

FCC Radio Test Report

FCC ID: 2AGZWLS35X

This report concerns: Original Grant

Project No. : 1808T008
Equipment : Wireless Headset
Test Model : LS35X
Series Model : N/A
Applicant : LucidSound Inc.
Address : 5939 Darwin Ct. Suite 100 Carlsbad, CA 92008 United States

Date of Receipt : Aug. 03, 2018
Date of Test : Aug. 03, 2018 ~ Oct. 23, 2018
Issued Date : Dec. 21, 2018
Tested by : BTL Inc.

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The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements 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.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 26, 2018
R01	Revised report to address TCB's comments.	Dec. 21, 2018

1 CERTIFICATION

Equipment : Wireless Headset
Brand Name : LucidSound
Test Model : LS35X
Series Model : N/A
Applicant : LucidSound Inc.
Manufacturer : Ampacs corp.
Address : 3F., No.19-3, Sanchong Rd., Nangang Dist., Taipei City 11501, Taiwan
Date of Test : Aug. 03, 2018 ~ Oct. 23, 2018
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart E (§15.407)
ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1808T008) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the RLAN 5GHz part.

2 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Part15, Subpart E (§15.407)				
FCC Clause No	Description	Test Result	Judgement	Remark
§15.207 §15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
§15.205 §15.209 §15.407(b)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	-----
§15.407(a)	Bandwidth	APPENDIX E	Pass	-----
§15.407(a)	Peak Output Power	APPENDIX F	Pass	-----
§15.407(a)	Power Spectral Density	APPENDIX G	Pass	-----
§15.407(g)	Frequency Stability	APPENDIX H	Pass	-----
§15.407(h)(1)	Transmit power control (TPC)	APPENDIX I	N/A	NOTE (2)
§15.203	Antenna Requirement	-----	Pass	-----
§15.407(c)	Automatically Discontinue Transmission	-----	Pass	NOTE (3)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.
- (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.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

CB05: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

CB15: (VCCI RN: R-20020; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5)

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U (dB)
C05	CISPR	150 kHz ~ 30MHz	2.68	C05

B. Radiated emissions below 1 GHz test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U (dB)
CB15 (3m)	CISPR	30 MHz ~ 200 MHz	V	4.20
		30 MHz ~ 200 MHz	H	3.64
		200 MHz ~ 1,000 MHz	V	4.56
		200 MHz ~ 1,000 MHz	H	3.90

C. Radiated emissions above 1 GHz test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U (dB)
CB15 (3m)	CISPR	1 GHz ~ 6 GHz	V	4.46
		1 GHz ~ 6 GHz	H	4.40
		6 GHz ~18 GHz	V	3.88
		6 GHz ~18 GHz	H	4.00

Test Site	Method	Measurement Frequency Range	U (dB)
CB15 (1m)	CISPR	18 GHz ~ 26.5 GHz	4.62
		26.5 GHz ~ 40 GHz	5.12

D. Conducted tests:

Item	Method	U
Bandwidth	ANSI	3.8 %
Output Power	ANSI	0.95 dB
Power Spectral Density	ANSI	0.86 dB
Conducted Spurious Emissions	ANSI	2.71 dB

NOTE:

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

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

3 GENERAL INFORMATION

3.1 DESCRIPTION OF EUT

Equipment	Wireless Headset
Brand Name	LucidSound
Test Model	LS35X
Series Model	N/A
Model Difference	N/A
Power Source	#1 DC voltage supplied from USB port. #2 Supplied from Li-ion battery.
Power Rating	#1 DC 5V #2 DC 3.65V~4.2V
Products Covered	N/A
Frequency Range	UNII-1: 5150 MHz to 5250 MHz UNII-2A: 5250 MHz to 5350 MHz UNII-2C: 5470 MHz to 5724 MHz UNII-3: 5725 MHz to 5850 MHz
Operation Frequency	UNII-1: 5180 MHz to 5240 MHz UNII-2A: 5260 MHz to 5320 MHz UNII-2C: 5500 MHz to 5700 MHz UNII-3: 5745 MHz to 5825 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	up to 86.7Mbps
Maximum Output Power for UNII-1	IEEE 802.11a: 7.58 dBm (0.0057 W) IEEE 802.11n (HT20): 7.74 dBm (0.0059 W)
Maximum Output Power for UNII-2A	IEEE 802.11a: 7.54 dBm (0.0057 W) IEEE 802.11n (HT20): 7.64 dBm (0.0058 W)
Maximum Output Power for UNII-2C	IEEE 802.11a: 7.71 dBm (0.0059 W) IEEE 802.11n (HT20): 7.74 dBm (0.0059 W)
Maximum Output Power for UNII-3	IEEE 802.11a: 7.58 dBm (0.0057 W) IEEE 802.11n (HT20): 7.48 dBm (0.0056 W)

NOTE:

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

(2) Channel List:

UNII-1		UNII-2A	
IEEE 802.11a IEEE 802.11n (HT20)		IEEE 802.11a IEEE 802.11n (HT20)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260
40	5200	56	5280
44	5220	60	5300
48	5240	64	5320

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

(3) Table for Filed Antenna:

Ant.	Brand	Model	Type	Connector	Gain (dBi)	Note
1	ONEWAVE	WAN7020LD25N04	Chip	N/A	3.83	UNII-1
1	ONEWAVE	WAN7020LD25N04	Chip	N/A	3.83	UNII-2A
1	ONEWAVE	WAN7020LD25N04	Chip	N/A	4.73	UNII-2C
1	ONEWAVE	WAN7020LD25N04	Chip	N/A	5.02	UNII-3

3.2 TEST MODES

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

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

AC power line conducted emissions test	
Test Mode	Description
6	UNII-1_TX N (HT20) MODE CHANNEL 40
12	UNII-2A_TX N (HT20) MODE CHANNEL 64
18	UNII-2C_TX A MODE CHANNEL 140
19	UNII-3_TX A MODE CHANNEL 149

Radiated emissions test	
Test Mode	Description
1	UNII-1_TX A MODE CHANNEL 36/40/48
2	UNII-1_TX N (HT20) MODE CHANNEL 36/40/48
3	UNII-2A_TX A MODE CHANNEL 52/60/64
6	UNII-2A_TX N (HT20) MODE CHANNEL 52/60/64
7	UNII-2C_TX A MODE CHANNEL 100/116/140
8	UNII-2C_TX N (HT20) MODE CHANNEL 100/116/140
9	UNII-3_TX A MODE CHANNEL 149/157/165
12	UNII-3_TX N (HT20) MODE CHANNEL 149/157/165

Conducted test	
Test Mode	Description
1	UNII-1_TX A MODE CHANNEL 36/40/48
2	UNII-1_TX N (HT20) MODE CHANNEL 36/40/48
4	UNII-1_TX AC (HT20) MODE CHANNEL 36/40/48
7	UNII-2A_TX A MODE CHANNEL 52/60/64
8	UNII-2A_TX N (HT20) MODE CHANNEL 52/60/64
13	UNII-2C_TX A MODE CHANNEL 100/116/140
14	UNII-2C_TX N (HT20) MODE CHANNEL 100/116/140
19	UNII-3_TX A MODE CHANNEL 149/157/165
20	UNII-3_TX N (HT20) MODE CHANNEL 149/157/165

NOTE:

- (1) The measurements are performed at the low, middle and high available channels.
- (2) For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11N (HT20) for UNII-1, UNII-2A and IEEE 802.11a for UNII-2C, UNII-3 were found to be the worst case and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software	ART2-GUI(Verion:2.3)		
Mode	5180 MHz	5200 MHz	5240 MHz
IEEE 802.11a	6.5	6	6
IEEE 802.11n (HT20)	7	6.5	6

UNII-2A			
Test Software	ART2-GUI(Verion:2.3)		
Mode	5260 MHz	5300 MHz	5320 MHz
IEEE 802.11a	6	6	6
IEEE 802.11n (HT20)	6	6	6

UNII-2C			
Test Software	ART2-GUI(Verion:2.3)		
Mode	5500 MHz	5580 MHz	5700 MHz
IEEE 802.11a	4.5	4	5
IEEE 802.11n (HT20)	5	4	5

UNII-3			
Test Software	ART2-GUI(Verion:2.3)		
Mode	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	5	6	6
IEEE 802.11n (HT20)	5	6	6

3.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
If duty cycle is $< 98\%$, duty factor shall be considered.

For UNII-1:

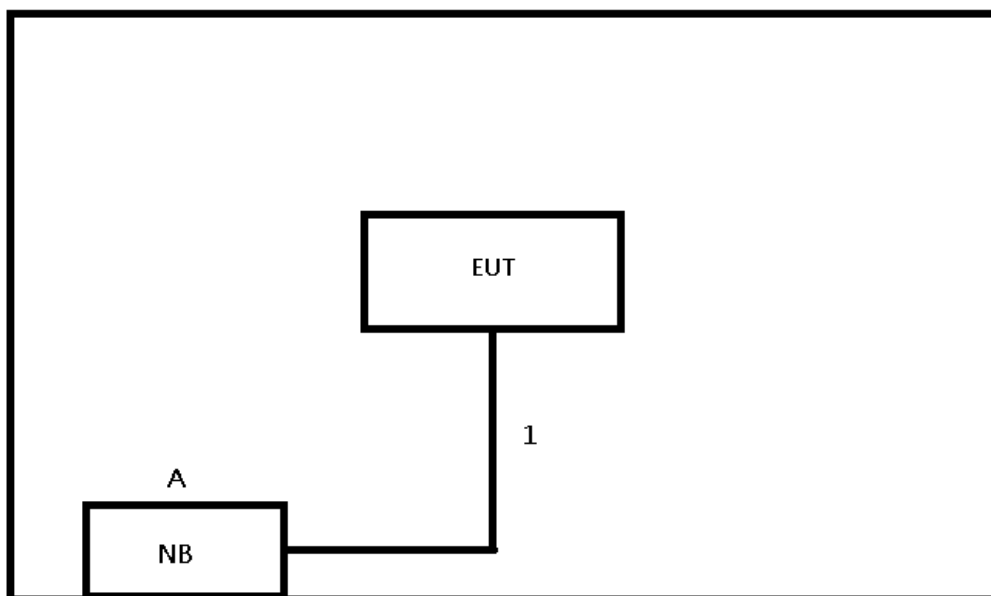
IEEE 802.11a	IEEE 802.11n (HT20)
Ref 10 dBm *Att 20 dB *VSW 1 MHz SWT 2.5 ms Delta 2 [T1] 0.28 dB Marker 1 [T1] -4.55 dBm 100.000000 ms 2.030000 ms 2.13 dB 2.030000 ms 3dB LVL SGI Center 5.18 GHz 250 μs/ Date: 14.AUG.2018 18:38:05 Duty cycle = 2.030 ms / 2.075 ms = 97.83 % Duty Factor = $10 * \log(1 / 0.9783) = 0.10$ dB	Ref 10 dBm *Att 20 dB *VSW 1 MHz SWT 4 ms Delta 2 [T1] 0.08 dB Marker 1 [T1] -3.93 dBm 1.888000 ms 1.928000 ms 1.78 dB 1.888000 ms 3dB LVL SGI Center 5.18 GHz 400 μs/ Date: 14.AUG.2018 17:55:00 Duty cycle = 1.888 ms / 1.928 ms = 97.93 % Duty Factor = $10 * \log(1 / 0.9793) = 0.09$ dB

NOTE:

For IEEE 802.11a and 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 1 kHz (Duty cycle $< 98\%$).

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	NB	HP	TPN-I119	5CG7032BNS	Furnished at test lab

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	NO	NO	1m	USB Cable	Furnished at test lab

4 AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56 *	56 - 46 *
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	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) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value – Limit Value

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).
 The LISN provides 50 Ohm/50uH of 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 to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 The end of the cable will be terminated, using the correct terminating impedance.
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.

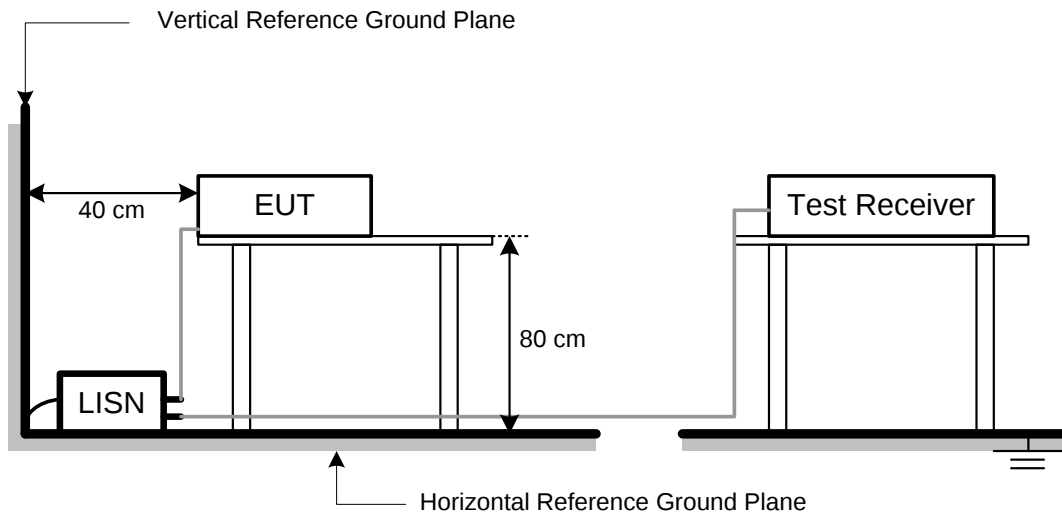
NOTE:

1. In the results, each reading is marked as Peak, QP or AVG per the detector used.
 BW=9 kHz (6 dB Bandwidth)
2. All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in normal link mode.

4.6 TEST RESULT

Temperature: 25 °C Relative Humidity: 45 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX A.

5 RADIATED EMISSIONS TEST

5.1 LIMIT

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

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 (NOTE 2)	68.3
	10 (NOTE 2)	105.3
	15.6 (NOTE 2)	110.9
	27 (NOTE 2)	122.3

NOTE:

- 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)
- According to FCC 16-24, 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.

5.2 TEST PROCEDURE

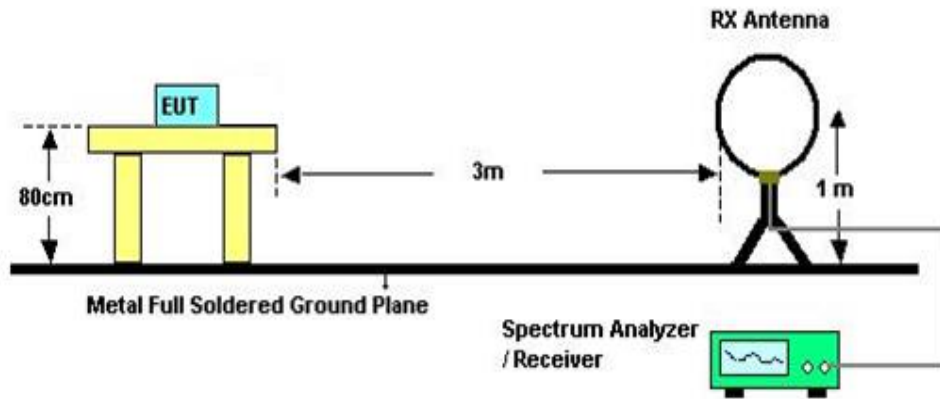
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m 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 0.8 m or 1.5 m, 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 1GHz.
- 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 1GHz)
- 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 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.3 DEVIATION FROM TEST STANDARD

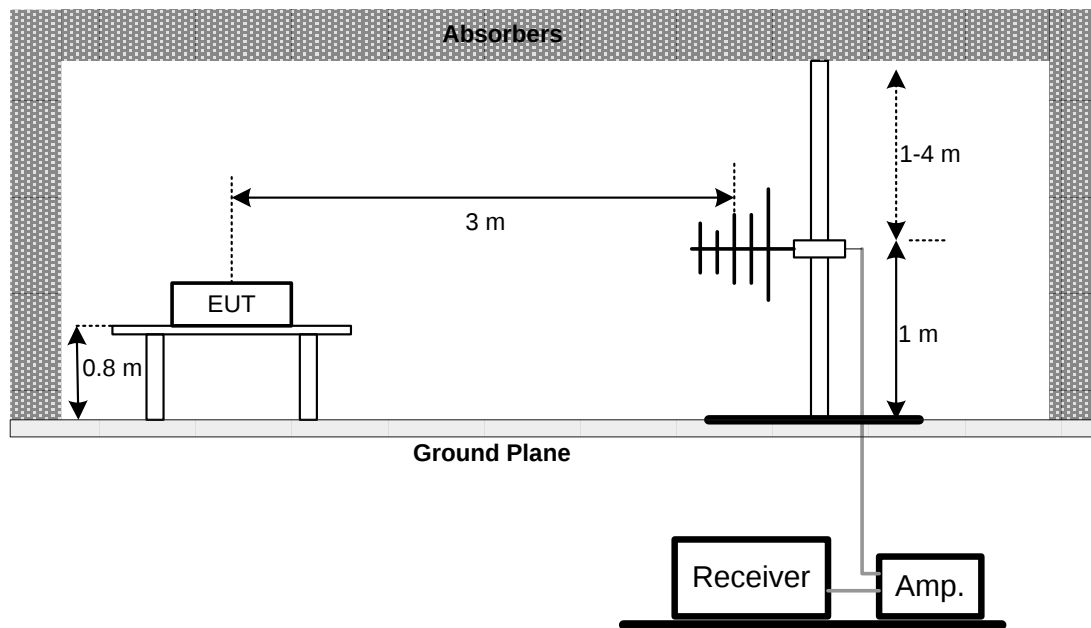
No deviation.

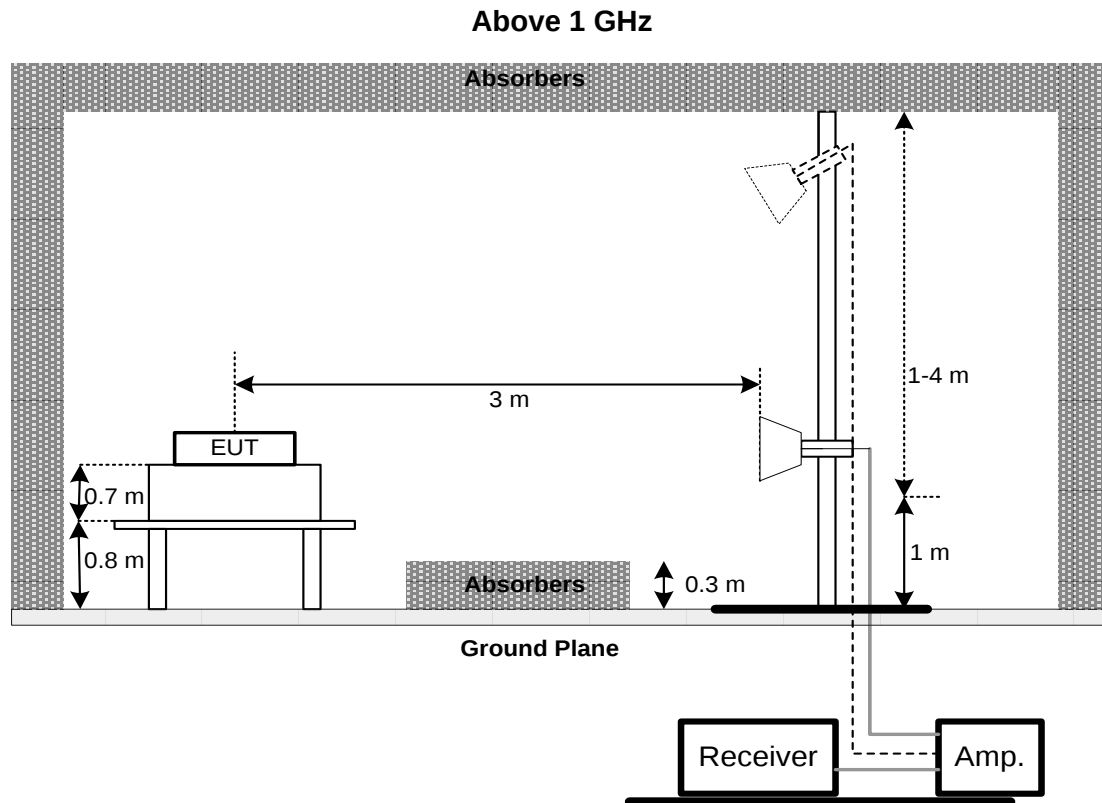
5.4 TEST SETUP

Below 30 MHz



30 MHz to 1 GHz





5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT – 9 KHZ TO 30 MHZ

Temperature: 23 °C Relative Humidity: 70 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX B.

NOTE:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULT – 30MHZ TO 1000 MHZ

Temperature: 23 °C Relative Humidity: 70 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX C.

5.8 TEST RESULT – ABOVE 1000 MHZ

Temperature: 23 °C Relative Humidity: 70 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX D.

NOTE:

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

6 BANDWIDTH TEST

6.1 LIMIT

FCC Part15, Subpart E (§15.407)		
Section	Test Item	Frequency Range (MHz)
§15.407(a)	26 dB Bandwidth	5150-5250
		5250-5350
		5470-5725
	Minimum 500 kHz 6 dB Bandwidth	5725-5850

6.2 TEST PROCEDURE

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz(Bandwidth 20 MHz) 1 MHz(Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz(Bandwidth 20 MHz) 3 MHz(Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

7 PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart E (§15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
§15.407(a)	Maximum Output Power	Fixed:1 Watt (30 dBm) Mobile and portable: 250 mW (24 dBm)	5150-5250
		250 mW (24 dBm)	5250-5350
			5470-5725
		1 Watt (30dBm)	5725-5850

Note: The maximum e.i.r.p at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW(21 dBm).

7.2 TEST PROCEDURE

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Max Hold
Sweep Time	auto

- The maximum peak conducted output power was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.

8 POWER SPECTRAL DENSITY

8.1 LIMIT

FCC Part15, Subpart E (§15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
§15.407(a)	Power Spectral Density	Other than Mobile and portable: 17 dBm/MHz Mobile and portable: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
			5470-5725
		30 dBm/500 kHz	5725-5850

8.2 TEST PROCEDURE

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULT

Please refer to the APPENDIX G.

9 FREQUENCY STABILITY TEST

9.1 LIMIT

FCC Part15, Subpart E (§15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g)	Frequency Stability	Specified in the user's manual	5150-5250
			5250-5350
			5470-5725
			5725-5850

9.2 TEST PROCEDURE

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

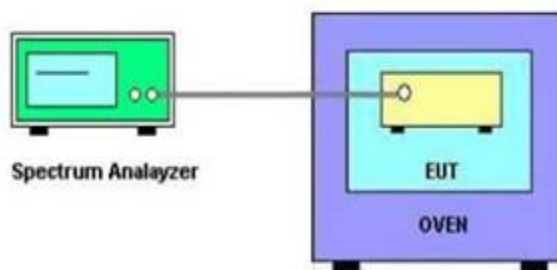
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is 0°C~40°C.

9.3 DEVIATION FROM TEST STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULT

Please refer to the APPENDIX H.

10 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Mar. 08, 2019
2	Test Cable	EMCI	EMCCFD300-BM-BMR-6000	170715	Aug. 06, 2018 Aug. 07, 2019
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2018
4	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Radiated Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Feb. 27, 2019
2	Preamplifier	EMCI	EMC02325	980217	Dec. 28, 2018
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 13, 2019
4	Test Cable	EMCI	EMC104-SM-SM-8000	8m	Jan. 03, 2019
5	Test Cable	EMCI	EMC104-SM-SM-800	150207	Jan. 03, 2019
6	Test Cable	EMCI	EEMC104-SM-SM-3000	151205	Jan. 03, 2019
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 08, 2019
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 21, 2019
9	Loop Ant	EMCI	LPA600	274	May 03, 2019
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 27, 2019
11	Horn Ant	Schwarzbeck	BBHA 9170	187	Dec. 05, 2018
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 15, 2019
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 15, 2019
14	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A

26 dB Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP40	101139	May 25, 2019

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Oct. 02, 2018 Oct. 01, 2019
2	Power Sensor	Anritsu	MA2411B	1126001	Oct. 02, 2018 Oct. 01, 2019

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP40	101139	May 25, 2019

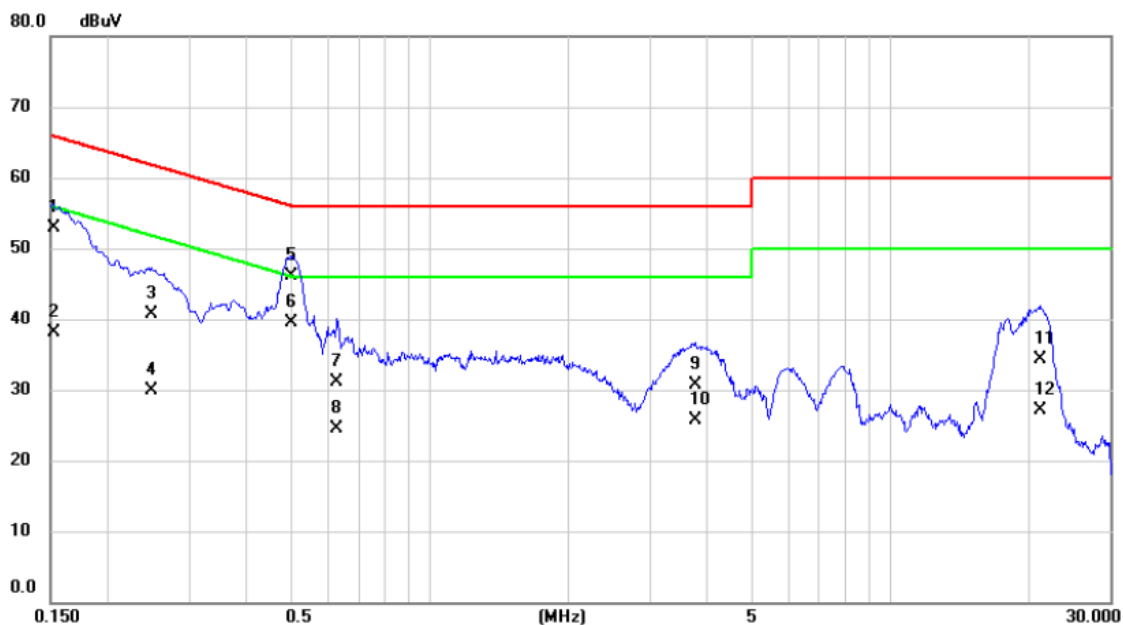
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP40	101139	May 25, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

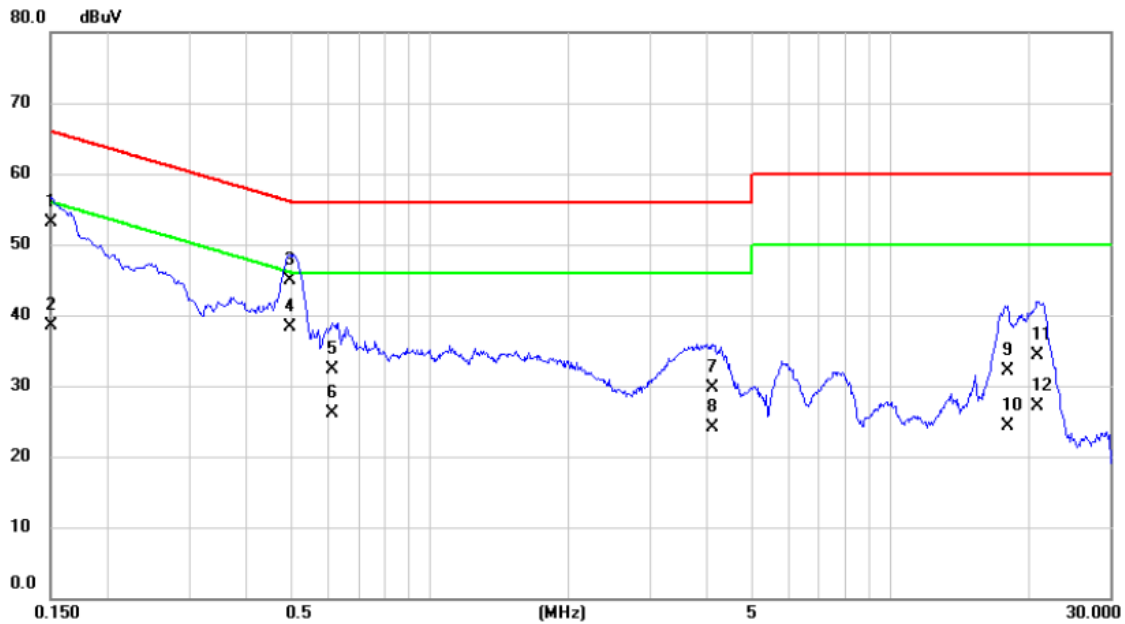
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Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Phase	Line
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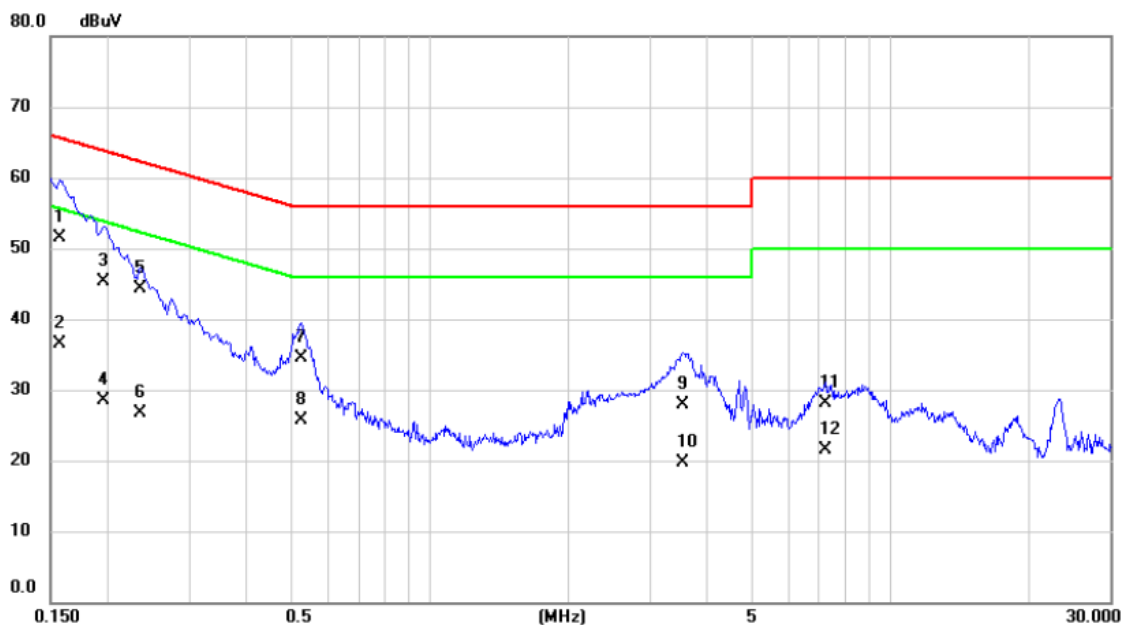
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1522	43.30	9.63	52.93	65.88	-12.95	QP	
2		0.1522	28.50	9.63	38.13	55.88	-17.75	AVG	
3		0.2490	31.00	9.64	40.64	61.79	-21.15	QP	
4		0.2490	20.30	9.64	29.94	51.79	-21.85	AVG	
5		0.5010	36.50	9.66	46.16	56.00	-9.84	QP	
6	*	0.5010	29.80	9.66	39.46	46.00	-6.54	AVG	
7		0.6292	21.50	9.66	31.16	56.00	-24.84	QP	
8		0.6292	14.80	9.66	24.46	46.00	-21.54	AVG	
9		3.7725	21.00	9.73	30.73	56.00	-25.27	QP	
10		3.7725	15.90	9.73	25.63	46.00	-20.37	AVG	
11		21.0953	24.30	9.97	34.27	60.00	-25.73	QP	
12		21.0953	17.20	9.97	27.17	50.00	-22.83	AVG	

Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Phase	Neutral
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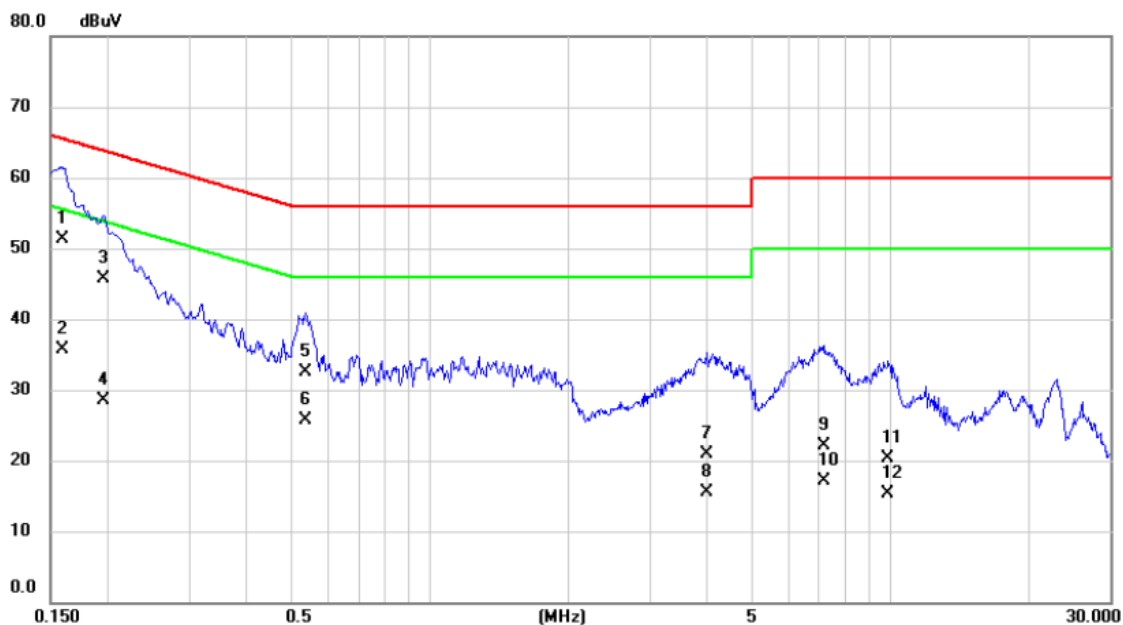
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	43.40	9.62	53.02	66.00	-12.98	QP	
2		0.1500	28.80	9.62	38.42	56.00	-17.58	AVG	
3		0.4965	35.30	9.65	44.95	56.06	-11.11	QP	
4	*	0.4965	28.60	9.65	38.25	46.06	-7.81	AVG	
5		0.6134	22.70	9.65	32.35	56.00	-23.65	QP	
6		0.6134	16.40	9.65	26.05	46.00	-19.95	AVG	
7		4.1123	20.00	9.73	29.73	56.00	-26.27	QP	
8		4.1123	14.30	9.73	24.03	46.00	-21.97	AVG	
9		17.9138	22.20	9.97	32.17	60.00	-27.83	QP	
10		17.9138	14.40	9.97	24.37	50.00	-25.63	AVG	
11		20.9085	24.30	9.98	34.28	60.00	-25.72	QP	
12		20.9085	17.20	9.98	27.18	50.00	-22.82	AVG	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Phase	Line
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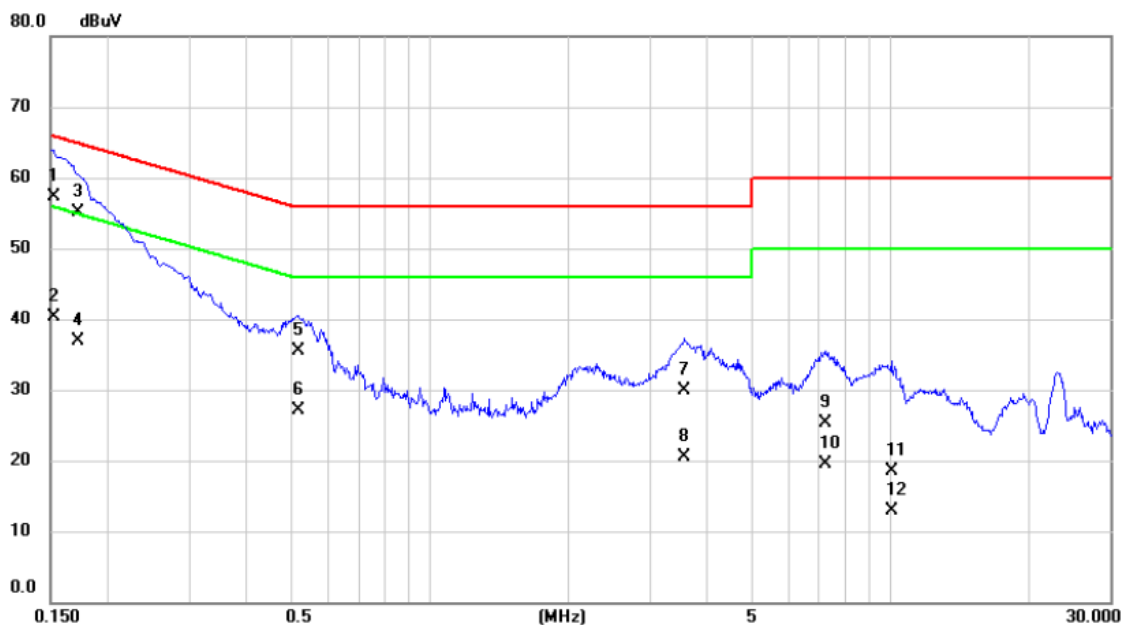
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1567	41.80	9.63	51.43	65.64	-14.21	QP	
2		0.1567	26.90	9.63	36.53	55.64	-19.11	AVG	
3		0.1950	35.70	9.63	45.33	63.82	-18.49	QP	
4		0.1950	18.80	9.63	28.43	53.82	-25.39	AVG	
5		0.2355	34.60	9.64	44.24	62.25	-18.01	QP	
6		0.2355	17.00	9.64	26.64	52.25	-25.61	AVG	
7		0.5257	24.80	9.66	34.46	56.00	-21.54	QP	
8		0.5257	16.00	9.66	25.66	46.00	-20.34	AVG	
9		3.5295	18.10	9.73	27.83	56.00	-28.17	QP	
10		3.5295	9.90	9.73	19.63	46.00	-26.37	AVG	
11		7.2240	18.20	9.83	28.03	60.00	-31.97	QP	
12		7.2240	11.70	9.83	21.53	50.00	-28.47	AVG	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Phase	Neutral
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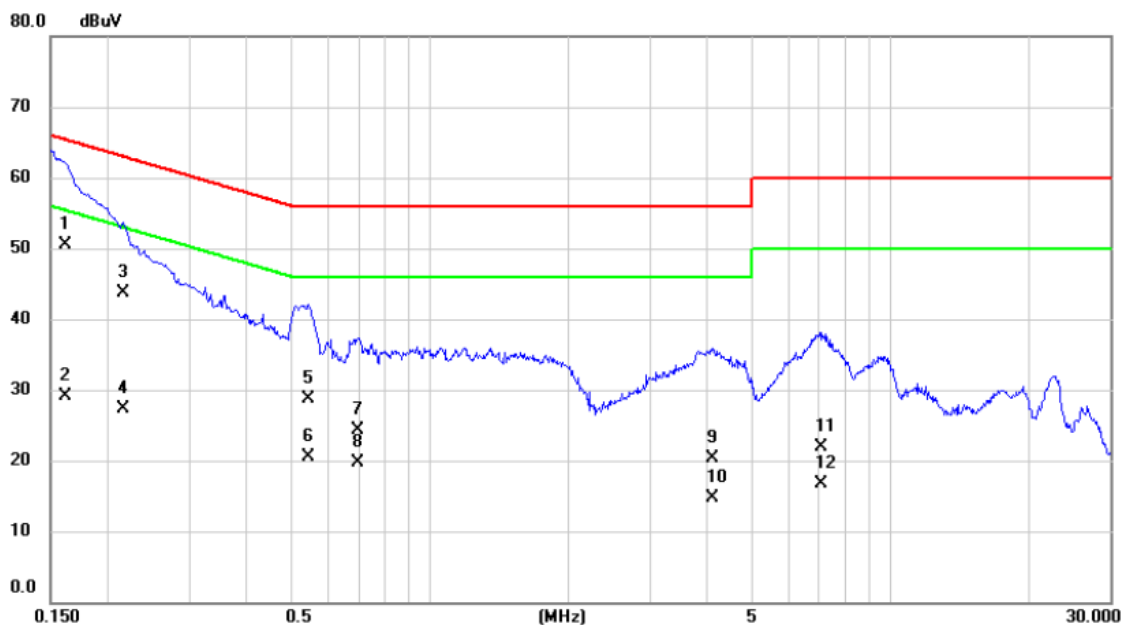
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1590	41.60	9.62	51.22	65.52	-14.30	QP	
2		0.1590	26.10	9.62	35.72	55.52	-19.80	AVG	
3		0.1950	36.00	9.61	45.61	63.82	-18.21	QP	
4		0.1950	18.90	9.61	28.51	53.82	-25.31	AVG	
5		0.5370	22.90	9.65	32.55	56.00	-23.45	QP	
6		0.5370	16.10	9.65	25.75	46.00	-20.25	AVG	
7		3.9953	11.10	9.72	20.82	56.00	-35.18	QP	
8		3.9953	5.80	9.72	15.52	46.00	-30.48	AVG	
9		7.1835	12.20	9.82	22.02	60.00	-37.98	QP	
10		7.1835	7.30	9.82	17.12	50.00	-32.88	AVG	
11		9.8813	10.40	9.92	20.32	60.00	-39.68	QP	
12		9.8813	5.30	9.92	15.22	50.00	-34.78	AVG	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Phase	Line
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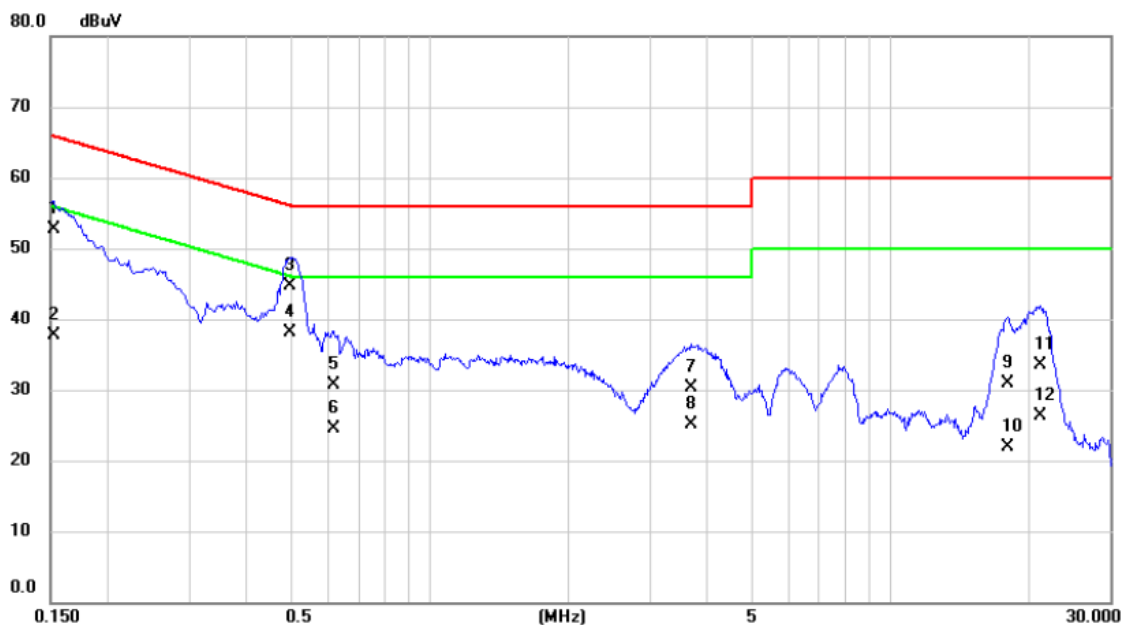
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1522	47.60	9.63	57.23	65.88	-8.65	QP	
2		0.1522	30.70	9.63	40.33	55.88	-15.55	AVG	
3		0.1725	45.50	9.63	55.13	64.84	-9.71	QP	
4		0.1725	27.20	9.63	36.83	54.84	-18.01	AVG	
5		0.5190	25.90	9.66	35.56	56.00	-20.44	QP	
6		0.5190	17.40	9.66	27.06	46.00	-18.94	AVG	
7		3.5655	20.20	9.73	29.93	56.00	-26.07	QP	
8		3.5655	10.80	9.73	20.53	46.00	-25.47	AVG	
9		7.2128	15.50	9.83	25.33	60.00	-34.67	QP	
10		7.2128	9.60	9.83	19.43	50.00	-30.57	AVG	
11		10.0455	8.50	9.92	18.42	60.00	-41.58	QP	
12		10.0455	2.90	9.92	12.82	50.00	-37.18	AVG	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Phase	Neutral
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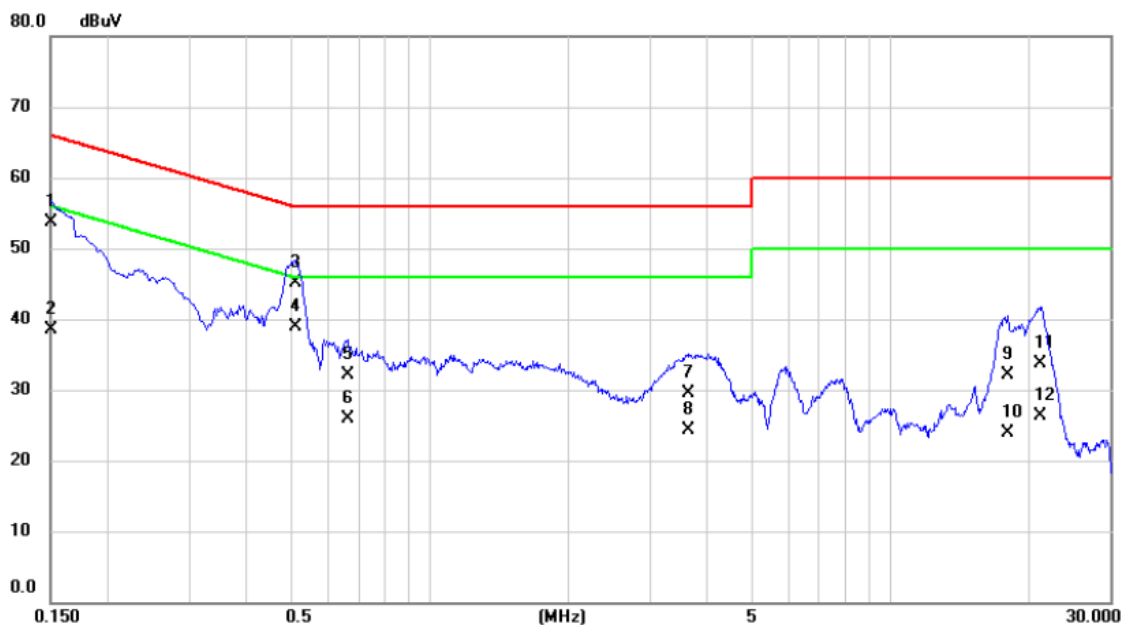
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1615	40.80	9.62	50.42	65.39	-14.97	QP	
2		0.1615	19.50	9.62	29.12	55.39	-26.27	AVG	
3		0.2153	34.00	9.61	43.61	63.00	-19.39	QP	
4		0.2153	17.60	9.61	27.21	53.00	-25.79	AVG	
5		0.5460	19.00	9.65	28.65	56.00	-27.35	QP	
6		0.5460	10.80	9.65	20.45	46.00	-25.55	AVG	
7		0.6990	14.60	9.65	24.25	56.00	-31.75	QP	
8		0.6990	10.00	9.65	19.65	46.00	-26.35	AVG	
9		4.1055	10.60	9.73	20.33	56.00	-35.67	QP	
10		4.1055	4.90	9.73	14.63	46.00	-31.37	AVG	
11		7.0688	12.10	9.82	21.92	60.00	-38.08	QP	
12		7.0688	6.90	9.82	16.72	50.00	-33.28	AVG	

Test Mode	UNII-3_TX A MODE 5745 MHz	Phase	Line
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1522	43.10	9.63	52.73	65.88	-13.15	QP	
2		0.1522	28.10	9.63	37.73	55.88	-18.15	AVG	
3		0.4965	35.10	9.66	44.76	56.06	-11.30	QP	
4	*	0.4965	28.50	9.66	38.16	46.06	-7.90	AVG	
5		0.6202	21.10	9.66	30.76	56.00	-25.24	QP	
6		0.6202	14.80	9.66	24.46	46.00	-21.54	AVG	
7		3.6825	20.50	9.73	30.23	56.00	-25.77	QP	
8		3.6825	15.40	9.73	25.13	46.00	-20.87	AVG	
9		17.9588	21.00	9.96	30.96	60.00	-29.04	QP	
10		17.9588	12.00	9.96	21.96	50.00	-28.04	AVG	
11		21.2145	23.50	9.97	33.47	60.00	-26.53	QP	
12		21.2145	16.40	9.97	26.37	50.00	-23.63	AVG	

Test Mode	UNII-3_TX A MODE 5745 MHz	Phase	Neutral
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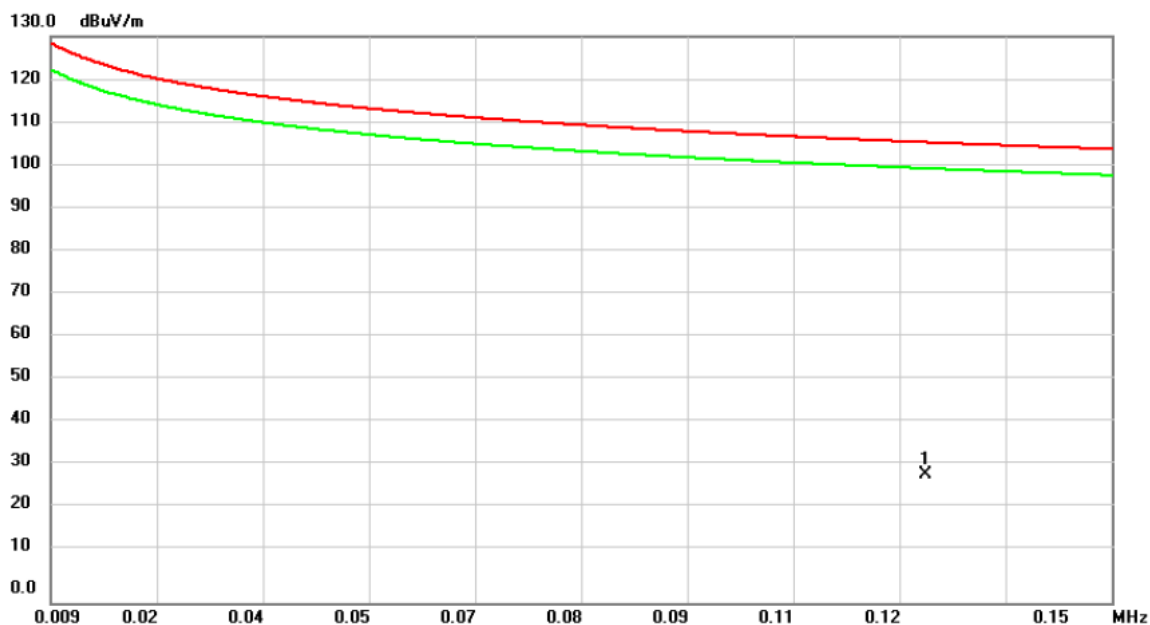


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	44.00	9.62	53.62	66.00	-12.38	QP	
2		0.1500	28.90	9.62	38.52	56.00	-17.48	AVG	
3		0.5100	35.50	9.65	45.15	56.00	-10.85	QP	
4	*	0.5100	29.30	9.65	38.95	46.00	-7.05	AVG	
5		0.6630	22.50	9.65	32.15	56.00	-23.85	QP	
6		0.6630	16.20	9.65	25.85	46.00	-20.15	AVG	
7		3.6533	19.80	9.72	29.52	56.00	-26.48	QP	
8		3.6533	14.50	9.72	24.22	46.00	-21.78	AVG	
9		17.9453	22.20	9.97	32.17	60.00	-27.83	QP	
10		17.9453	14.00	9.97	23.97	50.00	-26.03	AVG	
11		21.1313	23.70	9.98	33.68	60.00	-26.32	QP	
12		21.1313	16.40	9.98	26.38	50.00	-23.62	AVG	

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

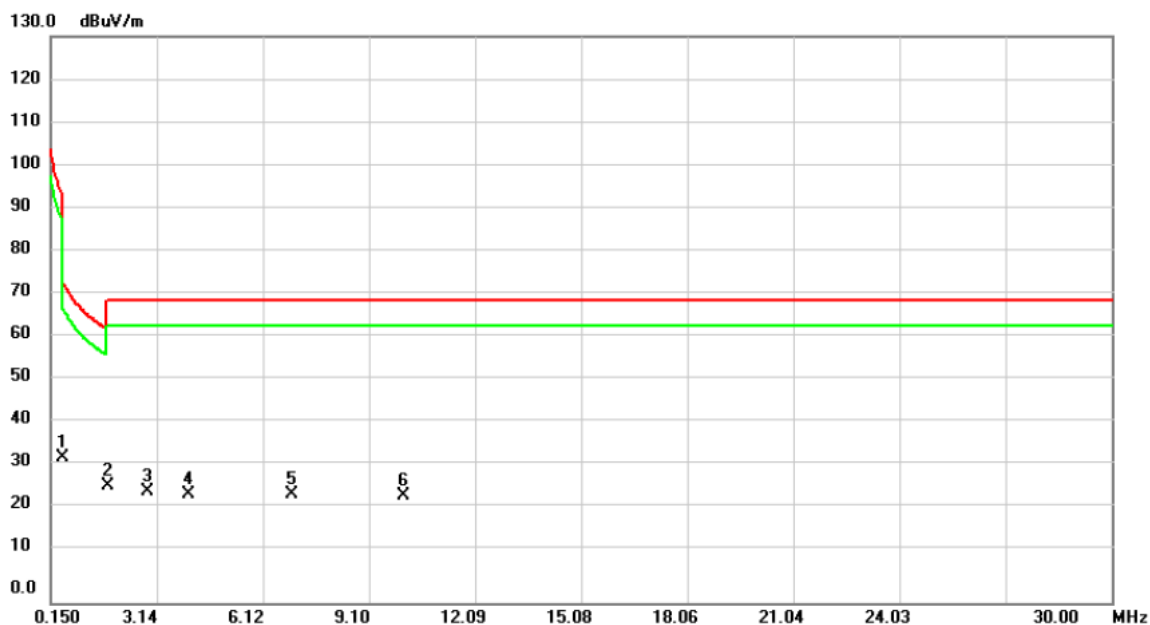
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Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Azimuth Angle	90°
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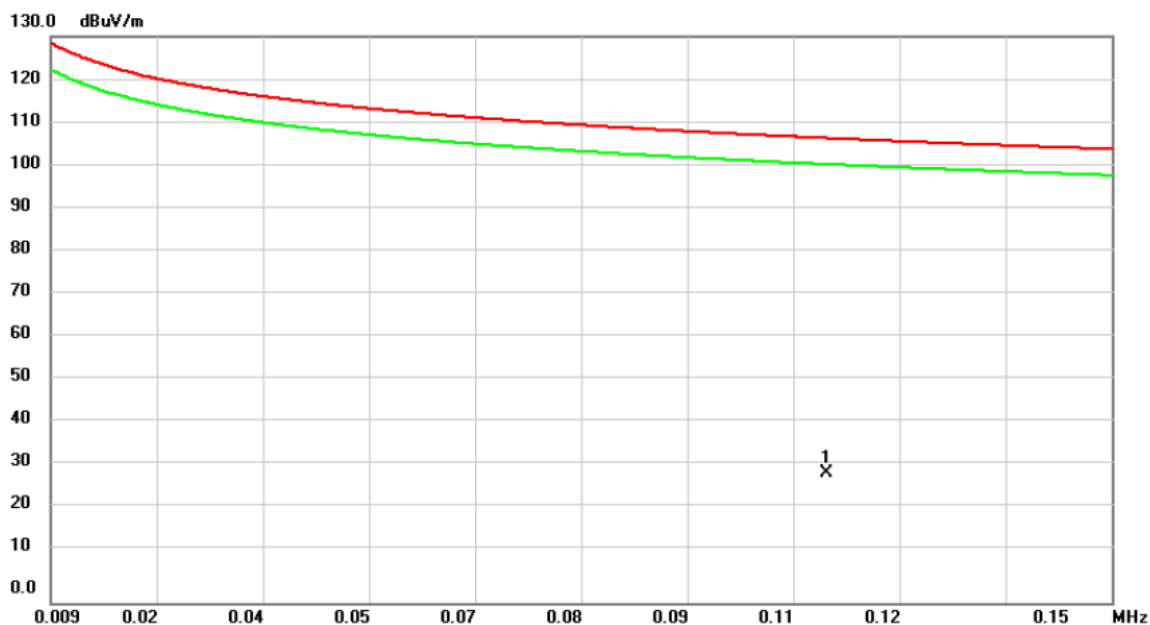
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.1252	14.73	14.60	29.33	105.65	-76.32	peak	

Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Azimuth Angle	90°
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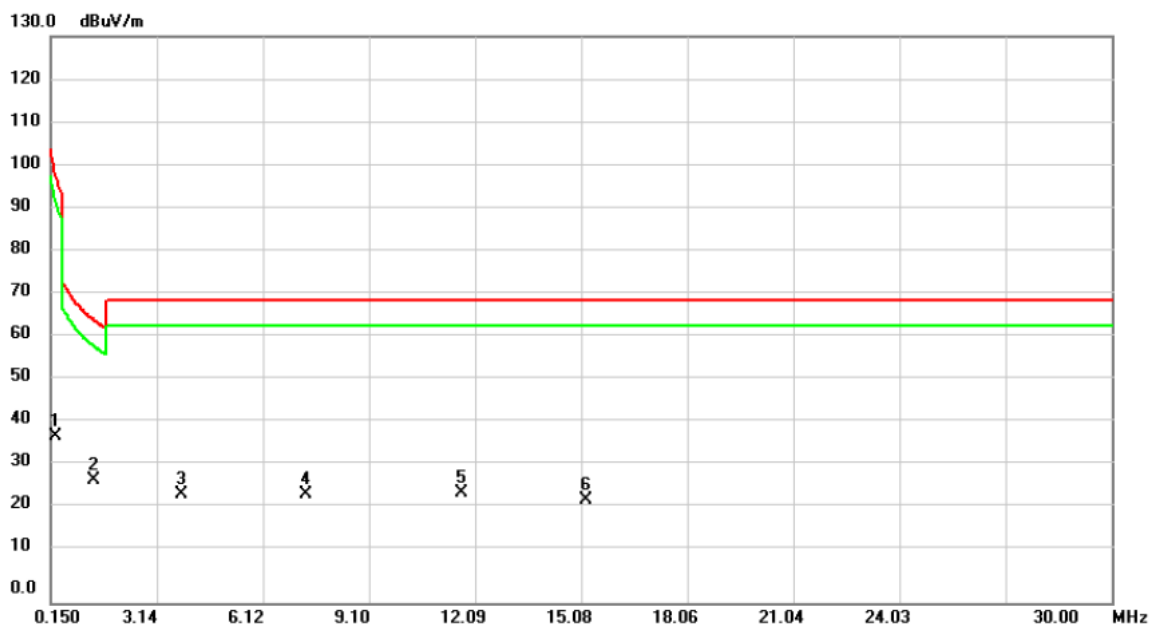
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.4684	29.29	3.93	33.22	94.19	-60.97	peak	
2	*	1.7420	29.23	-2.27	26.96	69.54	-42.58	peak	
3		2.8564	29.16	-3.56	25.60	69.54	-43.94	peak	
4		4.0106	28.71	-3.80	24.91	69.54	-44.63	peak	
5		6.9160	28.94	-4.11	24.83	69.54	-44.71	peak	
6		10.0602	29.18	-4.72	24.46	69.54	-45.08	peak	

Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Azimuth Angle	0°
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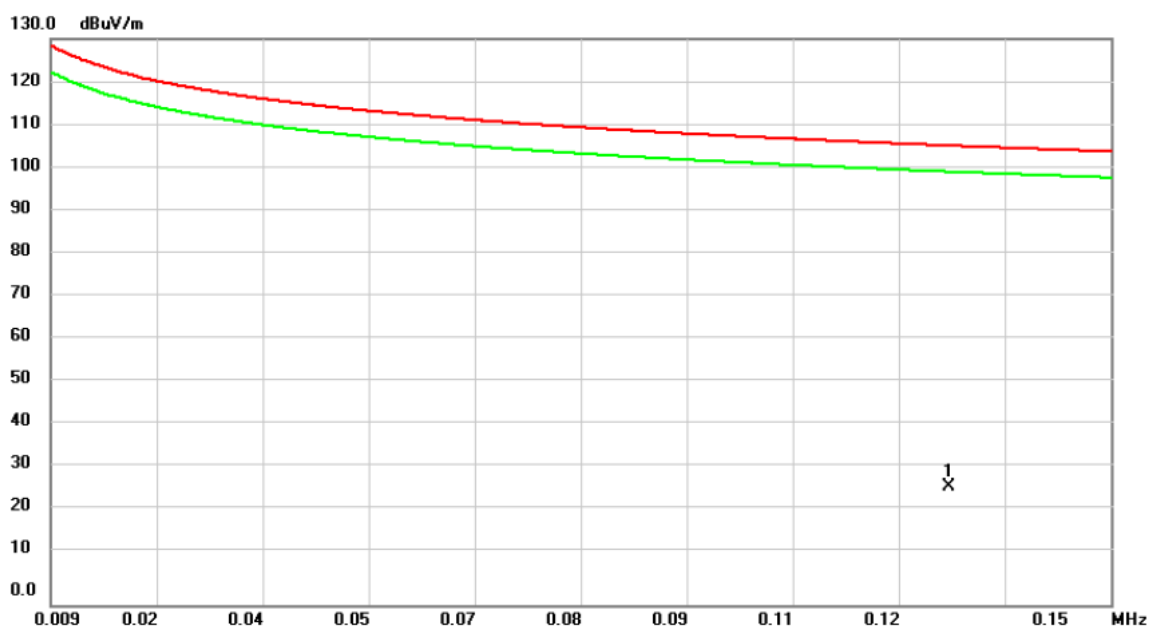
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1122	14.56	15.33	29.89	106.60	-76.71	peak	

Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Azimuth Angle	0°
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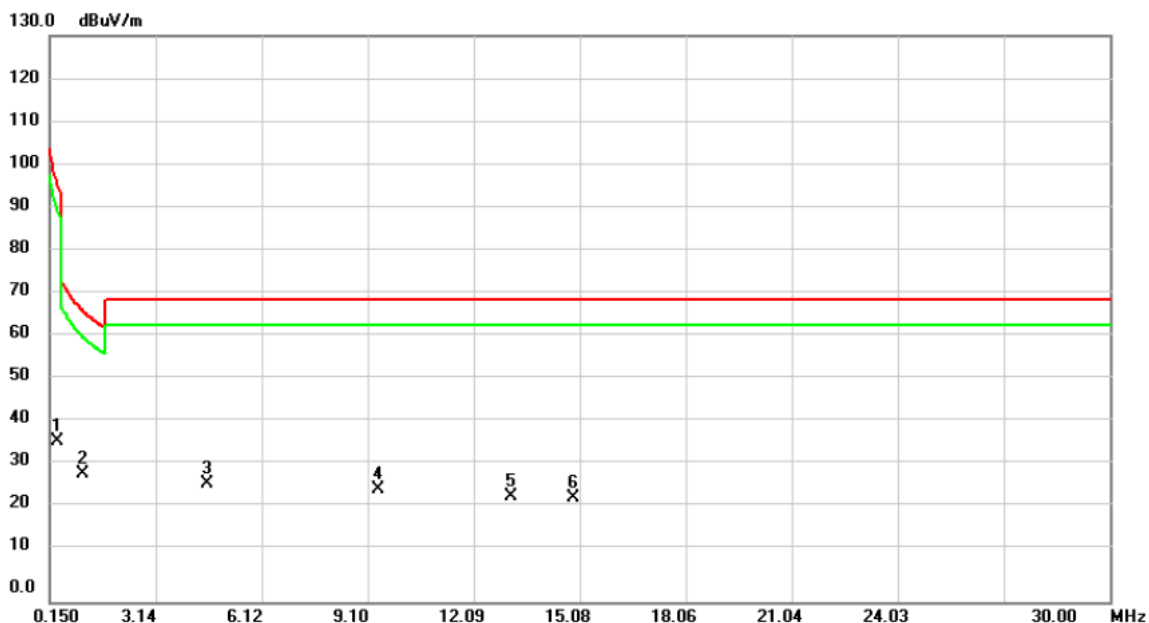
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2694	30.02	8.03	38.05	99.00	-60.95	peak	
2	*	1.3440	29.51	-1.25	28.26	65.04	-36.78	peak	
3		3.8116	28.77	-3.77	25.00	69.54	-44.54	peak	
4		7.3140	29.03	-4.18	24.85	69.54	-44.69	peak	
5		11.6920	29.85	-4.82	25.03	69.54	-44.51	peak	
6		15.1944	28.53	-5.09	23.44	69.54	-46.10	peak	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Azimuth Angle	90°
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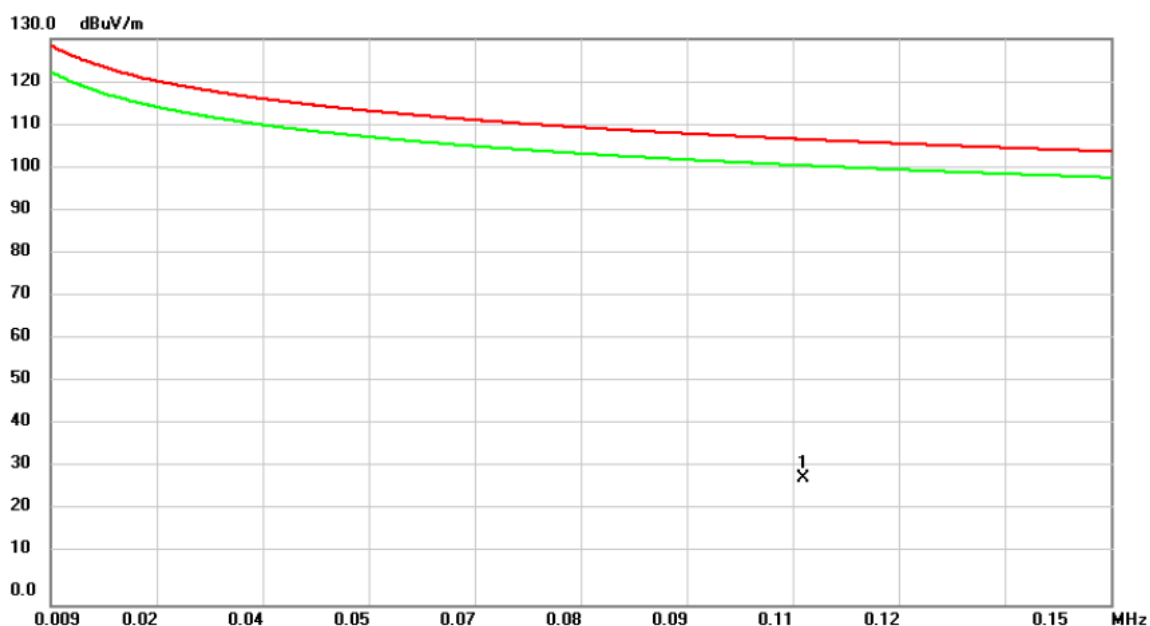
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.1284	12.78	14.41	27.19	105.43	-78.24	peak	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Azimuth Angle	90°
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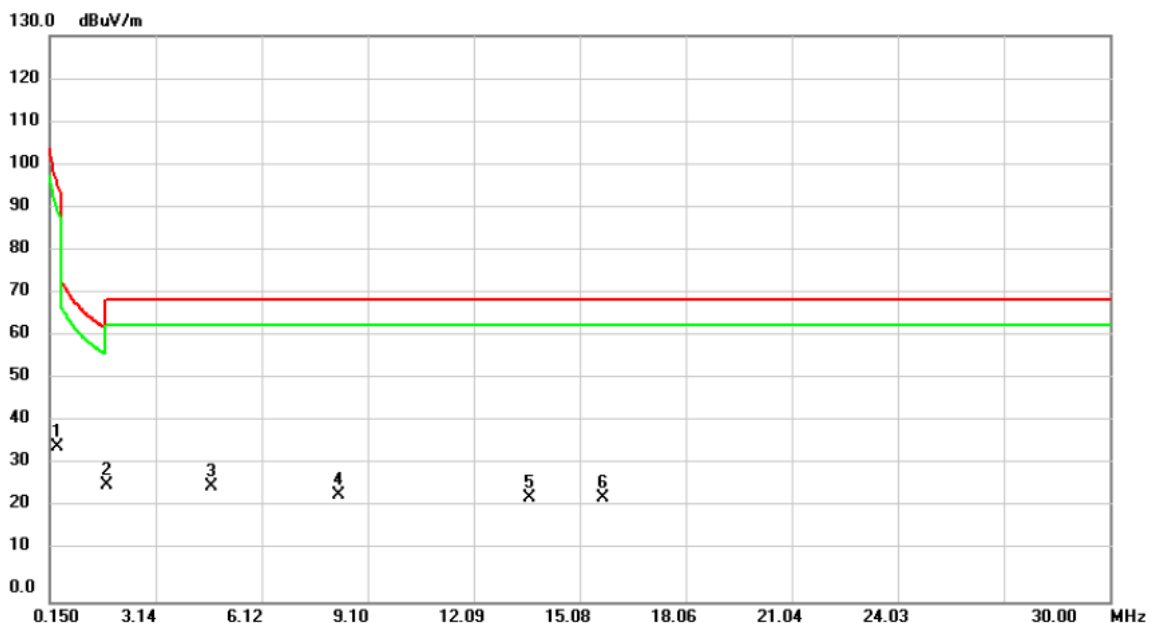
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.3588	31.06	5.75	36.81	96.51	-59.70	peak	
2	*	1.0750	30.07	-0.54	29.53	66.98	-37.45	peak	
3		4.5975	30.96	-3.88	27.08	69.54	-42.46	peak	
4		9.3836	30.61	-4.71	25.90	69.54	-43.64	peak	
5		13.1248	28.95	-4.82	24.13	69.54	-45.41	peak	
6		14.8760	28.82	-5.00	23.82	69.54	-45.72	peak	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Azimuth Angle	0°
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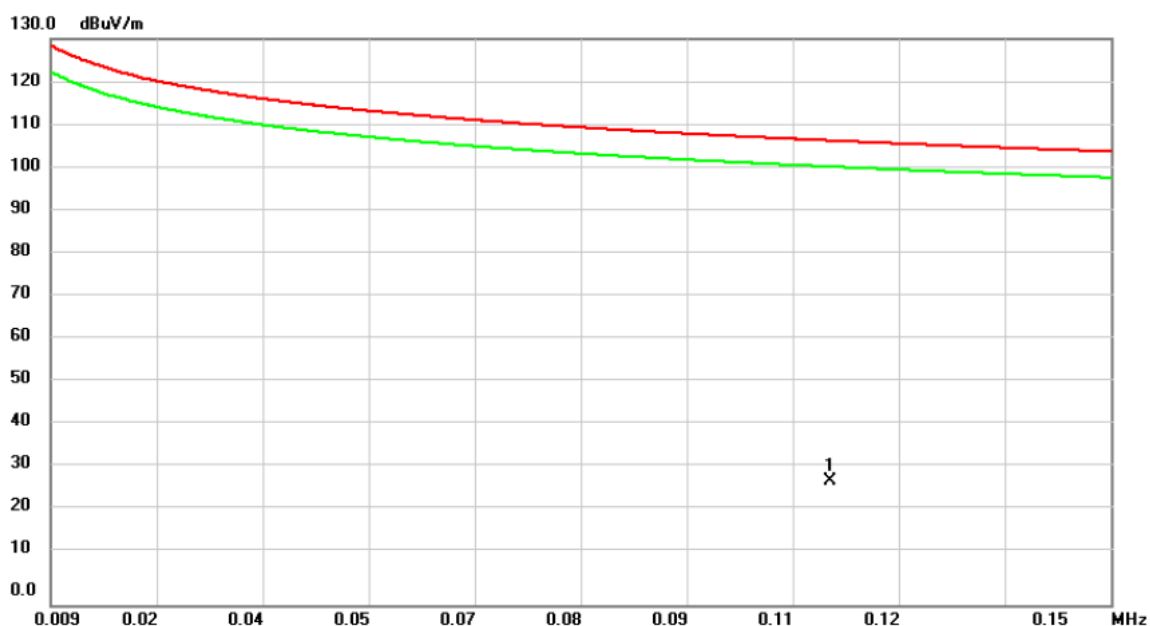
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.1092	13.52	15.51	29.03	106.84	-77.81	peak	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Azimuth Angle	0°
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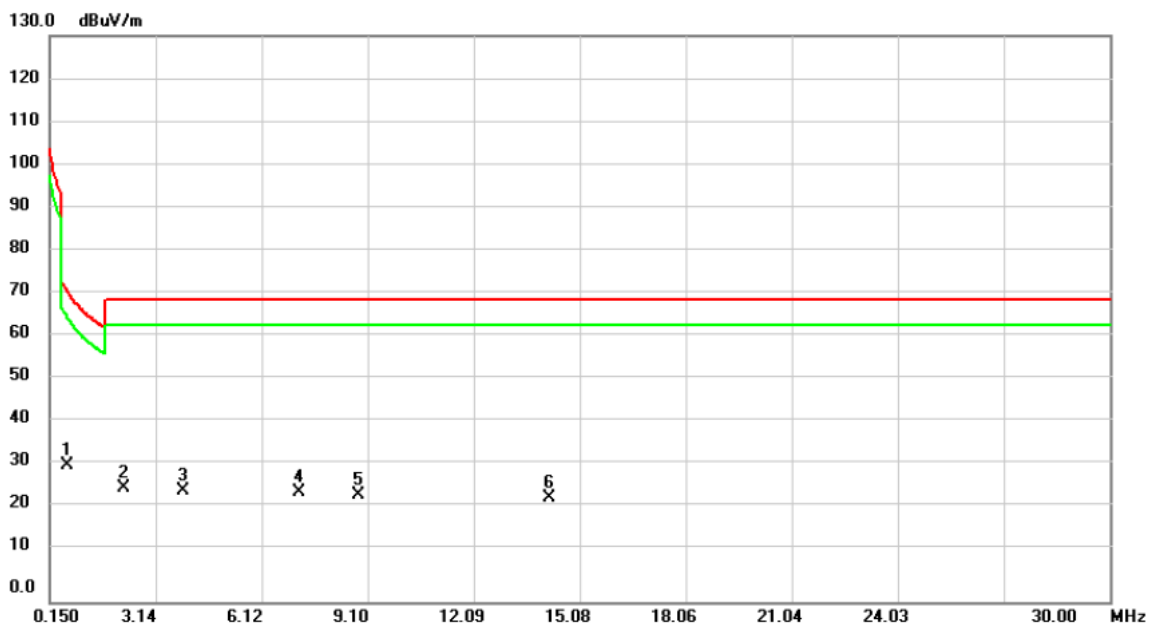
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.3490	29.69	5.95	35.64	96.75	-61.11	peak	
2	*	1.7420	28.98	-2.27	26.71	69.54	-42.83	peak	
3		4.6872	30.29	-3.89	26.40	69.54	-43.14	peak	
4		8.3090	29.05	-4.44	24.61	69.54	-44.93	peak	
5		13.6422	28.56	-4.82	23.74	69.54	-45.80	peak	
6		15.7118	28.97	-5.24	23.73	69.54	-45.81	peak	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Azimuth Angle	90°
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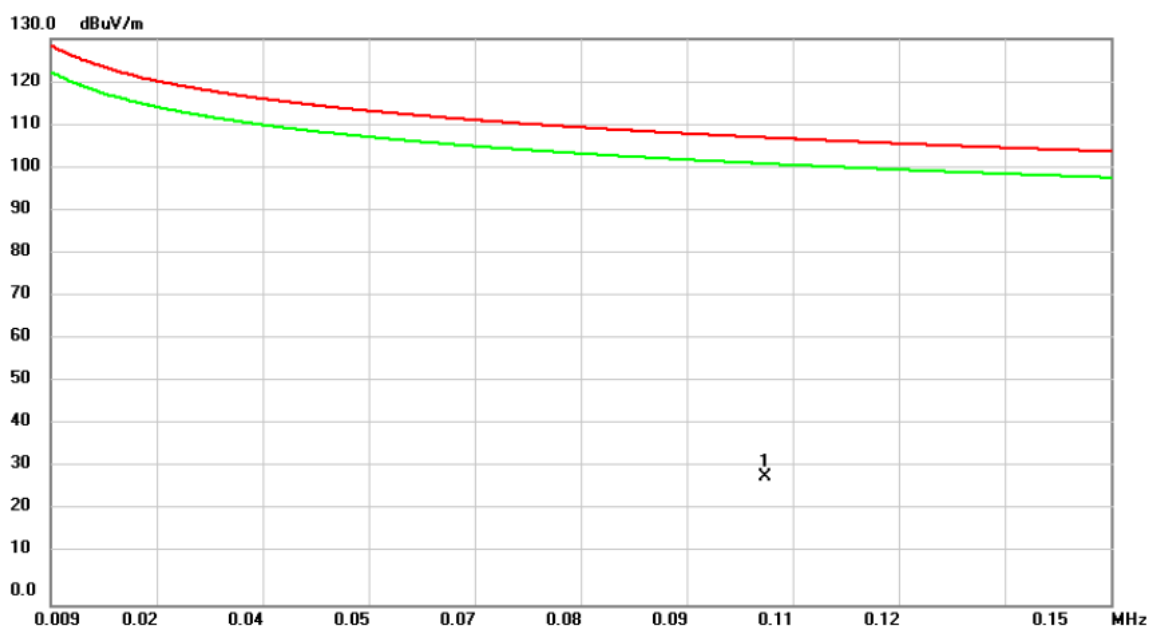
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1126	13.04	15.31	28.35	106.57	-78.22	peak	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Azimuth Angle	90°
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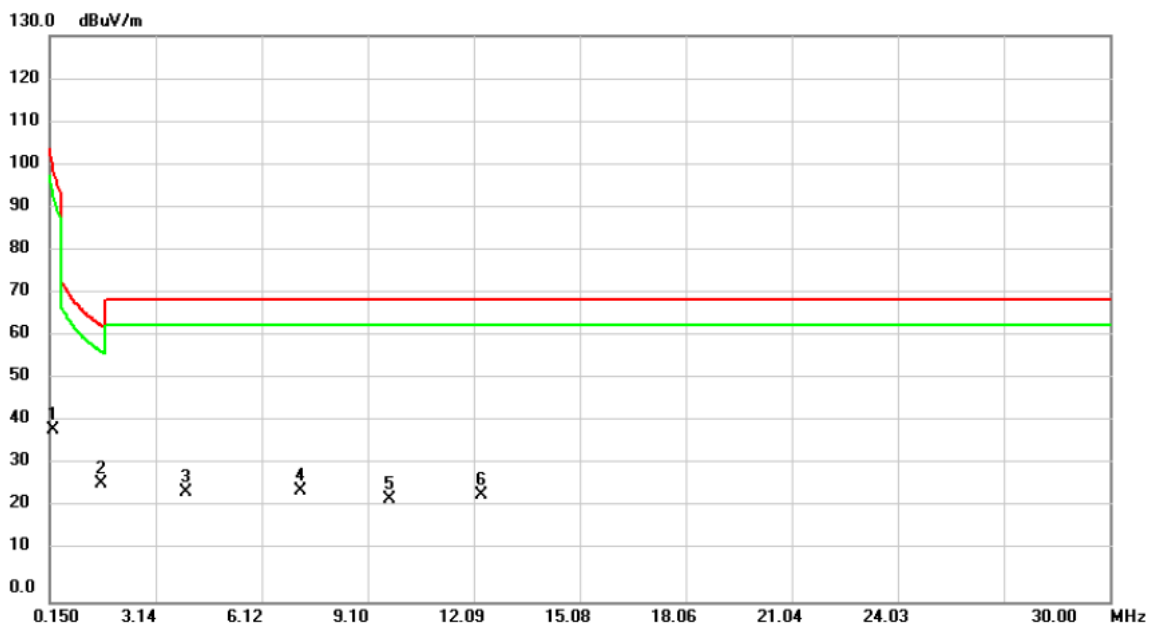
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.6276	29.14	2.25	31.39	71.65	-40.26	peak	
2		2.2196	29.36	-3.09	26.27	69.54	-43.27	peak	
3		3.8912	29.30	-3.78	25.52	69.54	-44.02	peak	
4		7.1548	29.37	-4.16	25.21	69.54	-44.33	peak	
5		8.8264	29.32	-4.65	24.67	69.54	-44.87	peak	
6		14.1994	28.90	-4.86	24.04	69.54	-45.50	peak	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Azimuth Angle	0°
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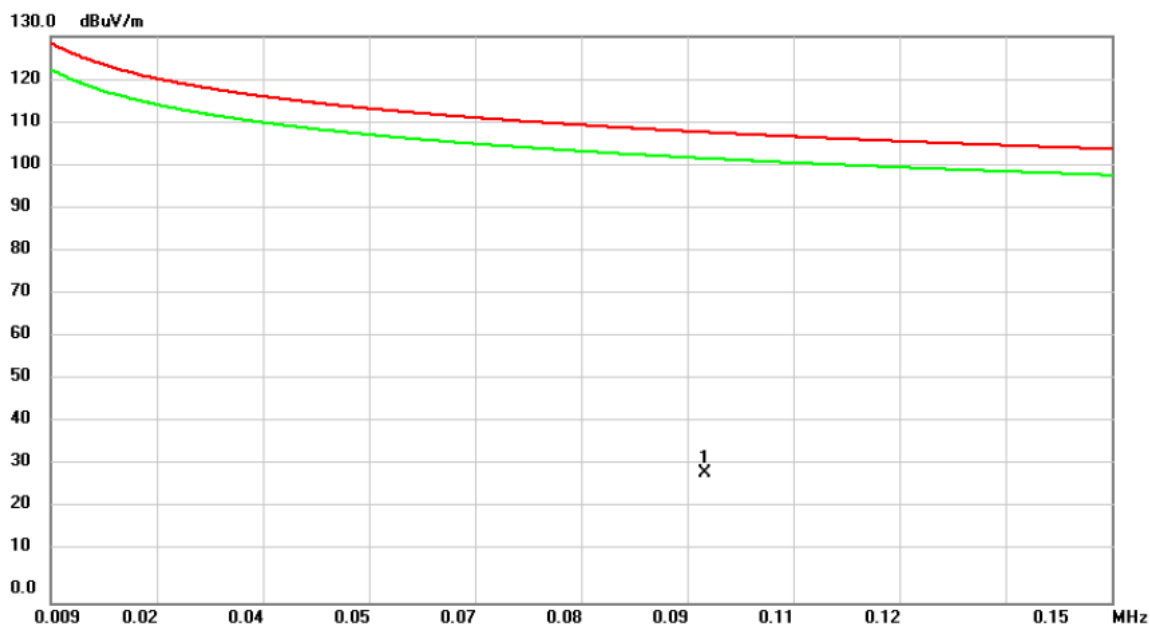
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.1040	13.53	15.80	29.33	107.26	-77.93	peak	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Azimuth Angle	0°
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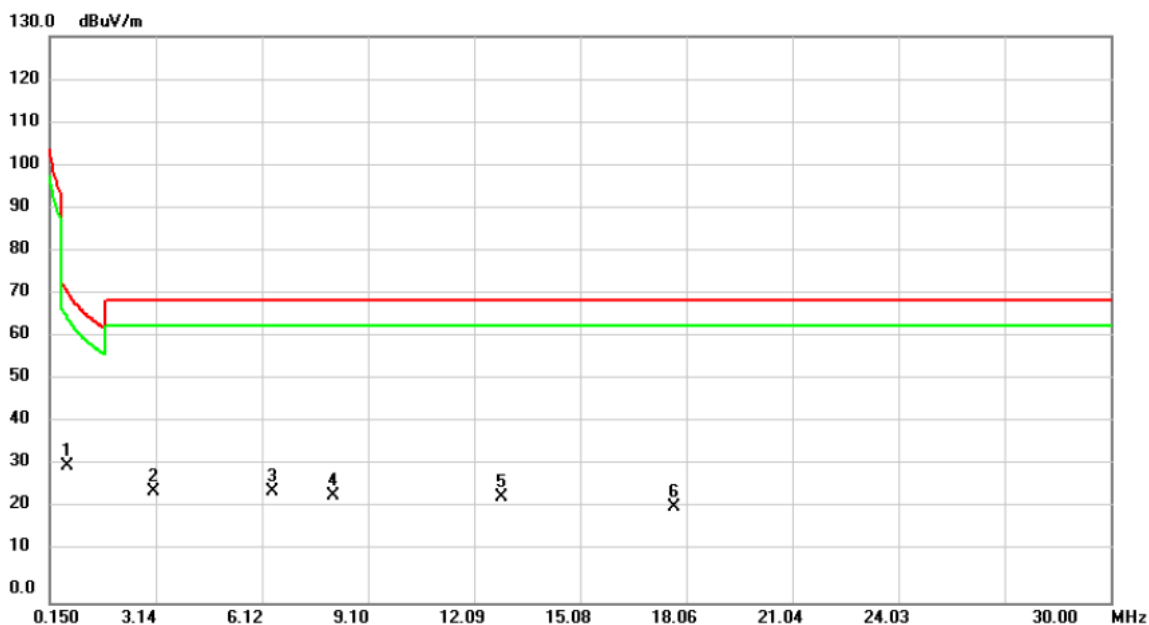
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.2296	30.14	9.36	39.50	100.38	-60.88	peak	
2	*	1.5828	29.07	-1.86	27.21	63.61	-36.40	peak	
3		3.9708	29.03	-3.79	25.24	69.54	-44.30	peak	
4		7.1946	29.81	-4.16	25.65	69.54	-43.89	peak	
5		9.7020	28.20	-4.71	23.49	69.54	-46.05	peak	
6		12.2890	29.21	-4.82	24.39	69.54	-45.15	peak	

Test Mode	UNII-3_TX A MODE 5745 MHz	Azimuth Angle	90°
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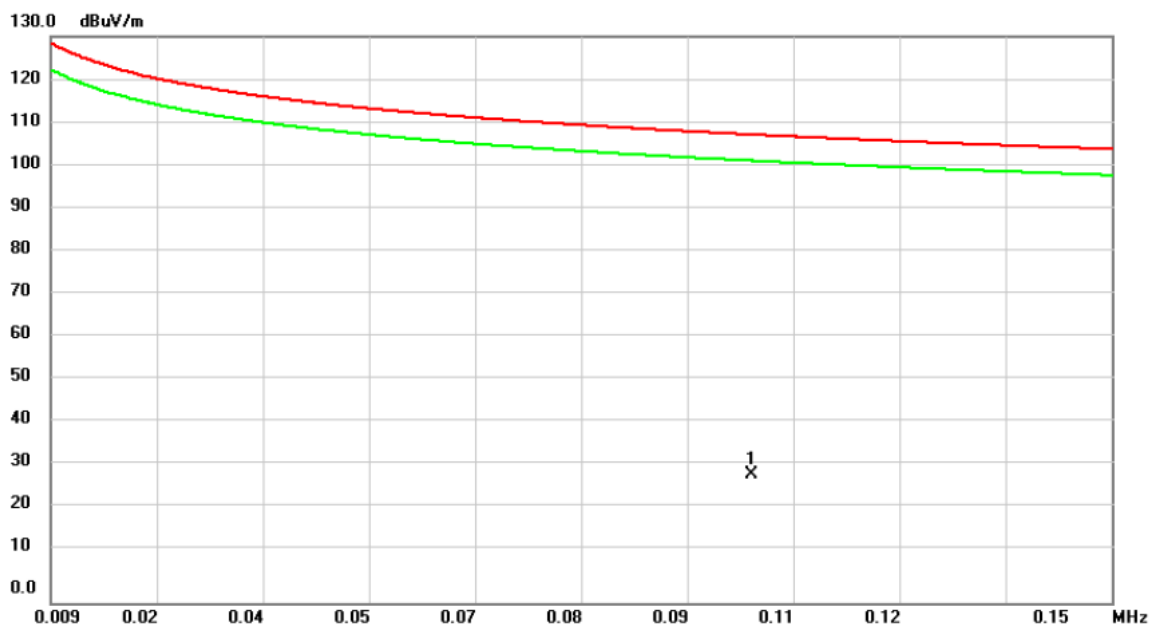
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0960	13.18	16.54	29.72	107.96	-78.24	peak	

Test Mode	UNII-3_TX A MODE 5745 MHz	Azimuth Angle	90°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.6276	29.14	2.25	31.39	71.65	-40.26	peak	
2		3.0554	29.08	-3.67	25.41	69.54	-44.13	peak	
3		6.3986	29.70	-4.06	25.64	69.54	-43.90	peak	
4		8.1100	29.03	-4.36	24.67	69.54	-44.87	peak	
5		12.8462	29.01	-4.82	24.19	69.54	-45.35	peak	
6		17.7416	28.17	-6.13	22.04	69.54	-47.50	peak	

Test Mode	UNII-3_TX A MODE 5745 MHz	Azimuth Angle	0°
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1022	13.47	15.90	29.37	107.42	-78.05	peak	

Test Mode	UNII-3_TX A MODE 5745 MHz	Azimuth Angle	0°
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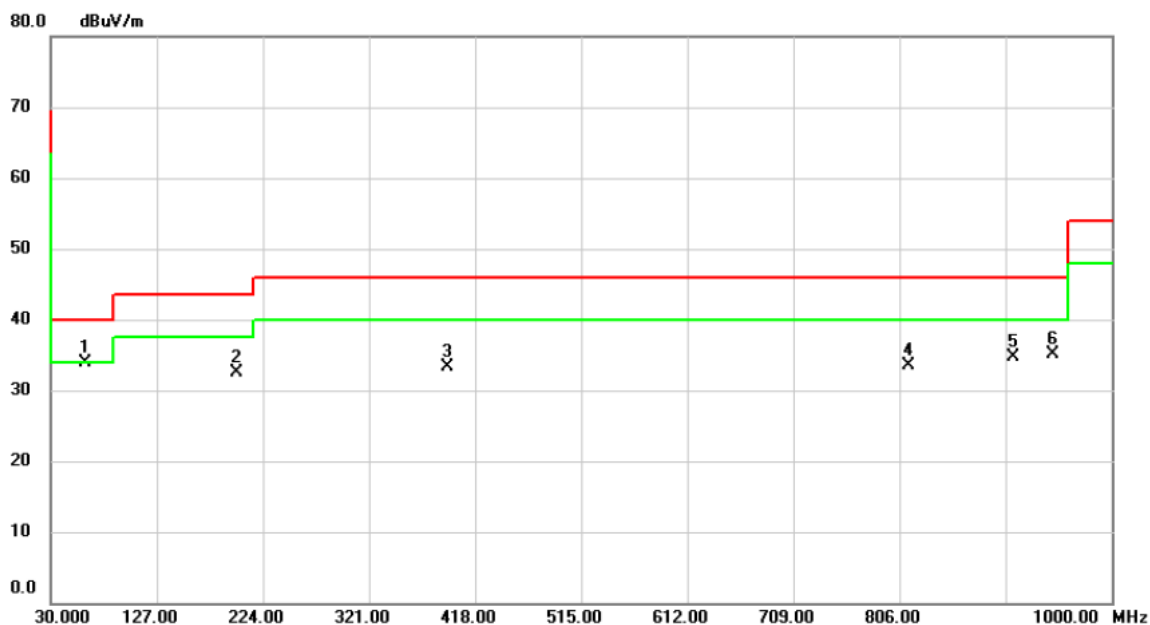


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.2296	30.14	9.36	39.50	100.38	-60.88	peak	
2	*	1.2245	29.21	-0.93	28.28	65.84	-37.56	peak	
3		3.9310	29.17	-3.78	25.39	69.54	-44.15	peak	
4		6.5578	29.32	-4.08	25.24	69.54	-44.30	peak	
5		9.3836	29.35	-4.71	24.64	69.54	-44.90	peak	
6		11.7318	29.61	-4.82	24.79	69.54	-44.75	peak	

APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1000 MHZ

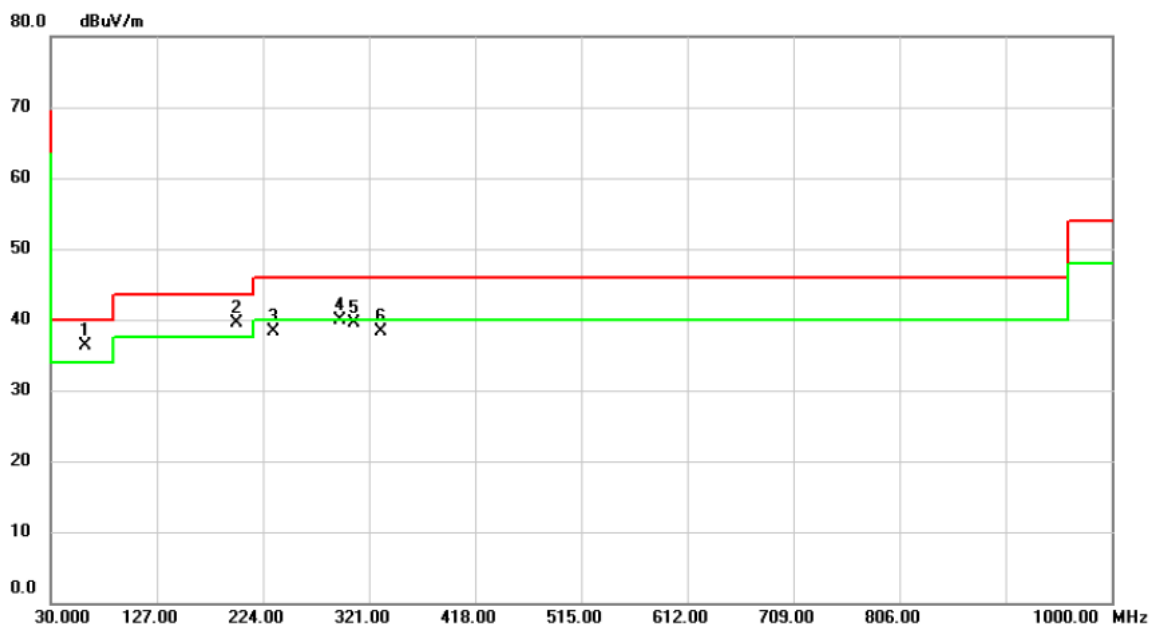
CONTINUE ON NEXT PAGE

Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Polarization	Vertical
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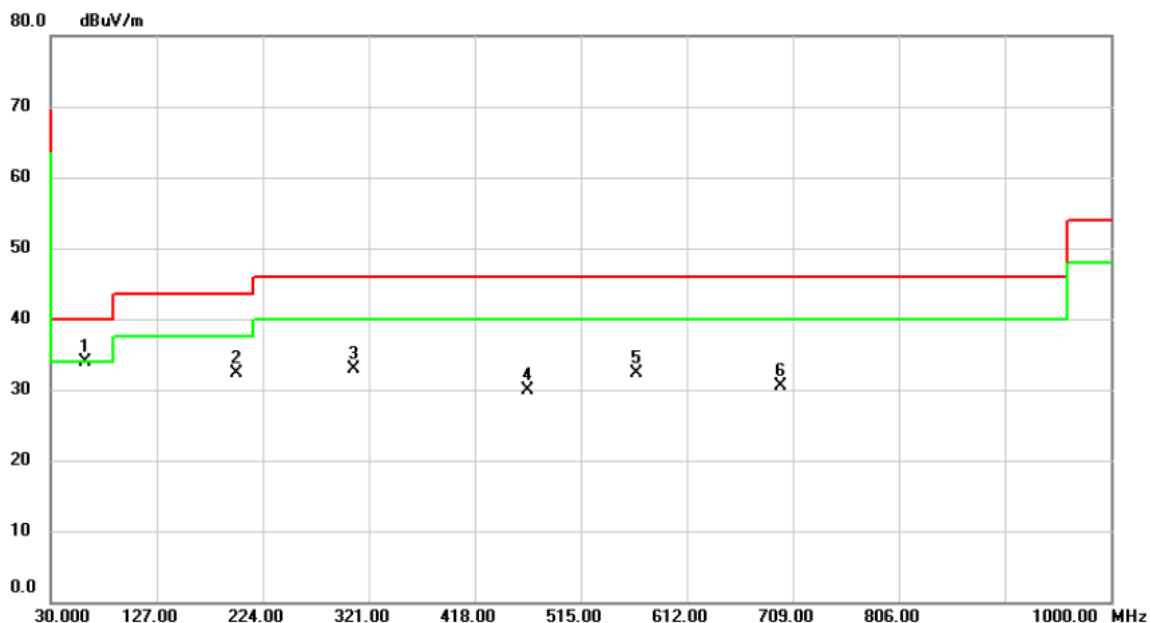
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	61.0400	42.94	-8.94	34.00	40.00	-6.00	peak	
2		199.7500	43.31	-10.90	32.41	43.50	-11.09	peak	
3		392.7800	38.49	-5.23	33.26	46.00	-12.74	peak	
4		813.7600	30.10	3.31	33.41	46.00	-12.59	peak	
5		909.7900	29.54	5.15	34.69	46.00	-11.31	peak	
6		946.6500	29.39	5.75	35.14	46.00	-10.86	peak	

Test Mode	UNII-1_TX N (HT20) MODE 5200 MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	61.0400	45.23	-8.94	36.29	40.00	-3.71	peak	
2	!	199.7500	50.32	-10.90	39.42	43.50	-4.08	peak	
3		233.7000	47.60	-9.39	38.21	46.00	-7.79	peak	
4		294.8100	47.61	-7.61	40.00	46.00	-6.00	peak	
5		307.4200	46.77	-7.32	39.45	46.00	-6.55	peak	
6		331.6700	45.06	-6.68	38.38	46.00	-7.62	peak	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Polarization	Vertical
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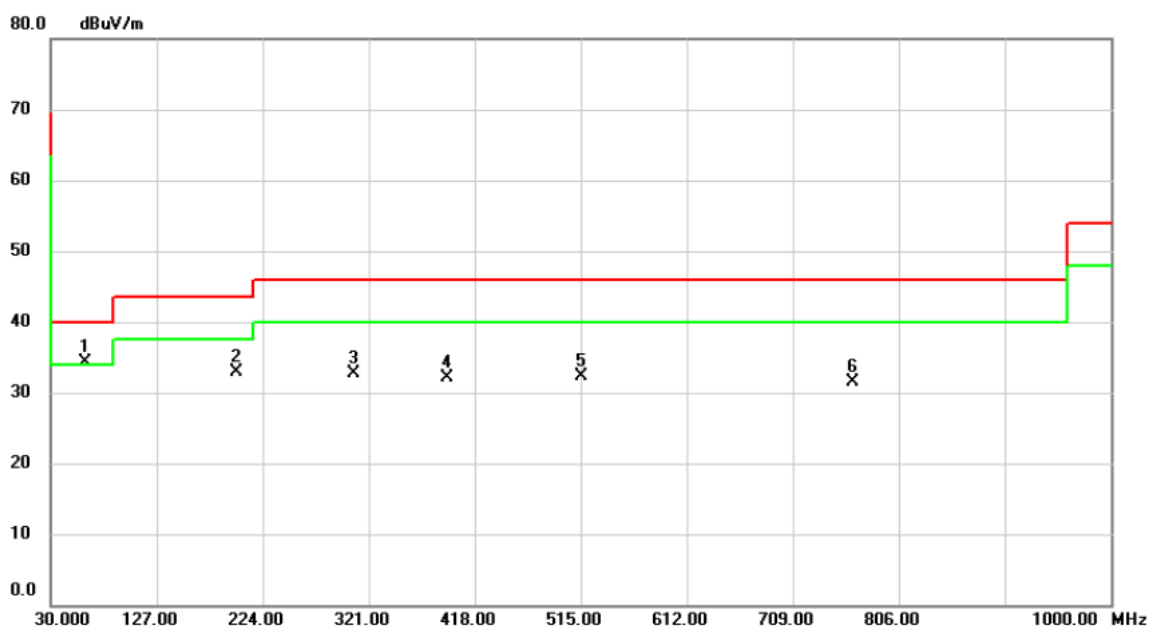
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	61.0400	42.79	-8.94	33.85	40.00	-6.15	peak	
2		199.7500	43.24	-10.90	32.34	43.50	-11.16	peak	
3		307.4200	40.15	-7.32	32.83	46.00	-13.17	peak	
4		466.5000	33.34	-3.51	29.83	46.00	-16.17	peak	
5		565.4400	33.83	-1.52	32.31	46.00	-13.69	peak	
6		698.3300	29.22	1.25	30.47	46.00	-15.53	peak	

Test Mode	UNII-2A_TX N (HT20) MODE 5320 MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	61.0400	45.39	-8.94	36.45	40.00	-3.55	peak	
2	!	199.7500	50.71	-10.90	39.81	43.50	-3.69	peak	
3		233.7000	47.58	-9.39	38.19	46.00	-7.81	peak	
4		294.8100	47.03	-7.61	39.42	46.00	-6.58	peak	
5		307.4200	46.18	-7.32	38.86	46.00	-7.14	peak	
6		331.6700	44.66	-6.68	37.98	46.00	-8.02	peak	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Polarization	Vertical
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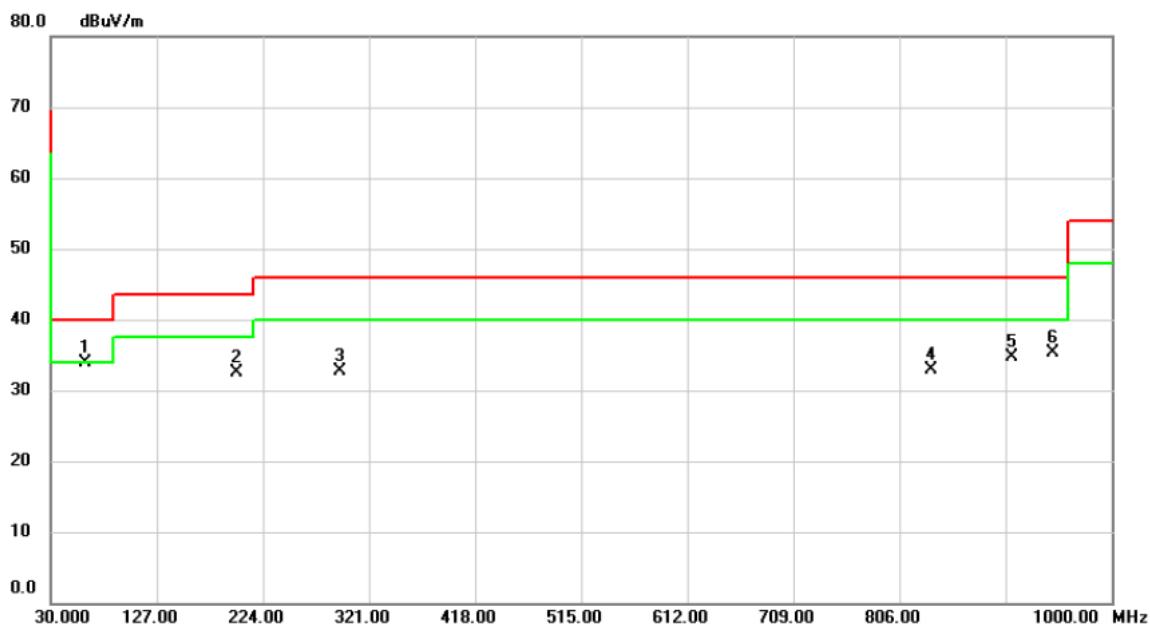
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	61.0400	43.19	-8.94	34.25	40.00	-5.75	peak	
2		199.7500	43.86	-10.90	32.96	43.50	-10.54	peak	
3		307.4200	40.02	-7.32	32.70	46.00	-13.30	peak	
4		392.7800	37.25	-5.23	32.02	46.00	-13.98	peak	
5		515.9700	34.98	-2.63	32.35	46.00	-13.65	peak	
6		764.2900	28.88	2.53	31.41	46.00	-14.59	peak	

Test Mode	UNII-2C_TX A MODE 5700 MHz	Polarization	Horizontal
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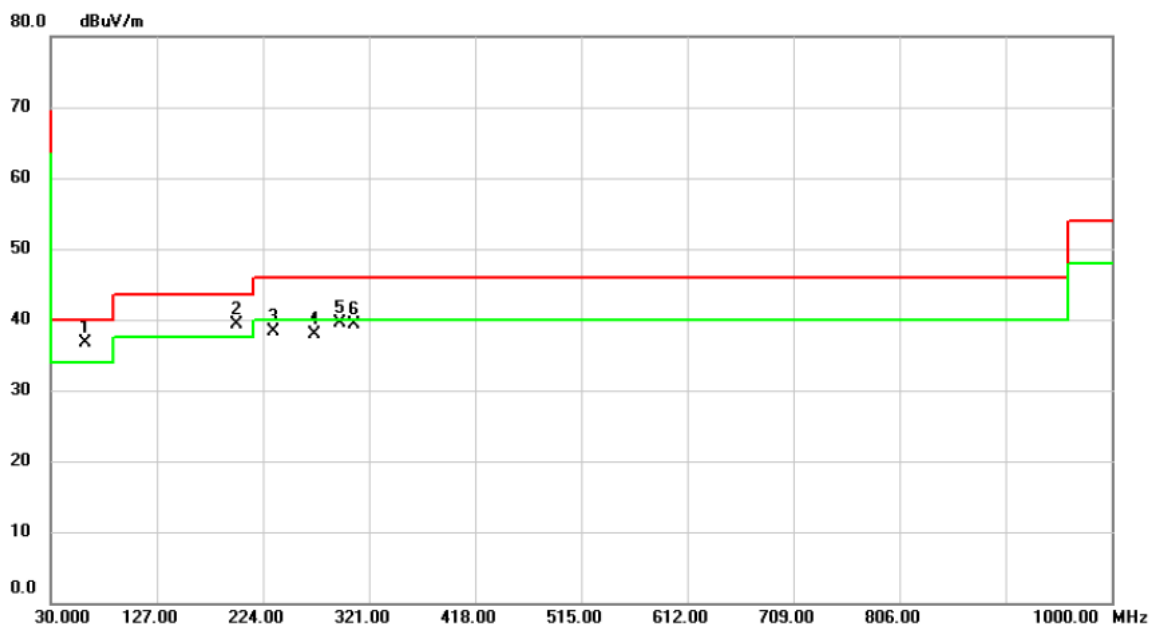
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	61.0400	45.17	-8.94	36.23	40.00	-3.77	peak	
2	*	199.7500	50.74	-10.90	39.84	43.50	-3.66	peak	
3		233.7000	47.85	-9.39	38.46	46.00	-7.54	peak	
4		294.8100	47.48	-7.61	39.87	46.00	-6.13	peak	
5		307.4200	46.84	-7.32	39.52	46.00	-6.48	peak	
6		331.6700	45.06	-6.68	38.38	46.00	-7.62	peak	

Test Mode	UNII-3_TX A MODE 5745 MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	61.0400	42.83	-8.94	33.89	40.00	-6.11	peak	
2		199.7500	43.33	-10.90	32.43	43.50	-11.07	peak	
3		294.8100	40.28	-7.61	32.67	46.00	-13.33	peak	
4		835.1000	29.28	3.70	32.98	46.00	-13.02	peak	
5		908.8200	29.53	5.13	34.66	46.00	-11.34	peak	
6		946.6500	29.53	5.75	35.28	46.00	-10.72	peak	

Test Mode	UNII-3_TX A MODE 5745 MHz	Polarization	Horizontal
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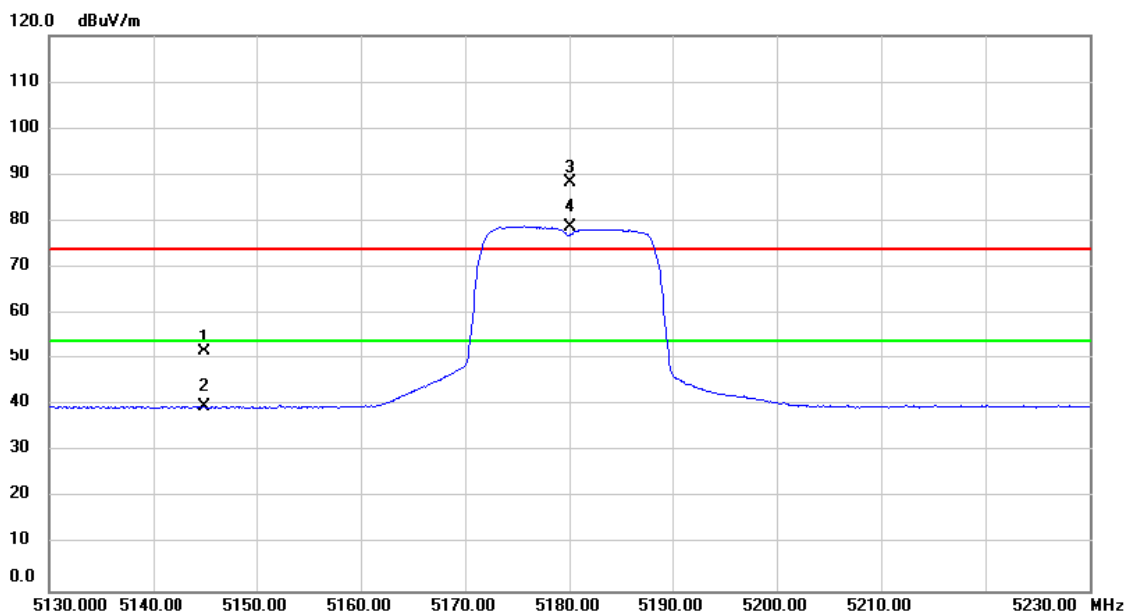
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	61.0400	45.58	-8.94	36.64	40.00	-3.36	peak	
2	!	199.7500	50.13	-10.90	39.23	43.50	-4.27	peak	
3		233.7000	47.73	-9.39	38.34	46.00	-7.66	peak	
4		270.5600	45.86	-8.00	37.86	46.00	-8.14	peak	
5		294.8100	47.08	-7.61	39.47	46.00	-6.53	peak	
6		307.4200	46.67	-7.32	39.35	46.00	-6.65	peak	

APPENDIX D RADIATED EMISSIONS - ABOVE 1000 MHZ

CONTINUE ON NEXT PAGE

Test MODE	UNII-1/ TX A MODE 5180MHz	Polarization	Vertical
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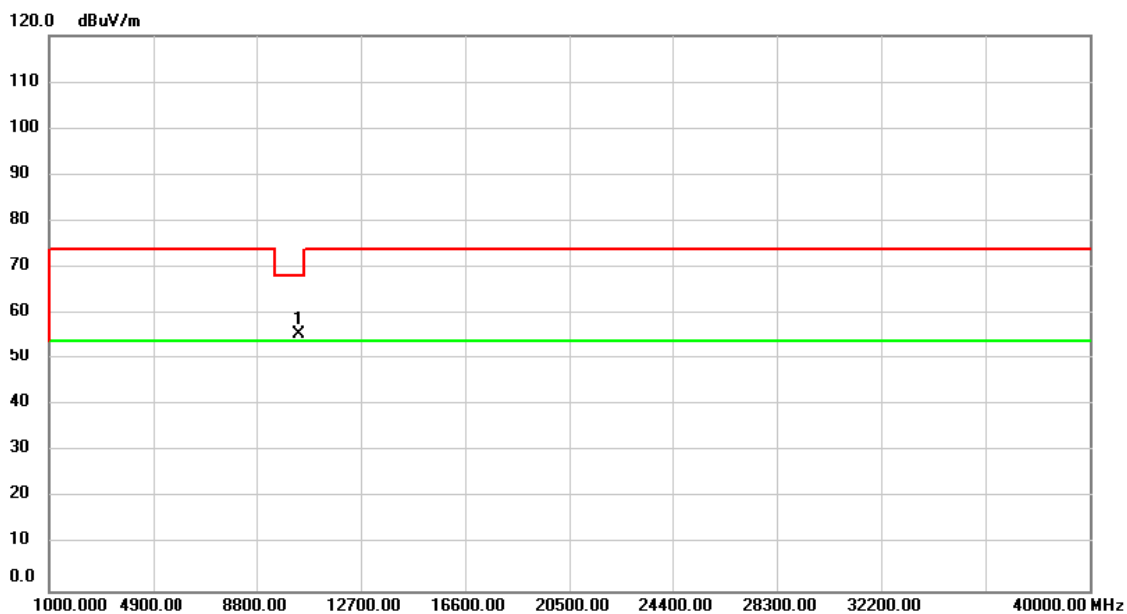
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5145.040	14.43	37.30	51.73	74.00	-22.27	peak	
2		5145.040	2.38	37.30	39.68	54.00	-14.32	AVG	
3	X	5180.000	51.10	37.34	88.44	74.00	14.44	peak	No Limit
4	*	5180.000	41.30	37.34	78.64	54.00	24.64	AVG	No Limit

Test MODE	UNII-1/ TX A MODE 5180MHz	Polarization	Vertical
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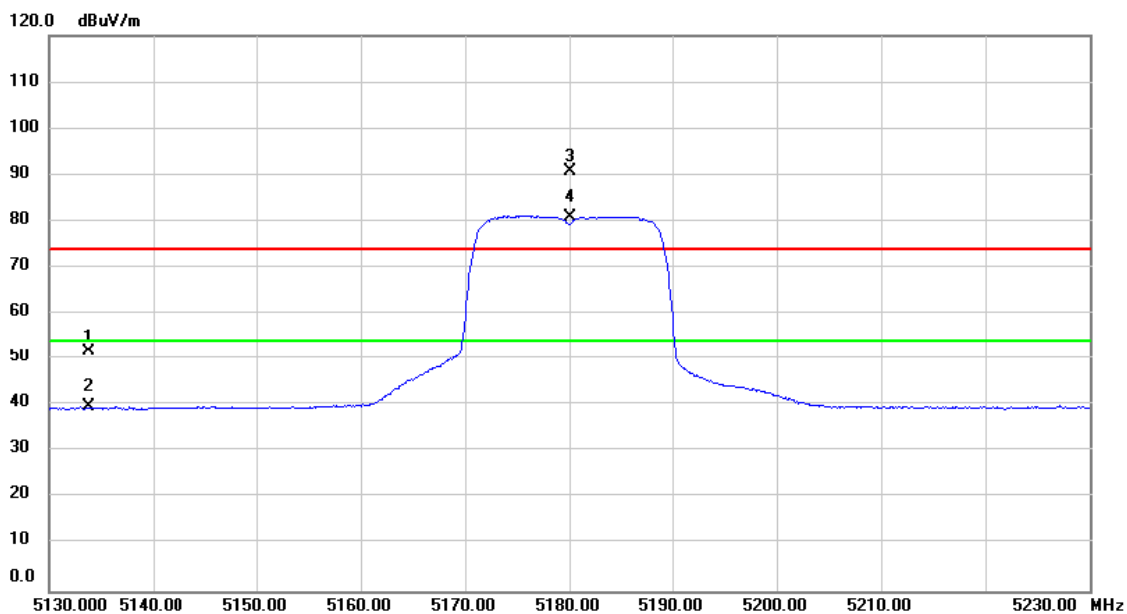
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10360.00	54.04	1.57	55.61	68.20	-12.59	peak	

Test MODE	UNII-1/ TX A MODE 5180MHz	Polarization	Horizontal
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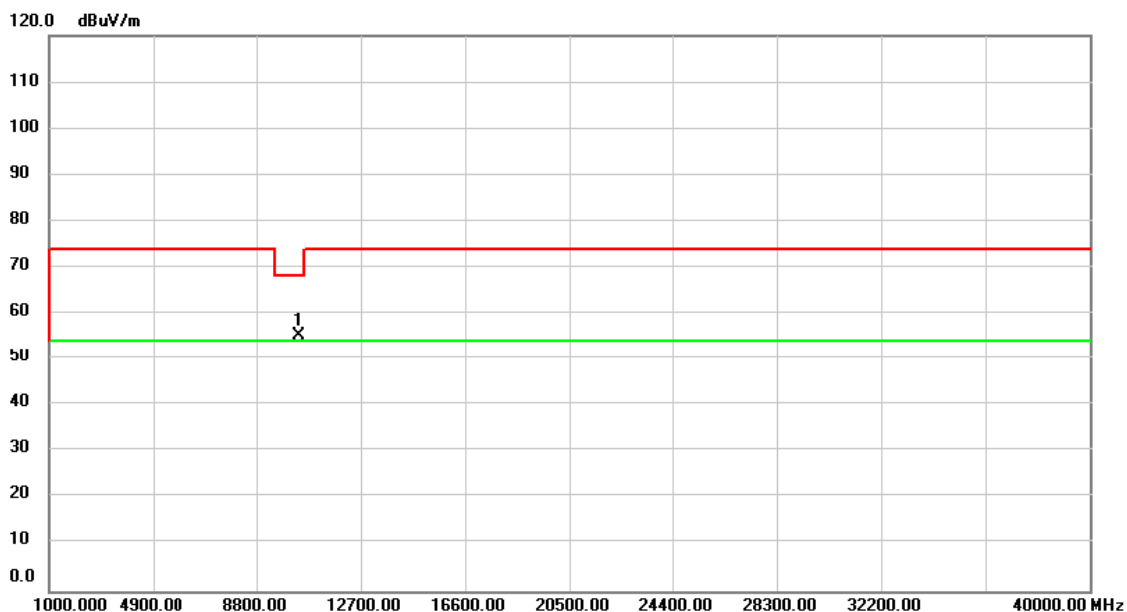
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5133.810	14.32	37.29	51.61	74.00	-22.39	peak	
2		5133.810	2.43	37.29	39.72	54.00	-14.28	AVG	
3	X	5180.000	53.32	37.34	90.66	74.00	16.66	peak	No Limit
4	*	5180.000	43.41	37.34	80.75	54.00	26.75	AVG	No Limit

Test MODE	UNII-1/ TX A MODE 5180MHz	Polarization	Horizontal
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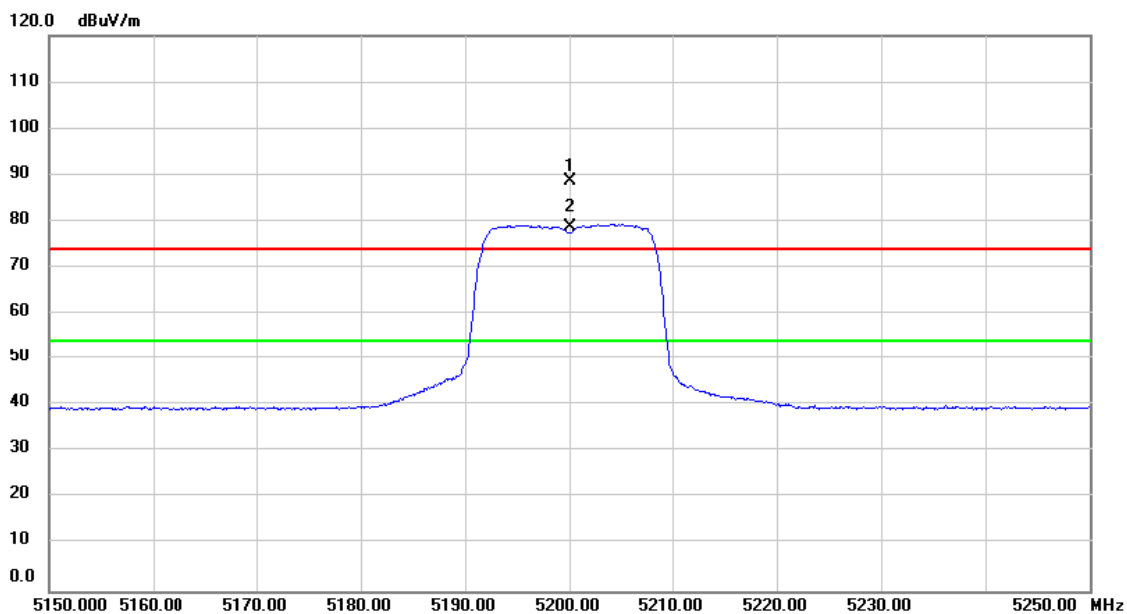
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	53.82	1.57	55.39	68.20	-12.81	peak	

Test MODE	UNII-1/ TX A MODE 5200MHz	Polarization	Vertical
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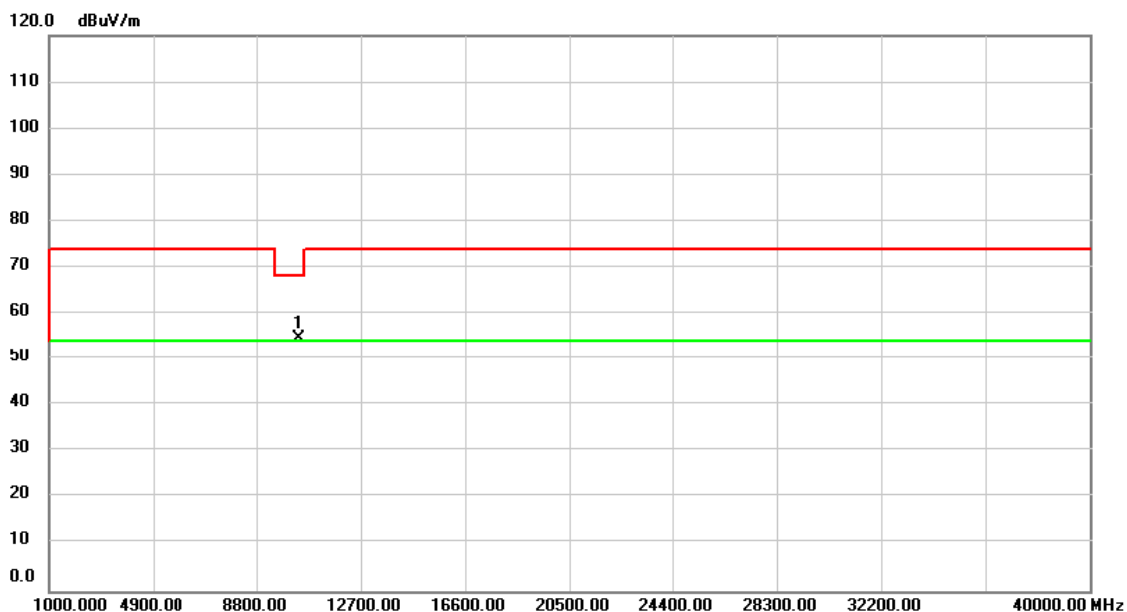
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	51.22	37.36	88.58	74.00	14.58	peak	No Limit
2	*	5200.000	41.45	37.36	78.81	54.00	24.81	AVG	No Limit

Test MODE	UNII-1/ TX A MODE 5200MHz	Polarization	Vertical
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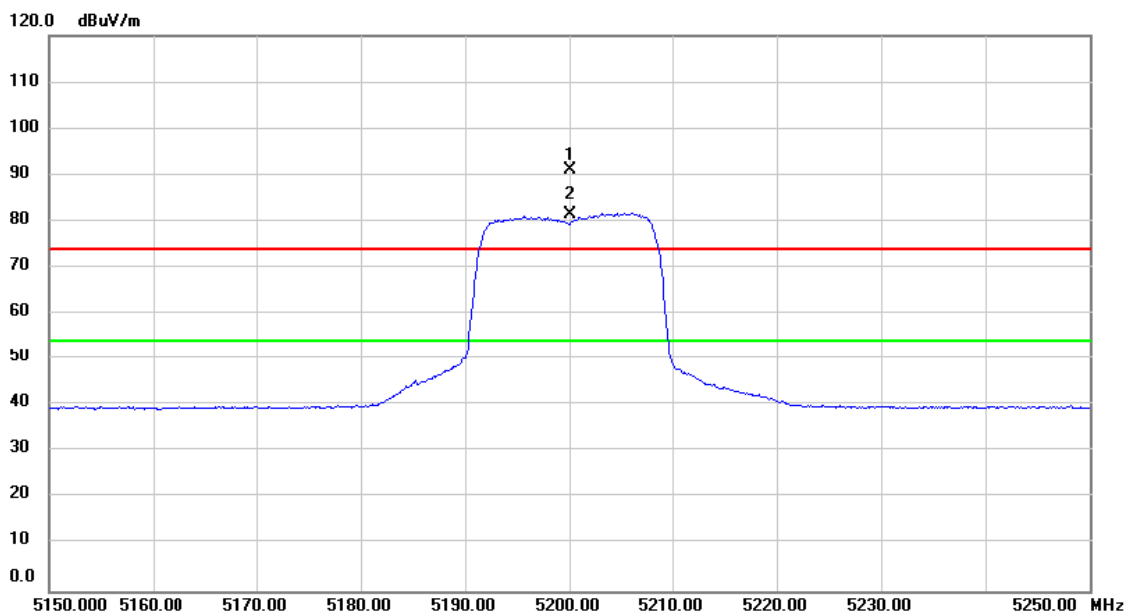
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	53.26	1.62	54.88	68.20	-13.32	peak	

Test MODE	UNII-1/ TX A MODE 5200MHz	Polarization	Horizontal
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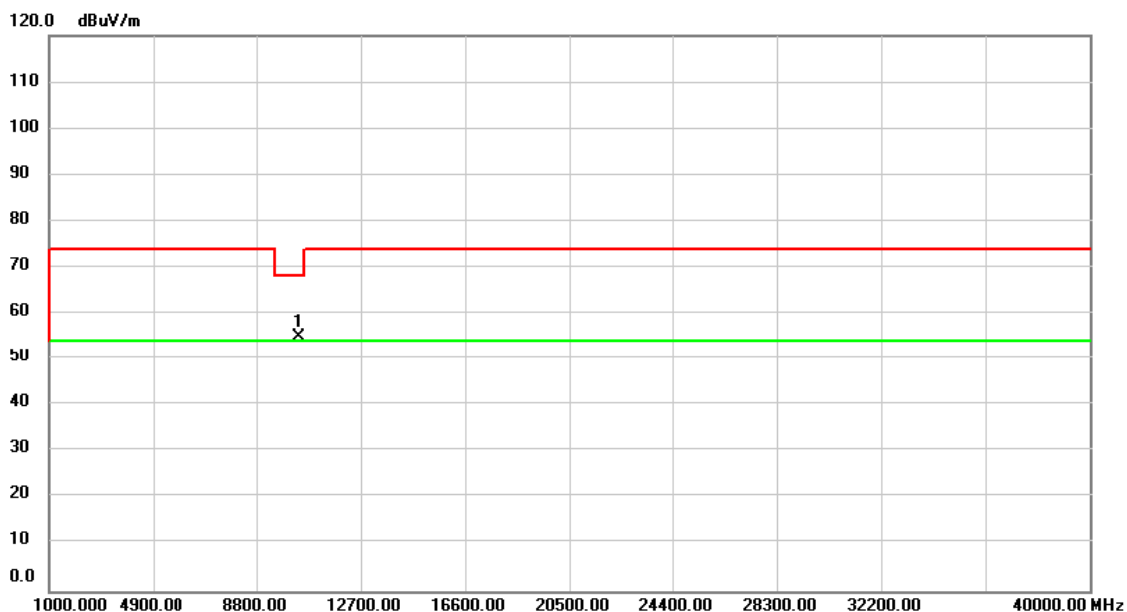
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	53.64	37.36	91.00	74.00	17.00	peak	No Limit
2	*	5200.000	44.01	37.36	81.37	54.00	27.37	AVG	No Limit

Test MODE	UNII-1/ TX A MODE 5200MHz	Polarization	Horizontal
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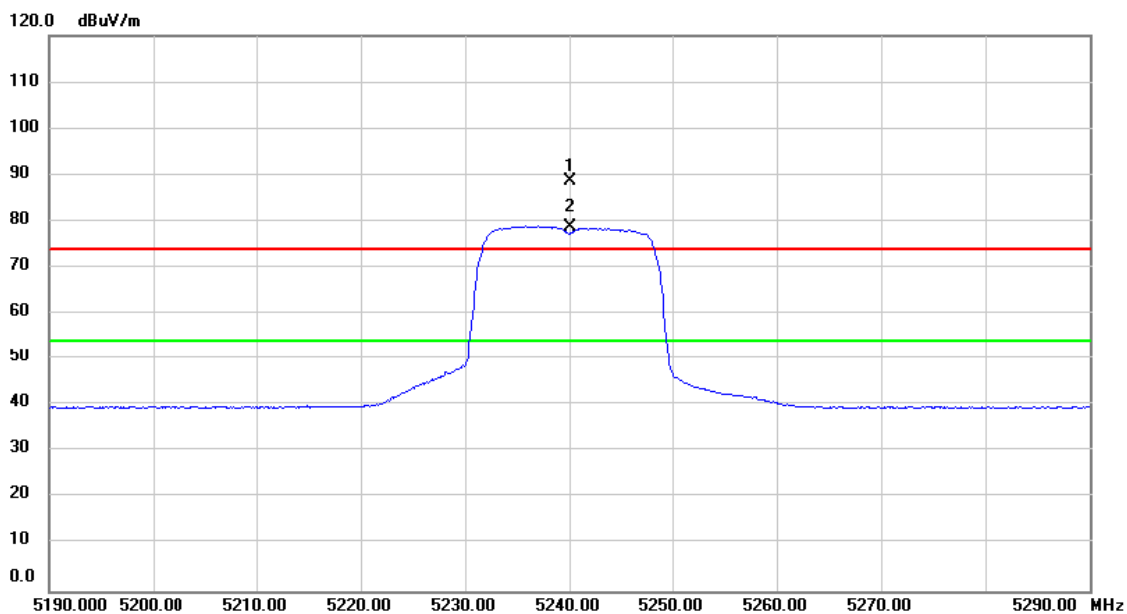
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	53.36	1.62	54.98	68.20	-13.22	peak	

Test MODE	UNII-1/ TX A MODE 5240MHz	Polarization	Vertical
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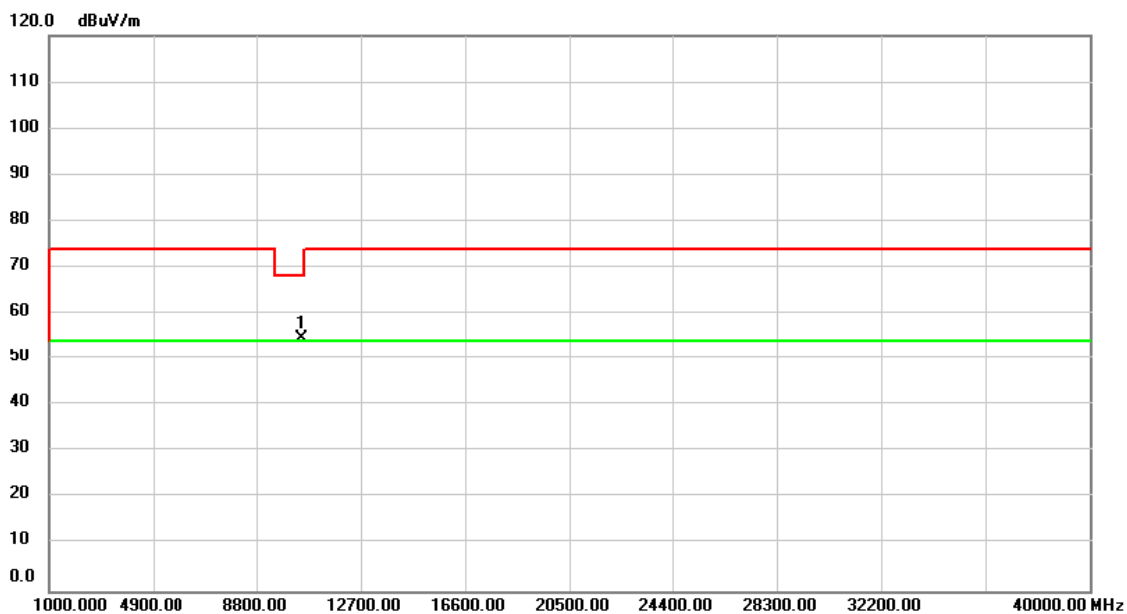
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	51.15	37.40	88.55	74.00	14.55	peak	No Limit
2	*	5240.000	41.35	37.40	78.75	54.00	24.75	AVG	No Limit

Test MODE	UNII-1/ TX A MODE 5240MHz	Polarization	Vertical
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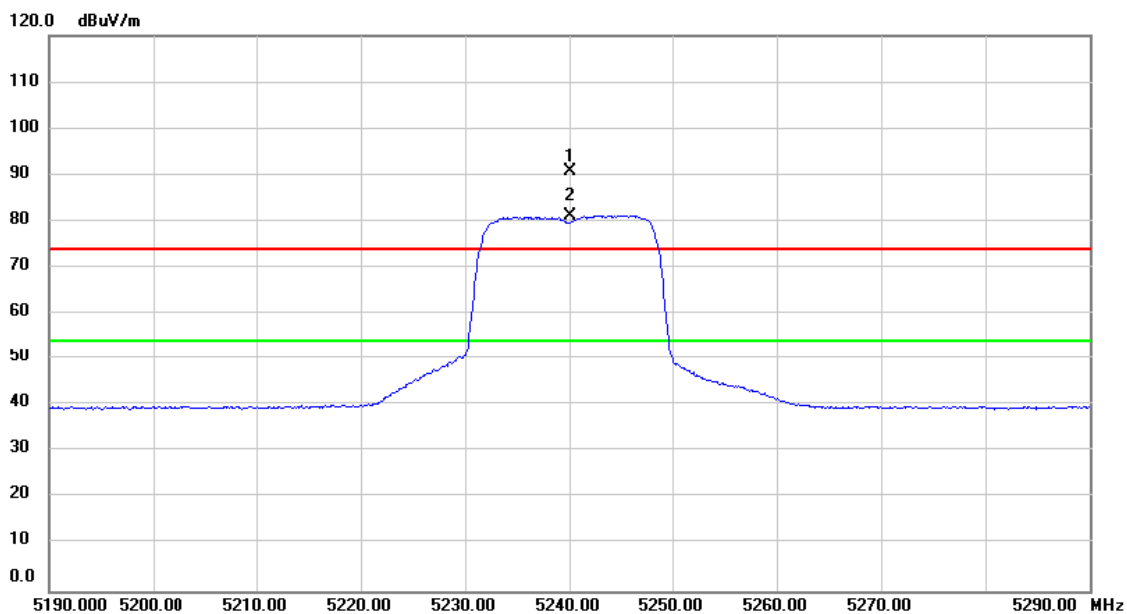
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	53.19	1.69	54.88	68.20	-13.32	peak	

Test MODE	UNII-1/ TX A MODE 5240MHz	Polarization	Horizontal
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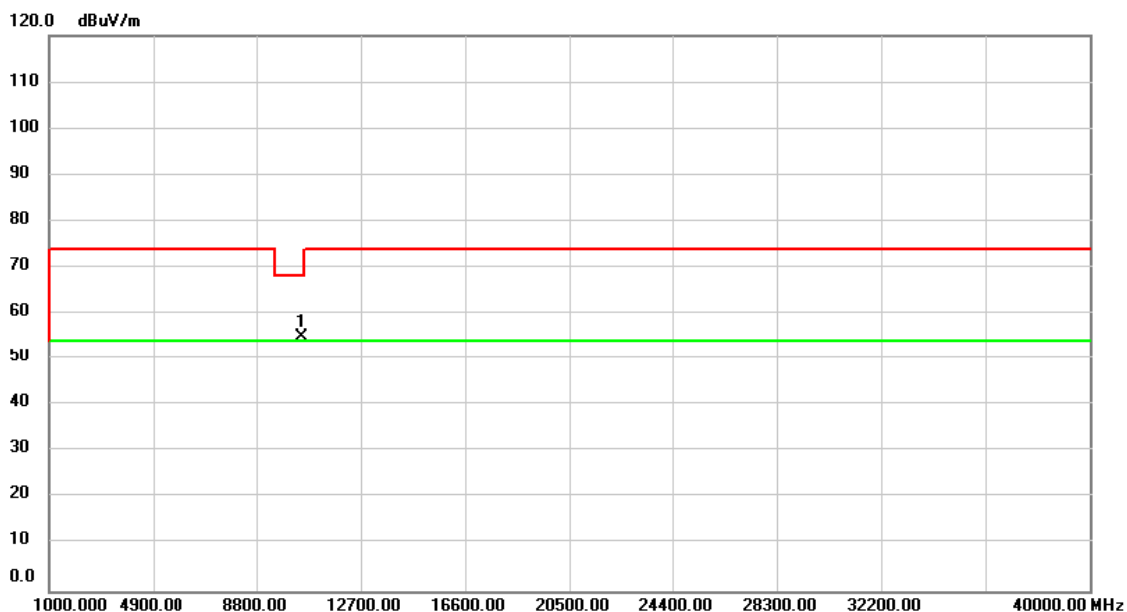
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	53.40	37.40	90.80	74.00	16.80	peak	No Limit
2	*	5240.000	43.85	37.40	81.25	54.00	27.25	AVG	No Limit

Test MODE	UNII-1/ TX A MODE 5240MHz	Polarization	Horizontal
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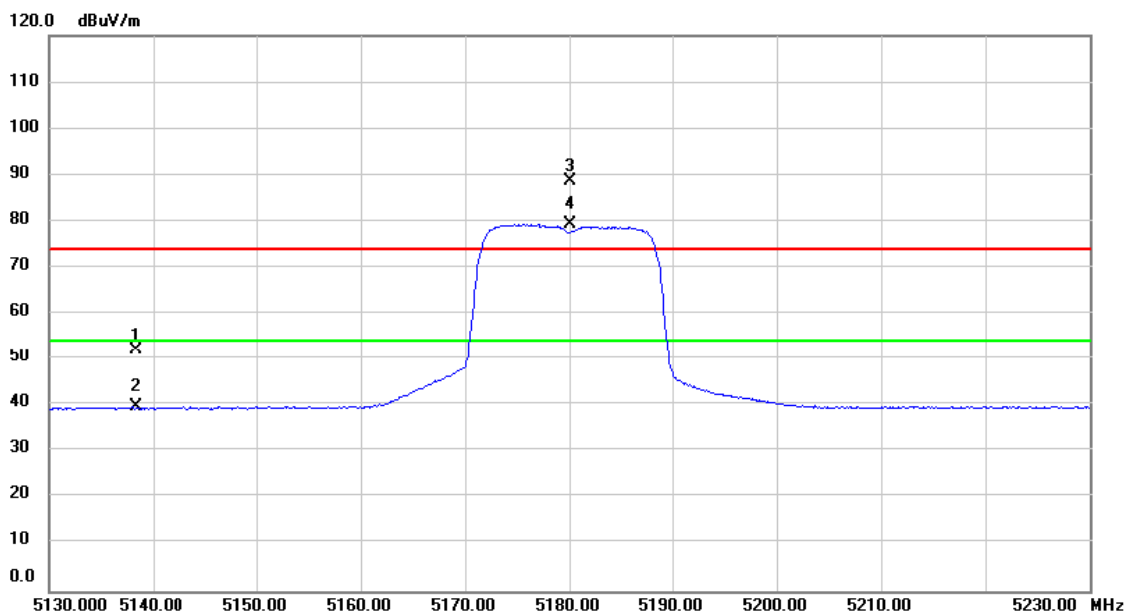
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	53.31	1.69	55.00	68.20	-13.20	peak	

Test MODE UNII-1/ TX N (HT20) MODE 5180MHz Polarization Vertical

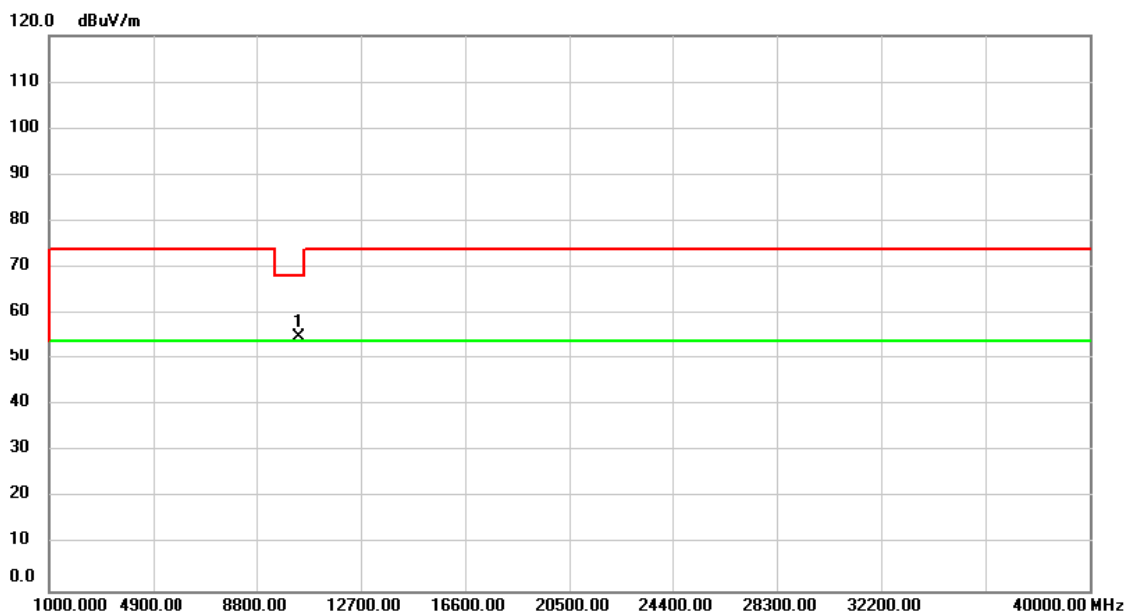
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5138.320	14.81	37.29	52.10	74.00	-21.90	peak	
2		5138.320	2.48	37.29	39.77	54.00	-14.23	AVG	
3	X	5180.000	51.45	37.34	88.79	74.00	14.79	peak	No Limit
4	*	5180.000	41.90	37.34	79.24	54.00	25.24	AVG	No Limit

Test MODE	UNII-1/ TX N (HT20) MODE 5180MHz	Polarization	Vertical
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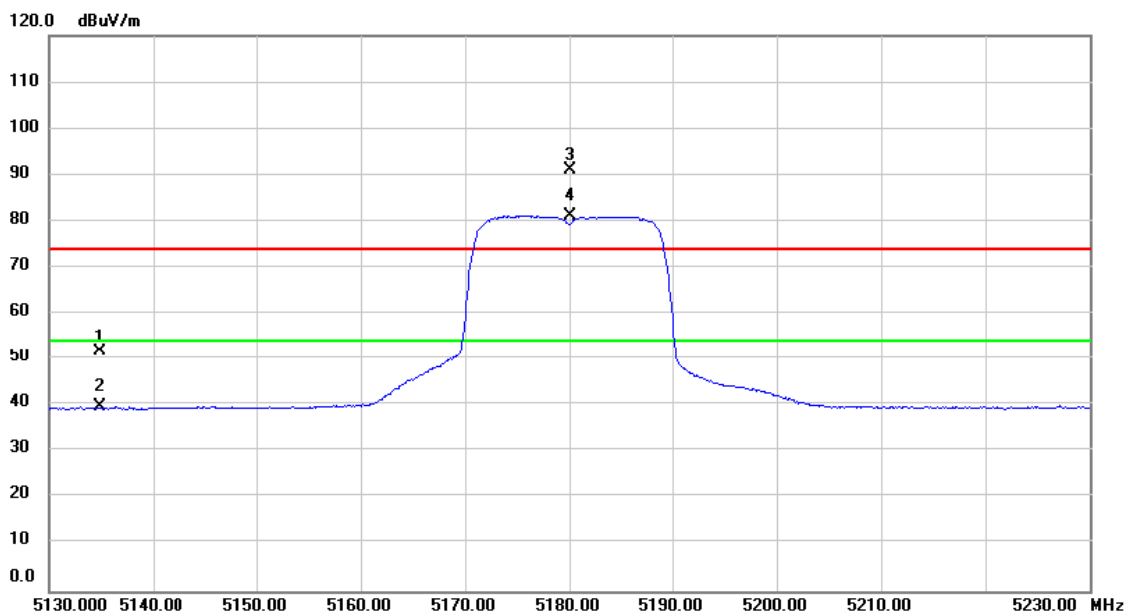
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	53.43	1.57	55.00	68.20	-13.20	peak	

Test MODE UNII-1/ TX N (HT20) MODE 5180MHz Polarization Horizontal

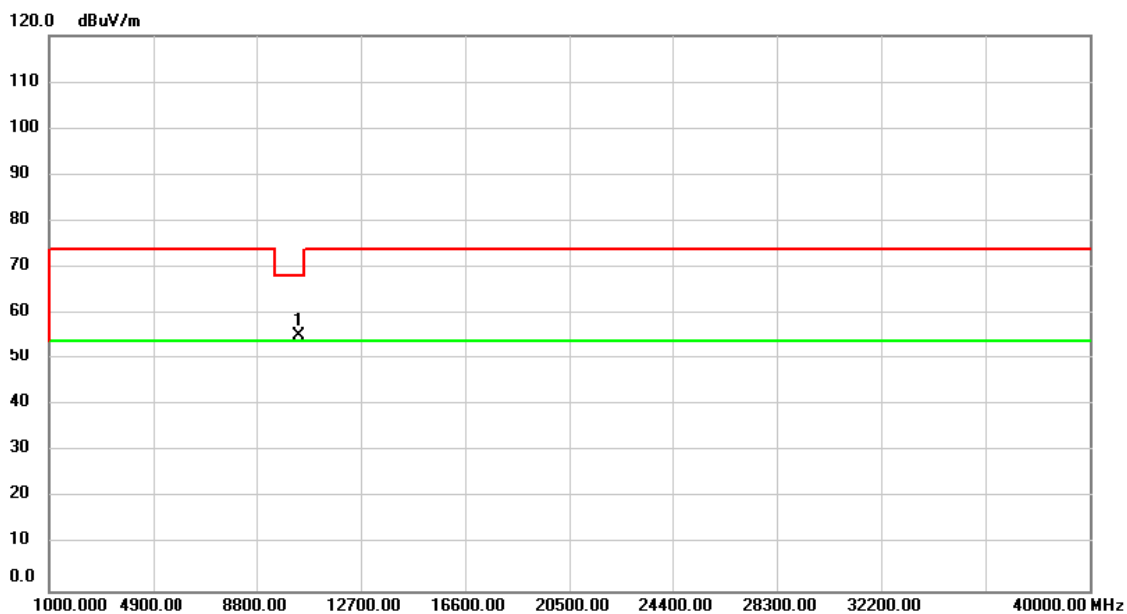
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5134.920	14.48	37.29	51.77	74.00	-22.23	peak	
2		5134.920	2.56	37.29	39.85	54.00	-14.15	AVG	
3	X	5180.000	53.80	37.34	91.14	74.00	17.14	peak	No Limit
4	*	5180.000	43.91	37.34	81.25	54.00	27.25	AVG	No Limit

Test MODE	UNII-1/ TX N (HT20) MODE 5180MHz	Polarization	Horizontal
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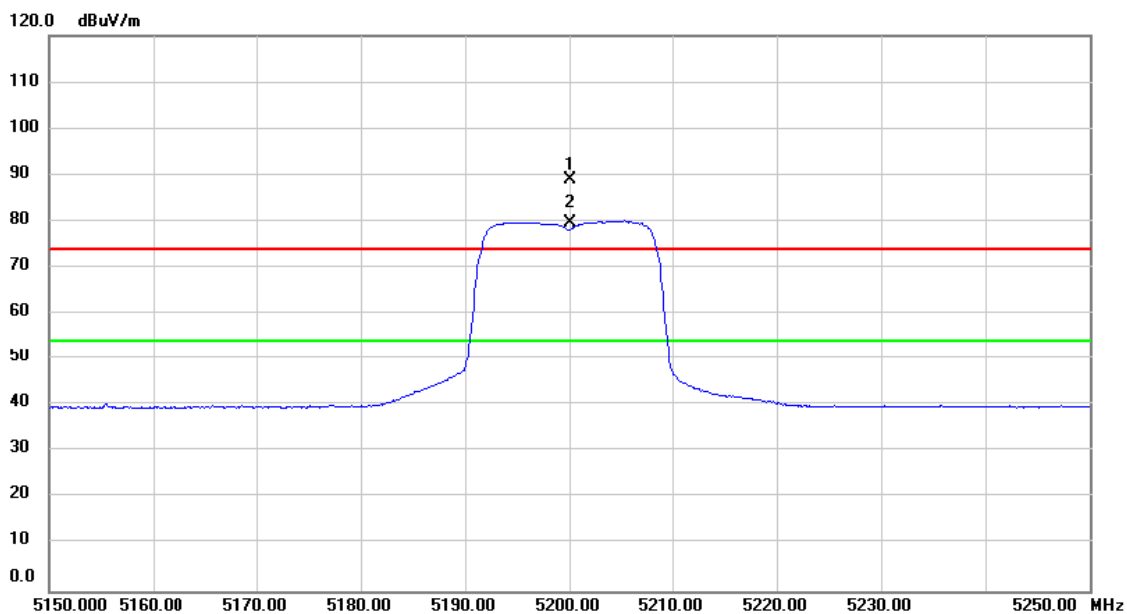
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10360.00	53.87	1.57	55.44	68.20	-12.76	peak	

Test MODE	UNII-1/ TX N (HT20) MODE 5200MHz	Polarization	Vertical
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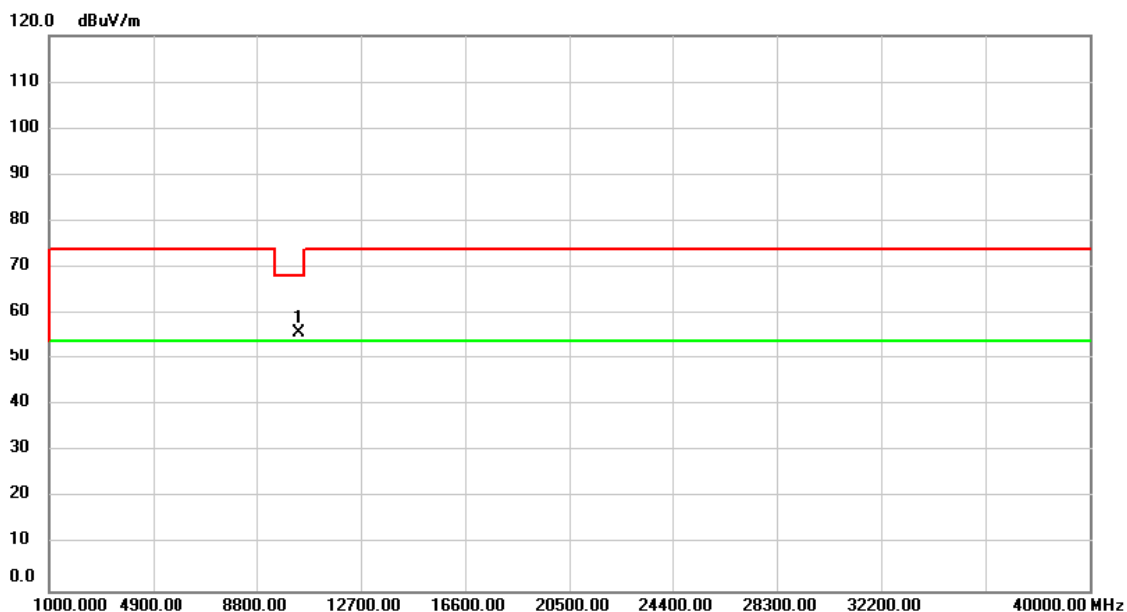
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	51.63	37.36	88.99	74.00	14.99	peak	No Limit
2	*	5200.000	42.15	37.36	79.51	54.00	25.51	AVG	No Limit

Test MODE	UNII-1/ TX N (HT20) MODE 5200MHz	Polarization	Vertical
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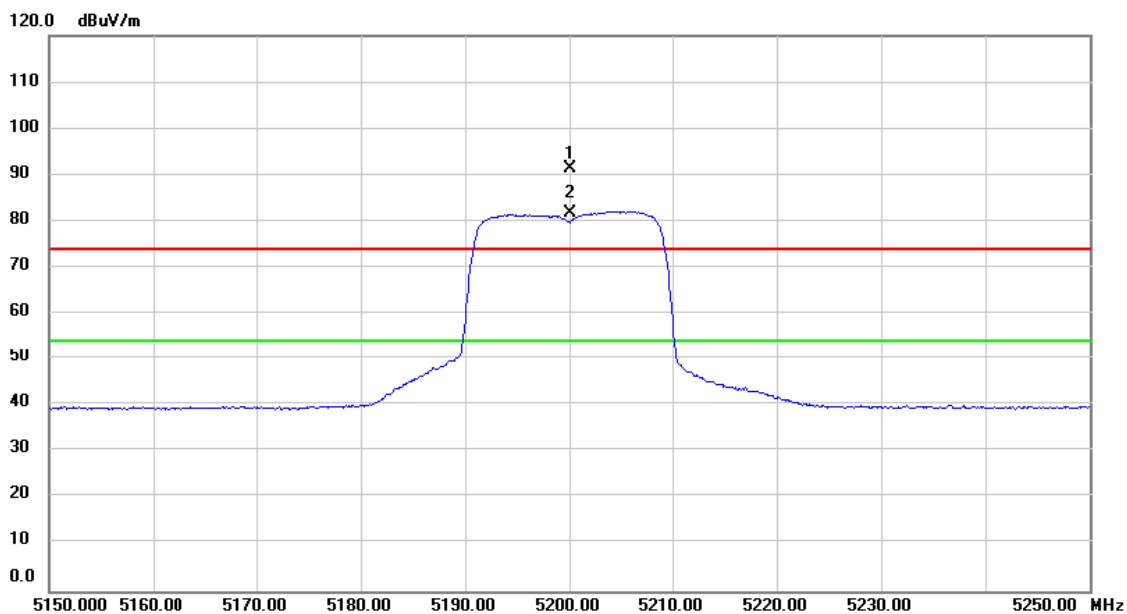
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10400.00	54.26	1.62	55.88	68.20	-12.32	peak	

Test MODE	UNII-1/ TX N (HT20) MODE 5200MHz	Polarization	Horizontal
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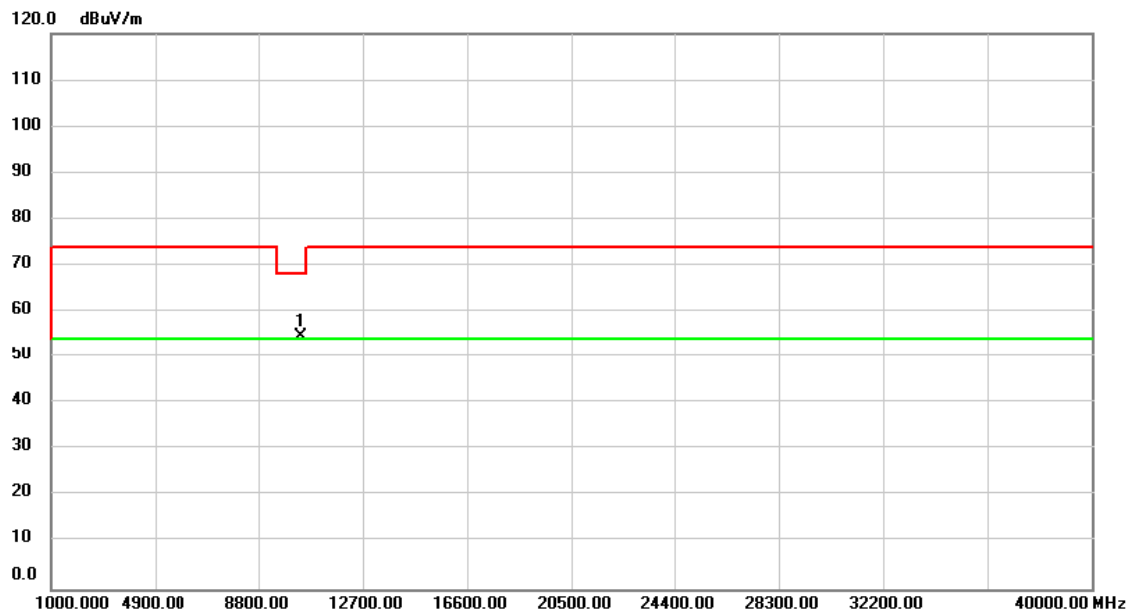
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	54.06	37.36	91.42	74.00	17.42	peak	No Limit
2	*	5200.000	44.32	37.36	81.68	54.00	27.68	AVG	No Limit

Test MODE	UNII-1/ TX N (HT20) MODE 5200MHz	Polarization	Horizontal
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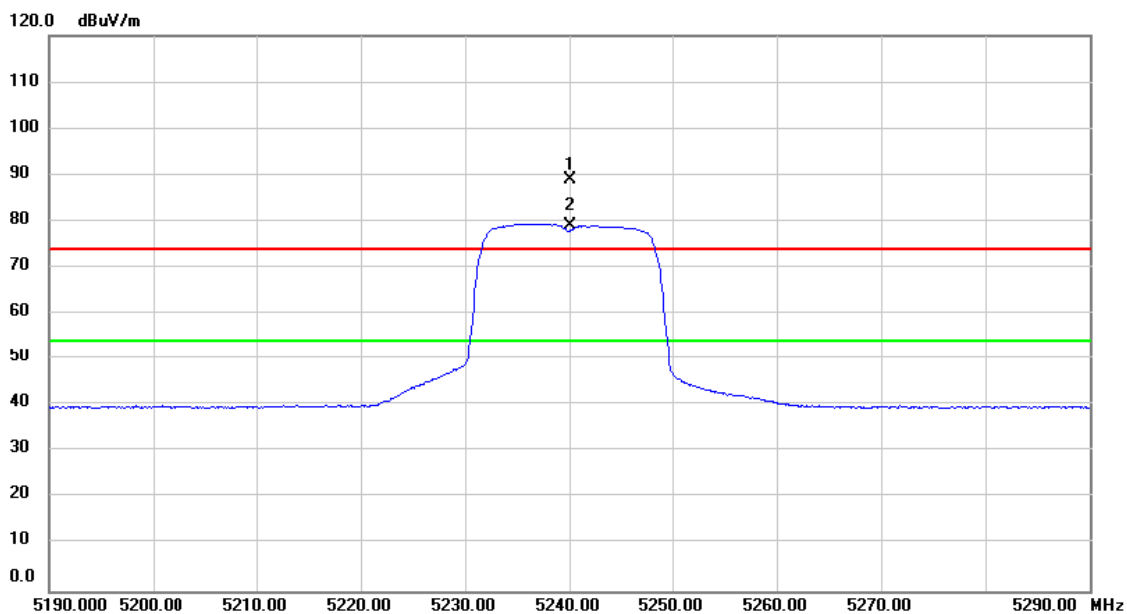
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10400.00	53.15	1.62	54.77	68.20	-13.43	peak	

Test MODE	UNII-1/ TX N (HT20) MODE 5240MHz	Polarization	Vertical
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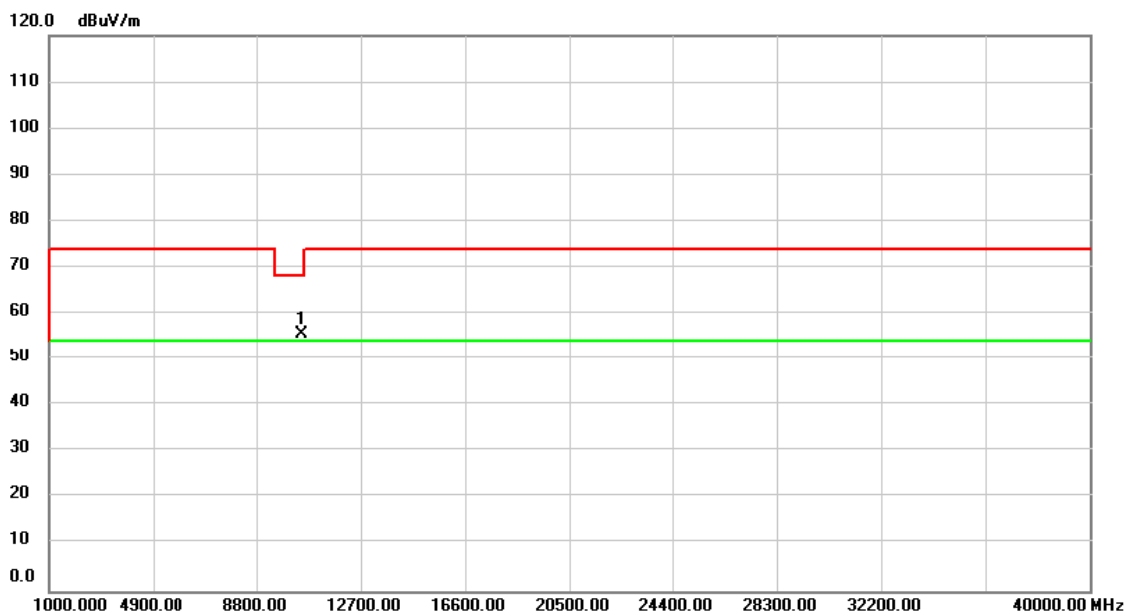
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	51.56	37.40	88.96	74.00	14.96	peak	No Limit
2	*	5240.000	41.76	37.40	79.16	54.00	25.16	AVG	No Limit

Test MODE	UNII-1/ TX N (HT20) MODE 5240MHz	Polarization	Vertical
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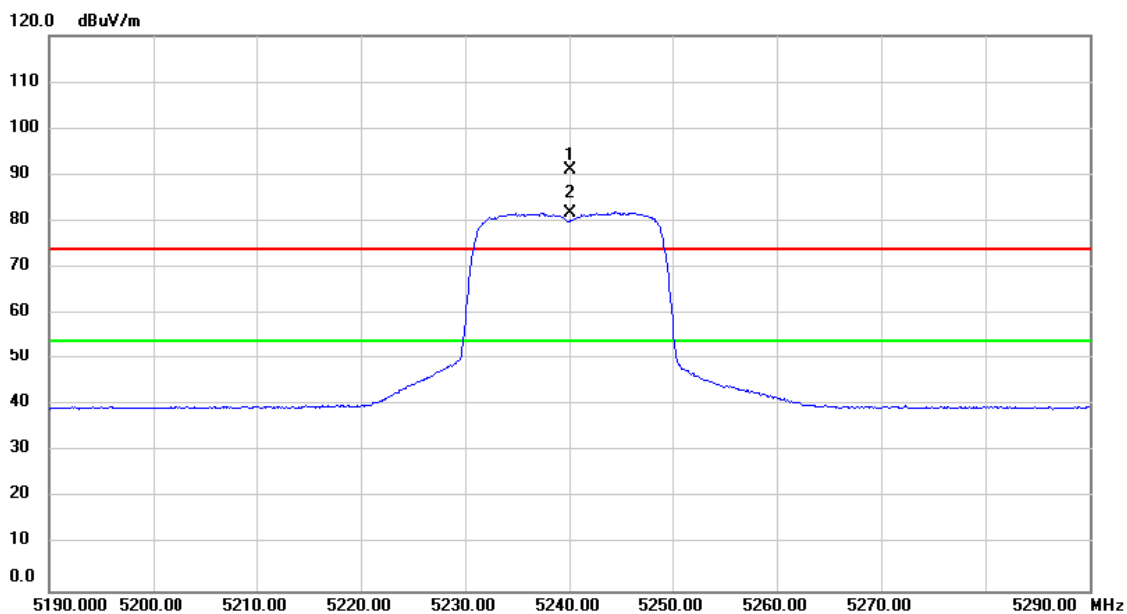
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	53.98	1.69	55.67	68.20	-12.53	peak	

Test MODE	UNII-1/ TX N (HT20) MODE 5240MHz	Polarization	Horizontal
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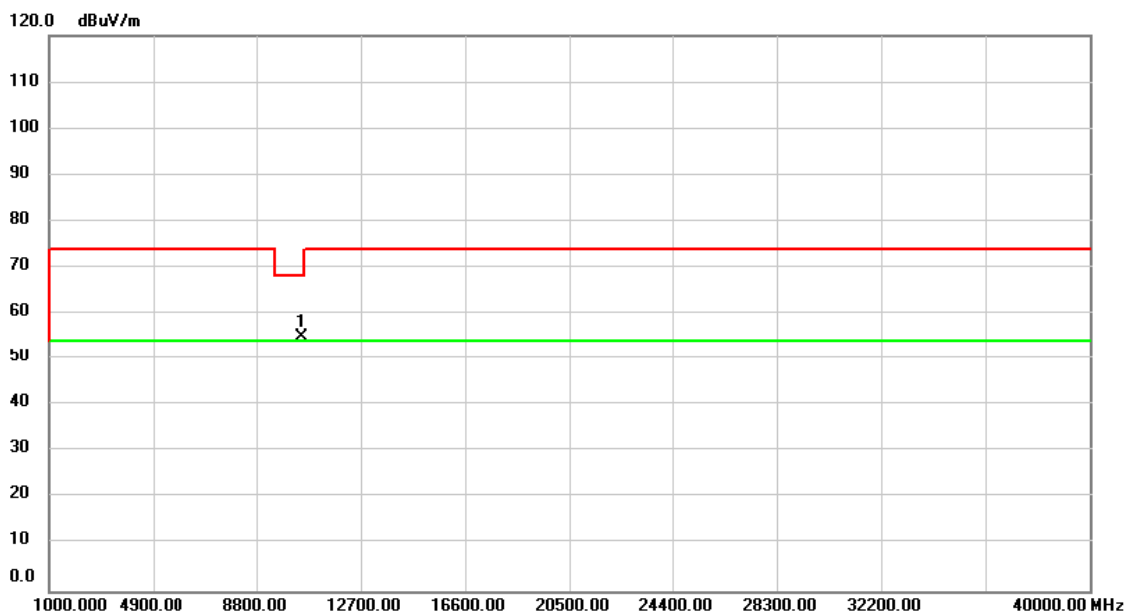
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	53.69	37.40	91.09	74.00	17.09	peak	No Limit
2	*	5240.000	44.34	37.40	81.74	54.00	27.74	AVG	No Limit

Test MODE	UNII-1/ TX N (HT20) MODE 5240MHz	Polarization	Horizontal
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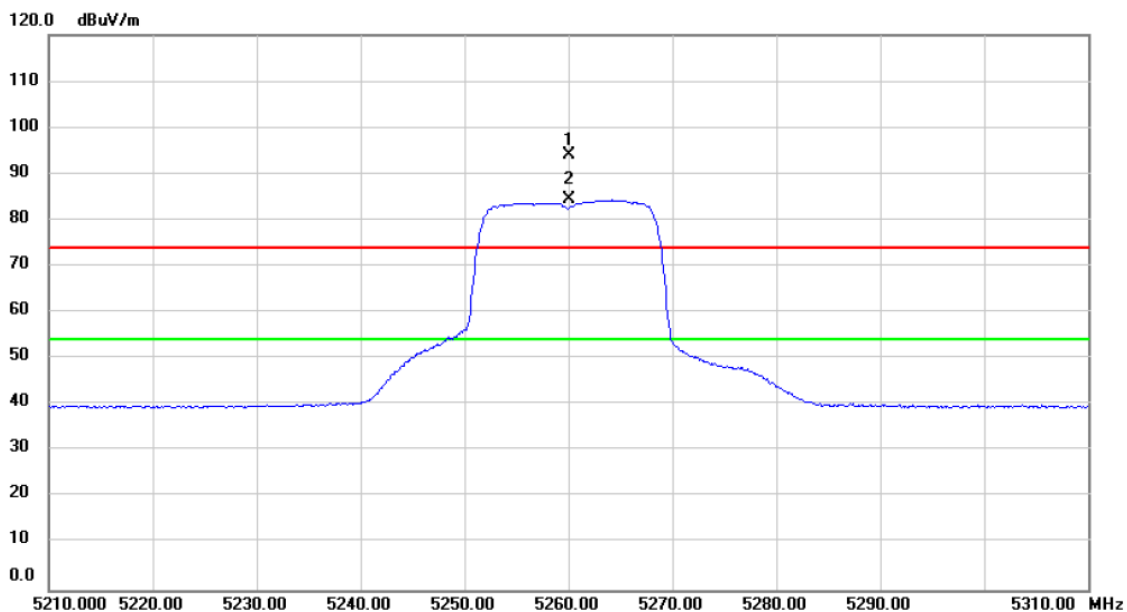
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	53.26	1.69	54.95	68.20	-13.25	peak	

Test MODE	UNII-2A/ TX A MODE 5260MHz	Polarization	Vertical
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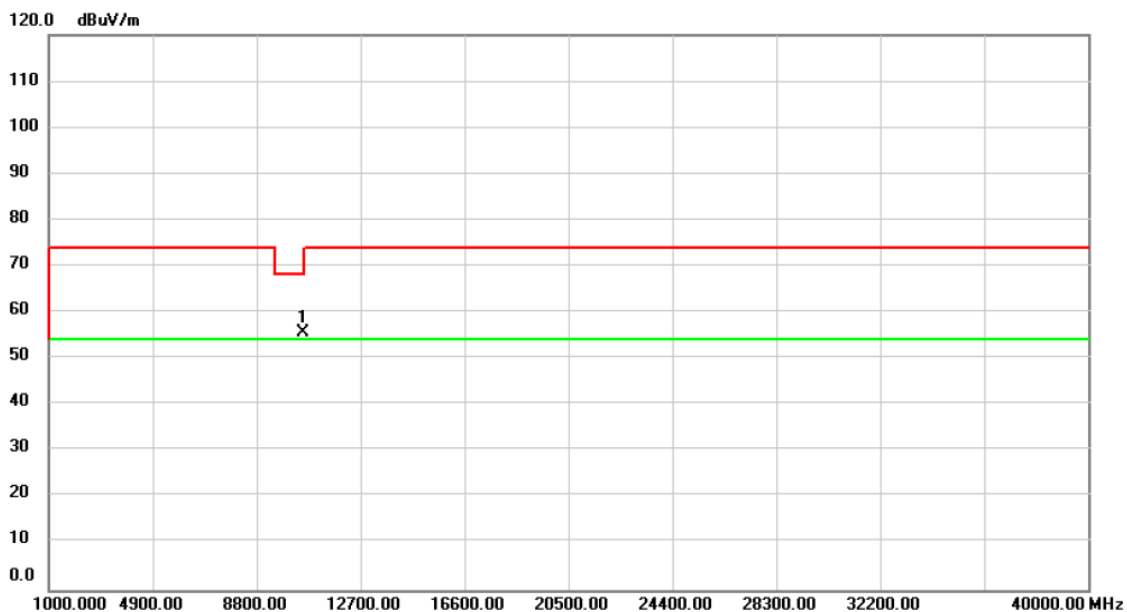
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	56.53	37.43	93.96	74.00	19.96	peak	No Limit
2	*	5260.000	46.88	37.43	84.31	54.00	30.31	AVG	No Limit

Test MODE	UNII-2A/ TX A MODE 5260MHz	Polarization	Vertical
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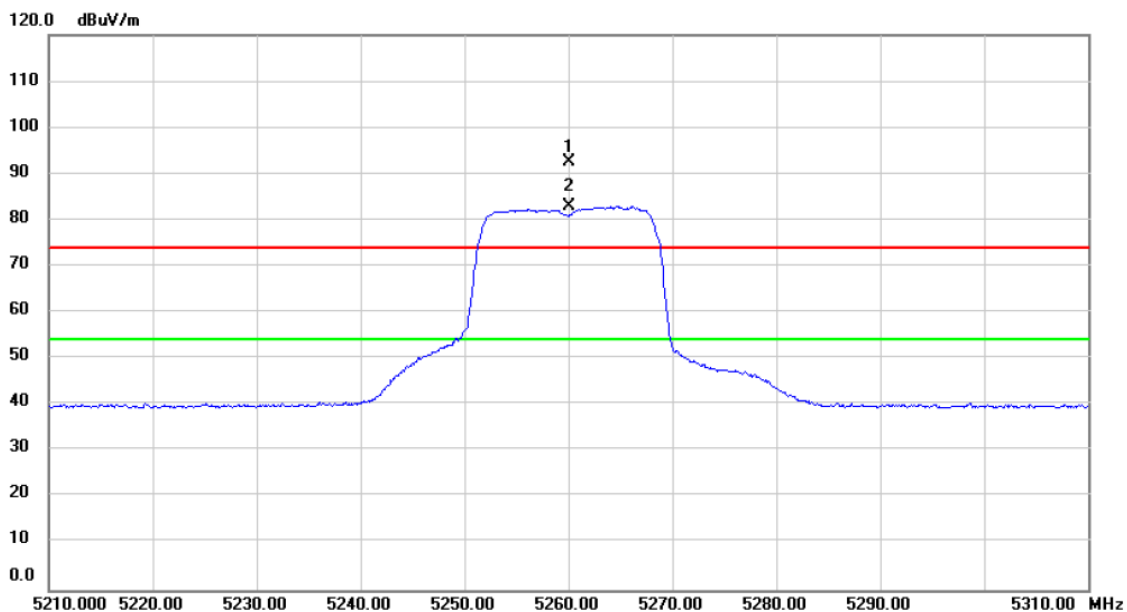
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	53.87	1.75	55.62	68.20	-12.58	peak	

Test MODE	UNII-2A/ TX A MODE 5260MHz	Polarization	Horizontal
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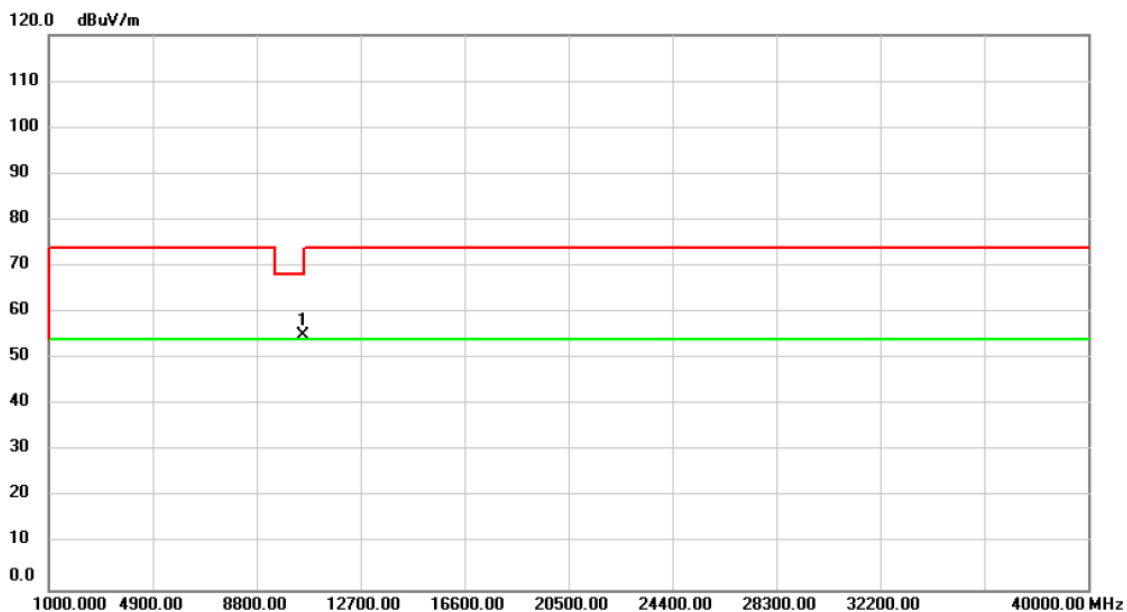
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	54.97	37.43	92.40	74.00	18.40	peak	No Limit
2	*	5260.000	45.40	37.43	82.83	54.00	28.83	AVG	No Limit

Test MODE	UNII-2A/ TX A MODE 5260MHz	Polarization	Horizontal
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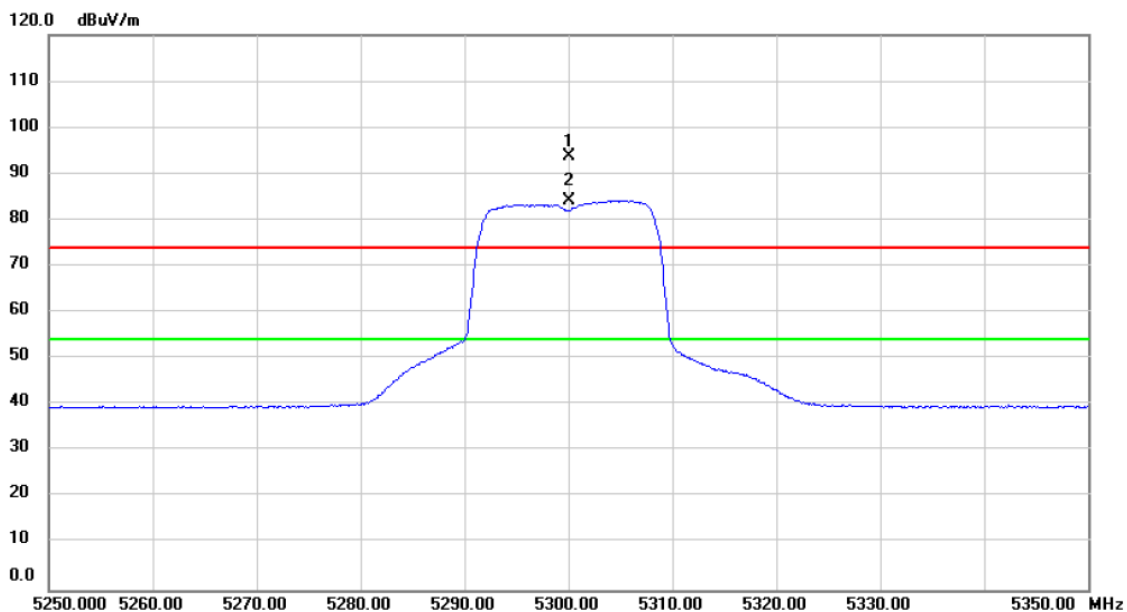
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	53.18	1.75	54.93	68.20	-13.27	peak	

Test MODE	UNII-2A/ TX A MODE 5300MHz	Polarization	Vertical
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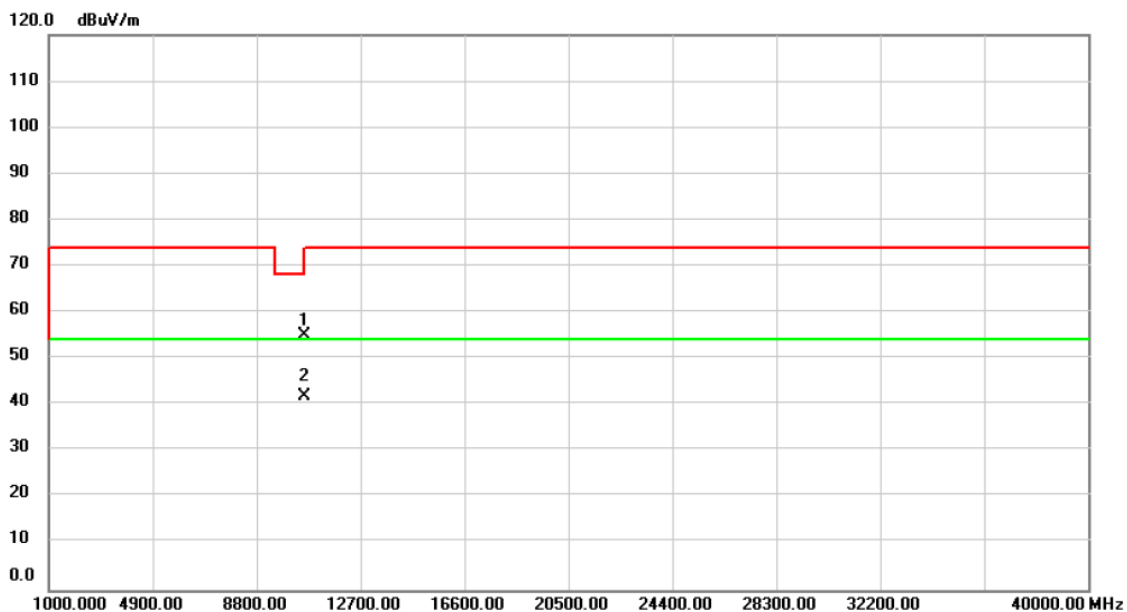
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	56.25	37.47	93.72	74.00	19.72	peak	No Limit
2	*	5300.000	46.74	37.47	84.21	54.00	30.21	AVG	No Limit

Test MODE	UNII-2A/ TX A MODE 5300MHz	Polarization	Vertical
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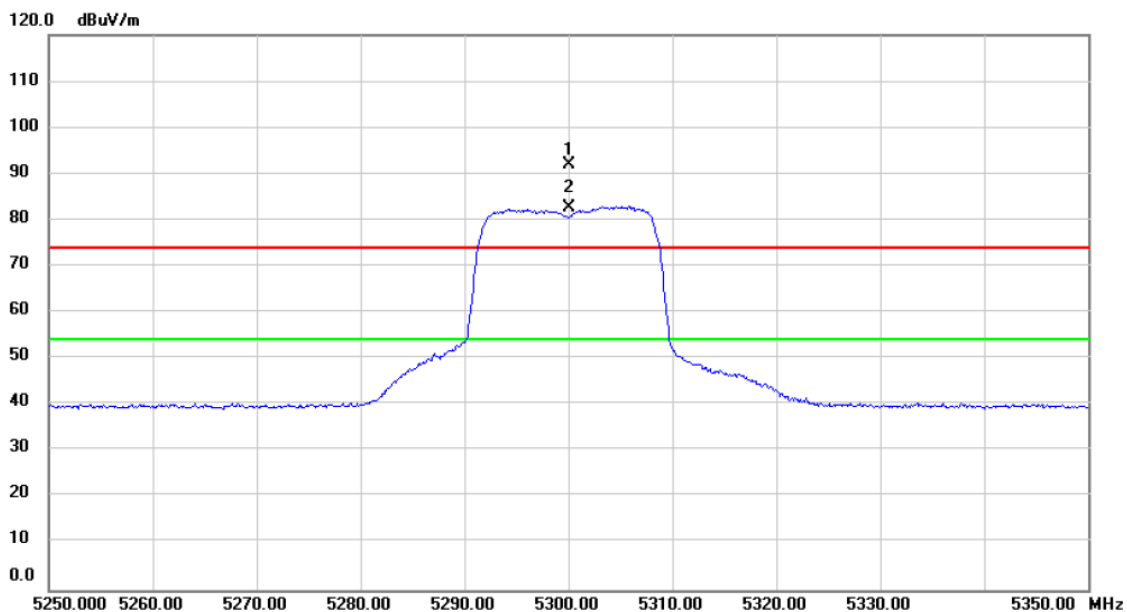
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.01	53.22	1.87	55.09	74.00	-18.91	peak	
2	*	10600.01	40.03	1.87	41.90	54.00	-12.10	AVG	

Test MODE	UNII-2A/ TX A MODE 5300MHz	Polarization	Horizontal
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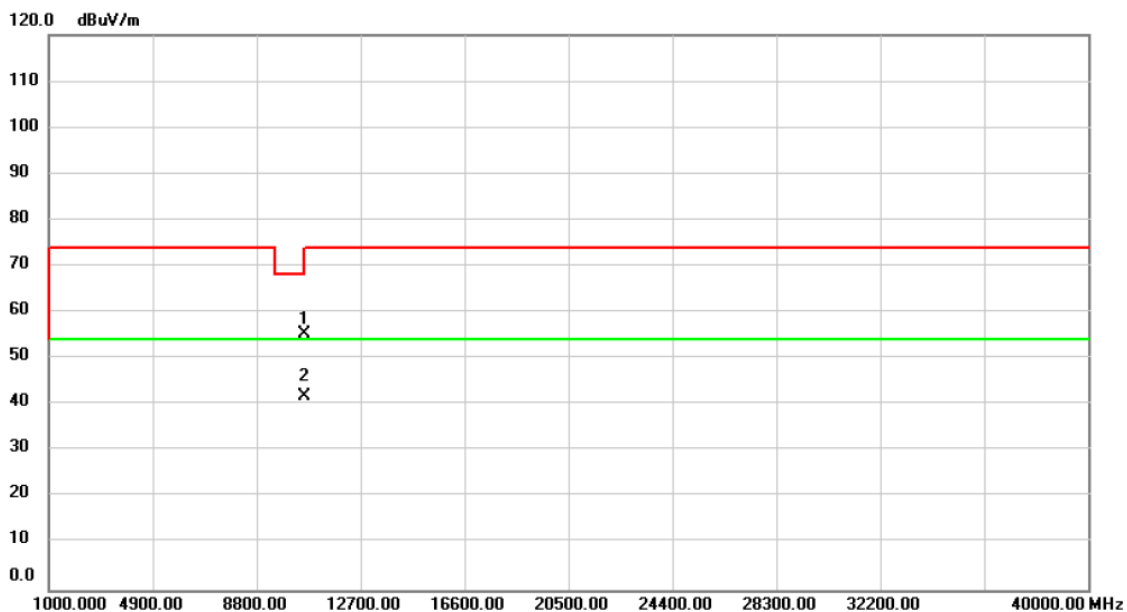
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	54.48	37.47	91.95	74.00	17.95	peak	No Limit
2	*	5300.000	45.18	37.47	82.65	54.00	28.65	AVG	No Limit

Test MODE	UNII-2A/ TX A MODE 5300MHz	Polarization	Horizontal
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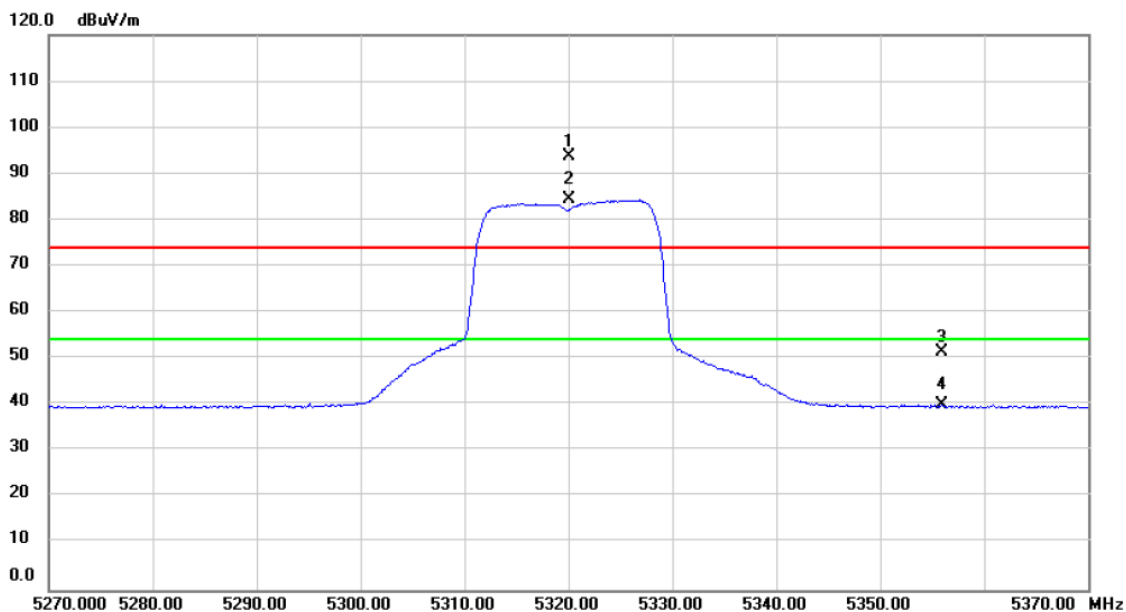
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.01	53.36	1.87	55.23	74.00	-18.77	peak	
2	*	10600.01	40.07	1.87	41.94	54.00	-12.06	AVG	

Test MODE	UNII-2A/ TX A MODE 5320MHz	Polarization	Vertical
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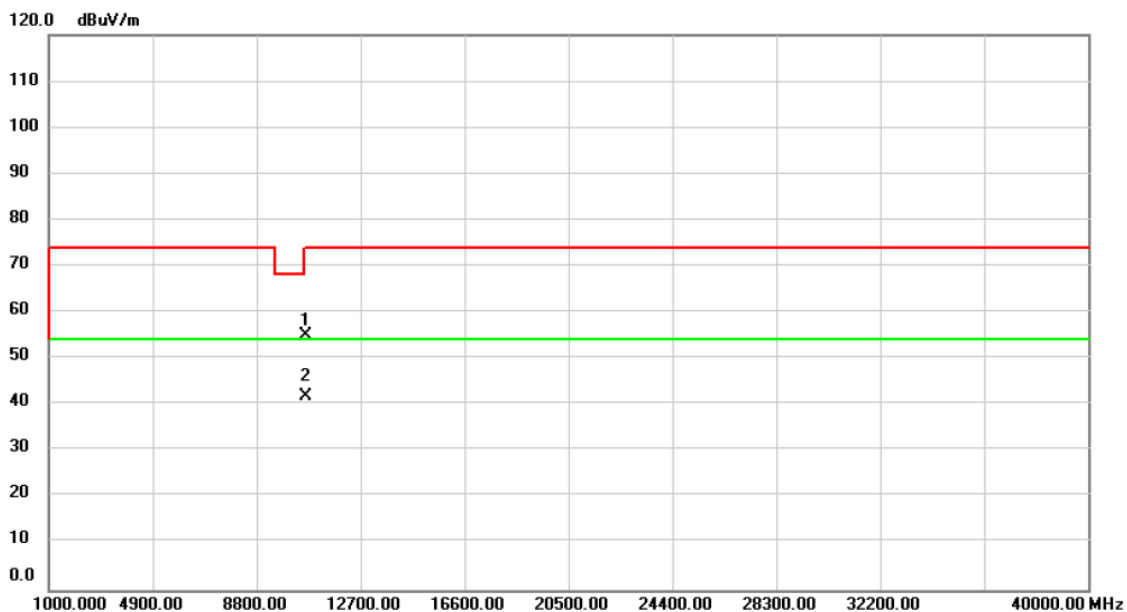
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5320.000	56.27	37.49	93.76	74.00	19.76	peak	No Limit
2	*	5320.000	46.89	37.49	84.38	54.00	30.38	AVG	No Limit
3		5355.940	14.03	37.53	51.56	74.00	-22.44	peak	
4		5355.940	2.45	37.53	39.98	54.00	-14.02	AVG	

Test MODE	UNII-2A/ TX A MODE 5320MHz	Polarization	Vertical
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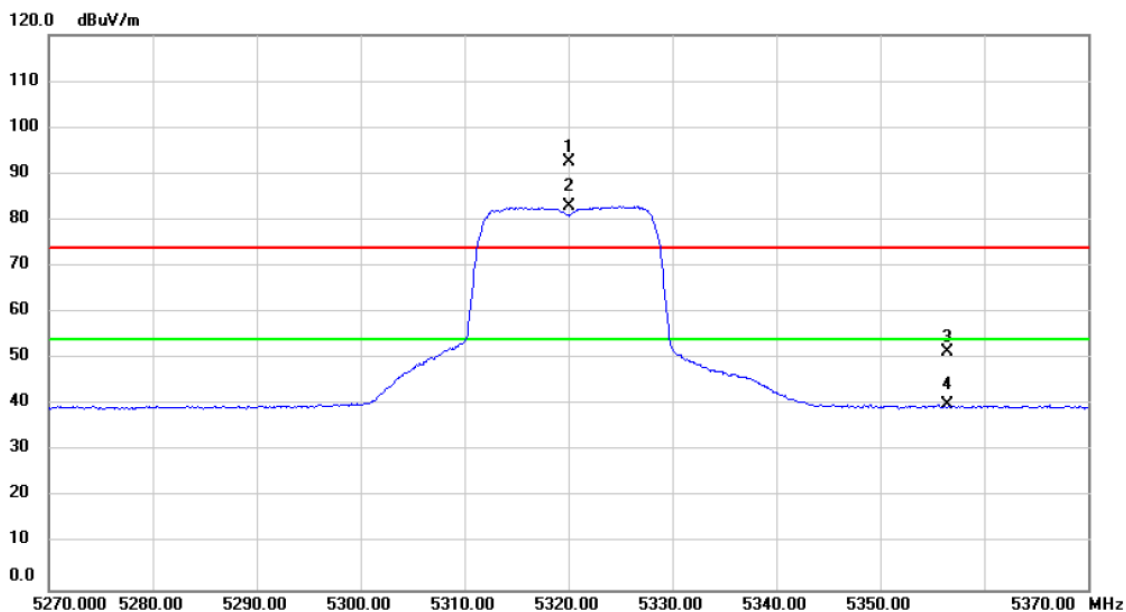
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	53.15	1.94	55.09	74.00	-18.91	peak	
2	*	10640.00	40.06	1.94	42.00	54.00	-12.00	AVG	

Test MODE	UNII-2A/ TX A MODE 5320MHz	Polarization	Horizontal
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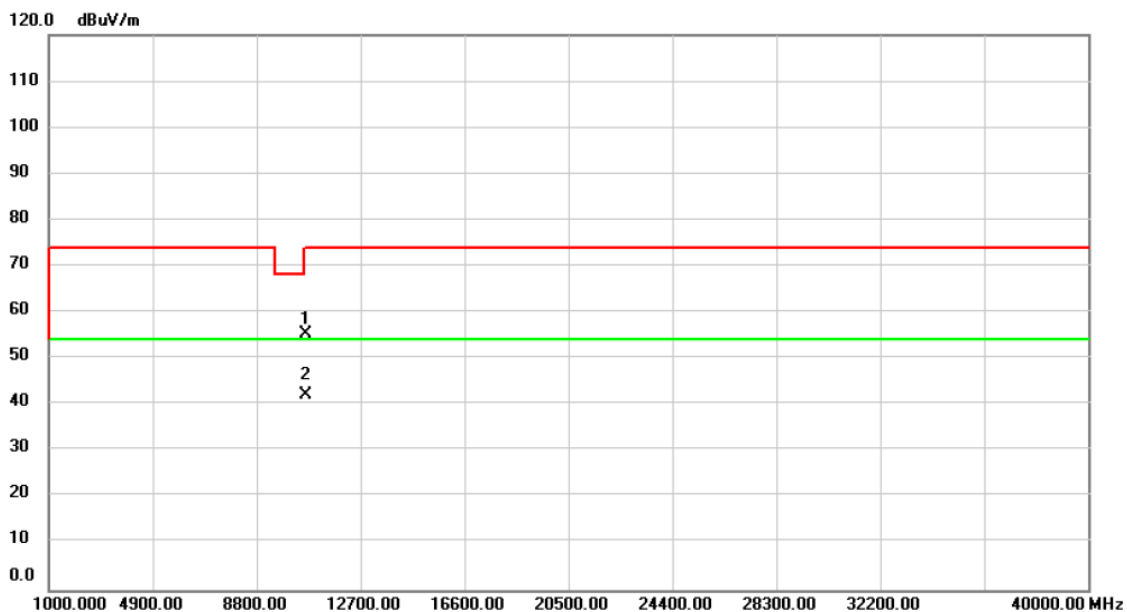
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5320.000	55.15	37.49	92.64	74.00	18.64	peak	No Limit
2	*	5320.000	45.43	37.49	82.92	54.00	28.92	AVG	No Limit
3		5356.520	14.07	37.53	51.60	74.00	-22.40	peak	
4		5356.520	2.48	37.53	40.01	54.00	-13.99	AVG	

Test MODE	UNII-2A/ TX A MODE 5320MHz	Polarization	Horizontal
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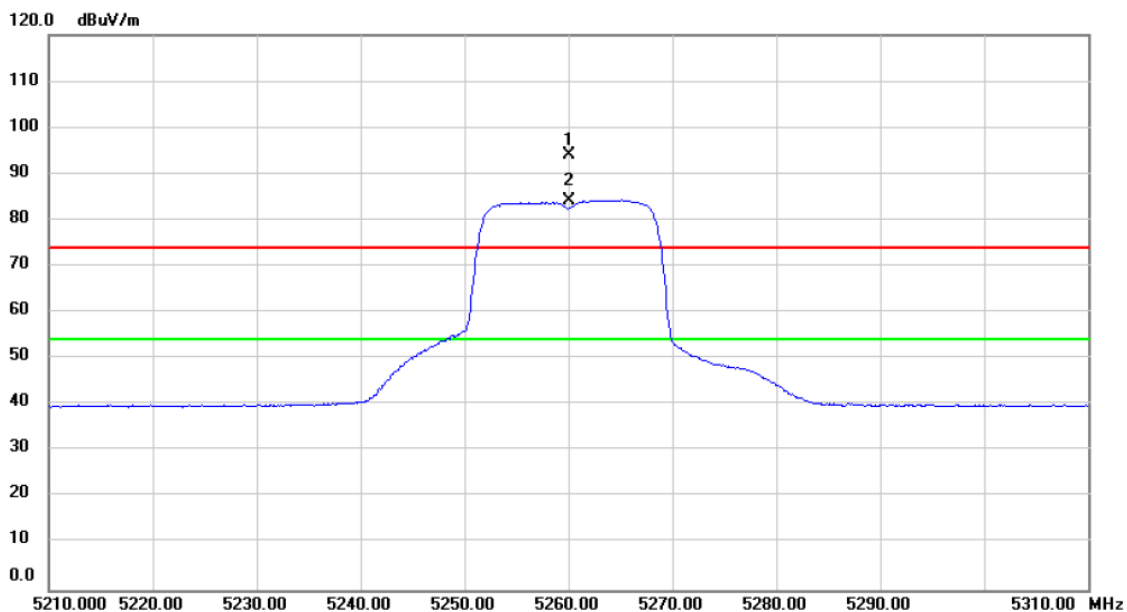
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10640.00	53.30	1.94	55.24	74.00	-18.76	peak	
2	*	10640.00	40.09	1.94	42.03	54.00	-11.97	AVG	

Test MODE	UNII-2A/ TX N (HT20) MODE 5260MHz	Polarization	Vertical
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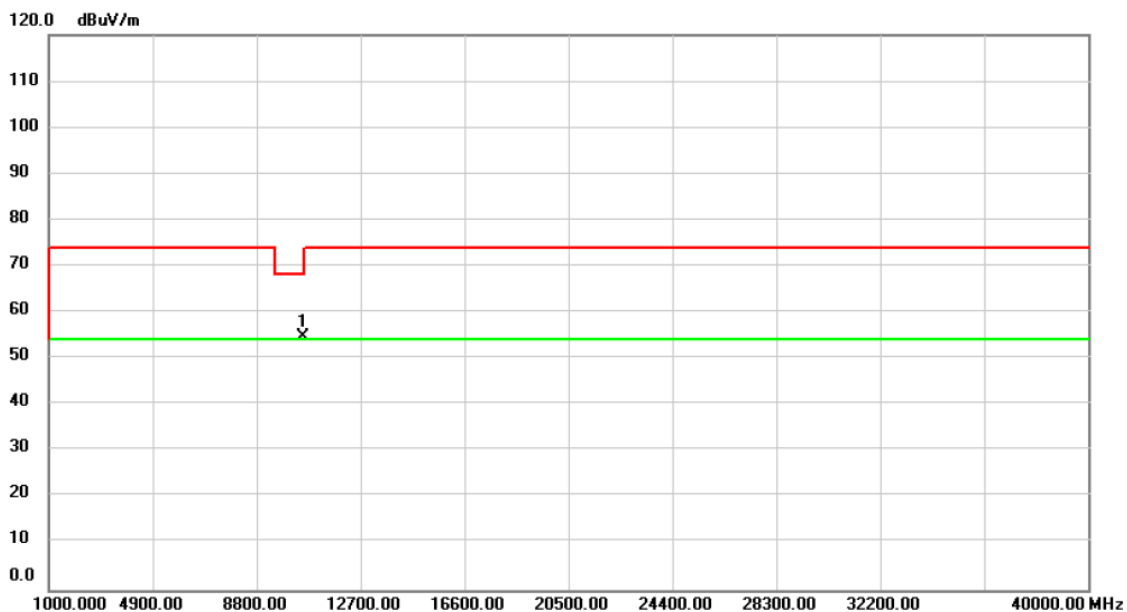
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	56.53	37.43	93.96	74.00	19.96	peak	No Limit
2	*	5260.000	46.76	37.43	84.19	54.00	30.19	AVG	No Limit

Test MODE	UNII-2A/ TX N (HT20) MODE 5260MHz	Polarization	Vertical
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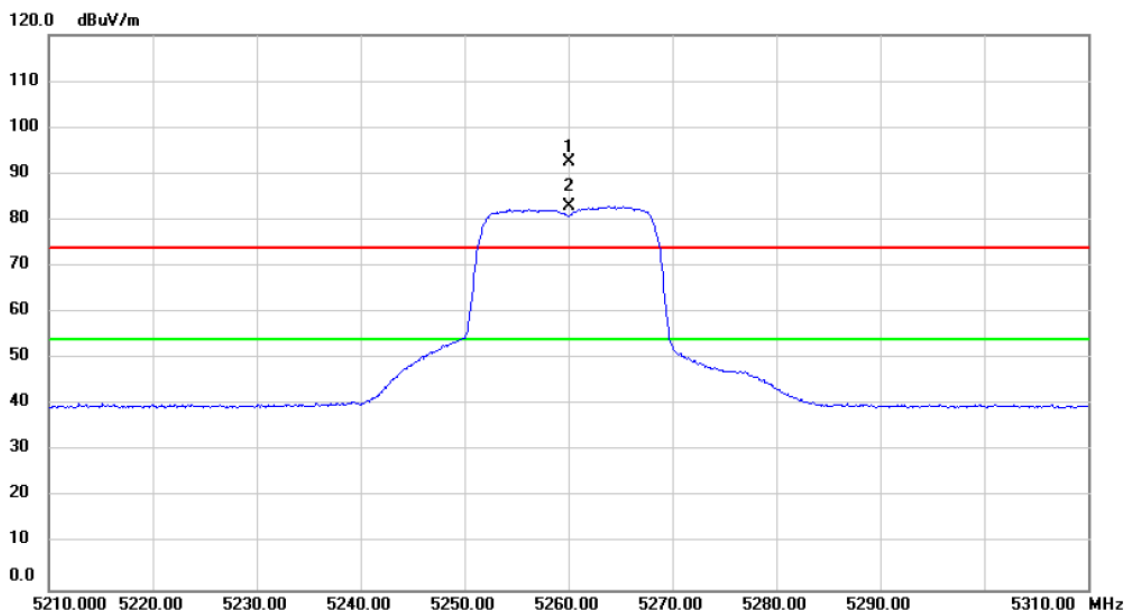
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	53.10	1.75	54.85	68.20	-13.35	peak	

Test MODE	UNII-2A/ TX N (HT20) MODE 5260MHz	Polarization	Horizontal
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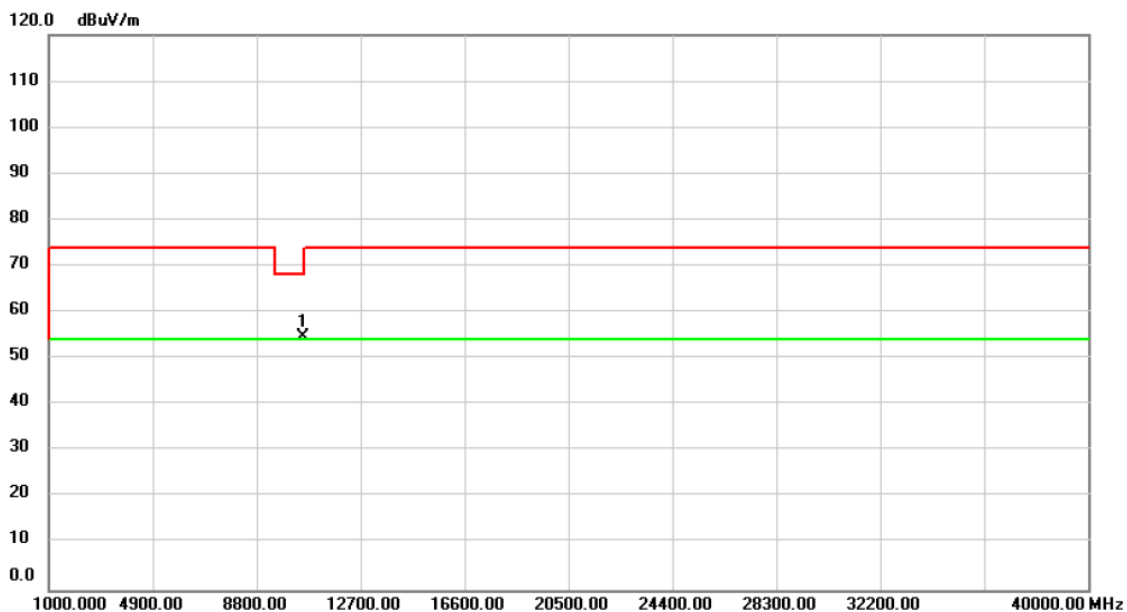
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	54.99	37.43	92.42	74.00	18.42	peak	No Limit
2	*	5260.000	45.38	37.43	82.81	54.00	28.81	AVG	No Limit

Test MODE	UNII-2A/ TX N (HT20) MODE 5260MHz	Polarization	Horizontal
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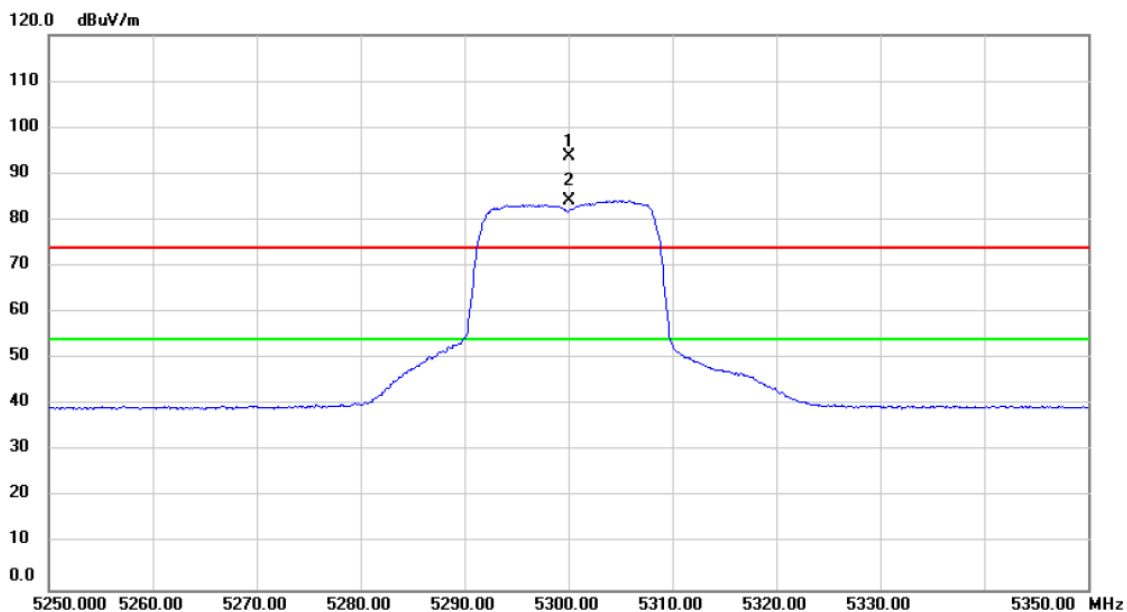
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10520.00	53.03	1.75	54.78	68.20	-13.42	peak	

Test MODE	UNII-2A/ TX N (HT20) MODE 5300MHz	Polarization	Vertical
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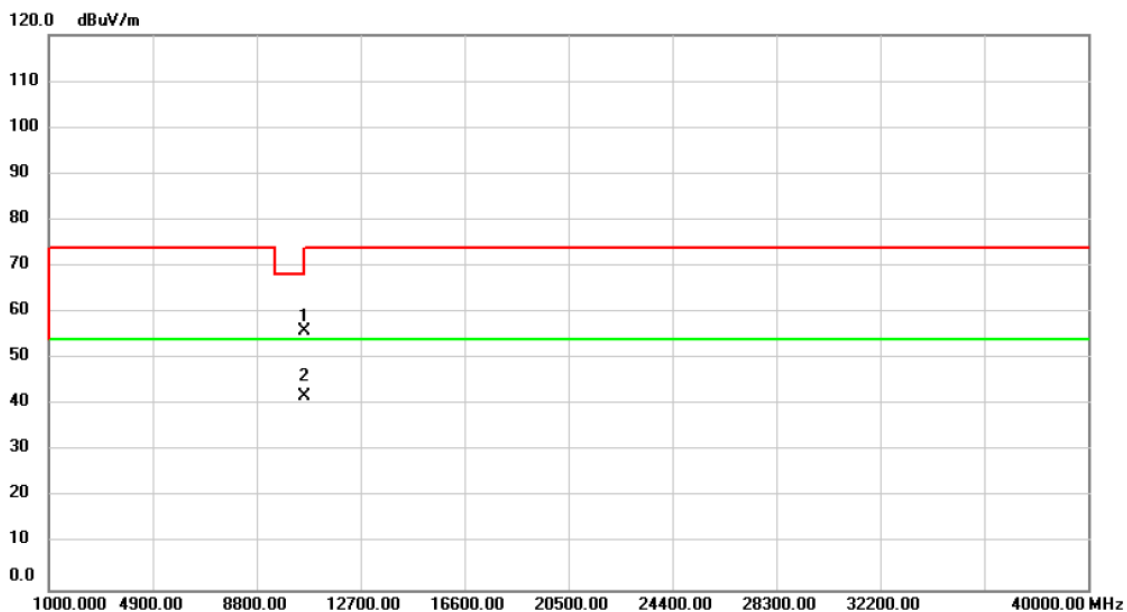
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	56.31	37.47	93.78	74.00	19.78	peak	No Limit
2	*	5300.000	46.82	37.47	84.29	54.00	30.29	AVG	No Limit

Test MODE	UNII-2A/ TX N (HT20) MODE 5300MHz	Polarization	Vertical
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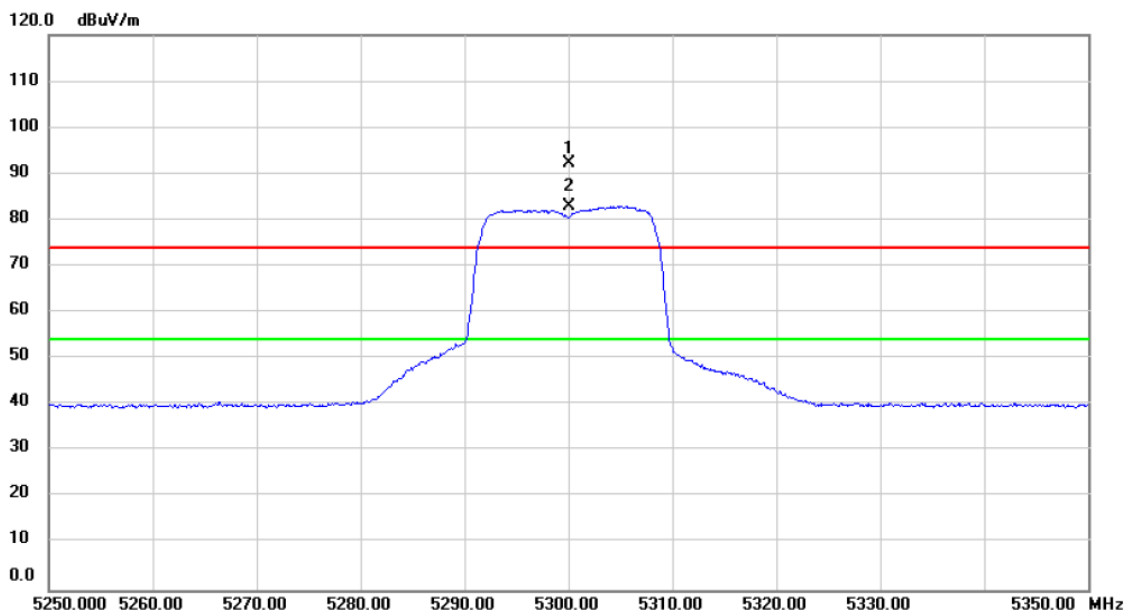
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10600.01	54.12	1.87	55.99	74.00	-18.01	peak	
2	*	10600.01	40.05	1.87	41.92	54.00	-12.08	AVG	

Test MODE	UNII-2A/ TX N (HT20) MODE 5300MHz	Polarization	Horizontal
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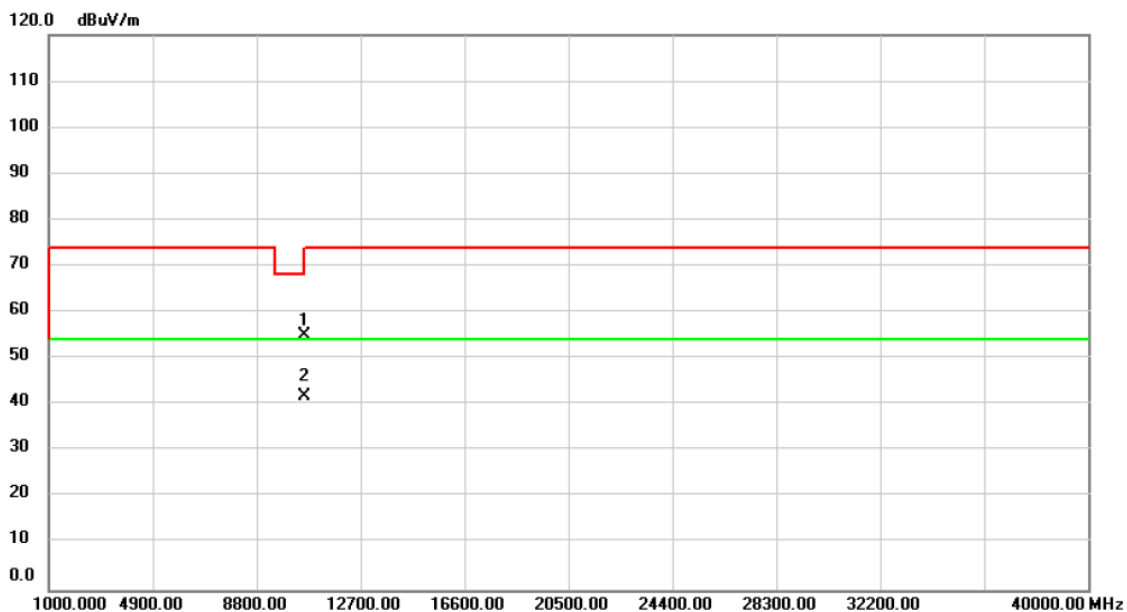
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	54.67	37.47	92.14	74.00	18.14	peak	No Limit
2	*	5300.000	45.53	37.47	83.00	54.00	29.00	AVG	No Limit

Test MODE	UNII-2A/ TX N (HT20) MODE 5300MHz	Polarization	Horizontal
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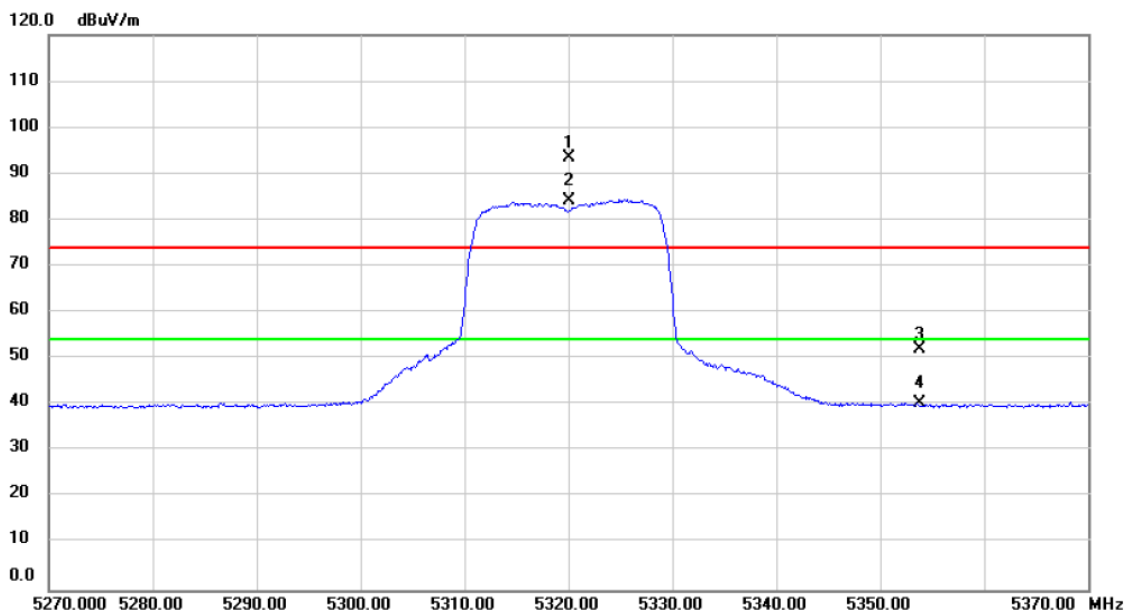
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.01	53.16	1.87	55.03	74.00	-18.97	peak	
2	*	10600.01	39.99	1.87	41.86	54.00	-12.14	AVG	

Test MODE	UNII-2A/ TX N (HT20) MODE 5320MHz	Polarization	Vertical
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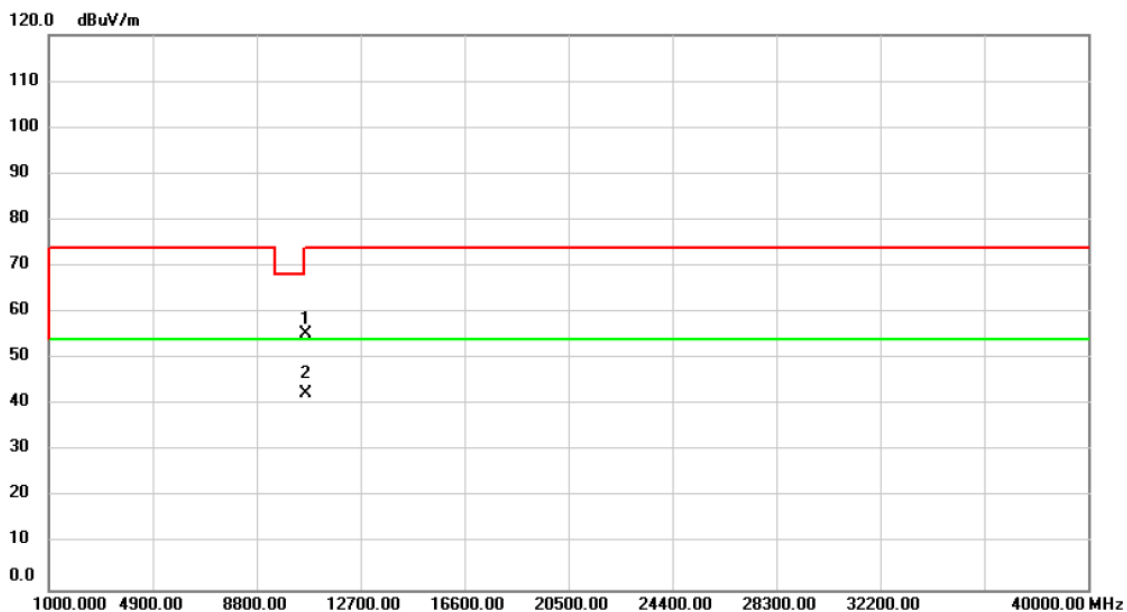
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5320.000	56.07	37.49	93.56	74.00	19.56	peak	No Limit
2	*	5320.000	46.72	37.49	84.21	54.00	30.21	AVG	No Limit
3		5353.820	14.46	37.53	51.99	74.00	-22.01	peak	
4		5353.820	2.82	37.53	40.35	54.00	-13.65	AVG	

Test MODE	UNII-2A/ TX N (HT20) MODE 5320MHz	Polarization	Vertical
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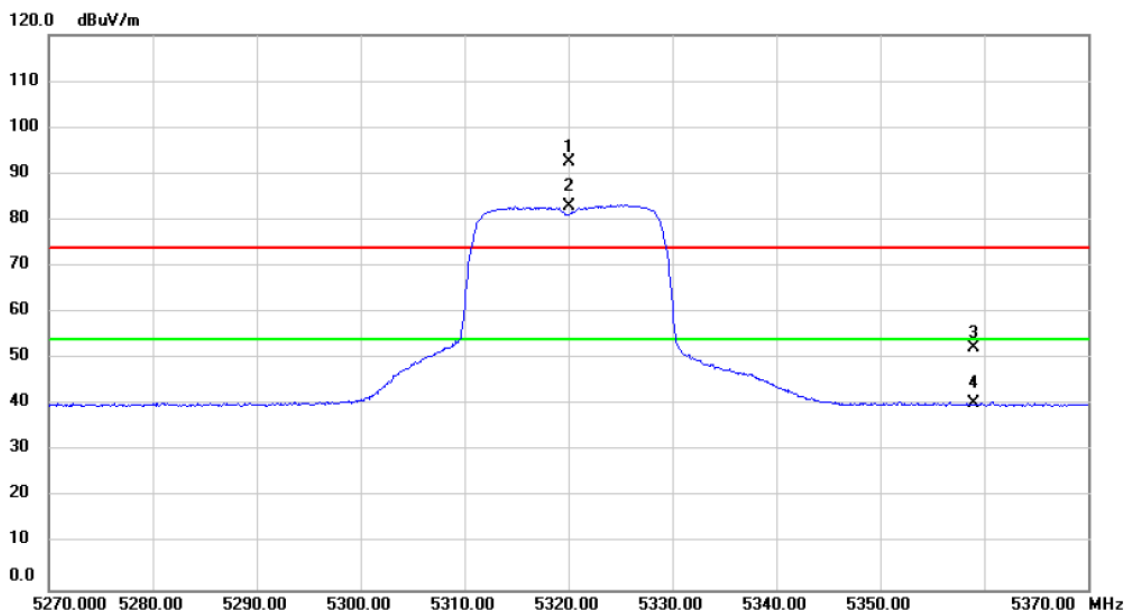
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10640.00	53.29	1.94	55.23	74.00	-18.77	peak	
2	*	10640.00	40.41	1.94	42.35	54.00	-11.65	AVG	

Test MODE	UNII-2A/ TX N (HT20) MODE 5320MHz	Polarization	Horizontal
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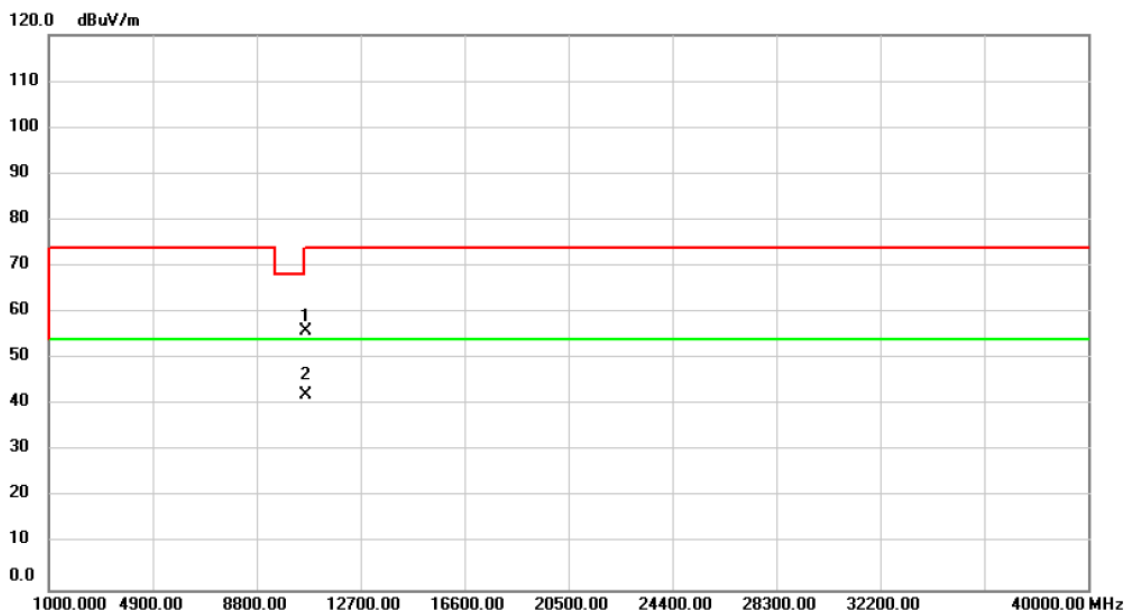
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5320.000	54.99	37.49	92.48	74.00	18.48	peak	No Limit
2	*	5320.000	45.47	37.49	82.96	54.00	28.96	AVG	No Limit
3		5359.040	14.89	37.54	52.43	74.00	-21.57	peak	
4		5359.040	2.81	37.54	40.35	54.00	-13.65	AVG	

Test MODE	UNII-2A/ TX N (HT20) MODE 5320MHz	Polarization	Horizontal
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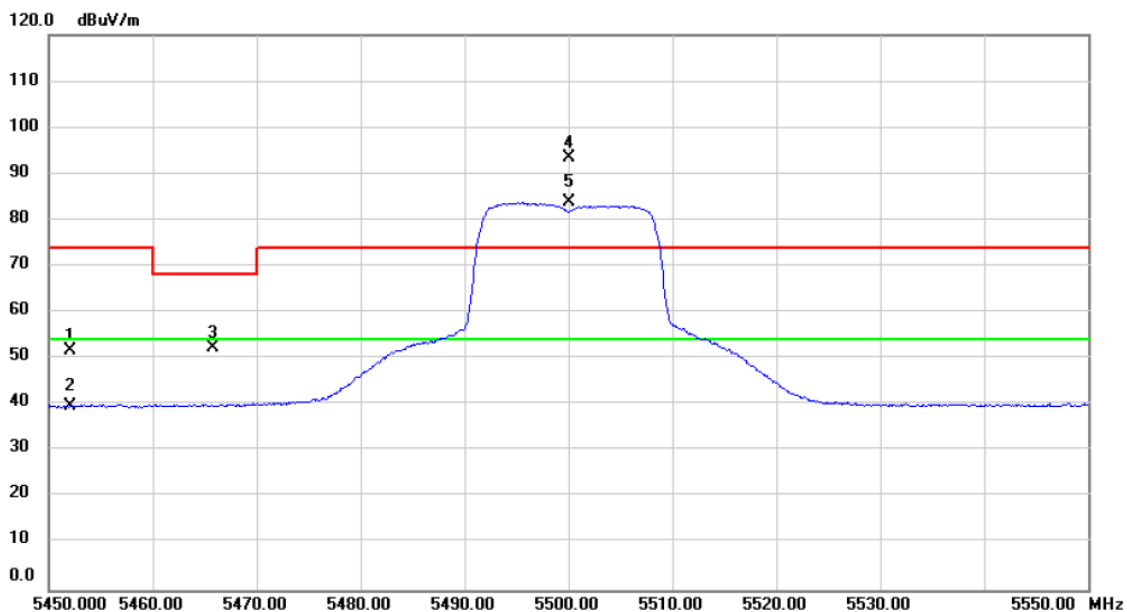
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10640.00	53.99	1.94	55.93	74.00	-18.07	peak	
2	*	10640.00	40.18	1.94	42.12	54.00	-11.88	AVG	

Test MODE	UNII-2C/ TX A MODE 5500MHz	Polarization	Vertical
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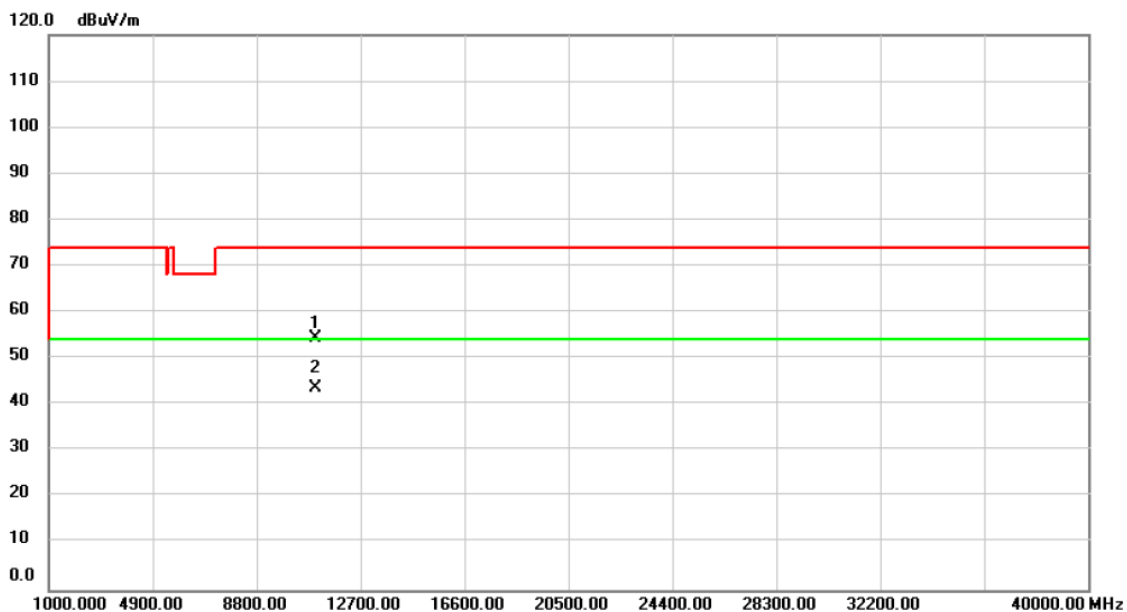
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5452.110	14.25	37.64	51.89	74.00	-22.11	peak	
2		5452.110	2.24	37.64	39.88	54.00	-14.12	AVG	
3		5465.770	14.62	37.65	52.27	68.20	-15.93	peak	
4	X	5500.000	55.64	37.69	93.33	74.00	19.33	peak	No Limit
5	*	5500.000	46.10	37.69	83.79	54.00	29.79	AVG	No Limit

Test MODE	UNII-2C/ TX A MODE 5500MHz	Polarization	Vertical
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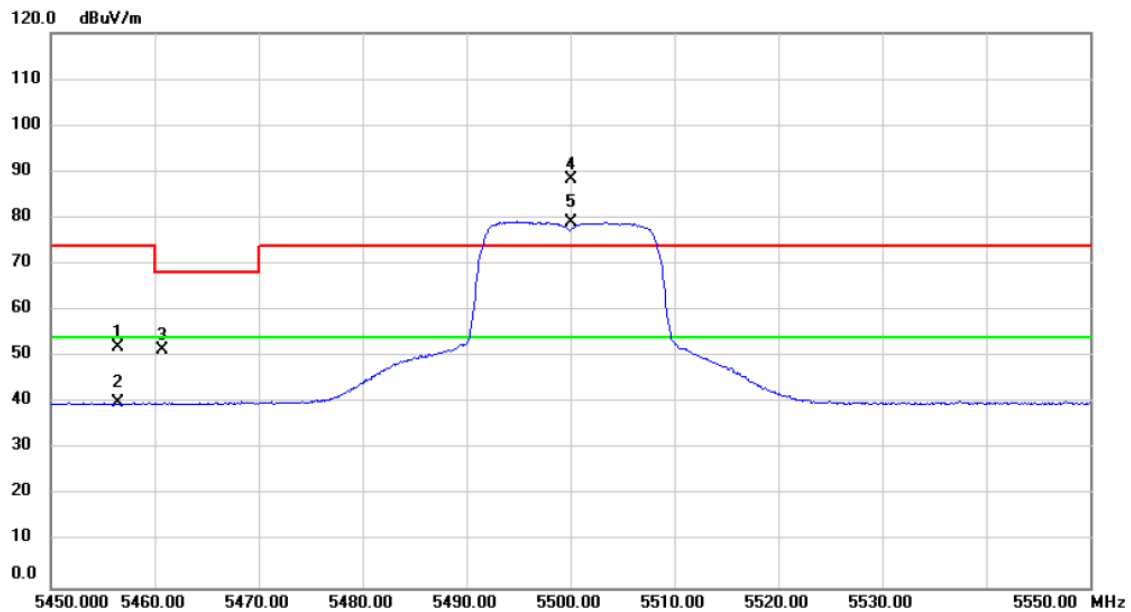
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	51.93	2.49	54.42	74.00	-19.58	peak	
2	*	11000.00	41.13	2.49	43.62	54.00	-10.38	AVG	

Test MODE	UNII-2C/ TX A MODE 5500MHz	Polarization	Horizontal
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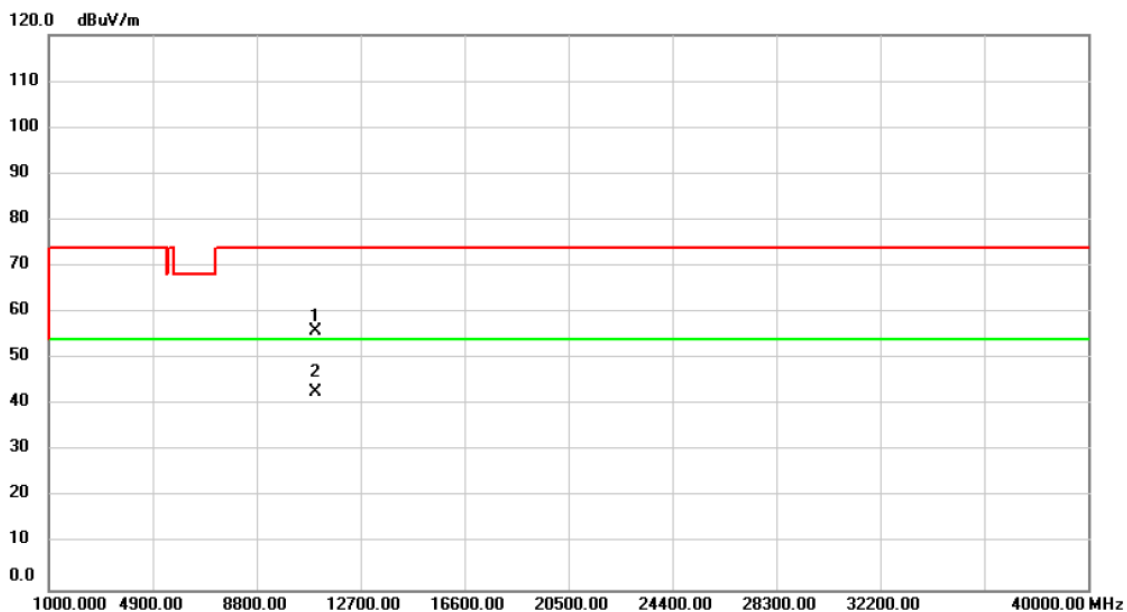
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5456.480	14.39	37.64	52.03	74.00	-21.97	peak	
2		5456.480	2.36	37.64	40.00	54.00	-14.00	AVG	
3		5460.710	13.83	37.65	51.48	68.20	-16.72	peak	
4	X	5500.000	50.53	37.69	88.22	74.00	14.22	peak	No Limit
5	*	5500.000	41.23	37.69	78.92	54.00	24.92	AVG	No Limit

Test MODE	UNII-2C/ TX A MODE 5500MHz	Polarization	Horizontal
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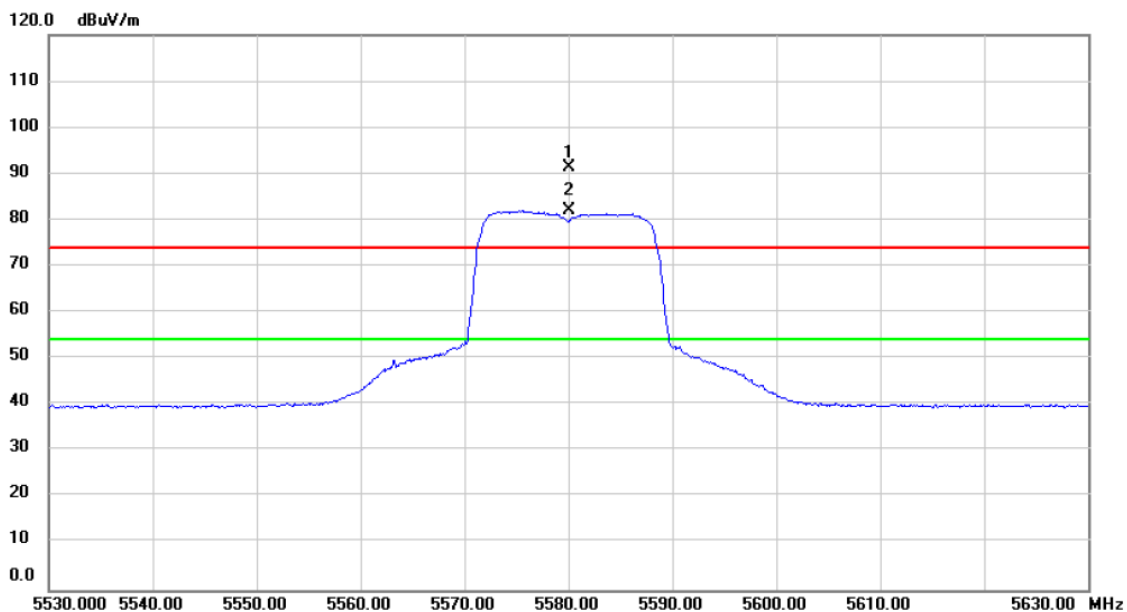
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	53.51	2.49	56.00	74.00	-18.00	peak	
2	*	11000.00	40.33	2.49	42.82	54.00	-11.18	AVG	

Test MODE	UNII-2C/ TX A MODE 5580MHz	Polarization	Vertical
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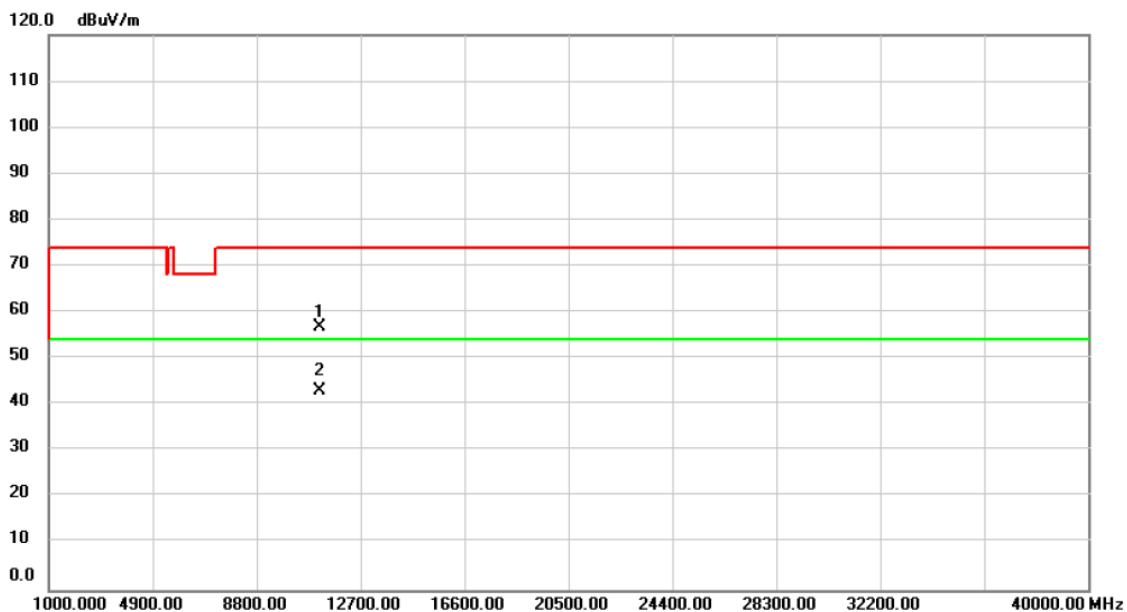
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	53.62	37.86	91.48	74.00	17.48	peak	No Limit
2	*	5580.000	44.20	37.86	82.06	54.00	28.06	AVG	No Limit

Test MODE	UNII-2C/ TX A MODE 5580MHz	Polarization	Vertical
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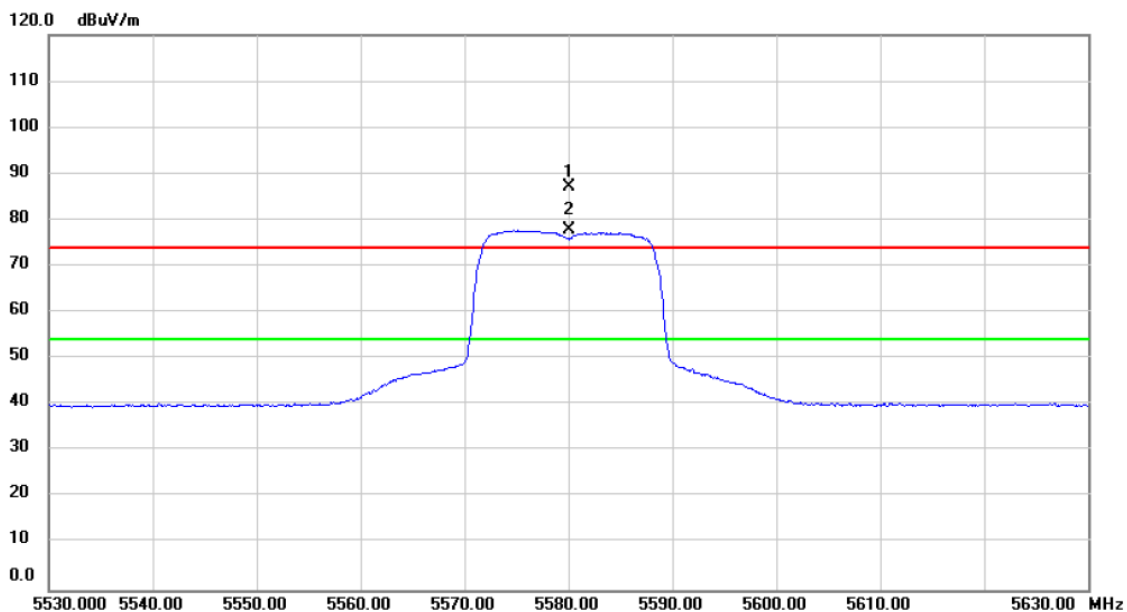
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11160.00	54.15	2.63	56.78	74.00	-17.22	peak	
2	*	11160.00	40.32	2.63	42.95	54.00	-11.05	AVG	

Test MODE	UNII-2C/ TX A MODE 5580MHz	Polarization	Horizontal
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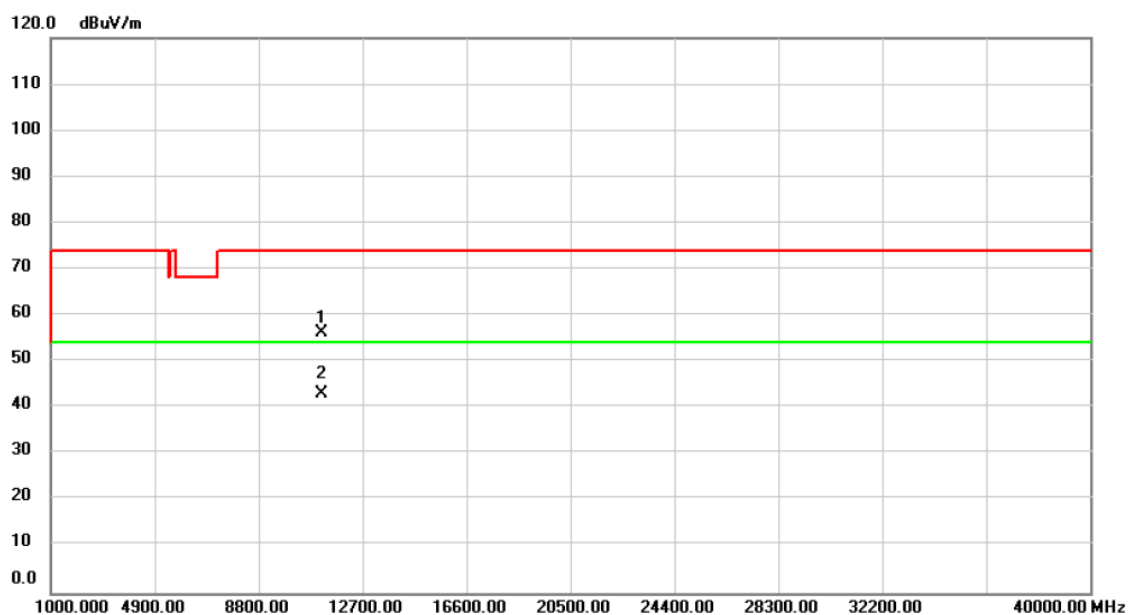
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	49.22	37.86	87.08	74.00	13.08	peak	No Limit
2	*	5580.000	39.90	37.86	77.76	54.00	23.76	AVG	No Limit

Test MODE	UNII-2C/ TX A MODE 5580MHz	Polarization	Horizontal
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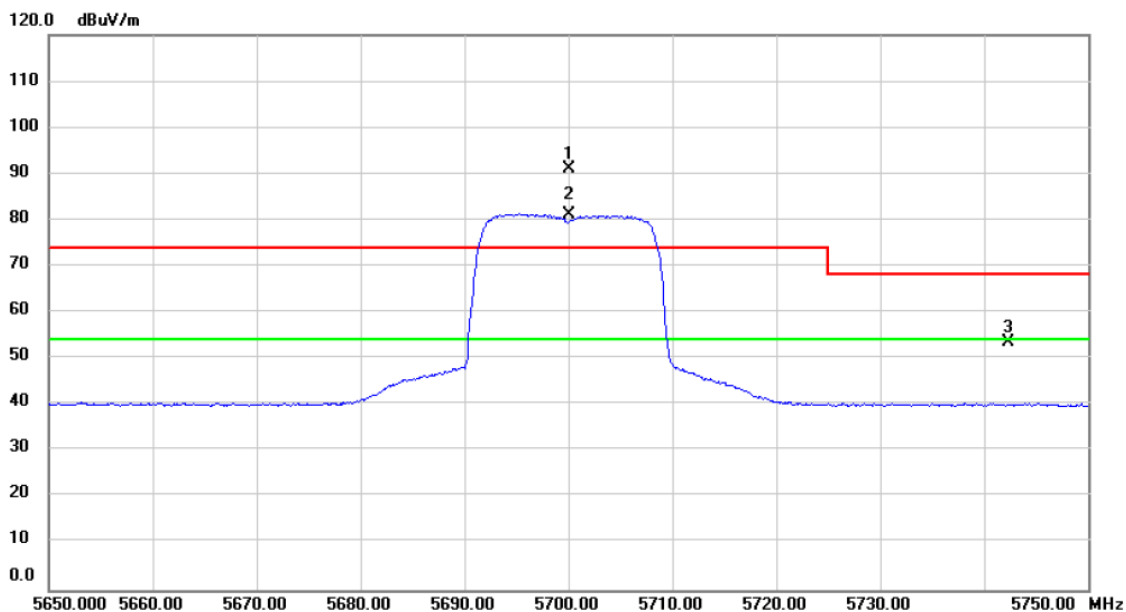
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	53.57	2.63	56.20	74.00	-17.80	peak	
2	*	11160.00	40.48	2.63	43.11	54.00	-10.89	AVG	

Test MODE	UNII-2C/ TX A MODE 5700MHz	Polarization	Vertical
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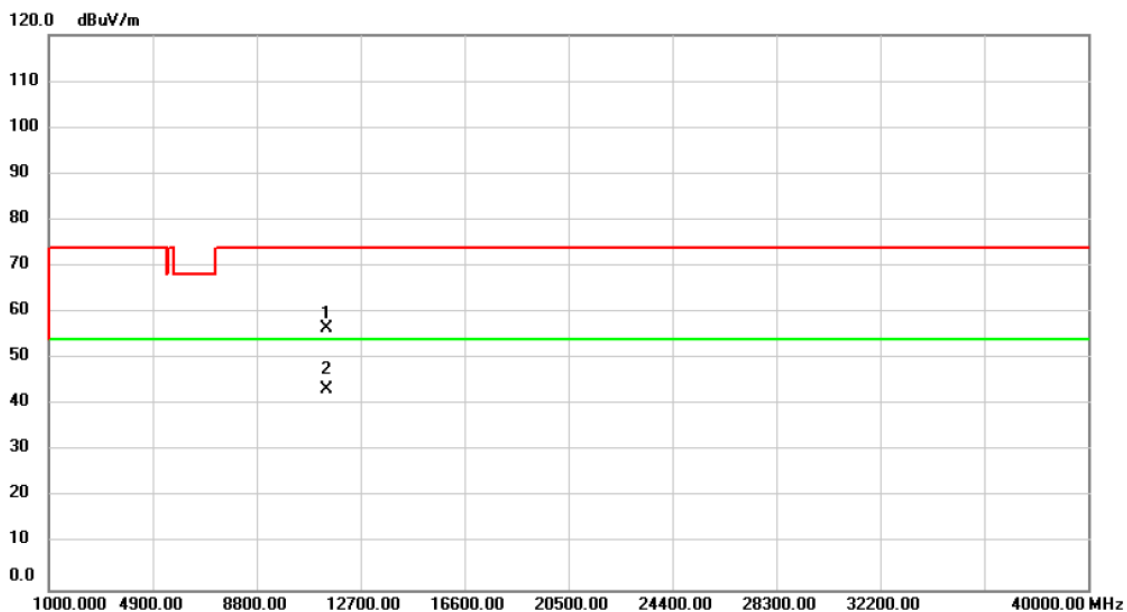
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5700.000	53.00	38.10	91.10	74.00	17.10	peak	No Limit
2	*	5700.000	43.15	38.10	81.25	54.00	27.25	AVG	No Limit
3		5742.275	15.30	38.19	53.49	68.20	-14.71	peak	

Test MODE	UNII-2C/ TX A MODE 5700MHz	Polarization	Vertical
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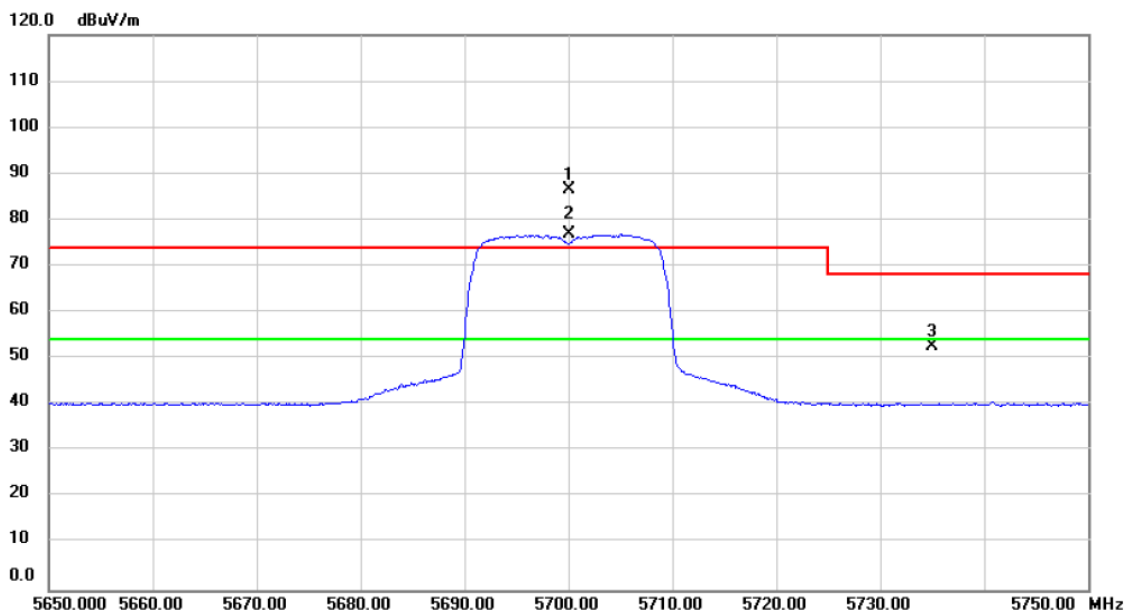
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11400.00	53.86	2.82	56.68	74.00	-17.32	peak	
2	*	11400.00	40.60	2.82	43.42	54.00	-10.58	AVG	

Test MODE	UNII-2C/ TX A MODE 5700MHz	Polarization	Horizontal
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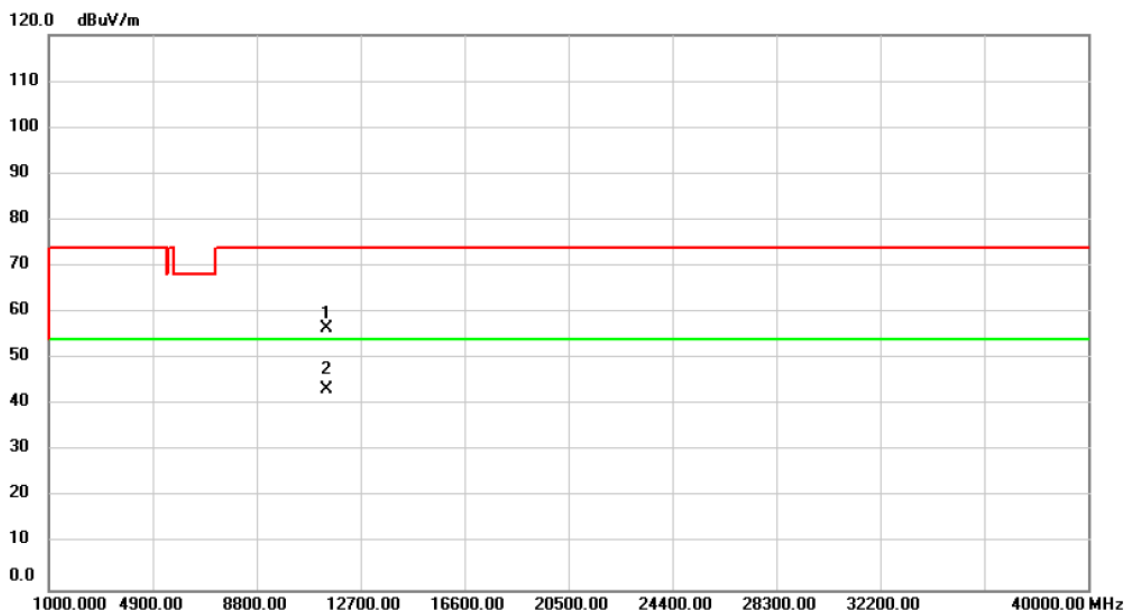
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5700.000	48.45	38.10	86.55	74.00	12.55	peak	No Limit
2	*	5700.000	38.72	38.10	76.82	54.00	22.82	AVG	No Limit
3		5734.975	14.52	38.18	52.70	68.20	-15.50	peak	

Test MODE	UNII-2C/ TX A MODE 5700MHz	Polarization	Horizontal
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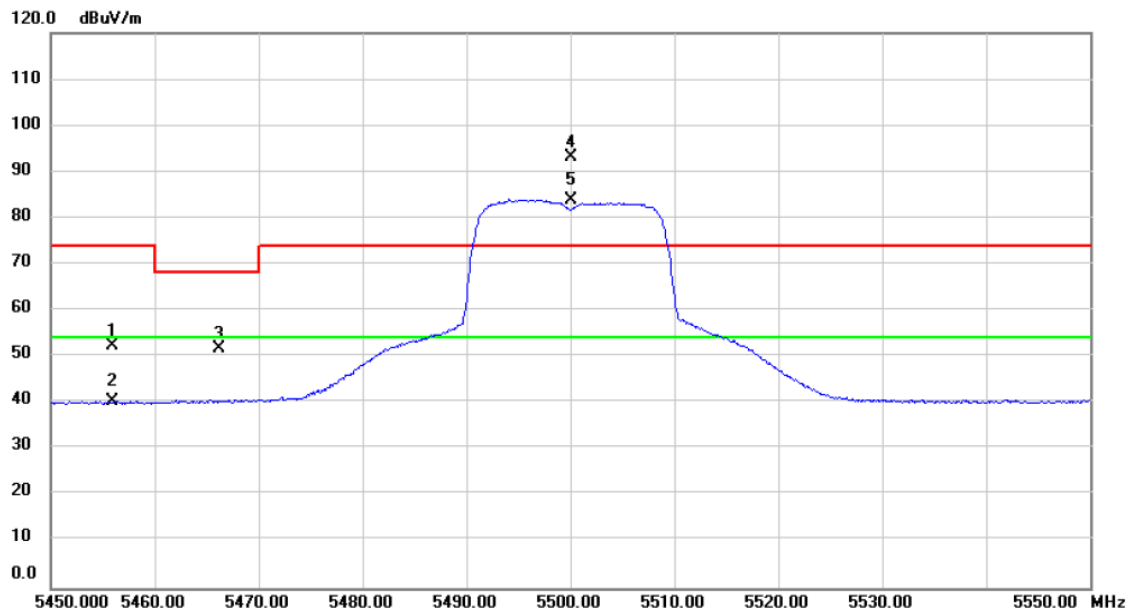
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11400.00	53.84	2.82	56.66	74.00	-17.34	peak	
2	*	11400.00	40.52	2.82	43.34	54.00	-10.66	AVG	

Test MODE UNII-2C/ TX N (HT20) MODE 5500MHz Polarization Vertical

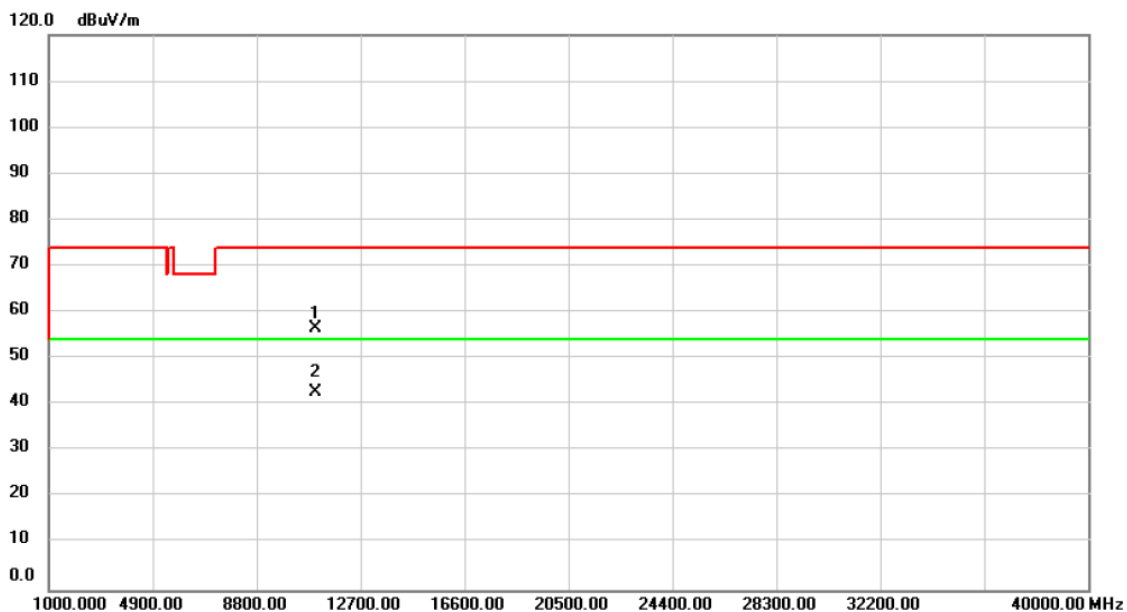
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5455.890	14.65	37.64	52.29	74.00	-21.71	peak	
2		5455.890	2.62	37.64	40.26	54.00	-13.74	AVG	
3		5466.230	14.06	37.65	51.71	68.20	-16.49	peak	
4	X	5500.000	55.53	37.69	93.22	74.00	19.22	peak	No Limit
5	*	5500.000	46.18	37.69	83.87	54.00	29.87	AVG	No Limit

Test MODE	UNII-2C/ TX N (HT20) MODE 5500MHz	Polarization	Vertical
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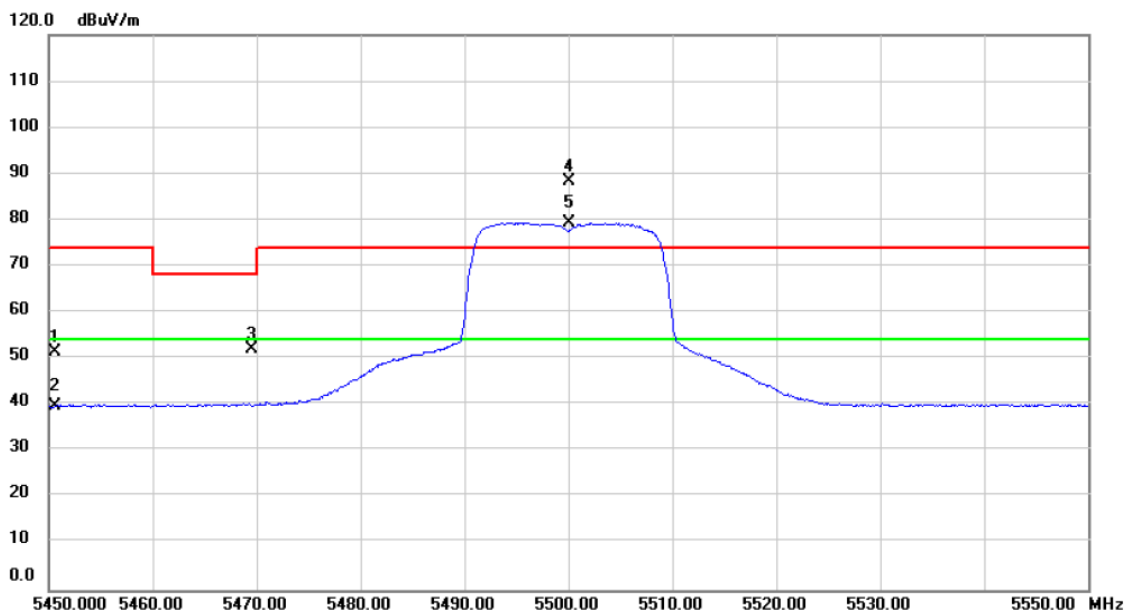
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	54.00	2.49	56.49	74.00	-17.51	peak	
2	*	11000.00	40.26	2.49	42.75	54.00	-11.25	AVG	

Test MODE	UNII-2C/ TX N (HT20) MODE 5500MHz	Polarization	Horizontal
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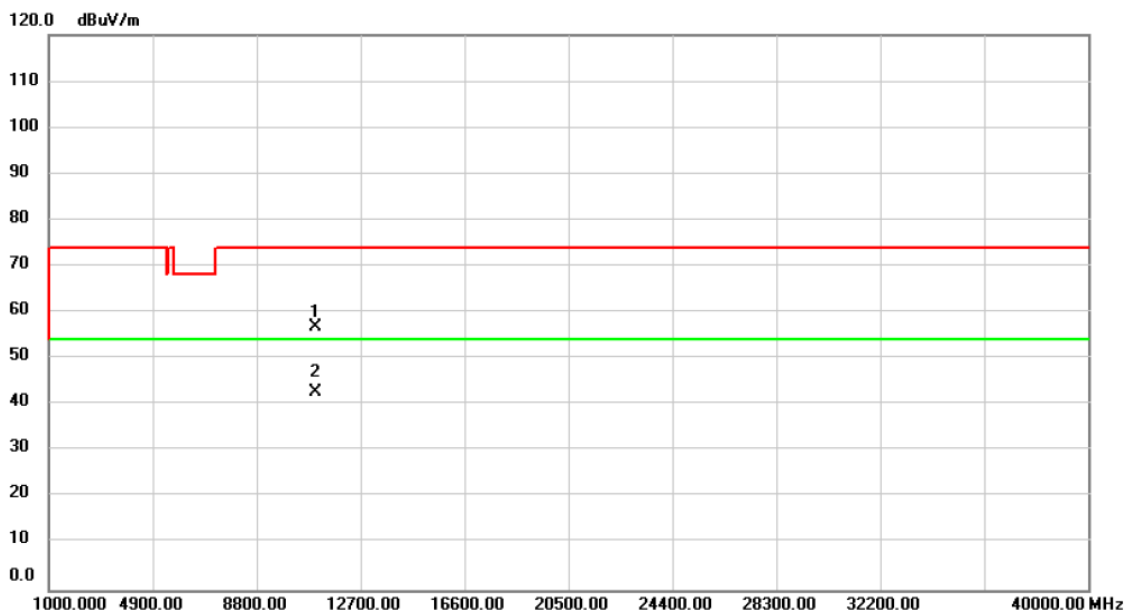
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5450.580	13.81	37.64	51.45	74.00	-22.55	peak	
2		5450.580	2.24	37.64	39.88	54.00	-14.12	AVG	
3		5469.530	14.52	37.65	52.17	68.20	-16.03	peak	
4	X	5500.000	50.63	37.69	88.32	74.00	14.32	peak	No Limit
5	*	5500.000	41.75	37.69	79.44	54.00	25.44	AVG	No Limit

Test MODE	UNII-2C/ TX N (HT20) MODE 5500MHz	Polarization	Horizontal
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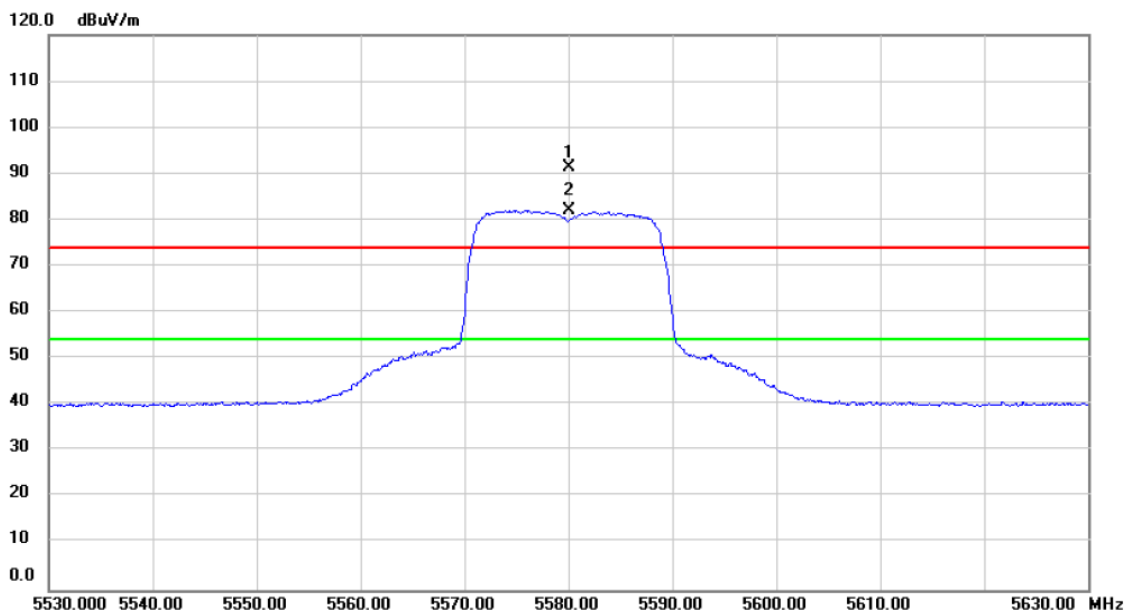
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	54.25	2.49	56.74	74.00	-17.26	peak	
2	*	11000.00	40.38	2.49	42.87	54.00	-11.13	AVG	

Test MODE	UNII-2C/ TX N (HT20) MODE 5580MHz	Polarization	Vertical
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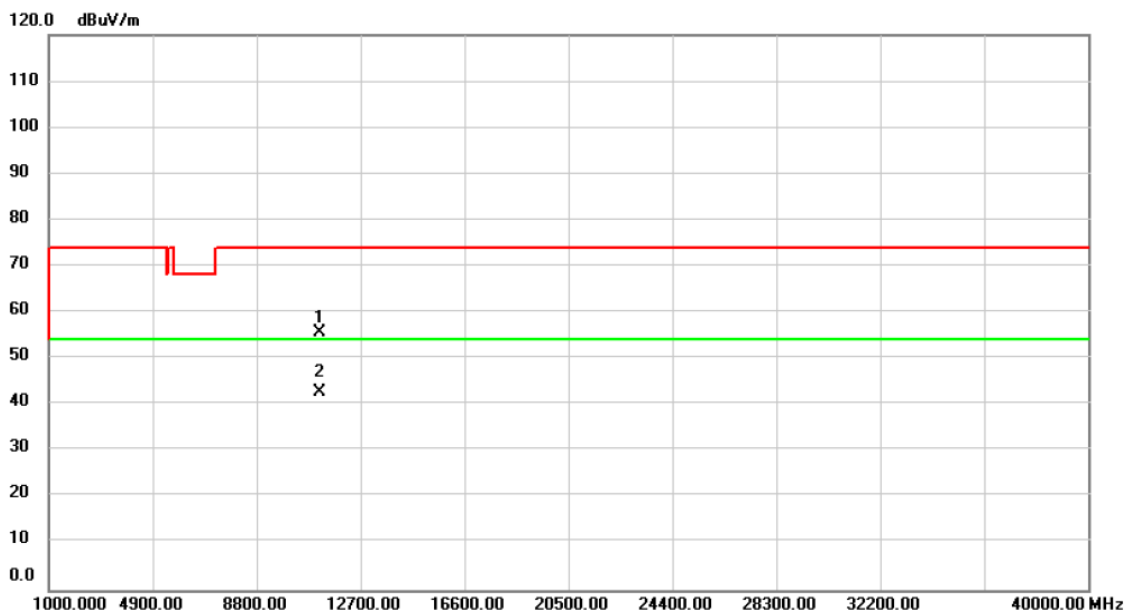
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	53.43	37.86	91.29	74.00	17.29	peak	No Limit
2	*	5580.000	44.28	37.86	82.14	54.00	28.14	AVG	No Limit

Test MODE	UNII-2C/ TX N (HT20) MODE 5580MHz	Polarization	Vertical
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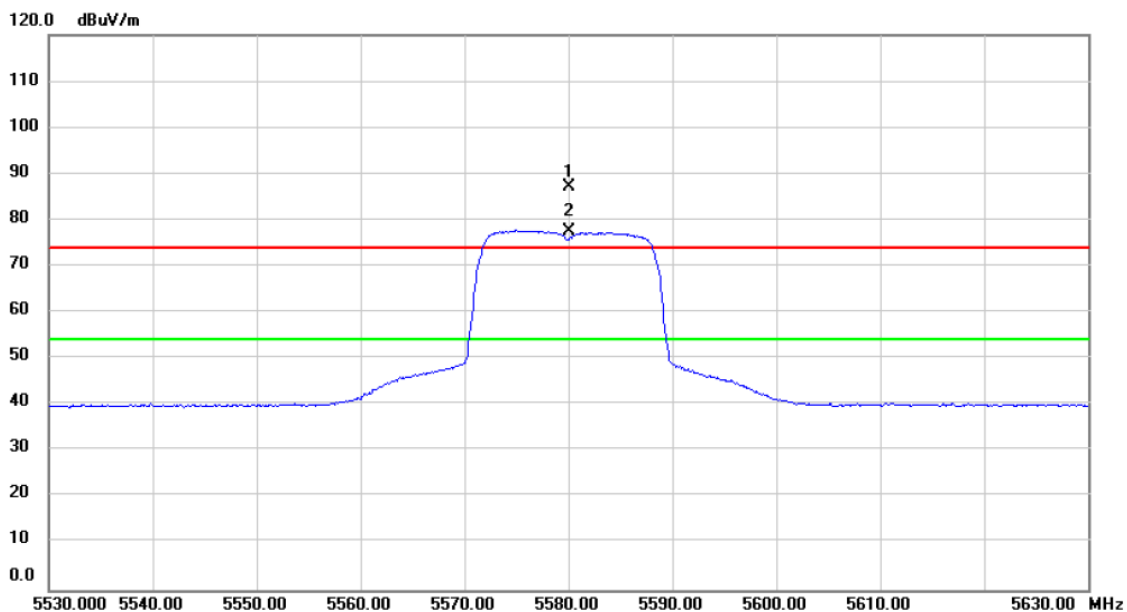
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11160.00	53.17	2.63	55.80	74.00	-18.20	peak	
2	*	11160.00	40.27	2.63	42.90	54.00	-11.10	AVG	

Test MODE	UNII-2C/ TX N (HT20) MODE 5580MHz	Polarization	Horizontal
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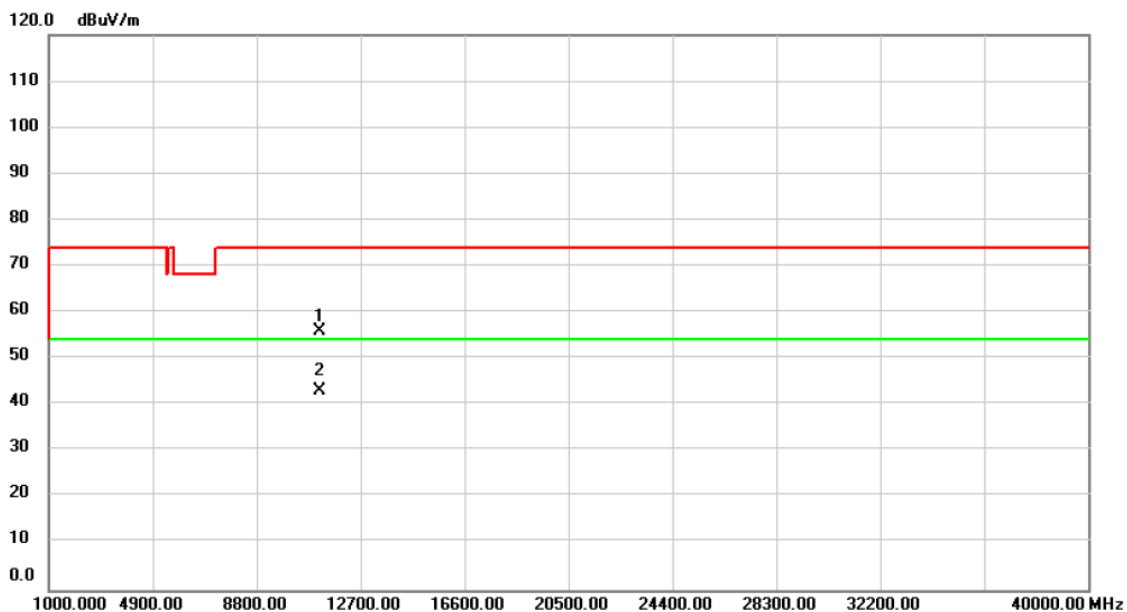
Orthogonal Axis: Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	49.34	37.86	87.20	74.00	13.20	peak	No Limit
2	*	5580.000	39.83	37.86	77.69	54.00	23.69	AVG	No Limit

Test MODE	UNII-2C/ TX N (HT20) MODE 5580MHz	Polarization	Horizontal
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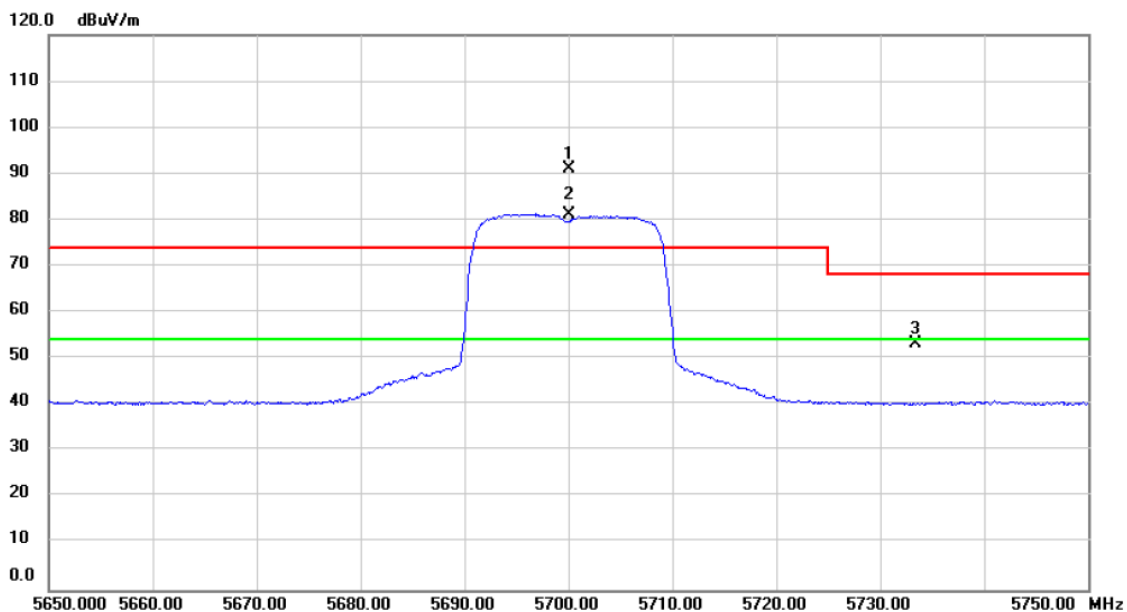
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11160.00	53.30	2.63	55.93	74.00	-18.07	peak	
2	*	11160.00	40.28	2.63	42.91	54.00	-11.09	AVG	

Test MODE	UNII-2C/ TX N (HT20) MODE 5700MHz	Polarization	Vertical
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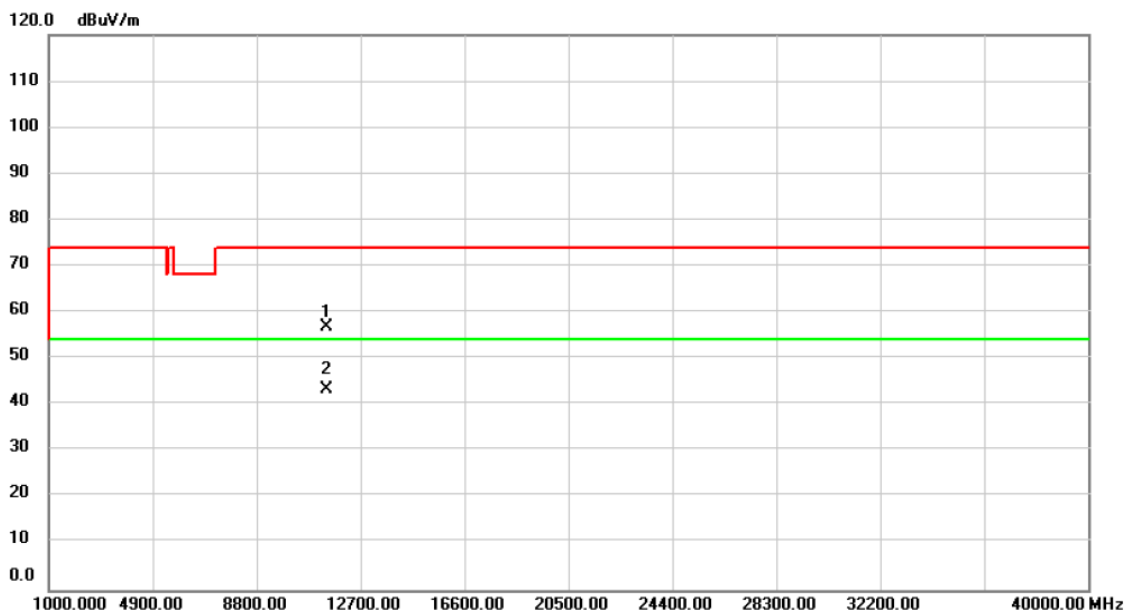
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5700.000	53.02	38.10	91.12	74.00	17.12	peak	No Limit
2	*	5700.000	43.18	38.10	81.28	54.00	27.28	AVG	No Limit
3		5733.375	15.22	38.17	53.39	68.20	-14.81	peak	

Test MODE	UNII-2C/ TX N (HT20) MODE 5700MHz	Polarization	Vertical
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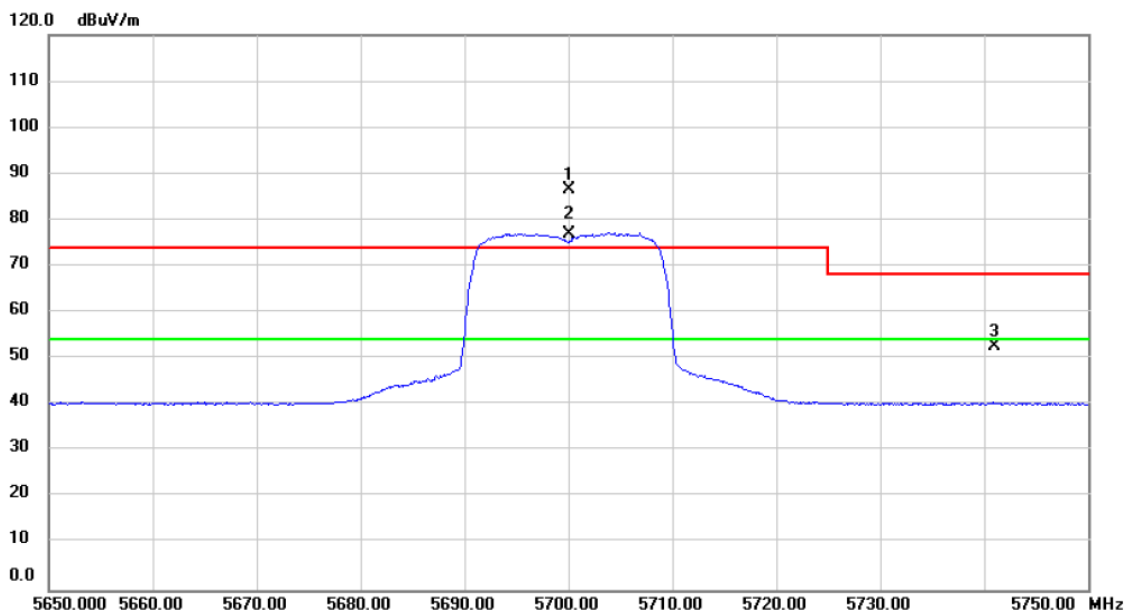
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11400.00	53.96	2.82	56.78	74.00	-17.22	peak	
2	*	11400.00	40.47	2.82	43.29	54.00	-10.71	AVG	

Test MODE	UNII-2C/ TX N (HT20) MODE 5700MHz	Polarization	Horizontal
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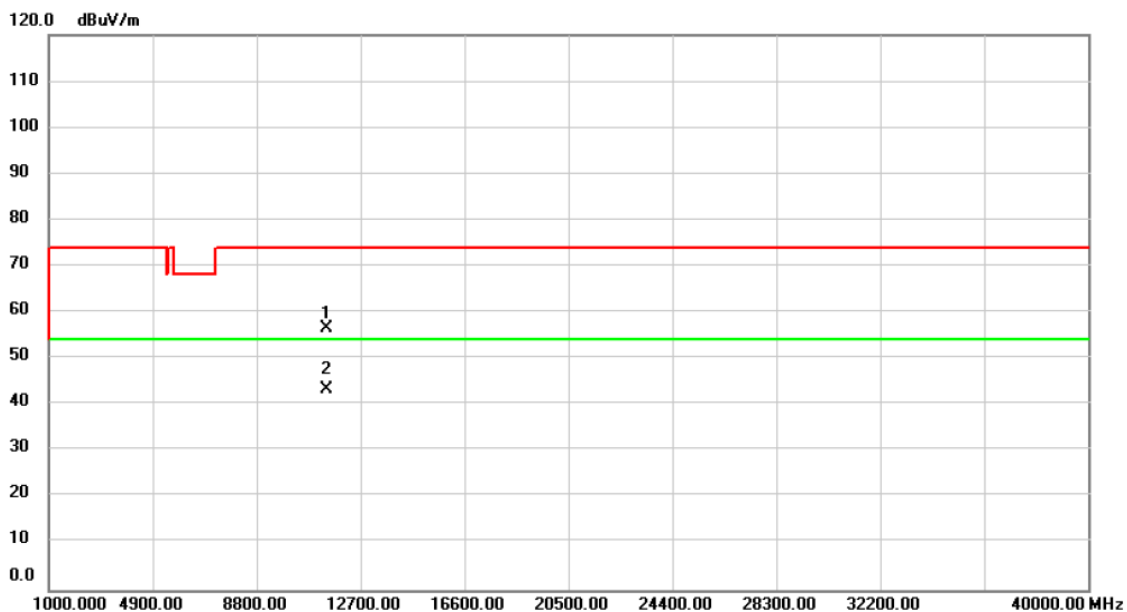
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5700.000	48.44	38.10	86.54	74.00	12.54	peak	No Limit
2	*	5700.000	38.86	38.10	76.96	54.00	22.96	AVG	No Limit
3		5741.025	14.60	38.19	52.79	68.20	-15.41	peak	

Test MODE	UNII-2C/ TX N (HT20) MODE 5700MHz	Polarization	Horizontal
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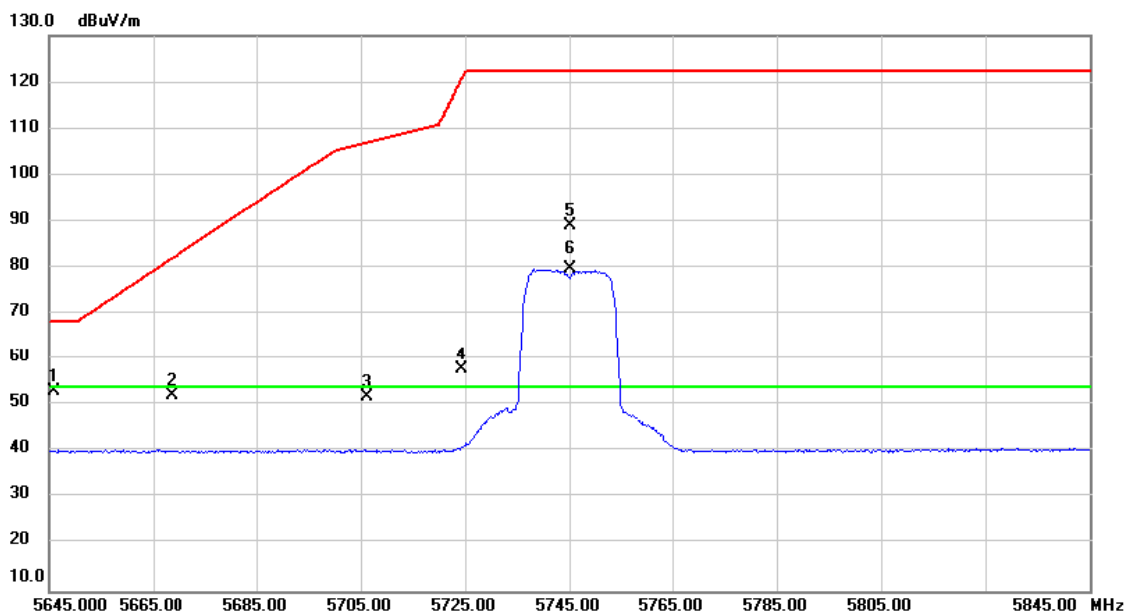
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11400.00	53.75	2.82	56.57	74.00	-17.43	peak	
2	*	11400.00	40.51	2.82	43.33	54.00	-10.67	AVG	

Test MODE	UNII-3/ TX A MODE 5745MHz	Polarization	Vertical
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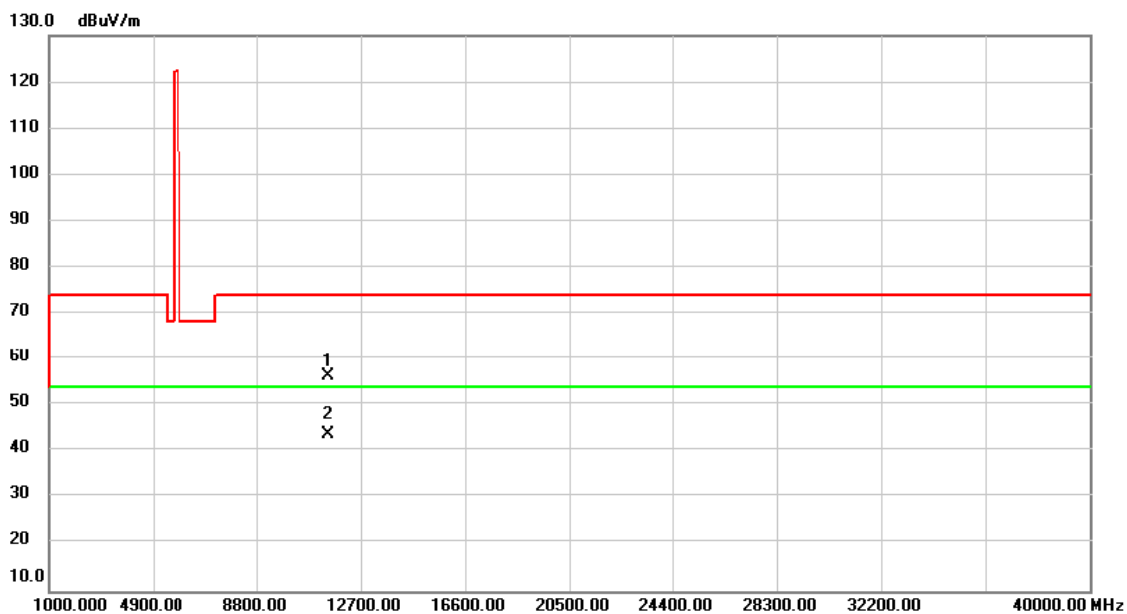
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5645.820	15.12	37.99	53.11	68.20	-15.09	peak	
2		5668.500	14.09	38.04	52.13	81.93	-29.80	peak	
3		5706.140	13.85	38.11	51.96	106.92	-54.96	peak	
4		5724.415	19.79	38.15	57.94	120.87	-62.93	peak	
5		5745.000	50.92	38.19	89.11	122.20	-33.09	peak	No Limit
6	*	5745.000	41.54	38.19	79.73	54.00	25.73	AVG	No Limit

Test MODE	UNII-3/ TX A MODE 5745MHz	Polarization	Vertical
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Orthogonal Axis: Z



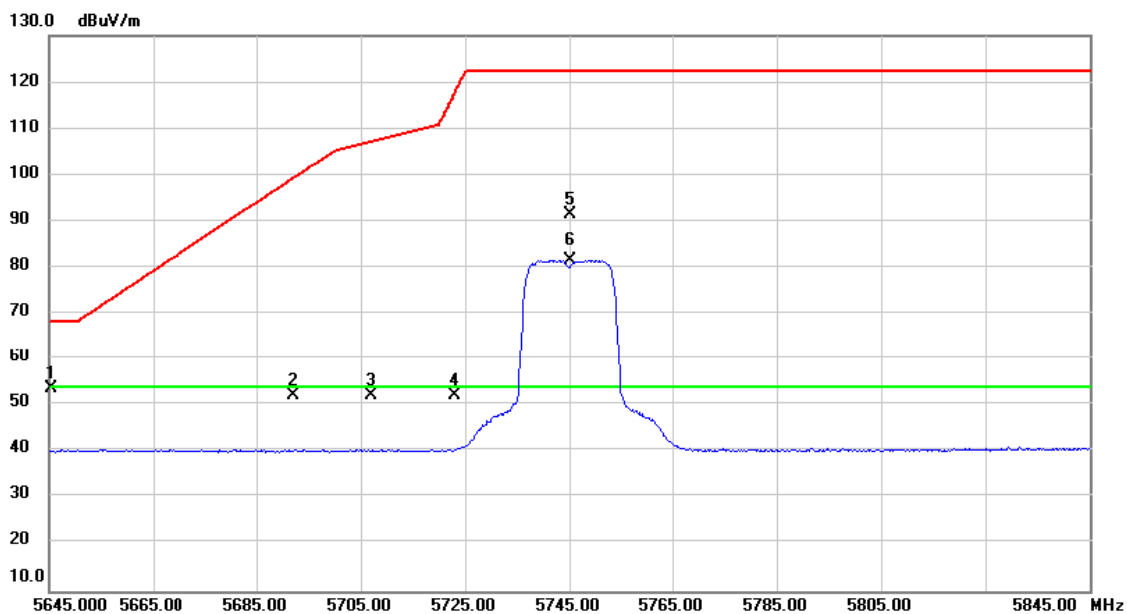
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	53.42	2.89	56.31	74.00	-17.69	peak	
2	*	11490.00	40.86	2.89	43.75	54.00	-10.25	AVG	

Test MODE UNII-3/ TX A MODE 5745MHz

Polarization

Horizontal

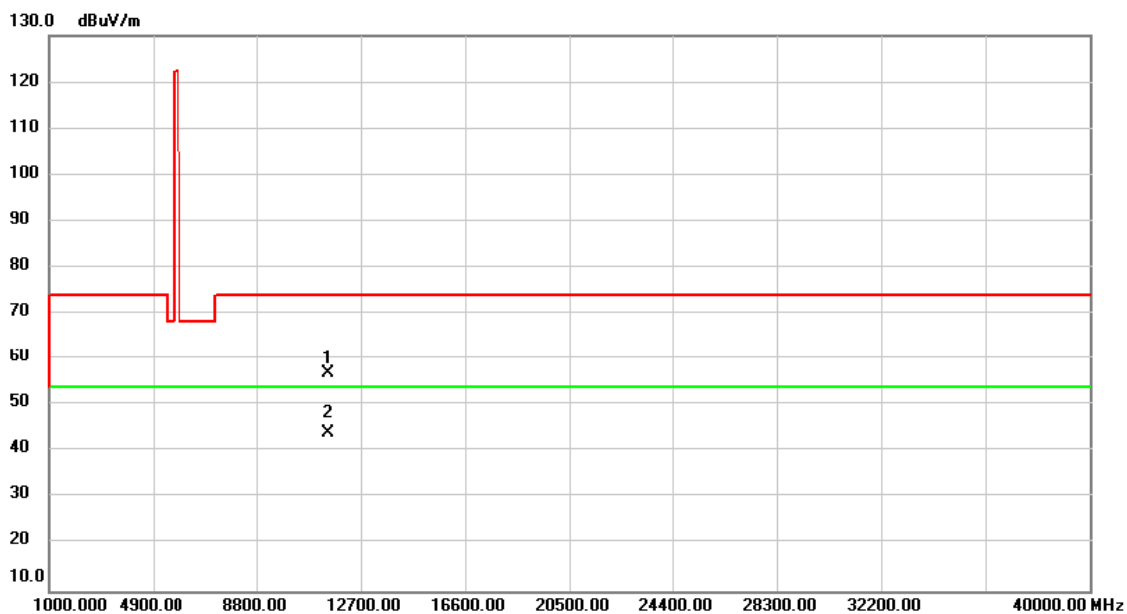
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5645.400	15.62	37.99	53.61	68.20	-14.59	peak	
2		5692.150	14.19	38.09	52.28	99.41	-47.13	peak	
3		5706.920	13.96	38.12	52.08	107.14	-55.06	peak	
4		5723.000	14.05	38.15	52.20	117.64	-65.44	peak	
5		5745.000	53.37	38.19	91.56	122.20	-30.64	peak	No Limit
6	*	5745.000	43.28	38.19	81.47	54.00	27.47	AVG	No Limit

Test MODE	UNII-3/ TX A MODE 5745MHz	Polarization	Horizontal
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Orthogonal Axis: Z



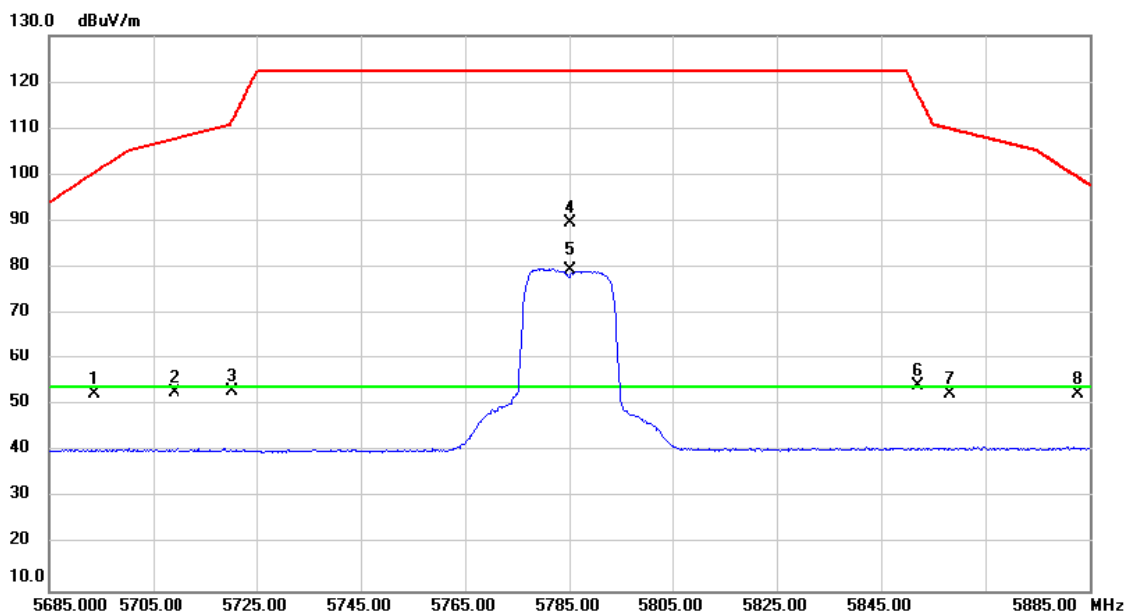
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	53.95	2.89	56.84	74.00	-17.16	peak	
2	*	11490.00	41.10	2.89	43.99	54.00	-10.01	AVG	

Test MODE UNII-3/ TX A MODE 5785MHz

Polarization

Vertical

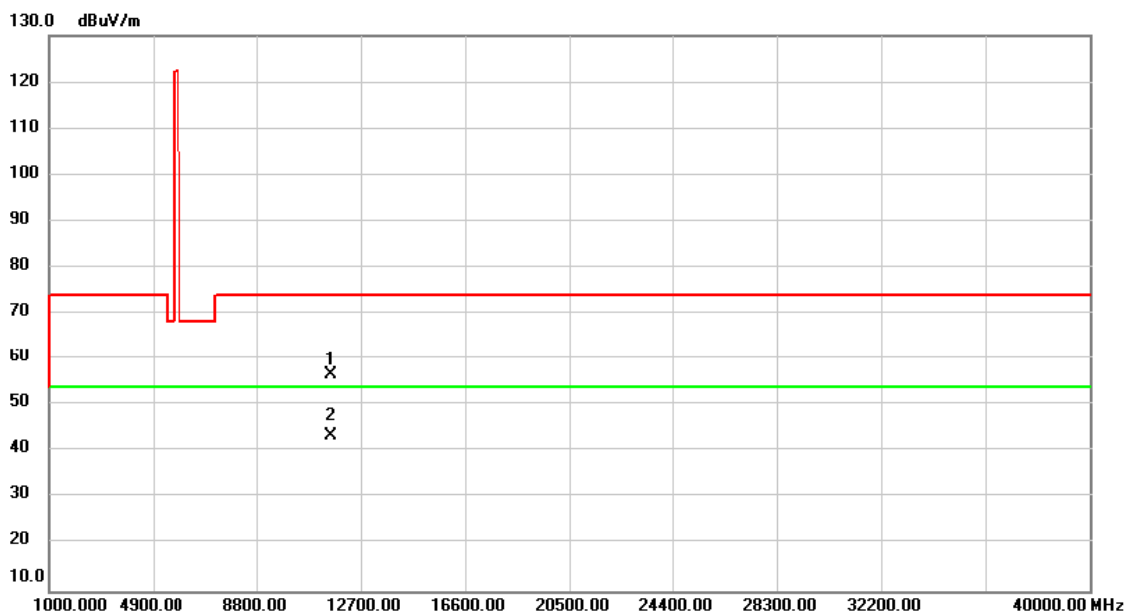
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5693.760	14.40	38.09	52.49	100.60	-48.11	peak	
2		5709.120	14.73	38.12	52.85	107.76	-54.91	peak	
3		5720.245	14.91	38.14	53.05	111.36	-58.31	peak	
4		5785.000	51.33	38.28	89.61	122.20	-32.59	peak	No Limit
5	*	5785.000	41.31	38.28	79.59	54.00	25.59	AVG	No Limit
6		5852.080	15.81	38.41	54.22	117.46	-63.24	peak	
7		5858.100	13.98	38.42	52.40	109.93	-57.53	peak	
8		5882.780	13.97	38.48	52.45	99.42	-46.97	peak	

Test MODE	UNII-3/ TX A MODE 5785MHz	Polarization	Vertical
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Orthogonal Axis: Z



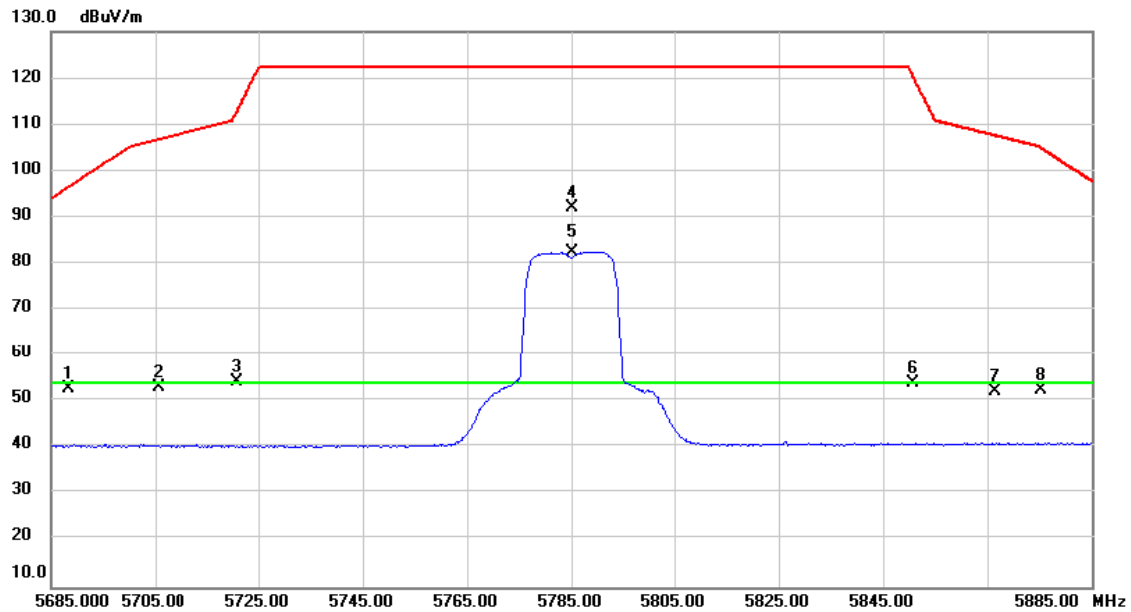
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	53.79	2.72	56.51	74.00	-17.49	peak	
2	*	11570.00	40.73	2.72	43.45	54.00	-10.55	AVG	

Test MODE UNII-3/ TX A MODE 5785MHz

Polarization

Horizontal

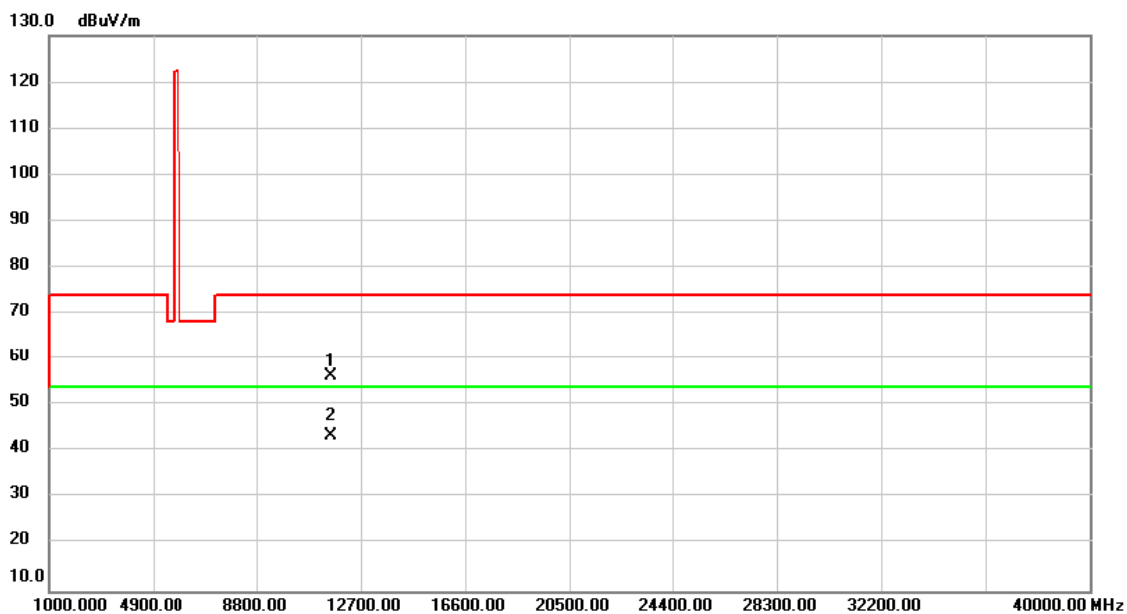
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5688.375	14.54	38.08	52.62	96.63	-44.01	peak	
2		5705.640	14.97	38.11	53.08	106.78	-53.70	peak	
3		5720.835	15.97	38.14	54.11	112.70	-58.59	peak	
4		5785.000	53.67	38.28	91.95	122.20	-30.25	peak	No Limit
5	*	5785.000	44.04	38.28	82.32	54.00	28.32	AVG	No Limit
6		5850.740	15.47	38.41	53.88	120.51	-66.63	peak	
7		5866.340	13.70	38.45	52.15	107.62	-55.47	peak	
8		5875.400	14.00	38.46	52.46	104.90	-52.44	peak	

Test MODE	UNII-3/ TX A MODE 5785MHz	Polarization	Horizontal
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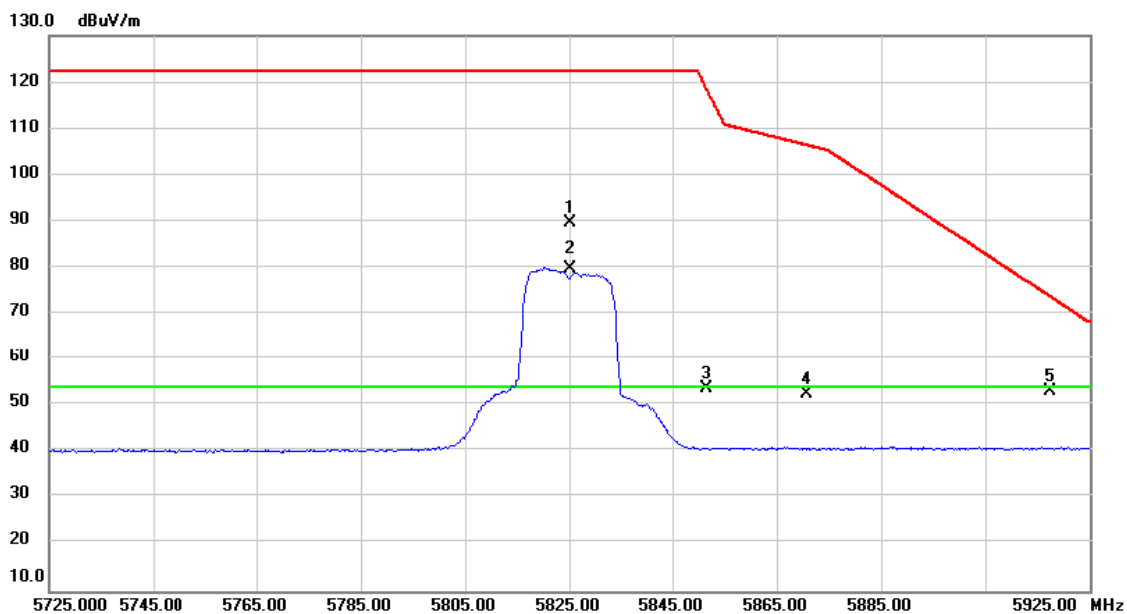
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	53.65	2.72	56.37	74.00	-17.63	peak	
2	*	11570.00	40.66	2.72	43.38	54.00	-10.62	AVG	

Test MODE	UNII-3/ TX A MODE 5825MHz	Polarization	Vertical
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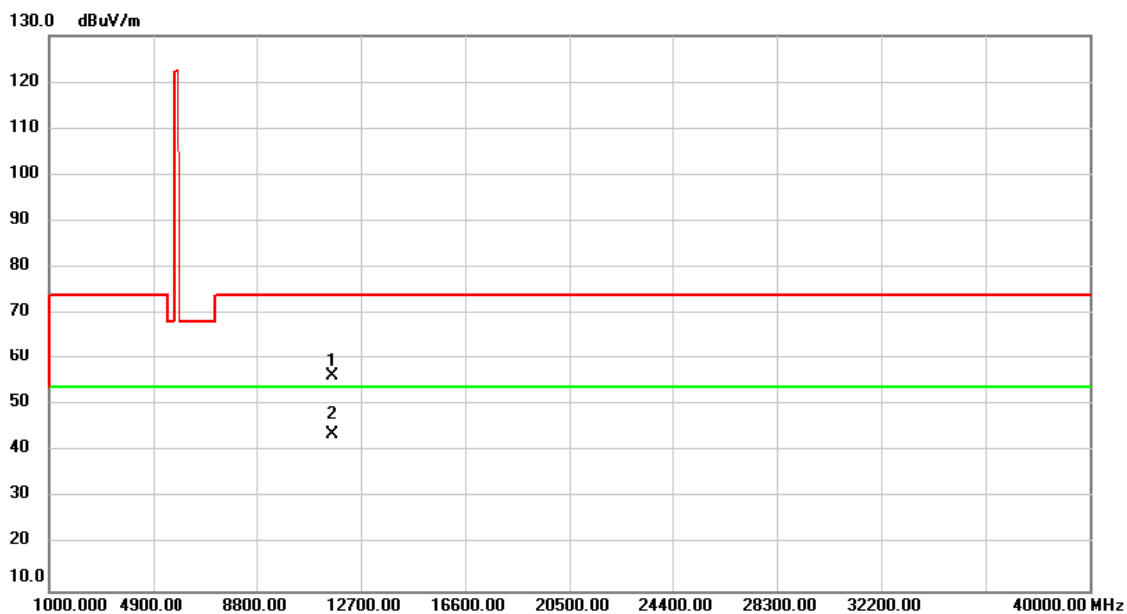
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5825.000	51.20	38.36	89.56	122.20	-32.64	peak	No Limit
2	*	5825.000	41.35	38.36	79.71	54.00	25.71	AVG	No Limit
3		5851.650	15.22	38.41	53.63	118.44	-64.81	peak	
4		5870.660	14.07	38.45	52.52	106.41	-53.89	peak	
5		5917.450	14.64	38.55	53.19	73.77	-20.58	peak	

Test MODE	UNII-3/ TX A MODE 5825MHz	Polarization	Vertical
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Orthogonal Axis: Z



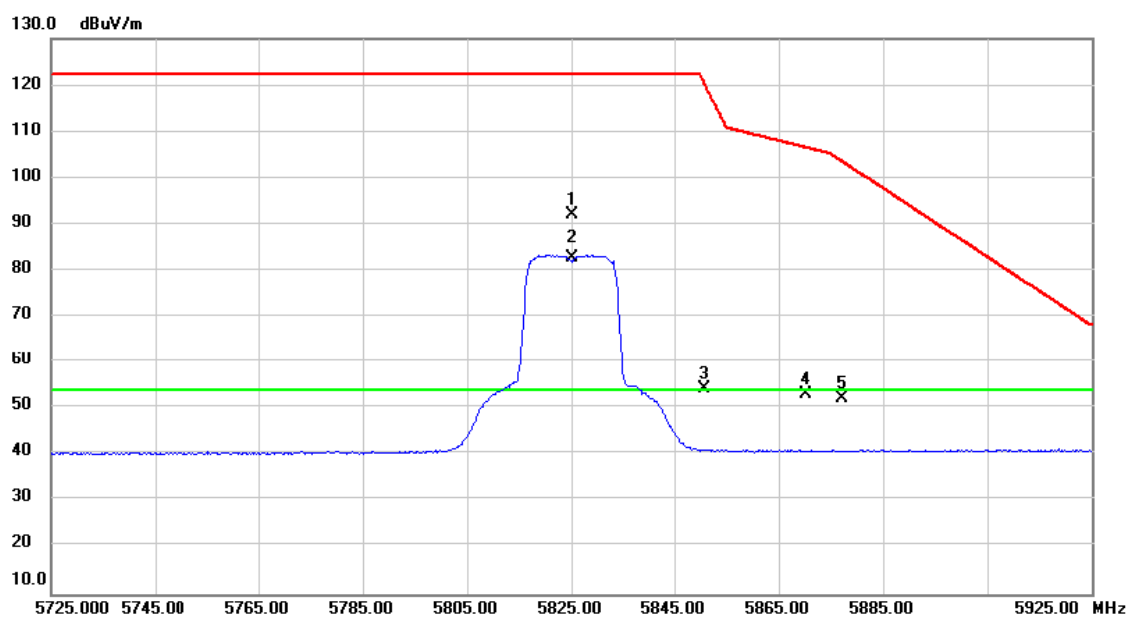
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	53.77	2.50	56.27	74.00	-17.73	peak	
2	*	11650.00	41.22	2.50	43.72	54.00	-10.28	AVG	

Test MODE UNII-3/ TX A MODE 5825MHz

Polarization

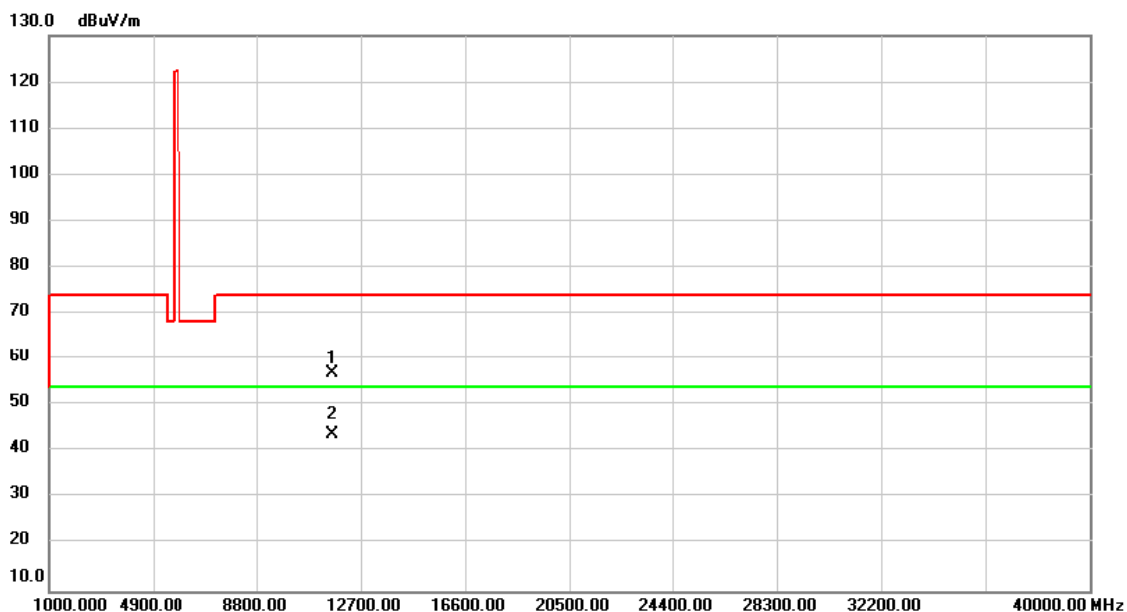
Horizontal

Orthogonal Axis: Z



Test MODE	UNII-3/ TX A MODE 5825MHz	Polarization	Horizontal
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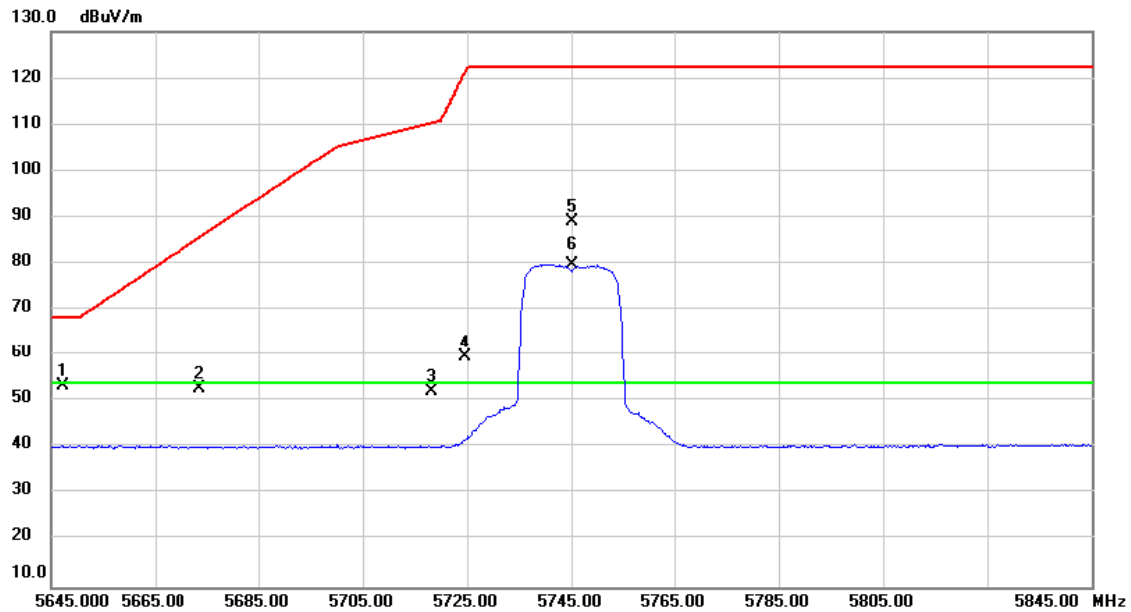
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	54.47	2.50	56.97	74.00	-17.03	peak	
2	*	11650.00	41.10	2.50	43.60	54.00	-10.40	AVG	

Test MODE	UNII-3/ TX N (HT20) MODE 5745MHz	Polarization	Vertical
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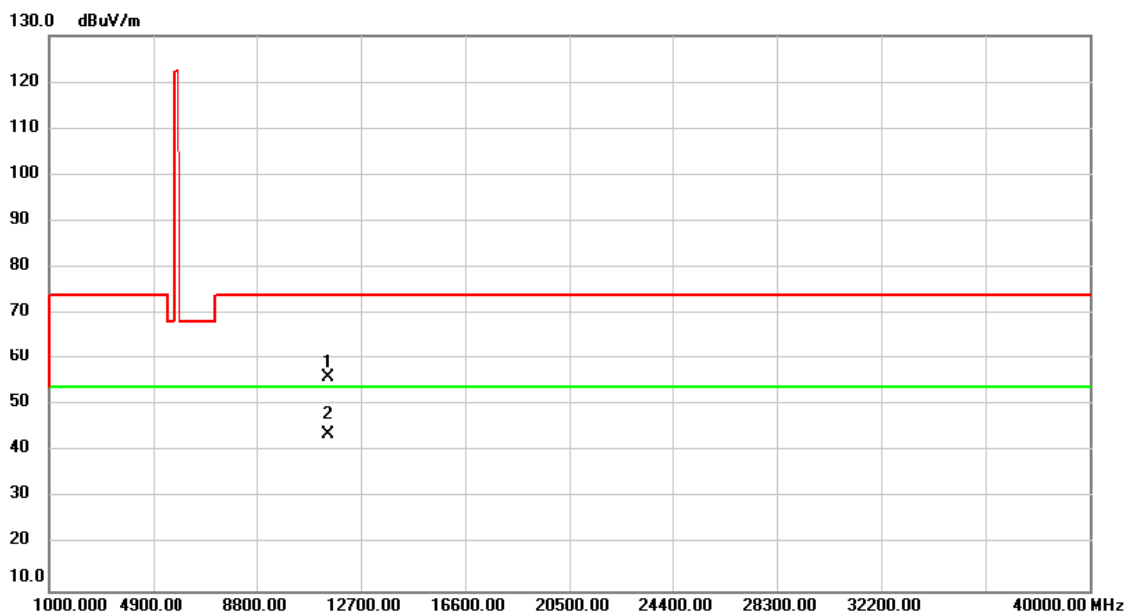
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5647.285	15.37	38.00	53.37	68.20	-14.83	peak	
2		5673.700	14.67	38.05	52.72	85.78	-33.06	peak	
3		5718.160	13.94	38.14	52.08	110.29	-58.21	peak	
4		5724.635	21.38	38.15	59.53	121.37	-61.84	peak	
5		5745.000	50.90	38.19	89.09	122.20	-33.11	peak	No Limit
6	*	5745.000	41.43	38.19	79.62	54.00	25.62	AVG	No Limit

Test MODE	UNII-3/ TX N (HT20) MODE 5745MHz	Polarization	Vertical
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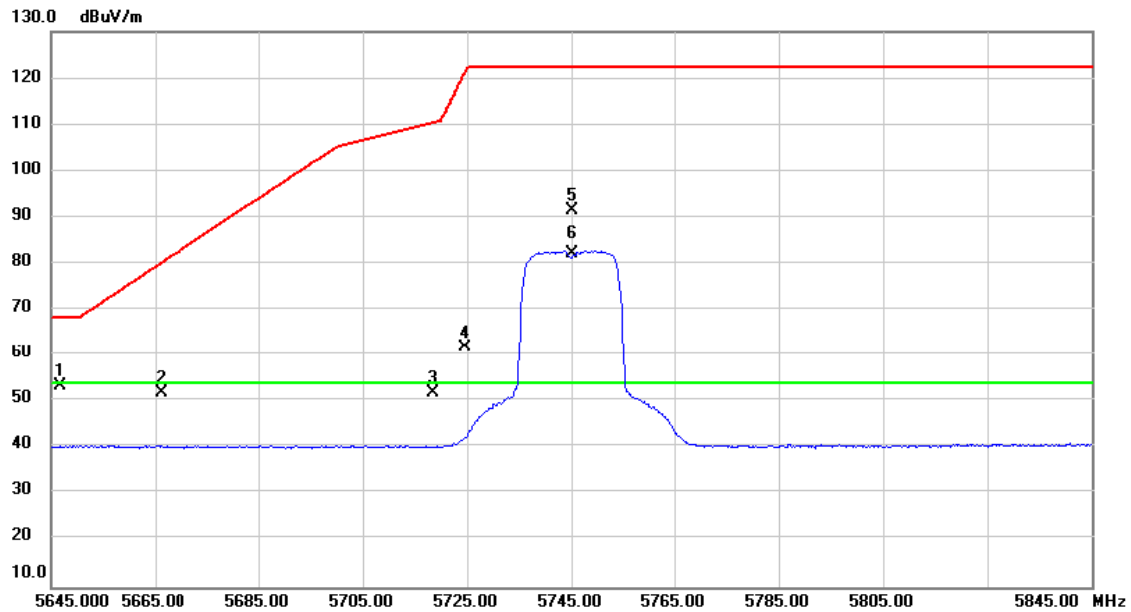
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	53.18	2.89	56.07	74.00	-17.93	peak	
2	*	11490.00	40.89	2.89	43.78	54.00	-10.22	AVG	

Test MODE	UNII-3/ TX N (HT20) MODE 5745MHz	Polarization	Horizontal
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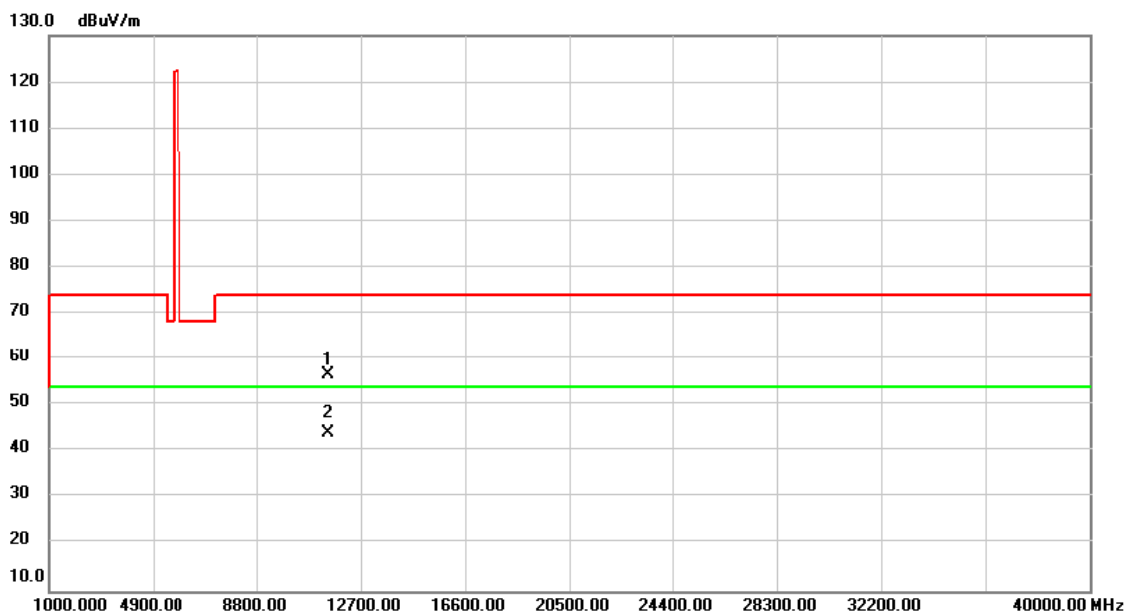
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5646.720	15.29	37.99	53.28	68.20	-14.92	peak	
2		5666.200	13.85	38.04	51.89	80.22	-28.33	peak	
3		5718.560	13.72	38.14	51.86	110.40	-58.54	peak	
4		5724.710	23.48	38.15	61.63	121.54	-59.91	peak	
5		5745.000	53.41	38.19	91.60	122.20	-30.60	peak	No Limit
6	*	5745.000	43.97	38.19	82.16	54.00	28.16	AVG	No Limit

Test MODE	UNII-3/ TX N (HT20) MODE 5745MHz	Polarization	Horizontal
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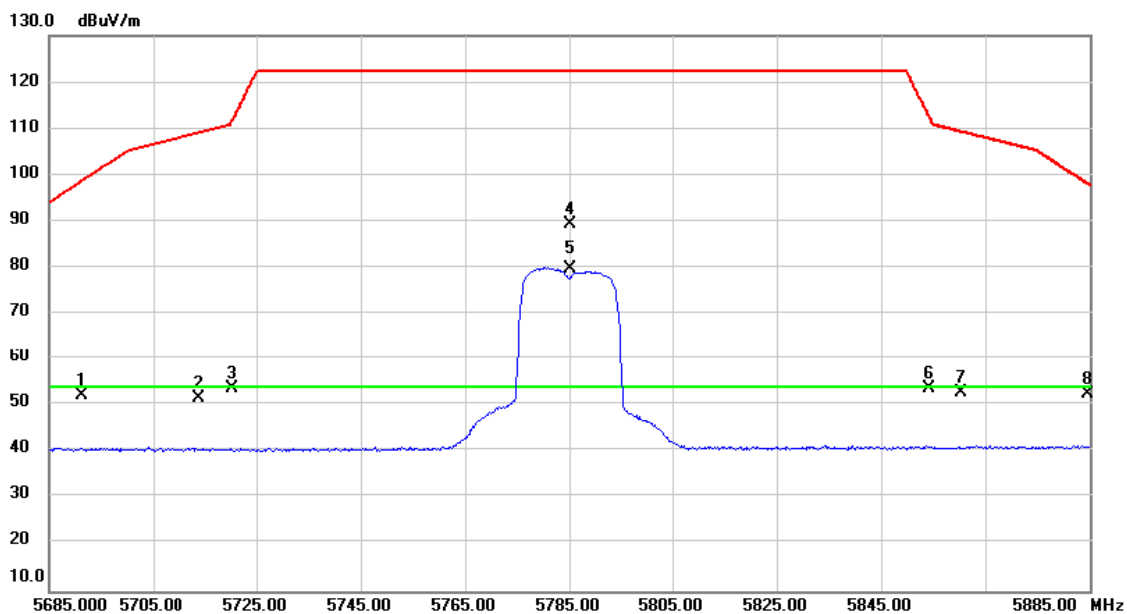
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	53.86	2.89	56.75	74.00	-17.25	peak	
2	*	11490.00	41.05	2.89	43.94	54.00	-10.06	AVG	

Test MODE UNII-3/ TX N (HT20) MODE 5785MHz Polarization Vertical

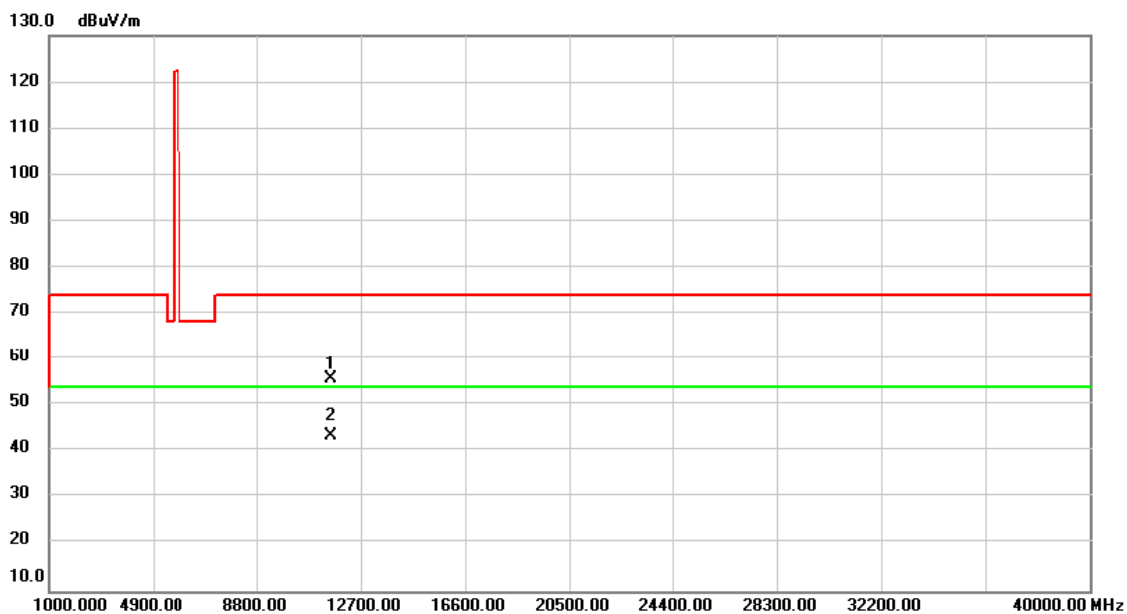
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5691.180	14.01	38.09	52.10	98.70	-46.60	peak	
2		5714.060	13.52	38.13	51.65	109.14	-57.49	peak	
3		5720.420	15.39	38.14	53.53	111.76	-58.23	peak	
4		5785.000	51.13	38.28	89.41	122.20	-32.79	peak	No Limit
5	*	5785.000	41.51	38.28	79.79	54.00	25.79	AVG	No Limit
6		5854.290	15.36	38.42	53.78	112.42	-58.64	peak	
7		5860.220	14.25	38.44	52.69	109.34	-56.65	peak	
8		5884.680	14.04	38.49	52.53	98.01	-45.48	peak	

Test MODE	UNII-3/ TX N (HT20) MODE 5785MHz	Polarization	Vertical
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Orthogonal Axis: Z



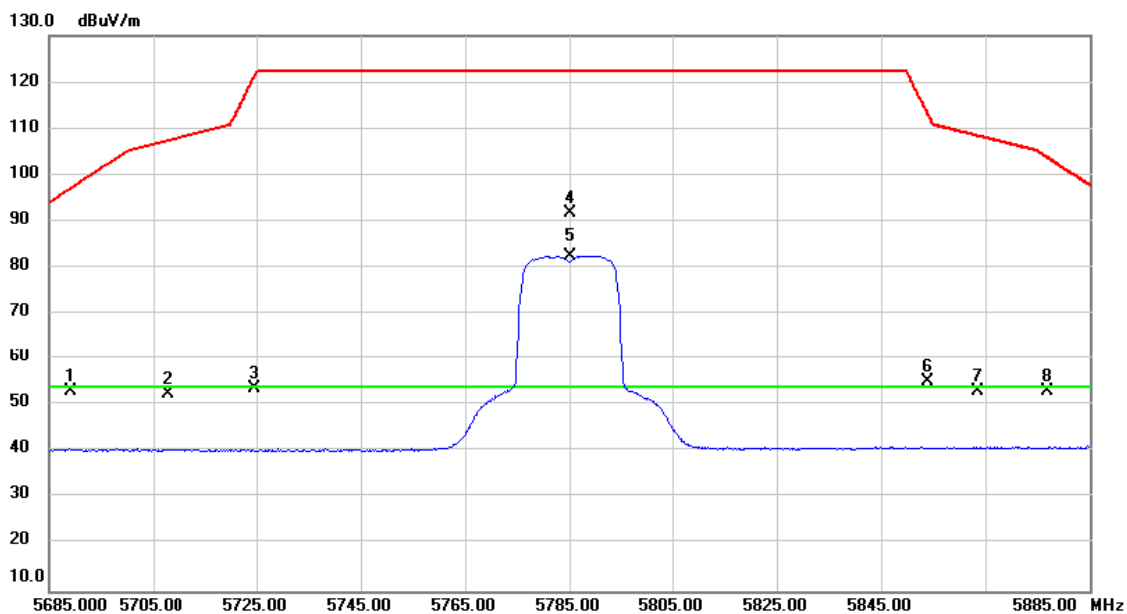
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	53.14	2.72	55.86	74.00	-18.14	peak	
2	*	11570.00	40.74	2.72	43.46	54.00	-10.54	AVG	

Test MODE UNII-3/ TX N (HT20) MODE 5785MHz

Polarization

Horizontal

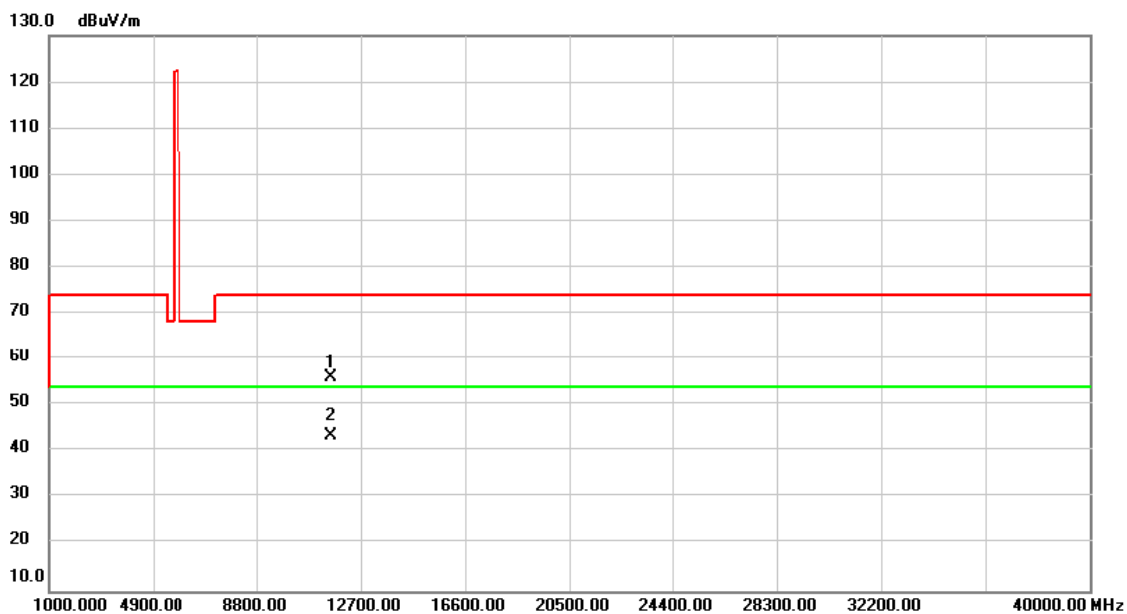
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5689.005	14.91	38.08	52.99	97.09	-44.10	peak	
2		5707.720	14.19	38.12	52.31	107.36	-55.05	peak	
3		5724.600	15.40	38.15	53.55	121.29	-67.74	peak	
4		5785.000	53.56	38.28	91.84	122.20	-30.36	peak	No Limit
5	*	5785.000	44.12	38.28	82.40	54.00	28.40	AVG	No Limit
6		5853.865	16.73	38.42	55.15	113.39	-58.24	peak	
7		5863.440	14.59	38.44	53.03	108.43	-55.40	peak	
8		5876.900	14.67	38.46	53.13	103.79	-50.66	peak	

Test MODE	UNII-3/ TX N (HT20) MODE 5785MHz	Polarization	Horizontal
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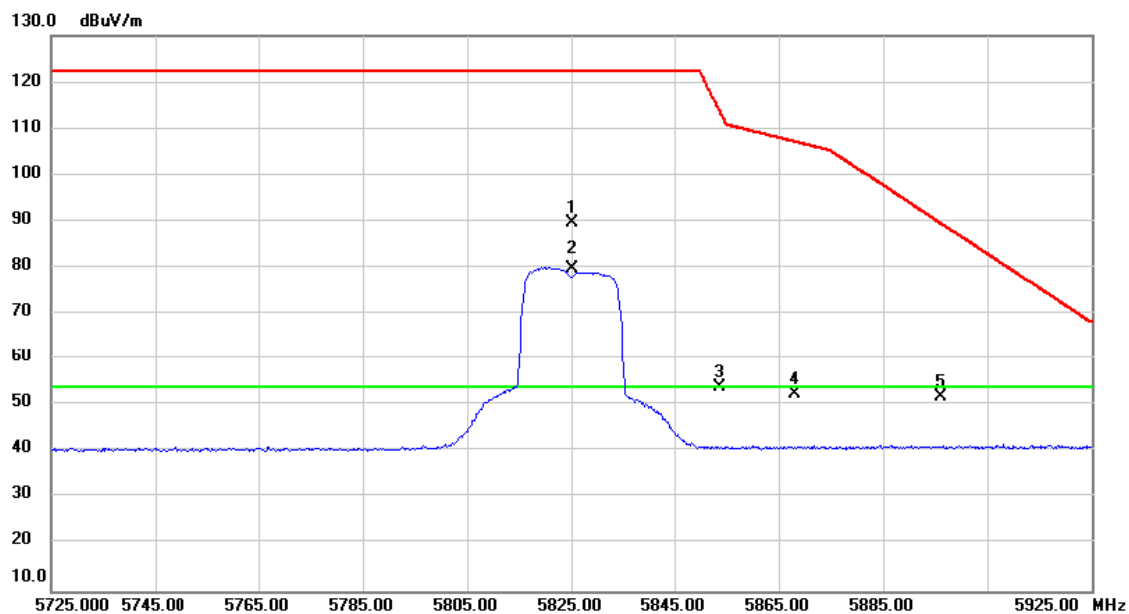
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	53.27	2.72	55.99	74.00	-18.01	peak	
2	*	11570.00	40.62	2.72	43.34	54.00	-10.66	AVG	

Test MODE UNII-3/ TX N (HT20) MODE 5825MHz Polarization Vertical

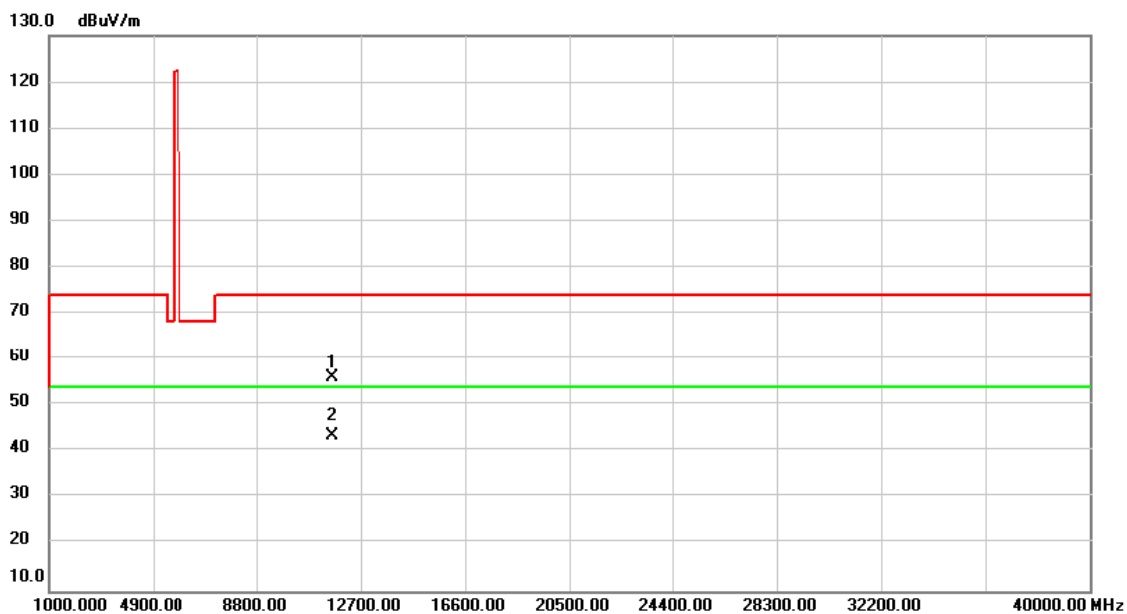
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5825.000	51.31	38.36	89.67	122.20	-32.53	peak	No Limit
2	*	5825.000	41.46	38.36	79.82	54.00	25.82	AVG	No Limit
3		5853.585	15.67	38.42	54.09	114.03	-59.94	peak	
4		5868.000	14.03	38.45	52.48	107.16	-54.68	peak	
5		5896.000	13.29	38.50	51.79	89.62	-37.83	peak	

Test MODE	UNII-3/ TX N (HT20) MODE 5825MHz	Polarization	Vertical
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Orthogonal Axis: Z



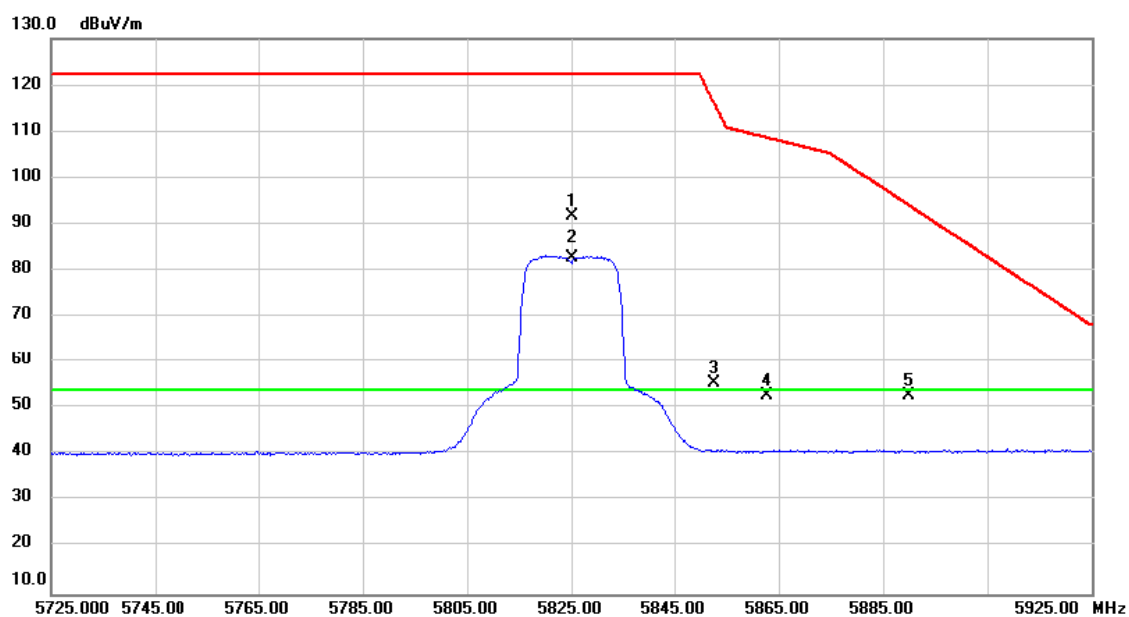
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	53.66	2.50	56.16	74.00	-17.84	peak	
2	*	11650.00	41.00	2.50	43.50	54.00	-10.50	AVG	

Test MODE UNII-3/ TX N (HT20) MODE 5825MHz

Polarization

Horizontal

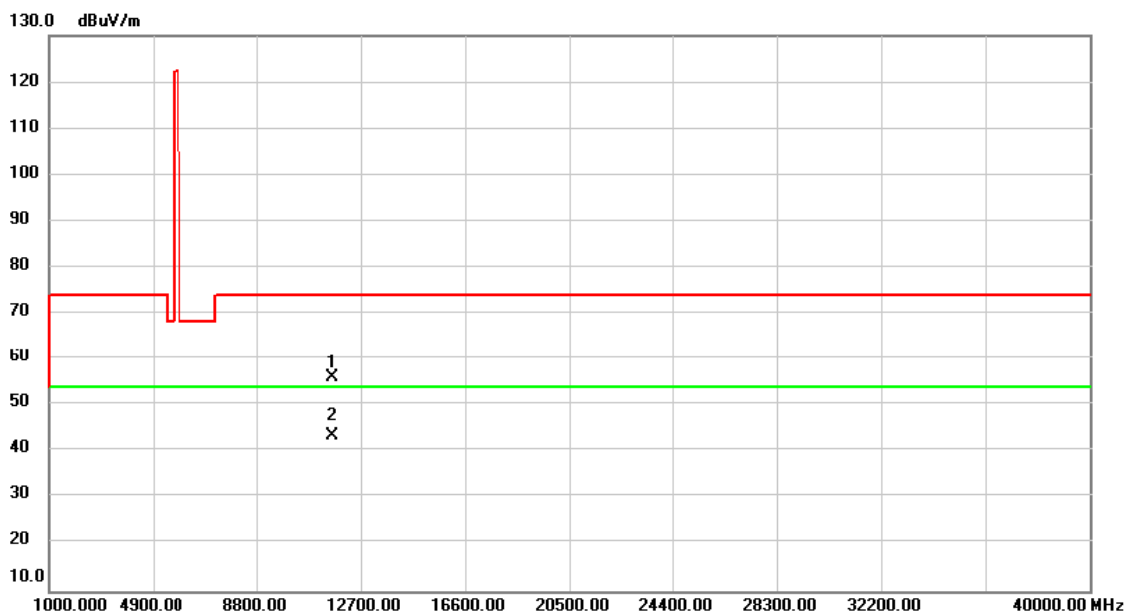
Orthogonal Axis: Z



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5825.000	53.52	38.36	91.88	122.20	-30.32	peak	No Limit
2	*	5825.000	44.25	38.36	82.61	54.00	28.61	AVG	No Limit
3		5852.525	16.93	38.41	55.34	116.44	-61.10	peak	
4		5862.700	14.30	38.44	52.74	108.64	-55.90	peak	
5		5890.000	14.15	38.49	52.64	94.07	-41.43	peak	

Test MODE	UNII-3/ TX N (HT20) MODE 5825MHz	Polarization	Horizontal
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Orthogonal Axis: Z



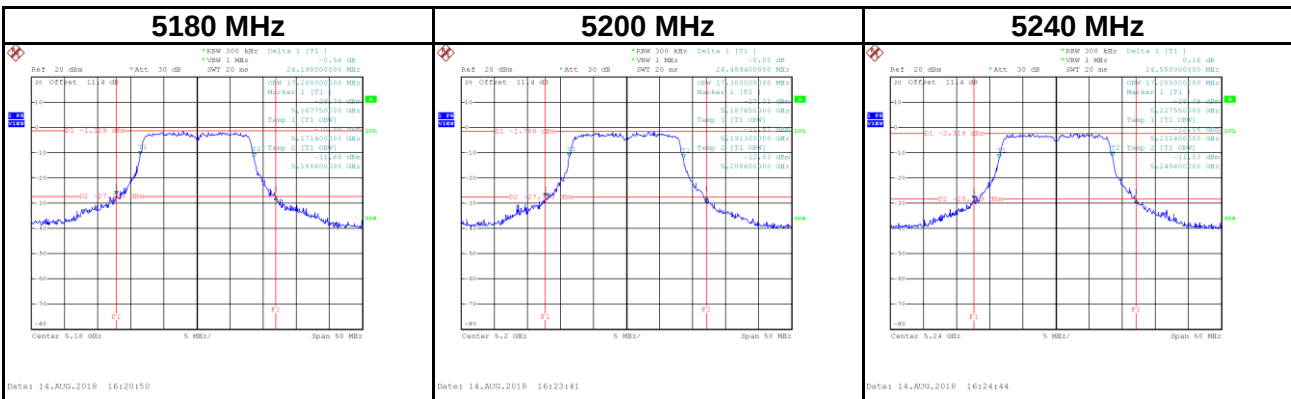
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	53.56	2.50	56.06	74.00	-17.94	peak	
2	*	11650.00	40.98	2.50	43.48	54.00	-10.52	AVG	

APPENDIX E BANDWIDTH

CONTINUE ON NEXT PAGE

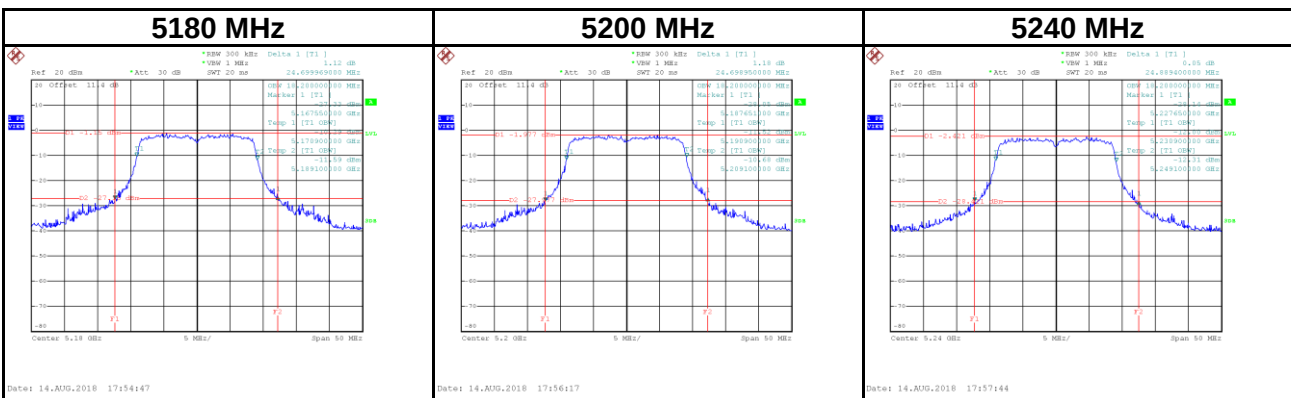
Test Mode UNII-1_ IEEE 802.11a

Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5180	24.19	17.20
5200	24.49	17.30
5240	24.55	17.20



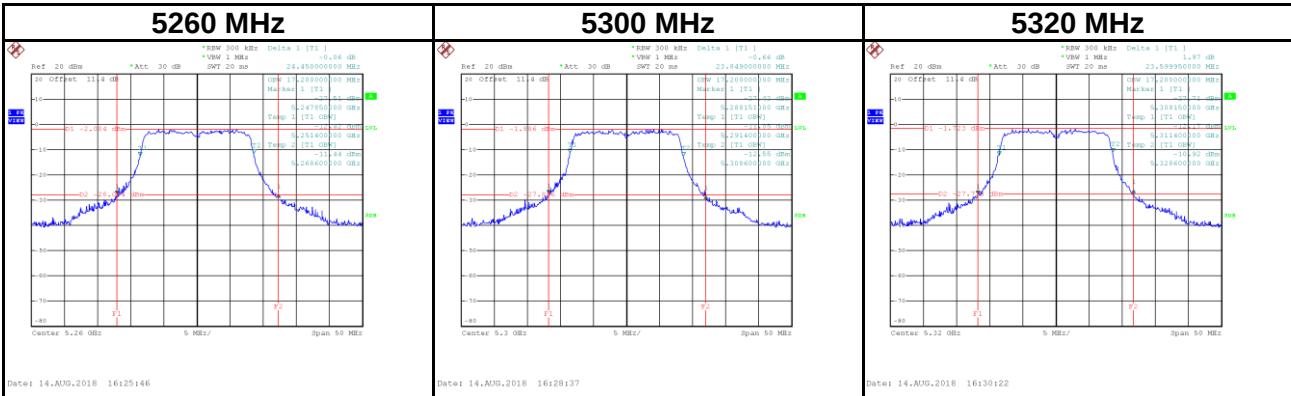
Test Mode UNII-1_ IEEE 802.11n (HT20)

Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5180	24.70	18.20
5200	24.70	18.20
5240	24.89	18.20



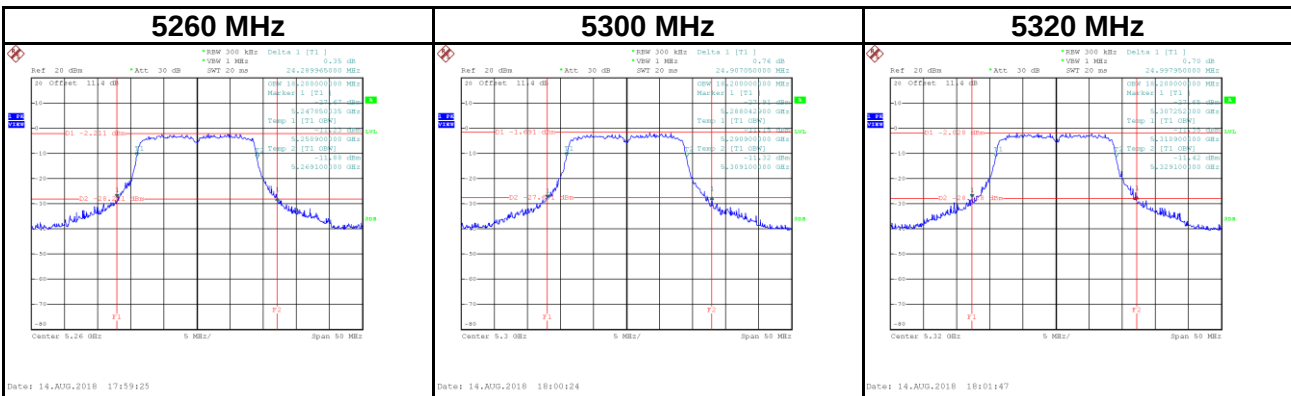
Test Mode UNII-2A_ IEEE 802.11a

Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5260	24.45	17.20
5300	23.85	17.20
5320	23.60	17.20



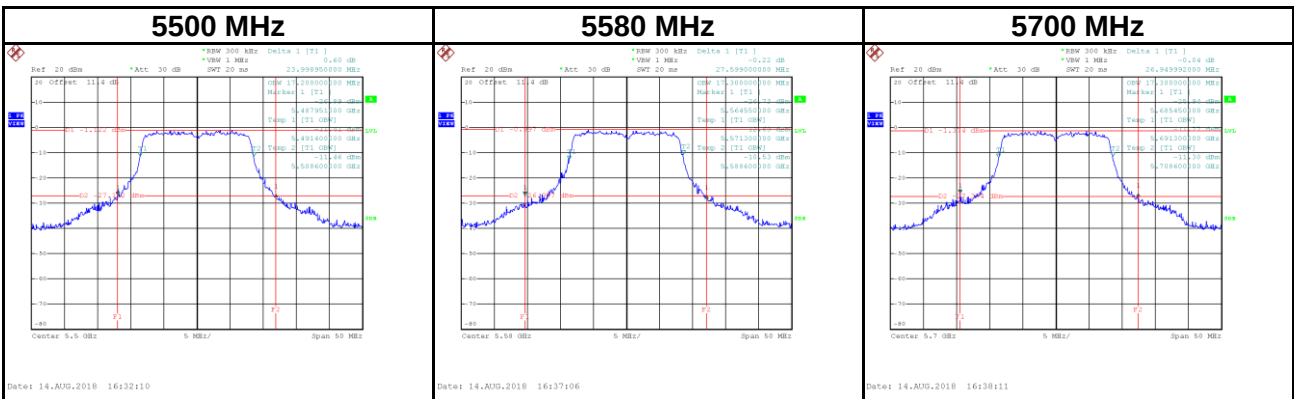
Test Mode UNII-2A_ IEEE 802.11n (HT20)

Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5260	24.29	18.20
5300	24.91	18.20
5320	25.00	18.20



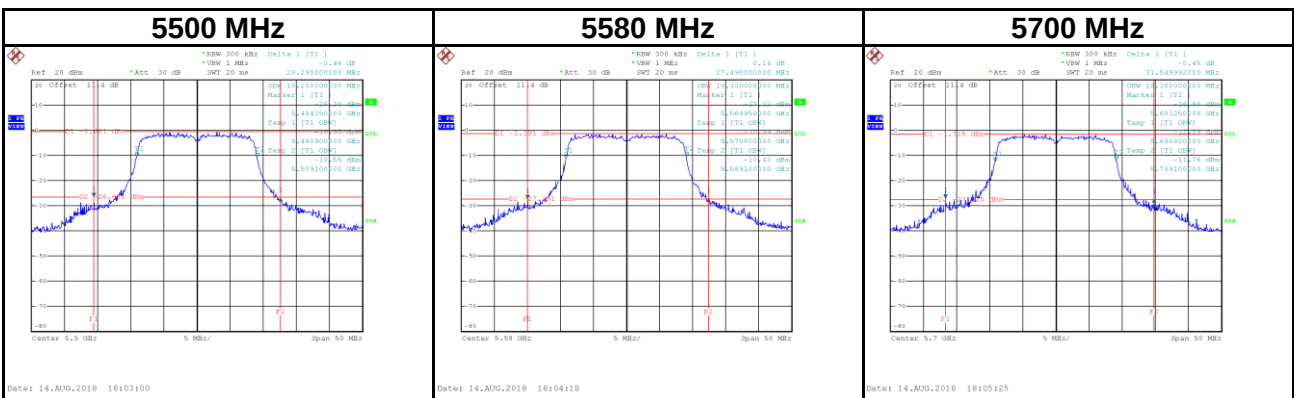
Test Mode	UNII-2C_ IEEE 802.11a
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Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5500	24.00	17.20
5580	27.60	17.30
5700	26.95	17.30



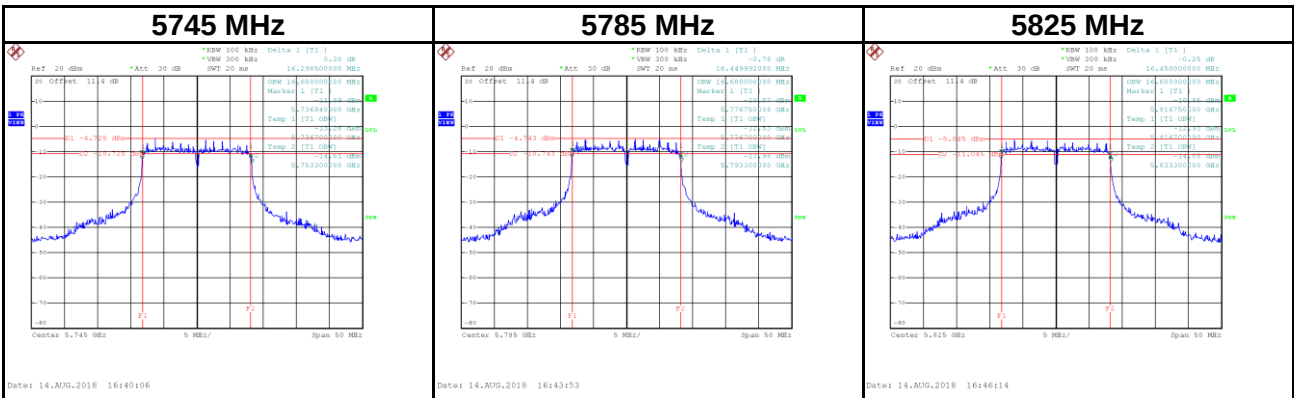
Test Mode	UNII-2C_ IEEE 802.11n (HT20)
-----------	------------------------------

Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5500	28.29	18.20
5580	27.49	18.30
5700	31.55	18.30



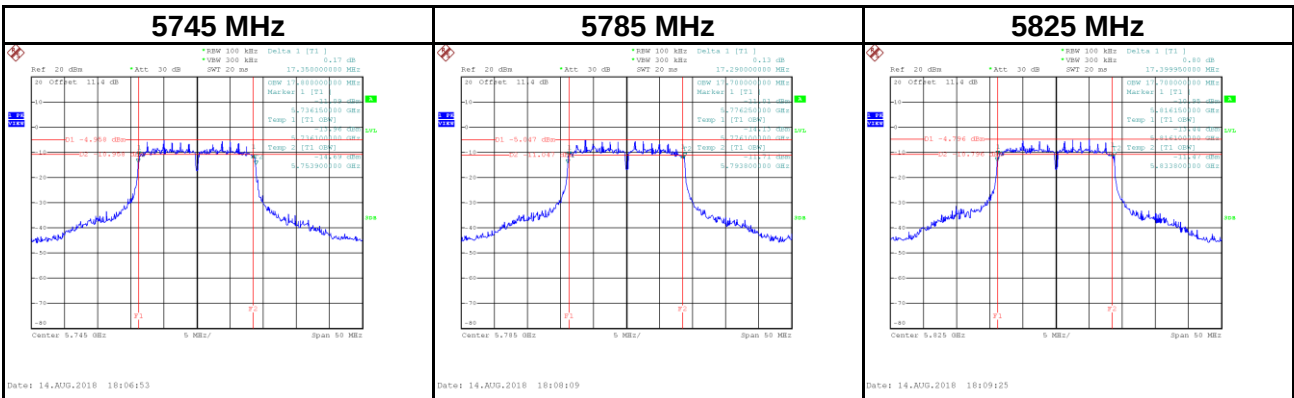
Test Mode	UNII-3_ IEEE 802.11a
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Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit (kHz)	Result
5745	16.30	16.60	500.00	Complies
5785	16.45	16.60	500.00	Complies
5825	16.45	16.60	500.00	Complies



Test Mode	UNII-3_ IEEE 802.11n (HT20)
-----------	-----------------------------

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit (kHz)	Result
5745	17.35	17.80	500.00	Complies
5785	17.29	17.70	500.00	Complies
5825	17.40	17.70	500.00	Complies



APPENDIX F CONDUCTED OUTPUT POWER

CONTINUE ON NEXT PAGE

Test Mode	UNII-1_ IEEE 802.11a
-----------	----------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5180	7.35	0.0054	30.00	1.0000	Complies
5200	7.51	0.0056	30.00	1.0000	Complies
5240	7.58	0.0057	30.00	1.0000	Complies

Test Mode	UNII-1_ IEEE 802.11n (HT20)
-----------	-----------------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5180	7.74	0.0059	30.00	1.0000	Complies
5200	7.59	0.0057	30.00	1.0000	Complies
5240	7.40	0.0055	30.00	1.0000	Complies

Test Mode	UNII-2A_ IEEE 802.11a
-----------	-----------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5260	7.54	0.0057	24.00	0.2512	Complies
5300	7.53	0.0057	24.00	0.2512	Complies
5320	7.46	0.0056	24.00	0.2512	Complies

Test Mode	UNII-2A_ IEEE 802.11n (HT20)
-----------	------------------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5260	7.64	0.0058	24.00	0.2512	Complies
5300	7.32	0.0054	24.00	0.2512	Complies
5320	7.31	0.0054	24.00	0.2512	Complies

Test Mode	UNII-2C_IIEEE 802.11a
-----------	-----------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5500	7.54	0.0057	24.00	0.2512	Complies
5580	7.51	0.0056	24.00	0.2512	Complies
5700	7.71	0.0059	24.00	0.2512	Complies

Test Mode	UNII-2C_IIEEE 802.11n (HT20)
-----------	------------------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5500	7.71	0.0059	24.00	0.2512	Complies
5580	7.52	0.0056	24.00	0.2512	Complies
5700	7.74	0.0059	24.00	0.2512	Complies

Test Mode	UNII-3_IIEEE 802.11a
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5745	7.46	0.0056	30.00	1.0000	Complies
5785	7.58	0.0057	30.00	1.0000	Complies
5825	7.46	0.0056	30.00	1.0000	Complies

Test Mode	UNII-3_IIEEE 802.11n (HT20)
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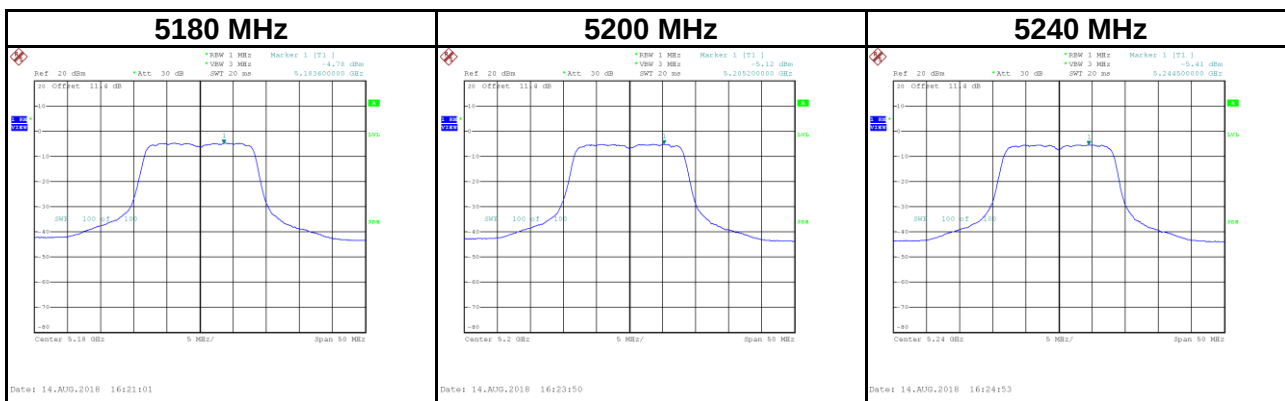
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
5745	7.43	0.0055	30.00	1.0000	Complies
5785	7.48	0.0056	30.00	1.0000	Complies
5825	7.38	0.0055	30.00	1.0000	Complies

APPENDIX G POWER SPECTRAL DENSITY

CONTINUE ON NEXT PAGE

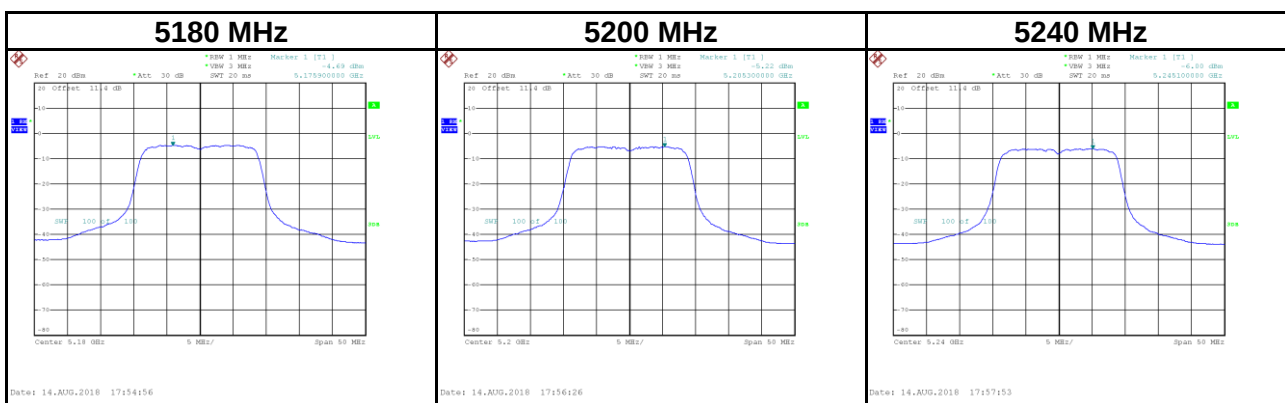
Test Mode	UNII-1 IEEE 802.11a
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Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	-4.78	0.10	-4.68	17.00	Complies
5200	-5.12	0.10	-5.02	17.00	Complies
5240	-5.41	0.10	-5.31	17.00	Complies



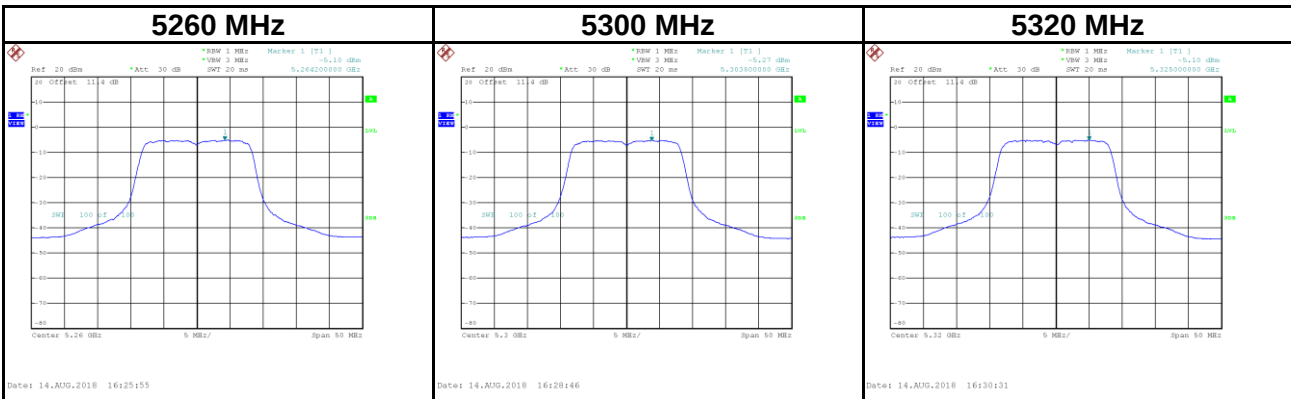
Test Mode	UNII-1_ IEEE 802.11n (HT20)
-----------	-----------------------------

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5180	-4.69	0.09	-4.60	17.00	Complies
5200	-5.22	0.09	-5.13	17.00	Complies
5240	-6.00	0.09	-5.91	17.00	Complies



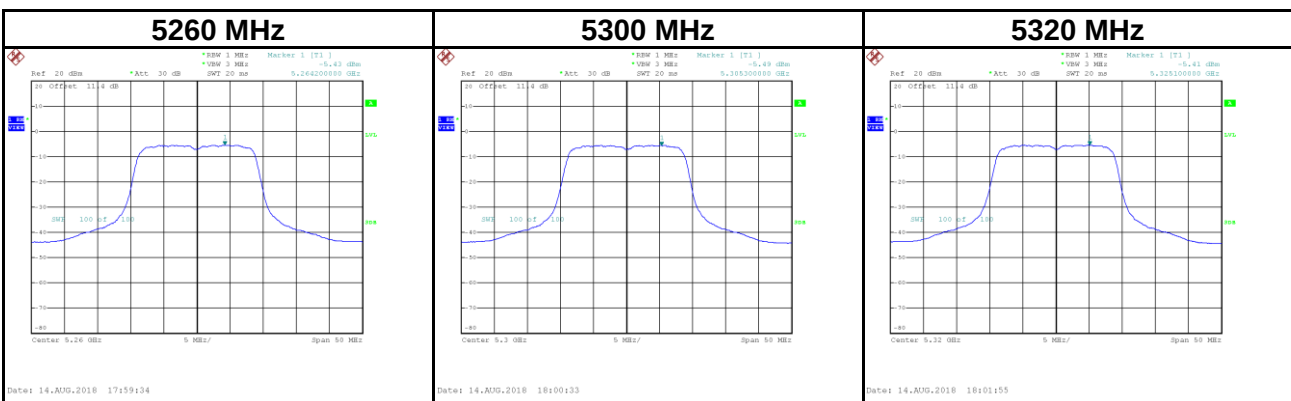
Test Mode UNII-2A_ IEEE 802.11a

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5260	-5.10	0.10	-5.00	11.00	Complies
5300	-5.27	0.10	-5.17	11.00	Complies
5320	-5.10	0.10	-5.00	11.00	Complies



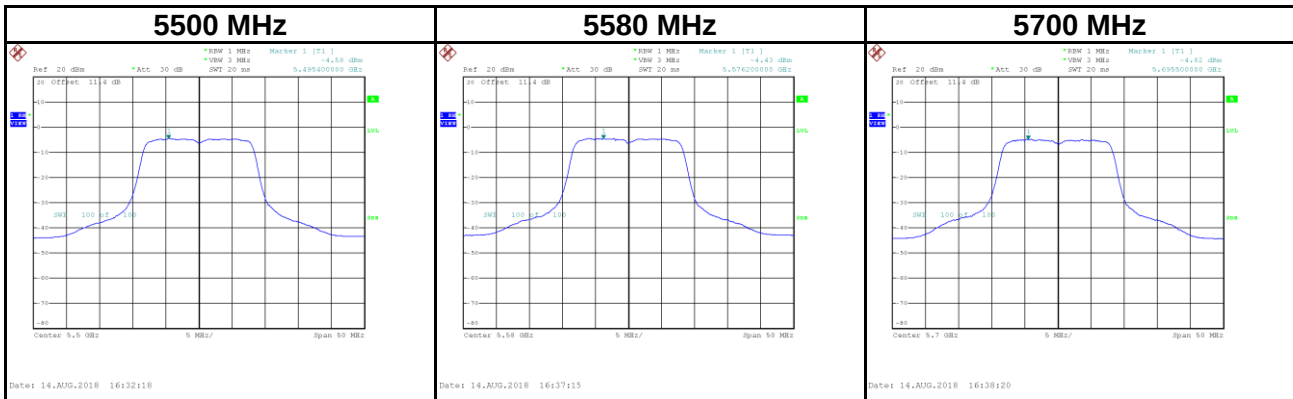
Test Mode UNII-2A_ IEEE 802.11n (HT20)

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5260	-5.43	0.09	-5.34	11.00	Complies
5300	-5.49	0.09	-5.40	11.00	Complies
5320	-5.41	0.09	-5.32	11.00	Complies



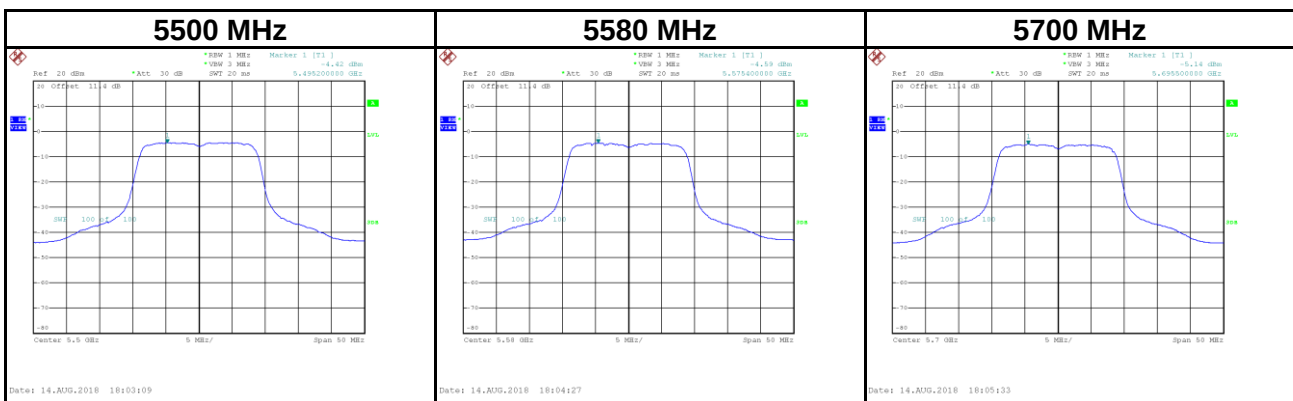
Test Mode UNII-2C_ IEEE 802.11a

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5500	-4.58	0.10	-4.48	11.00	Complies
5580	-4.43	0.10	-4.33	11.00	Complies
5700	-4.82	0.10	-4.72	11.00	Complies



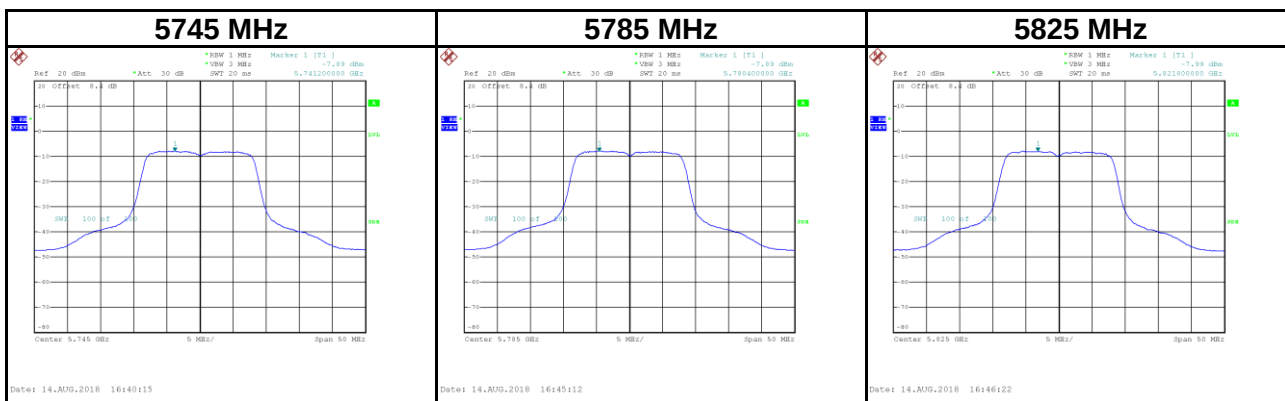
Test Mode UNII-2C_ IEEE 802.11n (HT20)

Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)	Result
5500	-4.42	0.09	-4.33	11.00	Complies
5580	-4.59	0.09	-4.50	11.00	Complies
5700	-5.14	0.09	-5.05	11.00	Complies



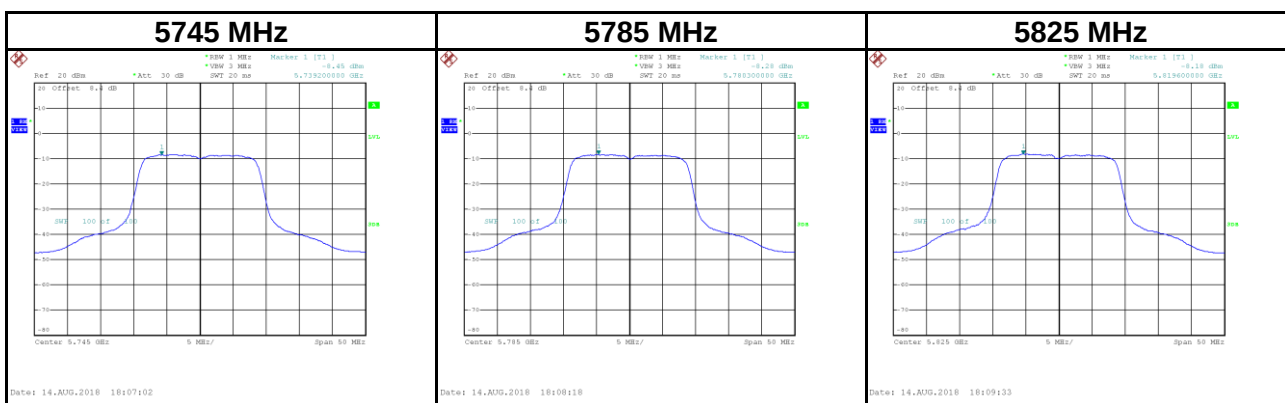
Test Mode	UNII-3 IEEE 802.11a
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Frequency (MHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Result
5745	-7.89	0.10	-7.79	30.00	Complies
5785	-7.89	0.10	-7.79	30.00	Complies
5825	-7.99	0.10	-7.89	30.00	Complies



Test Mode	UNII-3_IIEEE 802.11n (HT20)
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Frequency (MHz)	Power Density (dBm/500 kHz)	Duty Factor (dB)	Power Density + Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Result
5745	-8.45	0.09	-8.36	30.00	Complies
5785	-8.28	0.09	-8.19	30.00	Complies
5825	-8.18	0.09	-8.09	30.00	Complies



APPENDIX H FREQUENCY STABILITY

CONTINUE ON NEXT PAGE

Test Mode	UNII-1
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Voltage vs. Frequency Stability

Operating Frequency	5180
Voltage (V)	Measurement Frequency (MHz)
132	5.1800
120	5.1800
108	5.1800
Maximum Deviation (MHz)	5174.8200
Maximum Deviation (ppm)	999000.0022

Temperature vs. Frequency Stability

Operating Frequency	5180
Temperature (°C)	Measurement Frequency (MHz)
0	5179.9884
10	5179.9884
20	5179.9884
30	5179.9880
40	5179.9880
Max. Deviation (MHz)	0.0120
Max. Deviation (ppm)	2.3166
Maximum Deviation (MHz)	0.0000
Maximum Deviation (ppm)	0.0000

Test Mode	UNII-2A
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Voltage vs. Frequency Stability

Operating Frequency	5260
Voltage (V)	Measurement Frequency (MHz)
132	5.2600
120	5.2600
108	5.2600
Maximum Deviation (MHz)	5254.7400
Maximum Deviation (ppm)	999000.0023

Temperature vs. Frequency Stability

Operating Frequency	5259.988
Temperature (°C)	Measurement Frequency (MHz)
20	5259.9880
30	5259.9884
40	5259.9884
Max. Deviation (MHz)	0.0120
Max. Deviation (ppm)	2.2814
0	0.0000
Temperature vs. Frequency Stability	0.0000
Maximum Deviation (MHz)	Measurement Frequency (MHz)
Maximum Deviation (ppm)	5500.0000

Test Mode	UNII-2C
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Voltage vs. Frequency Stability

Operating Frequency	5500
Voltage (V)	Measurement Frequency (MHz)
132	5.5000
120	5.5000
108	5.5000
Maximum Deviation (MHz)	5494.5000
Maximum Deviation (ppm)	999000.0023

Temperature vs. Frequency Stability

Operating Frequency	5499.9876
Temperature (°C)	Measurement Frequency (MHz)
40	5499.9880
Max. Deviation (MHz)	0.0124
Max. Deviation (ppm)	2.2545
0	0.0000
Temperature vs. Frequency Stability	0.0000
Temperature	Measurement Frequency (MHz)
(°C)	5745.0000
Maximum Deviation (MHz)	5744.9872
Maximum Deviation (ppm)	5744.9876

Test Mode	UNII-3
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Voltage vs. Frequency Stability

Operating Frequency	5745
Voltage (V)	Measurement Frequency (MHz)
132	5.7450
120	5.7450
108	5.7450
Maximum Deviation (MHz)	5739.2550
Maximum Deviation (ppm)	999000.0022

Temperature vs. Frequency Stability

Operating Frequency	0.0128
Temperature (°C)	Measurement Frequency (MHz)
Max. Deviation (ppm)	2.2280
0	0.0000
0	0.0000
0	0.0000
0	0.0000
0	0.0000
0	0.0000
Maximum Deviation (MHz)	0.0000
Maximum Deviation (ppm)	0.0000

APPENDIX I TRANSMIT POWER CONTROL (TPC)

CONTINUE ON NEXT PAGE

Test Mode	UNII-2A
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Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5260 to 5320	7.64	3.83	11.47	14.0281	NOTE (2)

Test Mode	UNII-2C
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Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5500 to 5700	7.74	4.73	12.47	17.6604	NOTE (2)

NOTE:

(1) EIRP Power (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

Power (mW) = $1 \text{ mW} * 10^{(\text{dBm} / 10)}$.

(2) A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

End of Test Report