

FCCRadio Test Report

FCC ID: E2K-APL260B3

This report concerns (check one): ☐ Original Grant ☒ Class II Change

Project No. : 1410101A

Equipment : Access Point

Model Name : APL26-0B3

Applicant : Dell Inc.

Address : One Dell Way Round Rock, Texas 78682 United

States

Date of Receipt : Oct. 20, 2014

Date of Test : Oct. 20, 2014 ~ Mar. 19, 2015

Issued Date : Mar. 20, 2015 Tested by : BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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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

Issued No.	Description	Issued Date
BTL-FCCP-2-1410101	Original Report	Nov. 21, 2014
BTL-FCCP-1-1410101A	Compared with the previous report(BTL-FCCP-2-1410101),the frequency bands:5250~5350&5470~5725 are added by applicant via software configuration control which other party cannot make modification. Only new frequency bands of test results are recorded on this report.	Mar. 20, 2015

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1. CERTIFICATION

Equipment : Access Point

Brand Name: DELL Model Name: APL26-0B3 Applicant : Dell Inc.

Date of Test : Oct. 20, 2014 ~ Mar. 19, 2015 Test Sample: ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.4: 2009 FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04.

The above equipment has been tested and found 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-1-1410101A) 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).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E			
Standard(s) Section FCC	Test Item Judgment		Remark
15.207	AC Power Line Conducted Emissions	N/A	Note(1)
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirements	PASS	
15.407(a)	Peak Excursion	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

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2.1TEST FACILITY

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

Radiated emission Test (Below 1 GHz):

CB08: FCC RN: 614388; FCC DN: TW1054

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: FCC RN: 614388; FCC DN: TW1054

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC rules and for reference only.

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

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Radiated emission test:

Test Site	Item	Measurement Frequency Range		Uncertainty	NOTE
			30 - 200MHz	3.35 dB	
		Horizontal	200 - 1000MHz	3.11 dB	
	Dodicted	Polarization	1 - 18GHz	3.97 dB	
CB08	Radiated emission at		18 - 40GHz	4.01 dB	
СВОО	3m		30 - 200MHz	3.22 dB	
	3111	VerticalPolarization	200 - 1000MHz	3.24 dB	
	Vertil	VerticalPolarization	1 - 18GHz	4.05 dB	
			18 - 40GHz	4.04 dB	

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

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

If U_{lab} is less than or equal to U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbancelimit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level, increased by(U_{lab} U_{CISPR}), exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by(U_{lab} U_{CISPR}), exceeds the disturbance limit.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Access Point			
Brand Name	DELL			
Model Name	APL26-0B3	APL26-0B3		
Mode Different	N/A			
	Operation Frequency	UNII-2A: 5250-5350MHz UNII-2C: 5470-5725MHz		
	Modulation Type	OFDM		
	Bit Rate of Transmitter	900Mbps/450+Mbps		
Product Description	Output Power (Max.)for UNII-2A	802.11a:18.86dBm 802.11n (20M): 19.10dBm 802.11n (40M): 19.25dBm		
	Output Power (Max.)for UNII-2C	802.11a:19.14dBm 802.11n (20M): 19.17dBm 802.11n (40M): 19.56dBm		
Power Source	Supplied from PoE.			
Power Rating	I/P: DC48-55V 0.6A			

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2. Channel List:

802.11a 802.11n 20MHz		802.11n 40MHz	
UNII-2A		UNII-2	A
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300		
64	5320		

802.11a 802.11n 20MHz		802.11n 40MHz	
UN	II-2C	UNII-2	С
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	134	5670
112	5560		
116	5580		
132	5660		
136	5680		
140	5700		

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3. Antenna Specification:

Ant.	Brand	Part NO.	Antenna Type	Connector	Gain (dBi)	Note
4	M •gear	C147-510905B	Dipole	Reversed TNC	5.89	TX/RX
5	M •gear	C147-510905B	Dipole	Reversed TNC	5.89	TX/RX
6	M •gear	C147-510905B	Dipole	Reversed TNC	5.89	TX/RX

Note: The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and receivers (3T3R) the EUT with CDD function, then, Direction gain = GANT+Array Gain, the Array gain=10log(NANT/NSS). that is Array gain=10log(3/1)=4.77, Directional gain=5.89+4.77=10.66. So the PSD of a mode Limit=11-10.66+6=6.34

4.

Operating Mode	
TX Mode	3TX
802.11a	V (ANT 4 + ANT 5+ANT 6)
802.11n(20MHz)	V (ANT 4 + ANT 5+ANT 6)
802.11n(40MHz)	V (ANT 4 + ANT 5+ANT 6)

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX A Mode/ CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N20 Mode/ CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N40 Mode/ CH54, CH62 (UNII-2A)
Mode 4	TX A Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 5	TX N20 Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 6	TX N40 Mode/CH102, CH110, CH134(UNII-2C)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX A Mode/ CH52, CH60, CH64 (UNII-2A)	
Mode 2	TX N20 Mode/ CH52, CH60, CH64 (UNII-2A)	
Mode 3	TX N40 Mode/ CH54, CH62 (UNII-2A)	
Mode 4	TX A Mode/ CH100, CH116, CH140 (UNII-2C)	
Mode 5	TX N20 Mode/ CH100, CH116, CH140 (UNII-2C)	
Mode 6	TX N40 Mode/CH102, CH110, CH134(UNII-2C)	

Note: For Radiated Below 1G test, the 802.11a mode is found to be the worst case and recorded.

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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product

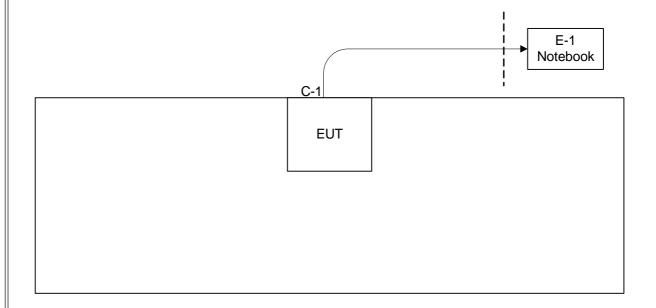
UNII-2A			
Test Software Version	Artgui		
Frequency (MHz)	5260	5300	5320
A Mode	15.5	15.5	14
N20 Mode	16	16	15.5
Frequency (MHz)	5270	5310	
N40 Mode	16.5	13	

UNII-2C				
Test Software Version		Artgui		
Frequency (MHz)	5500	5580	5700	
A Mode	14	11.5	14	
N20 Mode	15	12.5	15	
Frequency (MHz)	5510	5550	5670	
N40 Mode	13	10.5	12	

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	Notebook PC	DELL	PP18L	DOC	PF329 A01	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ-45 Cable

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4.EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
FREQUENCT (MINZ)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

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

4.1.2 TEST PROCEDURE

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

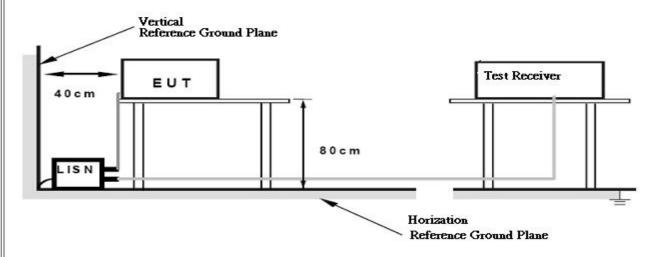
4.1.3 DEVIATIONFROMTESTSTANDARD

No deviation

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4.1.4 TESTSETUP



4.1.5 EUT OPERATING CONDITIONS

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

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

4.1.6 EUT TEST CONDITIONS

Temperature: N/A Relative Humidity: N/A Test Voltage: N/A

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz •

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5250-5350	-27	68.3
5470-5725	-27	68.3

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)

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4.2.2 TESTPROCEDURE

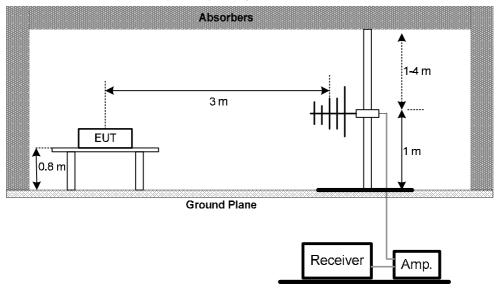
- a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 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. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATIONFROMTESTSTANDARD

No deviation

4.2.4 TESTSETUP

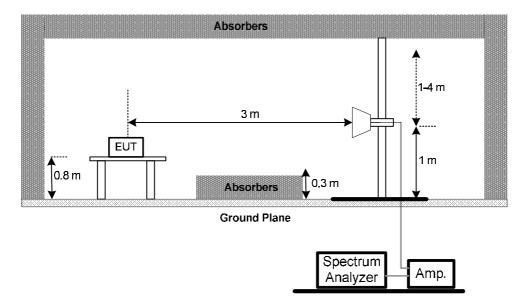
(A) Radiated Emission Test Set-Up Frequency30 - 1000MHz



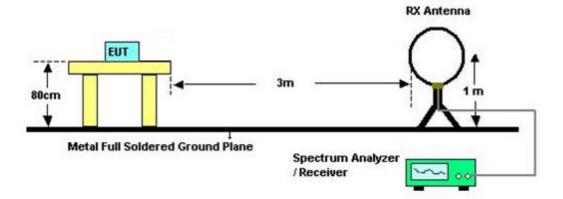
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(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 55% Test Voltage: DC 48V

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4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

- (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 (specific distance / test distance) (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS(BETWEEN30 TO 1000 MHz)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Modewith Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (3) Measuring frequency range from 30MHz to 1000MHz •
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

4.2.9 TEST RESULTS (ABOVE1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) Spectrum Setting: 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note』. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.
- (8) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5250-5350	PASS
Bandwidth 20 db Bandwidth =	5470-5725	PASS	

5.1.1TEST PROCEDURE

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

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz
VBW	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

C. Measured the spectrum width with power higher than 26dB below carrier

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 26°C Relative Humidity: 55% Test Voltage: DC 48V

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6.MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Conducted Output	250m/M (24dDm)	5250-5350	PASS
Power	250mW (24dBm)	5470-5725	PASS

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,

b.

Spectrum Parameter	Setting
Attenuation	Auto
0 5	Encompass the entire emissions bandwidth (EBW) ofthe
Span Frequency	signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

c. Test was performed in accordance with method of KDB 789033 D02.

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6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 OWEI WICKEI

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 26°CRelative Humidity: 45% Test Voltage: DC 48V

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7.ANTENNA CONDUCTED SPURIOUS EMISSION

7.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)	Result	
Antenna conducted	-27dBm/MHz	5250-5350	PASS	
Spurious Emission	-27 dBH/WH 12	5470-5725	PASS	

7.1.1TEST PROCEDURE

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

b.	Spectrum Parameter	Setting
	Attenuation	Auto
	RBW	1000kHz
	VBW	1000kHz
	Trace	Max Hold
	Sweep Time	Auto

7.1.2DEVIATION FROM STANDARD

No deviation.

7.1.3TEST SETUP



7.1.4EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5EUT TEST CONDITIONS

Temperature: 27°C Relative Humidity: 55% Test Voltage: DC 48V

7.1.6TEST RESULTS

Please refer to the Attachment G.

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8.POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)	Result	
Dower Spectral		5250-5350	PASS	
Power Spectral Density	11dBm/MHz	5470-5725	PASS	

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

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8.1.1 DEVIATION FROM STANDARD

No deviation.

8.1.2 TEST SETUP



8.1.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.4 EUT TEST CONDITIONS

Temperature: 25° CRelative Humidity: 55% Test Voltage: DC 48V

8.1.5 TEST RESULTS

Please refer to the Attachment H.

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9.FREQUENCY STABILITY MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)	Result	
Farance of Otal illin	Specifiedin the user's	5250-5350	PASS	
Frequency Stability	manual	5470-5725	PASS	

9.1.1 TEST PROCEDURE

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

	and the street of the street of				
b.	Spectrum Parameter	Setting			
	Attenuation	Auto			
	Span Frequency	Entire absence of modulation emissionsbandwidth			
	RBW	10 kHz			
	VBW	10kHz			
	Sweep Time	Auto			

c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

9.1.2DEVIATION FROM STANDARD

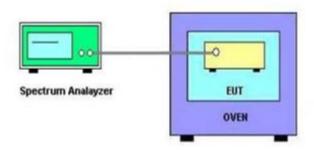
No deviation.

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d. User manual temperature is 0°C~50°C.



9.1.3 TEST SETUP



9.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

9.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 48V

9.1.6 TEST RESULTS

Please refer to the Attachment I.

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10.PEAK EXCURSION MEASUREMENT

10.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E				
Test Item Limit Frequency Range (MHz) Result				
Peak Excursion	13 dB	5250 - 5350	PASS	
Measurement	10 00	5470 - 5725	PASS	

10.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2014

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

All calibration period of Equipment List is One Year.

10.1.2 TEST PROCEDURE

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

the bloc	the block diagram below,				
b.	Spectrum Parameter	Setting			
	Attenuation	Auto			
	Snan Fraguancy	Encompass the entire emissions bandwidth (EBW)			
	Span Frequency	ofthe signal			
	RB	1000 kHz (Peak Trace) / 1000 kHz (Average Trace)			
	VB	3000kHz (Peak Trace) / 3000 kHz (Average Trace)			
	Detector	Peak (Peak Trace) / RMS (Average Trace)			
	Trace	Max Hold			
	Sweep Time	60s			

- c. Peak Trace: Set RBW = 1 MHz, VBW ≥ 3 MHz with peak detector and maxhold settings.
- d. AverageTrace: set RBW = 1 MHz, VBW = 3 MHz with RMS detector and trace average across 100 traces in power averaging mode.

10.1.3 DEVIATION FROM STANDARD

No deviation.

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10.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

10.1.6 EUT TEST CONDITIONS

Temperature: 25°CRelative Humidity: 55% Test Voltage: DC 48V

10.1.7 TEST RESULTS

Please refer to the Attachment J.

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11. MEASUREMENT INSTRUMENTS LIST

	Radiated Emission Measurement					
Item Kind of Equipment		Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 26, 2015	
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Jun. 12, 2015	
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 15, 2015	
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 12, 2015	
5	Microflex Cable	EMC	S104-SMA	8m	May. 14, 2015	
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 12, 2015	
7	Test Cable	LMR	LMR-400	12m	May. 13, 2015	
8	Test Cable	LMR	LMR-400	3m	May. 13, 2015	
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 17, 2015	
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	July. 9, 2015	

		Spectrum BandwidthMeasurement					
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
Ī	1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 26, 2015	

	Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 26, 2015	

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	Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 26, 2015	

	Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 26, 2015	

	Frequency Stability Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Oct. 26, 2015

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

All calibration period of equipment list is one year.

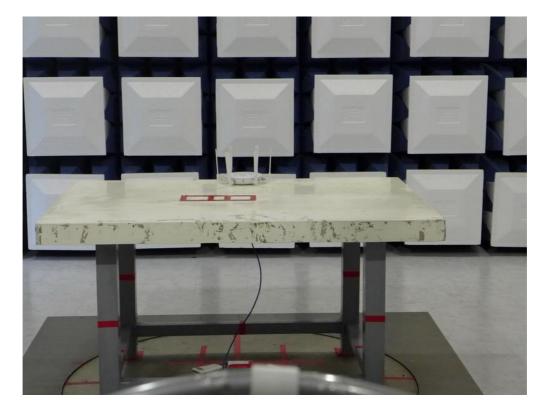
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12.EUT TEST PHOTOS

Radiated Measurement Photos

9KHz to 30MHz



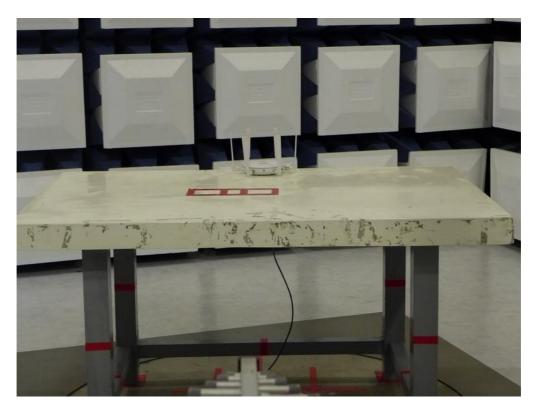


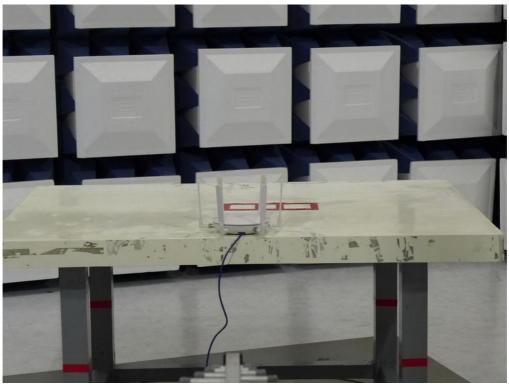
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Radiated Measurement Photos

30MHz to 1000MHz



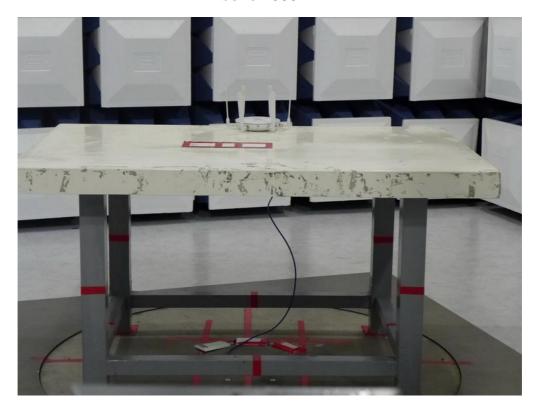


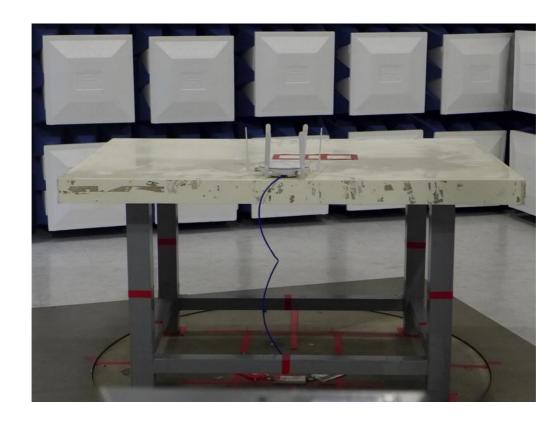
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Radiated Measurement Photos

Above 1000MHz





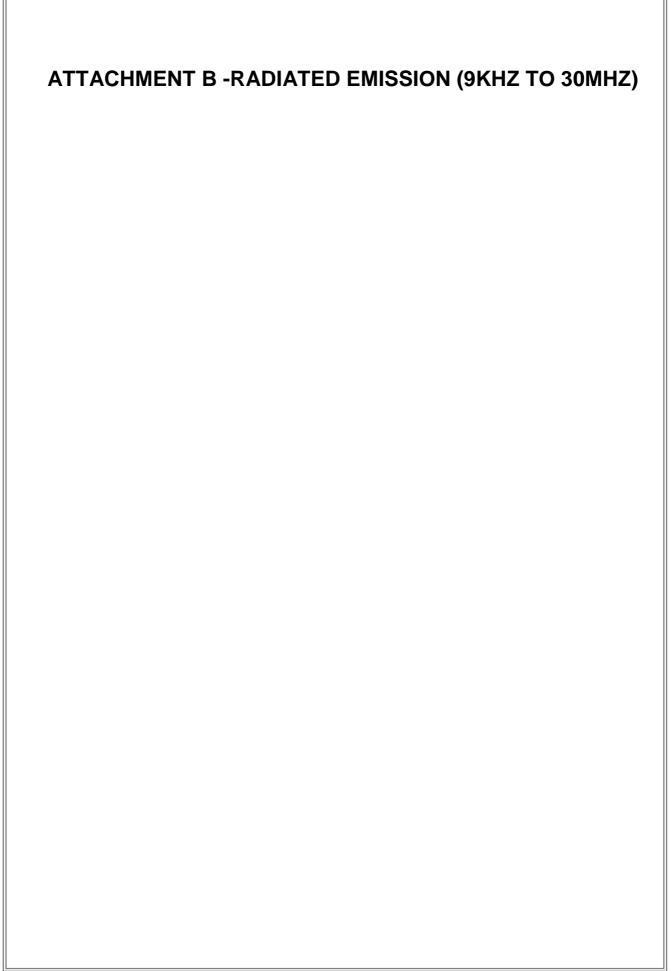
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ΑT	TACHMENT A -CONDUCTED EMISSION
	Test Mode: N/A
	Note: "N/A" denotes test is not applicable to this device.

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Test Mode: TX MODE

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
0.2488	0°	43.69	11.42	55.11	79.69	-24.58	AVG
0.2488	0°	52.44	11.42	63.86	99.69	-35.83	PK
0.2931	0°	40.51	11.14	51.65	78.26	-26.61	AVG
0.2931	0°	49.33	11.14	60.47	98.26	-37.79	PK
0.3950	0°	40.28	11.15	51.43	75.67	-24.24	AVG
0.3950	0°	52.69	11.15	63.84	95.67	-31.83	PK
0.4410	0°	42.39	11.18	53.57	74.72	-21.14	AVG
0.4410	0°	54.47	11.18	65.65	94.72	-29.06	PK
1.1700	0°	44.63	11.47	56.10	66.24	-10.14	QP
1.3300	0°	42.02	11.52	53.54	65.13	-11.59	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	11010
0.2488	90°	43.24	11.42	54.66	79.69	-25.03	AVG
0.2488	90°	53.88	11.42	65.30	99.69	-34.39	PK
0.2931	90°	40.36	11.14	51.50	78.26	-26.76	AVG
0.2931	90°	48.41	11.14	59.55	98.26	-38.71	PK
0.3950	90°	40.12	11.15	51.27	75.67	-24.40	AVG
0.3950	90°	53.29	11.15	64.44	95.67	-31.23	PK
0.4410	90°	40.28	11.18	51.46	74.72	-23.25	AVG
0.4410	90°	52.01	11.18	63.19	94.72	-31.52	PK
1.1700	90°	45.48	11.47	56.95	66.24	-9.29	QP
1.3300	90°	41.36	11.52	52.88	65.13	-12.25	QP

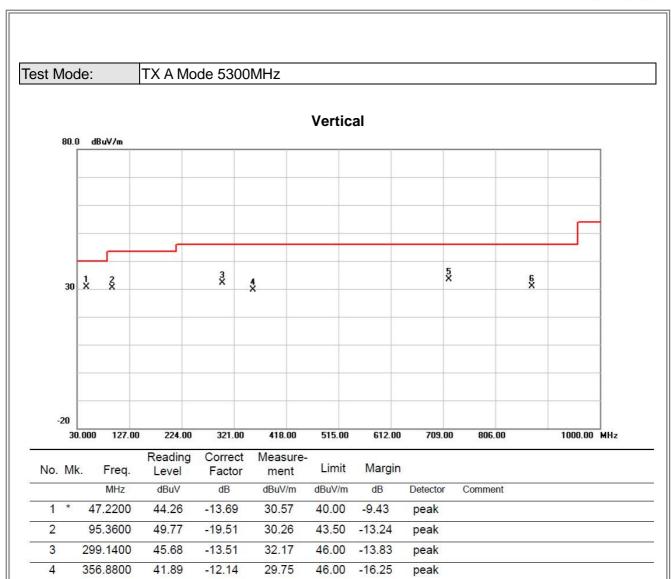
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ATTACHMENT C -RADIATED EMISSION (30MHZ TO 1000MHZ	Z)

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5

6

720.5500

874.3600

38.53

34.22

-5.25

-3.35

33.28

30.87

46.00

46.00

-12.72

-15.13

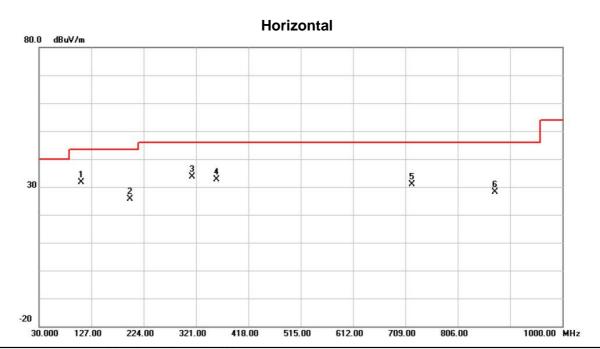
peak

peak

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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	108.2200	49.19	-17.59	31.60	43.50	-11.90	peak	
2		199.3500	42.33	-16.72	25.61	43.50	-17.89	peak	
3		314.4200	46.67	-13.09	33.58	46.00	-12.42	peak	
4	1	358.7700	44.75	-12.10	32.65	46.00	-13.35	peak	
5		721.1300	36.25	-5.25	31.00	46.00	-15.00	peak	
6		875.2600	31.58	-3.33	28.25	46.00	-17.75	peak	

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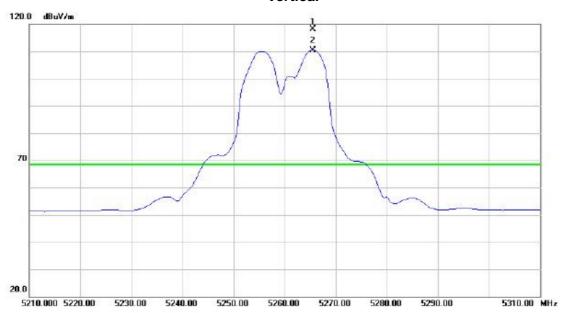
ATTACHMENT D -RADIATED EMISSION (ABOVE 1000MHZ)

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Test Mode: UNII-2A/ TX A Mode 5260MHz





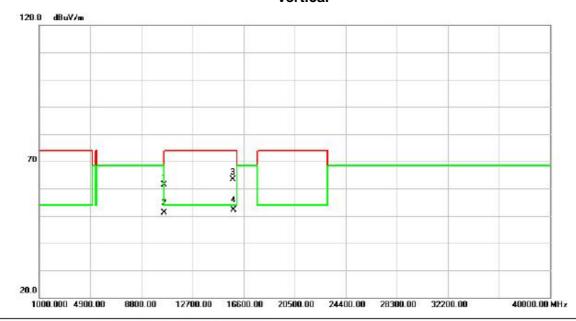
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	52	65.500	79.90	38.14	118.04	68.30	49.74	peak	No Limit	
2	X	52	65.500	72.25	38.14	110.39	68.30	42.09	AVG	No Limit	

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Orthogonal Axis: X
Test Mode: UNII-2A/ TX A Mode 5260MHz

Vertical



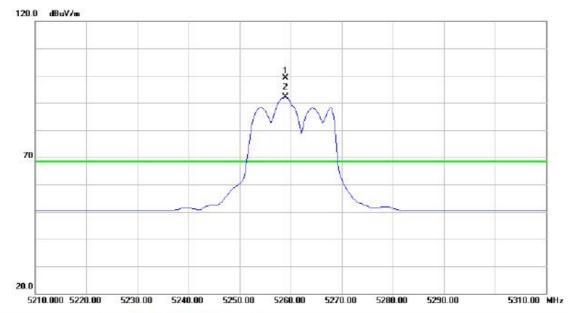
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10	518.78	42.88	18.49	61.37	68.30	-6.93	peak	
2		10	518.78	32.60	18.49	51.09	68.30	-17.21	AVG	
3		15	779.50	44.04	19.39	63.43	74.00	-10.57	peak	
4	*	15	779.50	32.86	19.39	52.25	54.00	-1.75	AVG	

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Test Mode: UNII-2A/ TX A Mode 5260MHz

Horizontal



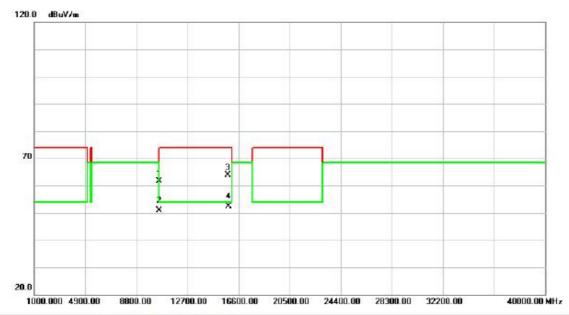
No.	M	k. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5259	.000	60.98	38.12	99.10	68.30	30.80	peak	No Limit	
2	X	5259	.000	54.11	38.12	92.23	68.30	23.93	AVG	No Limit	

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Test Mode: UNII-2A/ TX A Mode 5260MHz

Horizontal



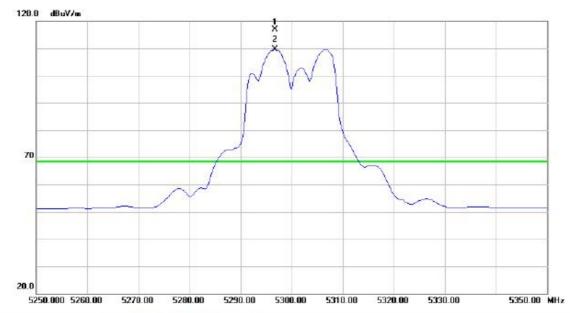
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	0520.75	43.14	18.50	61.64	68.30	-6.66	peak		
2		10	0520.75	32.31	18.50	50.81	68.30	-17.49	AVG		
3	V1-	15	5780.25	44.39	19.39	63.78	74.00	-10.22	peak		
4	*	15	5780.25	33.05	19.39	52.44	54.00	-1.56	AVG		

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Test Mode: UNII-2A/ TX A Mode 5300MHz

Vertical



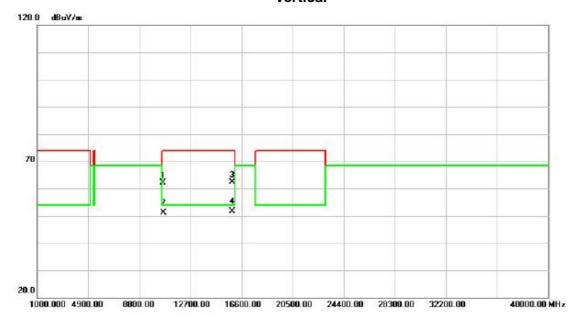
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	52	96.750	78.65	38.25	116.90	68.30	48.60	peak	No Limit	
2	X	52	96.750	71.29	38.25	109.54	68.30	41.24	AVG	No Limit	

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Orthogonal Axis: X
Test Mode: UNII-2A/ TX A Mode 5300MHz

Vertical



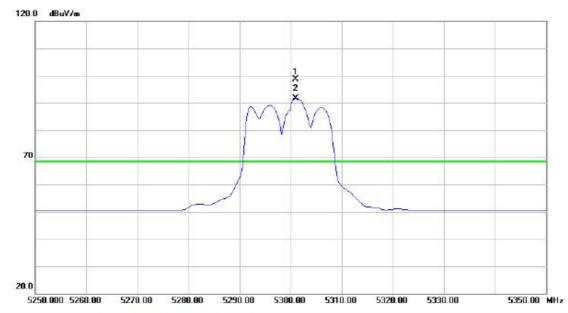
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	601.42	43.32	18.93	62.25	74.00	-11.75	peak		
2		10	0601.42	32.26	18.93	51.19	54.00	-2.81	AVG		
3		15	900.33	42.90	19.43	62.33	74.00	-11.67	peak		
4	*	15	900.33	32.12	19.43	51.55	54.00	-2.45	AVG		

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Test Mode: UNII-2A/ TX A Mode 5300MHz

Horizontal



No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	53	01.000	60.30	38.26	98.56	68.30	30.26	peak	No Limit	
2	X	53	01.000	53.34	38.26	91.60	68.30	23.30	AVG	No Limit	

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Test Mode: UNII-2A/ TX A Mode 5300MHz

Horizontal



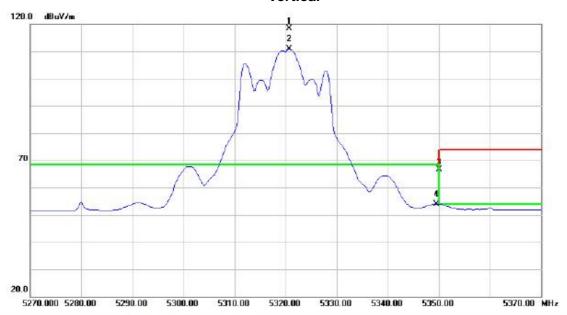
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	0599.28	42.97	18.92	61.89	68.30	-6.41	peak		
2		10	0599.28	31.97	18.92	50.89	68.30	-17.41	AVG		
3		15	5900.65	43.21	19.43	62.64	74.00	-11.36	peak		
4	*	15	5900.65	32.13	19.43	51.56	54.00	-2.44	AVG		

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Test Mode: UNII-2A/ TX A Mode 5320MHz

Vertical



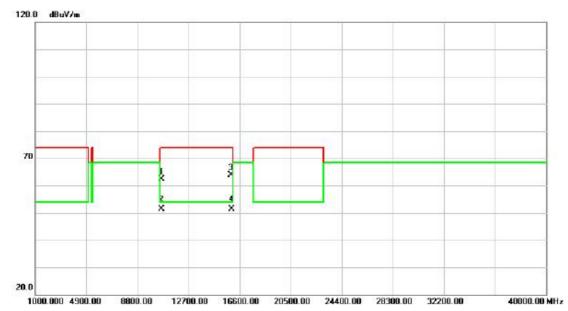
No.	Mi	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5320.750	80.10	38.32	118.42	68.30	50.12	peak	No Limit	
2	X	5320.750	72.45	38.32	110.77	68.30	42.47	AVG	No Limit	
3		5350.000	28.20	38.43	66.63	68.30	-1.67	peak		
4		5350.000	15.47	38.43	53.90	54.00	-0.10	AVG		

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Test Mode: UNII-2A/ TX A Mode 5320MHz

Vertical



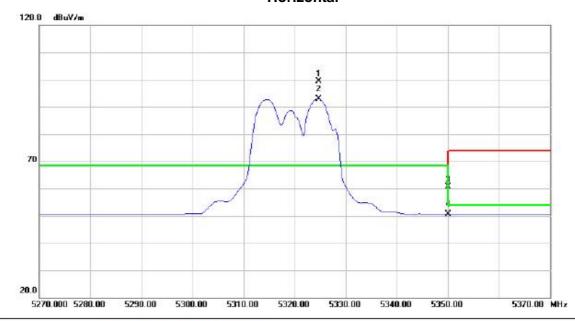
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	639.95	43.34	19.13	62.47	74.00	-11.53	peak		
2		10	639.95	32.20	19.13	51.33	54.00	-2.67	AVG		
3		15	960.22	44.54	19.45	63.99	74.00	-10.01	peak		
4	*	15	960.22	32.01	19.45	51.46	54.00	-2.54	AVG		

Report No.: BTL-FCCP-1-1410101A Page 53 of 233



Test Mode: UNII-2A/ TX A Mode 5320MHz

Horizontal



No.	Mi	(.	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	532	4.750	60.95	38.34	99.29	68.30	30.99	peak	No Limit	
2	X	532	4.750	54.59	38.34	92.93	68.30	24.63	AVG	No Limit	
3		535	0.000	22.30	38.43	60.73	68.30	-7.57	peak		
4		535	0.000	12.22	38.43	50.65	54.00	-3.35	AVG		

Report No.: BTL-FCCP-1-1410101A Page 54 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX A Mode 5320MHz

Horizontal



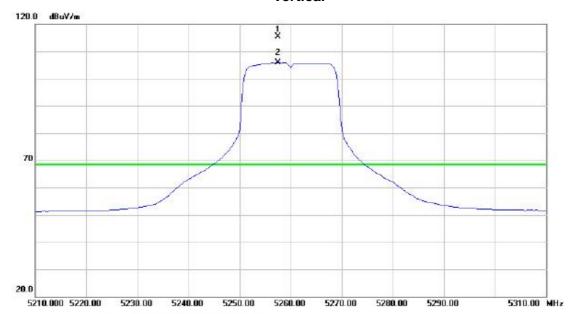
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	0638.80	42.95	19.13	62.08	74.00	-11.92	peak		
2		10	0638.80	31.92	19.13	51.05	54.00	-2.95	AVG		
3		15	5960.26	44.03	19.45	63.48	74.00	-10.52	peak		
4	*	15	5960.26	32.43	19.45	51.88	54.00	-2.12	AVG		

Report No.: BTL-FCCP-1-1410101A Page 55 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N20 Mode 5260MHz

Vertical



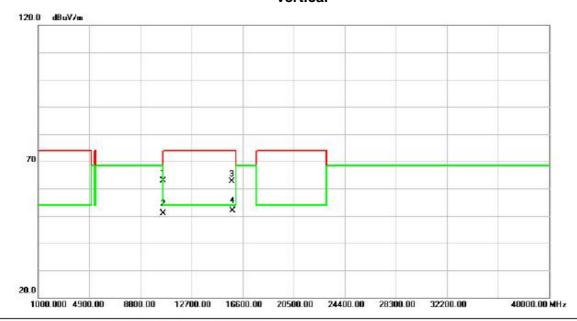
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	52	57.500	77.19	38.11	115.30	68.30	47.00	peak	No Limit	
2	X	52	57.500	67.88	38.11	105.99	68.30	37.69	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 56 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N20 Mode 5260MHz

Vertical



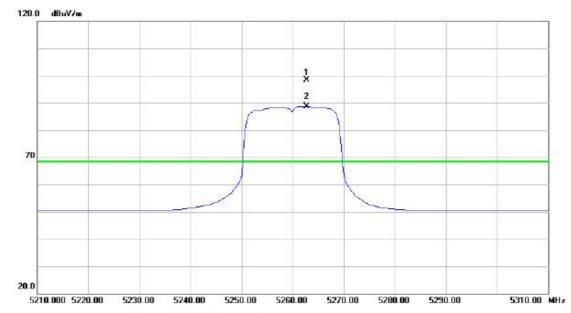
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	521.76	44.48	18.50	62.98	68.30	-5.32	peak		
2		10	521.76	32.47	18.50	50.97	68.30	-17.33	AVG		
3		15	780.36	43.28	19.39	62.67	74.00	-11.33	peak		
4	*	15	780.36	32.43	19.39	51.82	54.00	-2.18	AVG		

Report No.: BTL-FCCP-1-1410101A Page 57 of 233



Test Mode: UNII-2A/ TX N20 Mode 5260MHz

Horizontal



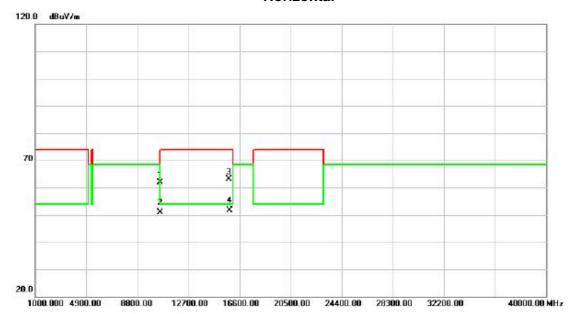
No.	lo. Mk.	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5262.750	60.20	38.13	98.33	68.30	30.03	peak	No Limit	
2	X	5262.750	50.49	38.13	88.62	68.30	20.32	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 58 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N20 Mode 5260MHz

Horizontal



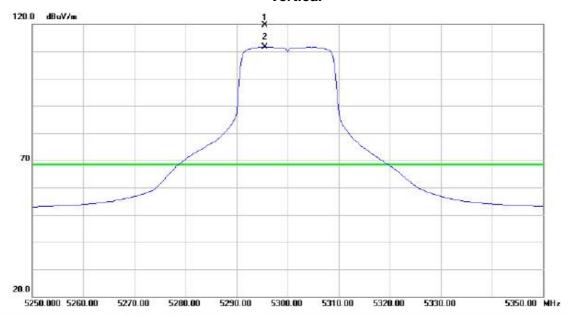
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	522.12	43.33	18.51	61.84	68.30	-6.46	peak		
2		10	522.12	32.35	18.51	50.86	68.30	-17.44	AVG		
3		15	780.41	43.73	19.39	63.12	74.00	-10.88	peak		
4	*	15	780.41	32.24	19.39	51.63	54.00	-2.37	AVG		

Report No.: BTL-FCCP-1-1410101A Page 59 of 233



Test Mode: UNII-2A/ TX A Mode 5300MHz

Vertical



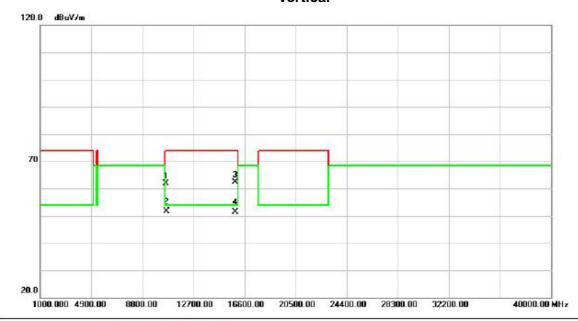
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	52	95.500	81.48	38.24	119.72	68.30	51.42	peak	No Limit	
2	X	52	95.500	73.37	38.24	111.61	68.30	43.31	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 60 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX A Mode 5300MHz

Vertical



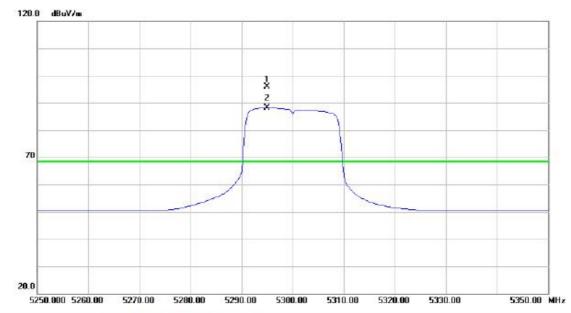
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	599.77	42.98	18.92	61.90	68.30	-6.40	peak		
2		10	599.77	32.64	18.92	51.56	68.30	-16.74	AVG		
3		15	902.35	43.04	19.43	62.47	74.00	-11.53	peak		
4	*	15	902.35	31.89	19.43	51.32	54.00	-2.68	AVG		

Report No.: BTL-FCCP-1-1410101A Page 61 of 233



Test Mode: UNII-2A/ TX A Mode 5300MHz

Horizontal



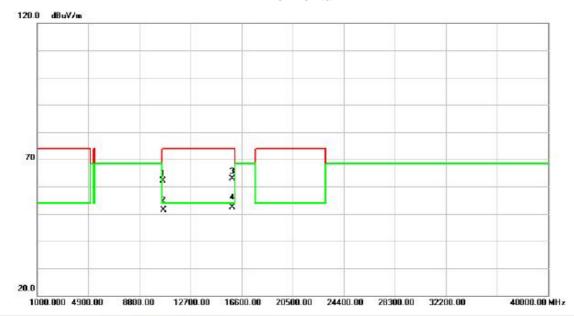
No.	lo. Mk.	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5295.000	57.55	38.24	95.79	68.30	27.49	peak	No Limit	
2	X	5295.000	49.97	38.24	88.21	68.30	19.91	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 62 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX A Mode 5300MHz

Horizontal



No.	Mk	k.	Freq.	Level	Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	599.75	43.14	18.92	62.06	68.30	-6.24	peak		
2		10	599.75	32.38	18.92	51.30	68.30	-17.00	AVG		
3		15	902.01	43.51	19.43	62.94	74.00	-11.06	peak		
4	*	15	902.01	32.83	19.43	52.26	54.00	-1.74	AVG		

Report No.: BTL-FCCP-1-1410101A Page 63 of 233



Orthogonal Axis: X Test Mode: UNII-2A/ TX N20 Mode 5320MHz

Vertical 120.0 dBuV/m 20.0 5270.000 5280.00 5370.00 MHz 5310.00 5320.00 5330.00 5340.00 5350.00

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5325.000	77.26	38.34	115.60	68.30	47.30	peak	No Limit	
2	X	5325.000	66.80	38.34	105.14	68.30	36.84	AVG	No Limit	
3		5360.000	23.25	38.46	61.71	74.00	-12.29	peak		
4		5360.000	14.66	38.46	53.12	54.00	-0.88	AVG		

5290.00

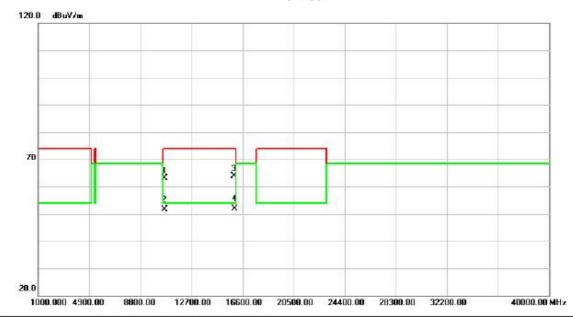
5300.00

Report No.: BTL-FCCP-1-1410101A Page 64 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N20 Mode 5320MHz

Vertical



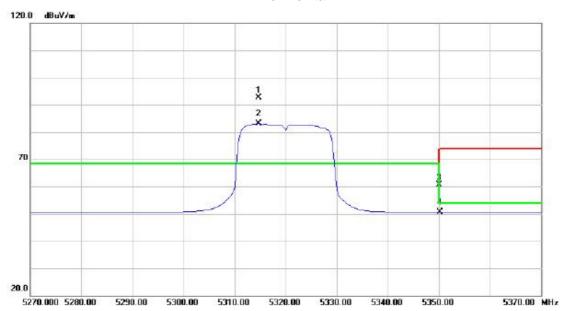
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	0640.12	43.94	19.13	63.07	74.00	-10.93	peak		
2		10	0640.12	32.38	19.13	51.51	54.00	-2.49	AVG		
3		15	961.55	44.51	19.44	63.95	74.00	-10.05	peak		
4	*	15	961.55	32.50	19.44	51.94	54.00	-2.06	AVG		

Report No.: BTL-FCCP-1-1410101A Page 65 of 233



Test Mode: UNII-2A/ TX N20 Mode 5320MHz

Horizontal



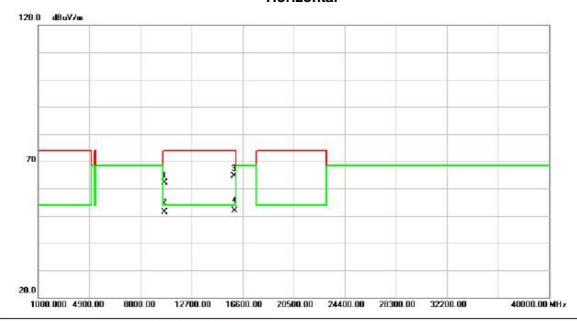
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5314.750	54.20	38.31	92.51	68.30	24.21	peak	No Limit	
2	X	5314.750	44.70	38.31	83.01	68.30	14.71	AVG	No Limit	
3		5350.000	22.30	38.43	60.73	68.30	-7.57	peak		
4		5350.000	12.12	38.43	50.55	54.00	-3.45	AVG		

Report No.: BTL-FCCP-1-1410101A Page 66 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N20 Mode 5320MHz

Horizontal



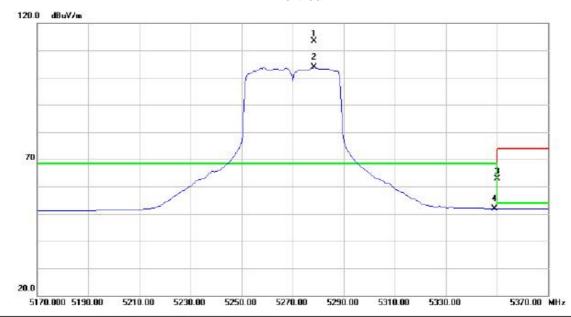
No.	Mi	k.	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10	639.00	43.12	19.13	62.25	74.00	-11.75	peak	
2		10	639.00	32.24	19.13	51.37	54.00	-2.63	AVG	
3	V1-	15	962.15	45.12	19.45	64.57	74.00	-9.43	peak	
4	*	15	962.15	32.51	19.45	51.96	54.00	-2.04	AVG	

Report No.: BTL-FCCP-1-1410101A Page 67 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N40 Mode 5270MHz

Vertical



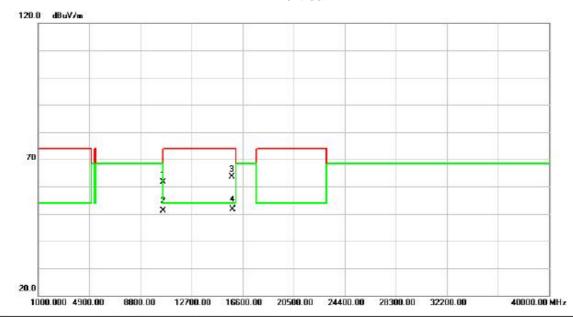
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5278.500	75.14	38.18	113.32	68.30	45.02	peak	No Limit	
2	X	5278.500	65.60	38.18	103.78	68.30	35.48	AVG	No Limit	
3		5350.000	24.50	38.43	62.93	68.30	-5.37	peak		
4		5350.000	13.34	38.43	51.77	54.00	-2.23	AVG		

Report No.: BTL-FCCP-1-1410101A Page 68 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N40 Mode 5270MHz

Vertical



No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	538.93	43.13	18.59	61.72	68.30	-6.58	peak		
2		10	538.93	32.53	18.59	51.12	68.30	-17.18	AVG		
3		15	809.67	44.23	19.40	63.63	74.00	-10.37	peak		
4	*	15	809.67	32.20	19.40	51.60	54.00	-2.40	AVG		

Report No.: BTL-FCCP-1-1410101A Page 69 of 233



Test Mode: UNII-2A/ TX N40 Mode 5270MHz

Horizontal



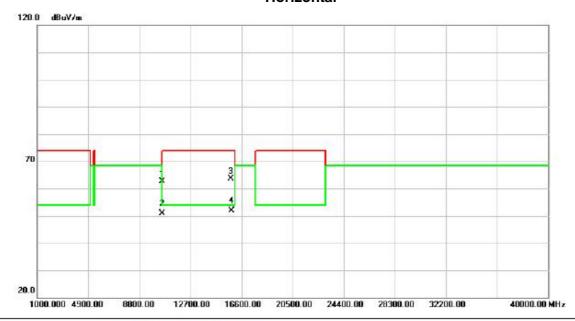
No.	Mk	. Fr	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		M	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5258.5	500	53.56	38.11	91.67	68.30	23.37	peak	No Limit	
2	X	5258.5	500	44.59	38.11	82.70	68.30	14.40	AVG	No Limit	
3		5350.0	000	23.30	38.43	61.73	68.30	-6.57	peak		
4		5350.0	000	12.12	38.43	50.55	54.00	-3.45	AVG		

Report No.: BTL-FCCP-1-1410101A Page 70 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N40 Mode 5270MHz

Horizontal



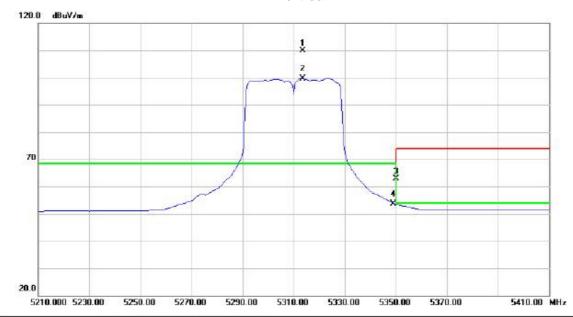
No.	Mk	. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10539.33	44.12	18.60	62.72	68.30	-5.58	peak		
2		10539.33	32.40	18.60	51.00	68.30	-17.30	AVG		
3		15810.07	44.27	19.40	63.67	74.00	-10.33	peak		
4	*	15810.07	32.47	19.40	51.87	54.00	-2.13	AVG		

Report No.: BTL-FCCP-1-1410101A Page 71 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N40 Mode 5310MHz

Vertical



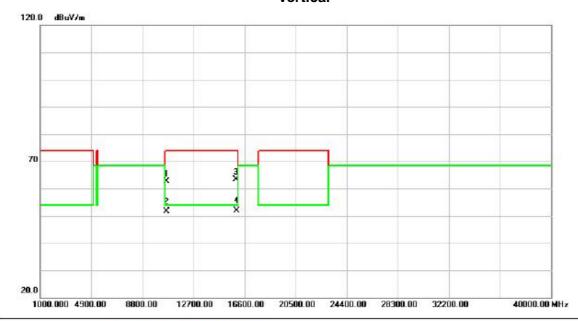
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5313.500	71.61	38.31	109.92	68.30	41.62	peak	No Limit	
2	X	5313.500	61.43	38.31	99.74	68.30	31.44	AVG	No Limit	
3		5350.000	24.50	38.43	62.93	68.30	-5.37	peak		
4		5350.000	15.12	38.43	53.55	54.00	-0.45	AVG		

Report No.: BTL-FCCP-1-1410101A Page 72 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N40 Mode 5310MHz

Vertical



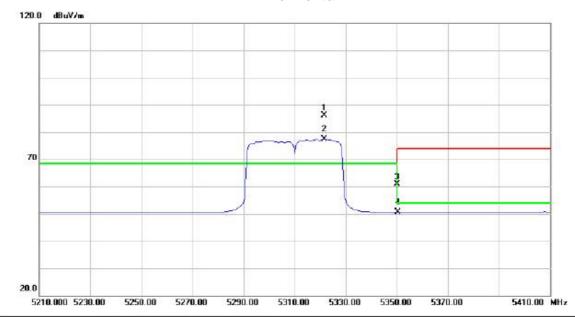
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	620.07	43.49	19.03	62.52	74.00	-11.48	peak		
2		10	0620.07	32.48	19.03	51.51	54.00	-2.49	AVG		
3		15	931.98	43.91	19.44	63.35	74.00	-10.65	peak		
4	*	15	931.98	32.40	19.44	51.84	54.00	-2.16	AVG		

Report No.: BTL-FCCP-1-1410101A Page 73 of 233



Test Mode: UNII-2A/ TX N40 Mode 5310MHz

Horizontal



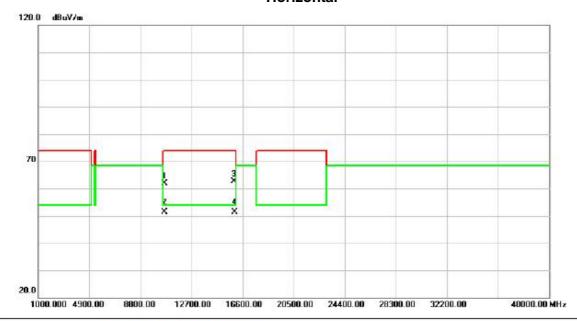
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5321.500	47.90	38.34	86.24	68.30	17.94	peak	No Limit	
2	X	5321.500	39.10	38.34	77.44	68.30	9.14	AVG	No Limit	
3		5350.000	22.35	38.43	60.78	68.30	-7.52	peak		
4		5350.000	12.11	38.43	50.54	54.00	-3.46	AVG		

Report No.: BTL-FCCP-1-1410101A Page 74 of 233



Orthogonal Axis: X
Test Mode: UNII-2A/ TX N40 Mode 5310MHz

Horizontal



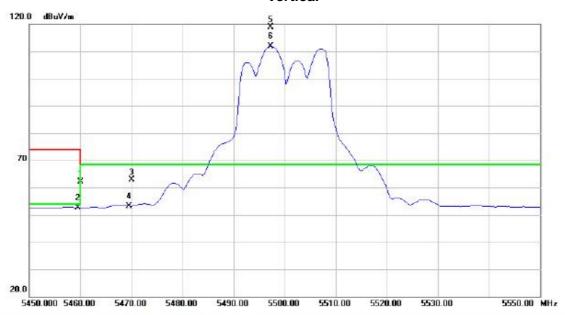
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	0621.46	42.75	19.03	61.78	74.00	-12.22	peak		
2	*	10	0621.46	32.38	19.03	51.41	54.00	-2.59	AVG		
3		15	5931.35	43.18	19.44	62.62	74.00	-11.38	peak		
4		15	5931.35	31.90	19.44	51.34	54.00	-2.66	AVG		

Report No.: BTL-FCCP-1-1410101A Page 75 of 233



Test Mode: UNII-2C/ TX A Mode 5500MHz

Vertical



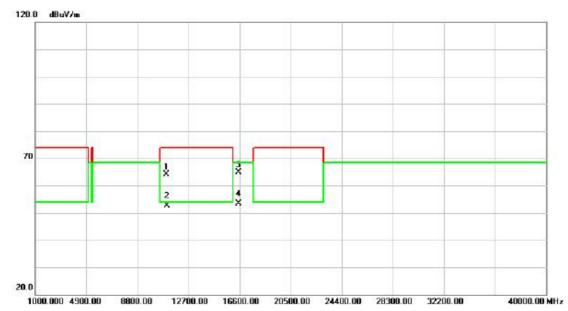
Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	5460.000	23.27	38.81	62.08	68.30	-6.22	peak	
	5460.000	13.81	38.81	52.62	54.00	-1.38	AVG	
	5470.000	24.15	38.84	62.99	68.30	-5.31	peak	
	5470.000	14.36	38.84	53.20	68.30	-15.10	AVG	
*	5497.250	79.88	38.94	118.82	68.30	50.52	peak	No Limit
X	5497.250	72.82	38.94	111.76	68.30	43.46	AVG	No Limit
	*	MHz 5460.000 5460.000 5470.000	Mk. Freq. Level MHz dBuV 5460.000 23.27 5460.000 13.81 5470.000 24.15 5470.000 14.36 * 5497.250 79.88	Mk. Freq. Level Factor MHz dBuV dB 5460.000 23.27 38.81 5460.000 13.81 38.81 5470.000 24.15 38.84 5470.000 14.36 38.84 * 5497.250 79.88 38.94	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 5460.000 23.27 38.81 62.08 5460.000 13.81 38.81 52.62 5470.000 24.15 38.84 62.99 5470.000 14.36 38.84 53.20 * 5497.250 79.88 38.94 118.82	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 5460.000 23.27 38.81 62.08 68.30 5460.000 13.81 38.81 52.62 54.00 5470.000 24.15 38.84 62.99 68.30 5470.000 14.36 38.84 53.20 68.30 * 5497.250 79.88 38.94 118.82 68.30	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dBuV/m dBuV/m dB 5460.000 23.27 38.81 62.08 68.30 -6.22 5460.000 13.81 38.81 52.62 54.00 -1.38 5470.000 24.15 38.84 62.99 68.30 -5.31 5470.000 14.36 38.84 53.20 68.30 -15.10 * 5497.250 79.88 38.94 118.82 68.30 50.52	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dBuV/m dB Detector 5460.000 23.27 38.81 62.08 68.30 -6.22 peak 5460.000 13.81 38.81 52.62 54.00 -1.38 AVG 5470.000 24.15 38.84 62.99 68.30 -5.31 peak 5470.000 14.36 38.84 53.20 68.30 -15.10 AVG * 5497.250 79.88 38.94 118.82 68.30 50.52 peak

Report No.: BTL-FCCP-1-1410101A Page 76 of 233



Test Mode: UNII-2C/ TX A Mode 5500MHz

Vertical



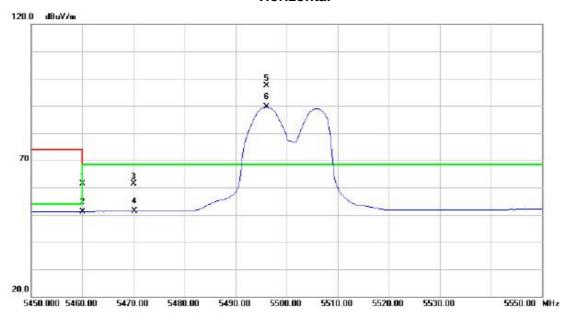
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	999.78	43.17	21.05	64.22	74.00	-9.78	peak		
2	*	10	999.78	31.62	21.05	52.67	54.00	-1.33	AVG		
3		16	499.76	44.78	20.05	64.83	68.30	-3.47	peak		
4		16	499.76	33.44	20.05	53.49	68.30	-14.81	AVG		

Report No.: BTL-FCCP-1-1410101A Page 77 of 233



Test Mode: UNII-2C/ TX A Mode 5500MHz

Horizontal



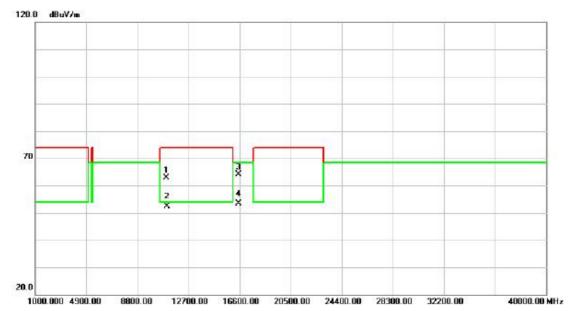
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5460.000	22.53	38.81	61.34	68.30	-6.96	peak	
2		5460.000	12.41	38.81	51.22	54.00	-2.78	AVG	
3		5470.000	22.58	38.84	61.42	68.30	-6.88	peak	
4		5470.000	12.45	38.84	51.29	68.30	-17.01	AVG	
5	*	5496.000	58.33	38.94	97.27	68.30	28.97	peak	No Limit
6	X	5496.000	50.59	38.94	89.53	68.30	21.23	AVG	No Limit

Report No.: BTL-FCCP-1-1410101A Page 78 of 233



Test Mode: UNII-2C/ TX A Mode 5500MHz

Horizontal



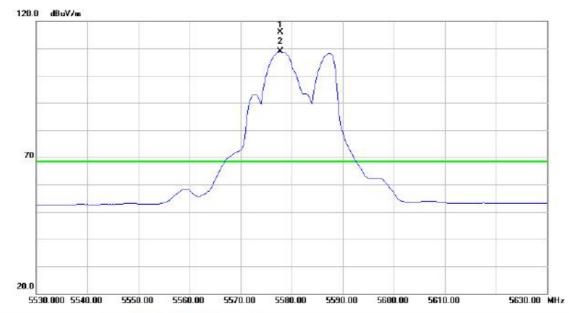
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	001.13	41.79	21.05	62.84	74.00	-11.16	peak		
2	*	11	001.13	31.36	21.05	52.41	54.00	-1.59	AVG		
3		16	500.42	44.15	20.05	64.20	68.30	-4.10	peak		
4		16	500.42	33.42	20.05	53.47	68.30	-14.83	AVG		

Report No.: BTL-FCCP-1-1410101A Page 79 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX A Mode 5580MHz

Vertical



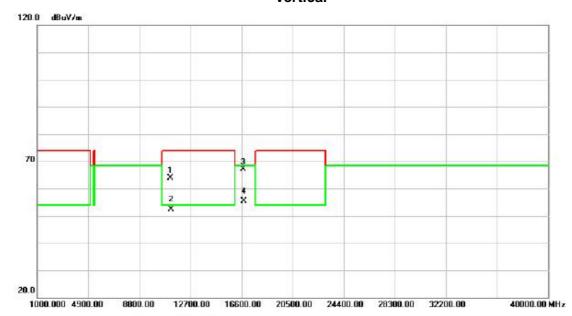
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	55	77.750	76.79	39.12	115.91	68.30	47.61	peak	No Limit	
2	X	55	77.750	69.67	39.12	108.79	68.30	40.49	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 80 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX A Mode 5580MHz

Vertical



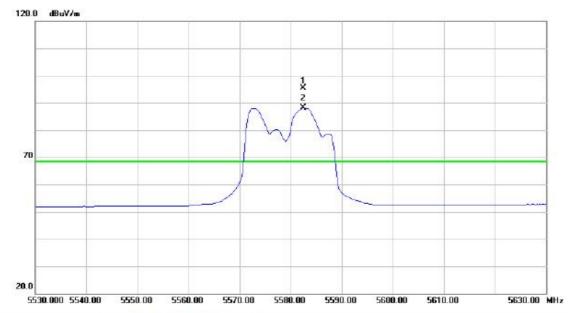
No.	Mk	. Fr	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		M	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11158	.38	42.94	20.83	63.77	74.00	-10.23	peak		
2		11158	.38	31.53	20.83	52.36	54.00	-1.64	AVG		
3	*	16741	.18	44.59	22.55	67.14	68.30	-1.16	peak		
4		16741	.18	32.77	22.55	55.32	68.30	-12.98	AVG		

Report No.: BTL-FCCP-1-1410101A Page 81 of 233



Test Mode: UNII-2C/ TX A Mode 5580MHz

Horizontal



No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5582.500	56.29	39.14	95.43	68.30	27.13	peak	No Limit	
2	X	5582.500	48.90	39.14	88.04	68.30	19.74	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 82 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX A Mode 5580MHz

Horizontal



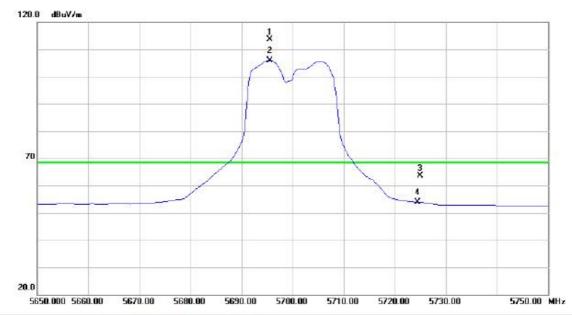
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	1157.60	42.71	20.83	63.54	74.00	-10.46	peak		
2	*	11	1157.60	31.71	20.83	52.54	54.00	-1.46	AVG		
3		16	6740.48	42.77	22.54	65.31	68.30	-2.99	peak		
4		16	6740.48	32.66	22.54	55.20	68.30	-13.10	AVG		

Report No.: BTL-FCCP-1-1410101A Page 83 of 233



Test Mode: UNII-2C/ TX A Mode 5700MHz

Vertical



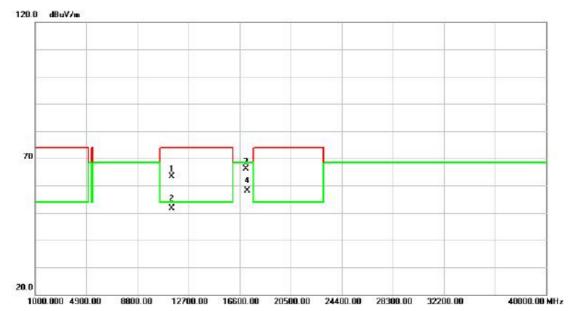
Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
*	5695.500	74.14	39.39	113.53	68.30	45.23	peak	No Limit	
X	5695.500	66.59	39.39	105.98	68.30	37.68	AVG	No Limit	
	5725.000	24.30	39.45	63.75	68.30	-4.55	peak		
	5725.000	14.40	39.45	53.85	68.30	-14.45	AVG		
	*	MHz * 5695.500 X 5695.500 5725.000	Mk. Freq. Level MHz dBuV * 5695.500 74.14 X 5695.500 66.59 5725.000 24.30	Mk. Freq. Level Factor MHz dBuV dB * 5695.500 74.14 39.39 X 5695.500 66.59 39.39 5725.000 24.30 39.45	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 5695.500 74.14 39.39 113.53 X 5695.500 66.59 39.39 105.98 5725.000 24.30 39.45 63.75	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m * 5695.500 74.14 39.39 113.53 68.30 X 5695.500 66.59 39.39 105.98 68.30 5725.000 24.30 39.45 63.75 68.30	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dBuV/m dB * 5695.500 74.14 39.39 113.53 68.30 45.23 X 5695.500 66.59 39.39 105.98 68.30 37.68 5725.000 24.30 39.45 63.75 68.30 -4.55	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dBuV/m dB Detector * 5695.500 74.14 39.39 113.53 68.30 45.23 peak X 5695.500 66.59 39.39 105.98 68.30 37.68 AVG 5725.000 24.30 39.45 63.75 68.30 -4.55 peak	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dB uV/m dB Detector Comment * 5695.500 74.14 39.39 113.53 68.30 45.23 peak No Limit X 5695.500 66.59 39.39 105.98 68.30 37.68 AVG No Limit 5725.000 24.30 39.45 63.75 68.30 -4.55 peak

Report No.: BTL-FCCP-1-1410101A Page 84 of 233



Test Mode: UNII-2C/ TX A Mode 5700MHz

Vertical



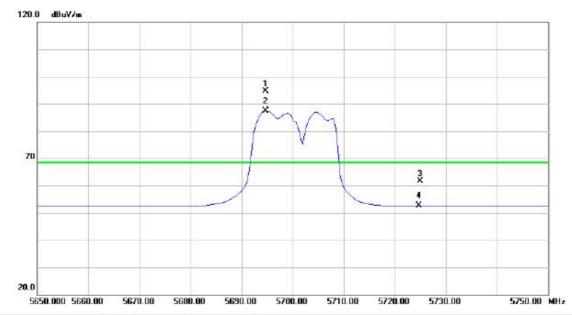
No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11402.25	42.87	20.47	63.34	74.00	-10.66	peak		
2		11402.25	31.24	20.47	51.71	54.00	-2.29	AVG		
3	*	17098.85	40.88	25.31	66.19	68.30	-2.11	peak		
4		17098.85	32.80	25.31	58.11	68.30	-10.19	AVG		

Report No.: BTL-FCCP-1-1410101A Page 85 of 233



Test Mode: UNII-2C/ TX A Mode 5700MHz

Horizontal



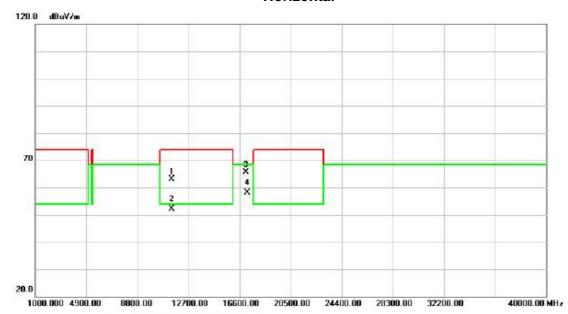
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5694.750	55.24	39.39	94.63	68.30	26.33	peak	No Limit	
2	X	5694.750	48.09	39.39	87.48	68.30	19.18	AVG	No Limit	
3		5725.000	22.23	39.45	61.68	68.30	-6.62	peak		
4		5725.000	13.06	39.45	52.51	68.30	-15.79	AVG		

Report No.: BTL-FCCP-1-1410101A Page 86 of 233



Test Mode: UNII-2C/ TX A Mode 5700MHz

Horizontal



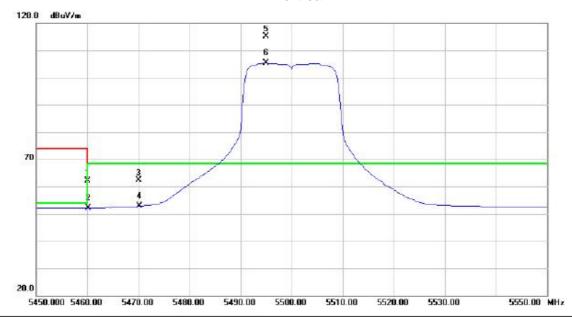
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	400.72	42.58	20.47	63.05	74.00	-10.95	peak		
2	*	11	400.72	31.55	20.47	52.02	54.00	-1.98	AVG		
3		17	098.12	40.35	25.31	65.66	68.30	-2.64	peak		
4		17	098.12	32.78	25.31	58.09	68.30	-10.21	AVG		

Report No.: BTL-FCCP-1-1410101A Page 87 of 233



Test Mode: UNII-2C/ TX N20 Mode 5500MHz

Vertical



No.	Mi	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5460.000	23.20	38.81	62.01	68.30	-6.29	peak	
2		5460.000	13.34	38.81	52.15	54.00	-1.85	AVG	
3		5470.000	23.60	38.84	62.44	68.30	-5.86	peak	
4		5470.000	13.94	38.84	52.78	68.30	-15.52	AVG	
5	*	5495.000	76.20	38.93	115.13	68.30	46.83	peak	No Limit
6	X	5495.000	66.49	38.93	105.42	68.30	37.12	AVG	No Limit

Report No.: BTL-FCCP-1-1410101A Page 88 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX N20 Mode 5500MHz

Vertical



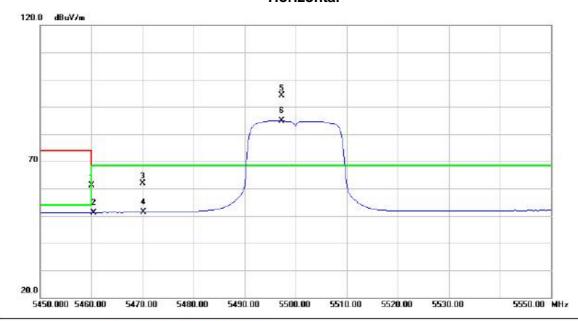
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		10	998.65	41.85	21.05	62.90	74.00	-11.10	peak		
2	*	10	998.65	31.36	21.05	52.41	54.00	-1.59	AVG		
3		16	5501.90	43.48	20.07	63.55	68.30	-4.75	peak		
4		16	501.90	33.42	20.07	53.49	68.30	-14.81	AVG		

Report No.: BTL-FCCP-1-1410101A Page 89 of 233



Test Mode: UNII-2C/ TX N20 Mode 5500MHz

Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5460.000	22.43	38.81	61.24	68.30	-7.06	peak	
2		5460.000	12.39	38.81	51.20	54.00	-2.80	AVG	
3		5470.000	22.93	38.84	61.77	68.30	-6.53	peak	
4		5470.000	12.45	38.84	51.29	68.30	-17.01	AVG	
5	*	5497.250	55.29	38.94	94.23	68.30	25.93	peak	No Limit
6	X	5497.250	45.91	38.94	84.85	68.30	16.55	AVG	No Limit

Report No.: BTL-FCCP-1-1410101A Page 90 of 233



Test Mode: UNII-2C/ TX N20 Mode 5500MHz

Horizontal



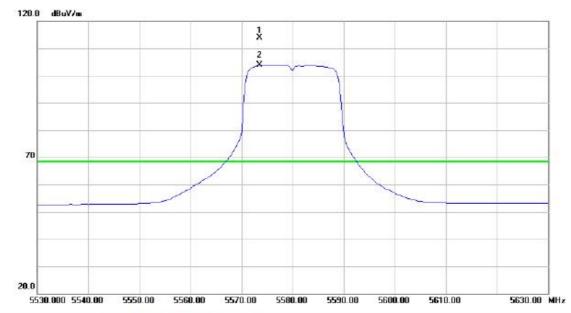
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10	999.93	41.37	21.05	62.42	74.00	-11.58	peak	
2	*	10	999.93	31.34	21.05	52.39	54.00	-1.61	AVG	
3		16	500.07	44.06	20.05	64.11	68.30	-4.19	peak	
4		16	500.07	33.38	20.05	53.43	68.30	-14.87	AVG	

Report No.: BTL-FCCP-1-1410101A Page 91 of 233



Test Mode: UNII-2C/ TX N20 Mode 5580MHz

Vertical



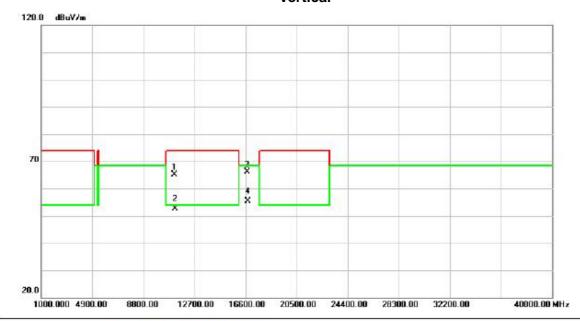
No.	M	k. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5573	.500	74.80	39.11	113.91	68.30	45.61	peak	No Limit	
2	X	5573	.500	64.75	39.11	103.86	68.30	35.56	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 92 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX N20 Mode 5580MHz

Vertical



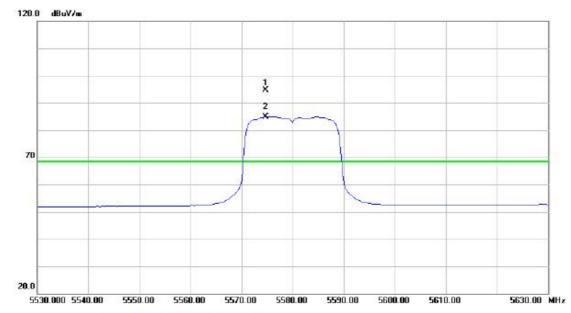
No.	Mk	۲.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	158.77	44.31	20.82	65.13	74.00	-8.87	peak		
2	*	11	158.77	31.75	20.82	52.57	54.00	-1.43	AVG		
3		16	741.26	43.69	22.55	66.24	68.30	-2.06	peak		
4		16	741.26	32.82	22.55	55.37	68.30	-12.93	AVG		

Report No.: BTL-FCCP-1-1410101A Page 93 of 233



Test Mode: UNII-2C/ TX N20 Mode 5580MHz

Horizontal



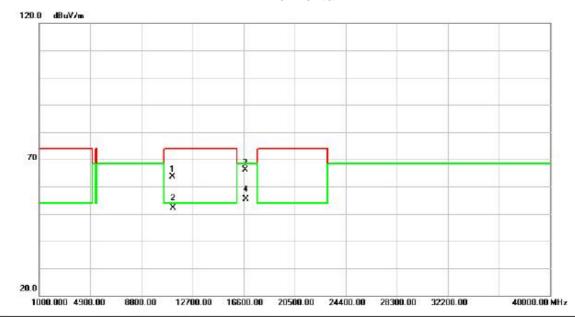
No.	М	K	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5574	4.750	55.63	39.11	94.74	68.30	26.44	peak	No Limit	
2	X	5574	4.750	45.88	39.11	84.99	68.30	16.69	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 94 of 233



Test Mode: UNII-2C/ TX N20 Mode 5580MHz

Horizontal



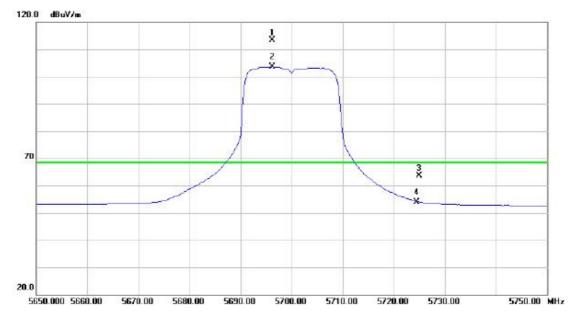
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	1157.77	42.92	20.83	63.75	74.00	-10.25	peak		
2	*	11	1157.77	31.20	20.83	52.03	54.00	-1.97	AVG		
3		16	6739.73	43.70	22.54	66.24	68.30	-2.06	peak		
4		16	6739.73	32.78	22.54	55.32	68.30	-12.98	AVG		

Report No.: BTL-FCCP-1-1410101A Page 95 of 233



Test Mode: UNII-2C/ TX N20 Mode 5700MHz

Vertical



Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
*	5696.250	74.10	39.39	113.49	68.30	45.19	peak	No Limit	
X	5696.250	64.13	39.39	103.52	68.30	35.22	AVG	No Limit	
	5725.000	24.20	39.45	63.65	68.30	-4.65	peak		
	5725.000	14.55	39.45	54.00	68.30	-14.30	AVG		
	* X	MHz * 5696.250 X 5696.250 5725.000	Mk. Freq. Level MHz dBuV * 5696.250 74.10 X 5696.250 64.13 5725.000 24.20	Mk. Freq. Level Factor MHz dBuV dB * 5696.250 74.10 39.39 X 5696.250 64.13 39.39 5725.000 24.20 39.45	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 5696.250 74.10 39.39 113.49 X 5696.250 64.13 39.39 103.52 5725.000 24.20 39.45 63.65	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m * 5696.250 74.10 39.39 113.49 68.30 X 5696.250 64.13 39.39 103.52 68.30 5725.000 24.20 39.45 63.65 68.30	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dBuV/m dB * 5696.250 74.10 39.39 113.49 68.30 45.19 X 5696.250 64.13 39.39 103.52 68.30 35.22 5725.000 24.20 39.45 63.65 68.30 -4.65	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dBuV/m dB Detector * 5696.250 74.10 39.39 113.49 68.30 45.19 peak X 5696.250 64.13 39.39 103.52 68.30 35.22 AVG 5725.000 24.20 39.45 63.65 68.30 -4.65 peak	Mk. Freq. Level Factor ment Limit Margin MHz dBuV dB dBuV/m dB Detector Comment * 5696.250 74.10 39.39 113.49 68.30 45.19 peak No Limit X 5696.250 64.13 39.39 103.52 68.30 35.22 AVG No Limit 5725.000 24.20 39.45 63.65 68.30 -4.65 peak

Report No.: BTL-FCCP-1-1410101A Page 96 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX N20 Mode 5700MHz

Vertical



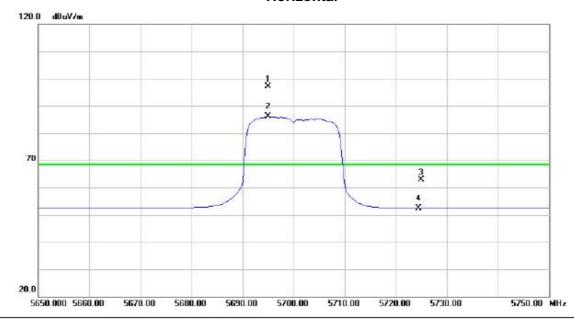
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	1402.10	42.14	20.47	62.61	74.00	-11.39	peak		
2	*	11	1402.10	31.75	20.47	52.22	54.00	-1.78	AVG		
3		17	7099.38	40.30	25.31	65.61	68.30	-2.69	peak		
4		17	7099.38	32.62	25.31	57.93	68.30	-10.37	AVG		

Report No.: BTL-FCCP-1-1410101A Page 97 of 233



Test Mode: UNII-2C/ TX N20 Mode 5700MHz

Horizontal



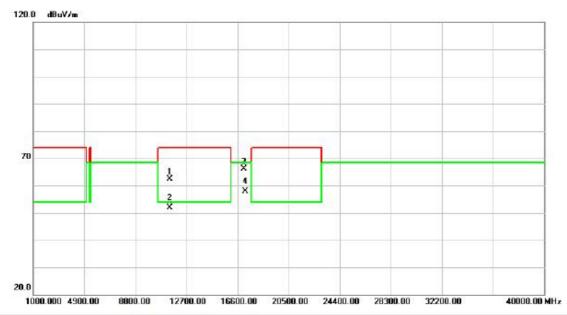
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5695.000	57.80	39.39	97.19	68.30	28.89	peak	No Limit	
2	X	5695.000	46.65	39.39	86.04	68.30	17.74	AVG	No Limit	
3		5725.000	23.50	39.45	62.95	68.30	-5.35	peak		
4		5725.000	13.02	39.45	52.47	68.30	-15.83	AVG		

Report No.: BTL-FCCP-1-1410101A Page 98 of 233



Test Mode: UNII-2C/ TX N20 Mode 5700MHz

Horizontal



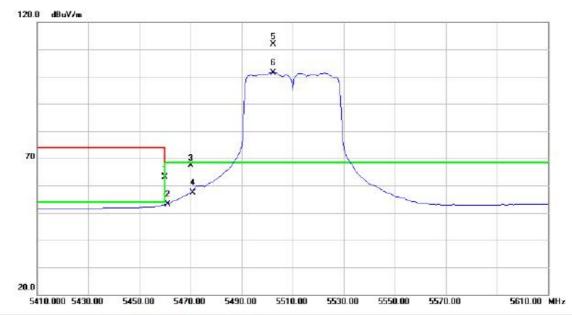
No.	M	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	1402.11	42.02	20.47	62.49	74.00	-11.51	peak		
2	*	11	1402.11	31.44	20.47	51.91	54.00	-2.09	AVG		
3		17	7099.68	40.86	25.31	66.17	68.30	-2.13	peak		
4		17	7099.68	32.62	25.31	57.93	68.30	-10.37	AVG		

Report No.: BTL-FCCP-1-1410101A Page 99 of 233



Test Mode: UNII-2C/ TX N40 Mode 5510MHz

Vertical



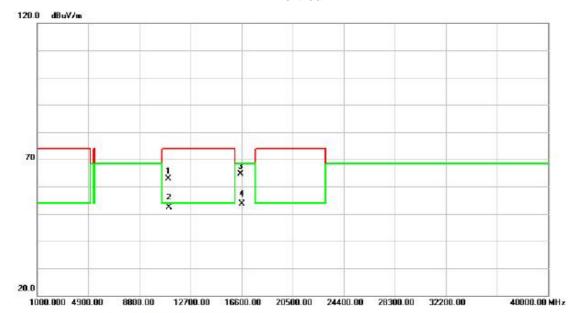
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5460.000	24.30	38.81	63.11	68.30	-5.19	peak	
2		5460.000	14.21	38.81	53.02	54.00	-0.98	AVG	
3		5470.000	28.50	38.84	67.34	68.30	-0.96	peak	
4		5470.000	18.48	38.84	57.32	68.30	-10.98	AVG	
5	*	5502.500	73.04	38.95	111.99	68.30	43.69	peak	No Limit
6	X	5502.500	62.52	38.95	101.47	68.30	33.17	AVG	No Limit

Report No.: BTL-FCCP-1-1410101A Page 100 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX N40 Mode 5510MHz

Vertical



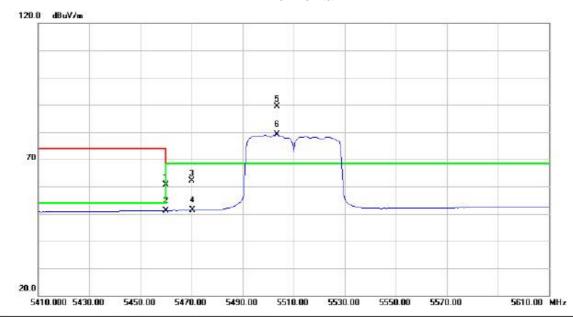
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	1020.46	41.95	21.02	62.97	74.00	-11.03	peak		
2	*	11	1020.46	31.45	21.02	52.47	54.00	-1.53	AVG		
3		16	5531.90	44.31	20.38	64.69	68.30	-3.61	peak		
4		16	5531.90	33.13	20.38	53.51	68.30	-14.79	AVG		

Report No.: BTL-FCCP-1-1410101A Page 101 of 233



Test Mode: UNII-2C/ TX N40 Mode 5510MHz

Horizontal



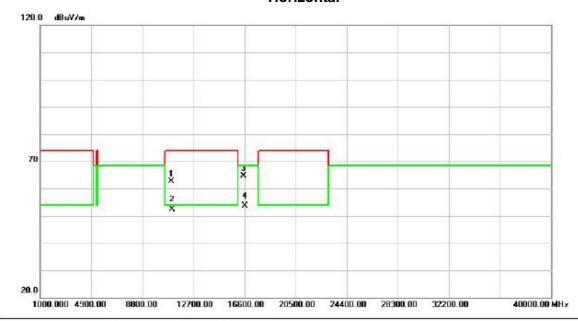
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		5460.000	21.82	38.81	60.63	68.30	-7.67	peak		
2		5460.000	12.37	38.81	51.18	54.00	-2.82	AVG		
3		5470.000	23.20	38.84	62.04	68.30	-6.26	peak		
4		5470.000	12.47	38.84	51.31	68.30	-16.99	AVG		
5	*	5503.500	50.30	38.96	89.26	68.30	20.96	peak	No Limit	
6	X	5503.500	40.12	38.96	79.08	68.30	10.78	AVG	No Limit	

Report No.: BTL-FCCP-1-1410101A Page 102 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX N40 Mode 5510MHz

Horizontal



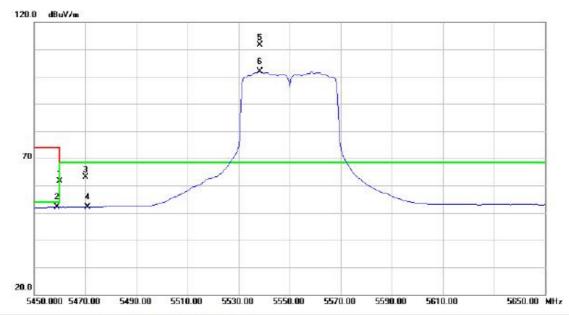
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	1020.07	41.62	21.02	62.64	74.00	-11.36	peak		
2	*	11	1020.07	31.34	21.02	52.36	54.00	-1.64	AVG		
3		16	5529.55	44.17	20.35	64.52	68.30	-3.78	peak		
4		16	5529.55	33.18	20.35	53.53	68.30	-14.77	AVG		

Report No.: BTL-FCCP-1-1410101A Page 103 of 233



Test Mode: UNII-2C/ TX N40 Mode 5550MHz

Vertical



No.	Mi	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		5460.000	22.80	38.81	61.61	68.30	-6.69	peak		
2		5460.000	13.24	38.81	52.05	54.00	-1.95	AVG		
3		5470.000	24.23	38.84	63.07	68.30	-5.23	peak		
4		5470.000	13.21	38.84	52.05	68.30	-16.25	AVG		
5	*	5538.500	72.70	39.04	111.74	68.30	43.44	peak	No Limit	
6	X	5538.500	62.90	39.04	101.94	68.30	33.64	AVG	No Limit	
										$\overline{}$

Report No.: BTL-FCCP-1-1410101A Page 104 of 233



Orthogonal Axis: X
Test Mode: UNII-2C/ TX N40 Mode 5550MHz

Vertical



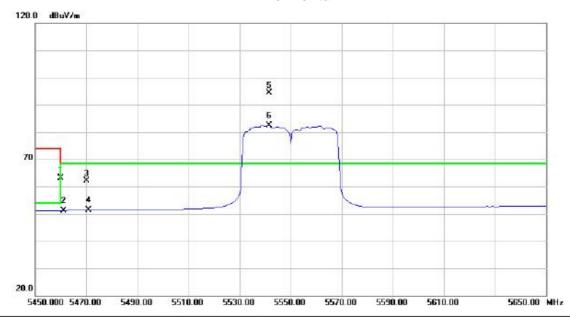
No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	097.61	44.70	20.91	65.61	74.00	-8.39	peak		
2	*	11	1097.61	31.45	20.91	52.36	54.00	-1.64	AVG		
3		16	649.56	44.60	21.60	66.20	68.30	-2.10	peak		
4		16	649.56	32.97	21.60	54.57	68.30	-13.73	AVG		

Report No.: BTL-FCCP-1-1410101A Page 105 of 233



Test Mode: UNII-2C/ TX N40 Mode 5550MHz

Horizontal



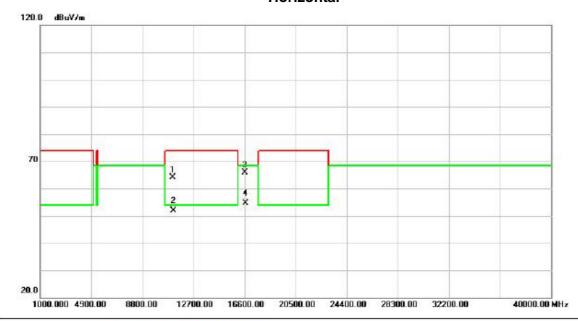
_	MHz	JD. M				Margin		
_		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	5460.000	24.24	38.81	63.05	68.30	-5.25	peak	
	5460.000	12.40	38.81	51.21	54.00	-2.79	AVG	
į	5470.000	23.20	38.84	62.04	68.30	-6.26	peak	
	5470.000	12.45	38.84	51.29	68.30	-17.01	AVG	
* (5541.500	55.40	39.04	94.44	68.30	26.14	peak	No Limit
X :	5541.500	43.46	39.04	82.50	68.30	14.20	AVG	No Limit
		5460.000 5470.000 5470.000 5541.500	5460.000 12.40 5470.000 23.20 5470.000 12.45 5541.500 55.40	5460.000 12.40 38.81 5470.000 23.20 38.84 5470.000 12.45 38.84 5541.500 55.40 39.04	5460.000 12.40 38.81 51.21 5470.000 23.20 38.84 62.04 5470.000 12.45 38.84 51.29 5541.500 55.40 39.04 94.44	5460.000 12.40 38.81 51.21 54.00 5470.000 23.20 38.84 62.04 68.30 5470.000 12.45 38.84 51.29 68.30 5541.500 55.40 39.04 94.44 68.30	5460.000 12.40 38.81 51.21 54.00 -2.79 5470.000 23.20 38.84 62.04 68.30 -6.26 5470.000 12.45 38.84 51.29 68.30 -17.01 5541.500 55.40 39.04 94.44 68.30 26.14	5460.000 12.40 38.81 51.21 54.00 -2.79 AVG 5470.000 23.20 38.84 62.04 68.30 -6.26 peak 5470.000 12.45 38.84 51.29 68.30 -17.01 AVG 5541.500 55.40 39.04 94.44 68.30 26.14 peak

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Orthogonal Axis: X
Test Mode: UNII-2C/ TX N40 Mode 5550MHz

Horizontal



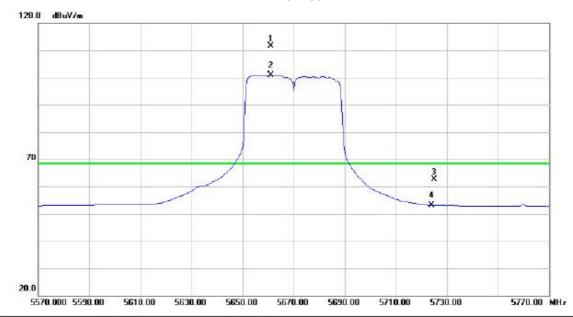
No.	Mi	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	099.07	43.31	20.91	64.22	74.00	-9.78	peak		
2	*	11	099.07	31.01	20.91	51.92	54.00	-2.08	AVG		
3		16	650.55	44.25	21.61	65.86	68.30	-2.44	peak		
4		16	650.55	32.99	21.61	54.60	68.30	-13.70	AVG		

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Orthogonal Axis: X
Test Mode: UNII-2C/ TX N40 Mode 5670MHz

Vertical



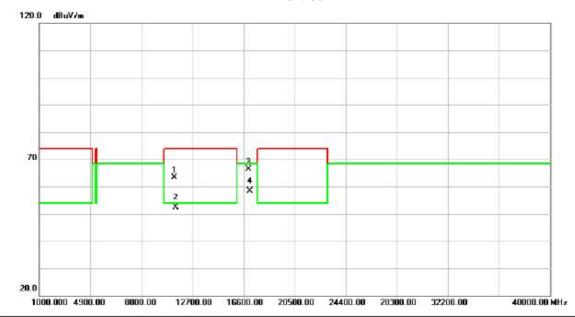
No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5661.000	72.40	39.31	111.71	68.30	43.41	peak	No Limit	
2	X	5661.000	61.63	39.31	100.94	68.30	32.64	AVG	No Limit	
3		5725.000	23.10	39.45	62.55	68.30	-5.75	peak		
4		5725.000	13.74	39.45	53.19	68.30	-15.11	AVG		

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Orthogonal Axis: X
Test Mode: UNII-2C/ TX N40 Mode 5670MHz

Vertical



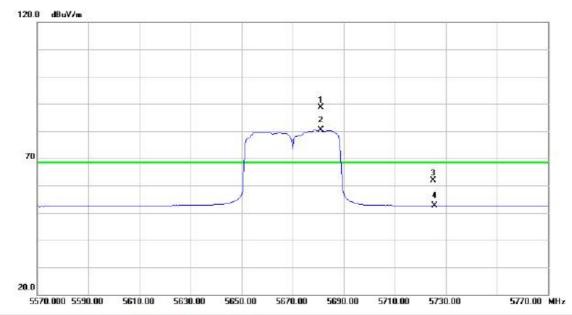
No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		11	1341.91	42.80	20.55	63.35	74.00	-10.65	peak		
2	*	11	1341.91	31.85	20.55	52.40	54.00	-1.60	AVG		
3		17	7010.35	41.19	25.24	66.43	68.30	-1.87	peak		
4		17	7010.35	33.02	25.24	58.26	68.30	-10.04	AVG		

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Test Mode: UNII-2C/ TX N40 Mode 5670MHz

Horizontal



No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	5681.000	49.38	39.36	88.74	68.30	20.44	peak	No Limit	
2	X	5681.000	41.05	39.36	80.41	68.30	12.11	AVG	No Limit	
3		5725.000	22.45	39.45	61.90	68.30	-6.40	peak		
4		5725.000	13.23	39.45	52.68	68.30	-15.62	AVG		

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