



FCC Radio Test Report

FCC ID: TE7C4000V3

This report concerns: Original Grant

Project No. : 1902C049

Equipment : AC4000 MU-MIMO Tri-Band Wi-Fi Router

Test Model : Archer C4000

Series Model : N/A

: TP-Link Technologies Co., Ltd. Applicant

: Building 24(floors1,3,4,5) and 28(floors1-4) Central Address

Science and Technology Park, Shennan Rd,

Nanshan, Shenzhen, China

Date of Receipt : Feb. 20, 2019

: Feb. 20, 2019 ~ May 13, 2019 Date of Test

Issued Date : May 13, 2019 : BTL Inc. Tested by

Testing Engineer

Technical Manager

Authorized Signatory

(Ethan Ma)

BTL INC

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



Certificate #5123.02

Report No.: BTL-FCCP-2-1902C049 Page 1 of 338 Report Version: R01





Declaration

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

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

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

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

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

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

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

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

Report No.: BTL-FCCP-2-1902C049 Page 2 of 338 Report Version: R01





Table of Contents	Page
REPORT ISSUED HISTORY	6
1 . GENERAL SUMMARY	7
2 . SUMMARY OF TEST RESULTS	8
2.1 TEST FACILITY	9
2.2 MEASUREMENT UNCERTAINTY	9
3 . GENERAL INFORMATION	10
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 TEST MODES	13
3.3 PARAMETERS OF TEST SOFTWARE	15
3.4 DUTY CYCLE	17
3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	19
3.6 SUPPORT UNITS	19
4 . AC POWER LINE CONDUCTED EMISSIONS TEST	20
4.1 LIMIT	20
4.2 TEST PROCEDURE	20
4.3 DEVIATION FROM TEST STANDARD	20
4.4 TEST SETUP	21
4.5 EUT OPERATION CONDITIONS	21
4.6 EUT TEST CONDITIONS	21
4.7 TEST RESULTS	21
5 . RADIATED EMISSIONS TEST	22
5.1 LIMIT	22
5.2 TEST PROCEDURE	23
5.3 DEVIATION FROM TEST STANDARD	23
5.4 TEST SETUP	24
5.5 EUT OPERATION CONDITIONS	25
5.6 EUT TEST CONDITIONS	25
5.7 TEST RESULTS - 9 KHZ to 30 MHZ	25
5.8 TEST RESULTS - 30 MHz TO 1000 MHz	25
5.9 TEST RESULTS - ABOVE 1000 MHz	25
6 . BANDWIDTH TEST	26
6.1 LIMIT	26
6.2 TEST PROCEDURE	26

Report No.: BTL-FCCP-2-1902C049

Page 3 of 338 Report Version: R01





Table of Contents	Pa
6.3 TEST PROCEDURE	20
6.4 TEST SETUP	2
6.5 EUT OPERATION CONDITIONS	2
6.6 EUT TEST CONDITIONS	2
6.7 TEST RESULTS	2
7 . MAXIMUM CONDUCTED OUTPUT POWER TEST	28
7.1 LIMIT	28
7.2 TEST PROCEDURE	28
7.3 DEVIATION FROM STANDARD	28
7.4 TEST SETUP	29
7.5 EUT OPERATION CONDITIONS	29
7.6 EUT TEST CONDITIONS	29
7.7 TEST RESULTS	29
8 . POWER SPECTRAL DENSITY TEST	30
8.1 LIMIT	3
8.2 TEST PROCEDURE	30
8.3 DEVIATION FROM STANDARD	3
8.4 TEST SETUP	3
8.5 EUT OPERATION CONDITIONS	3
8.6 UT TEST CONDITIONS	3
8.7 TEST RESULTS	3
9 . FREQUENCY STABILITY MEASUREMENT	32
9.1 LIMIT	32
9.2 TEST PROCEDURE	32
9.3 DEVIATION FROM STANDARD	32
9.4 TEST SETUP	32
9.5 EUT OPERATION CONDITIONS	32
9.6 EUT TEST CONDITIONS	32
9.7 TEST RESULTS	32
10 . MEASUREMENT INSTRUMENTS LIST	33
11 . EUT TEST PHOTOS	3
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	39
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	42

Report No.: BTL-FCCP-2-1902C049

Page 4 of 338 Report Version: R01





Table of Contents	Page
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ	47
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	50
APPENDIX E - BANDWIDTH	253
APPENDIX F - MAXIMUM CONDUCTED OUTPUT POWER	268
APPENDIX G - POWER SPECTRAL DENSITY	291
APPENDIX H - FREQUENCY STABILITY	336

Report No.: BTL-FCCP-2-1902C049

Page 5 of 338 Report Version: R01





REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Apr. 23, 2019
R01	Modified the comments of TCB.	May 13, 2019

Report No.: BTL-FCCP-2-1902C049

Page 6 of 338 Report Version: R01





1. GENERAL SUMMARY

Equipment : AC4000 MU-MIMO Tri-Band Wi-Fi Router

Brand Name: tp-link

Test Model : Archer C4000

Series Model: N/A

Applicant: TP-Link Technologies Co., Ltd. Manufacturer: TP-Link Technologies Co., Ltd.

: Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Address

Park, Shennan Rd, Nanshan, Shenzhen, China

Date of Test : Feb. 20, 2019 ~ May 13, 2019

Test Sample: Engineering Sample No.: D190201479

Standard(s) : FCC Part15, Subpart E(15.407)

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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-2-1902C049) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the UNII-1 and UNII-3 part.

Report No.: BTL-FCCP-2-1902C049 Page 7 of 338 Report Version: R01





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

	FCC Part15, Subpart E(15.407)					
Standard(s) Section	Test Item	Test Result	Judgement	Remark		
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS			
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS			
15.407(a) 15.407(e)	Spectrum Bandwidth	APPENDIX E	PASS			
15.407(a)	Maximum Conducted Output Power	APPENDIX F	PASS			
15.407(a)	Power Spectral Density	APPENDIX G	PASS			
15.407(g)	Frequency Stability	APPENDIX H	PASS			
15.203	Antenna Requirements		PASS	NOTE (4)		
15.407(c)	Automatically Discontinue Transmission		PASS	NOTE (2)		

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) 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.
- (3) For UNII-1 this device was functioned as a ⊠ Access point device ☐ Client device
- (4) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

Report No.: BTL-FCCP-2-1902C049

Page 8 of 338 Report Version: R01





2.1 TEST FACILITY

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

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

-	Test Site	Method	Measurement Frequency Range	U, (dB)
	DG-C02	CISPR	150 KHz ~ 30 MHz	2.32

B. Radiated emissions test:

Cimodono tost.					
Test Site	Method	Measurement Frequency	Ant.	U, (dB)	
		Range	H/V	0, (02)	
		9 kHz~30 MHz	V	3.79	
		9 kHz~30 MHz	Н	3.57	
	CISPR		30 MHz~200 MHz	V	3.82
		30 MHz~200 MHz	Н	3.60	
DG-CB03		200 MHz~1,000 MHz	V	3.86	
DG-CB03		200 MHz~1,000 MHz	Н	3.94	
		1 GHz~18 GHz	V	3.12	
		1 GH	1 GHz~18 GHz	Н	3.68
		18 GHz~40 GHz	V	4.15	
		18 GHz~40 GHz	Н	4.14	

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

Report No.: BTL-FCCP-2-1902C049 Report Version: R01





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC4000 MU-MIMO Tri-Band Wi-Fi Router	
Brand Name	tp-link	
Test Model	Archer C4000	
Series Model	N/A	
Model Difference(s)	N/A	
Power Source	DC voltage supplied from AC/DC adapter. Model: S050FU1200400	
Power Rating	I/P: 100-240V~ 50/60Hz 1.5A Max O/P: 12.0V === 4000mA	
Operation Frequency	UNII-1: 5150 MHz ~ 5250 MHz UNII-3: 5725 MHz ~ 5850 MHz	
Modulation Type	OFDM	
Bit Rate of Transmitter	Up to 1625 Mbps	
Maximum Conducted Output Power for UNII-1 _Non-Beamforming	IEEE 802.11a: 27.26 dBm (0.5321 W) IEEE 802.11n (HT20): 27.78 dBm (0.5998 W) IEEE 802.11n (HT40): 27.52 dBm (0.5649 W) IEEE 802.11ac (VHT20): 27.67 dBm (0.5848 W) IEEE 802.11ac (VHT40): 26.06 dBm (0.4036 W) IEEE 802.11ac (VHT80): 21.73 dBm (0.1489 W)	
Maximum Conducted Output Power for UNII-3 _Non-Beamforming	IEEE 802.11a: 28.90 dBm (0.7762 W) IEEE 802.11n (HT20): 28.74 dBm (0.7482 W) IEEE 802.11n (HT40): 29.20 dBm (0.8318 W) IEEE 802.11ac (VHT20): 28.62 dBm (0.7278 W) IEEE 802.11ac (VHT40): 28.78 dBm (0.7551 W) IEEE 802.11ac (VHT80): 24.58 dBm (0.2871 W)	
Maximum Conducted Output Power for UNII-1 _With Beamforming IEEE 802.11n (HT20): 27.77 dBm (0.5984 W) IEEE 802.11n (HT40): 27.22 dBm (0.5272 W) IEEE 802.11ac (VHT20): 27.65 dBm (0.5821 W) IEEE 802.11ac (VHT40): 26.84 dBm (0.4831 W) IEEE 802.11ac (VHT80): 22.68 dBm (0.1854 W)		
Maximum Conducted Output Power for UNII-3_ With Beamforming IEEE 802.11ac (V11180): 22.08 dBm (0.1834 W) IEEE 802.11n (HT20): 28.85 dBm (0.7674 W) IEEE 802.11n (HT40): 29.17 dBm (0.8260 W) IEEE 802.11ac (VHT20): 28.59 dBm (0.7228 W) IEEE 802.11ac (VHT40): 28.74 dBm (0.7482 W) IEEE 802.11ac (VHT80): 27.36 dBm (0.5445 W)		

Note:

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

Report No.: BTL-FCCP-2-1902C049

Page 1

Report Veri





2. Channel List:

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

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	TP-LINK®	N/A	Dipole	N/A	1.8	UNII-1
2	TP-LINK®	N/A	Dipole	N/A	1.8	UNII-1
3	TP-LINK®	N/A	Dipole	N/A	1.8	UNII-1
4	TP-LINK®	N/A	Dipole	N/A	1.8	UNII-3
5	TP-LINK®	N/A	Dipole	N/A	1.8	UNII-3
6	TP-LINK®	N/A	Dipole	N/A	1.8	UNII-3

Note: This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain, where Array Gain is as follows:

(1) Non-Beamforming function,

For power spectral density measurements, $N_{ANT} = 3$, $N_{SS} = 1$.

So Directional gain = G_{ANT} + Array Gain =10 log (N_{ANT} / N_{SS}) dB =1.8+10log(3/1)dBi =6.57. Then, the UNII-1 power spectral density limit is 17-6.57+6=16.43, the UNII-3 power density limit is 30-6.57+6=29.43.

For power measurements, Array Gain = 0 dB ($N_{ANT} \le 4$), so the Directional gain=1.8.

(2) Beamforming function, Beamforming Gain: 4.77 dB.

So Directional gain = 4.77+1.8=6.57. Then, the UNII-1 and UNII-3 output power limit is 30-6.57+6=29.43; the UNII-1 power density limit is 17-6.57+6=16.43, the UNII-3 power density limit is 30-6.57+6=29.43.

Report No.: BTL-FCCP-2-1902C049 Page 11 of 338
Report Version: R01





4. Table for Antenna Configuration:

Operating Mode	3TX
TX Mode	317
IEEE 802.11a	V (Ant. 1 + Ant. 2 + Ant. 3) & V (Ant. 4 + Ant. 5 + Ant. 6)
IEEE 802.11n (HT20)	V (Ant. 1 + Ant. 2 + Ant. 3) & V (Ant. 4 + Ant. 5 + Ant. 6)
IEEE 802.11n (HT40)	V (Ant. 1 + Ant. 2 + Ant. 3) & V (Ant. 4 + Ant. 5 + Ant. 6)
IEEE 802.11ac (VHT20)	V (Ant. 1 + Ant. 2 + Ant. 3) & V (Ant. 4 + Ant. 5 + Ant. 6)
IEEE 802.11ac (VHT40)	V (Ant. 1 + Ant. 2 + Ant. 3) & V (Ant. 4 + Ant. 5 + Ant. 6)
IEEE 802.11ac (VHT80)	V (Ant. 1 + Ant. 2 + Ant. 3) & V (Ant. 4 + Ant. 5 + Ant. 6)

Report No.: BTL-FCCP-2-1902C049





3.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 13	TX N(HT40) Mode / CH159 (UNII-3)

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

AC power line conducted emissions test		
Final Test Mode	Description	
Mode 13	TX N(HT40) Mode / CH159 (UNII-3)	

Radiated emissions test – Below 1G		
Final Test Mode	Description	
Mode 13	TX N(HT40) Mode / CH159 (UNII-3)	

Report No.: BTL-FCCP-2-1902C049 Page 13 of 338





Radiated emissions test– Above 1G			
Final Test Mode	Description		
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)		
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)		
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)		
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)		
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)		
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)		
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)		
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)		
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)		
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)		
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)		
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)		

Conducted test			
Final Test Mode	Description		
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)		
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)		
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)		
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)		
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)		
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)		
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)		
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)		
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)		
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)		
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)		
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)		

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11n40 channel 159 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.

Report No.: BTL-FCCP-2-1902C049 Page 14 of 338
Report Version: R01





3.3 PARAMETERS OF TEST SOFTWARE

Non-Beamforming

UNII-1			
Test Software	ac	cessMTool_REL_3_0_0)_1
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	79	89	92
IEEE 802.11n (HT20)	78	91	94
IEEE 802.11ac (VHT20)	77	92	94
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	70	90	
IEEE 802.11ac (VHT40)	71	88	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	69		

UNII-3			
Test Software	accessMTool_REL_3_0_0_1		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	100	100	100
IEEE 802.11n (HT20)	100	101	101
IEEE 802.11ac (VHT20)	102	102	102
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	102	102	
IEEE 802.11ac (VHT40)	102	102	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	85		

Report No.: BTL-FCCP-2-1902C049





With Beamforming

UNII-1			
Test Software	ac	cessMTool_REL_3_0_0	_1
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	83	91	94
IEEE 802.11ac (VHT20)	83	92	94
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	73	92	
IEEE 802.11ac (VHT40)	74	92	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	73		

UNII-3			
Test Software	ac	cessMTool_REL_3_0_0	_1
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	100	101	101
IEEE 802.11ac (VHT20)	102	102	102
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	102	102	
IEEE 802.11ac (VHT40)	102	102	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	92		

Report No.: BTL-FCCP-2-1902C049

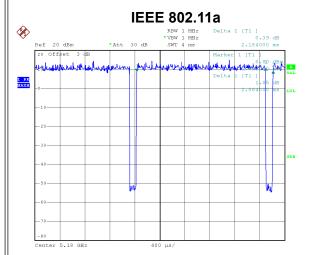
Page 16 of 338 Report Version: R01

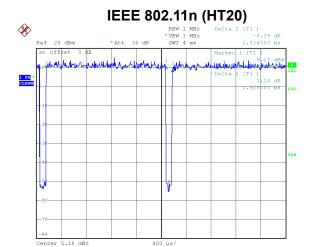




3.4 DUTY CYCLE

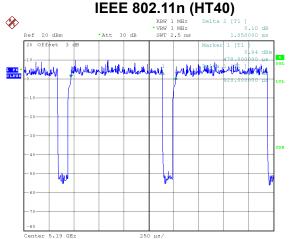
If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is \leq 98 %, duty factor shall be considered.



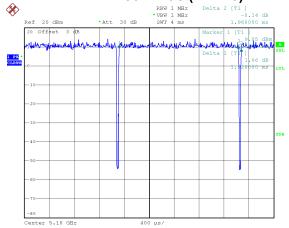


Date: 5.MAR.2019 16:24:39

Duty cycle = 2.064 ms / 2.184 ms = 94.51% Duty Factor = 10 * log(1 / 94.51%) = 0.25 dB



Duty cycle = 1.920 ms / 2.024 ms = 94.86% Duty Factor = 10 * log(1 / 94.86%) = 0.23 dB IEEE 802.11ac (VHT20)



Date: 5.MAR.2019 16:26:10

Duty cycle = 0.920 ms / 1.050 ms = 87.62%Duty Factor = $10 * \log(1 / 87.62\%) = 0.57 \text{ dB}$ Date: 5.MAR.2019 16:25:41

Date: 5.MAR.2019 16:25:11

Duty cycle = 1.920 ms / 1.960 ms = 97.96%Duty Factor = $10 * \log(1 / 97.96\%) = 0.09 \text{ dB}$

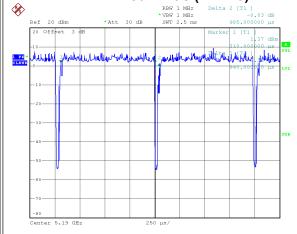
Report No.: BTL-FCCP-2-1902C049

Page 17 of 338 Report Version: R01

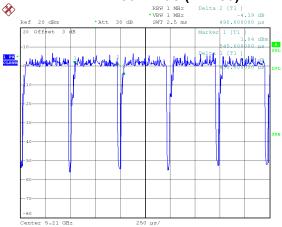








IEEE 802.11ac (VHT80)



Date: 5.MAR.2019 16:26:30

Duty cycle = 0.940 ms / 0.985 ms = 95.43%Duty Factor = $10 * \log(1 / 95.43\%) = 0.20 \text{ dB}$ Date: 5.MAR.2019 16:26:58

Duty cycle = 0.430 ms / 0.490 ms = 87.76%Duty Factor = $10 * \log(1 / 87.76\%) = 0.57 \text{ dB}$

NOTE

For IEEE 802.11a, IEEE 802.11n (HT20) and IEEE 802.11ac (VHT20):

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

For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

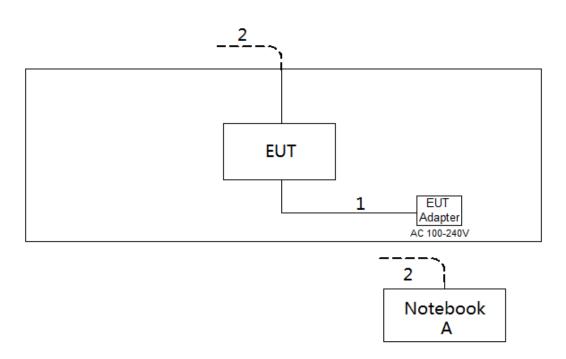
Report No.: BTL-FCCP-2-1902C049

Page 18 of 338 Report Version: R01





3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

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

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

Report No.: BTL-FCCP-2-1902C049 Report Version: R01





4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Frequency	Limit (dBµV)		
(MHz)	Qu□si□peak	Average	
0.15 - 0.50	66 to 56*	56 to 46*	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

NOTE:

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

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

4.3 DEVIATION FROM TEST STANDARD

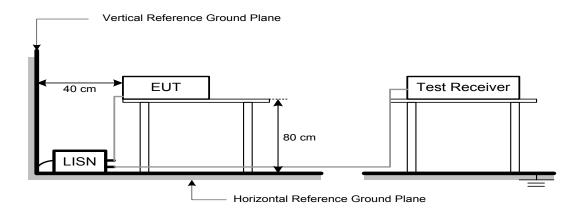
No deviation

Report No.: BTL-FCCP-2-1902C049 Page 20 of 338





4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

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

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

4.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

4.7 TEST RESULTS

Please refer to the APPENDIX A.

Report No.: BTL-FCCP-2-1902C049

Page 21 of 338 Report Version: R01





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)

ENVITO OF TO USIN TES ENVIOLENCE MENTENT TO MILE TO TOO MILE			
Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/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	

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

EIMITO OF GIVEN WITE EIMIOGIGIT OUT OF THE RESTRICTED BY WES			
Frequency	EIRP Limit	Equivalent Field Strength at 3m	
(MHz)	(dBm/MHz)	(dBµV/m)	
5150-5250	-27	68.3	
5250-5350	-27	68.3	
5470-5725	-27	68.3	
	-27 NOTE (2)	68.3	
5725-5850	10 NOTE (2)	105.3	
	15.6 NOTE (2)	110.9	
	27 NOTE (2)	122.3	

NOTE:

- (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E = \frac{1000000\sqrt{30P}}{}$ μ V/m, where P is the eirp (Watts)
- (2) 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.

Report No.: BTL-FCCP-2-1902C049 Page 22 of 338





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

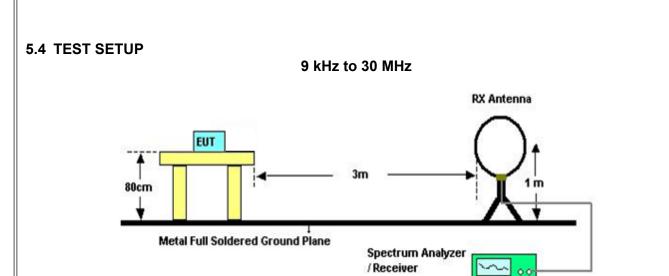
5.3 DEVIATION FROM TEST STANDARD

No deviation

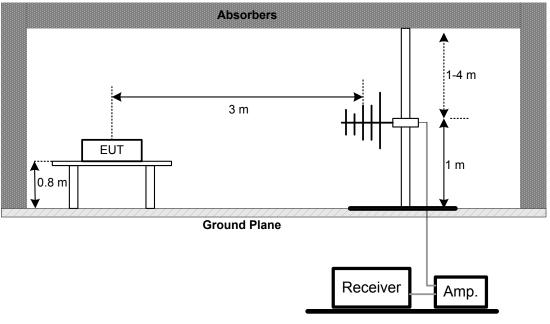
Report No.: BTL-FCCP-2-1902C049 Page 23 of 338 Report Version: R01







30 MHz to 1 GHz



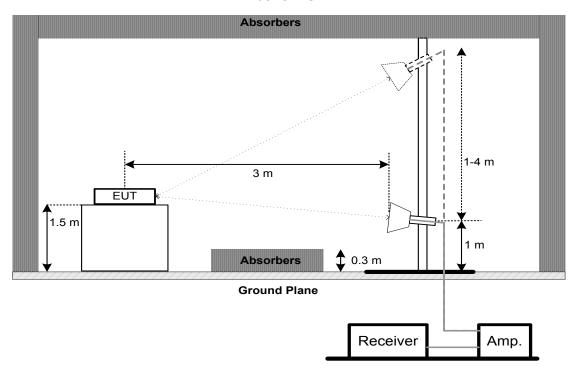
Report No.: BTL-FCCP-2-1902C049

Page 24 of 338 Report Version: R01





Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

5.7 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

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

5.8 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

5.9 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

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

Report No.: BTL-FCCP-2-1902C049





6. BANDWIDTH TEST

6.1 LIMIT

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

6.2 TEST PROCEDURE

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

For UNII-1:

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

For UNII-3:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
Messured the enactrum width with newer	

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

6.3 TEST PROCEDURE

No deviation.

Report No.: BTL-FCCP-2-1902C049





6.4	TEST	SETU	ΙP
-----	------	------	----

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 68% Test Voltage: AC 120V/60Hz

6.7 TEST RESULTS

Please refer to the APPENDIX E.

Report No.: BTL-FCCP-2-1902C049

Page 27 of 338 Report Version: R01





7. MAXIMUM CONDUCTED OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)				
Section Test Item Limit Frequency Range (MHz)				
15.407(a)	Maximum Conducted Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 dBm)	5150-5250	
	-	1 Watt (30dBm)	5725-5850	

Note:

a. For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 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

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Used spectrum analyzer band power measurement function.

c. Spectrum Setting

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
Sweep points	≥ 2 x span / RBW
Detector	RMS
Trace	Trace average at least 100 traces in power averaging(rms) mode.
Sweep Time	auto

Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

7.3 DEVIATION FROM STANDARD

No deviation.

Report No.: BTL-FCCP-2-1902C049 Report Version: R01





7	4 7	LEC	TC	CT	ш	D
1.4	4	ıEə	13		U	М

EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 68% Test Voltage: AC 120V/60Hz

7.7 TEST RESULTS

Please refer to the APPENDIX F.

Report No.: BTL-FCCP-2-1902C049

Page 29 of 338 Report Version: R01





8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart E (15.407)					
Section	Frequency Range (MHz)				
15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250		
,		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 average	100 trace
Sweep Time	Auto

Note:

- 1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
- 2. The value measured with RBW=1 MHz is to be added with 10log(500 kHz/1 MHz) which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

8.3 DEVIATION FROM STANDARD

No deviation.

Report No.: BTL-FCCP-2-1902C049





0 4	TECT	CE	TUP
0.4	IESI) SE	IUP

EUT	SPECTRUM
	ANALYZER

8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 UT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 68% Test Voltage: AC 120V/60Hz

8.7 TEST RESULTS

Please refer to the APPENDIX H.

Report No.: BTL-FCCP-2-1902C049

Page 31 of 338 Report Version: R01





9. FREQUENCY STABILITY MEASUREMENT

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 5725-5850		

9.2 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:

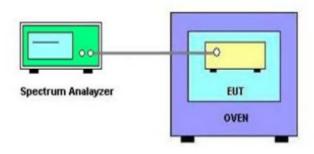
opecitum octing.				
Spectrum Parameter	Setting			
Attenuation	Auto			
Span Frequency	Entire absence of modulation emissions bandwidth			
RBW	10 kHz			
VBW	10 kHz			
Sweep Time	Auto			

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

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

9.7 TEST RESULTS

Please refer to the APPENDIX I.

Report No.: BTL-FCCP-2-1902C049 Page 32 of 338
Report Version: R01





10. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020	
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020	
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020	
4	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Mar. 10, 2020	
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020	
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
7	Cable	N/A	RG223	12m	Mar. 12, 2020	

	Radiated Emissions - 9 kHz to 30 MHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020		
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019		
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020		
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

Radiated Emissions - 30 MHz to 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020	
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019	
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019	
4	Cable	emci	LMR-400(30MHz- 1GHz)(8m+5m)	N/A	May 25, 2019	
5	Controller	CT	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF780208416	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020	
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019	
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020	
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020	
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019	
6	Controller	CT	SC100	N/A	N/A	
7	Controller	MF	MF-7802	MF780208416	N/A	
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019	
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

Report No.: BTL-FCCP-2-1902C049





Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Maximum Conducted Output Power						
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until					
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019	

	Power Spectral Density							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019			

Frequency Stability								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019			
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Mar. 10, 2020			

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

Page 34 of 338 Report Version: R01 Report No.: BTL-FCCP-2-1902C049





11. EUT TEST PHOTOS

AC Power Line Conducted Emissions Test Photos





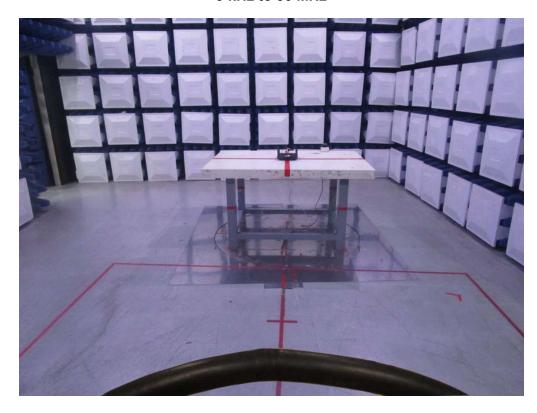
Report No.: BTL-FCCP-2-1902C049





Radiated Emissions Test Photos

9 kHz to 30 MHz





Report No.: BTL-FCCP-2-1902C049

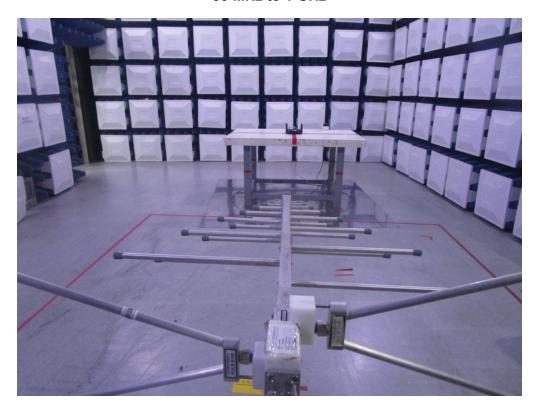
Page 36 of 338 Report Version: R01

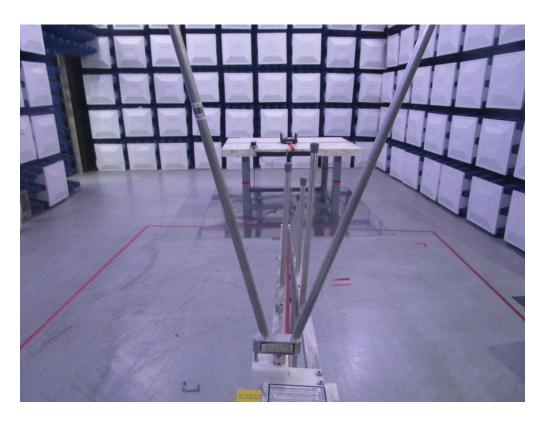




Radiated Emissions Test Photos

30 MHz to 1 GHz





Report No.: BTL-FCCP-2-1902C049

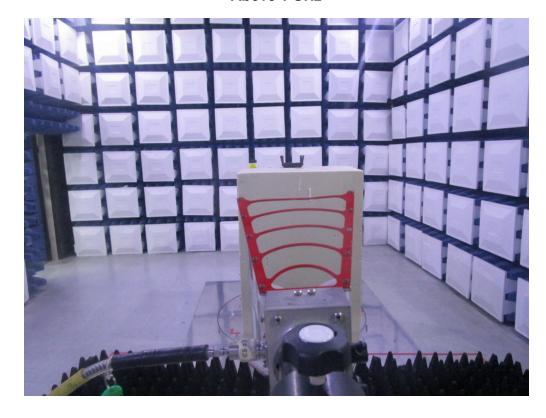
Page 37 of 338 Report Version: R01





Radiated Emissions Test Photos

Above 1 GHz









APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

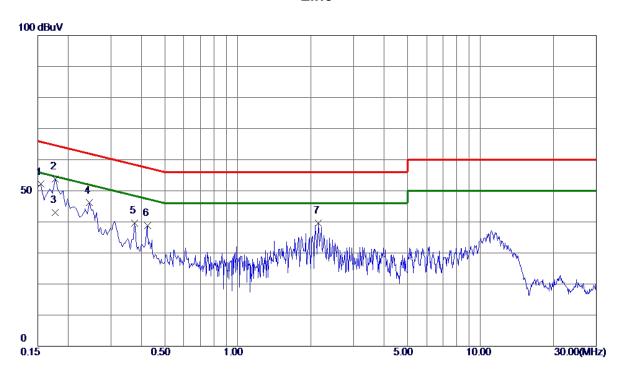
Report No.: BTL-FCCP-2-1902C049





Test Mode: TX N40 MODE CHANNEL 159

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1545	42. 28	9.82	52. 1 0	65. 75	-13.65	Peak	
2 *	0.1770	43.91	9.82	53. 73	64.63	-10.90	Peak	
3	0.1770	33. 13	9.82	42.95	54.63	-11.68	AVG	
4	0. 2445	36. 28	9.82	46. 10	61.94	-15.84	Peak	
5	0.3750	29.86	9.81	39. 67	58. 39	-18.72	Peak	
6	0.4245	29.02	9.80	38. 82	57.36	-18.54	Peak	
7	2. 1480	29.65	10. 01	39. 66	56.00	-16. 34	Peak	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

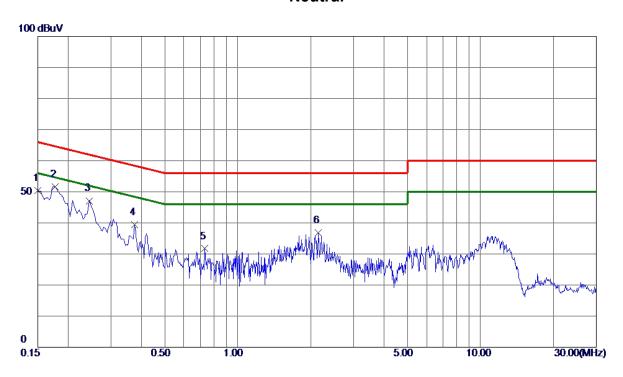
Page 40 of 338 Report Version: R01





Test Mode: TX N40 MODE CHANNEL 159

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	40.48	9. 91	50. 39	66.00	-15.61	Peak	
2 *	0.1770	41.72	9. 91	51.63	64.63	-13.00	Peak	
3	0. 2445	37. 18	9. 92	47. 10	61.94	-14.84	Peak	
4	0.3750	29. 50	9. 95	39. 45	58. 39	-18.94	Peak	
5	0.7304	21.64	10.06	31.70	56.00	-24.30	Peak	
6	2. 1480	26. 63	10. 20	36.83	56.00	-19. 17	Peak	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 41 of 338 Report Version: R01





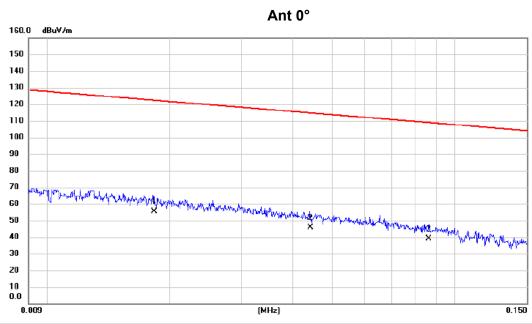
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Report No.: BTL-FCCP-2-1902C049 Page





Test Mode: TX N40 MODE CHANNEL 159



No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0183	35.10	20.26	55.36	122.36	-67.00	AVG	
2	0.0442	26.20	19.63	45.83	114.70	-68.87	AVG	
3	0.0863	20.40	18.77	39.17	108.88	-69.71	AVG	

REMARKS:

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

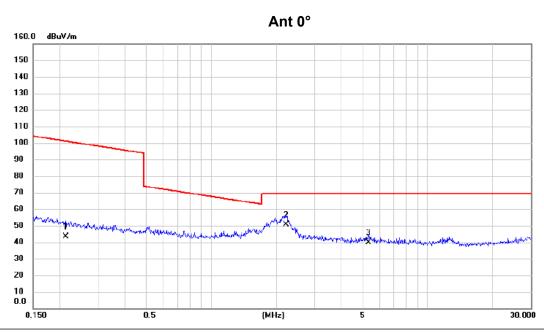
Report No.: BTL-FCCP-2-1902C049

Page 43 of 338 Report Version: R01





Test Mode: TX N40 MODE CHANNEL 159



	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	0.2134	26.10	17.13	43.23	101.02	-57.79	AVG	
_	2 *	2.2250	33.81	16.98	50.79	69.54	-18.75	QP	
	3	5.3332	24.90	15.10	40.00	69.54	-29.54	QP	

REMARKS:

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

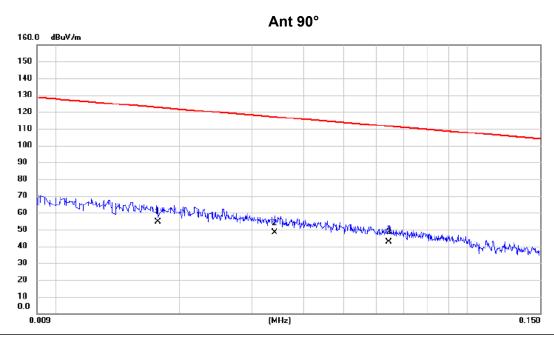
Report No.: BTL-FCCP-2-1902C049

Page 44 of 338 Report Version: R01





Test Mode: TX N40 MODE CHANNEL 159



No.	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0177	34.10	20.34	54.44	122.65	-68.21	AVG	
2		0.0340	28.50	19.80	48.30	116.98	-68.68	AVG	
3		0.0643	23.40	19.24	42.64	111.44	-68.80	AVG	

REMARKS:

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

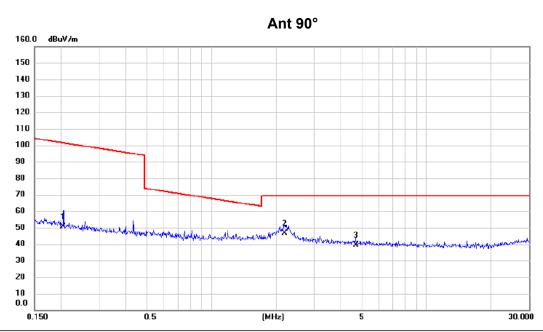
Report No.: BTL-FCCP-2-1902C049

Page 45 of 338 Report Version: R01





Test Mode: TX N40 MODE CHANNEL 159



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2045	33.60	17.15	50.75	101.39	-50.64	AVG	
2 *	2.1956	29.70	17.00	46.70	69.54	-22.84	QP	
3	4.6964	24.10	15.34	39.44	69.54	-30.10	QP	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 46 of 338 Report Version: R01





APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

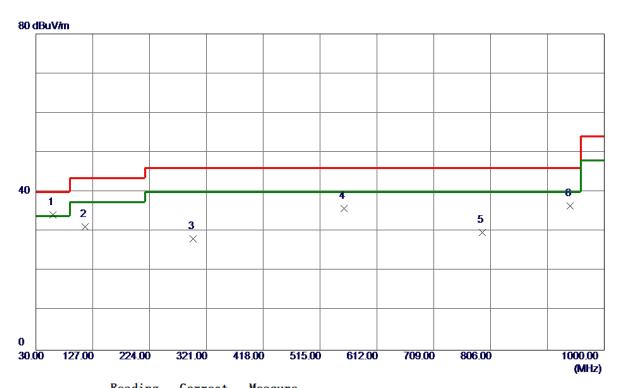
Report No.: BTL-FCCP-2-1902C049





Test Mode: TX N40 MODE CHANNEL 159

Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	59. 1000	49.87	-15. 56	34. 31	40.00	-5. 69	Peak	
2	114. 3900	46.81	-15. 58	31. 23	43.50	-12. 27	Peak	
3	298. 6900	38. 62	-10. 45	28. 17	46.00	-17.83	Peak	
4	555. 7400	41. 36	-5. 56	35. 80	46.00	-10. 20	Peak	
5	792. 4200	31. 33	-1.50	29.83	46.00	-16. 17	Peak	
6	941.8000	35. 41	1. 08	36. 49	46.00	-9. 51	Peak	

REMARKS:

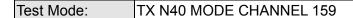
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

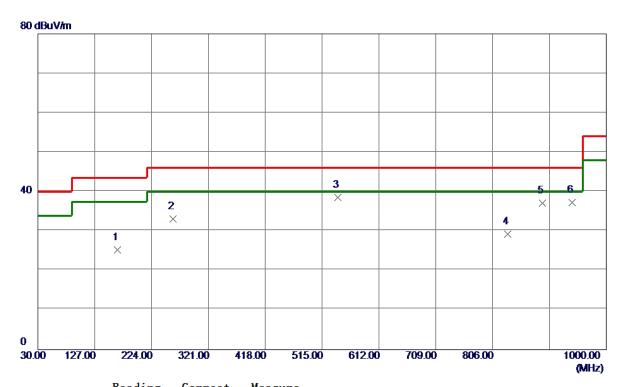
Report No.: BTL-FCCP-2-1902C049

Page 48 of 338 Report Version: R01









No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	165.8000	36. 18	-10.95	25. 23	43.50	-18. 27	Peak	
2	260.8599	46. 58	-13.42	33. 16	46.00	-12.84	Peak	
3 *	542. 1599	44. 52	-5. 94	38. 58	46.00	-7.42	Peak	
4	832. 1900	30.82	-1.54	29. 28	46.00	-16. 72	Peak	
5	891. 3600	37.89	-0.81	37.08	46.00	-8. 92	Peak	
6	941.8000	36. 21	1. 08	37. 29	46.00	-8.71	Peak	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 49 of 338 Report Version: R01





APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Report No.: BTL-FCCP-2-1902C049

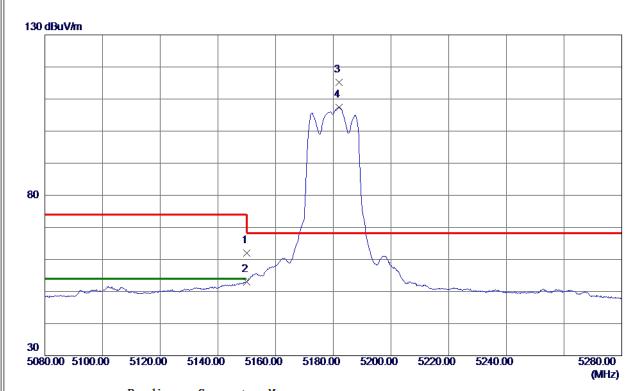




Non-Beamforming

Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	46. 31	15. 74	62.05	74.00	-11. 95	Peak	
2	5150.0000	37. 35	15. 74	53. 09	54.00	-0.91	AVG	
3 *	5182.0000	99. 47	15. 80	115. 27	68.30	46. 97	Peak	No Limit
4	5182. 1000	91. 68	15. 80	107.48	999. 00	-891. 52	AVG	No Limit

REMARKS:

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

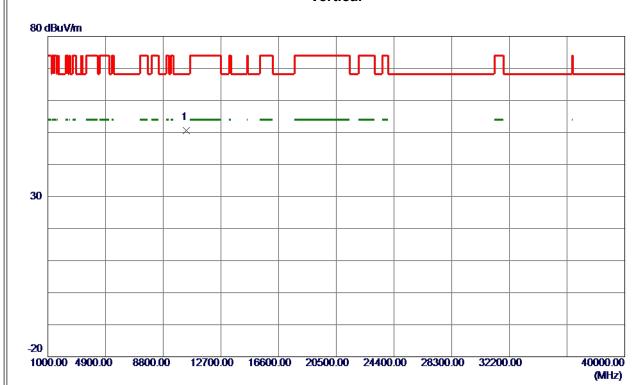
Report No.: BTL-FCCP-2-1902C049

Page 51 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10353. 7000	40. 13	10. 57	50. 70	68. 30	-17. 60	Peak	

REMARKS:

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

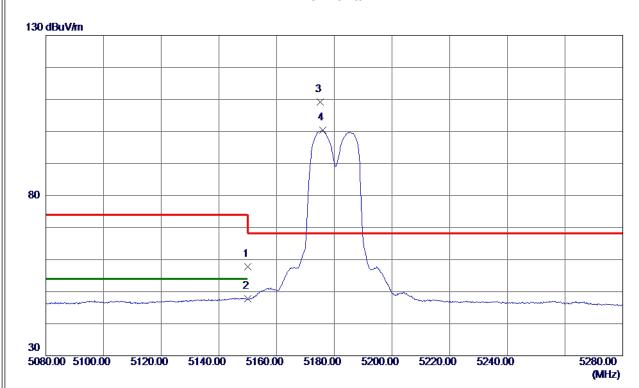
Report No.: BTL-FCCP-2-1902C049

Page 52 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5180 MHz



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	42.07	15.74	57.81	74.00	-16. 19	Peak	
2	5150.0000	32. 01	15.74	47.75	54.00	-6. 25	AVG	
3 *	5175. 2000	93.44	15. 79	109. 23	68.30	40.93	Peak	No Limit
4	5176. 0000	84. 53	15. 79	100. 32	999.00	-898. 68	AVG	No Limit

REMARKS:

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

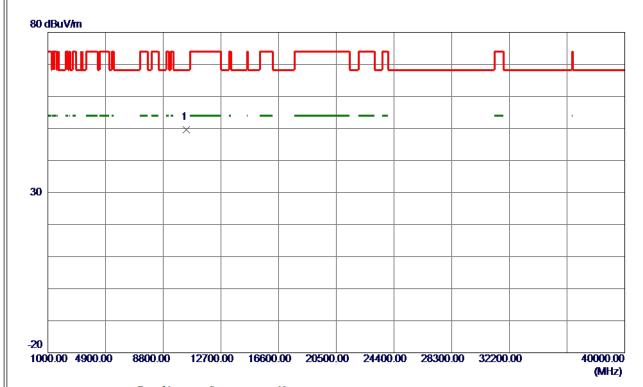
Report No.: BTL-FCCP-2-1902C049

Page 53 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX A Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10351. 8000	38. 99	10. 57	49. 56	68. 30	-18.74	Peak	

REMARKS:

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

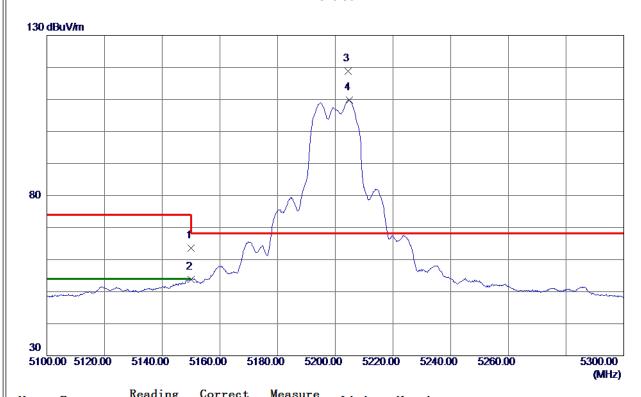
Report No.: BTL-FCCP-2-1902C049

Page 54 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5200 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	47.93	15. 74	63. 67	74.00	-10.33	Peak	
2	5150.0000	37. 99	15. 74	53. 73	54.00	-0. 27	AVG	
3 *	5204.4000	102.99	15.84	118.83	68.30	50. 53	Peak	No Limit
4	5204.8000	93. 98	15. 85	109.83	999.00	-889. 17	AVG	No Limit

REMARKS:

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

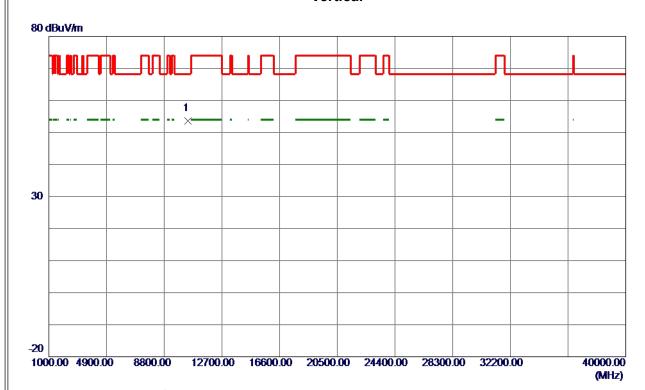
Report No.: BTL-FCCP-2-1902C049

Page 55 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10403. 5500	43.00	10. 64	53. 64	68. 30	-14. 66	Peak	

REMARKS:

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

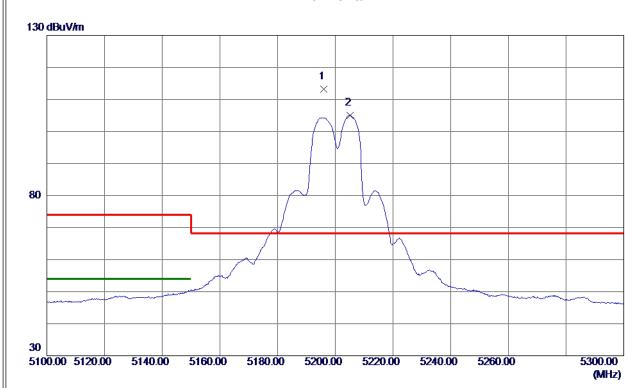
Report No.: BTL-FCCP-2-1902C049

Page 56 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX A Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5196.0000	97. 38	15.83	113. 21	68.30	44.91	Peak	No Limit
2	5205. 2000	89. 18	15. 85	105. 03	999.00	-893. 97	AVG	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 57 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX A Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10392. 4000	41.69	10.62	52. 31	68. 30	-15. 99	Peak	

REMARKS:

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

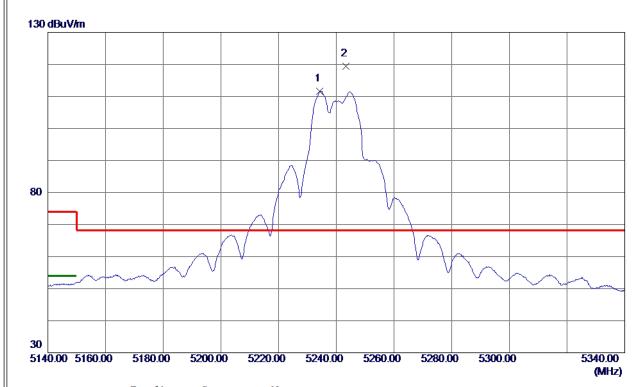
Report No.: BTL-FCCP-2-1902C049

Page 58 of 338 Report Version: R01





П		
ı	Orthogonal Axis	X
П	Cranogoriai / trao	· ·
ı	Test Mode	UNII-1 TX A Mode 5240 MHz
ı	Test Mode	UNII-1_ I X A Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5234.3000	95. 69	15. 90	111. 59	999.00	-887.41	AVG	No Limit
2 *	5243. 3000	103. 48	15. 92	119. 40	68. 30	51. 10	Peak	No Limit

REMARKS:

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

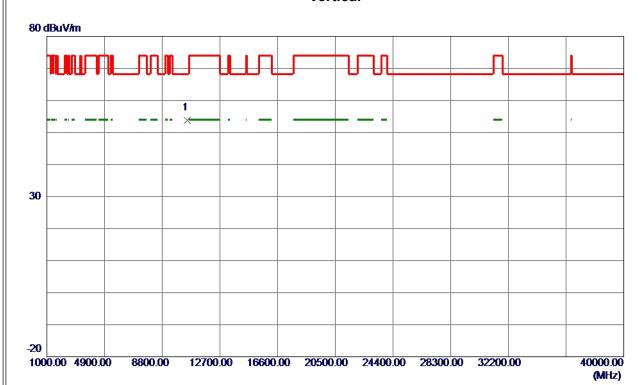
Report No.: BTL-FCCP-2-1902C049

Page 59 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10474. 4500	43.09	10. 73	53. 82	68. 30	-14.48	Peak	

REMARKS:

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

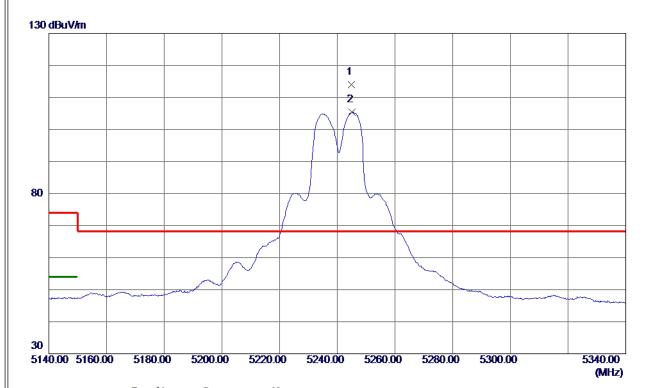
Report No.: BTL-FCCP-2-1902C049

Page 60 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX A Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5244.9000	98. 00	15.92	113.92	68.30	45.62	Peak	No Limit
2	5245. 1000	89. 46	15. 93	105. 39	999.00	-893. 61	AVG	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 61 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX A Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10474. 8000	41.81	10. 73	52. 54	68. 30	-15. 76	Peak	

REMARKS:

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

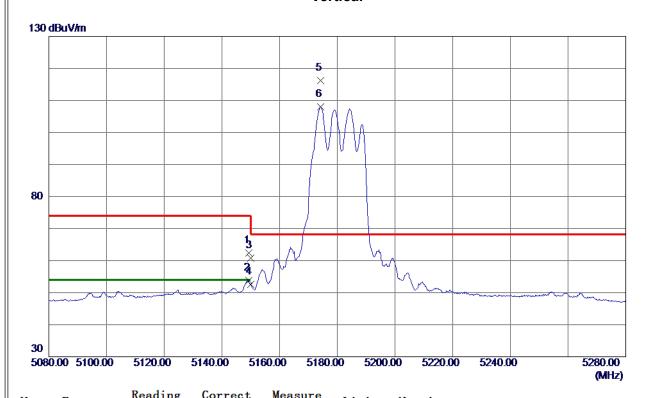
Report No.: BTL-FCCP-2-1902C049

Page 62 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5149. 3000	46.74	15. 74	62.48	74.00	-11. 52	Peak	
2	5149. 3000	38. 09	15. 74	53.83	54.00	-0. 17	AVG	
3	5150.0000	45. 12	15. 74	60.86	74.00	-13. 14	Peak	
4	5150. 0000	36. 77	15. 74	52. 51	54.00	-1.49	AVG	
5 *	5174. 2000	100. 50	15. 78	116. 28	68.30	47. 98	Peak	No Limit
6	5174. 2000	92. 30	15. 78	108. 08	999.00	-890. 92	AVG	No Limit

REMARKS:

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

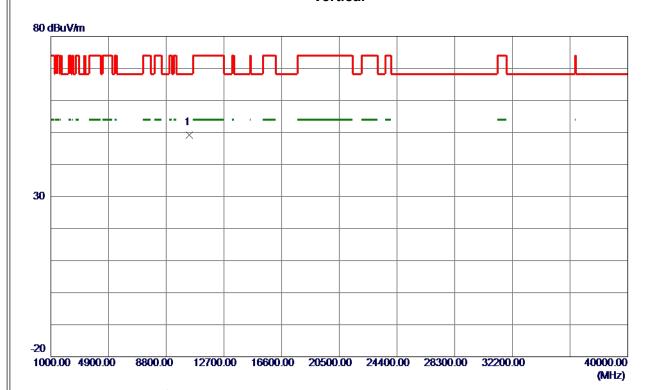
Report No.: BTL-FCCP-2-1902C049

Page 63 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10367. 3000	38. 65	10. 59	49. 24	68. 30	-19. 06	Peak	

REMARKS:

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

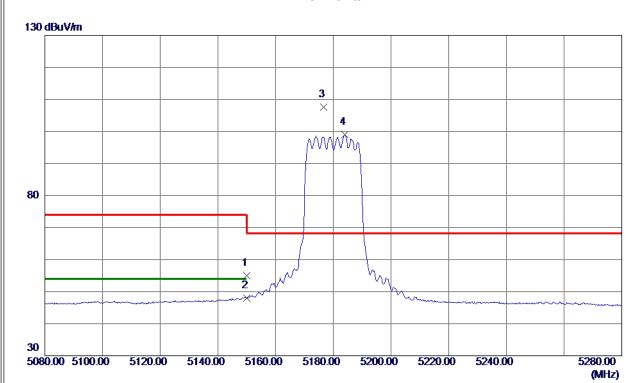
Report No.: BTL-FCCP-2-1902C049

Page 64 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz



No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	39. 17	15. 74	54.91	74.00	-19.09	Peak	
2	5150.0000	32. 22	15. 74	47. 96	54.00	-6. 04	AVG	
3 *	5176.6000	91.82	15. 79	107.61	68.30	39. 31	Peak	No Limit
4	5184.0000	83. 26	15. 80	99. 06	999.00	-899. 94	AVG	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 65 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10357. 3000	37. 48	10. 58	48. 06	68. 30	-20. 24	Peak	

REMARKS:

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

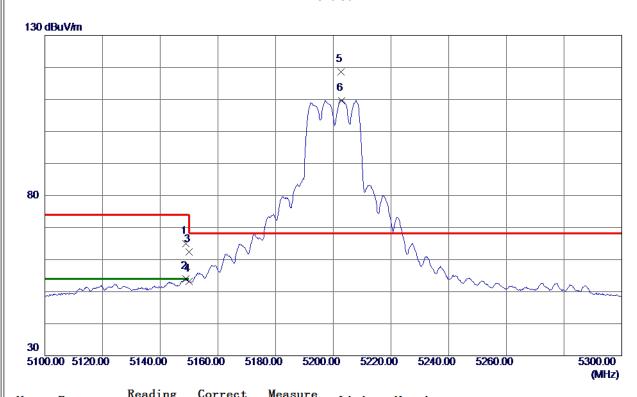
Report No.: BTL-FCCP-2-1902C049

Page 66 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX N (HT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5148.8000	49. 24	15. 73	64.97	74.00	-9.03	Peak	
2	5148.8000	38. 19	15. 73	53. 92	54.00	-0.08	AVG	
3	5150.0000	46.64	15.74	62. 38	74.00	-11.62	Peak	
4	5150.0000	37. 37	15. 74	53. 11	54.00	-0.89	AVG	
5 *	5202.6000	102.74	15. 84	118. 58	68. 30	50. 28	Peak	No Limit
6	5202.8000	93. 85	15.84	109.69	999.00	-889. 31	AVG	No Limit

REMARKS:

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

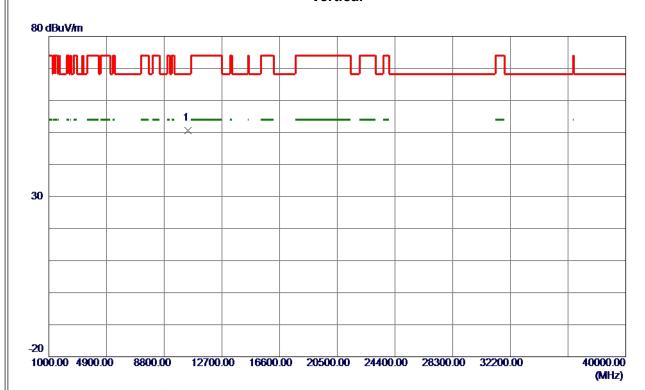
Report No.: BTL-FCCP-2-1902C049

Page 67 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10395, 6000	39 92	10.63	50, 55	68, 30	-17, 75	Peak	

REMARKS:

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

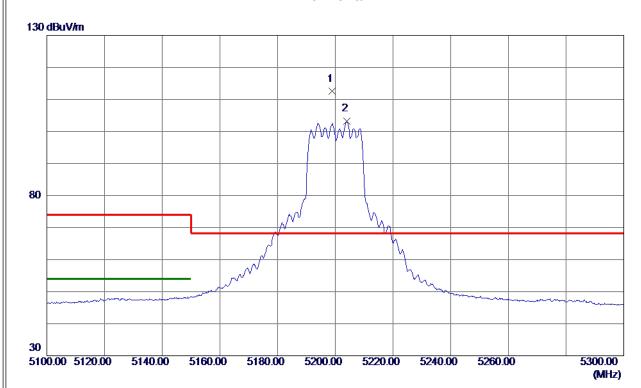
Report No.: BTL-FCCP-2-1902C049

Page 68 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX N (HT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5198.9000	96. 67	15. 83	112. 50	68.30	44. 20	Peak	No Limit
2	5203. 9000	87. 29	15. 84	103. 13	999.00	-895. 87	AVG	No Limit

REMARKS:

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

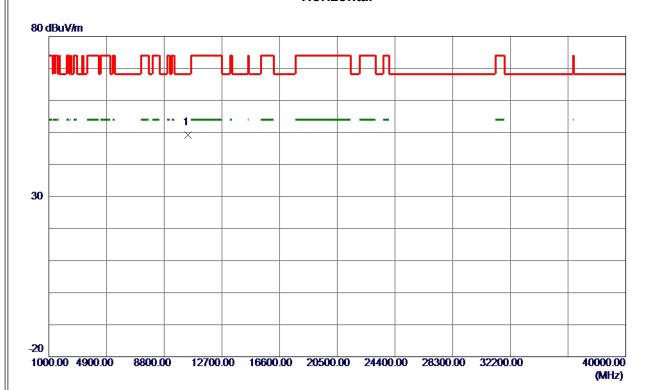
Report No.: BTL-FCCP-2-1902C049

Page 69 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10394. 3000	38. 57	10.62	49. 19	68. 30	-19. 11	Peak	

REMARKS:

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

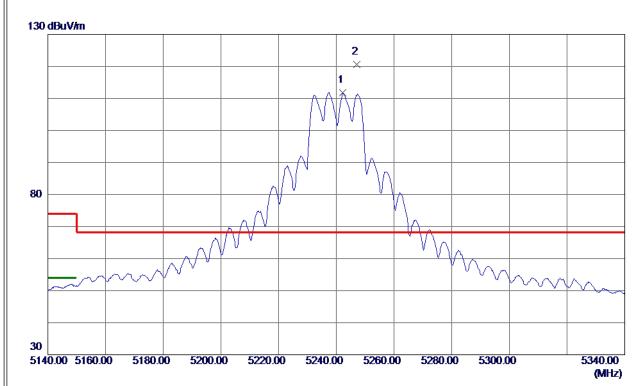
Report No.: BTL-FCCP-2-1902C049

Page 70 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5242. 3000	95. 80	15. 92	111.72	999.00	-887. 28	AVG	No Limit
2 *	5247. 1000	104.70	15. 93	120.63	68. 30	52. 33	Peak	No Limit

REMARKS:

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

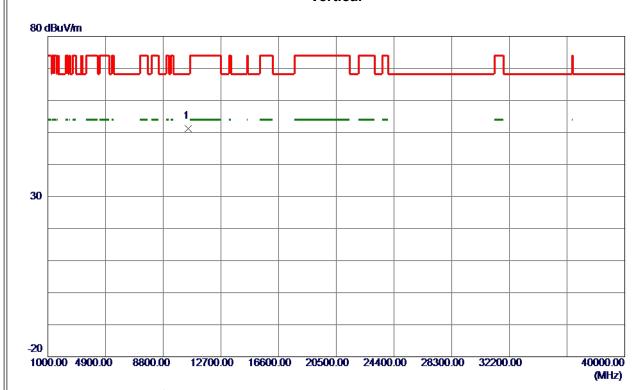
Report No.: BTL-FCCP-2-1902C049

Page 71 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10475. 5000	40. 48	10.73	51. 21	68. 30	-17. 09	Peak	

REMARKS:

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

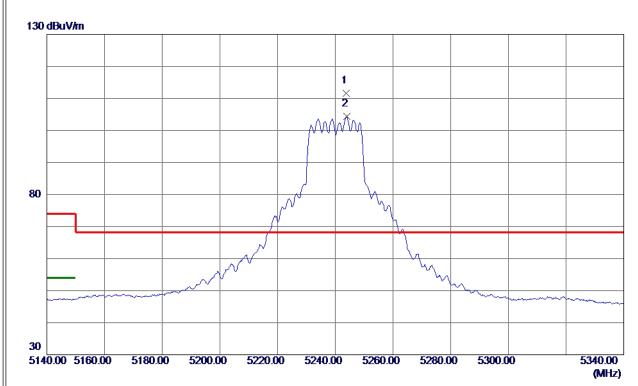
Report No.: BTL-FCCP-2-1902C049

Page 72 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5243.7000	95. 73	15. 92	111.65	68.30	43.35	Peak	No Limit
2	5244.0000	88. 51	15. 92	104. 43	999.00	-894. 57	AVG	No Limit

REMARKS:

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

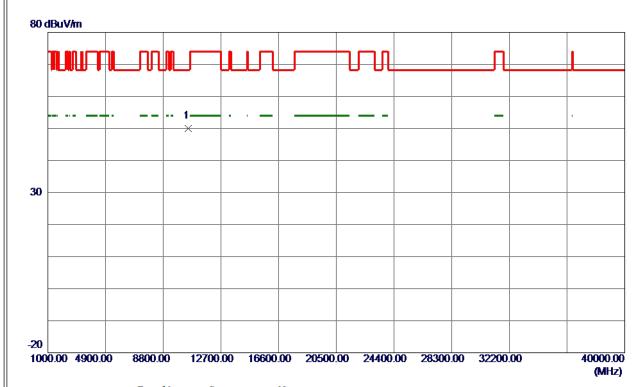
Report No.: BTL-FCCP-2-1902C049

Page 73 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10485. 4500	39. 24	10.74	49. 98	68. 30	-18. 32	Peak	

REMARKS:

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

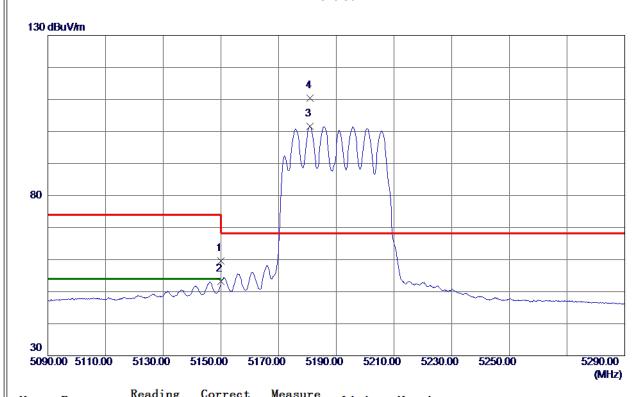
Report No.: BTL-FCCP-2-1902C049

Page 74 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz



No.	Freq.	Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150. 0000	43.90	15.74	59.64	74.00	-14. 36	Peak	
2	5150.0000	37. 37	15.74	53. 11	54.00	-0.89	AVG	
3	5180. 8000	85. 80	15.80	101.60	999.00	-897.40	AVG	No Limit
4 *	5181. 0000	94.69	15.80	110.49	68. 30	42. 19	Peak	No Limit

REMARKS:

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

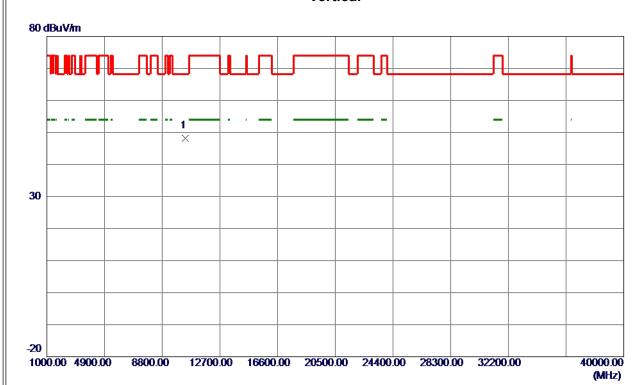
Report No.: BTL-FCCP-2-1902C049

Page 75 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10368, 9000	37. 57	10. 59	48. 16	68. 30	-20, 14	Peak	

REMARKS:

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

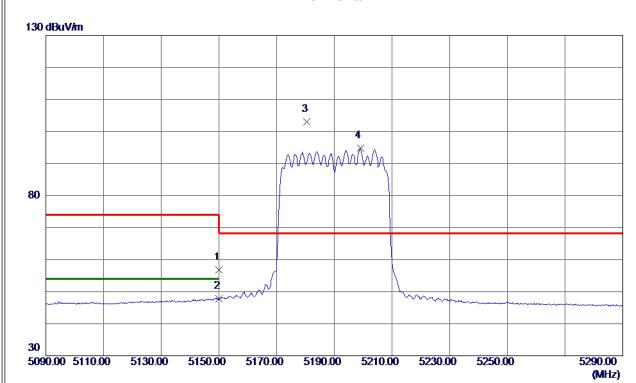
Report No.: BTL-FCCP-2-1902C049

Page 76 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	41. 12	15. 74	56.86	74.00	-17. 14	Peak	
2	5150.0000	31. 98	15. 74	47.72	54.00	-6. 28	AVG	
3 *	5180. 4000	87. 26	15.80	103.06	68.30	34.76	Peak	No Limit
4	5199. 0000	78. 89	15. 83	94.72	999.00	-904. 28	AVG	No Limit

REMARKS:

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

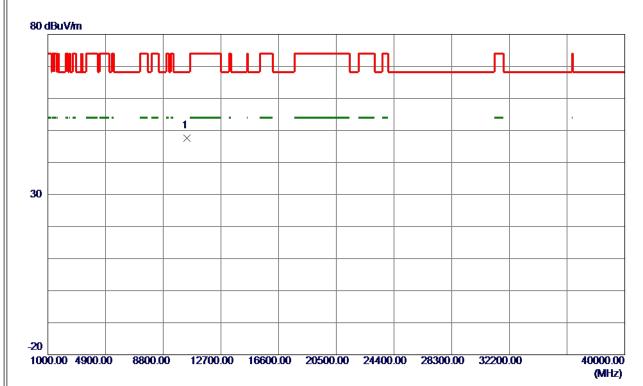
Report No.: BTL-FCCP-2-1902C049

Page 77 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10383. 0000	36. 99	10.61	47.60	68. 30	-20. 70	Peak	

REMARKS:

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

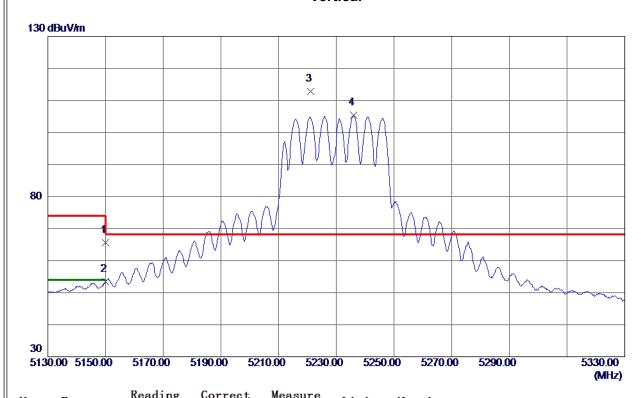
Report No.: BTL-FCCP-2-1902C049

Page 78 of 338 Report Version: R01





Orthogonal Axis	lx
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	49. 93	15. 74	65. 67	74.00	-8. 33	Peak	
2	5150.0000	37.62	15. 74	53. 36	54.00	-0.64	AVG	
3 *	5221. 2000	97.00	15.88	112.88	68.30	44.58	Peak	No Limit
4	5236.0000	89. 53	15. 91	105. 44	999.00	-893. 56	AVG	No Limit

REMARKS:

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

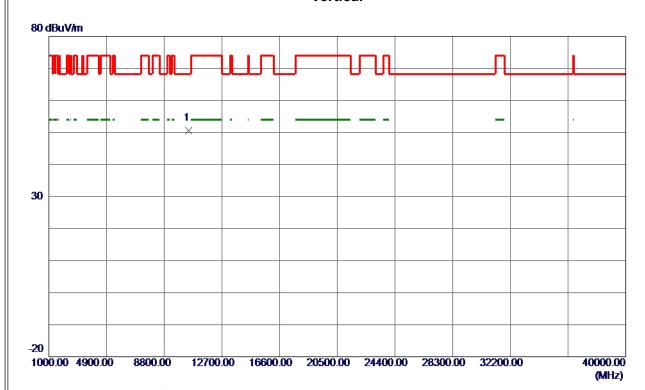
Report No.: BTL-FCCP-2-1902C049

Page 79 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10459. 1000	39. 97	10.71	50.68	68. 30	-17.62	Peak	

REMARKS:

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

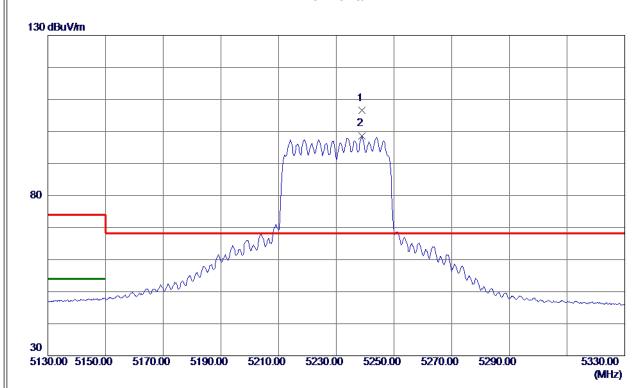
Report No.: BTL-FCCP-2-1902C049

Page 80 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5238.9000	90. 59	15. 91	106. 50	68.30	38. 20	Peak	No Limit
2	5238. 9000	82.65	15. 91	98. 56	999.00	-900.44	AVG	No Limit

REMARKS:

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

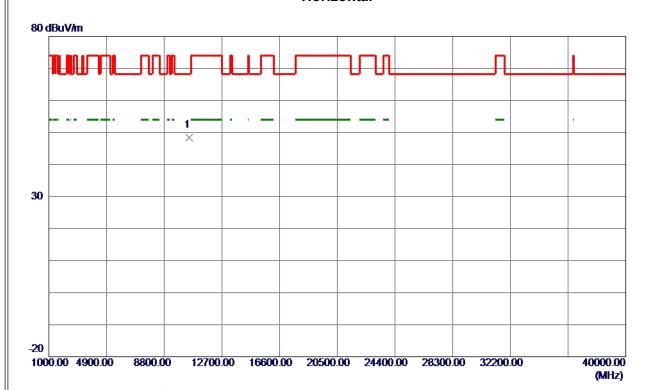
Report No.: BTL-FCCP-2-1902C049

Page 81 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10474. 3500	37.64	10.73	48. 37	68. 30	-19. 93	Peak	

REMARKS:

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

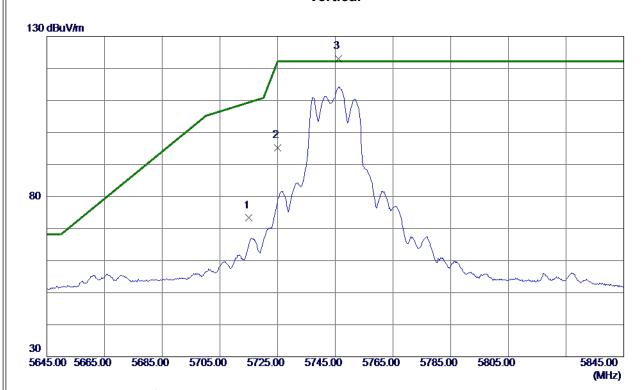
Report No.: BTL-FCCP-2-1902C049

Page 82 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX A Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	56. 67	16.63	73. 30	109.40	-36. 10	Peak	
2	5725.0000	78. 60	16.64	95. 24	122. 20	-26. 96	Peak	
3 *	5746. 2000	106. 39	16. 66	123. 05	122. 20	0.85	Peak	No Limit

REMARKS:

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

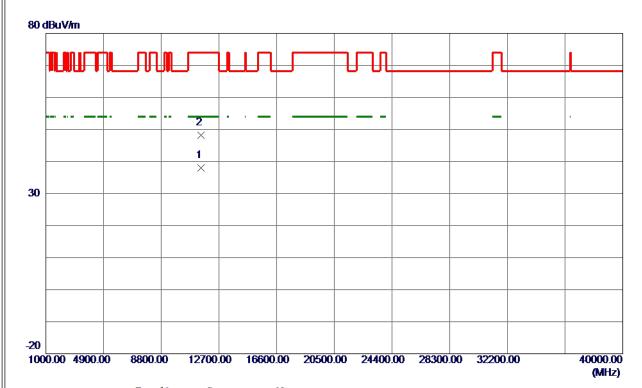
Report No.: BTL-FCCP-2-1902C049

Page 83 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11492. 5000	26. 37	11. 67	38. 04	54.00	-15.96	AVG	
2	11501. 4000	36. 48	11. 68	48. 16	74.00	-25.84	Peak	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 84 of 338 Report Version: R01





<u></u>	
Orthogonal Axis	X
Test Mode	UNII-3 TX A Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	44. 28	16. 63	60. 91	109.40	-48. 49	Peak	
2	5725. 0000	54.60	16. 64	71. 24	122. 20	-50.96	Peak	
3 *	5746. 7000	99. 78	16. 66	116. 44	122. 20	-5. 76	Peak	No Limit

REMARKS:

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

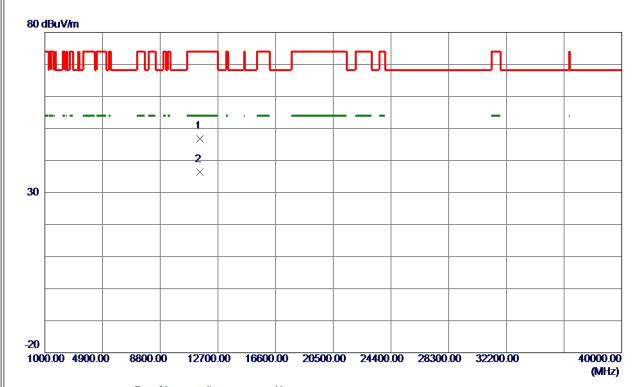
Report No.: BTL-FCCP-2-1902C049

Page 85 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11484.4500	35. 06	11.66	46. 72	74.00	-27. 28	Peak	
2 *	11485. 5500	24.72	11.66	36. 38	54.00	-17.62	AVG	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 86 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX A Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5786. 9000	105. 90	16. 70	122.60	122. 20	0.40	Peak	No Limit

REMARKS:

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

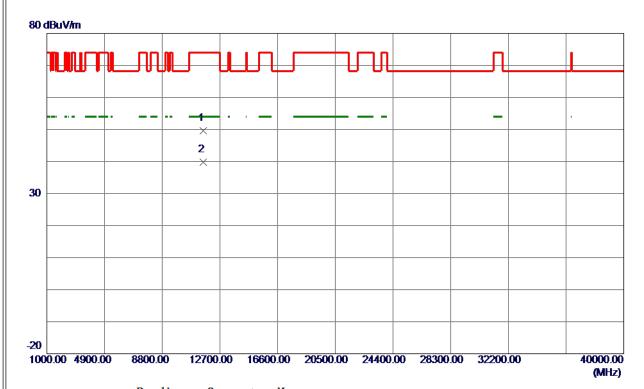
Report No.: BTL-FCCP-2-1902C049

Page 87 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11572. 2000	37.82	11.77	49. 59	74.00	-24.41	Peak	
2 *	11572.6500	28. 11	11. 77	39. 88	54.00	-14. 12	AVG	

REMARKS:

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

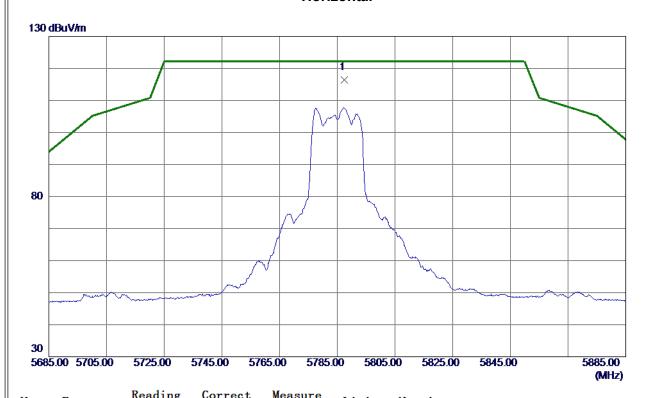
Report No.: BTL-FCCP-2-1902C049

Page 88 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX A Mode 5785 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5787. 4000	99.72	16. 70	116. 42	122. 20	-5. 78	Peak	No Limit

REMARKS:

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

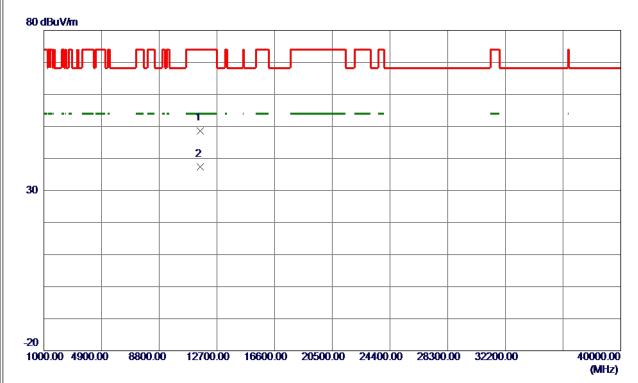
Report No.: BTL-FCCP-2-1902C049

Page 89 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11564.0000	36. 94	11.76	48.70	74.00	-25.30	Peak	
2 *	11573.8500	25. 57	11.77	37. 34	54.00	-16.66	AVG	

REMARKS:

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

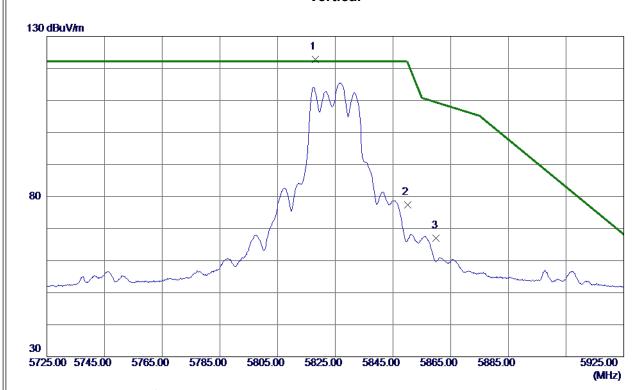
Report No.: BTL-FCCP-2-1902C049

Page 90 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5818. 0000	106. 12	16. 73	122.85	122. 20	0.65	Peak	No Limit
2	5850.0000	60. 55	16. 76	77.31	122. 20	-44.89	Peak	
3	5860.0000	50. 27	16. 77	67.04	109.40	-42.36	Peak	

REMARKS:

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

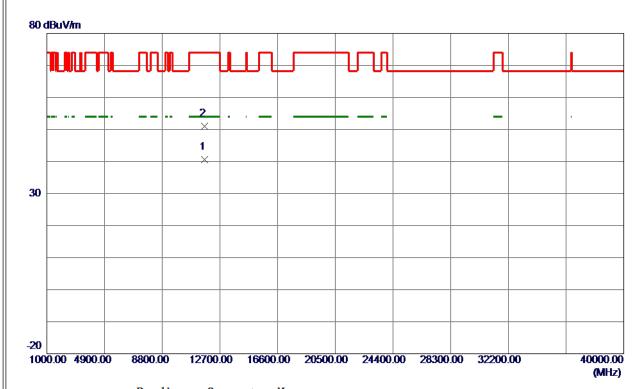
Report No.: BTL-FCCP-2-1902C049

Page 91 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11652. 9000	28. 81	11.86	40.67	54.00	-13. 33	AVG	
2	11653.6000	39. 19	11.86	51. 0 5	74.00	-22.95	Peak	

REMARKS:

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

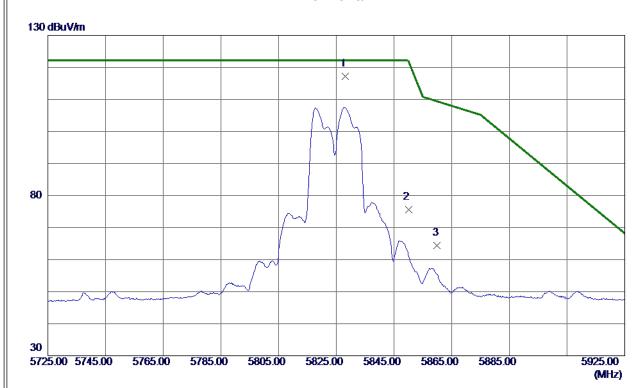
Report No.: BTL-FCCP-2-1902C049

Page 92 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5828. 1000	100.40	16. 74	117. 14	122. 20	-5. 06	Peak	No Limit
2	5850.0000	58. 78	16. 76	75. 54	122. 20	-46.66	Peak	
3	5860. 0000	47.62	16. 77	64. 39	109.40	-45.01	Peak	

REMARKS:

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

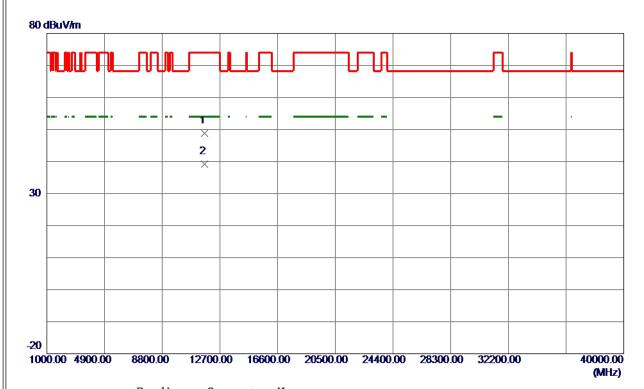
Report No.: BTL-FCCP-2-1902C049

Page 93 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11652. 9500	36. 87	11.86	48.73	74.00	-25. 27	Peak	
2 *	11653.0000	27. 38	11.86	39. 24	54.00	-14.76	AVG	

REMARKS:

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

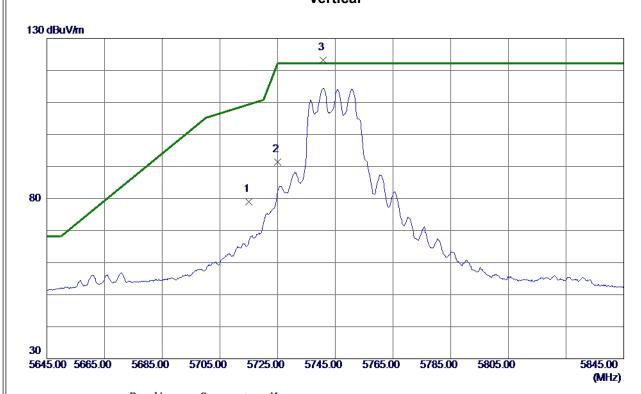
Report No.: BTL-FCCP-2-1902C049

Page 94 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	62.44	16.63	79. 07	109.40	-30. 33	Peak	
2	5725. 0000	74. 67	16.64	91. 31	122. 20	-30.89	Peak	
3 *	5740. 7000	106. 63	16. 66	123. 29	122. 20	1. 09	Peak	No Limit

REMARKS:

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

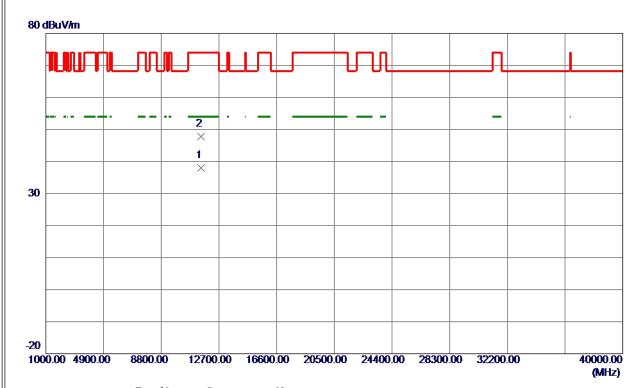
Report No.: BTL-FCCP-2-1902C049

Page 95 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11488. 1000	26. 28	11.66	37.94	54.00	-16.06	AVG	
2	11493. 2000	36. 13	11. 67	47.80	74.00	-26. 20	Peak	

REMARKS:

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

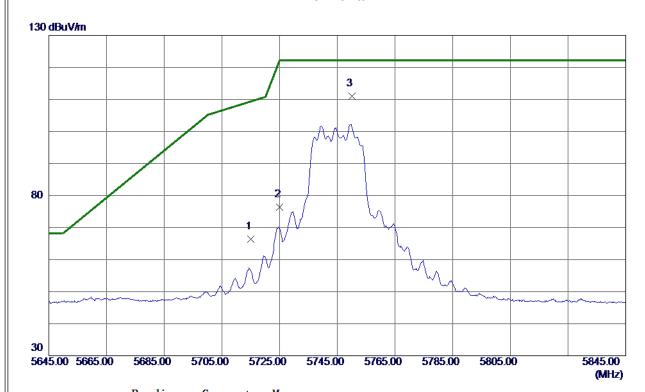
Report No.: BTL-FCCP-2-1902C049

Page 96 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX N (HT20) Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	49.80	16. 63	66. 43	109.40	-42.97	Peak	
2	5725. 0000	59. 69	16. 64	76. 33	122. 20	-45.87	Peak	
3 *	5750. 0000	94. 39	16. 66	111. 05	122. 20	-11. 15	Peak	No Limit

REMARKS:

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

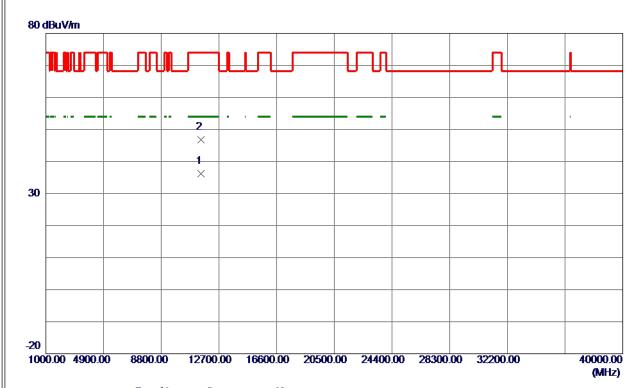
Report No.: BTL-FCCP-2-1902C049

Page 97 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11489. 2000	24. 50	11.66	36. 16	54.00	-17.84	AVG	
2	11499. 9000	35. 10	11. 68	46. 78	74.00	-27. 22	Peak	

REMARKS:

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

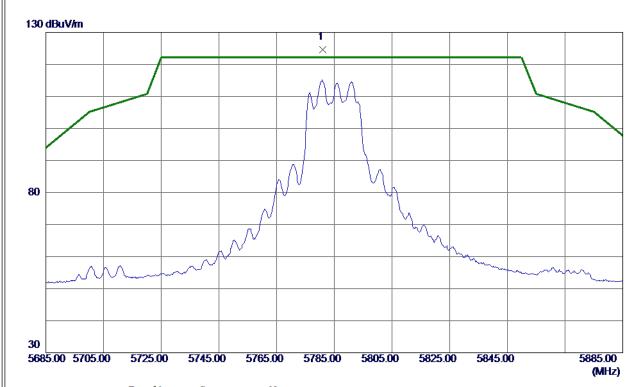
Report No.: BTL-FCCP-2-1902C049

Page 98 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX N (HT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5780. 9000	107. 93	16. 69	124.62	122. 20	2. 42	Peak	No Limit

REMARKS:

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

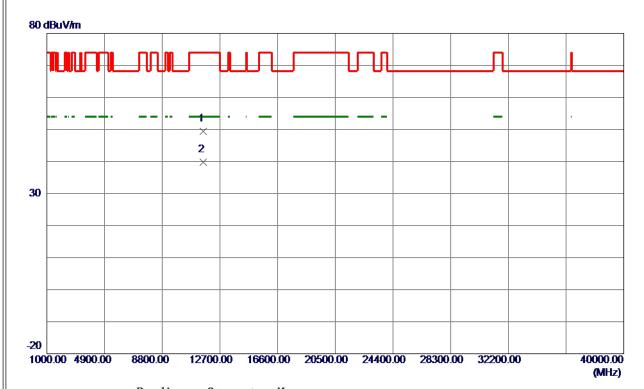
Report No.: BTL-FCCP-2-1902C049

Page 99 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11561. 9000	37.65	11.75	49. 40	74.00	-24.60	Peak	
2 *	11568. 3500	27. 96	11.76	39. 72	54.00	-14. 28	AVG	

REMARKS:

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

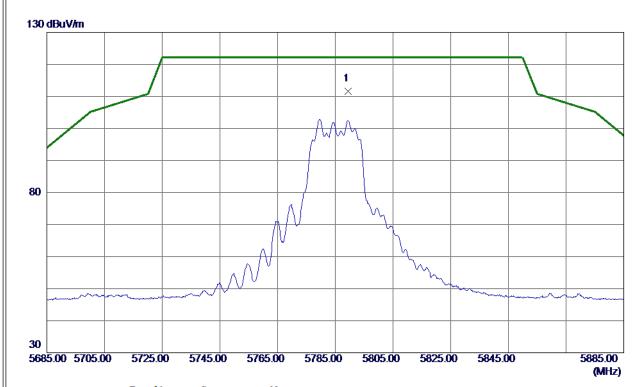
Report No.: BTL-FCCP-2-1902C049

Page 100 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX N (HT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5789. 4000	94. 91	16. 70	111.61	122. 20	-10. 59	Peak	No Limit

REMARKS:

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

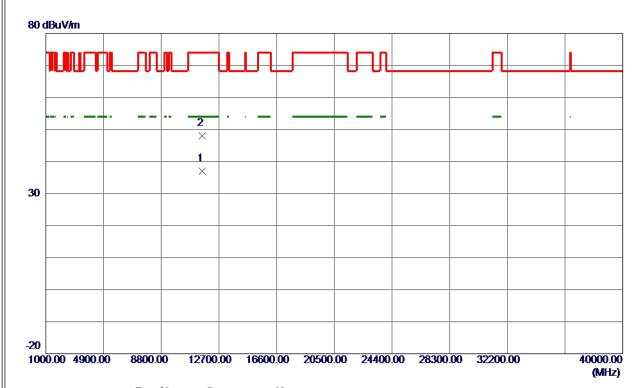
Report No.: BTL-FCCP-2-1902C049

Page 101 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11568. 1000	25. 27	11.76	37. 03	54.00	-16. 97	AVG	
2	11576. 6000	36. 20	11. 77	47.97	74.00	-26. 03	Peak	

REMARKS:

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

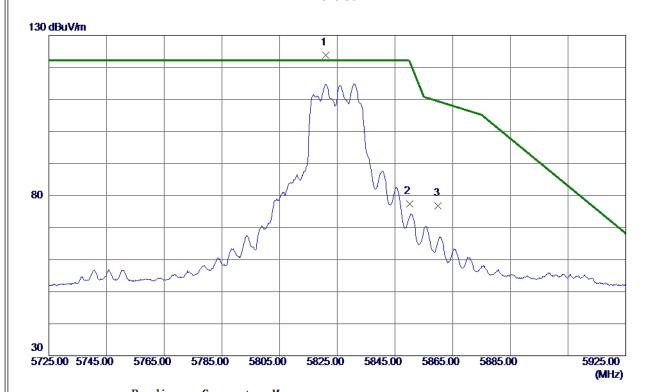
Report No.: BTL-FCCP-2-1902C049

Page 102 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX N (HT20) Mode 5825 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5821.0000	107.01	16. 73	123.74	122. 20	1. 54	Peak	No Limit
2	5850.0000	60.73	16. 76	77.49	122. 20	-44.71	Peak	
3	5860. 0000	60.06	16. 77	76. 83	109.40	-32.57	Peak	

REMARKS:

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

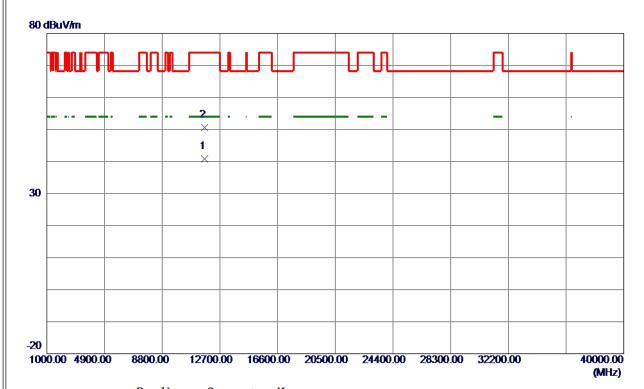
Report No.: BTL-FCCP-2-1902C049

Page 103 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11648. 2500	28.88	11.86	40.74	54.00	-13. 26	AVG	
2	11657.9000	38. 68	11.87	50. 55	74.00	-23. 45	Peak	

REMARKS:

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

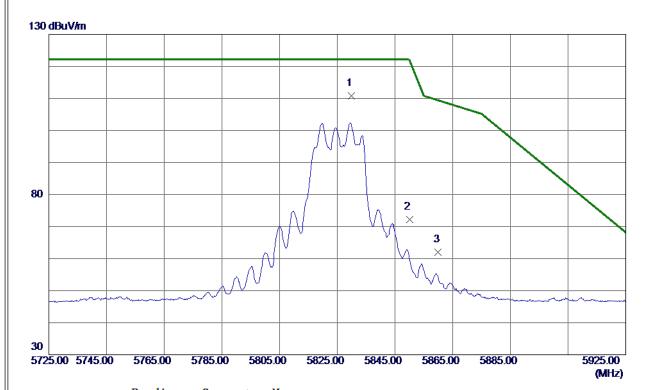
Report No.: BTL-FCCP-2-1902C049

Page 104 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5829. 8000	94.06	16. 74	110.80	122. 20	-11.40	Peak	No Limit
2	5850.0000	55. 35	16. 76	72. 11	122. 20	-50.09	Peak	
3	5860. 0000	45. 24	16. 77	62. 01	109.40	-47. 39	Peak	

REMARKS:

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

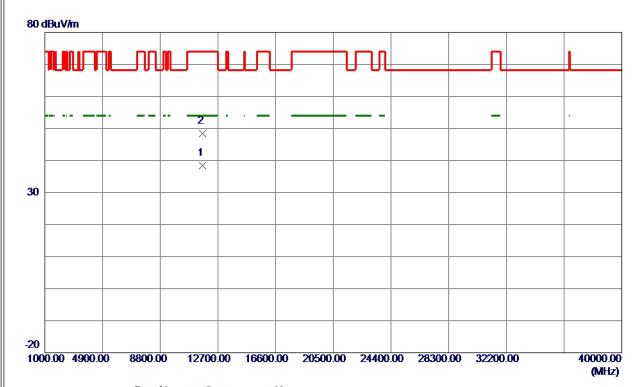
Report No.: BTL-FCCP-2-1902C049

Page 105 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX N (HT20) Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11648.6500	26. 59	11.86	38. 45	54.00	-15. 55	AVG	
2	11654. 4000	36. 52	11. 87	48. 39	74.00	-25. 61	Peak	

REMARKS:

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

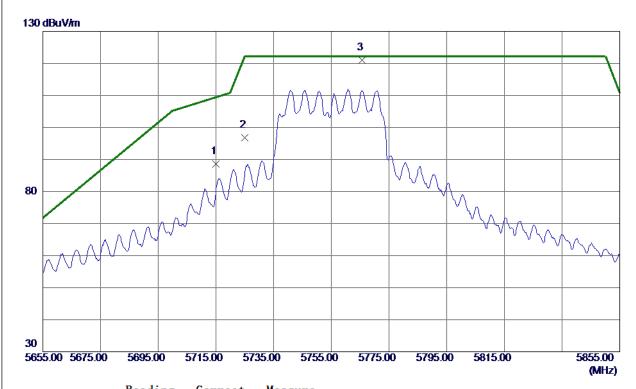
Report No.: BTL-FCCP-2-1902C049

Page 106 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	71.95	16. 63	88. 58	109.40	-20.82	Peak	
2	5725. 0000	80. 21	16. 64	96. 85	122. 20	-25. 35	Peak	
3 *	5765. 7000	104. 29	16. 68	120. 97	122. 20	-1. 23	Peak	No Limit

REMARKS:

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

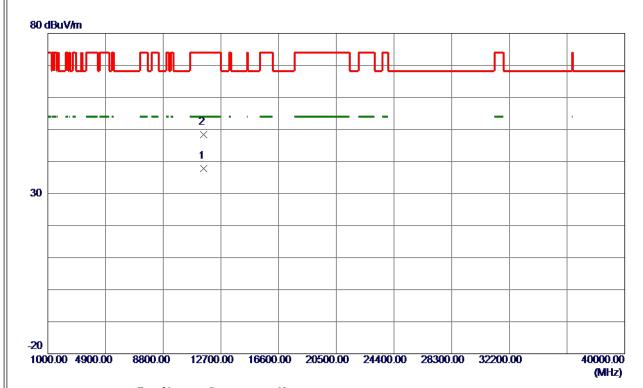
Report No.: BTL-FCCP-2-1902C049

Page 107 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11512. 9000	26. 13	11.70	37.83	54.00	-16. 17	AVG	
2	11518. 1500	36. 76	11. 70	48. 46	74.00	-25. 54	Peak	

REMARKS:

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

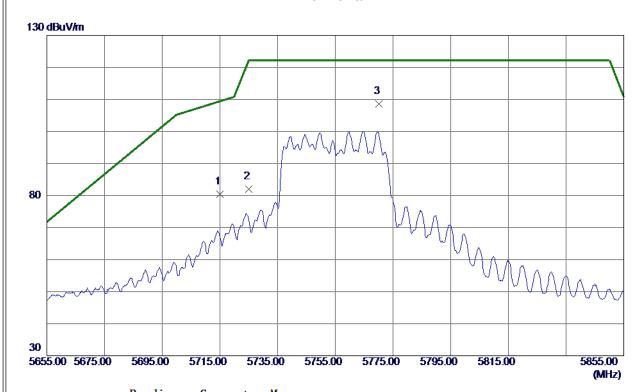
Report No.: BTL-FCCP-2-1902C049

Page 108 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	63.83	16.63	80.46	109.40	-28. 94	Peak	
2	5725.0000	65. 36	16.64	82.00	122. 20	-40. 20	Peak	
3 *	5770. 1000	91. 96	16. 68	108.64	122. 20	-13. 56	Peak	No Limit

REMARKS:

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

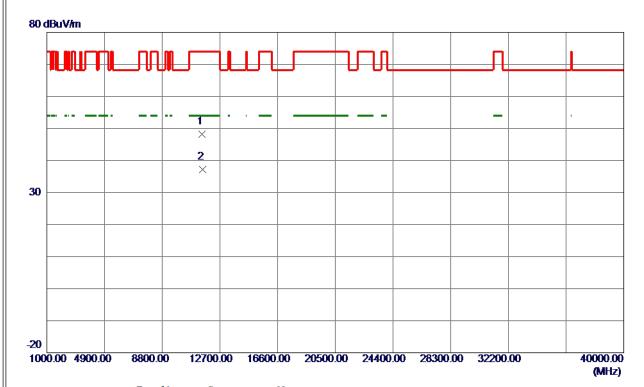
Report No.: BTL-FCCP-2-1902C049

Page 109 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11501.7000	36. 47	11.68	48. 15	74.00	-25.85	Peak	
2 *	11513.6500	25. 49	11. 70	37. 19	54.00	-16.81	AVG	

REMARKS:

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

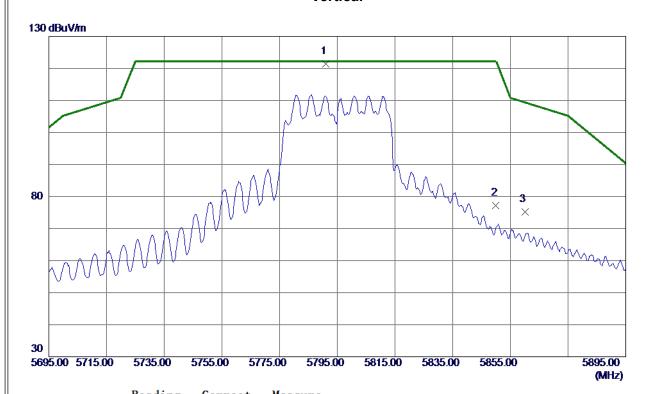
Report No.: BTL-FCCP-2-1902C049

Page 110 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5791. 0000	104.65	16. 70	121.35	122. 20	-0. 85	Peak	No Limit
2	5850.0000	60. 36	16. 76	77. 12	122. 20	-45.08	Peak	
3	5860. 0000	58. 41	16. 77	75. 18	109.40	-34. 22	Peak	

REMARKS:

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

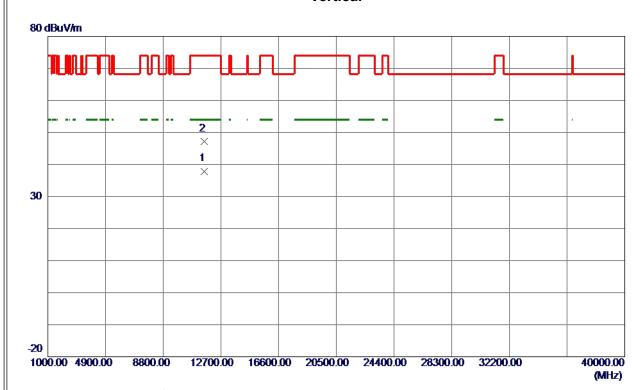
Report No.: BTL-FCCP-2-1902C049

Page 111 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11583.0000	26. 12	11. 78	37. 90	54.00	-16. 10	AVG	
2	11584. 0000	35. 34	11. 78	47. 12	74.00	-26.88	Peak	

REMARKS:

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

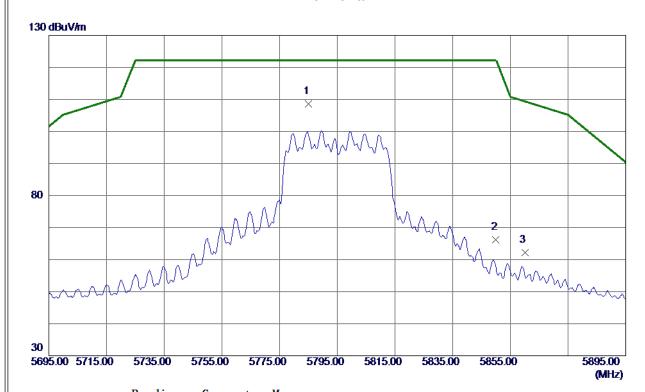
Report No.: BTL-FCCP-2-1902C049

Page 112 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX N (HT40) Mode 5795 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5784. 9000	91.86	16. 70	108. 56	122. 20	-13.64	Peak	No Limit
2	5850. 0000	49. 37	16. 76	66. 13	122. 20	-56. 07	Peak	
3	5860. 0000	45. 38	16. 77	62. 15	109.40	-47.25	Peak	

REMARKS:

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

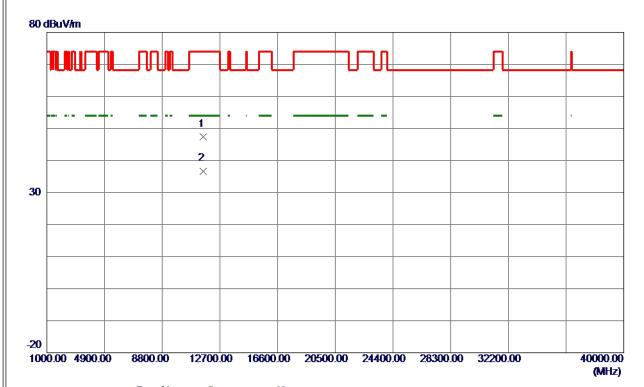
Report No.: BTL-FCCP-2-1902C049

Page 113 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11571.7500	35. 55	11.77	47. 32	74.00	-26.68	Peak	
2 *	11574.0500	24. 93	11. 77	36. 70	54.00	-17.30	AVG	

REMARKS:

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

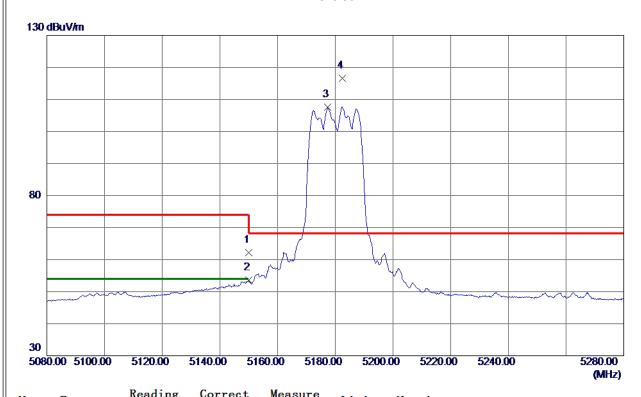
Report No.: BTL-FCCP-2-1902C049

Page 114 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	46. 50	15. 74	62. 24	74.00	-11. 76	Peak	
2	5150.0000	37.82	15. 74	53. 56	54.00	-0.44	AVG	
3	5177. 4000	91.81	15. 79	107.60	999.00	-891.40	AVG	No Limit
4 *	5182. 4000	100.78	15. 80	116. 58	68. 30	48. 28	Peak	No Limit

REMARKS:

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

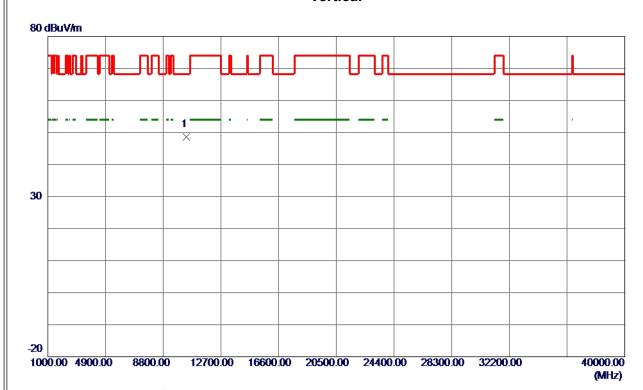
Report No.: BTL-FCCP-2-1902C049

Page 115 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10356. 2000	38. 10	10. 58	48.68	68. 30	-19.62	Peak	

REMARKS:

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

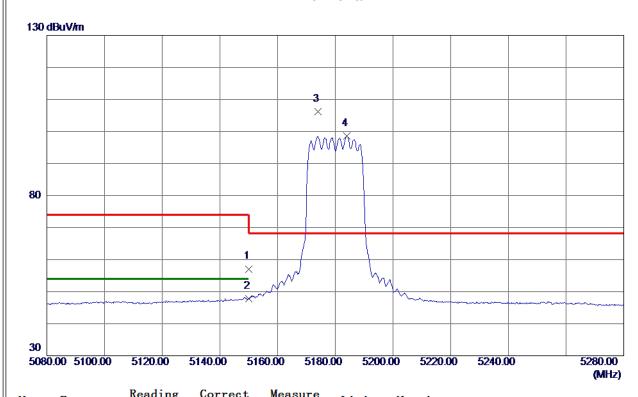
Report No.: BTL-FCCP-2-1902C049

Page 116 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	41. 36	15. 74	57. 10	74.00	-16. 90	Peak	
2	5150.0000	32.06	15. 74	47.80	54.00	-6. 20	AVG	
3 *	5174.0000	90.45	15. 78	106. 23	68.30	37.93	Peak	No Limit
4	5184. 0000	82. 89	15. 80	98. 69	999. 00	-900. 31	AVG	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 117 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10381.0500	37. 27	10.61	47.88	68. 30	-20.42	Peak	

REMARKS:

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

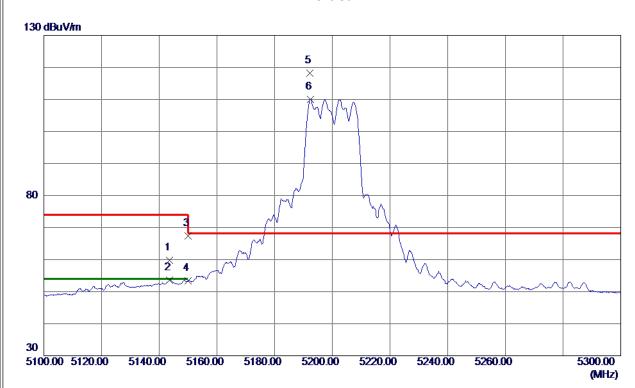
Report No.: BTL-FCCP-2-1902C049

Page 118 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5143. 5000	44. 09	15.72	59.81	74.00	-14. 19	Peak	
2	5143. 5000	37. 88	15.72	53. 60	54.00	-0.40	AVG	
3	5150.0000	51.69	15.74	67.43	74.00	-6. 57	Peak	
4	5150.0000	37. 67	15.74	53.41	54.00	-0. 59	AVG	
5 *	5192. 2000	102.41	15.82	118. 23	68. 30	49. 93	Peak	No Limit
6	5192. 4000	94. 28	15.82	110. 10	999.00	-888. 90	AVG	No Limit

REMARKS:

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

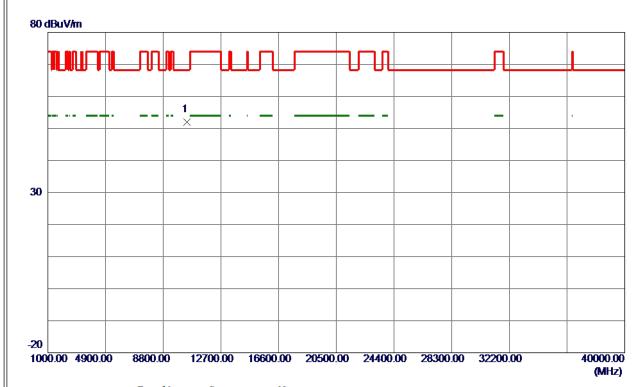
Report No.: BTL-FCCP-2-1902C049

Page 119 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10401, 1000	41.46	10.63	52. 09	68. 30	-16. 21	Peak	

REMARKS:

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

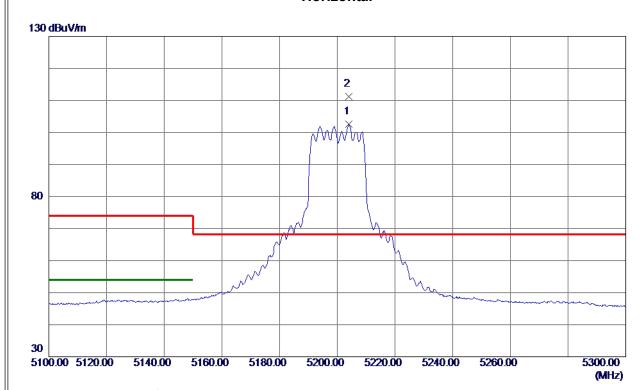
Report No.: BTL-FCCP-2-1902C049

Page 120 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5203.9000	86. 80	15.84	102.64	999.00	-896. 36	AVG	No Limit
2 *	5204. 1000	95. 39	15.84	111. 23	68. 30	42.93	Peak	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 121 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399. 2000	39.82	10.63	50.45	68. 30	-17.85	Peak	

REMARKS:

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

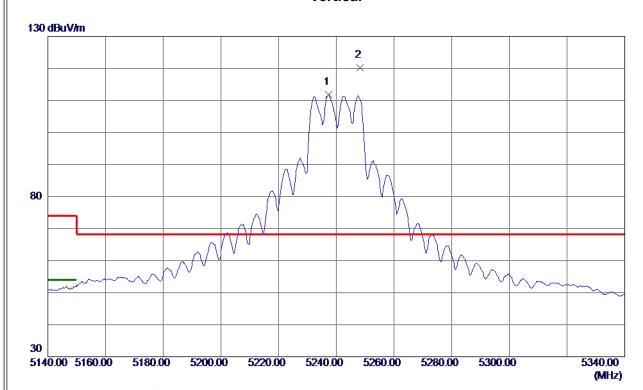
Report No.: BTL-FCCP-2-1902C049

Page 122 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5237. 3000	95. 80	15. 91	111.71	999.00	-887. 29	AVG	No Limit
2 *	5248. 3000	104. 24	15. 93	120. 17	68. 30	51.87	Peak	No Limit

REMARKS:

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

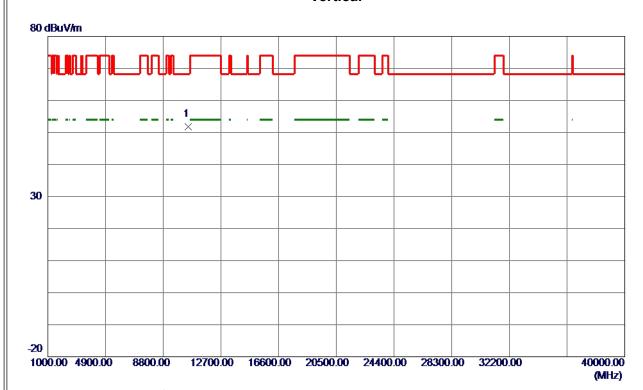
Report No.: BTL-FCCP-2-1902C049

Page 123 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480. 4000	41. 08	10. 73	51. 81	68. 30	-16. 49	Peak	

REMARKS:

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

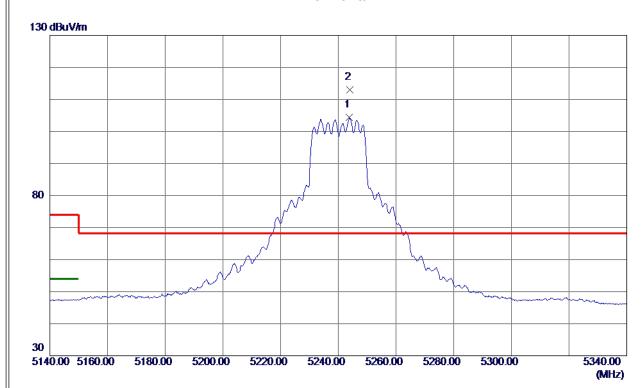
Report No.: BTL-FCCP-2-1902C049

Page 124 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5243.8000	88.42	15. 92	104.34	999.00	-894.66	AVG	No Limit
2 *	5243. 9000	96. 99	15. 92	112. 91	68. 30	44.61	Peak	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 125 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10485. 4000	39. 47	10.74	50. 21	68. 30	-18. 09	Peak	

REMARKS:

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

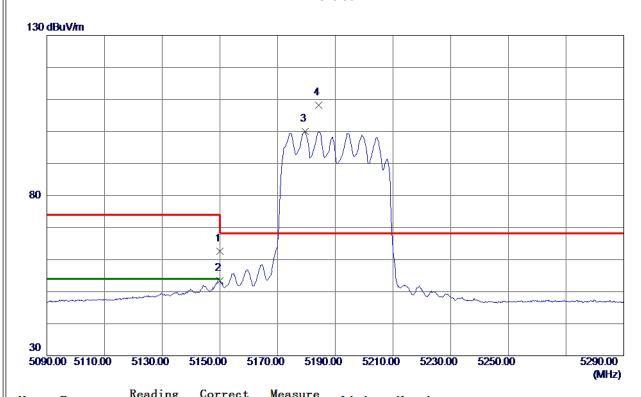
Report No.: BTL-FCCP-2-1902C049

Page 126 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	46.88	15.74	62.62	74.00	-11. 38	Peak	
2	5150.0000	37.71	15.74	53. 45	54.00	-0. 55	AVG	
3	5179. 5000	84. 22	15.80	100.02	999.00	-898. 98	AVG	No Limit
4 *	5184. 2000	92.47	15.80	108. 27	68. 30	39. 97	Peak	No Limit

REMARKS:

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

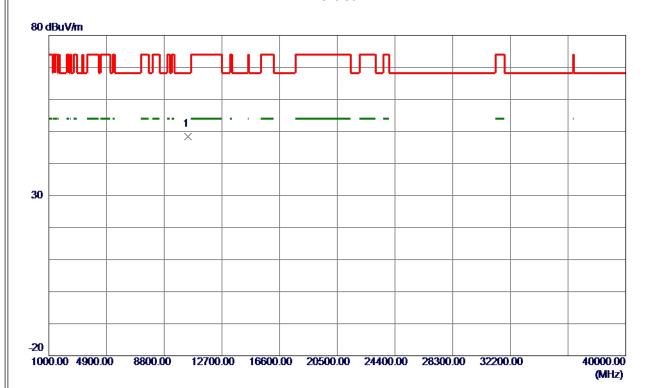
Report No.: BTL-FCCP-2-1902C049

Page 127 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX AC (VHT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10385, 7000	37. 85	10.61	48. 46	68. 30	-19.84	Peak	

REMARKS:

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

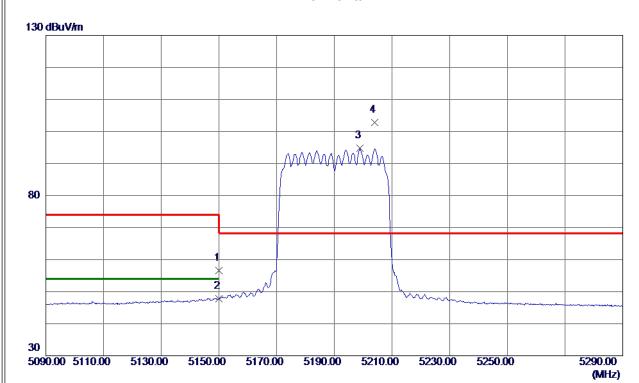
Report No.: BTL-FCCP-2-1902C049

Page 128 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz



No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	40. 91	15. 74	56. 65	74.00	-17. 35	Peak	
2	5150.0000	31. 99	15. 74	47.73	54.00	-6. 27	AVG	
3	5198.9000	78. 95	15.83	94.78	999.00	-904.22	AVG	No Limit
4 *	5204. 1000	86. 93	15. 84	102.77	68.30	34.47	Peak	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 129 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10367. 4000	37. 34	10. 59	47. 93	68. 30	-20. 37	Peak	

REMARKS:

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

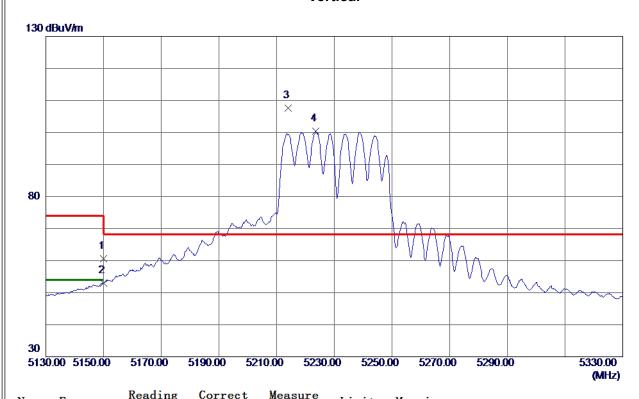
Report No.: BTL-FCCP-2-1902C049

Page 130 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	44.83	15. 74	60. 57	74.00	-13.43	Peak	
2	5150.0000	37. 27	15. 74	53. 01	54.00	-0.99	AVG	
3 *	5214. 1000	91.72	15.86	107. 58	68.30	39. 28	Peak	No Limit
4	5223. 6000	84. 59	15. 88	100. 47	999.00	-898. 53	AVG	No Limit

REMARKS:

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

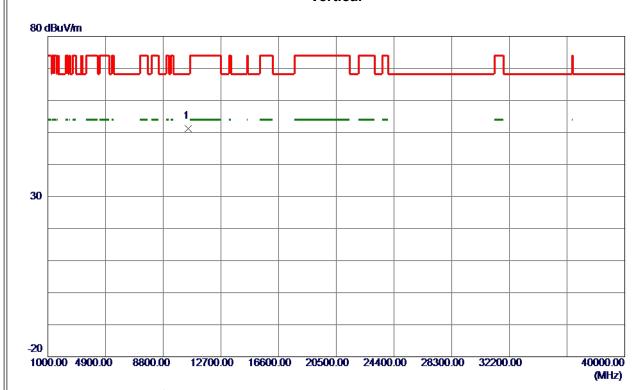
Report No.: BTL-FCCP-2-1902C049

Page 131 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10473. 4500	40. 56	10.73	51. 29	68. 30	-17.01	Peak	

REMARKS:

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

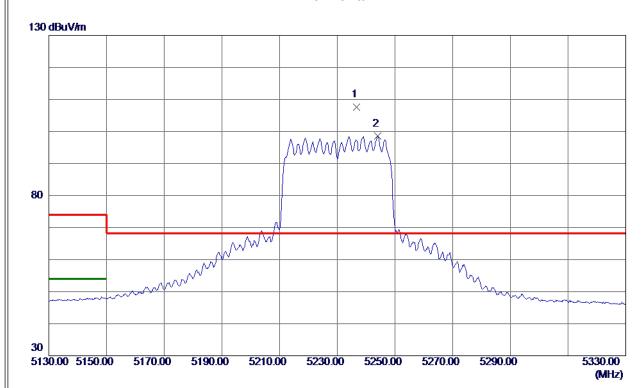
Report No.: BTL-FCCP-2-1902C049

Page 132 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5236.6000	91.77	15. 91	107.68	68.30	39. 38	Peak	No Limit
2	5244. 1000	82. 58	15. 92	98. 50	999.00	-900. 50	AVG	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 133 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10469. 9500	39. 19	10.72	49. 91	68. 30	-18. 39	Peak	

REMARKS:

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

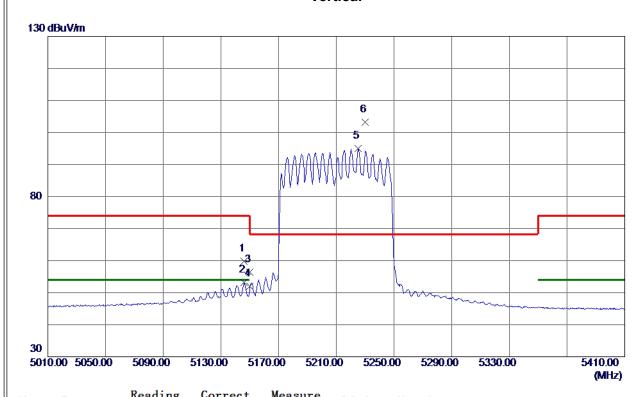
Report No.: BTL-FCCP-2-1902C049

Page 134 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5146. 2000	44.00	15. 73	59. 73	74.00	-14.27	Peak	
2	5146. 2000	37. 38	15. 73	53. 11	54.00	-0.89	AVG	
3	5150.0000	40.72	15.74	56. 46	74.00	-17.54	Peak	
4	5150.0000	36. 18	15. 74	51. 92	54.00	-2. 0 8	AVG	
5	5225. 0000	79. 14	15. 89	95. 03	999.00	-903. 97	AVG	No Limit
6 *	5230. 2000	87. 32	15. 90	103. 22	68. 30	34.92	Peak	No Limit

REMARKS:

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

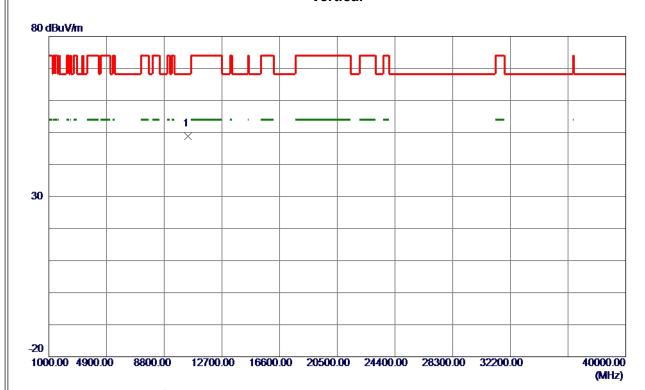
Report No.: BTL-FCCP-2-1902C049

Page 135 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10408. 2000	38. 15	10.64	48.79	68. 30	-19. 51	Peak	

REMARKS:

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

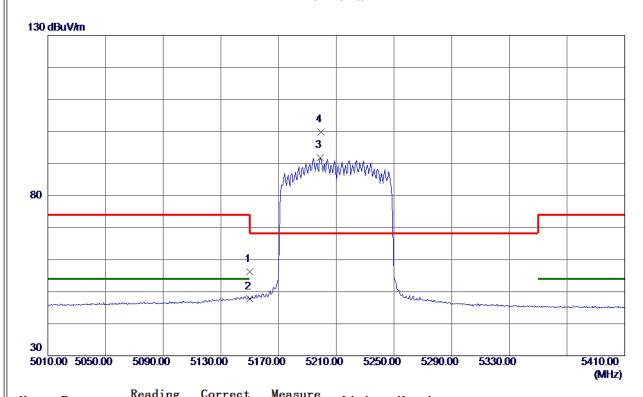
Report No.: BTL-FCCP-2-1902C049

Page 136 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150. 0000	40.41	15.74	56. 15	74.00	-17.85	Peak	
2	5150. 0000	31.96	15.74	47.70	54.00	-6. 30	AVG	
3	5199. 0000	75. 96	15.83	91.79	999.00	-907.21	AVG	No Limit
4 *	5199. 4000	83. 98	15.83	99.81	68. 30	31. 51	Peak	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 137 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10395.7500	36. 81	10.63	47.44	68. 30	-20.86	Peak	

REMARKS:

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

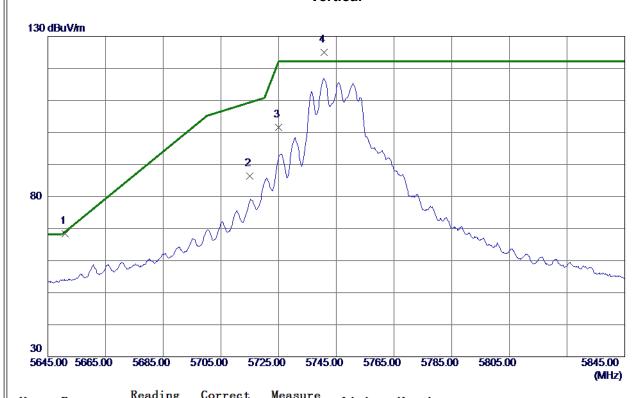
Report No.: BTL-FCCP-2-1902C049

Page 138 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5651. 1000	51.88	16. 57	68. 45	69.01	-0. 56	Peak	
2	5715. 0000	69. 85	16. 63	86. 48	109.40	-22.92	Peak	
3	5725. 0000	84.94	16.64	101. 58	122. 20	-20.62	Peak	
4 *	5740. 7000	108. 30	16. 66	124. 96	122. 20	2. 76	Peak	No Limit

REMARKS:

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

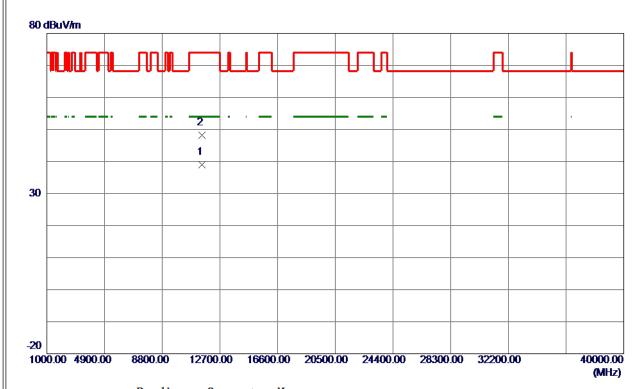
Report No.: BTL-FCCP-2-1902C049

Page 139 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11488. 2500	27. 34	11.66	39.00	54.00	-15.00	AVG	
2	11492. 4000	36. 47	11. 67	48. 14	74.00	-25. 86	Peak	

REMARKS:

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

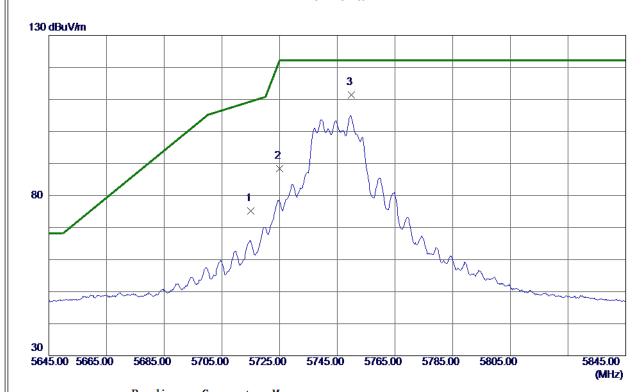
Report No.: BTL-FCCP-2-1902C049

Page 140 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	58. 48	16. 63	75. 11	109.40	-34. 29	Peak	
2	5725. 0000	71.69	16.64	88. 33	122. 20	-33.87	Peak	
3 *	5749. 8000	94.65	16. 66	111. 31	122. 20	-10.89	Peak	No Limit

REMARKS:

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

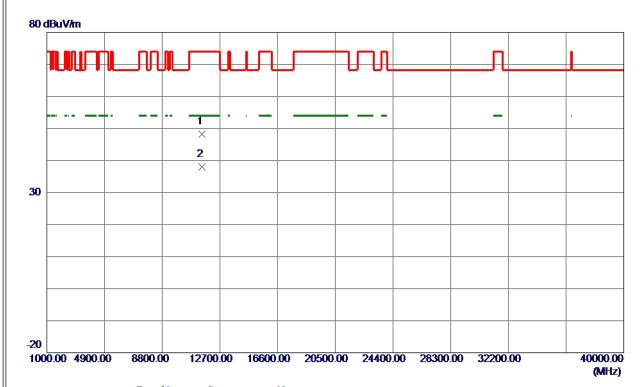
Report No.: BTL-FCCP-2-1902C049

Page 141 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11483.9500	36. 63	11.66	48. 29	74.00	-25.71	Peak	
2 *	11488.8500	26. 29	11.66	37. 95	54.00	-16. 05	AVG	

REMARKS:

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

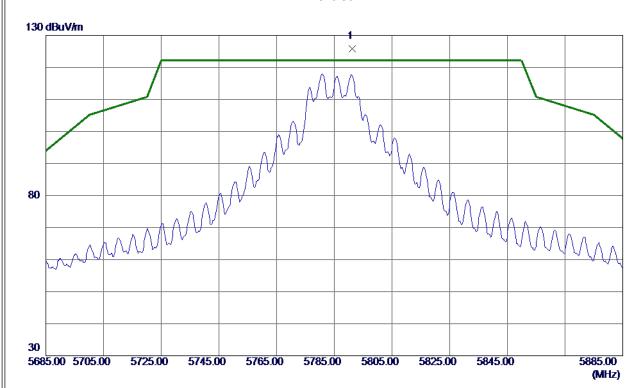
Report No.: BTL-FCCP-2-1902C049

Page 142 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5791. 2000	109. 17	16. 70	125. 87	122. 20	3. 67	Peak	No Limit

REMARKS:

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

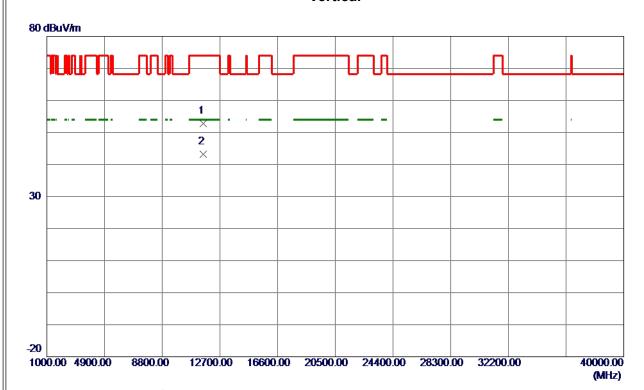
Report No.: BTL-FCCP-2-1902C049

Page 143 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11568. 1500	41.08	11. 76	52.84	74.00	-21. 16	Peak	
2 *	11573. 0500	31. 45	11. 77	43. 22	54.00	-10.78	AVG	

REMARKS:

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

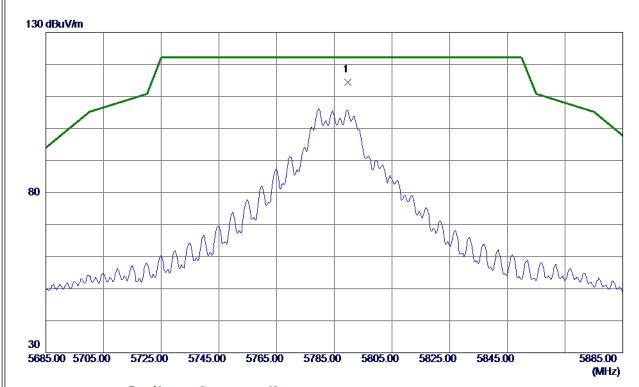
Report No.: BTL-FCCP-2-1902C049

Page 144 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX AC (VHT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5789. 6000	97. 75	16. 70	114. 45	122. 20	-7. 75	Peak	No Limit

REMARKS:

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

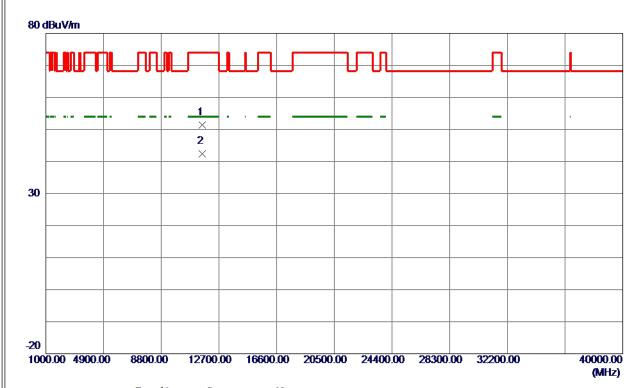
Report No.: BTL-FCCP-2-1902C049

Page 145 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11568.6000	39. 69	11.76	51.45	74.00	-22.55	Peak	
2 *	11570.8500	30. 54	11. 77	42. 31	54.00	-11.69	AVG	

REMARKS:

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

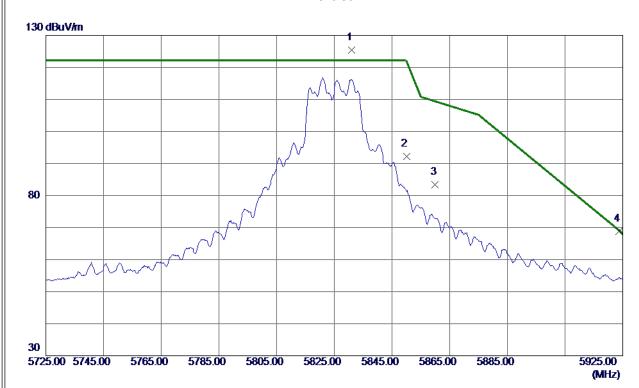
Report No.: BTL-FCCP-2-1902C049

Page 146 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5831. 1000	108.74	16.74	125. 48	122. 20	3. 28	Peak	No Limit
2	5850.0000	75. 43	16. 76	92. 19	122. 20	-30.01	Peak	
3	5860.0000	66. 70	16.77	83.47	109.40	-25.93	Peak	
4	5923. 7000	51.99	16.83	68. 82	69. 16	-0.34	Peak	

REMARKS:

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

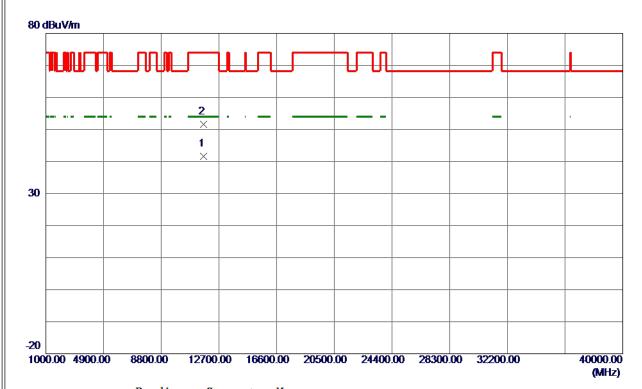
Report No.: BTL-FCCP-2-1902C049

Page 147 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11648. 2500	29. 68	11.86	41.54	54.00	-12. 46	AVG	
2	11649. 2000	39. 65	11.86	51. 51	74.00	-22. 49	Peak	

REMARKS:

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

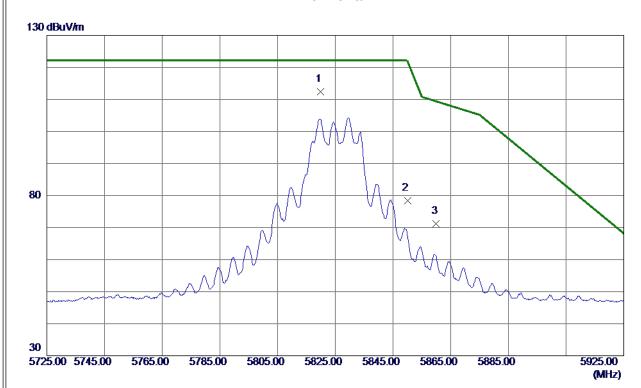
Report No.: BTL-FCCP-2-1902C049

Page 148 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5819.8000	95. 62	16. 73	112. 35	122. 20	-9.85	Peak	No Limit
2	5850.0000	61.63	16. 76	78. 39	122. 20	-43.81	Peak	
3	5860. 0000	54.42	16. 77	71. 19	109.40	-38. 21	Peak	

REMARKS:

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

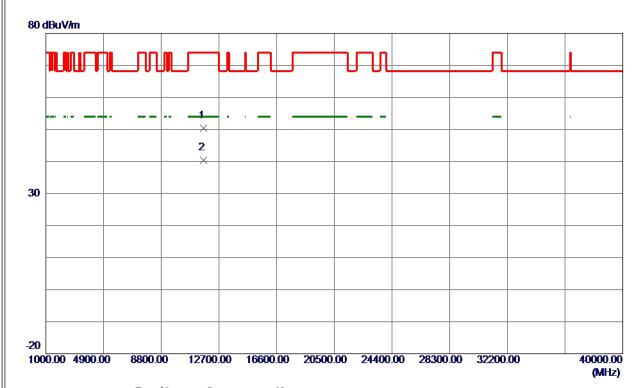
Report No.: BTL-FCCP-2-1902C049

Page 149 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11648.6500	38. 55	11.86	50.41	74.00	-23. 59	Peak	
2 *	11653. 7000	28. 61	11.86	40. 47	54.00	-13. 53	AVG	

REMARKS:

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

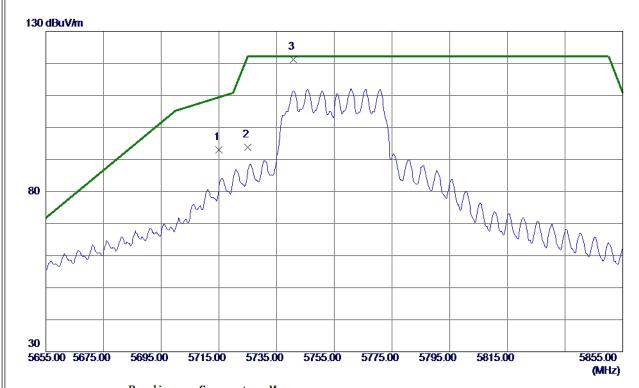
Report No.: BTL-FCCP-2-1902C049

Page 150 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	76. 34	16. 63	92. 97	109.40	-16. 43	Peak	
2	5725. 0000	77. 25	16.64	93.89	122. 20	-28. 31	Peak	
3 *	5740. 7000	104. 52	16. 66	121. 18	122. 20	-1.02	Peak	No Limit

REMARKS:

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

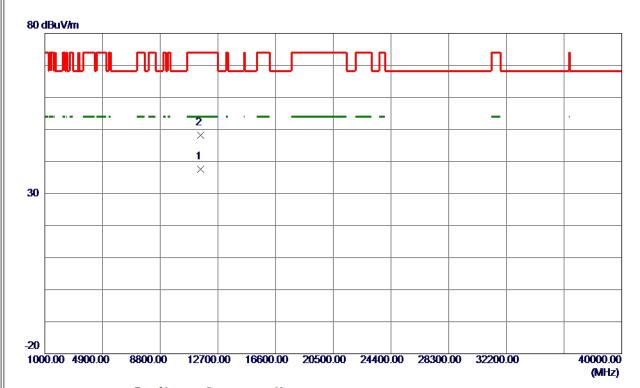
Report No.: BTL-FCCP-2-1902C049

Page 151 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11508.4500	25. 87	11.69	37. 56	54.00	-16. 44	AVG	
2	11509.6500	36. 56	11. 69	48. 25	74.00	-25. 75	Peak	

REMARKS:

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

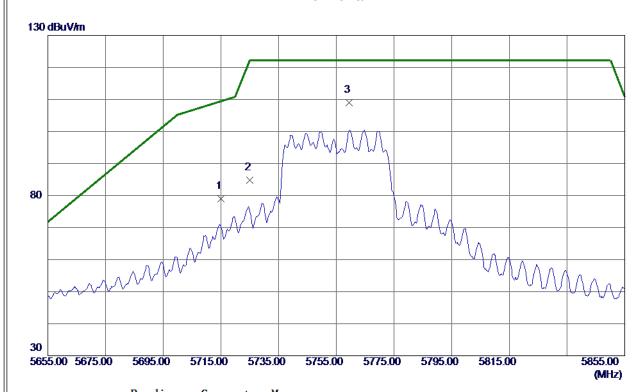
Report No.: BTL-FCCP-2-1902C049

Page 152 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	62. 33	16. 63	78. 96	109.40	-30.44	Peak	
2	5725. 0000	68. 16	16. 64	84.80	122. 20	-37.40	Peak	
3 *	5759. 5000	92. 39	16. 67	109.06	122. 20	-13. 14	Peak	No Limit

REMARKS:

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

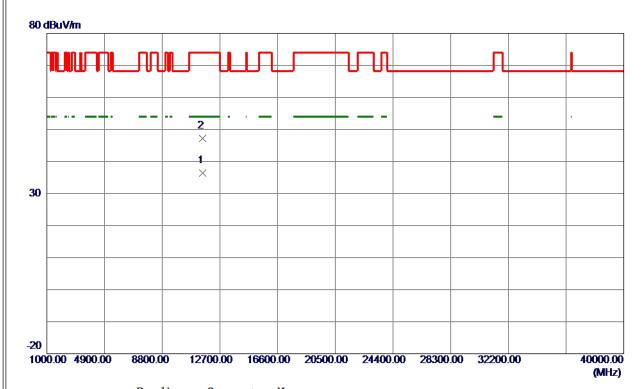
Report No.: BTL-FCCP-2-1902C049

Page 153 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11513.9000	24.64	11.70	36. 34	54.00	-17.66	AVG	
2	11525. 2000	35. 49	11.71	47. 20	74.00	-26. 80	Peak	

REMARKS:

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

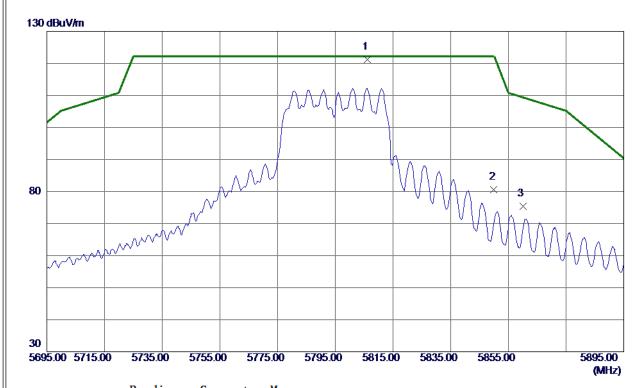
Report No.: BTL-FCCP-2-1902C049

Page 154 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5806. 1000	104.45	16. 72	121. 17	122. 20	-1.03	Peak	No Limit
2	5850.0000	63.87	16. 76	80.63	122. 20	-41.57	Peak	
3	5860. 0000	58. 71	16. 77	75. 48	109.40	-33. 92	Peak	

REMARKS:

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

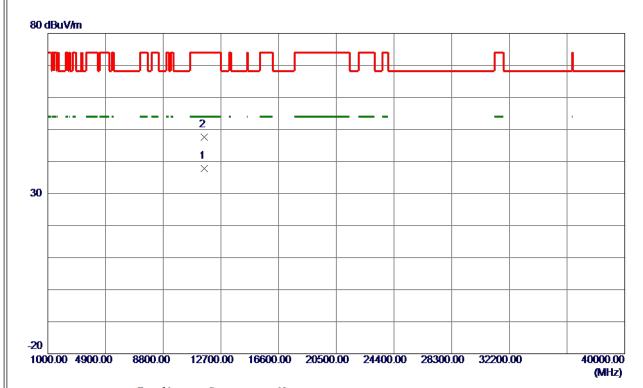
Report No.: BTL-FCCP-2-1902C049

Page 155 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11583. 1000	26.00	11. 78	37.78	54.00	-16. 22	AVG	
2	11584. 2000	35. 88	11. 78	47.66	74.00	-26. 34	Peak	

REMARKS:

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

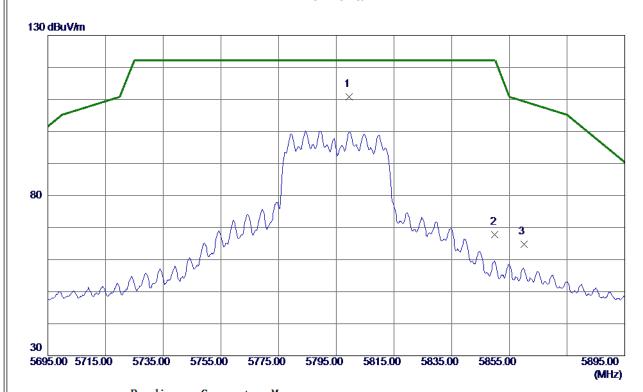
Report No.: BTL-FCCP-2-1902C049

Page 156 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5799. 4000	94.06	16.71	110.77	122. 20	-11.43	Peak	No Limit
2	5850.0000	51. 09	16. 76	67.85	122. 20	-54.35	Peak	
3	5860. 0000	48. 04	16. 77	64.81	109.40	-44. 59	Peak	

REMARKS:

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

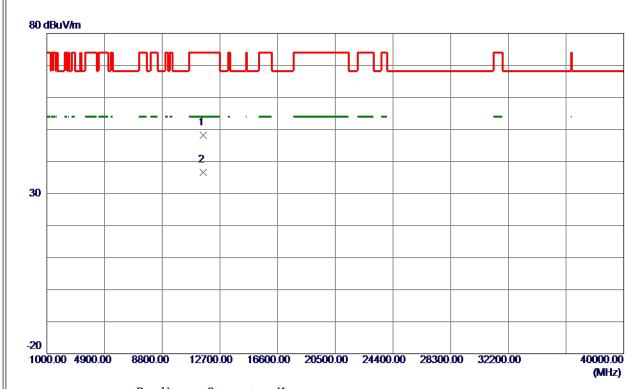
Report No.: BTL-FCCP-2-1902C049

Page 157 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11575.0500	36. 39	11.77	48. 16	74.00	-25.84	Peak	
2 *	11583.8500	24.84	11. 78	36. 62	54.00	-17. 38	AVG	

REMARKS:

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

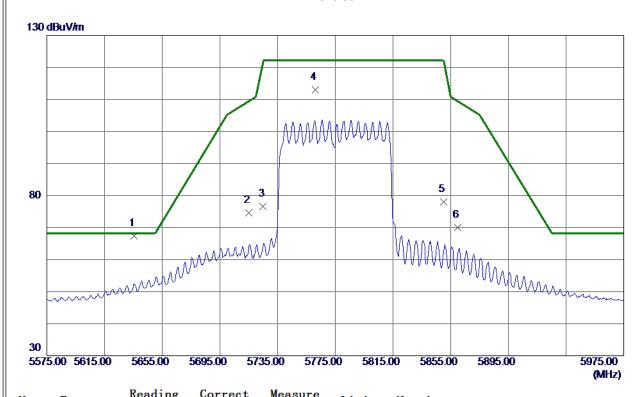
Report No.: BTL-FCCP-2-1902C049

Page 158 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5635. 4000	50.82	16. 56	67.38	68. 20	-0. 82	Peak	
2	5715. 0000	57. 98	16.63	74.61	109.40	-34.79	Peak	
3	5725.0000	60.04	16.64	76.68	122. 20	-45.52	Peak	
4	5761. 2000	96. 36	16. 68	113.04	122. 20	-9. 16	Peak	No Limit
5	5850.0000	61. 15	16. 76	77. 91	122. 20	-44. 29	Peak	
6	5860.0000	53. 32	16.77	70.09	109.40	-39. 31	Peak	

REMARKS:

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

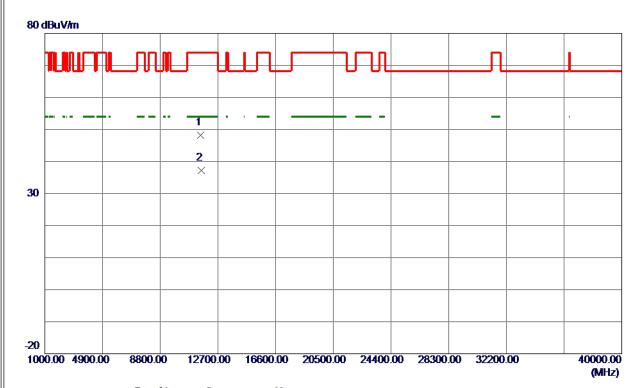
Report No.: BTL-FCCP-2-1902C049

Page 159 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11528.7000	36. 50	11.71	48. 21	74.00	-25. 79	Peak	
2 *	11563. 1500	25. 51	11. 76	37. 27	54.00	-16. 73	AVG	

REMARKS:

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

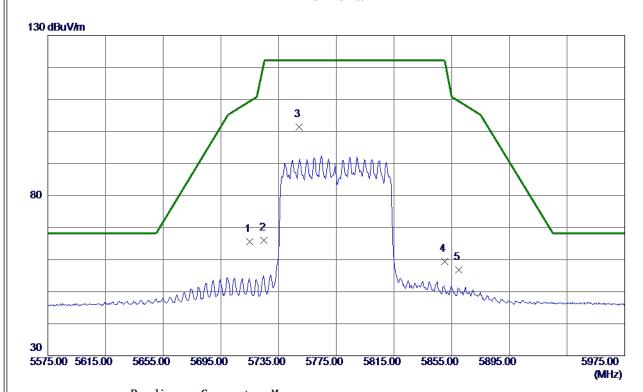
Report No.: BTL-FCCP-2-1902C049

Page 160 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX AC (VHT80) Mode 5775 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	48. 93	16. 63	65. 56	109.40	-43.84	Peak	
2	5725. 0000	49.40	16. 64	66. 04	122. 20	-56. 16	Peak	
3 *	5749. 4000	84.72	16. 66	101.38	122. 20	-20.82	Peak	No Limit
4	5850. 0000	42. 59	16. 76	59. 35	122. 20	-62.85	Peak	
5	5860.0000	39. 97	16.77	56. 74	109.40	-52.66	Peak	

REMARKS:

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

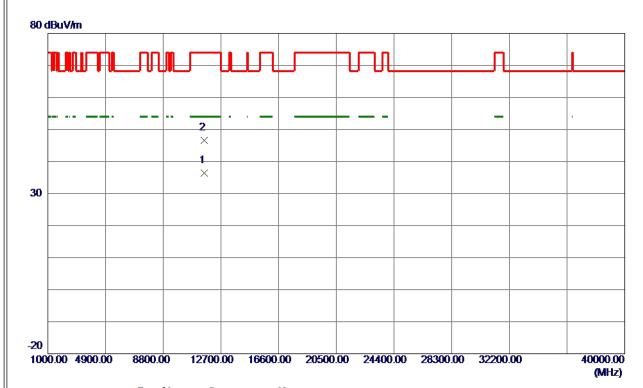
Report No.: BTL-FCCP-2-1902C049

Page 161 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11573. 5000	24. 59	11.77	36. 36	54.00	-17.64	AVG	
2	11574. 4000	34.88	11.77	46.65	74.00	-27. 35	Peak	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 162 of 338 Report Version: R01

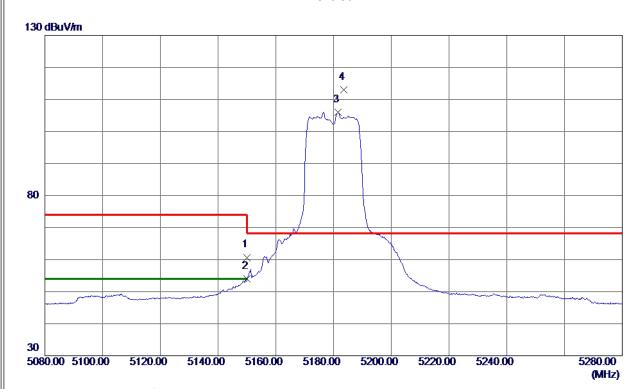




With Beamforming

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	46.00	14.70	60.70	74.00	-13. 30	Peak	
2	5150.0000	39. 23	14.70	53. 93	54.00	-0.07	AVG	
3	5181.6000	91. 35	14.75	106. 10	999.00	-892. 90	AVG	No Limit
4 *	5183.6000	98. 35	14.75	113. 10	68. 30	44.80	Peak	No Limit

REMARKS:

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

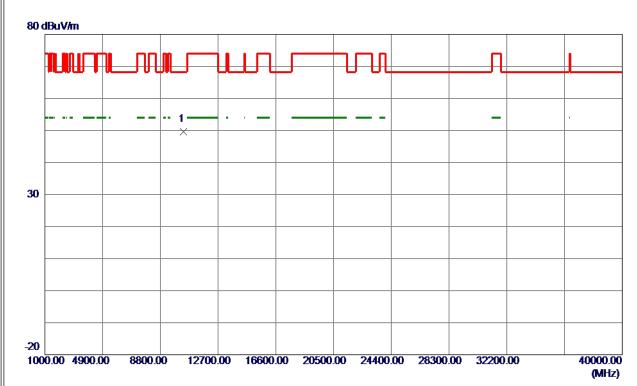
Report No.: BTL-FCCP-2-1902C049

Page 163 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10354. 2750	38. 99	10. 57	49. 56	68. 30	-18.74	Peak	

REMARKS:

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

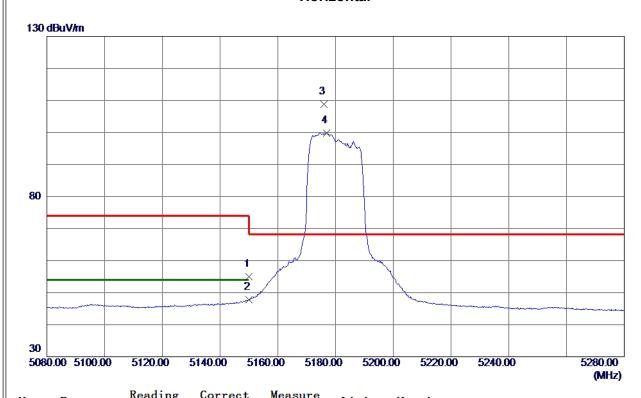
Report No.: BTL-FCCP-2-1902C049

Page 164 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150. 0000	40. 31	14.70	55. 01	74.00	-18. 99	Peak	
2	5150.0000	33. 04	14.70	47.74	54.00	-6. 26	AVG	
3 *	5175. 9000	94. 07	14.74	108.81	68. 30	40. 51	Peak	No Limit
4	5176. 8000	84.98	14.74	99. 72	999.00	-899. 28	AVG	No Limit

REMARKS:

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

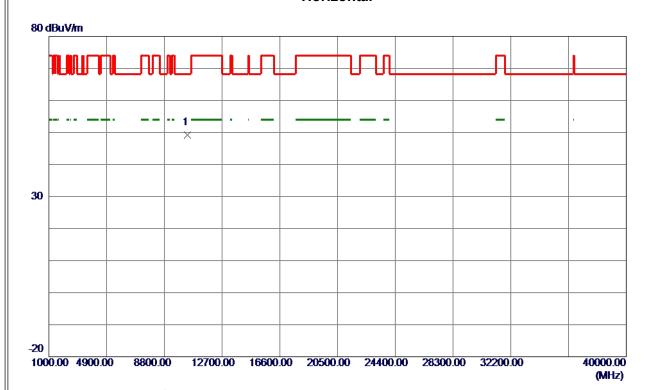
Report No.: BTL-FCCP-2-1902C049

Page 165 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360. 3750	38. 65	10. 58	49. 23	68. 30	-19.07	Peak	

REMARKS:

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

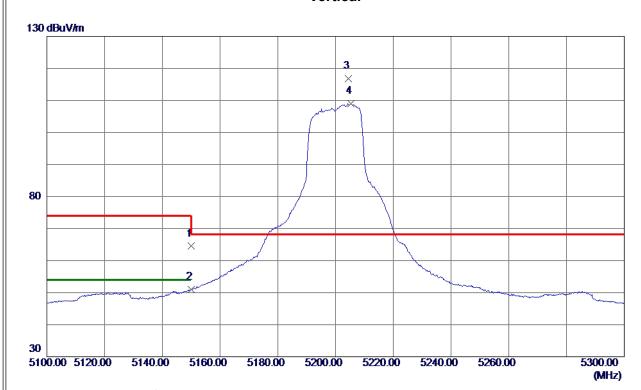
Report No.: BTL-FCCP-2-1902C049

Page 166 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	49.80	14.70	64. 50	74.00	-9. 50	Peak	
2	5150. 0000	36. 32	14.70	51.02	54.00	-2.98	AVG	
3 *	5204. 4000	102. 11	14.78	116.89	68. 30	48. 59	Peak	No Limit
4	5205. 4000	94. 13	14. 78	108. 91	999.00	-890.09	AVG	No Limit

REMARKS:

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

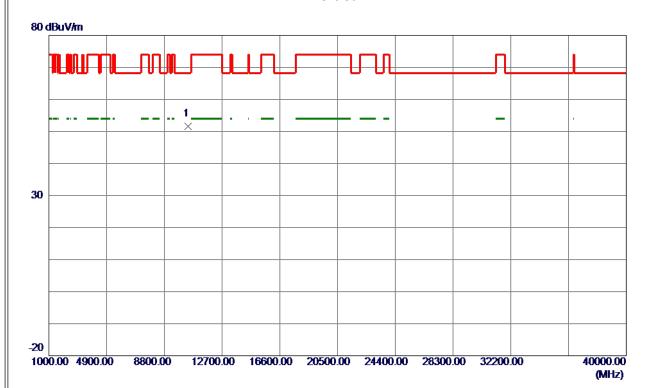
Report No.: BTL-FCCP-2-1902C049

Page 167 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10394.8000	40.88	10.63	51. 51	68. 30	-16. 79	Peak	

REMARKS:

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

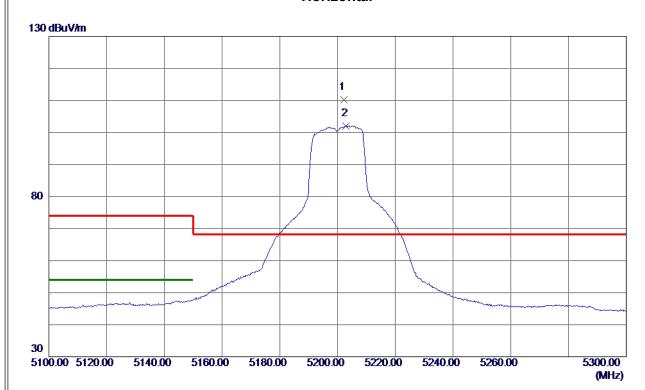
Report No.: BTL-FCCP-2-1902C049

Page 168 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5202. 3000	95. 47	14.77	110. 24	68.30	41.94	Peak	No Limit
2	5203.0000	87. 30	14.77	102. 07	999.00	-896. 93	AVG	No Limit

REMARKS:

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

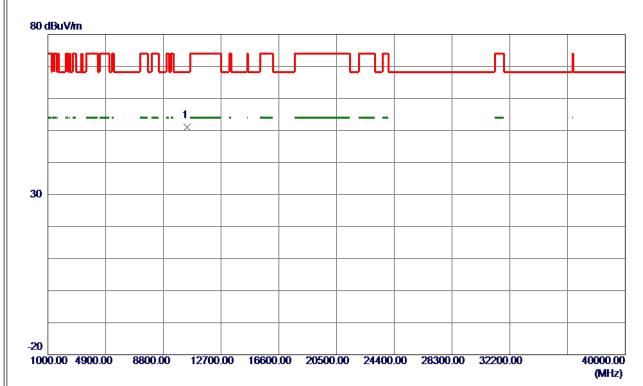
Report No.: BTL-FCCP-2-1902C049

Page 169 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10413. 1500	40. 25	10.65	50. 90	68. 30	-17.40	Peak	

REMARKS:

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

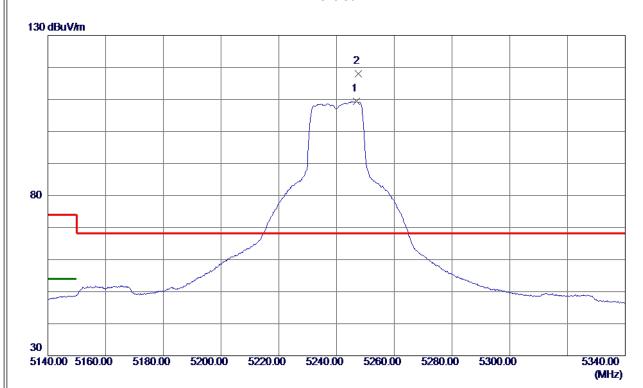
Report No.: BTL-FCCP-2-1902C049

Page 170 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5246. 9000	94. 56	14.83	109.39	999.00	-889. 61	AVG	No Limit
2 *	5247.6000	103. 08	14.83	117. 91	68.30	49.61	Peak	No Limit

REMARKS:

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

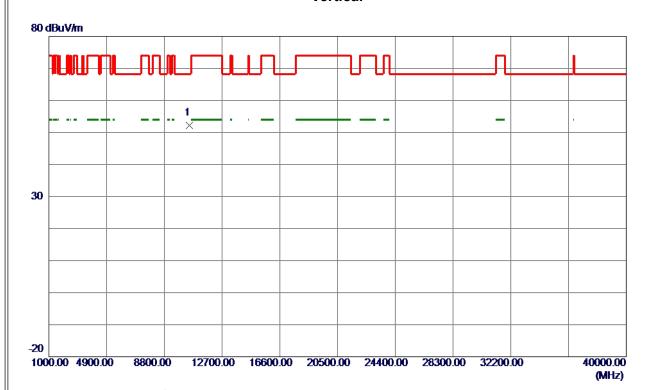
Report No.: BTL-FCCP-2-1902C049

Page 171 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10483. 1500	41.50	10.74	52. 24	68. 30	-16.06	Peak	

REMARKS:

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

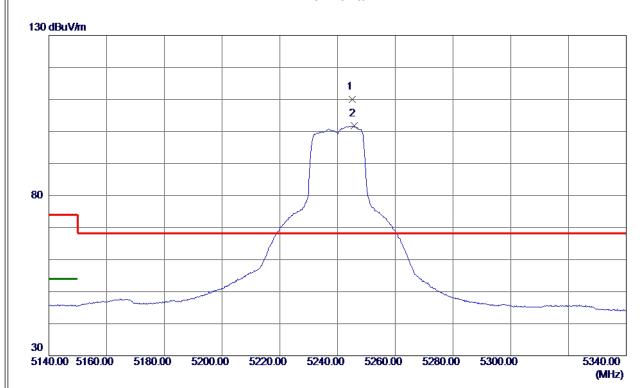
Report No.: BTL-FCCP-2-1902C049

Page 172 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5245.0000	95. 17	14.83	110.00	68.30	41.70	Peak	No Limit
2	5245. 8000	86. 87	14.83	101.70	999.00	-897. 30	AVG	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 173 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10485. 2500	39. 99	10.74	50.73	68. 30	-17. 57	Peak	

REMARKS:

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

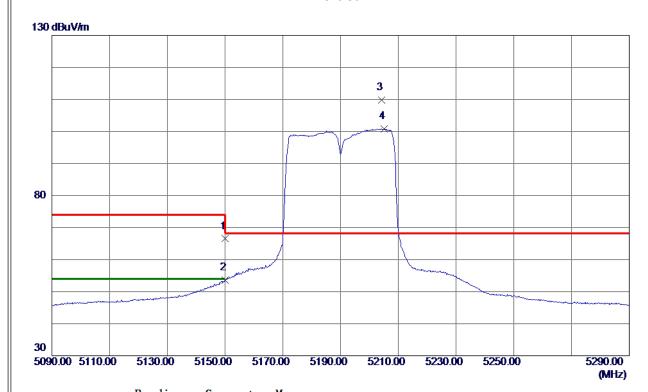
Report No.: BTL-FCCP-2-1902C049

Page 174 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	51.80	14.70	66. 50	74.00	−7. 50	Peak	
2	5150.0000	38. 90	14.70	53. 60	54.00	-0.40	AVG	
3 *	5204. 2000	94.94	14.78	109.72	68. 30	41.42	Peak	No Limit
4	5205. 2000	86. 02	14. 78	100.80	999.00	-898. 20	AVG	No Limit

REMARKS:

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

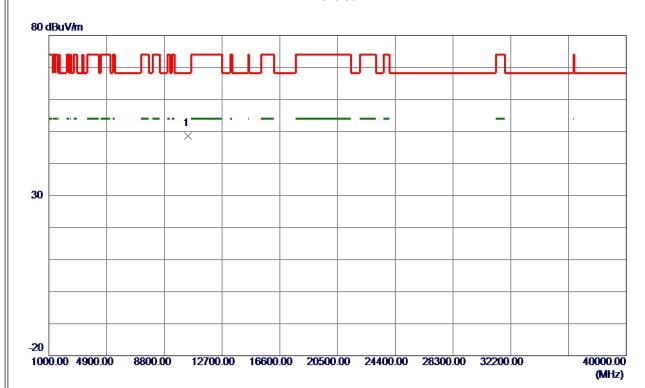
Report No.: BTL-FCCP-2-1902C049

Page 175 of 338 Report Version: R01





		П
Orthogonal Axis	X	
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz	



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10391. 9500	37. 98	10.62	48. 60	68. 30	-19.70	Peak	

REMARKS:

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

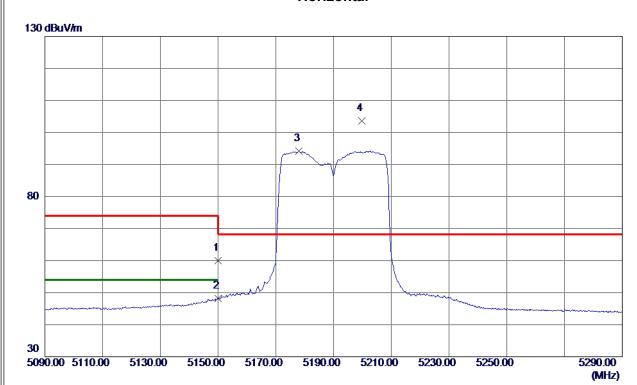
Report No.: BTL-FCCP-2-1902C049

Page 176 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	45. 22	14.70	59. 92	74.00	-14.08	Peak	
2	5150.0000	33. 43	14.70	48. 13	54.00	-5. 87	AVG	
3	5178. 1000	79. 54	14.74	94. 28	999.00	-904.72	AVG	No Limit
4 *	5199. 8000	88. 75	14.77	103. 52	68.30	35. 22	Peak	No Limit

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 177 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10381.8000	36. 87	10.61	47.48	68. 30	-20.82	Peak	

REMARKS:

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

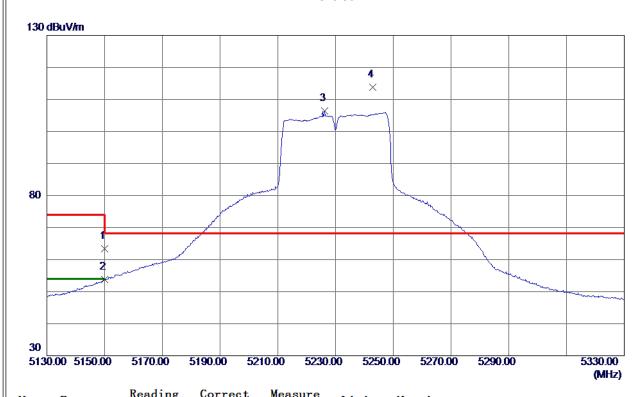
Report No.: BTL-FCCP-2-1902C049

Page 178 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1 TX N (HT40) Mode 5230 MHz



No.	Freq.	Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	48.74	14.70	63.44	74.00	-10. 56	Peak	
2	5150. 0000	39. 13	14.70	53.83	54.00	-0. 17	AVG	
3	5226. 2000	91. 53	14.80	106. 33	999.00	-892.67	AVG	No Limit
4 *	5242. 8000	99. 04	14.83	113.87	68. 30	45. 57	Peak	No Limit

REMARKS:

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

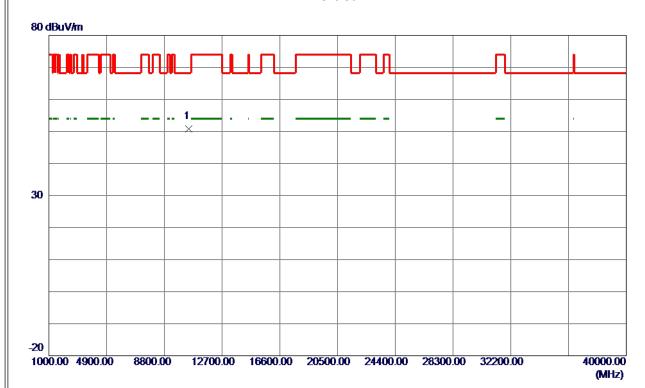
Report No.: BTL-FCCP-2-1902C049

Page 179 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10458. 9000	40. 10	10.71	50.81	68. 30	-17.49	Peak	

REMARKS:

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

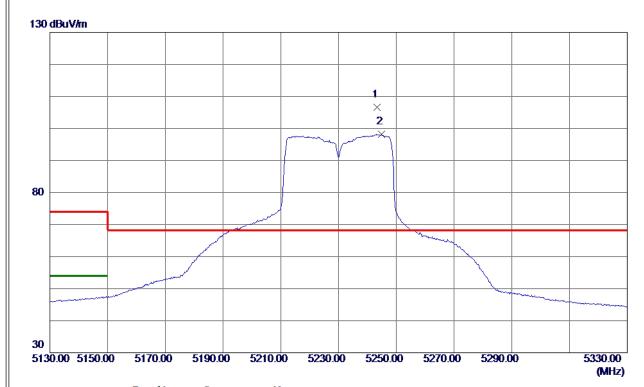
Report No.: BTL-FCCP-2-1902C049

Page 180 of 338 Report Version: R01





Orthogonal Axis	lx
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5243. 4000	91.85	14.83	106.68	68.30	38. 38	Peak	No Limit
2	5244.8000	83. 33	14.83	98. 16	999.00	-900. 84	AVG	No Limit

REMARKS:

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

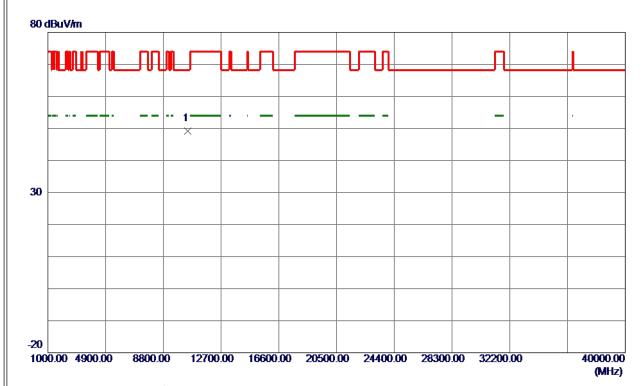
Report No.: BTL-FCCP-2-1902C049

Page 181 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10461. 0000	38. 58	10.71	49. 29	68. 30	-19.01	Peak	

REMARKS:

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

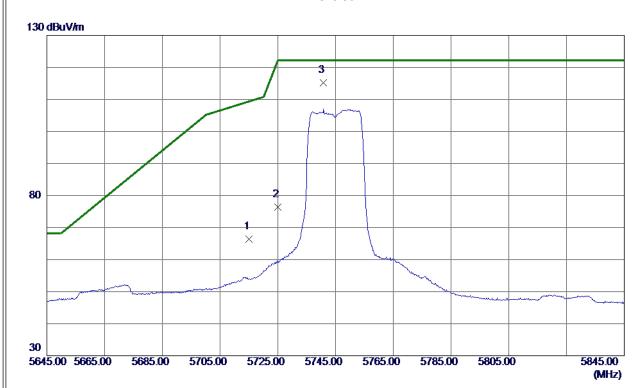
Report No.: BTL-FCCP-2-1902C049

Page 182 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	51.02	15. 47	66. 49	109.40	-42.91	Peak	
2	5725.0000	61.01	15. 48	76. 49	122. 20	-45.71	Peak	
3 *	5740. 8000	99. 79	15. 50	115. 29	122. 20	-6. 91	Peak	No Limit

REMARKS:

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

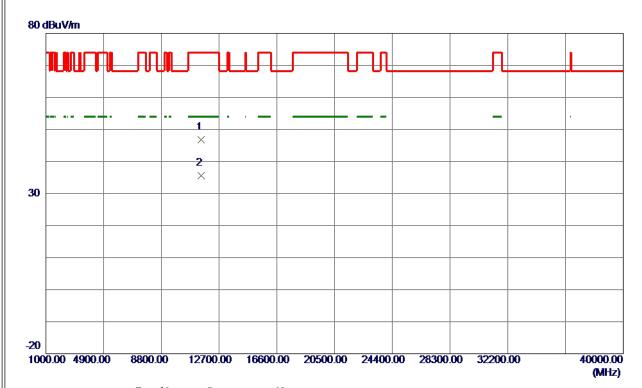
Report No.: BTL-FCCP-2-1902C049

Page 183 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11482. 3900	35. 13	11.65	46. 78	74.00	-27. 22	Peak	
2 *	11498.6800	23. 90	11.68	35. 58	54.00	-18.42	AVG	

REMARKS:

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

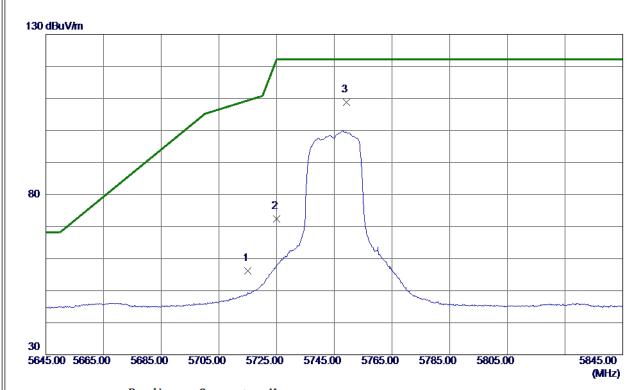
Report No.: BTL-FCCP-2-1902C049

Page 184 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	40.74	15. 47	56. 21	109.40	-53. 19	Peak	
2	5725.0000	56. 95	15. 48	72.43	122. 20	-49.77	Peak	
3 *	5749. 2000	93. 37	15. 51	108.88	122. 20	-13.32	Peak	No Limit

REMARKS:

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

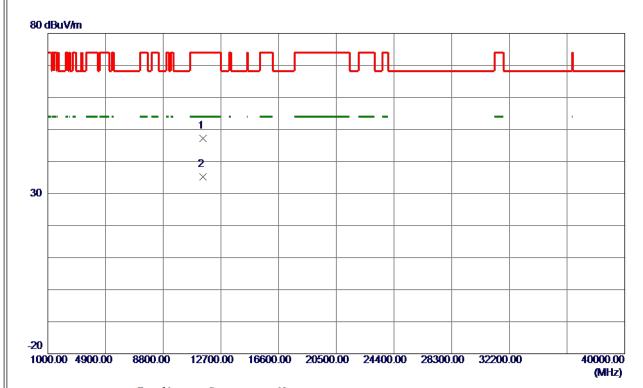
Report No.: BTL-FCCP-2-1902C049

Page 185 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11498. 3400	35. 54	11.68	47. 22	74.00	-26. 78	Peak	
2 *	11499. 6000	23. 61	11.68	35. 29	54.00	-18.71	AVG	

REMARKS:

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

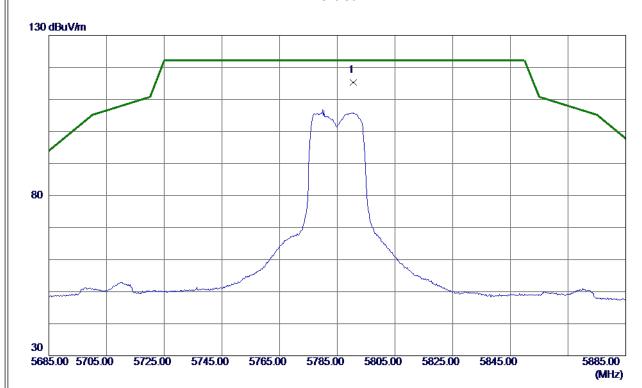
Report No.: BTL-FCCP-2-1902C049

Page 186 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3 TX N (HT20) Mode 5785 MHz



No.	Freq.		Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5790. 6000	99. 73	15. 57	115. 30	122. 20	-6. 90	Peak	No Limit

REMARKS:

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

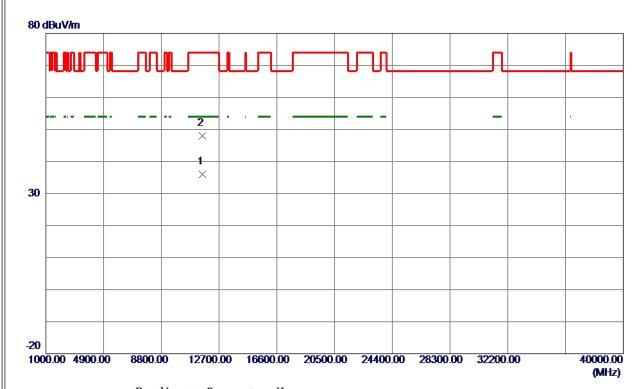
Report No.: BTL-FCCP-2-1902C049

Page 187 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11563. 3300	24. 22	11.76	35. 98	54.00	-18.02	AVG	
2	11572. 0500	36. 18	11.77	47. 95	74.00	-26. 05	Peak	

REMARKS:

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

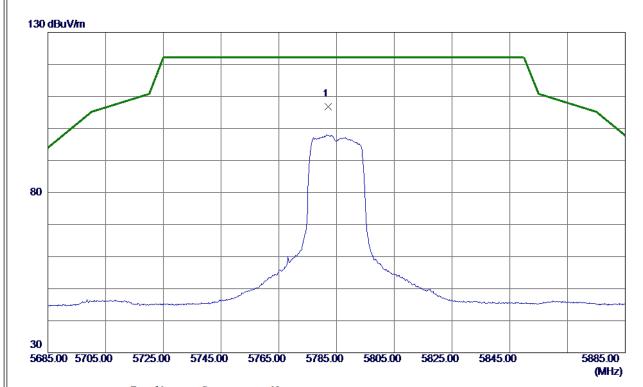
Report No.: BTL-FCCP-2-1902C049

Page 188 of 338 Report Version: R01





Orthogonal Axis	x
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5782. 0000	91. 16	15. 56	106.72	122. 20	-15. 48	Peak	No Limit

REMARKS:

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

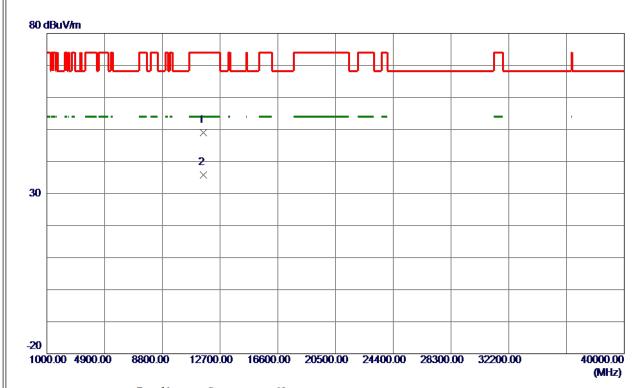
Report No.: BTL-FCCP-2-1902C049

Page 189 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11571.0300	37. 21	11.77	48. 98	74.00	-25.02	Peak	
2 *	11572. 5300	24. 05	11.77	35. 82	54.00	-18. 18	AVG	

REMARKS:

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

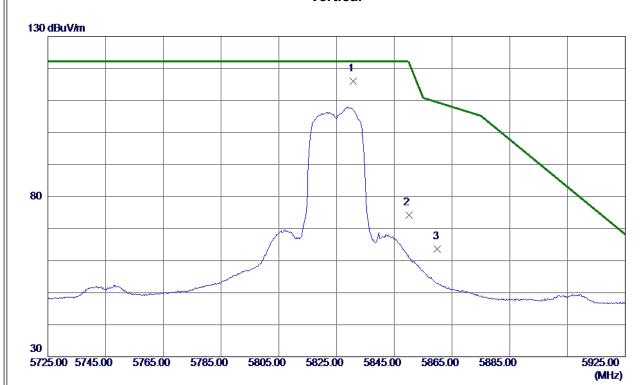
Report No.: BTL-FCCP-2-1902C049

Page 190 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz



MHz dBuV/m dB dBuV/m dB Detector Comment	
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment	
1 * 5830.8000 100.34 15.63 115.97 122.20 -6.23 Peak No Limit	
2 5850.0000 58.60 15.66 74.26 122.20 -47.94 Peak	
3 5860.0000 47.97 15.67 63.64 109.40 -45.76 Peak	

REMARKS:

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

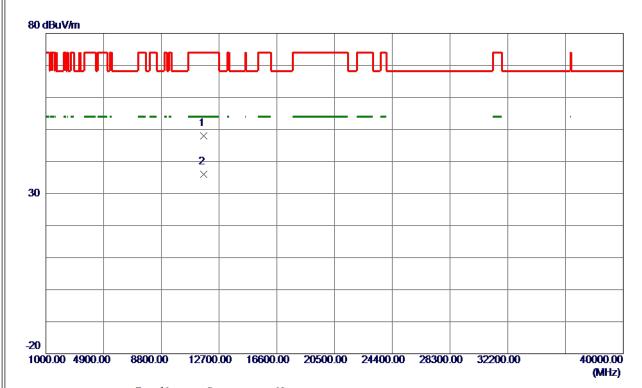
Report No.: BTL-FCCP-2-1902C049

Page 191 of 338 Report Version: R01





Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11644. 1800	36. 21	11.85	48.06	74.00	-25. 94	Peak	
2 *	11657.0700	24. 12	11.87	35. 99	54.00	-18. 01	AVG	

REMARKS:

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

Report No.: BTL-FCCP-2-1902C049

Page 192 of 338 Report Version: R01