

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION REFERENCING TEST DATA ACROSS SEPARATE EQUIPMENT VERIFICATION

OF

Quanta Computer Inc.

Applicant: No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: 7 inch POS Terminal

Brand Name: Quanta, CASTLES

Model No.: KI1, SATURN7000

Model Difference: N/A

FCC ID: HFS-KI1WIFI

Report Number: E2/2019/90015

FCC Rule Part: §15.225 / §15.247, Cat: DSS & DTS / §15.407, Cat: NII

Issue Date: Oct. 23, 2019

Date of Test: Sep. 23, 2019 ~ Sep. 24, 2019

Date of EUT Received: Sep. 11, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report

Approved By: _____



Jim Chang / Manager



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Revision History

Revision	Description	Issue Date	Remark
Rev.00	Original.	Oct. 17, 2019	Revised By: Karen Huang
Rev.01	Revised information in description of test modes	Oct. 23, 2019	Revised By: Karen Huang

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Contents

1	GENERAL INFORMATION.....	4
2	SYSTEM TEST CONFIGURATION	6
3	SUMMARY OF TEST RESULTS	8
4	DESCRIPTION OF TEST MODES.....	9
5	MEASUREMENT UNCERTAINTY.....	10
6	RADIATED SPURIOUS EMISSION MEASUREMENT.....	11

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	7 inch POS Terminal	
Brand Name:	Quanta, CASTLES	
Model No.:	KI1, SATURN7000	
Model Difference:	N/A	
Software version:	01.000	
Hardware version:	B2	
Power Supply:	3.8V from Rechargeable Li-ion Battery or 5V from AC/DC Adapter	
	Battery:	Model no.: 141023 Supplier: Ningbo Veken Battery Co., Ltd.
	Adapter:	Model No.: CYSF12G-050200U, Supplier: JIANGSU CHENYANG ELECTRON Co., LTD

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

FCC Part 15, Subpart C §15.247

FCC KDB 484596 D01 Referencing Test Data v01

FCC KDB 558074 D01 v05r01 DTS Meas. Guidance

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules V02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Number and Designation are: 735305 / TW0002

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Radiated Emissions for DXX

The EUT is placed on a turn table which is 0.8 m above ground plan. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through one orthogonal axis and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.3.2 Radiated Emissions for DSS & DTS & NII

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration (NFC & BT & BLE & WLAN)



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	NFC Test Software	N/A	N/A	N/A	N/A	N/A
2.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
3.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.247(d)	Radiated Spurious Emission	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done base on the worst case of original FCC ID: HFS-K11 for DXX, DSS, DTS and NII.

Radiated emission test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	Worst Case Position H / E1 / E2
NFC	1	1	ASK	-	E1
Bluetooth	0 to 78	78	GFSK	DH5	H
Bluetooth LE	0 to 39	39	GFSK	1	H
802.11b	1 to 11	6	DSSS	1	H
802.11a	52 to 64	64	OFDM	6	H

Band edge falling to restricted band

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	Worst Case Position H / E1 / E2
802.11n20	1 to 11	11	OFDM	MCS0	H
802.11n40	102 to 134	134	OFDM	MCS0	H

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for NFC, BT, BLE, WLAN Transmitter for channel Low, Mid and High, the worst case position was reported.

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5 MEASUREMENT UNCERTAINTY

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +/-2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +/-2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 RADIATED SPURIOUS EMISSION MEASUREMENT

6.1 Measurement Equipment Used:

For NFC

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35243	09/09/2019	09/08/2020
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	12/25/2018	12/24/2019
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/25/2018	12/24/2019

For BLE/BT

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35243	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC0011830	980199	12/25/2018	12/24/2019
Attenuator	Marvelous	WATT-218FS-10	RF246	12/25/2018	12/24/2019
Highpass Filter	Micro Tronics	BRM50701-01	G008	12/25/2018	12/24/2019
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/25/2018	12/24/2019

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For 2.4G WLAN

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/25/2018	12/24/2019
Attenuator	Marvelous	WATT-218FS-10	RF246	12/25/2018	12/24/2019
Highpass Filter	Micro Tronics	BRM50701-01	G008	12/25/2018	12/24/2019
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/25/2018	12/24/2019

For 5G WLAN

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
Horn Antenna	SCHWAZBECK	BBHA9170	185	08/07/2019	08/06/2020
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	12/25/2018	12/24/2019
Attenuator	Marvelous	WATT-218FS-10	RF246	12/25/2018	12/24/2019
Band Rejection Filter	Micro-Tronics	G015	RF100	12/25/2018	12/24/2019
Band Rejection Filter	Micro-Tronics	G016	RF101	12/25/2018	12/24/2019
Band Rejection Filter	Micro-Tronics	G021	RF102	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	EMC106-SM-SM-720 0	150703	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/25/2018	12/24/2019

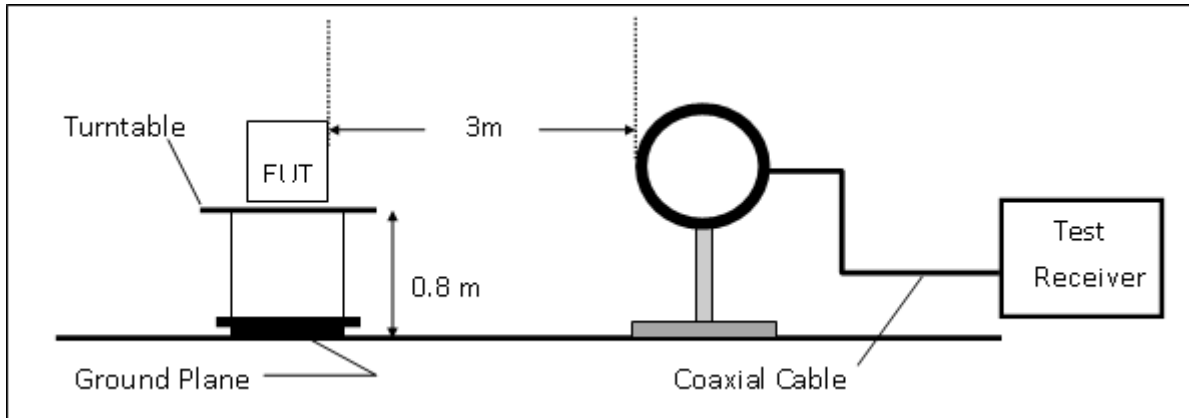
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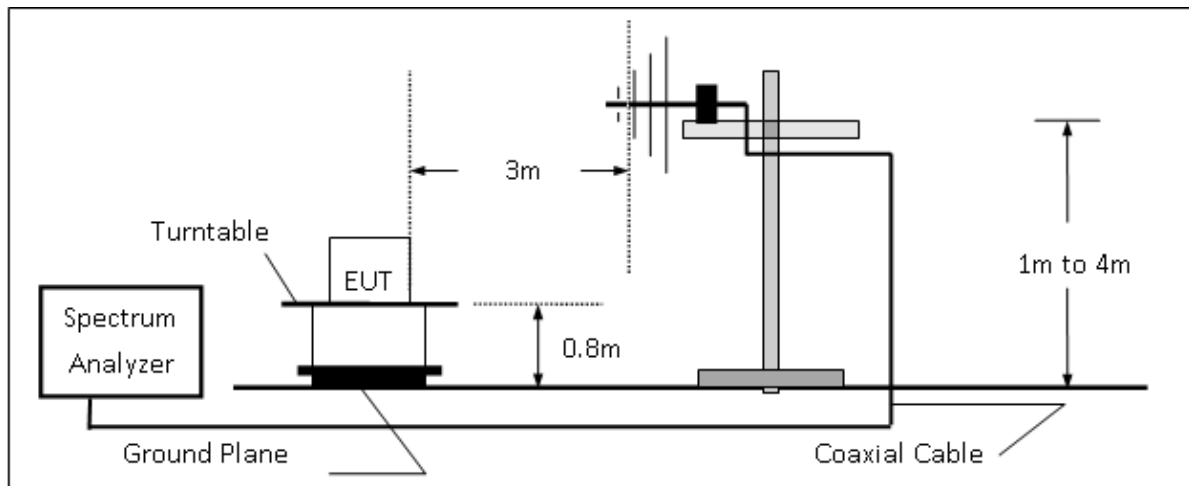
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6.2 Test SET-UP

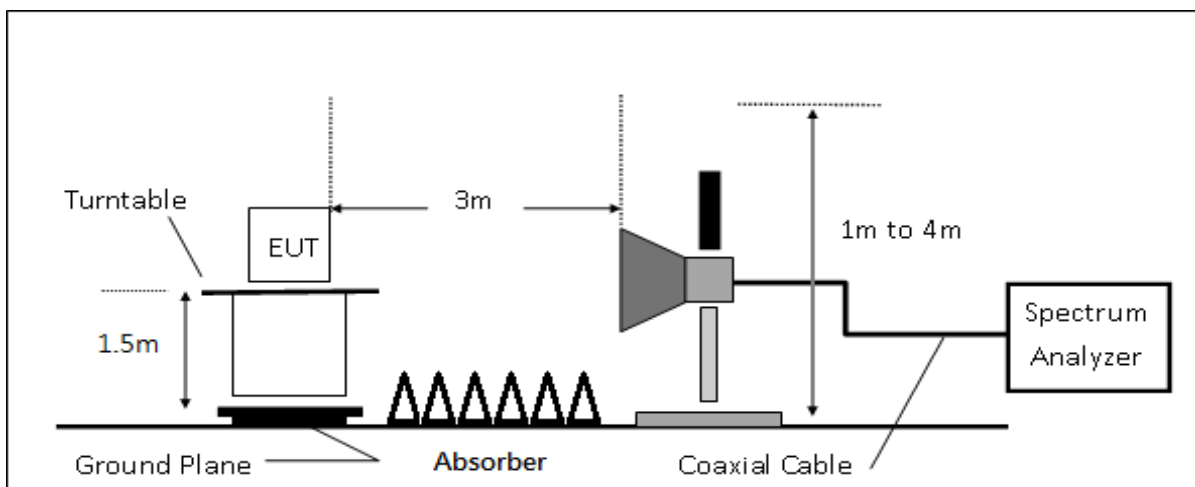
(A) Radiated Emission Test Set-Up Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up Frequency Over 1 GHz



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6.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & FCC KDB 789033 D02 General UNII Test Procedures New Rules..
2. The EUT was placed on a turn table with 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
10. Repeat above procedures until all default test channel measured were complete.

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

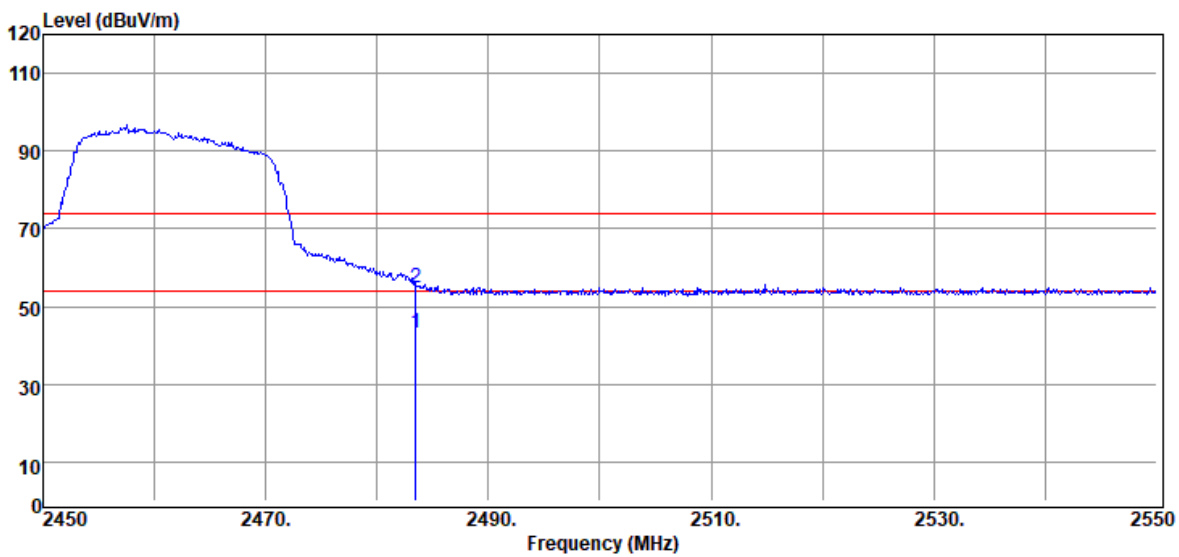
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6.5 Measurement Result

Band edge falling to restricted band (Worst Case)

Report Number	:E2/2019/90015	Test Date	:2019-09-23
Operation Mode	:802.11n20	Temp./Humi.	:24.4/56
Test Channel	:2462 MHz	Antenna Pol.	:VERTICAL
Test Mode	:BE CH HIGH	Engineer	:Ashton
EUT Pol	:H Plan		



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	40.26	2.97	43.23	54.00	-10.77
2483.50	Peak	52.06	2.97	54.97	74.00	-19.03

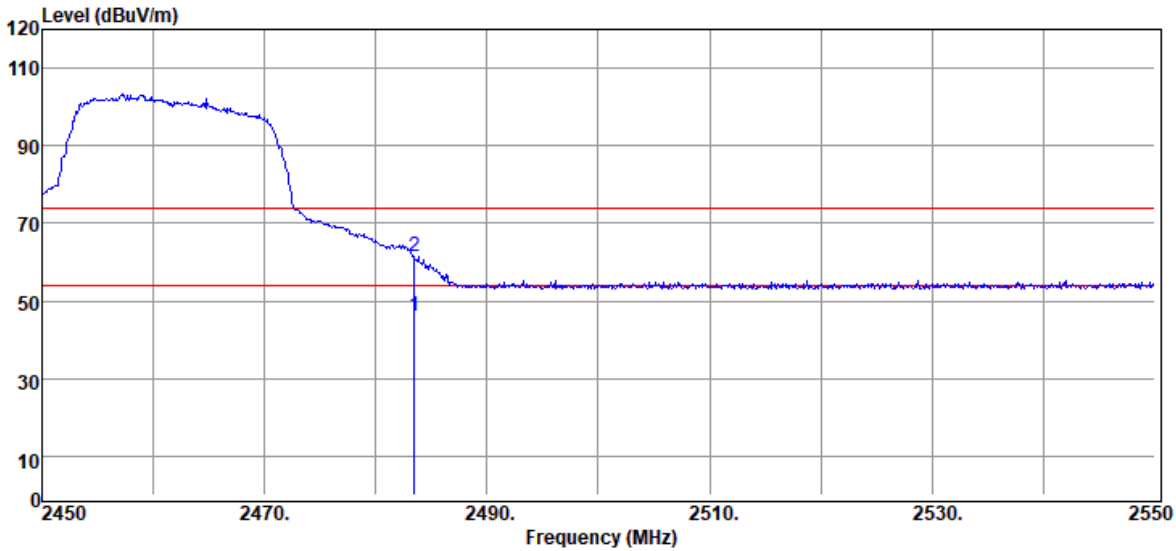
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Report Number :E2/2019/90015
 Operation Mode :802.11n20
 Test Channel :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-23
 Temp./Humi. :24.4/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	Average	43.26	2.97	46.23	54.00	-7.77
2483.50	Peak	58.57	2.97	61.54	74.00	-12.46

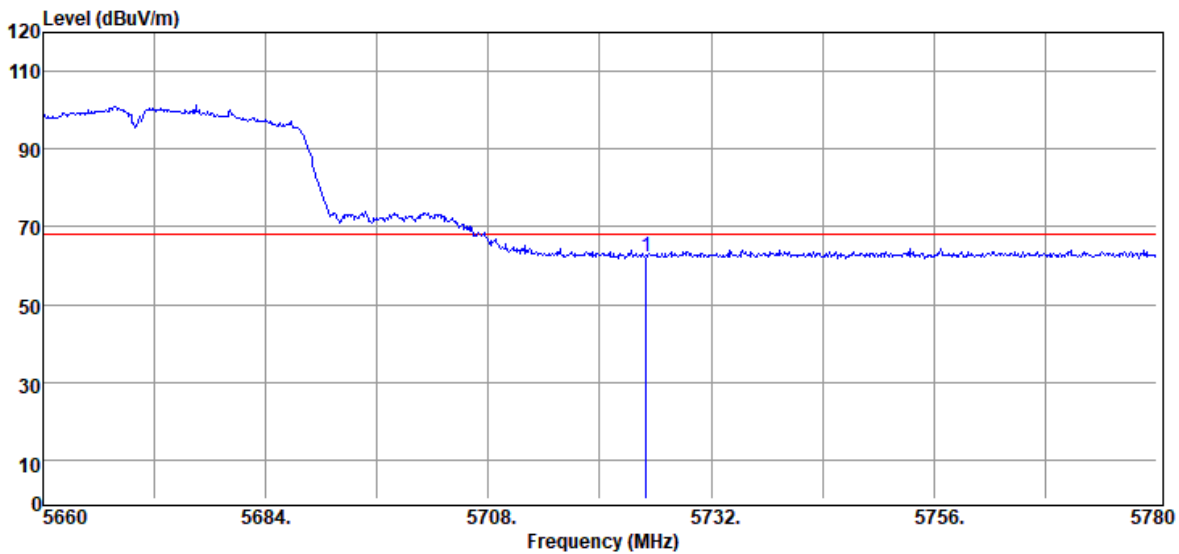
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Report Number :E2/2019/90015
 Operation Mode :802.11n40 / Band 3
 Test Channel :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-23
 Temp./Humi. :24.5/55
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	49.75	12.58	62.33	68.20	-5.87

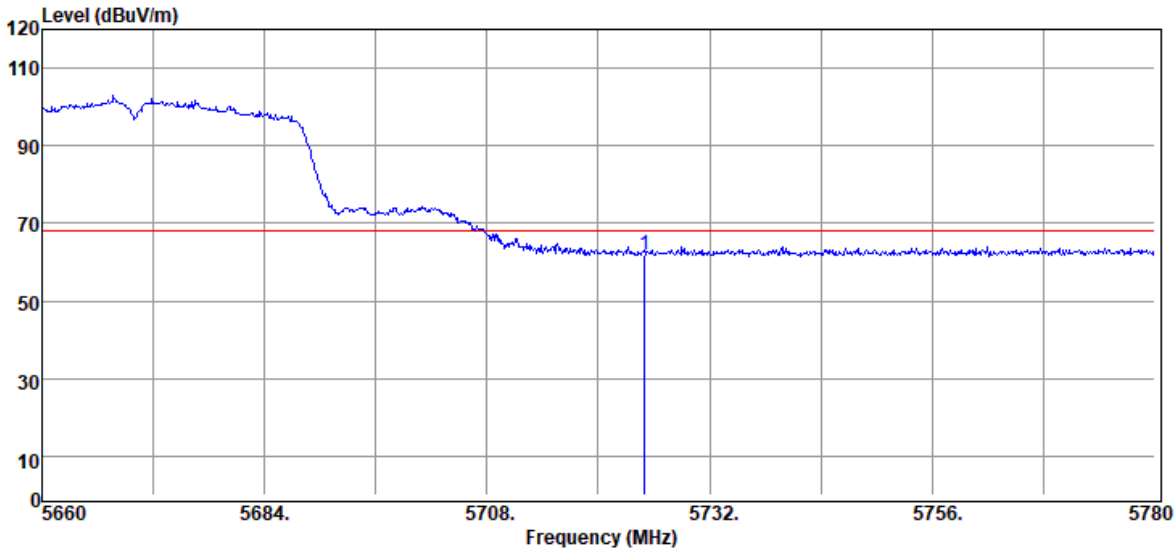
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Report Number :E2/2019/90015
 Operation Mode :802.11n40 / Band 3
 Test Channel :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-23
 Temp./Humi. :24.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	49.26	12.58	61.84	68.20	-6.36

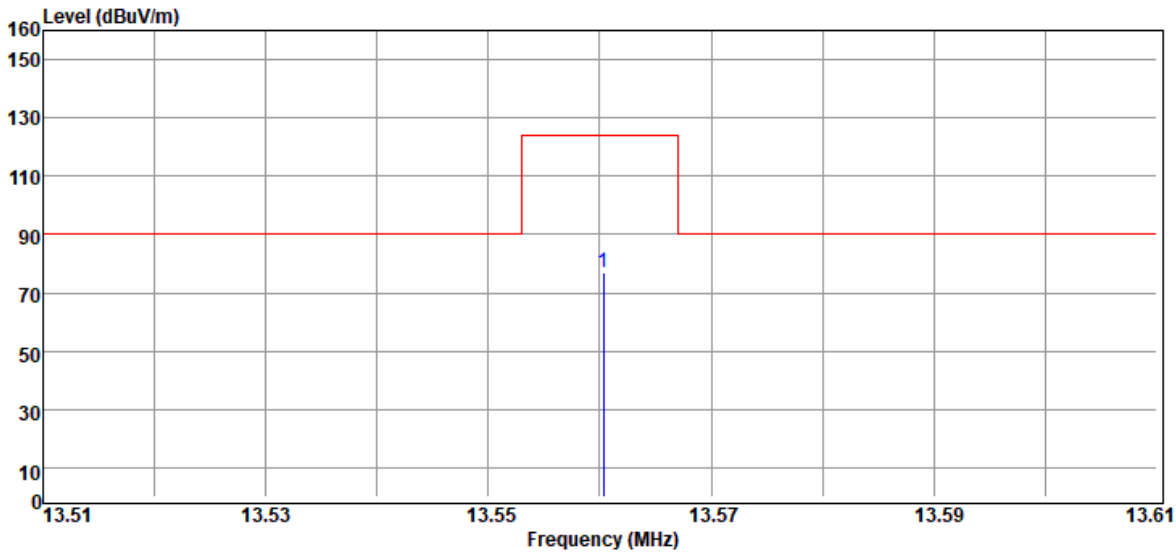
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Radiated Spurious Emission Measurement Result (Worst Case)

Report Number	:E2/2019/90015	Test Date	:2019-09-24
Operation Mode	:NFC	Temp./Humi.	:23.1/62
Test Channel	:13.56 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Main CH MID	Engineer	:Ashton
EUT Pol	:E1 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.56	Peak	64.85	11.98	76.83	124.00	-47.17

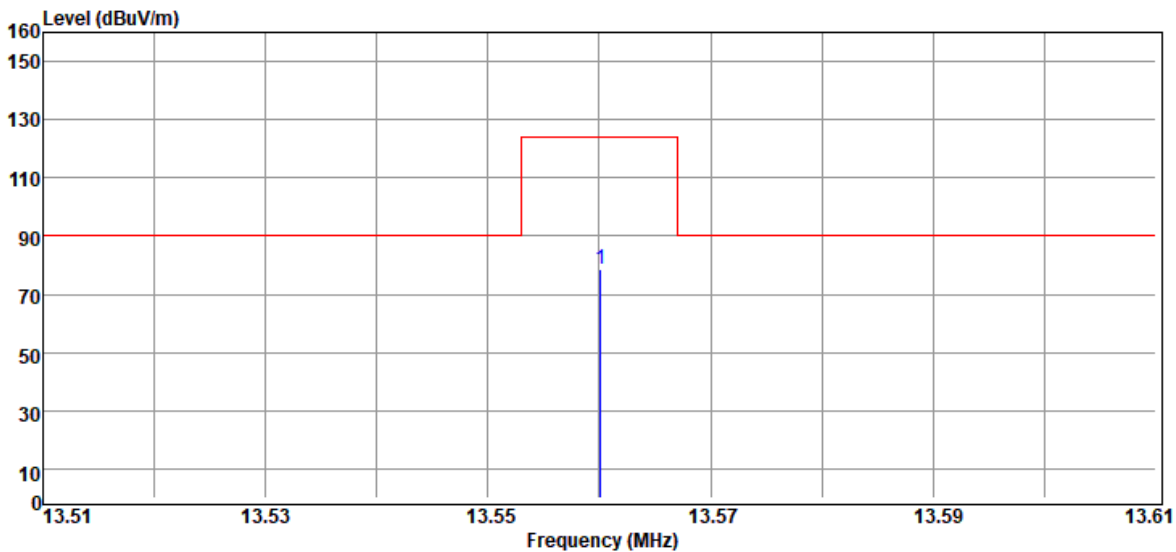
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Report Number :E2/2019/90015
 Operation Mode :NFC
 Test Channel :13.56 MHz
 Test Mode :Main CH MID
 EUT Pol :E1 Plan

Test Date :2019-09-24
 Temp./Humi. :23.1/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.56	Peak	66.46	11.98	78.44	124.00	-45.56

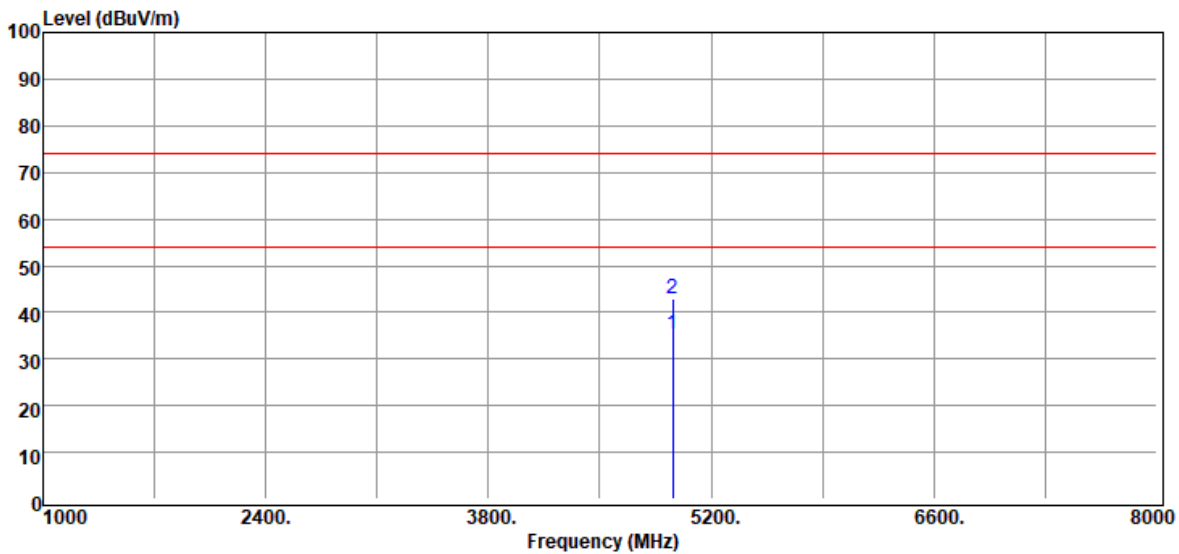
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Report Number :E2/2019/90015
 Operation Mode :BT BR
 Test Channel :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :23.9/59
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	23.98	11.31	35.29	54.00	-18.71
4960.00	Peak	31.65	11.31	42.96	74.00	-31.04

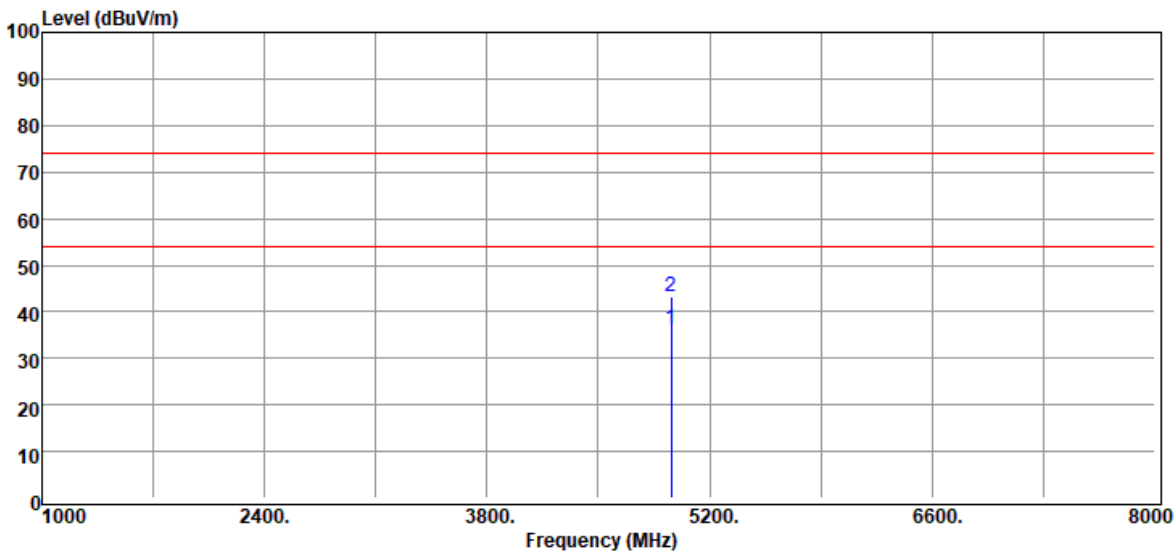
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Report Number :E2/2019/90015
 Operation Mode :BT BR
 Test Channel :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :23.9/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	24.98	11.31	36.29	54.00	-17.71
4960.00	Peak	31.82	11.31	43.13	74.00	-30.87

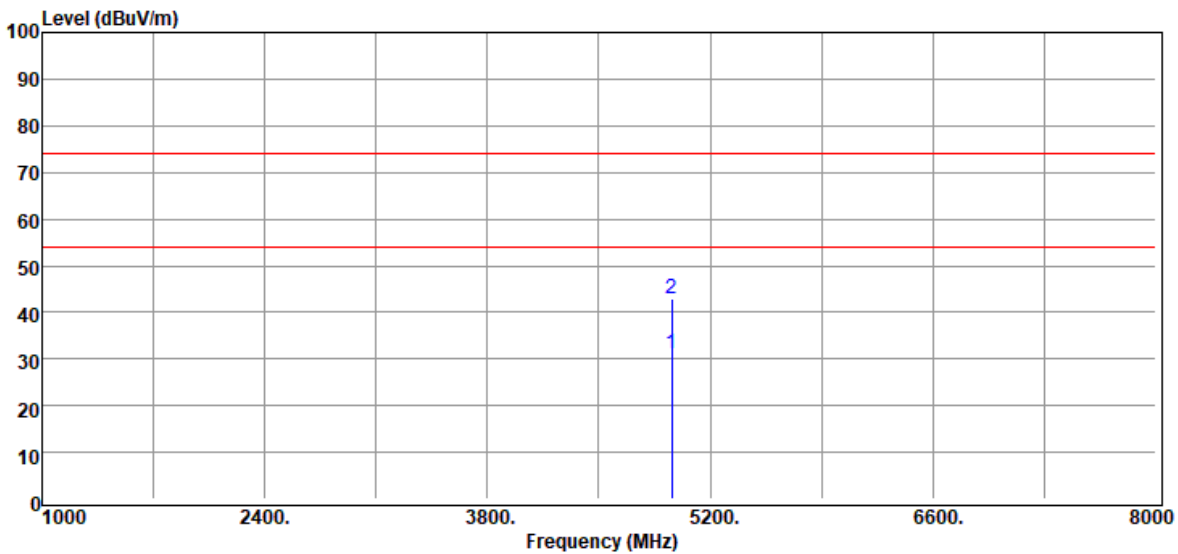
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Report Number :E2/2019/90015
 Operation Mode :BLE 1M
 Test Channel :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :23.7/58
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	19.80	11.31	31.11	54.00	-22.89
4960.00	Peak	31.53	11.31	42.84	74.00	-31.16

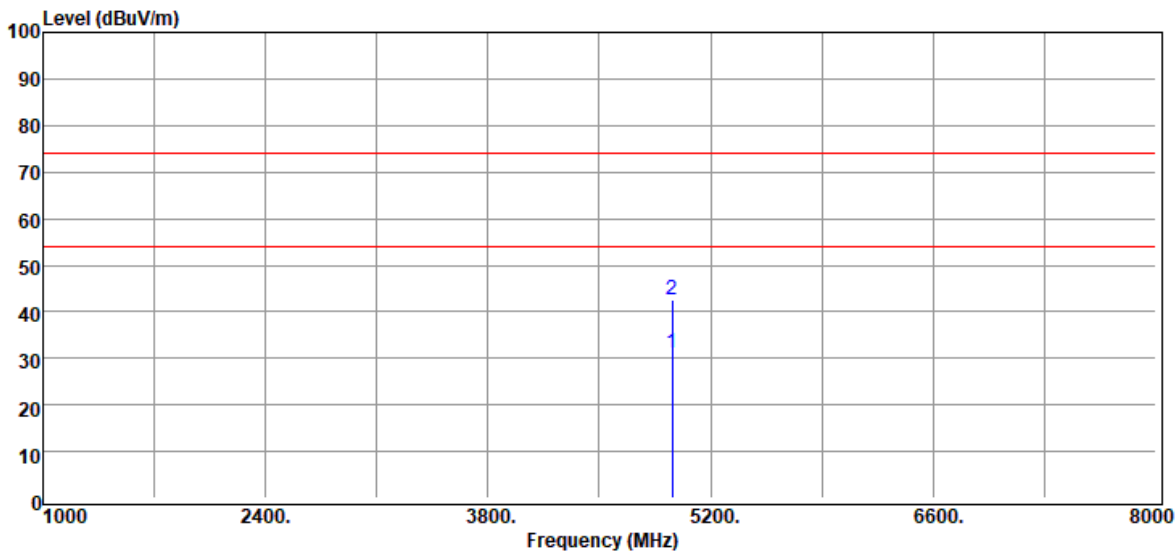
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Report Number :E2/2019/90015
 Operation Mode :BLE 1M
 Test Channel :2480 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :23.7/58
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	19.98	11.31	31.29	54.00	-22.71
4960.00	Peak	31.10	11.31	42.41	74.00	-31.59

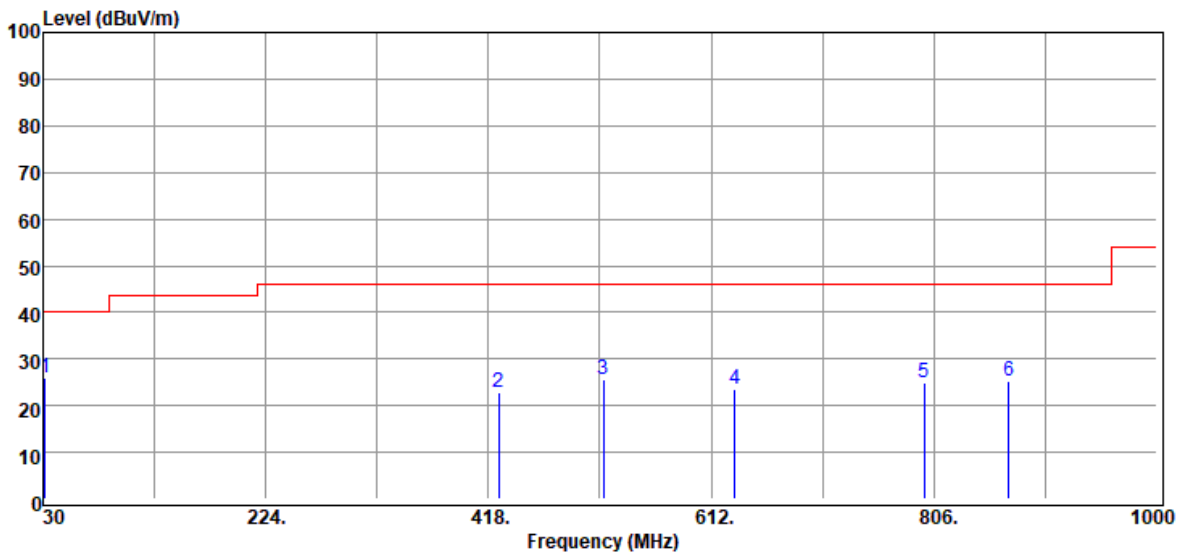
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Report Number :E2/2019/90015
 Operation Mode :802.11b
 Test Channel :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :23.1/60
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.94	Peak	31.05	-5.13	25.92	40.00	-14.08
426.73	Peak	32.84	-9.92	22.92	46.00	-23.08
517.91	Peak	34.55	-8.93	25.62	46.00	-20.38
632.37	Peak	29.73	-6.06	23.67	46.00	-22.33
797.27	Peak	30.09	-5.05	25.04	46.00	-20.96
870.99	Peak	29.21	-3.96	25.25	46.00	-20.75

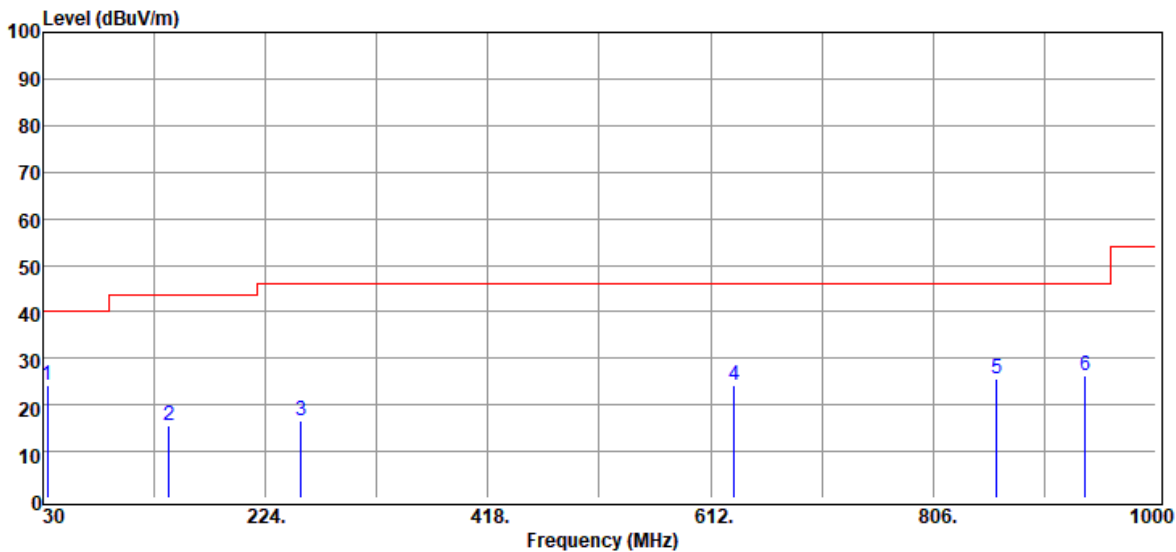
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Report Number :E2/2019/90015
 Operation Mode :802.11b
 Test Channel :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :23.1/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
33.88	Peak	30.42	-6.05	24.37	40.00	-15.63
139.61	Peak	30.35	-14.71	15.64	43.50	-27.86
255.04	Peak	30.13	-13.39	16.74	46.00	-29.26
632.37	Peak	30.32	-6.06	24.26	46.00	-21.74
861.29	Peak	29.50	-3.77	25.73	46.00	-20.27
938.89	Peak	30.26	-3.92	26.34	46.00	-19.66

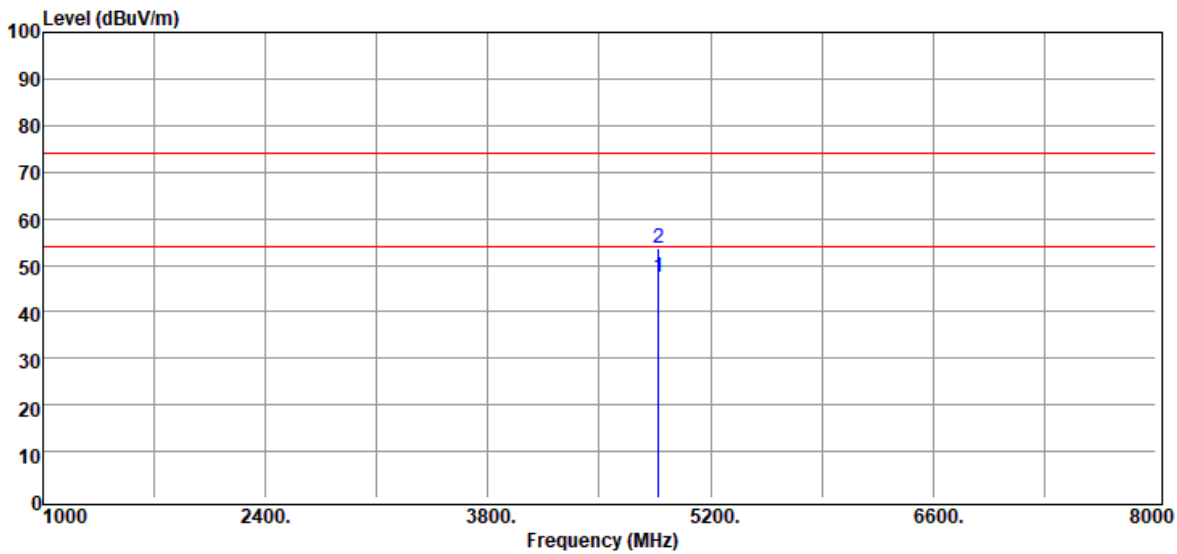
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Report Number :E2/2019/90015
 Operation Mode :802.11b
 Test Channel :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :24.4/56
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	36.47	11.08	47.55	54.00	-6.45
4874.00	Peak	42.72	11.08	53.80	74.00	-20.20

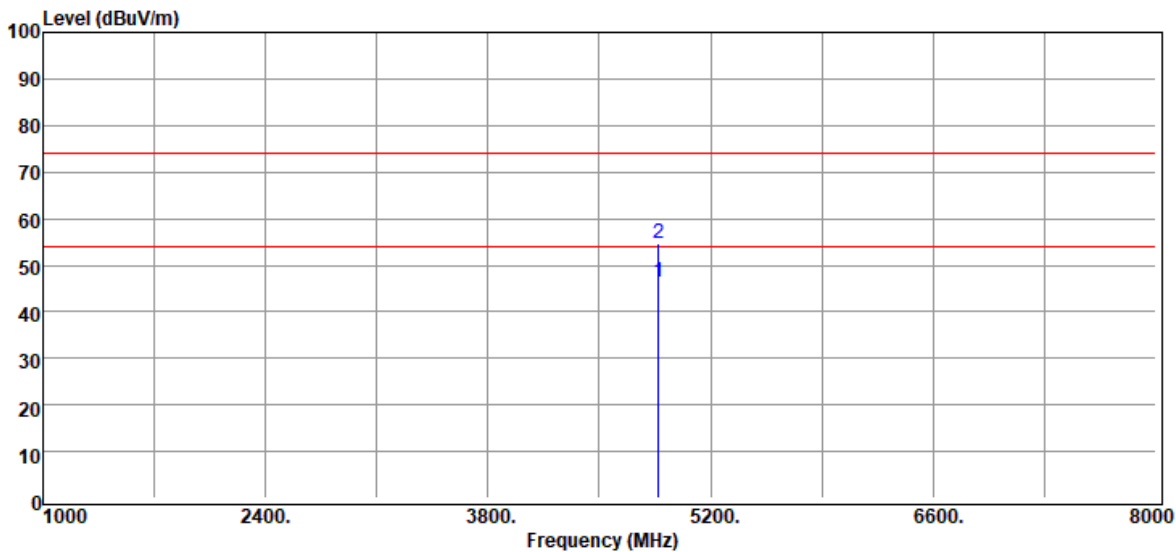
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Report Number :E2/2019/90015
 Operation Mode :802.11b
 Test Channel :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plan

Test Date :2019-09-24
 Temp./Humi. :24.4/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	35.35	11.08	46.43	54.00	-7.57
4874.00	Peak	43.48	11.08	54.56	74.00	-19.44

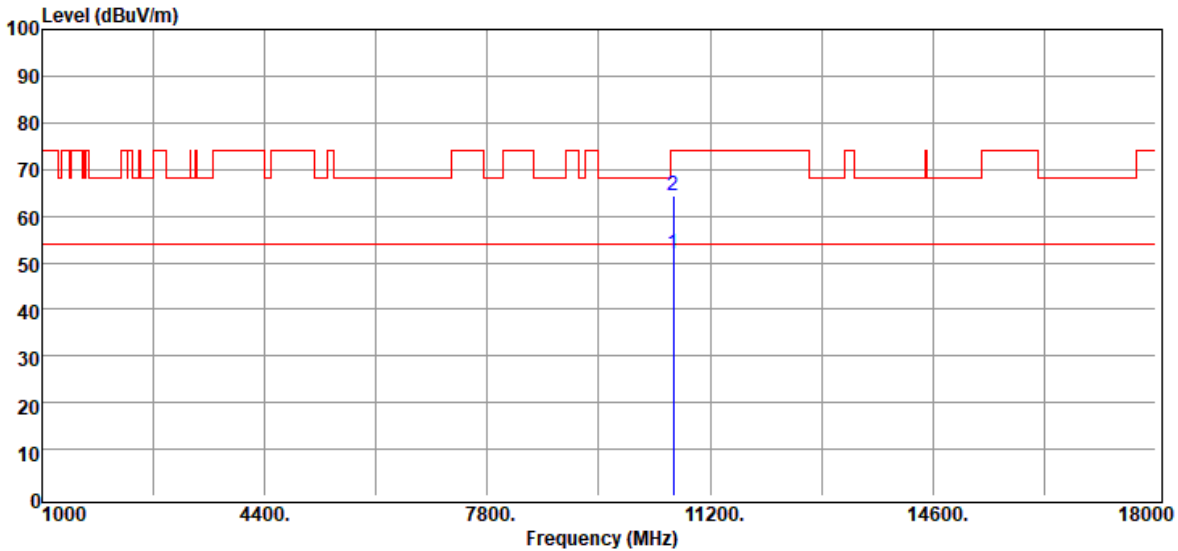
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Report Number :E2/2019/90015
 Operation Mode :802.11a / Band 2
 Test Channel :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-23
 Temp./Humi. :24.3/57
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	28.31	23.75	52.06	54.00	-1.94
10640.00	Peak	40.75	23.75	64.50	74.00	-9.50

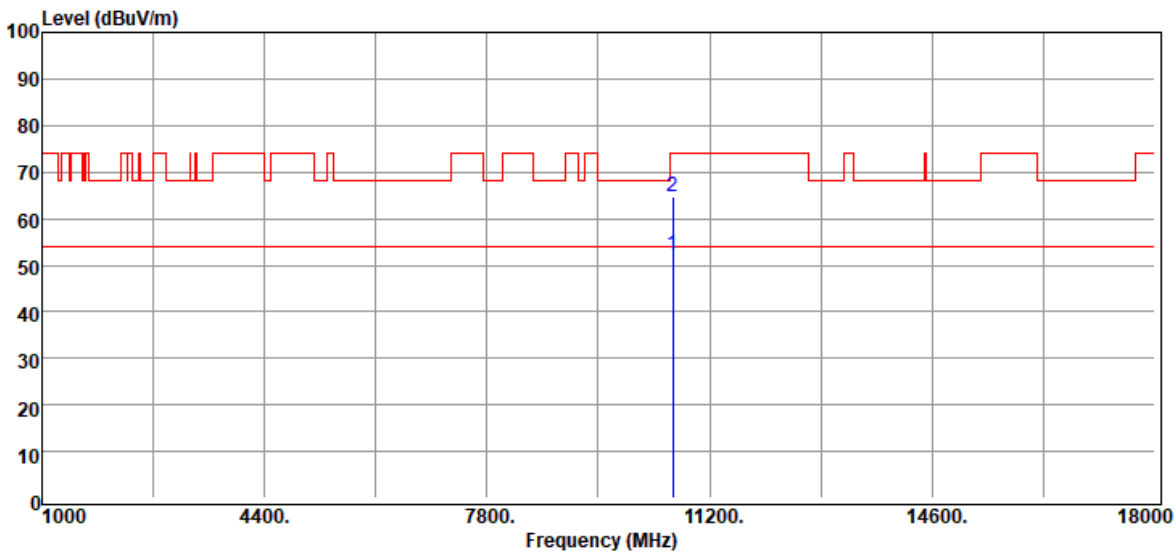
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Report Number :E2/2019/90015
 Operation Mode :802.11a / Band 2
 Test Channel :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plan

Test Date :2019-09-23
 Temp./Humi. :24.3/57
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	28.60	23.75	52.35	54.00	-1.65
10640.00	Peak	40.84	23.75	64.59	74.00	-9.41

~ End of Report ~

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