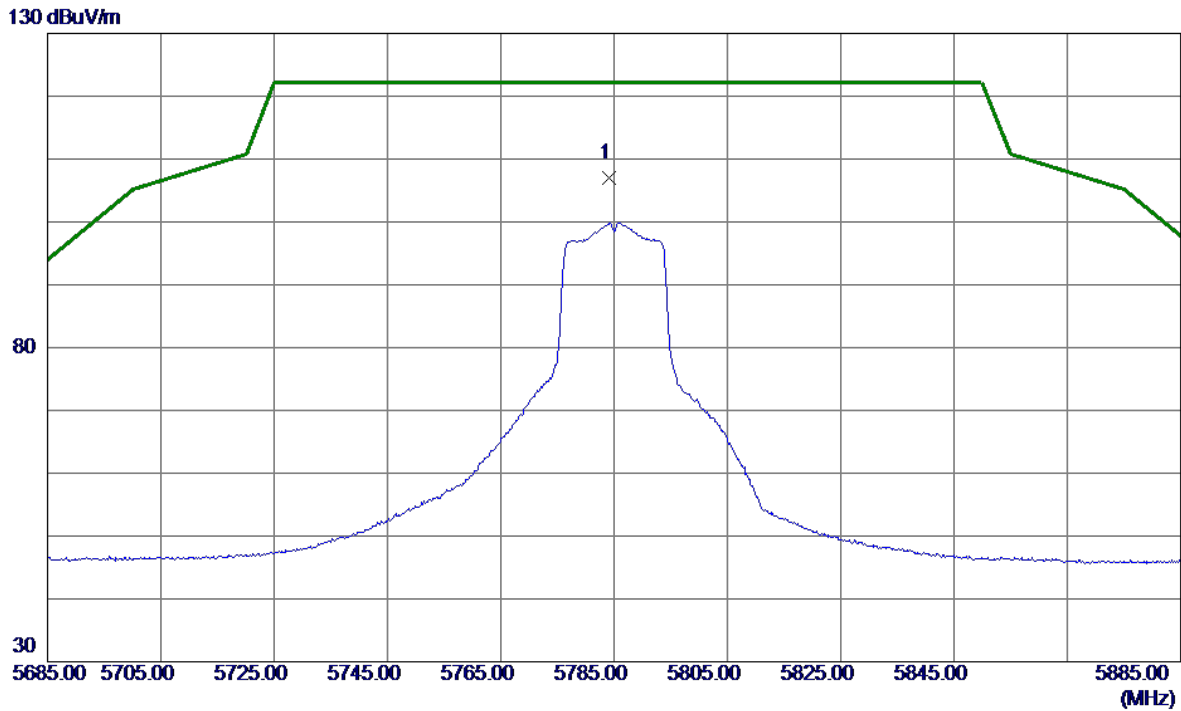


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11562.9700	26.78	14.71	41.49	54.00	-12.51	AVG	
2	11569.0599	36.71	14.71	51.42	74.00	-22.58	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

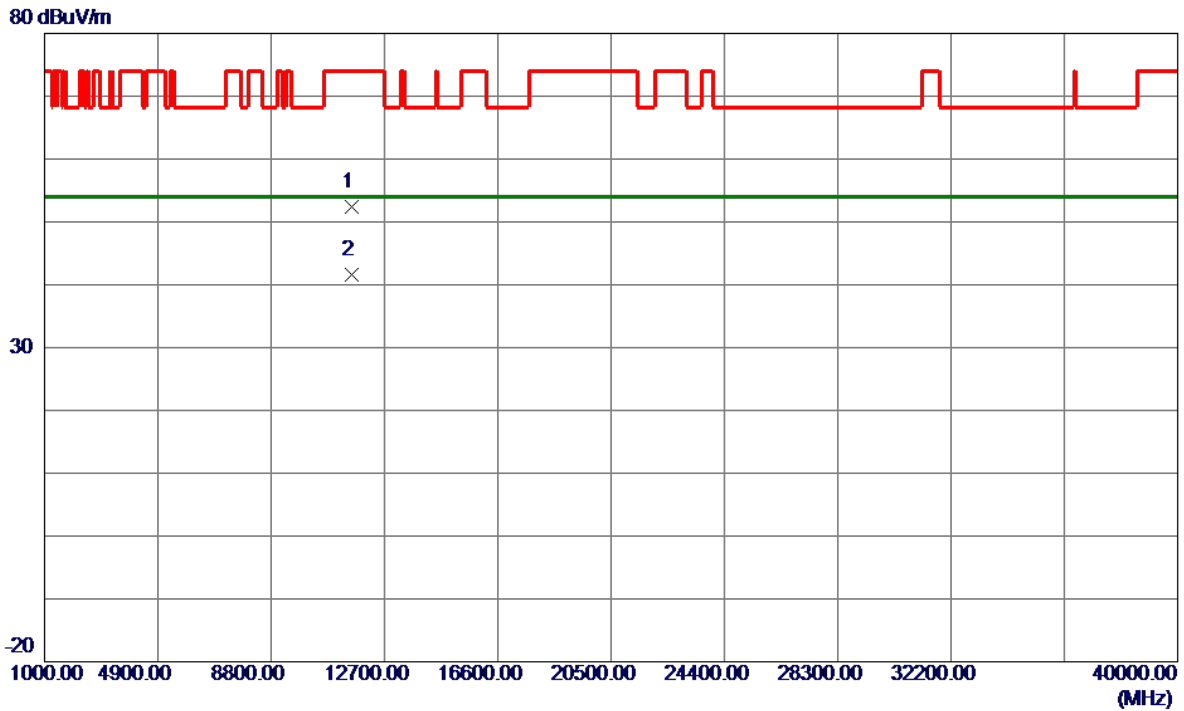


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5784.1000	90.09	16.83	106.92	122.20	-15.28	Peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

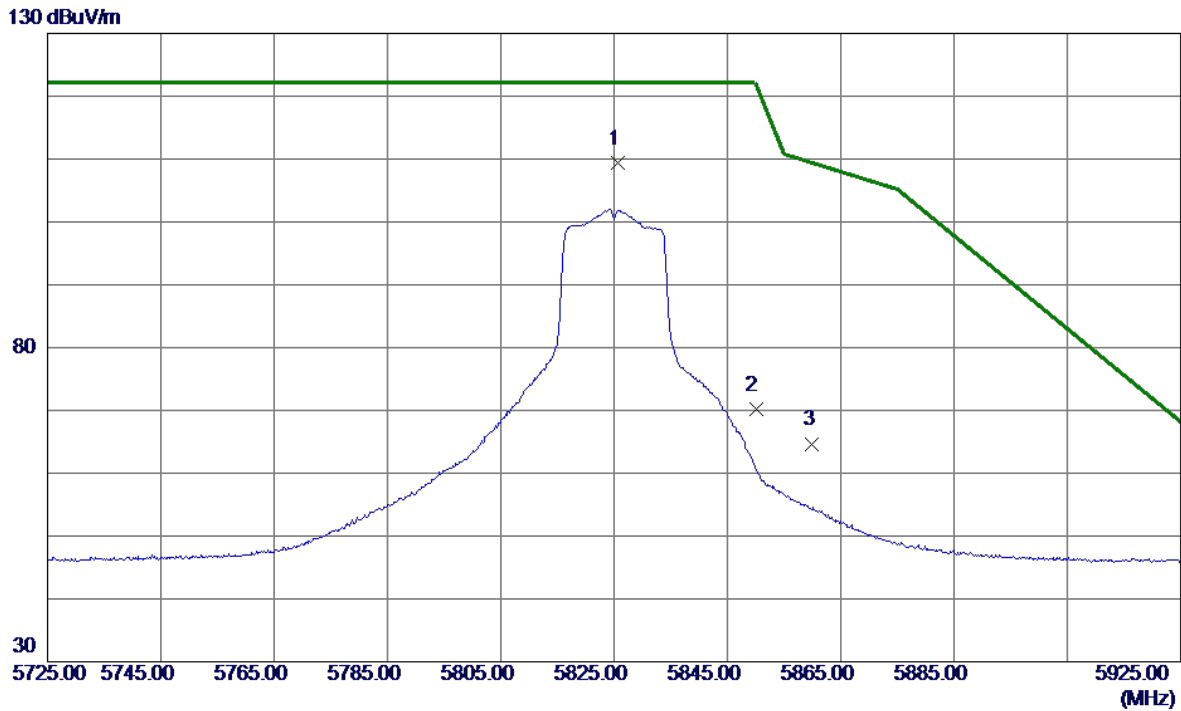


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11561.2400	37.63	14.71	52.34	74.00	-21.66	Peak	
2 *	11568.7000	26.89	14.71	41.60	54.00	-12.40	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

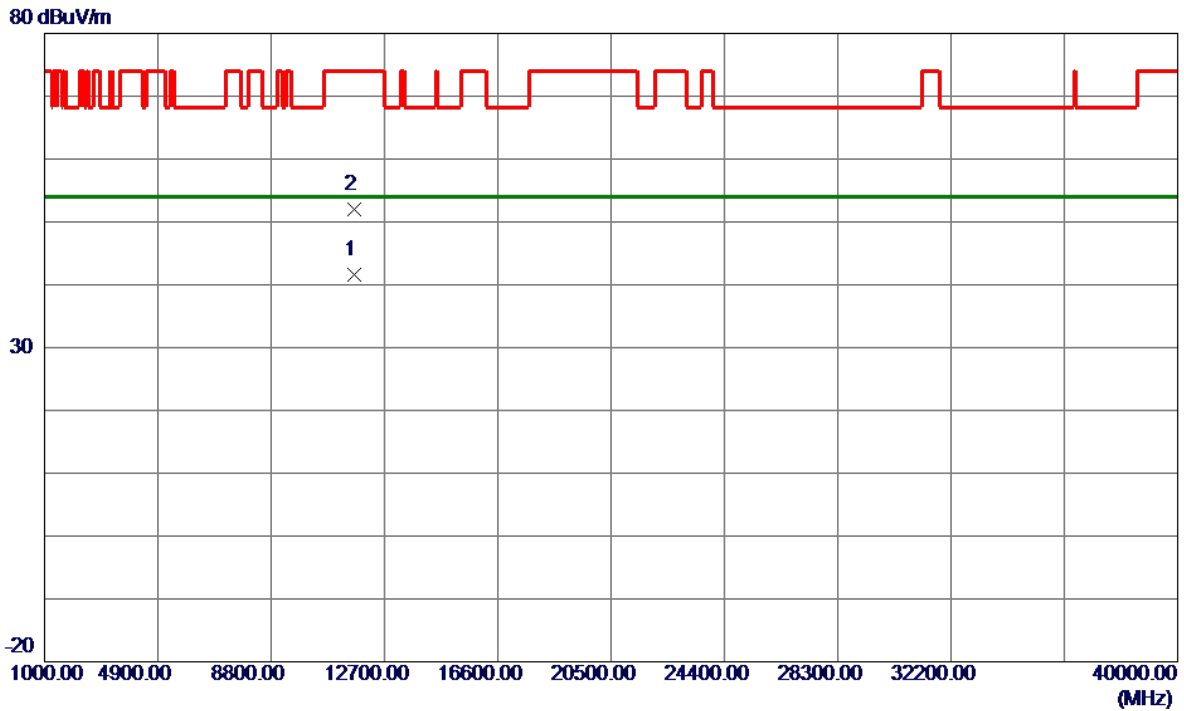


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5825.6000	92.44	16.86	109.30	122.20	-12.90	Peak	No Limit
2	5850.0000	53.23	16.87	70.10	122.20	-52.10	Peak	
3	5860.0000	47.71	16.88	64.59	109.40	-44.81	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

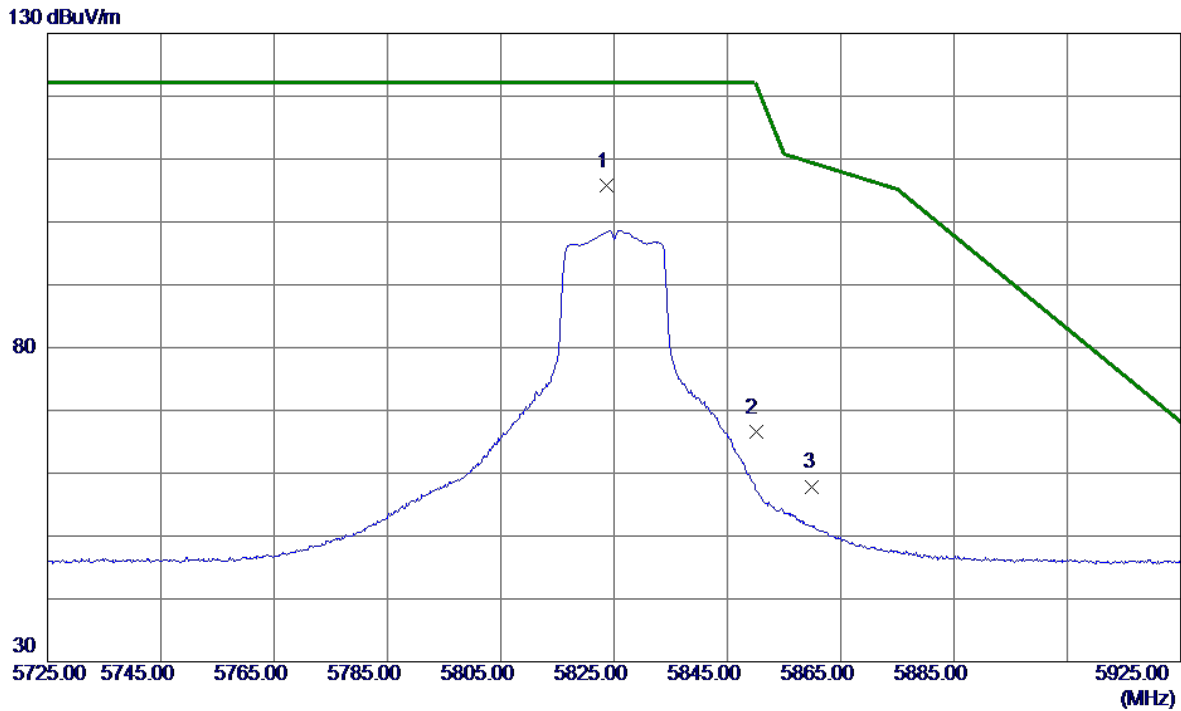


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11646.4900	26.79	14.78	41.57	54.00	-12.43	AVG	
2	11657.8400	37.24	14.79	52.03	74.00	-21.97	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

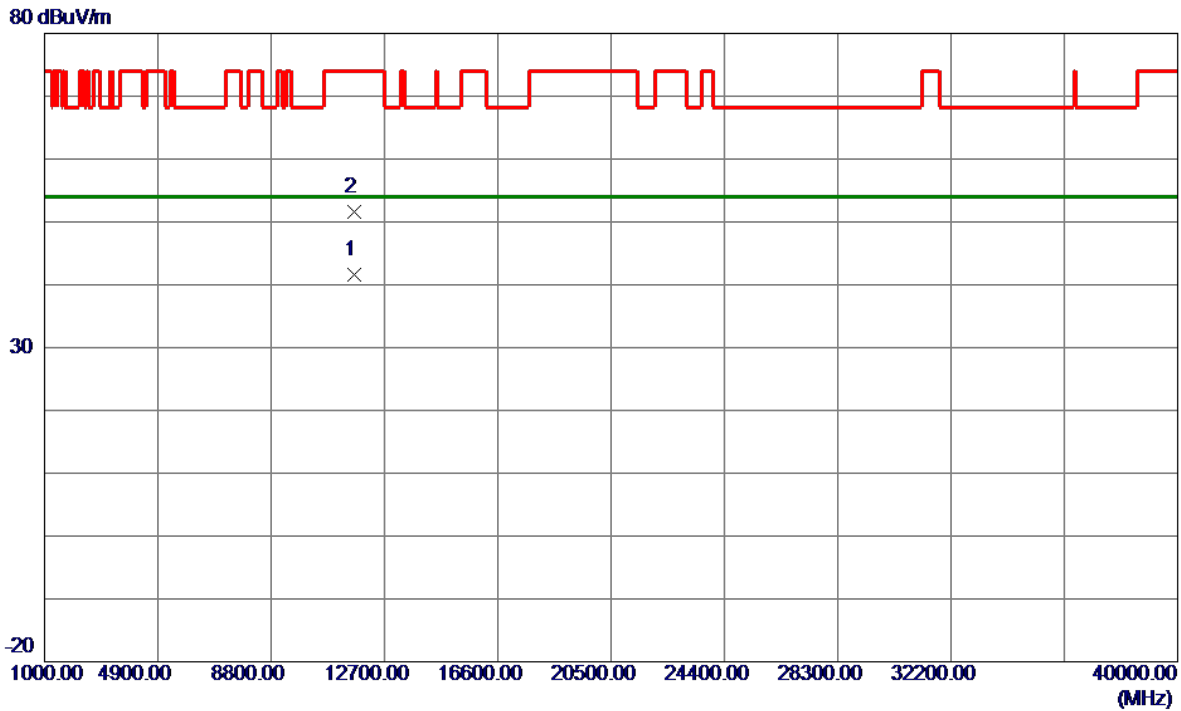


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.6000	88.84	16.86	105.70	122.20	-16.50	Peak	No Limit
2	5850.0000	49.63	16.87	66.50	122.20	-55.70	Peak	
3	5860.0000	40.93	16.88	57.81	109.40	-51.59	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

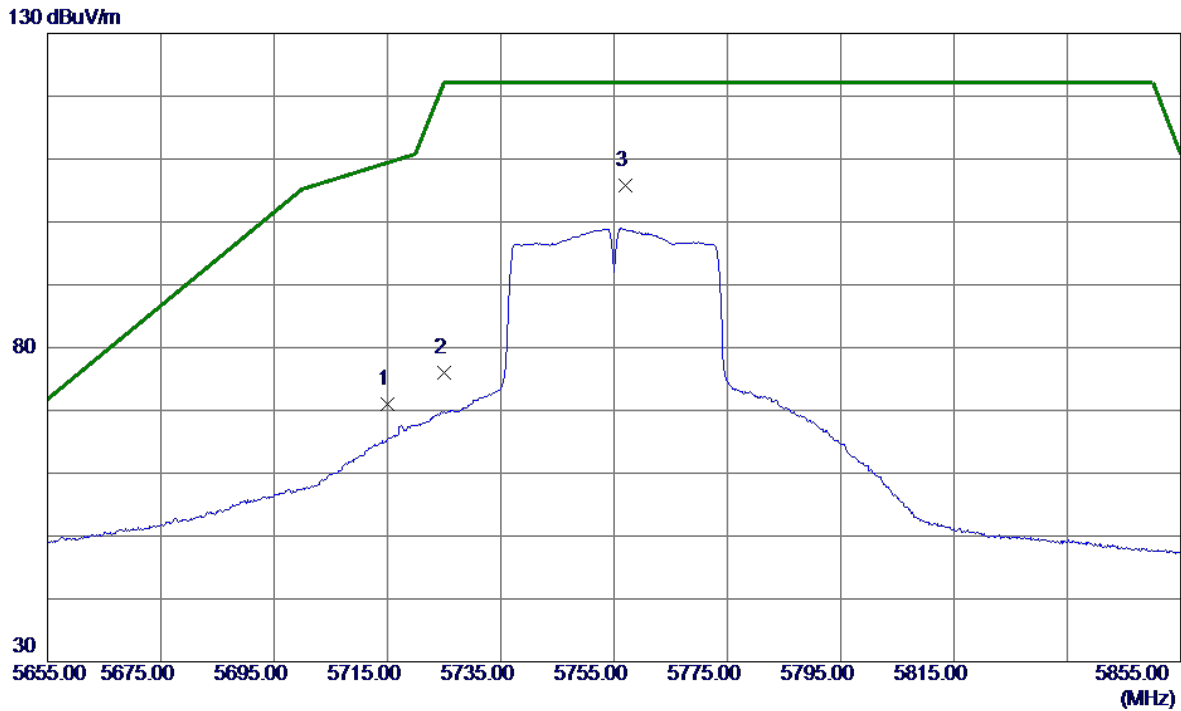


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11655.4300	26.89	14.78	41.67	54.00	-12.33	AVG	
2	11656.7400	36.81	14.79	51.60	74.00	-22.40	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

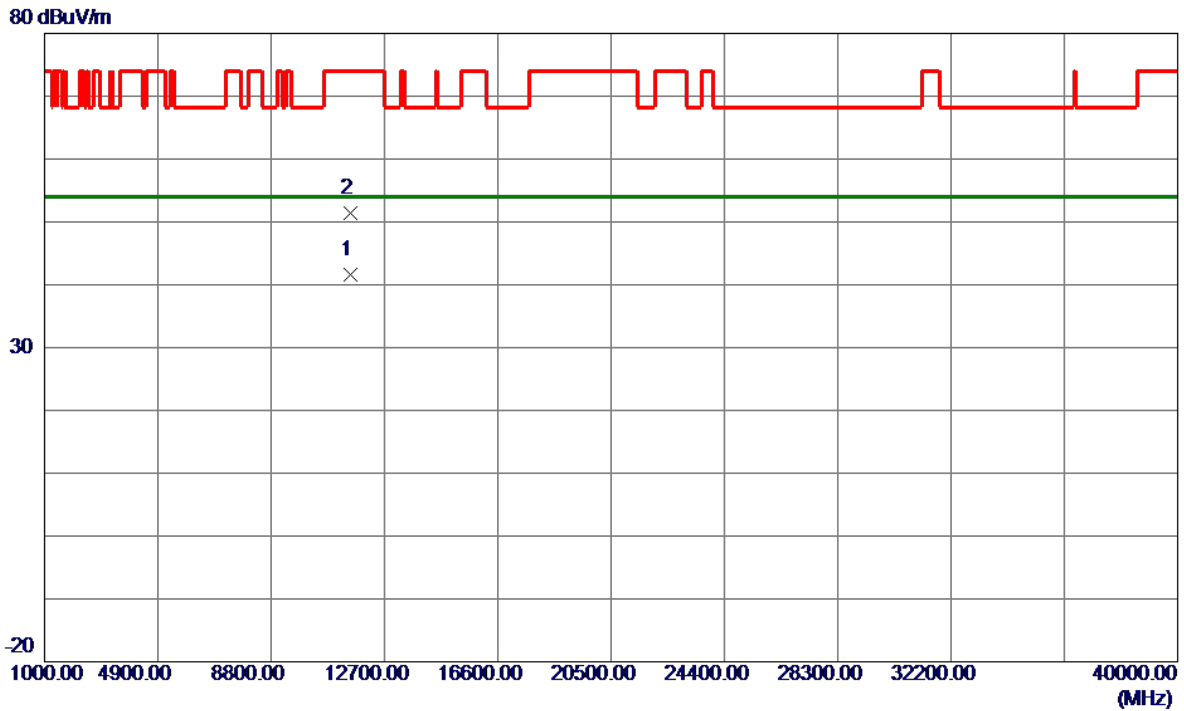


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	54.12	16.79	70.91	109.40	-38.49	Peak	
2	5725.0000	59.13	16.80	75.93	122.20	-46.27	Peak	
3 *	5756.9000	89.04	16.82	105.86	122.20	-16.34	Peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

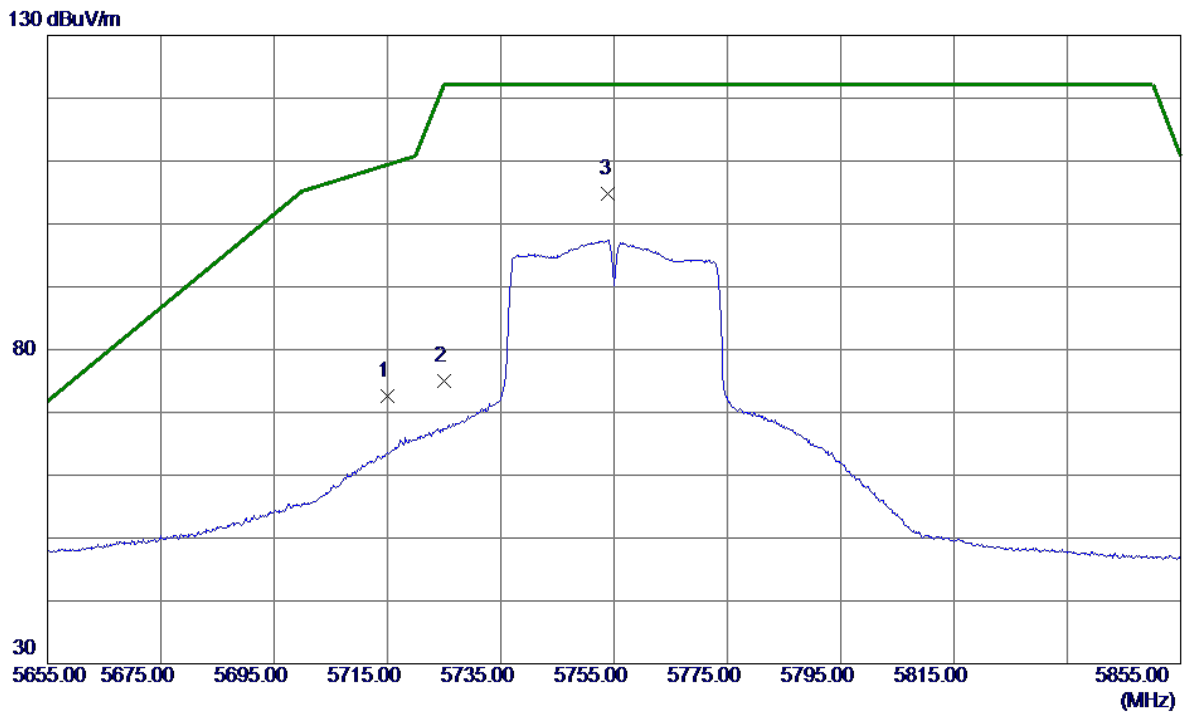


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11514.3300	26.84	14.67	41.51	54.00	-12.49	AVG	
2	11514.4900	36.73	14.67	51.40	74.00	-22.60	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

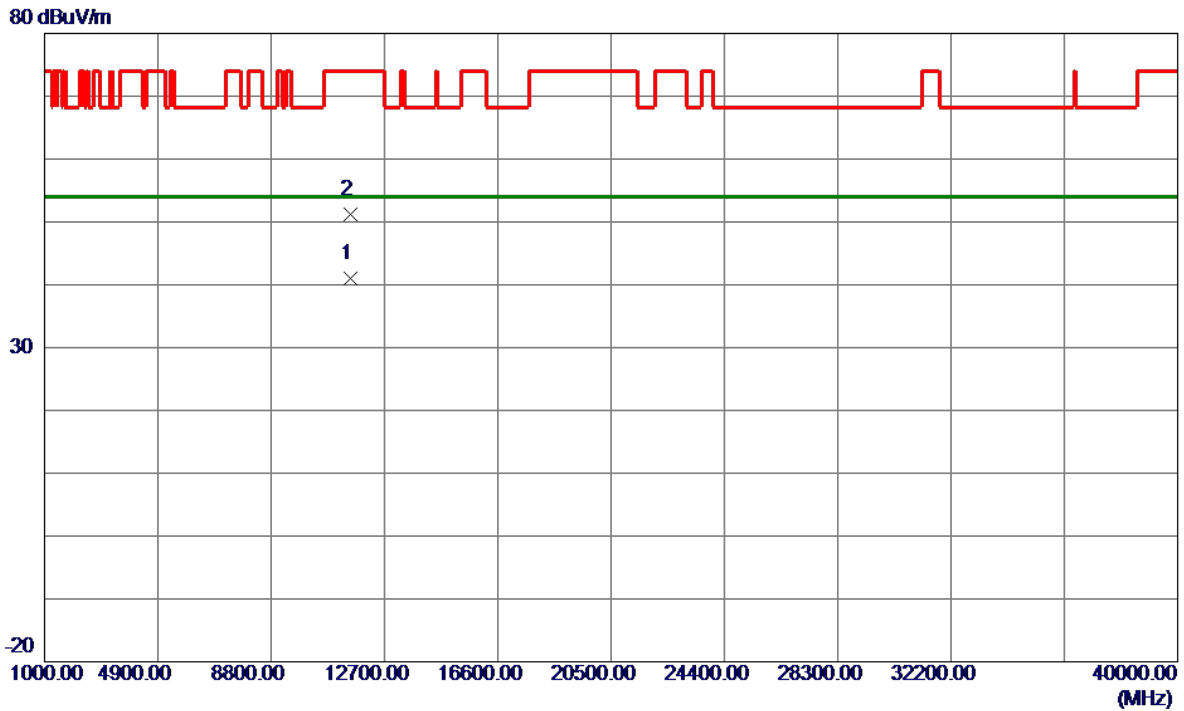


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	55.86	16.79	72.65	109.40	-36.75	Peak	
2	5725.0000	58.15	16.80	74.95	122.20	-47.25	Peak	
3 *	5754.0000	87.94	16.81	104.75	122.20	-17.45	Peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

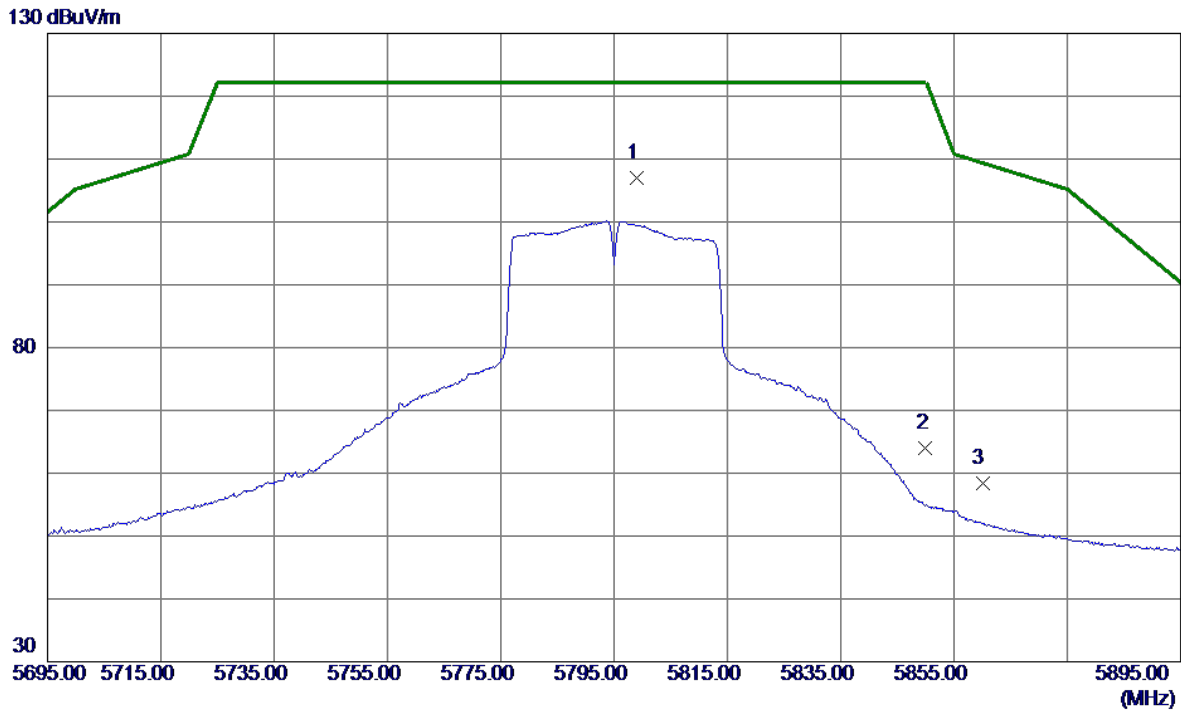


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11508.7900	26.42	14.66	41.08	54.00	-12.92	AVG	
2	11515.0800	36.47	14.67	51.14	74.00	-22.86	Peak	

REMARKS:

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

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

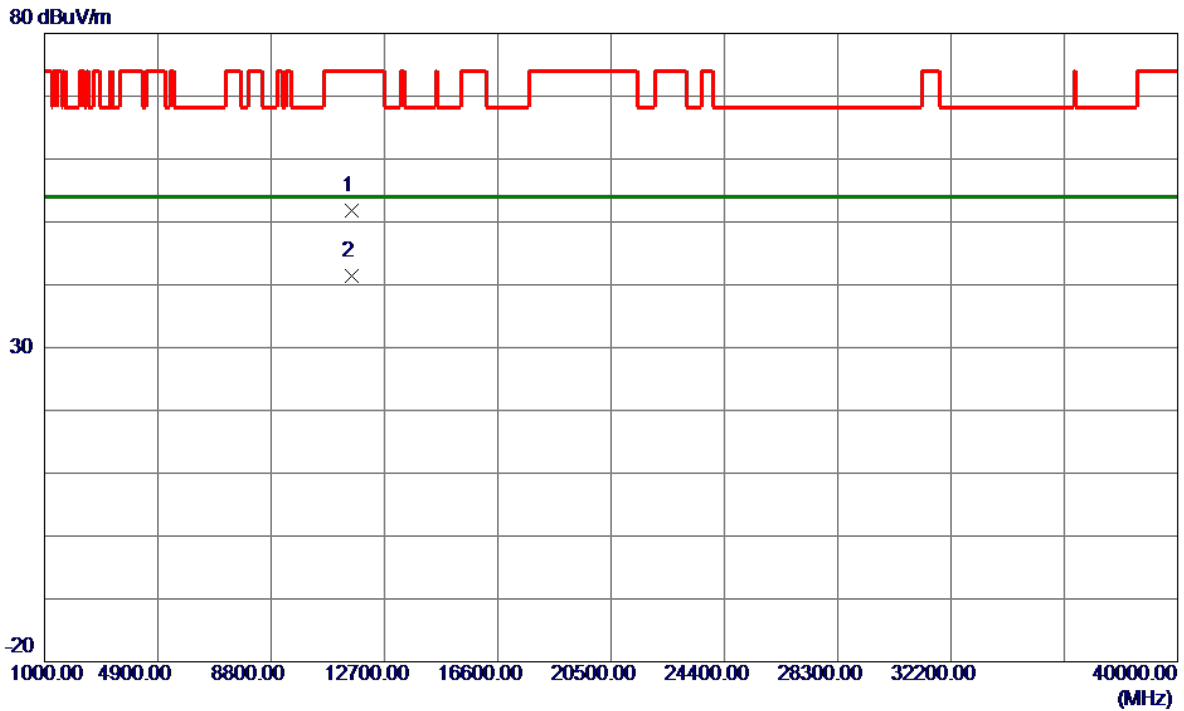


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5799.1000	90.26	16.84	107.10	122.20	-15.10	Peak	No Limit
2	5850.0000	47.05	16.87	63.92	122.20	-58.28	Peak	
3	5860.0000	41.60	16.88	58.48	109.40	-50.92	Peak	

REMARKS:

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

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

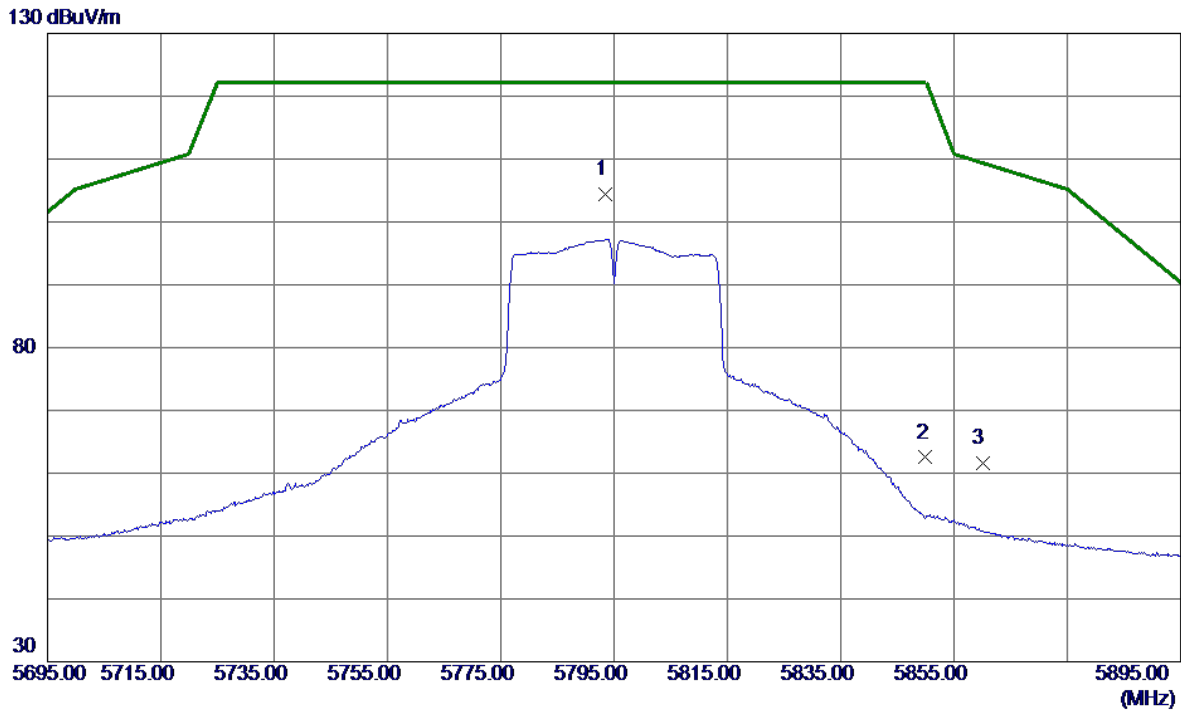


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11584.0300	37.10	14.72	51.82	74.00	-22.18	Peak	
2 *	11584.0800	26.66	14.72	41.38	54.00	-12.62	AVG	

REMARKS:

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

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

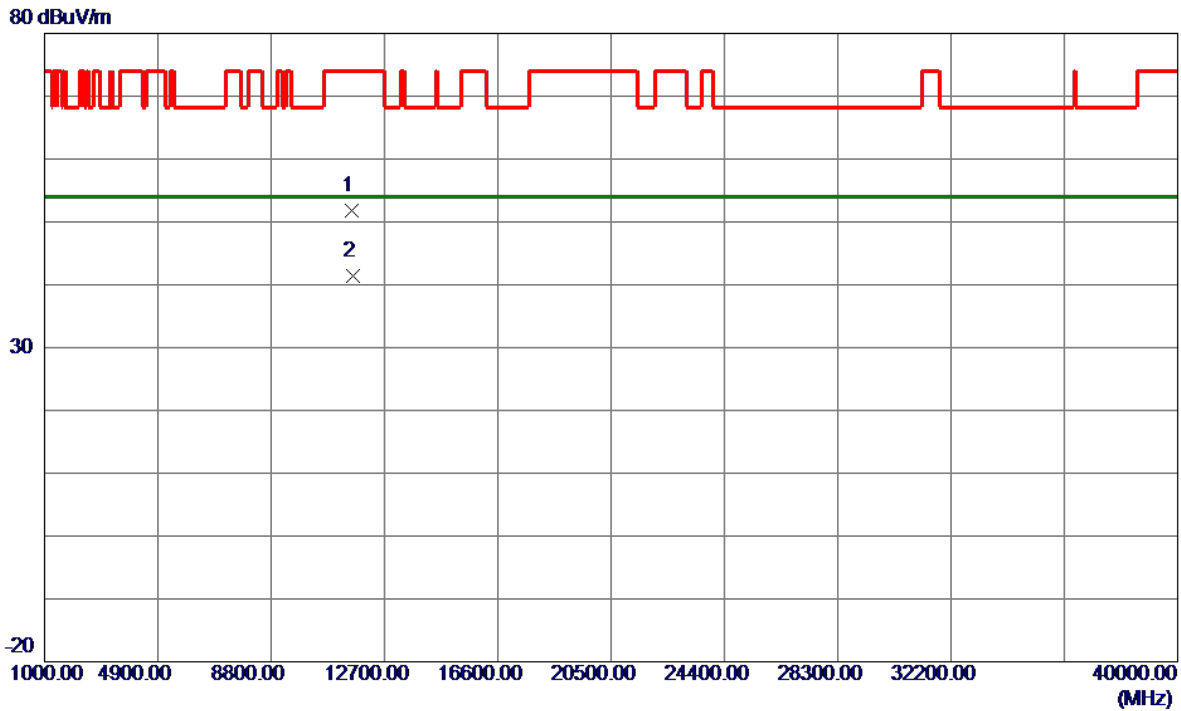


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5793.4000	87.57	16.84	104.41	122.20	-17.79	Peak	No Limit
2	5850.0000	45.63	16.87	62.50	122.20	-59.70	Peak	
3	5860.0000	44.68	16.88	61.56	109.40	-47.84	Peak	

REMARKS:

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

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

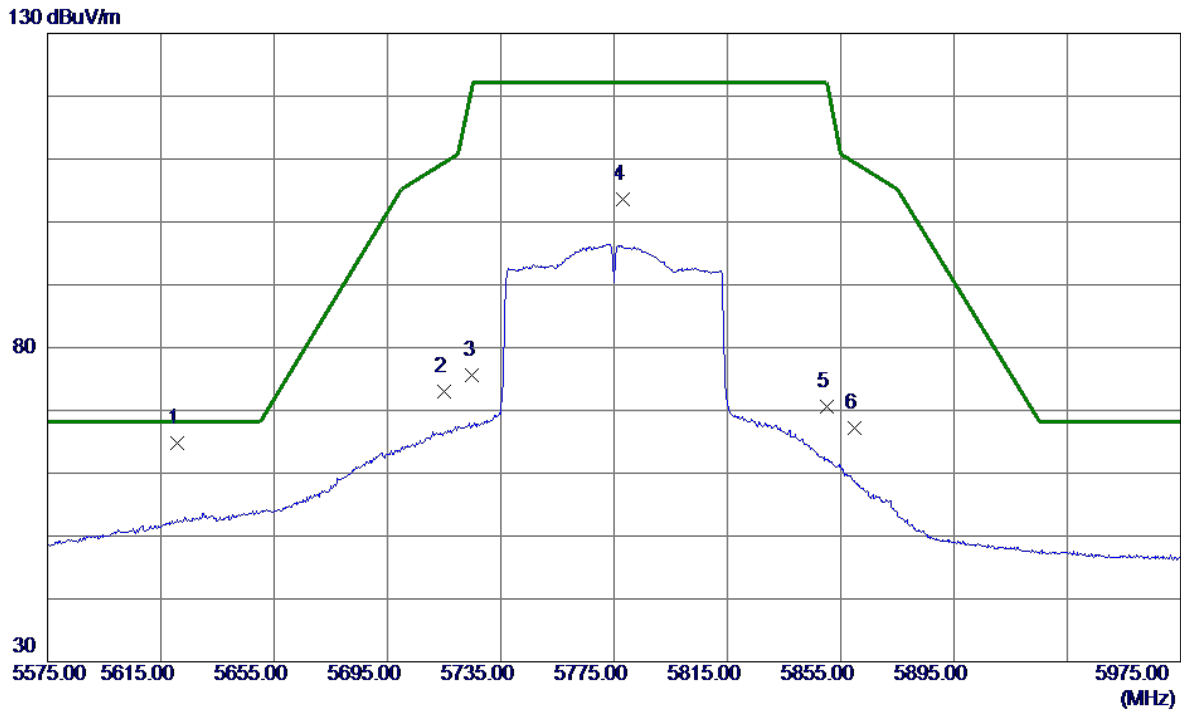


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11581.3300	37.01	14.72	51.73	74.00	-22.27	Peak	
2 *	11597.3000	26.62	14.74	41.36	54.00	-12.64	AVG	

REMARKS:

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

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

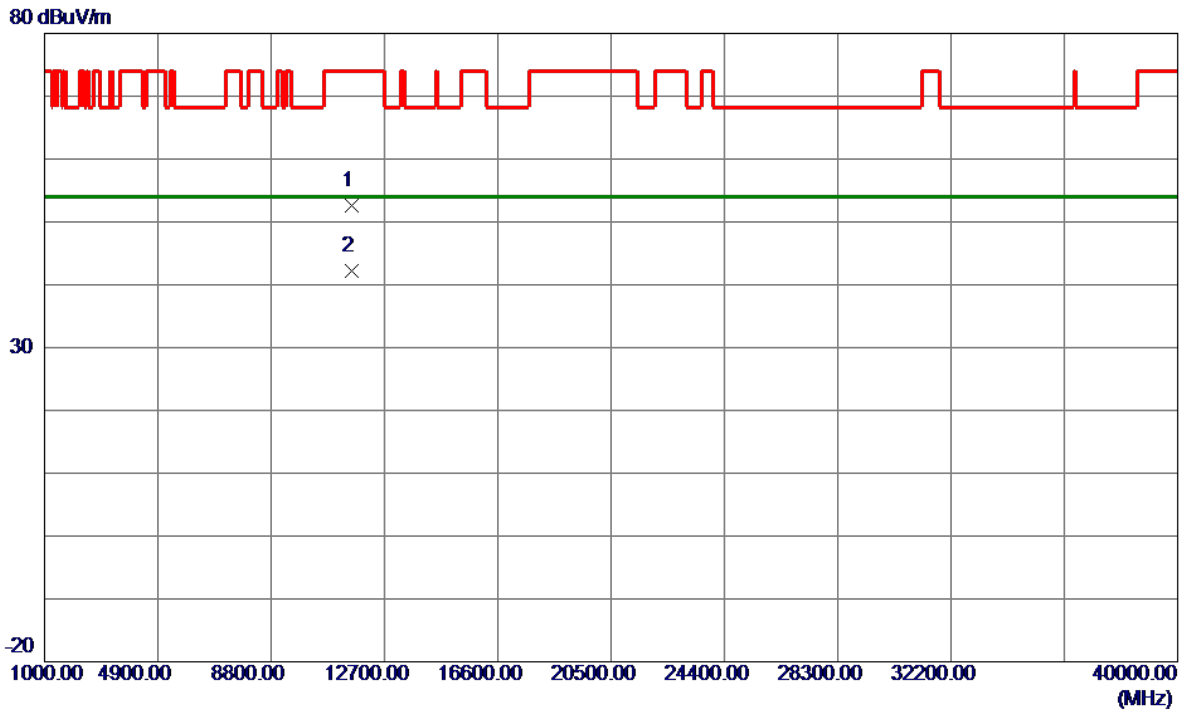


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5620.8000	48.06	16.74	64.80	68.20	-3.40	Peak	
2	5715.0000	56.23	16.79	73.02	109.40	-36.38	Peak	
3	5725.0000	58.85	16.80	75.65	122.20	-46.55	Peak	
4	5778.0000	86.85	16.83	103.68	122.20	-18.52	Peak	No Limit
5	5850.0000	53.77	16.87	70.64	122.20	-51.56	Peak	
6	5860.0000	50.24	16.88	67.12	109.40	-42.28	Peak	

REMARKS:

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

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

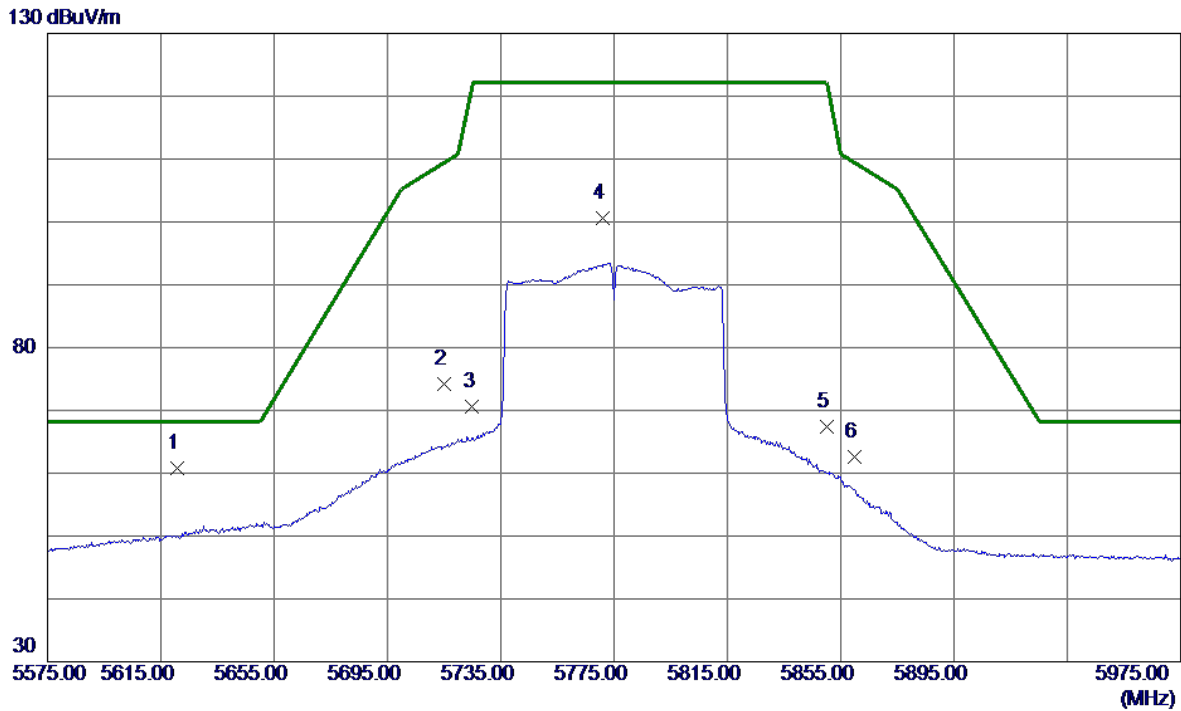


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11552.3200	37.94	14.70	52.64	74.00	-21.36	Peak	
2 *	11552.5400	27.53	14.70	42.23	54.00	-11.77	AVG	

REMARKS:

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

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

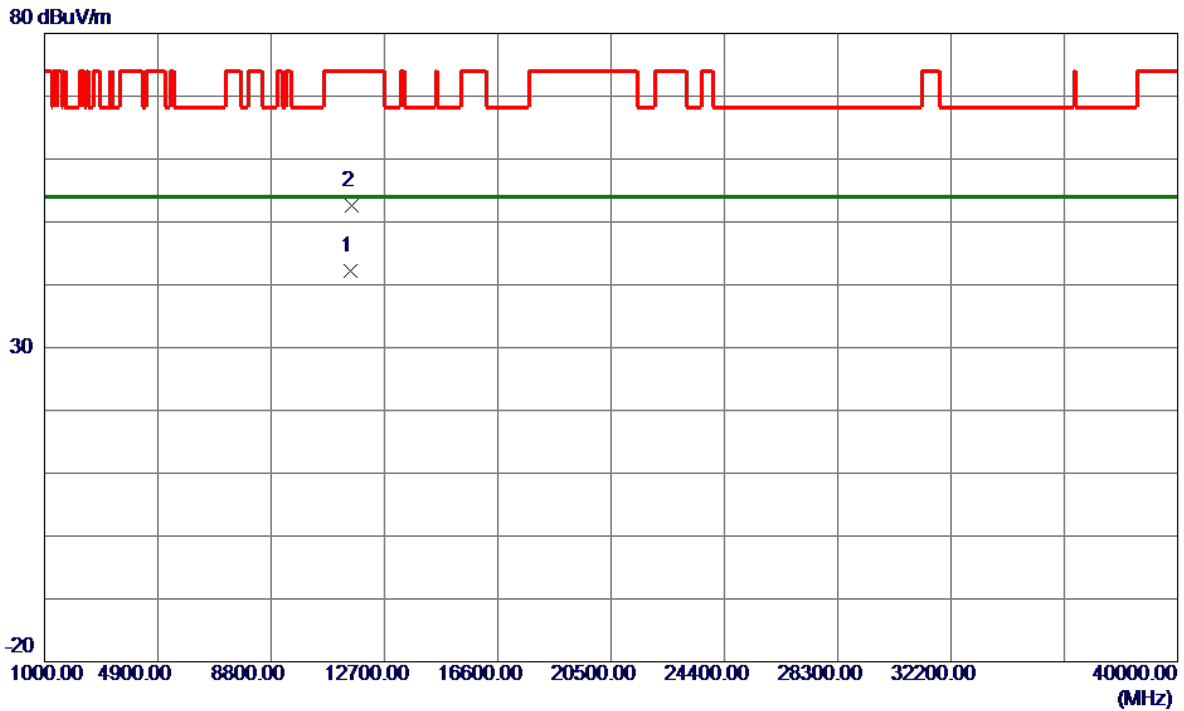


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5620.6000	44.10	16.74	60.84	68.20	-7.36	Peak	
2	5715.0000	57.47	16.79	74.26	109.40	-35.14	Peak	
3	5725.0000	53.80	16.80	70.60	122.20	-51.60	Peak	
4	5771.2000	83.74	16.82	100.56	122.20	-21.64	Peak	No Limit
5	5850.0000	50.61	16.87	67.48	122.20	-54.72	Peak	
6	5860.0000	45.80	16.88	62.68	109.40	-46.72	Peak	

REMARKS:

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11550.5400	27.56	14.70	42.26	54.00	-11.74	AVG	
2	11554.4800	37.91	14.70	52.61	74.00	-21.39	Peak	

REMARKS:

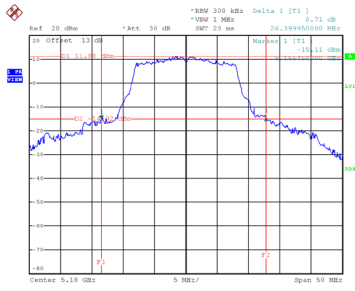
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
-----------	------------------

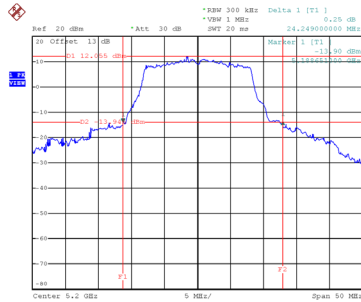
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	26.40	17.50
40	5200	24.25	17.50
48	5240	23.69	17.40

CH36



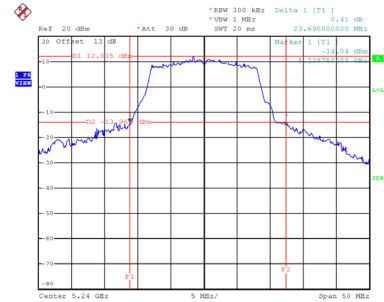
Date: 11.NOV.2021 15:18:22

CH40
26 dB Bandwidth



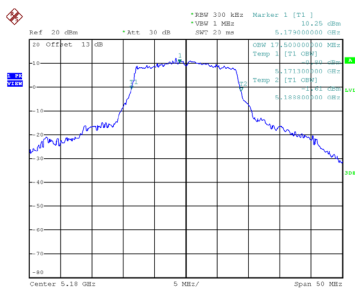
Date: 11.NOV.2021 15:19:13

CH48

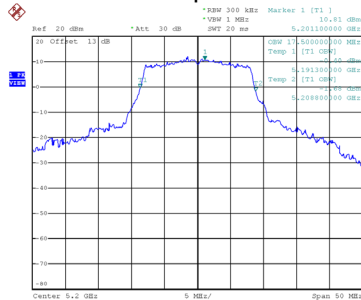


Date: 11.NOV.2021 15:20:13

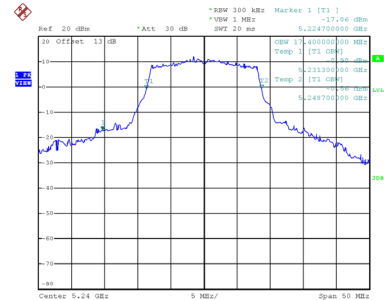
99 % Occupied Bandwidth



Date: 11.NOV.2021 15:18:03



Date: 11.NOV.2021 15:19:15

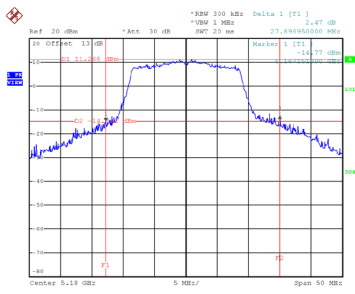


Date: 11.NOV.2021 15:20:13

Test Mode	UNII-1_TX AC(VHT20) Mode
-----------	--------------------------

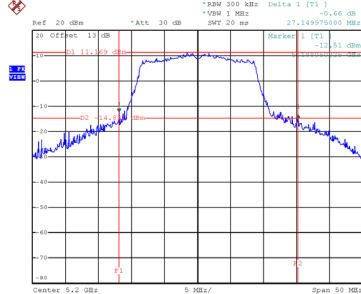
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	27.90	18.60
40	5200	27.15	18.40
48	5240	33.05	18.90

CH36



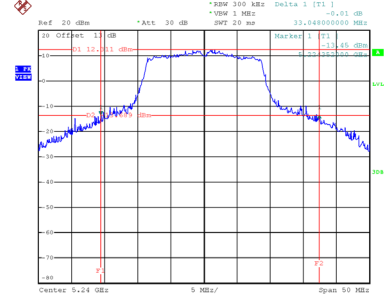
Date: 11.NOV.2021 15:27:22

CH40 26 dB Bandwidth



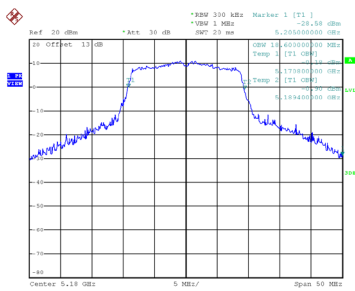
Date: 11.NOV.2021 15:29:06

CH48

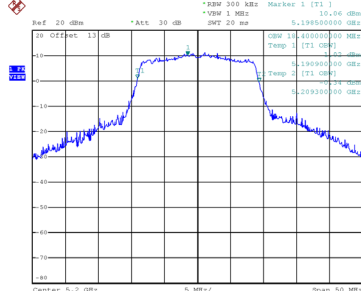


Date: 11.NOV.2021 15:30:34

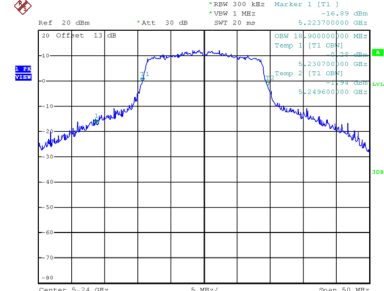
99 % Occupied Bandwidth



Date: 11.NOV.2021 15:27:04



Date: 11.NOV.2021 15:28:48

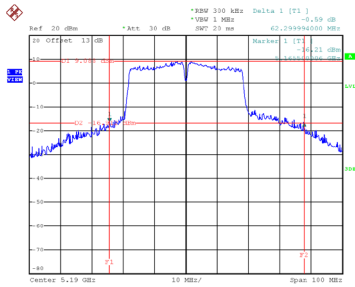


Date: 11.NOV.2021 15:30:19

Test Mode	UNII-1_TX AC(VHT40) Mode
-----------	--------------------------

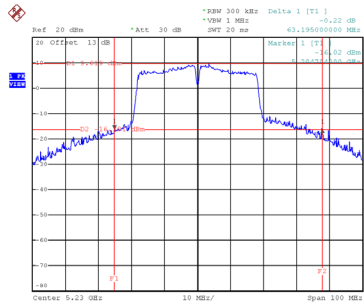
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
38	5190	62.30	38.00
46	5230	63.20	38.40

CH38

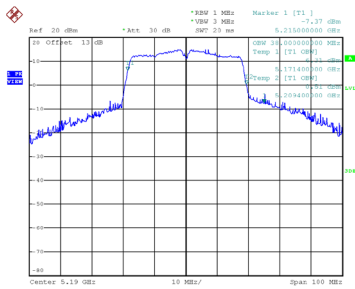


Date: 11.NOV.2021 15:40:07

CH46 26 dB Bandwidth

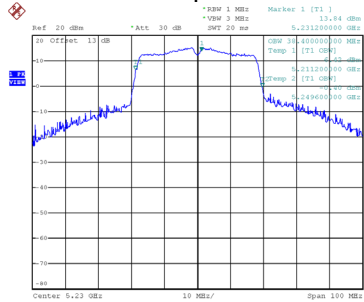


Date: 11.NOV.2021 15:41:29



Date: 11.NOV.2021 15:39:39

99 % Occupied Bandwidth

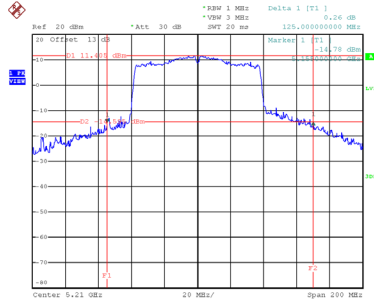


Date: 11.NOV.2021 15:41:06

Test Mode	UNII-1_TX AC(VHT80) Mode
-----------	--------------------------

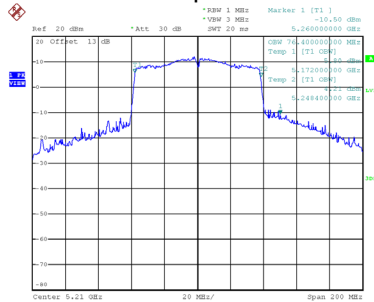
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
42	5210	125.00	76.40

CH42 26 dB Bandwidth



Date: 11.NOV.2021 15:47:16

99 % Occupied Bandwidth

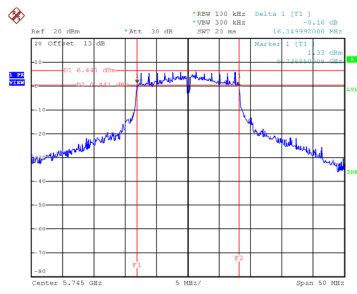


Date: 11.NOV.2021 15:46:58

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

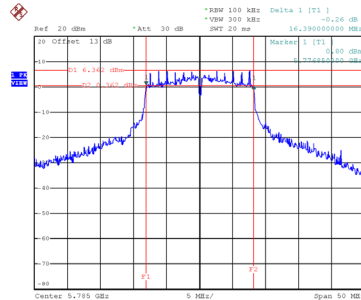
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	16.35	17.90	0.50	Complies
157	5785	16.39	18.10	0.50	Complies
165	5825	16.35	19.70	0.50	Complies

CH149



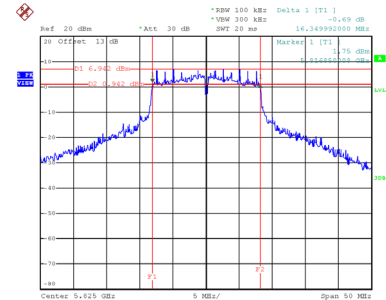
Date: 11.NOV.2021 15:21:38

CH157
6 dB Bandwidth



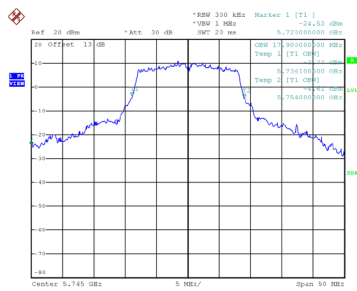
Date: 11.NOV.2021 15:22:43

CH165

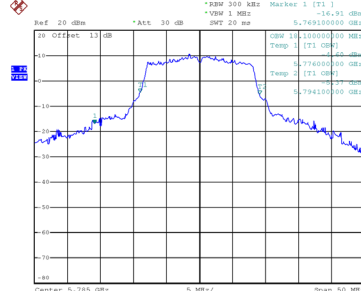


Date: 11.NOV.2021 15:24:14

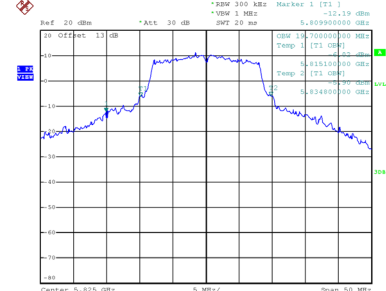
99 % Occupied Bandwidth



Date: 11.NOV.2021 15:21:16



Date: 11.NOV.2021 15:22:19

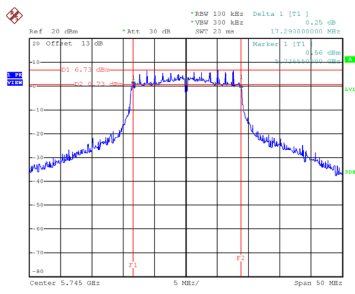


Date: 11.NOV.2021 15:23:50

Test Mode UNII-3_TX AC(VHT20) Mode

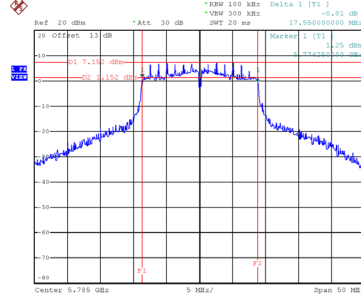
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	17.29	18.70	0.50	Complies
157	5785	17.55	19.50	0.50	Complies
165	5825	17.00	19.70	0.50	Complies

CH149



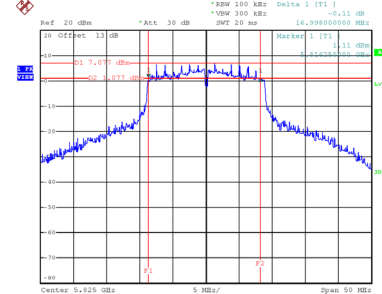
Date: 11.NOV.2021 15:32:25

CH157
6 dB Bandwidth



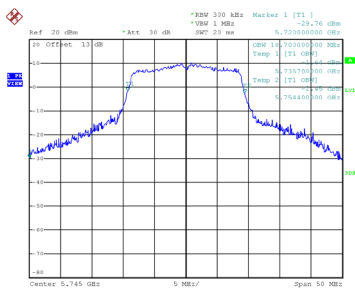
Date: 11.NOV.2021 15:33:15

CH165

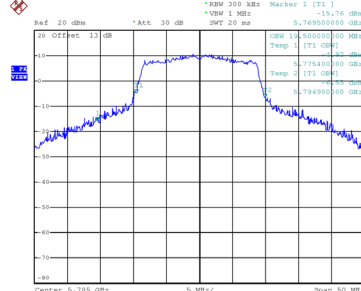


Date: 11.NOV.2021 15:34:17

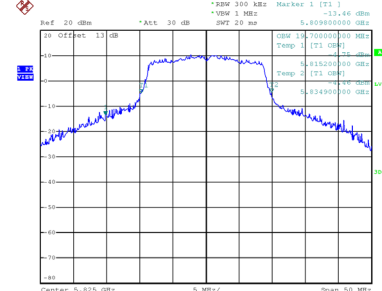
99 % Occupied Bandwidth



Date: 11.NOV.2021 15:32:03



Date: 11.NOV.2021 15:33:12

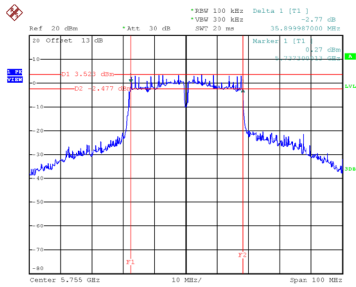


Date: 11.NOV.2021 15:34:14

Test Mode	UNII-3_TX AC(VHT40) Mode
-----------	--------------------------

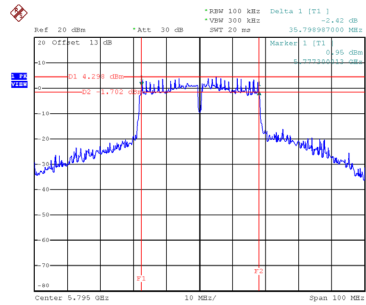
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
151	5755	35.90	37.80	0.50	Complies
159	5795	35.80	41.00	0.50	Complies

CH151

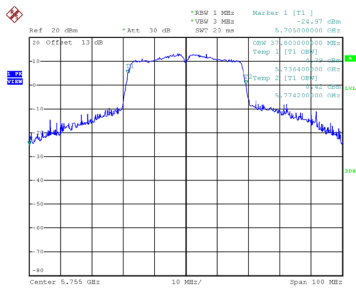


Date: 11.NOV.2021 15:43:03

CH159 6 dB Bandwidth

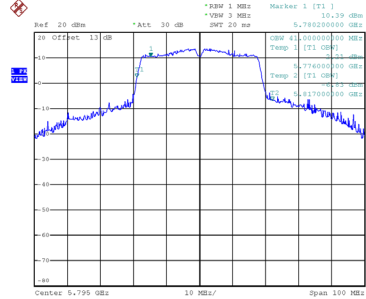


Date: 11.NOV.2021 15:44:48



Date: 11.NOV.2021 15:42:34

99 % Occupied Bandwidth

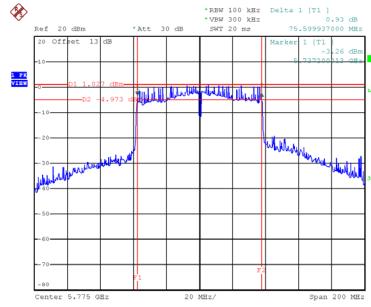


Date: 11.NOV.2021 15:44:19

Test Mode	UNII-3_TX AC(VHT80) Mode
-----------	--------------------------

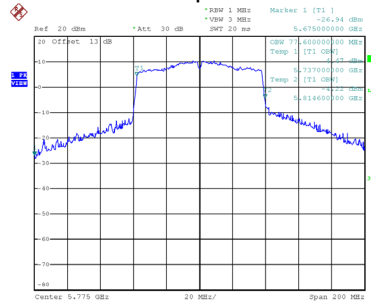
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
155	5775	75.60	77.60	0.50	Complies

CH155 6 dB Bandwidth



Date: 11.NOV.2021 15:48:01

99 % Occupied Bandwidth



Date: 11.NOV.2021 15:48:02

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	UNII-1_TX A Mode
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.78	0.12	14.90	23.98	0.2500	Complies
40	5200	16.95	0.12	17.07	23.98	0.2500	Complies
48	5240	16.79	0.12	16.91	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	15.33	0.16	15.49	23.98	0.2500	Complies
40	5200	16.61	0.16	16.77	23.98	0.2500	Complies
48	5240	17.31	0.16	17.47	23.98	0.2500	Complies

Test Mode	UNII-1_TX N(HT40) Mode
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.64	0.29	13.93	23.98	0.2500	Complies
46	5230	17.41	0.29	17.70	23.98	0.2500	Complies

Test Mode	UNII-1_TX AC(VHT20) Mode
-----------	--------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	15.37	0.13	15.50	23.98	0.2500	Complies
40	5200	16.66	0.13	16.79	23.98	0.2500	Complies
48	5240	17.44	0.13	17.57	23.98	0.2500	Complies

Test Mode	UNII-1_TX AC(VHT40) Mode
-----------	--------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.67	0.29	13.96	23.98	0.2500	Complies
46	5230	17.46	0.29	17.75	23.98	0.2500	Complies

Test Mode	UNII-1_TX AC(VHT80) Mode
-----------	--------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	11.55	0.50	12.05	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	17.08	0.12	17.20	30.00	1.0000	Complies
157	5785	16.79	0.12	16.91	30.00	1.0000	Complies
165	5825	17.35	0.12	17.47	30.00	1.0000	Complies

Test Mode	UNII-3_TX N(HT20) Mode
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	16.71	0.16	16.87	30.00	1.0000	Complies
157	5785	17.34	0.16	17.50	30.00	1.0000	Complies
165	5825	17.11	0.16	17.27	30.00	1.0000	Complies

Test Mode	UNII-3_TX N(HT40) Mode
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	16.92	0.29	17.21	30.00	1.0000	Complies
159	5795	17.12	0.29	17.41	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT20) Mode
-----------	--------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	16.78	0.13	16.91	30.00	1.0000	Complies
157	5785	17.39	0.13	17.52	30.00	1.0000	Complies
165	5825	17.15	0.13	17.28	30.00	1.0000	Complies

Test Mode	UNII-3_TX AC(VHT40) Mode
-----------	--------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	17.13	0.29	17.42	30.00	1.0000	Complies
159	5795	17.42	0.29	17.71	30.00	1.0000	Complies

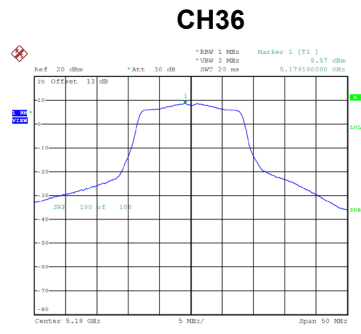
Test Mode	UNII-3_TX AC(VHT80) Mode
-----------	--------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	17.14	0.50	17.64	30.00	1.0000	Complies

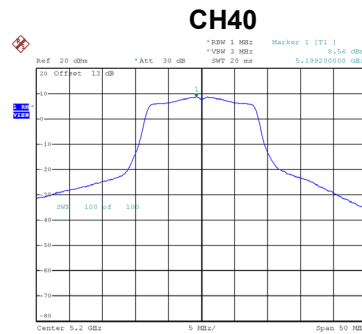
APPENDIX G - POWER SPECTRAL DENSITY

Test Mode	UNII-1_TX A Mode
-----------	------------------

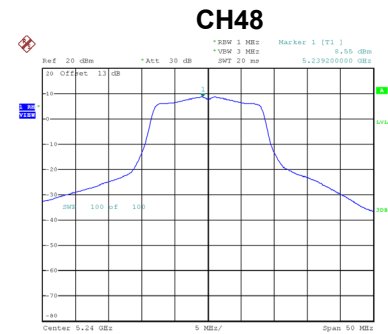
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.57	0.12	8.69	11.00	Complies
40	5200	8.56	0.12	8.68	11.00	Complies
48	5240	8.55	0.12	8.67	11.00	Complies



Date: 11.NOV.2021 15:18:35



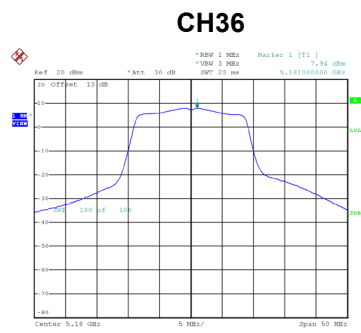
Date: 11.NOV.2021 15:19:47



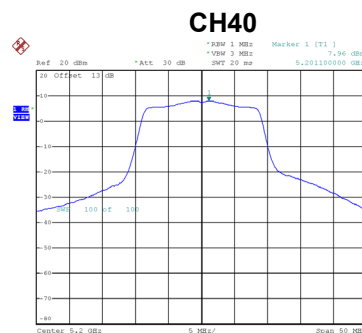
Date: 11.NOV.2021 15:27:50

Test Mode	UNII-1_TX AC(VHT20) Mode
-----------	--------------------------

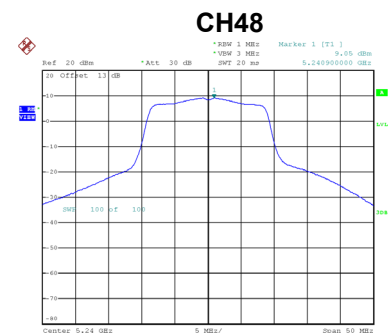
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	7.94	0.13	8.07	11.00	Complies
40	5200	7.96	0.13	8.09	11.00	Complies
48	5240	9.05	0.13	9.18	11.00	Complies



Date: 11.NOV.2021 15:27:36



Date: 11.NOV.2021 15:29:19

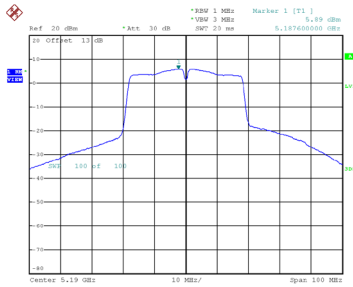


Date: 11.NOV.2021 15:30:48

Test Mode UNII-1_TX AC(VHT40) Mode

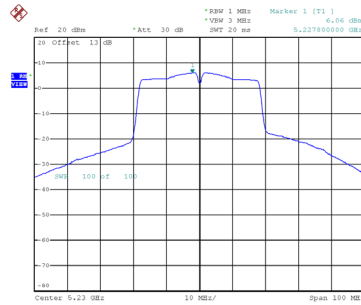
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	5.89	0.29	6.18	11.00	Complies
46	5230	6.06	0.29	6.35	11.00	Complies

CH38



Date: 11.NOV.2021 15:40:27

CH46

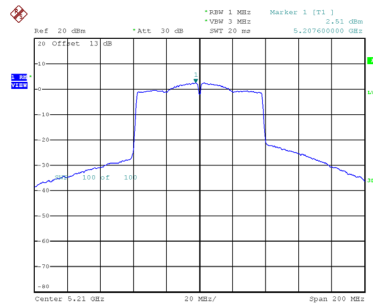


Date: 11.NOV.2021 15:41:48

Test Mode UNII-1_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	2.51	0.50	3.01	11.00	Complies

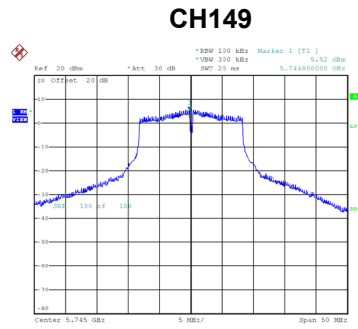
CH42



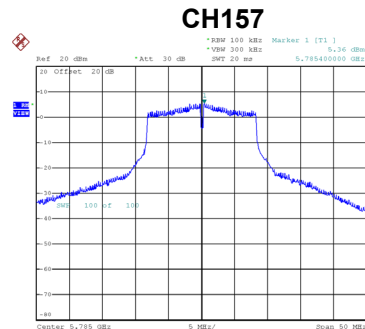
Date: 11.NOV.2021 15:47:35

Test Mode UNII-3_TX A Mode

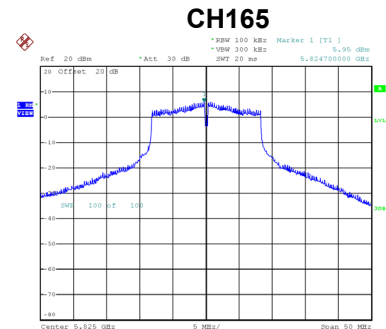
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	5.52	0.12	5.64	30.00	Complies
157	5785	5.36	0.12	5.48	30.00	Complies
165	5825	5.95	0.12	6.07	30.00	Complies



Date: 11.NOV.2021 15:21:52



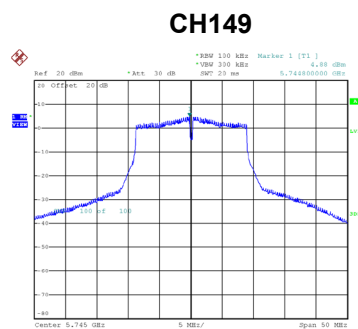
Date: 11.NOV.2021 15:22:17



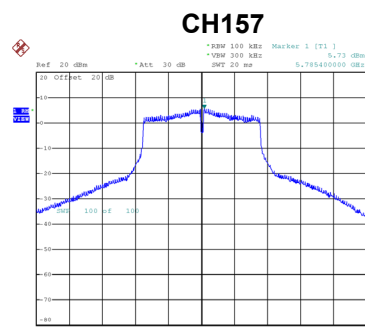
Date: 11.NOV.2021 15:24:27

Test Mode UNII-3_TX AC(VHT20) Mode

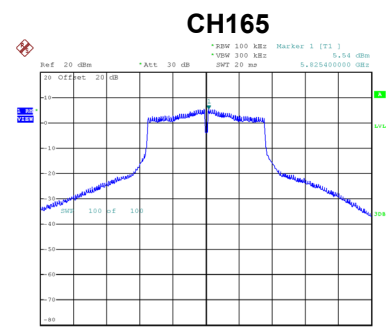
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	4.88	0.13	5.01	30.00	Complies
157	5785	5.73	0.13	5.86	30.00	Complies
165	5825	5.54	0.13	5.67	30.00	Complies



Date: 11.NOV.2021 15:32:39



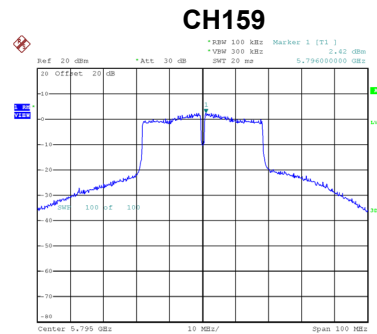
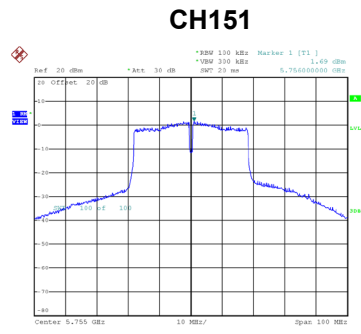
Date: 11.NOV.2021 15:33:49



Date: 11.NOV.2021 15:34:50

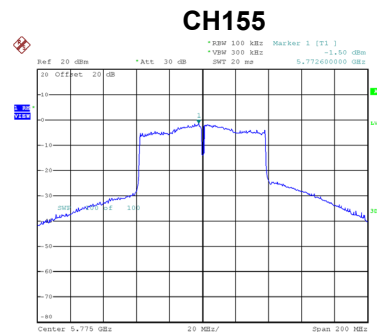
Test Mode UNII-3_TX AC(VHT40) Mode

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
151	5755	1.69	0.29	1.98	30.00	Complies
159	5795	2.42	0.29	2.71	30.00	Complies



Test Mode UNII-3_TX AC(VHT80) 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
155	5775	-1.50	0.50	-1.00	30.00	Complies



APPENDIX H - FREQUENCY STABILITY

Test Mode	UNII-1
-----------	--------

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5180.0000
13.8	5180.0384
12.0	5180.0388
10.2	5180.0388
Maximum Deviation (MHz)	0.0388
Maximum Deviation (ppm)	7.4903

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5180.0000
0	5180.0392
10	5180.0396
20	5180.0400
30	5180.0400
40	5180.0396
45	5180.0396
Maximum Deviation (MHz)	0.0400
Maximum Deviation (ppm)	7.7220

Test Mode	UNII-3
-----------	--------

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5745.0000
13.8	5745.0520
12.0	5745.0516
10.2	5745.0500
Maximum Deviation (MHz)	0.0520
Maximum Deviation (ppm)	9.0513

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5745.0000
0	5745.0504
10	5745.0500
20	5745.0496
30	5745.0500
40	5745.0500
45	5745.0500
Maximum Deviation (MHz)	0.0504
Maximum Deviation (ppm)	8.7728

End of Test Report