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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: FUJITSU CONNECTED TECHNOLOGIES Ltd.

Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan

Product Name: Smart Phone **FUJITSU Brand Name:** Model No.: F-52A

Model Difference: N/A

Report Number: ER/2020/90018 FCC ID: 2AQYEFMP180 **FCC Rule Part:** §15.247, Cat: DTS

Sep. 30th, 2020 **Issue Date:**

Date of Test: Sep. 14th, 2020 ~ Sep. 23nd, 2020

Date of EUT Re-

Sep. 14th, 2020

ceived:

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab 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:

Blue Yang / Asst. Manager





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Revision History						
Report Number Revision Description Issue Date Remark						
ER/2020/90018	Rev.00	Original.	Sep. 30th, 2020	Revised By: Tiffany Kao		

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Smart Phone			
Brand Name:	FUJITSU			
Model No.:	F-52A			
Model Difference:	N/A			
Hardware Version:	V2.0.0			
Software Version:	V02R021B-UD			
	3.85Vdc from Rechargeable Li-ion Battery			
Power Supply:	Model No.:CA54310-0081 Battery: Supplier: FUJITSU CONNECTED TECHNOLOGIES LIMITED			

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology		
b			18.07	DSSS		
g	2412-2462	11	21.97	OEDM		
n_HT20			21.95	OFDM		
Modulation	type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
Antenna De	esignation:	λ/4 Mono	λ/4 Monopole Antenna, Peak Gain: -6.5dBi (WLAN#1), -6.0dBi(WLAN#2)			
Transistion Rate 802		802.11 g:	802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n 20MHz: 6.5 – 144.4Mbps			

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.3 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

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 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a 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 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration



Fig. 2-2 Conducted (Antenna Port) Configuration Emission



Fig 2-3 Conduction (AC Power Line) Radiated Emission

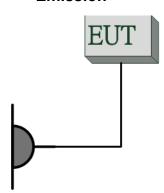


Table 2-1 Equipment Used in Tested System

			10			
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
3	Notebook	Lenovo	T440P	PC-014TAK	Shielded	Unshielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Complements Complement Compleme	
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n 20M.

FREQUENCY
(MHz)
2412
2417
2422
2427
2432
2437
2442
2447
2452
2457
2462

4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. aTest program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation	Tr	Transmission Chain			Multiple Transmission Spatial
⊠ 802.11 b	⊠ Ch0	⊠ Ch1	□ Ch2	□ Ch3	⊠ 2TX
⊠ 802.11 g	⊠ Ch0	⊠ Ch1	□ Ch2	□ Ch3	⊠ 2TX
⊠ 802.11 n	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	⊠ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
RADIATED EMISSION TEST (BELOW 1 GHz)								
802.11g	1 to 11	6	OFDM	6	2TX			
	RADIATED EMISSION TEST (ABOVE 1 GHz)							
802.11b	1 to 11	1, 6, 11	DSSS	1	2TX			
802.11g	1 to 11	1, 6, 11	OFDM	6	2TX			
802.11n20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO			

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

4.4 Antenna Port Conducted Mesurement:

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11b	1 to 11	1, 6, 11	DSSS	1	2TX	
802.11g	1 to 11	1, 6, 11	OFDM	6	2TX	
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 0	MIMO	

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	
AC Power Line Conducted Emission	+/- 2.586 dB	
Peak Output Power	+/- 0.84 dB	
6dB Bandwidth	+/- 51.33 Hz	
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB	
Peak Power Density	+/- 1.3 dB	
Temperature	+/- 0.65 °C	
Humidity	+/- 4.6 %	
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%	

Radiated Spurious Emission Measurement Uncertainty					
	9kHz~30MHz: +-2.3dB				
	30MHz - 180MHz: +/- 3.37dB				
Baladada Wadaal	180MHz -417MHz: +/- 3.19dB				
Polarization: Vertical	0.417GHz-1GHz: +/- 3.19dB				
	1GHz - 18GHz: +/- 4.04dB				
	18GHz - 40GHz: +/- 4.04dB				
	9kHz~30MHz: +-2.3dB				
	30MHz - 167MHz: +/- 4.22dB				
Balad ada a Hadisadal	167MHz -500MHz: +/- 3.44dB				
Polarization: Horizontal	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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CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits dB(uV)				
MHz	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Note

- 1. The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

	-									
Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESCI 7	100759	Jul. 13th, 2020	Jul. 12nd, 2021					
LISN	SCHWARZBECK	NSLK 8127	8127-465	Apr. 9th, 2020	Apr. 8th, 2021					
Coaxial Cables	N/A	Coaxial Cable	161207	Dec, 7th, 2019	Dec. 6th, 2020					
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R					

6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the
- 3. The LISN was connected with 120Vac/60Hz power source.

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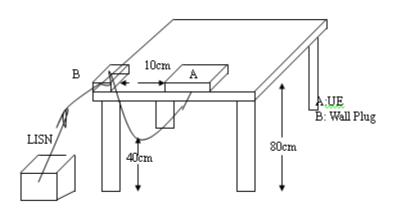
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2020-90018 Test Mode :WLAN2.4G

Power :AC 120V/60Hz

Probe :L

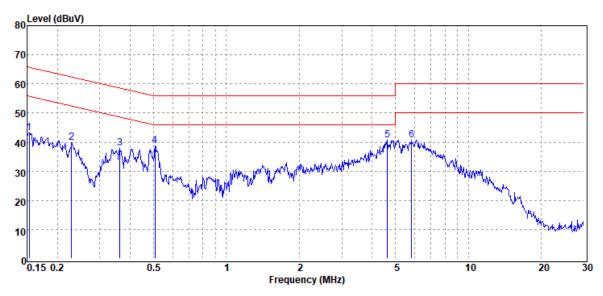
Note:



Test Site :Conduction 6F

Test Date :2020-09-14 Temp./Humi. :25.2/57

Engineer :Nick



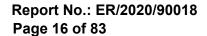
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Peak	40.93	2.14	43.07	65.82	-22.75
0.23	Peak	37.66	2.14	39.80	62.48	-22.68
0.36	Peak	35.87	2.15	38.02	58.65	-20.63
0.51	Peak	36.55	2.16	38.71	56.00	-17.29
4.62	Peak	38.13	2.51	40.64	56.00	-15.36
5.84	Peak	38.01	2.61	40.62	60.00	-19.38

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Report Number :ER-2020-90018

Test Mode :WLAN2.4G

:AC 120V/60Hz Power

Probe :N

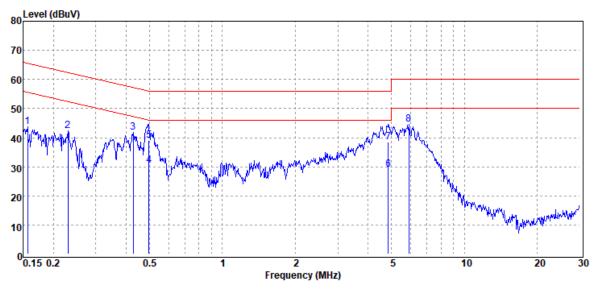
Note:

Test Site :Conduction 6F

Test Date :2020-09-14

Temp./Humi. :25.2/57

Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.16	Peak	41.48	2.21	43.69	65.65	-21.96
0.23	Peak	40.09	2.21	42.30	62.44	-20.14
0.43	Peak	39.69	2.21	41.90	57.29	-15.39
0.50	Average	28.18	2.22	30.40	46.05	-15.65
0.50	QP	36.77	2.22	38.99	56.05	-17.06
4.85	Average	26.50	2.46	28.96	46.00	-17.04
4.85	QP	35.88	2.46	38.34	56.00	-17.66
5.90	Peak	41.92	2.53	44.45	60.00	-15.55

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DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Procedure:

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

7.2 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.35	0.03	0.08	0.01
802.11g	98.21	0.08	0.49	0.01
802.11n_20	97.93	0.09	0.59	1.00

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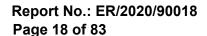
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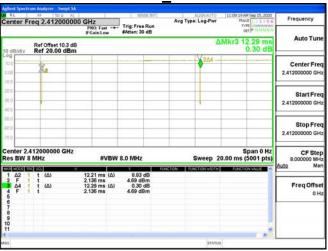
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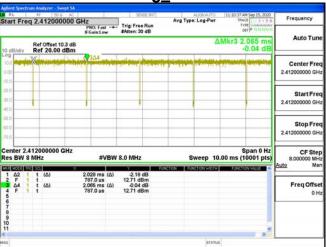


7.3 Duty Cycle test plots

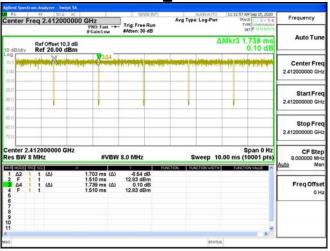
802.11b_20MHz



802.11g_20MHz



802.11n_20MHz



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PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

• Directional Gain =
$$10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $g_{j,k} = /20$ 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

Gk is the gain in dBi of the kth antenna.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

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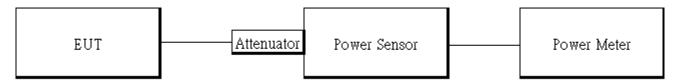
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8.2 Measurement Equipment Used

	Conducted Emission Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
Power Meter	Anritsu	ML2496A	1804001	Feb. 20th, 2020	Feb. 19th, 2021					
Power Sensor	Anritsu	MA2411B	1726104	Feb. 20th, 2020	Feb. 19th, 2021					
Power Sensor	Anritsu	MA2411B	1726107	Feb. 20th, 2020	Feb. 19th, 2021					
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021					

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

* Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.

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8.5 Measurement Result

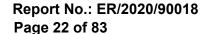
802.1	802.11b Ch0								
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT				
1	2412	1	15.21	30.00	PASS				
6	2437	1	15.40	30.00	PASS				
11	2462	1	15.11	30.00	PASS				
802.1	802.11b Ch0								
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT				
1	2412	1	12.94	30.00	PASS				
6	2437	1	12.86	30.00	PASS				
11	2462	1	12.92	30.00	PASS				

802.1	1b Ch1				
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15.08	30.00	PASS
6	2437	1	15.18	30.00	PASS
11	2462	1	15.36	30.00	PASS
802.1	1b Ch1				
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	12.89	30.00	PASS
6	2437	1	12.78	30.00	PASS
11	2462	1	12.89	30.00	PASS

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802.11b_2TX **Peak Output Total Peak Power** Freq. Data Limit CH **Output Power RESULT** (dBm) (MHz) Rate (dBm) (dBm) CH₀ CH₁ 18.07 30.00 **PASS** 1 2412 1 15.17 14.94 2437 1 14.97 **PASS** 6 15.02 18.01 30.00 17.94 11 2462 1 15.15 14.69 30.00 **PASS** 802.11b_2TX Avg. Output Max. Avg. Output **Power** Freq. Data include tune up Limit CH **RESULT** (dBm) tolerance Power (dBm) (MHz) Rate (dBm) CH₀ CH₁ 2412 1 12.86 12.81 15.87 30.00 **PASS** 1 2437 1 12.64 15.70 30.00 **PASS** 6 12.68 15.73 2462 1 12.76 12.62 30.00 **PASS** 11

802.1	802.11g Ch0									
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT					
1	2412	6	18.44	30.00	PASS					
6	2437	6	18.61	30.00	PASS					
11	2462	6	18.38	30.00	PASS					
802.1	1g Ch0									
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT					
1	2412	6	13.79	30.00	PASS					
6	2437	6	13.72	30.00	PASS					
11	2462	6	13.92	30.00	PASS					

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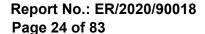
802.1	802.11g Ch1								
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT				
1	2412	6	18.73	30.00	PASS				
6	2437	6	18.54	30.00	PASS				
11	2462	6	18.51	30.00	PASS				
802.1	1g Ch1								
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT				
1	2412	6	13.76	30.00	PASS				
6	2437	6	13.61	30.00	PASS				
11	2462	6	13.71	30.00	PASS				

802.1	1g_2TX						
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1	(3.2.1.)		
1	2412	6	19.18	18.73	21.97	30.00	PASS
6	2437	6	18.97	18.56	21.78	30.00	PASS
11	2462	6	19.10	18.69	21.91	30.00	PASS
802.1	1g_2TX						
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm)	Max. Avg. Output include tune up tolerance Power	Limit (dBm)	RESULT
			CH 0	CH 1	(dBm)		
1	2412	6	13.91	13.86	16.97	30.00	PASS
6	2437	6	13.86	13.79	16.91	30.00	PASS
11	2462	6	13.90	13.85	16.96	30.00	PASS

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802.11n_HT20M Ch0 **Peak Output** Freq. Data Limit CH **Power RESULT** (dBm) (MHz) Rate (dBm) MCS0 18.89 **PASS** 1 2412 30.00 2437 MCS0 18.60 30.00 **PASS** 6 11 2462 MCS0 18.77 30.00 **PASS** 802.11n HT20M Ch0 Max. Avg. Output Freq. include tune up Data Limit CH **RESULT** tolerance Power (dBm) (MHz) Rate (dBm) MCS₀ 13.97 30.00 **PASS** 1 2412 **PASS** 6 2437 MCS0 13.88 30.00 MCS0 13.93 30.00 **PASS** 11 2462

802.1	802.11n_HT20M Ch1								
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	19.15	30.00	PASS				
6	2437	MCS0	19.05	30.00	PASS				
11	2462	MCS0	19.06	30.00	PASS				
802.1	1n_HT20	M Ch1							
СН	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT				
1	2412	MCS0	13.95	30.00	PASS				
6	2437	MCS0	13.77	30.00	PASS				
11	2462	MCS0	13.90	30.00	PASS				

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802.1	802.11n_HT20M MIMO						
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Power Output Power		RESULT
			CH 0	CH 1	` ,		
1	2412	MCS8	19.19	18.68	21.95	30.00	PASS
6	2437	MCS8	18.98	18.61	21.81	30.00	PASS
11	2462	MCS8	19.01	18.68	21.86	30.00	PASS
802.1	1n_HT20	M MIMO					
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power	Limit (dBm)	RESULT
			CH 0	CH 1	(dBm)		
1	2412	MCS8	13.97	13.76	16.97	30.00	PASS
6	2437	MCS8	13.87	13.65	16.86	30.00	PASS
11	2462	MCS8	13.84	13.76	16.90	30.00	PASS

^{*} Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.

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9 6DB BANDWIDTH MEASUREMENT

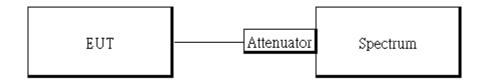
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	May 6th, 2020	May 5th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

9.3 Test Set-up



9.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:
 - Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = large enough to capture all products of the modulation process, Detector=peak, Sweep=auto.
- 5. Mark the peak frequency and –6dB (upper and lower) frequency.

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9.5 6dB Bandwidth

802.11b Ch0

802.11b Ch1

000				
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	
2412	8590.00	> 500	PASS	
2437	8551.00	> 500	PASS	
2462	8597.00	> 500	PASS	

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9064.00	> 500	PASS
2437	9048.00	> 500	PASS
2462	8115.00	> 500	PASS

802.11g Ch0

802.11q Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15360.00	> 500	PASS
2437	15320.00	> 500	PASS
2462	15340.00	> 500	PASS

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15170.00	> 500	PASS
2437	15910.00	> 500	PASS
2462	15730.00	> 500	PASS

802.11_n_HT20 Ch0

802.11_n_HT20 Ch1

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Resuit
2412	15380.00	> 500	PASS
2437	16090.00	> 500	PASS
2462	15170.00	> 500	PASS

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15190.00	> 500	PASS
2437	16420.00	> 500	PASS
2462	15830.00	> 500	PASS

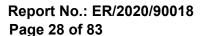
*Refer to next page for plots

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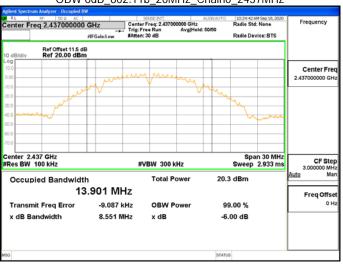
OBW 6dB_802.11b_20MHz_Chain0_2412MHz



OBW 6dB_802.11b_20MHz_Chain1_2412MHz



OBW 6dB_802.11b_20MHz_Chain0_2437MHz



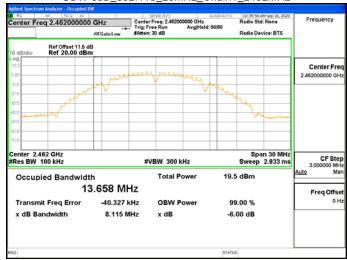
OBW 6dB_802.11b_20MHz_Chain1_2437MHz



OBW 6dB 802.11b 20MHz Chain0 2462MHz



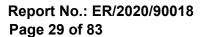
OBW 6dB 802.11b 20MHz Chain1 2462MHz



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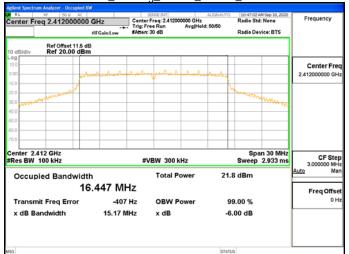




OBW 6dB_802.11g_20MHz_Chain0_2412MHz



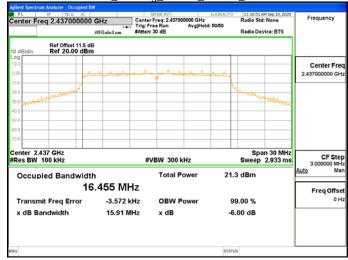
OBW 6dB_802.11g_20MHz_Chain1_2412MHz



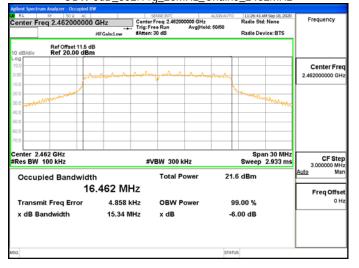
OBW 6dB_802.11g_20MHz_Chain0_2437MHz



OBW 6dB_802.11g_20MHz_Chain1_2437MHz



OBW 6dB 802.11g 20MHz Chain0 2462MHz



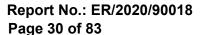
OBW 6dB 802.11g 20MHz Chain1 2462MHz



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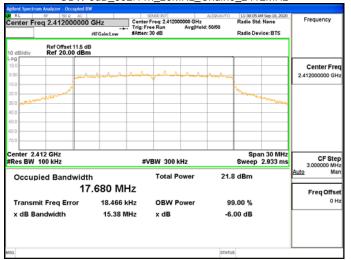
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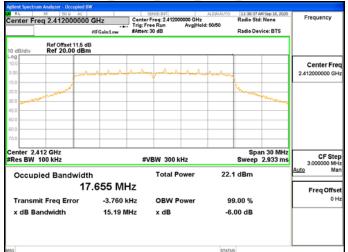




OBW 6dB_802.11n_20MHz_Chain0_2412MHz



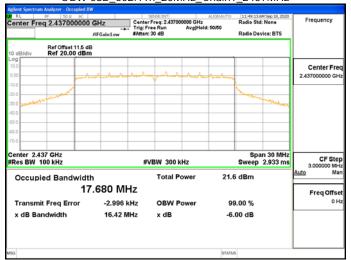
OBW 6dB_802.11n_20MHz_Chain1_2412MHz



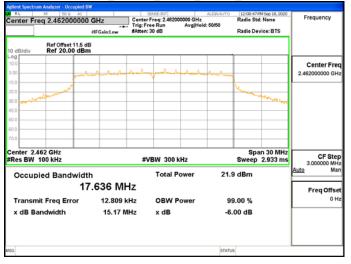
OBW 6dB_802.11n_20MHz_Chain0_2437MHz



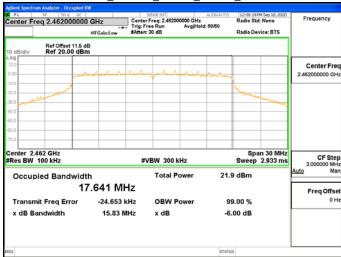
OBW 6dB_802.11n_20MHz_Chain1_2437MHz



OBW 6dB 802.11n 20MHz Chain0 2462MHz



OBW 6dB_802.11n_20MHz_Chain1_2462MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

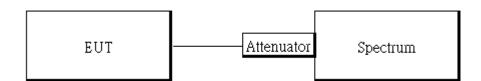
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT MFR MODEL SERIAL LAST CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	May 6th, 2020	May 5th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

10.3 Test SET-UP



10.4 Measurement Procedure

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Reference Level of Emission Limit:

- Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Conducted Band Edge:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna.

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Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.
- 7. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna

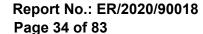
Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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10.5 Measurement Result

Reference Level of Limit 802.11b mode			
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	
2412	6.96	-13.04	
2437	7.59	-12.41	
2462	7.28	-12.72	

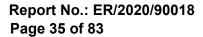
Refere	Reference Level of Limit 802.11g mode			
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)		
2412	7.27	-12.73		
2437	8.01	-11.99		
2462	7.69	-12.31		

Reference Level of Limit 802.11n20 mode			
Freq.	PSD	Reference Level of Limit	
(MHz)	(dBm)	(dBm)	
2412	7.84	-12.16	
2437	8.06	-11.94	
2462	7.87	-12.13	

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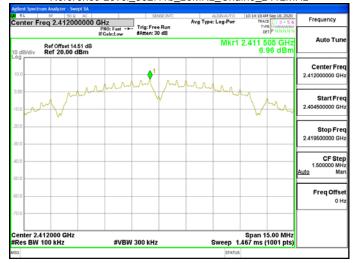
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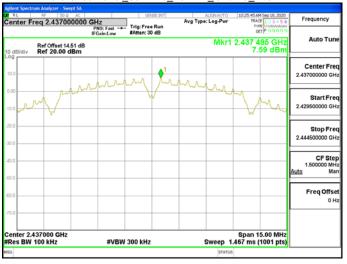
Reference Level_802.11b_20MHz_Chain0_2412MHz



Reference Level_802.11g_20MHz_Chain0_2412MHz



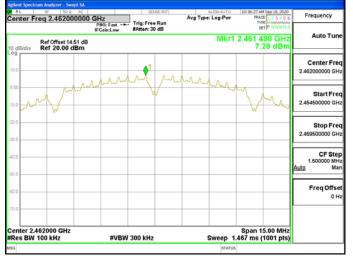
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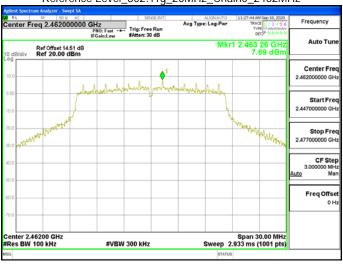
Reference Level_802.11g_20MHz_Chain0_2437MHz



Reference Level 802.11b 20MHz Chain0 2462MHz



Reference Level 802.11g 20MHz Chain0 2462MHz



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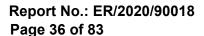
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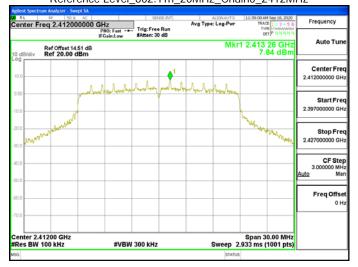
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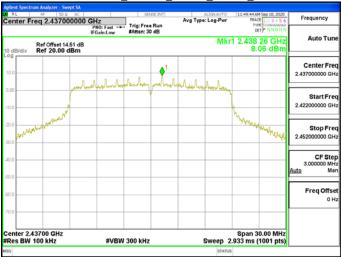




Reference Level_802.11n_20MHz_Chain0_2412MHz



Reference Level_802.11n_20MHz_Chain0_2437MHz



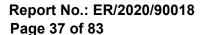
Reference Level 802.11n 20MHz Chain0 2462MHz



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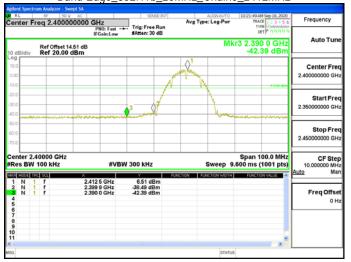
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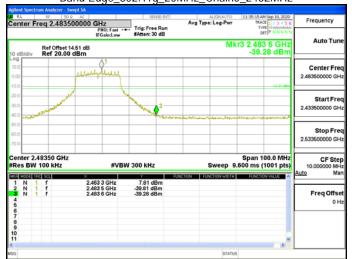




Band Edge_802.11b_20MHz_Chain0_2412MHz



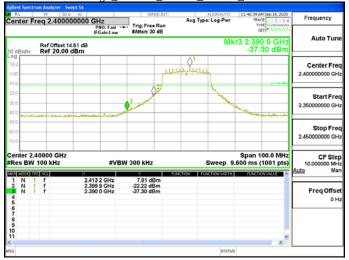
Band Edge_802.11g_20MHz_Chain0_2462MHz



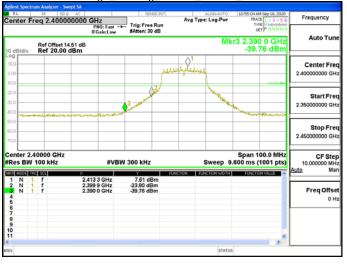
Band Edge 802.11b 20MHz Chain0 2462MHz



Band Edge_802.11n_20MHz_Chain0_2412MHz



Band Edge_802.11g_20MHz_Chain0_2412MHz



Band Edge_802.11n_20MHz_Chain0_2462MHz



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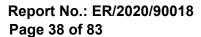
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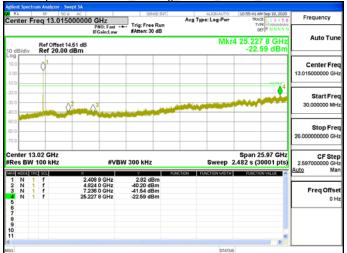




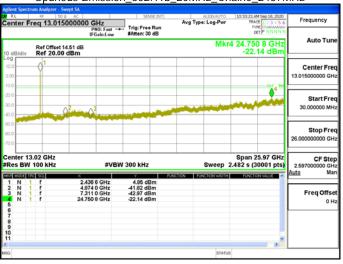
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Spurious Emission_802.11g_20MHz_Chain0_2412MHz



Spurious Emission_802.11b_20MHz_Chain0_2437MHz



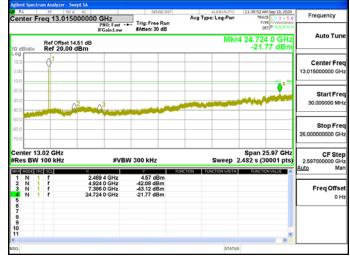
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Spurious Emission_802.11b_20MHz_Chain0_2462MHz



Spurious Emission_802.11g_20MHz_Chain0_2462MHz



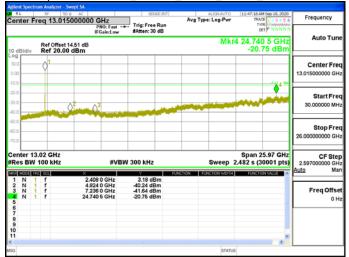
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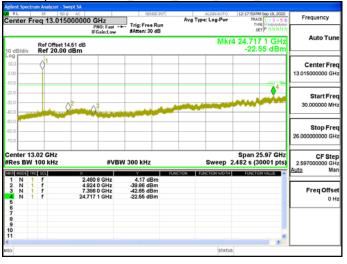
Spurious Emission_802.11n_20MHz_Chain0_2412MHz



Spurious Emission_802.11n_20MHz_Chain0_2437MHz







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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)

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11.2 Measurement Equipment Used:

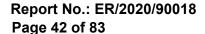
	966 Chamber								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Horn Antenna	Schwarzbeck	BBHA9170	184	Dec. 25th, 2019	Dec. 24th, 2020				
Horn Antenna	Schwarzbeck	BBHA9120D	603	Apr. 29th, 2020	Apr. 28th, 2021				
Bi-log Antenna	SCHWAZBECK	VULB9168	378	Aug. 6th, 2020	Aug. 5th, 2021				
Loop Antenna	ETS.LINDGREN	6502	148045	Oct. 15th, 2019	Oct. 14th, 2020				
3m Site NSA	SGS	966 chamber	N/A	Jan. 2nd, 2020	Jan. 1st, 2021				
PXA Spectrum Ana- lyzer	Agilent	N9030A	MY53120760	Apr. 21st, 2020	Apr. 20th, 2021				
EMI Test Receiver	R&S	ESCI 7	100759	Jul. 13th, 2020	Jul. 12nd, 2021				
Pre-Amplifier	EMC Instruments	EMC184045B	980135	Jan. 2nd, 2020	Jan. 1st, 2021				
Pre-Amplifier	HP	8447D	2944A09469	Jan. 2nd, 2020	Jan. 1st, 2021				
Attenuator	Mini-Circuit	BW-S10W2+	4	Jan. 2nd, 2020	Jan. 1st, 2021				
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	Jan. 2nd, 2020	Jan. 1st, 2021				
High Pass Filter	WI	WHKX4.0/18G-10S S	22	Jan. 2nd, 2020	Jan. 1st, 2021				
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	Jan. 2nd, 2020	Jan. 1st, 2021				
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	Jan. 2nd, 2020	Jan. 1st, 2021				
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	Jan. 2nd, 2020	Jan. 1st, 2021				
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R				

NOTE: N.C.R refers to Not Calibrated Required.

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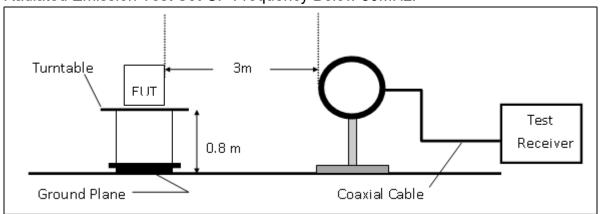
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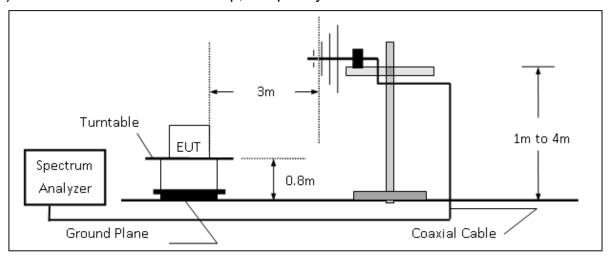
SGS

11.3 Test SET-UP

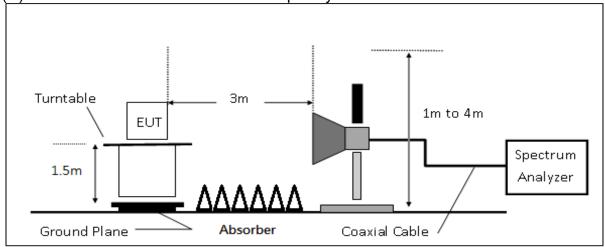
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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11.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 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=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1
- 8. 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.
- 9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. 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.
- 12. Repeat above procedures until all default test channel measured were complete.

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11.5 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

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

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

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

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note:

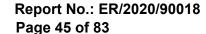
- 1. Refer to next page spectrum analyzer data chart and tabular data sheets.
- 2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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11.7.1 Radiated Band Edge Measurement Result

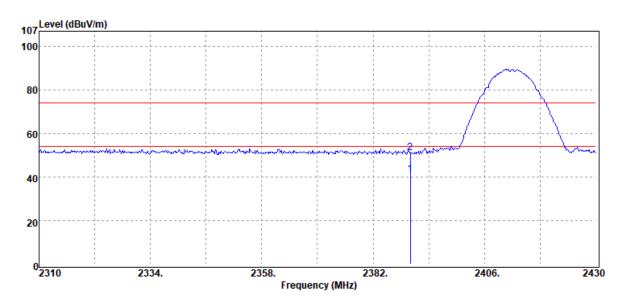
Report Number **Test Site** :SAC III Chamber :ER-2020-90018

Operation Mode :802.11b **Test Date** :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick



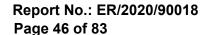
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	40.23	0.92	41.15	54.00	-12.85
2390.00	Peak	50.00	0.92	50.92	74.00	-23.08

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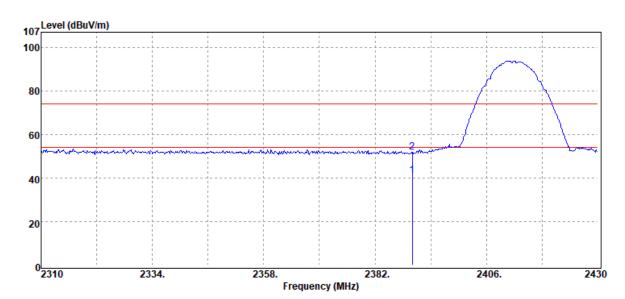
Report Number **Test Site** :SAC III Chamber :ER-2020-90018

Test Date Operation Mode :802.11b :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick



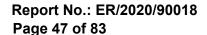
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	40.18	0.92	41.10	54.00	-12.90
2390.00	Peak	50.99	0.92	51.91	74.00	-22.09

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Report Number :ER-2020-90018

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

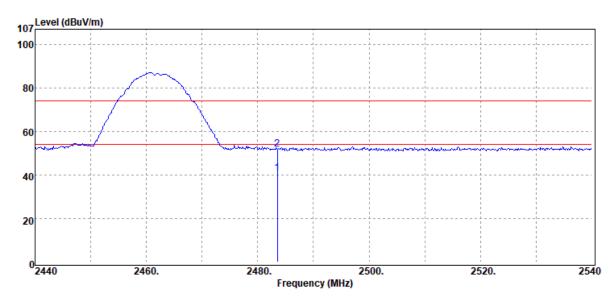
Test Site :SAC III Chamber

Test Date :2020-09-16

Temp./Humi. :25.1/61

Antenna Pol. :VERTICAL

Engineer :Nick

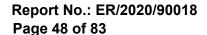


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	40.09	0.67	40.76	54.00	-13.24
2483.50	Peak	51.22	0.67	51.89	74.00	-22.11

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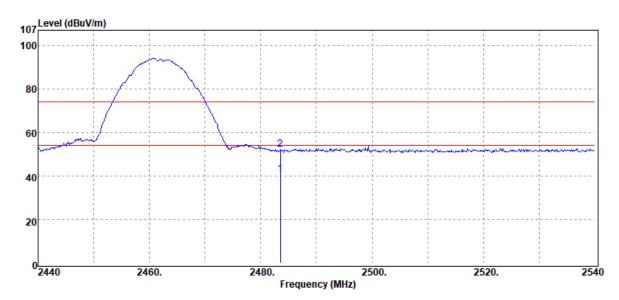


Operation Mode :802.11b Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

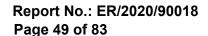


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	40.21	0.67	40.88	54.00	-13.12
2483.50	Peak	51.56	0.67	52.23	74.00	-21.77

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Report Number :ER-2020-90018

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :E2 Plane

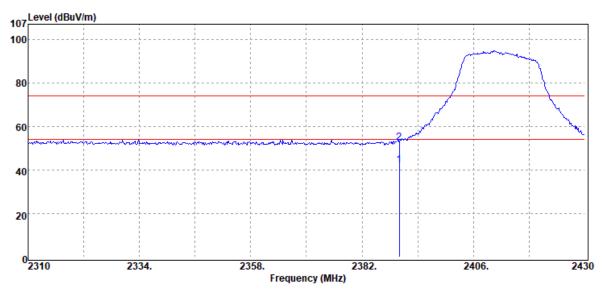
Test Site :SAC III Chamber

Test Date :2020-09-16

Temp./Humi. :25.1/61

Antenna Pol. :VERTICAL

Engineer :Nick

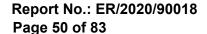


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	41.34	0.92	42.26	54.00	-11.74
2390.00	Peak	51.78	0.92	52.70	74.00	-21.30

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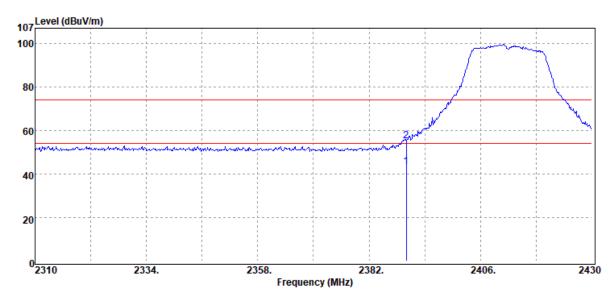
Report Number **Test Site** :SAC III Chamber :ER-2020-90018

Test Date Operation Mode :802.11g :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick



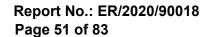
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	42.33	0.92	43.25	54.00	-10.75
2390.00	Peak	54.14	0.92	55.06	74.00	-18.94

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Report Number :ER-2020-90018

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

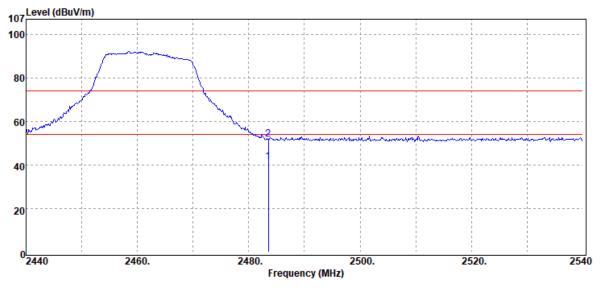
Test Site :SAC III Chamber

Test Date :2020-09-16

Temp./Humi. :25.1/61

Antenna Pol. :VERTICAL

Engineer :Nick

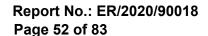


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	40.67	0.67	41.34	54.00	-12.66
2483.50	Peak	51.20	0.67	51.87	74.00	-22.13

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Report Number :ER-2020-90018

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :E2 Plane

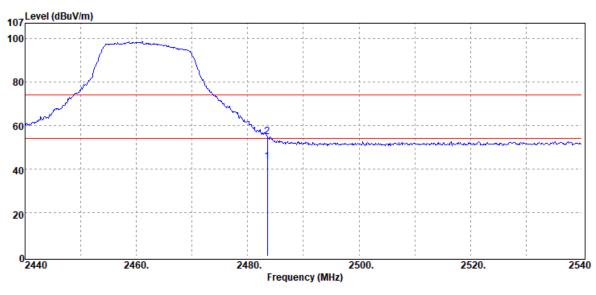
Test Site :SAC III Chamber

Test Date :2020-09-16

Temp./Humi. :25.1/61

Antenna Pol. :HORIZONTAL

Engineer :Nick

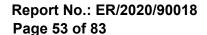


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.49	0.67	43.16	54.00	-10.84
2483.50	Peak	54.22	0.67	54.89	74.00	-19.11

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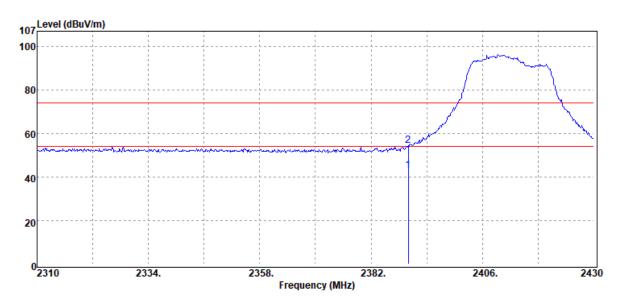


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick



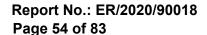
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	41.99	0.92	42.91	54.00	-11.09
2390.00	Peak	53.47	0.92	54.39	74.00	-19.61

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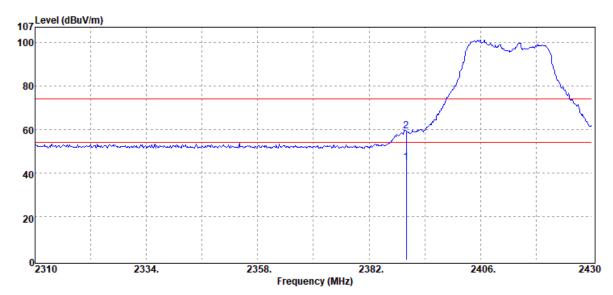
Report Number **Test Site** :SAC III Chamber :ER-2020-90018

Test Date Operation Mode :802.11n20 :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2390.00	Average	43.88	0.92	44.80	54.00	-9.20
2390.00	Peak	58.50	0.92	59.42	74.00	-14.58

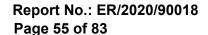
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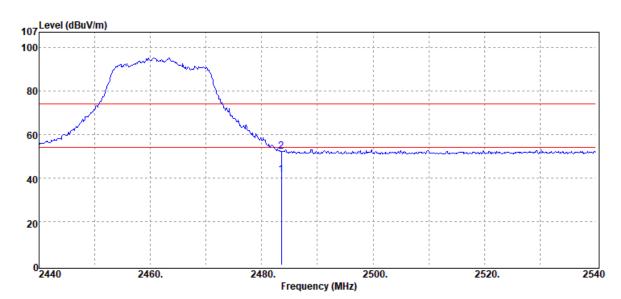


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick

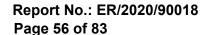


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2483.50	Average	40.98	0.67	41.65	54.00	-12.35
2483.50	Peak	51.63	0.67	52.30	74.00	-21.70

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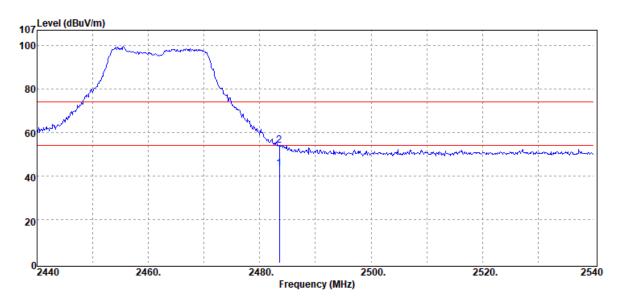


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.75	0.67	43.42	54.00	-10.58
2483.50	Peak	53.49	0.67	54.16	74.00	-19.84

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11.7.2 Below 1GHz Worst-Case Emission:

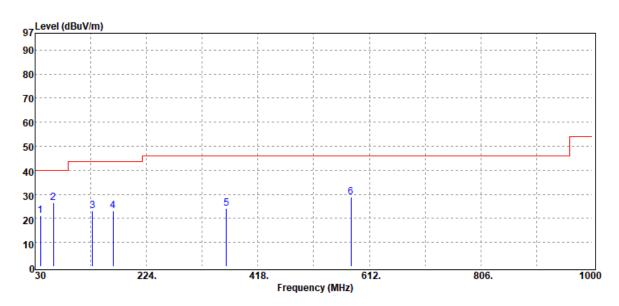
Report Number **Test Site** :SAC III Chamber :ER-2020-90018

Operation Mode :802.11g **Test Date** :2020-09-16

Test Frequency :2437 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Mid Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick



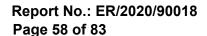
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBμV/m	dB
39.70	Peak	29.77	-8.53	21.24	40.00	-18.76
62.01	Peak	35.44	-9.06	26.38	40.00	-13.62
129.91	Peak	31.79	-8.55	23.24	43.50	-20.26
165.80	Peak	30.55	-7.50	23.05	43.50	-20.45
362.71	Peak	29.01	-4.82	24.19	46.00	-21.81
579.99	Peak	29.07	-0.19	28.88	46.00	-17.12

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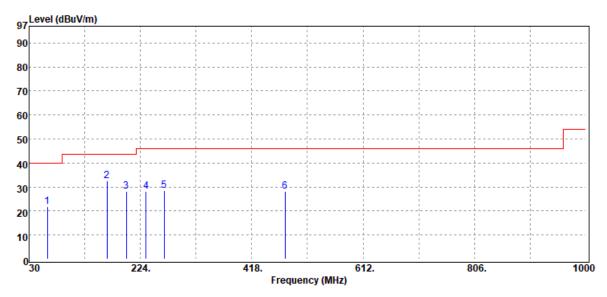
Report Number **Test Site** :SAC III Chamber :ER-2020-90018

Operation Mode :802.11g **Test Date** :2020-09-16

Test Frequency :2437 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Mid Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
62.01	Peak	30.84	-9.06	21.78	40.00	-18.22
165.80	Peak	39.98	-7.50	32.48	43.50	-11.02
199.75	Peak	37.93	-9.64	28.29	43.50	-15.21
233.70	Peak	36.85	-8.62	28.23	46.00	-17.77
265.71	Peak	35.68	-7.25	28.43	46.00	-17.57
476.20	Peak	30.60	-2.41	28.19	46.00	-17.81

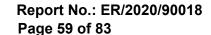
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11.7.3 Above 1GHz Emission:

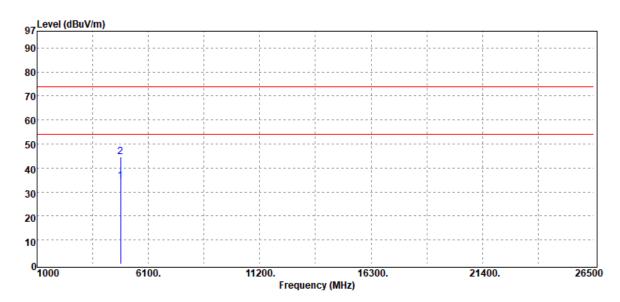
Report Number :ER-2020-90018 Test Site :SAC III Chamber

Operation Mode :802.11b Test Date :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick



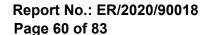
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	27.28	7.13	34.41	54.00	-19.59
4824.00	Peak	37.41	7.13	44.54	74.00	-29.46

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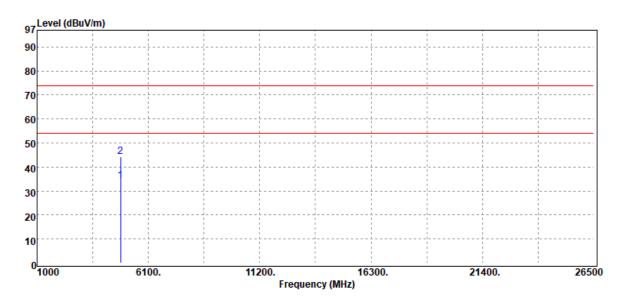


Operation Mode :802.11b Test Date :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

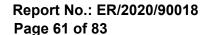


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBμV/m	dB
4824.00	Average	27.24	7.13	34.37	54.00	-19.63
4824.00	Peak	37.17	7.13	44.30	74.00	-29.70

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Report Number :ER-2020-90018

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Tx CH Mid

EUT Pol :E2 Plane

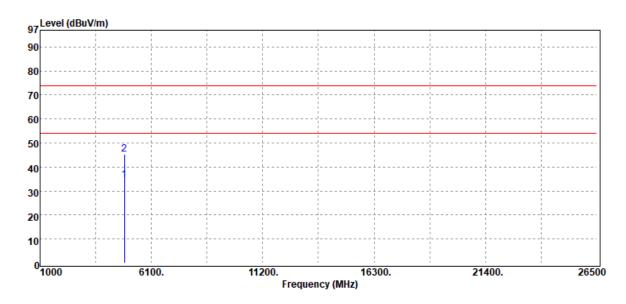
Test Site :SAC III Chamber

Test Date :2020-09-16

Temp./Humi. :25.1/61

Antenna Pol. :VERTICAL

Engineer :Nick

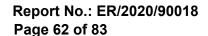


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Average	27.14	7.51	34.65	54.00	-19.35
4874.00	Peak	37.84	7.51	45.35	74.00	-28.65

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Report Number :ER-2020-90018

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Tx CH Mid

EUT Pol :E2 Plane

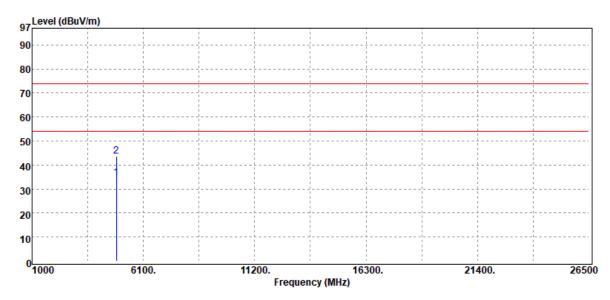
Test Site :SAC III Chamber

Test Date :2020-09-16

Temp./Humi. :25.1/61

Antenna Pol. :HORIZONTAL

Engineer :Nick

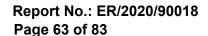


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4874.00	Average	27.09	7.51	34.60	54.00	-19.40
4874.00	Peak	36.15	7.51	43.66	74.00	-30.34

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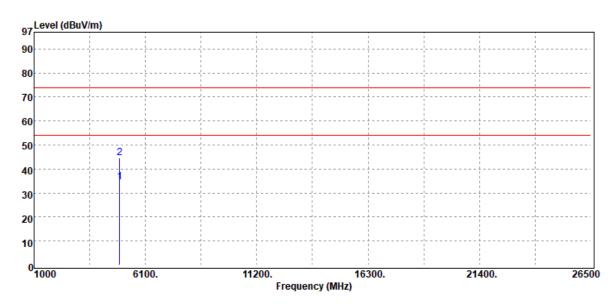


Operation Mode :802.11b Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick

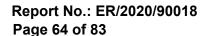


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	26.77	7.84	34.61	54.00	-19.39
4924.00	Peak	36.91	7.84	44.75	74.00	-29.25

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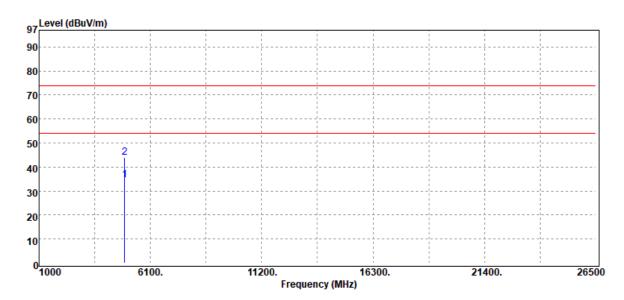


Operation Mode :802.11b Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

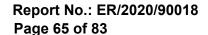


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	26.83	7.84	34.67	54.00	-19.33
4924.00	Peak	36.19	7.84	44.03	74.00	-29.97

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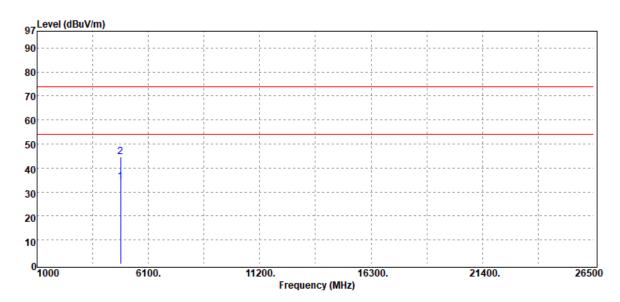


Operation Mode :802.11g Test Date :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick

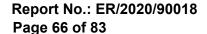


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	27.25	7.13	34.38	54.00	-19.62
4824.00	Peak	37.44	7.13	44.57	74.00	-29.43

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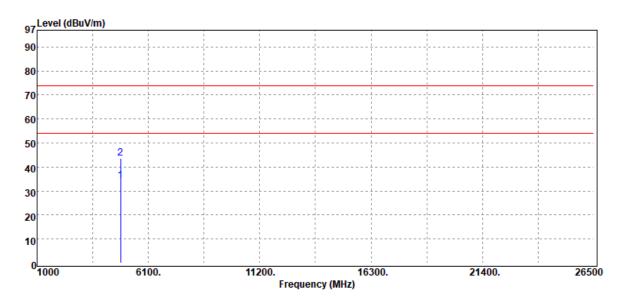


Operation Mode :802.11g Test Date :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

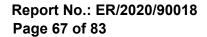


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	27.19	7.13	34.32	54.00	-19.68
4824.00	Peak	36.62	7.13	43.75	74.00	-30.25

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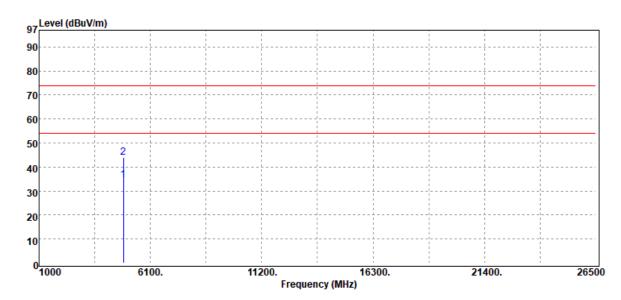


Operation Mode :802.11g Test Date :2020-09-16

Test Frequency :2437 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Mid Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick

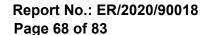


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4874.00	Average	27.11	7.51	34.62	54.00	-19.38
4874.00	Peak	36.57	7.51	44.08	74.00	-29.92

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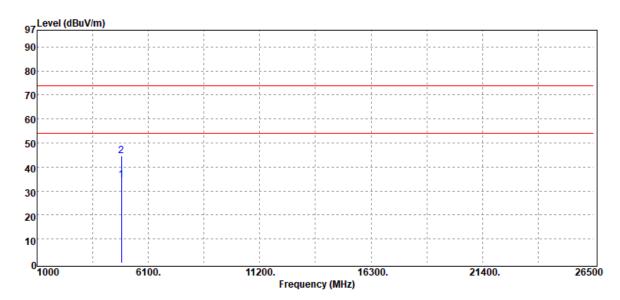


Operation Mode :802.11g Test Date :2020-09-16

Test Frequency :2437 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Mid Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

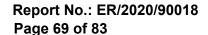


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4874.00	Average	27.08	7.51	34.59	54.00	-19.41
4874.00	Peak	37.08	7.51	44.59	74.00	-29.41

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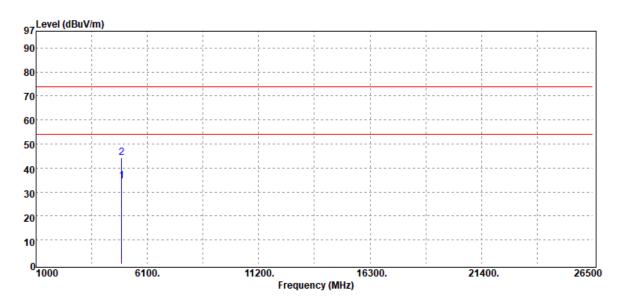


Operation Mode :802.11g Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick

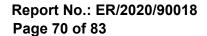


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	26.75	7.84	34.59	54.00	-19.41
4924.00	Peak	36.38	7.84	44.22	74.00	-29.78

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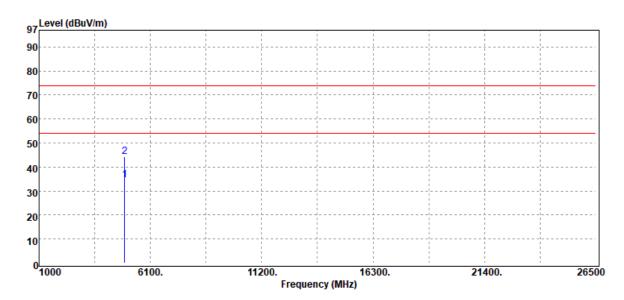


Operation Mode :802.11g Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

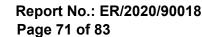


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	26.76	7.84	34.60	54.00	-19.40
4924.00	Peak	36.50	7.84	44.34	74.00	-29.66

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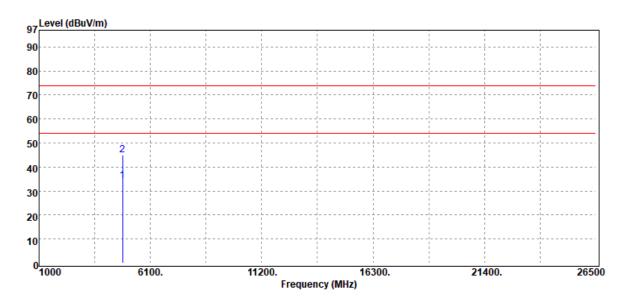
Report Number **Test Site** :SAC III Chamber :ER-2020-90018

Operation Mode :802.11n20 **Test Date** :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick



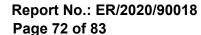
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4824.00	Average	27.22	7.13	34.35	54.00	-19.65
4824.00	Peak	37.83	7.13	44.96	74.00	-29.04

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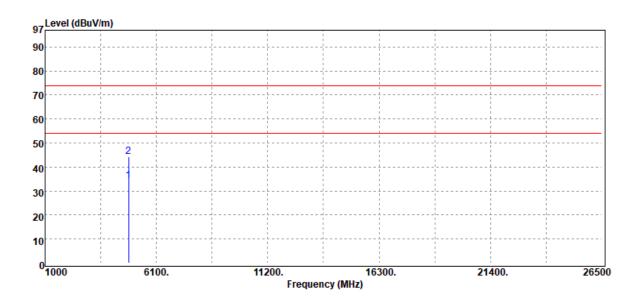


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2412 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

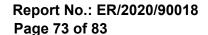


	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
	4824.00	Average	27.20	7.13	34.33	54.00	-19.67
	4824.00	Peak	37.08	7.13	44.21	74.00	-29.79

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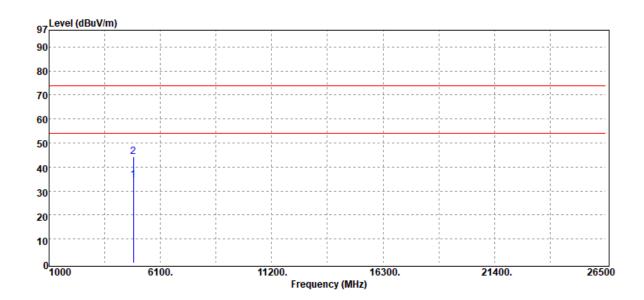


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2437 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Mid Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick

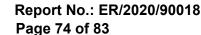


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4874.00	Average	27.10	7.51	34.61	54.00	-19.39
4874.00	Peak	36.66	7.51	44.17	74.00	-29.83

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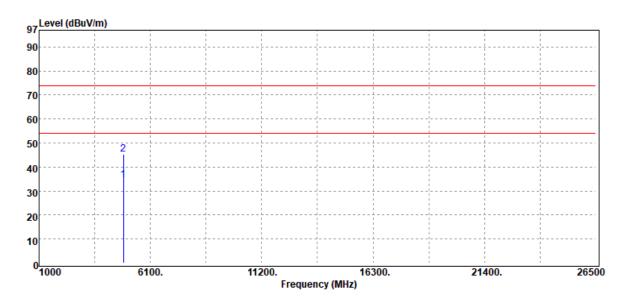


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2437 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH Mid Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick

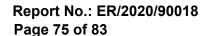


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4874.00	Average	27.06	7.51	34.57	54.00	-19.43
4874.00	Peak	37.68	7.51	45.19	74.00	-28.81

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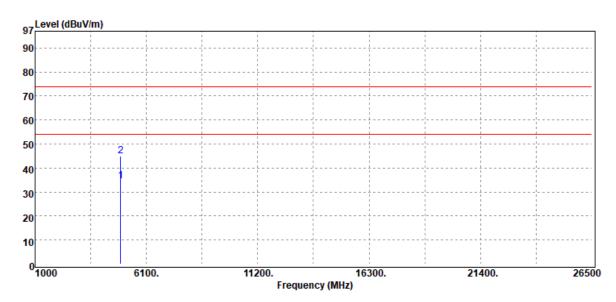


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Nick

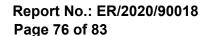


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBμV/m	dB
4924.00	Average	26.74	7.84	34.58	54.00	-19.42
4924.00	Peak	37.06	7.84	44.90	74.00	-29.10

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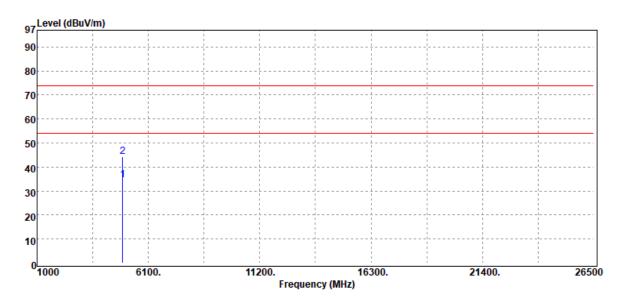


Operation Mode :802.11n20 Test Date :2020-09-16

Test Frequency :2462 MHz Temp./Humi. :25.1/61

Test Mode :Tx CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4924.00	Average	26.76	7.84	34.60	54.00	-19.40
4924.00	Peak	36.48	7.84	44.32	74.00	-29.68

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

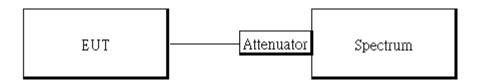
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	May 6th, 2020	May 5th, 2021			
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021			
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021			

12.3 Test Set-up



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12.4 Measurement Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- Set the RBW = 3 kHz & VBW = 10 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

12.5 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

• Directional Gain =
$$10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $g_{j,k} = /20$ 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

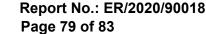
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12.6 Power spectral density

	POWER DENSITY 802.11b							
Freq.	Ch0	Ch1	PSD	Limit	Result			
(MHz)	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Result			
2412	-9.62	-10.64	-7.09	8.00	PASS			
2437	-9.98	-10.74	-7.33	8.00	PASS			
2462	-10.33	-9.03	-6.62	8.00	PASS			

POWER DENSITY 802.11g								
Freq.	Ch0	Ch1	PSD	Limit	Result			
(MHz)	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Result			
2412	-11.16	-10.17	-7.63	8.00	PASS			
2437	-10.59	-11.13	-7.84	8.00	PASS			
2462	-11.01	-10.16	-7.55	8.00	PASS			

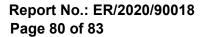
POWER DENSITY 802.11n HT20								
Freq.	Ch0	Ch1	PSD	Limit	Result			
(MHz)	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Result			
2412	-12.5	-10.26	-8.23	8.00	PASS			
2437	-11.11	-12.21	-8.61	8.00	PASS			
2462	-12.37	-10.73	-8.46	8.00	PASS			

^{*}Refer to next page for plots

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Power Density_802.11b_20MHz_Chain0_2412MHz



Power Density_802.11b_20MHz_Chain1_2412MHz



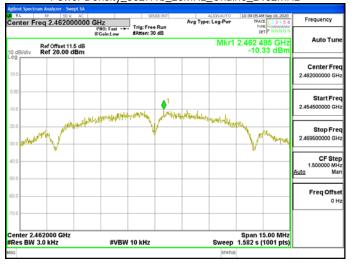
Power Density_802.11b_20MHz_Chain0_2437MHz



Power Density_802.11b_20MHz_Chain1_2437MHz



Power Density_802.11b_20MHz_Chain0_2462MHz



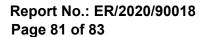
Power Density_802.11b_20MHz_Chain1_2462MHz



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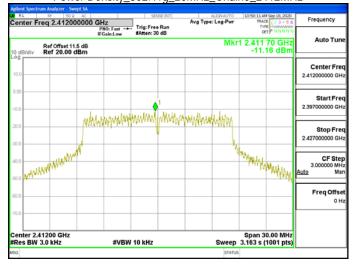
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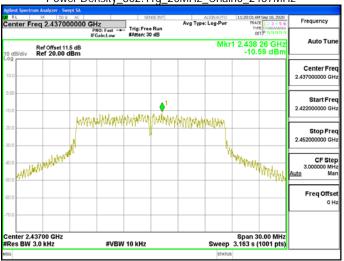
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Power Density_802.11g_20MHz_Chain1_2412MHz



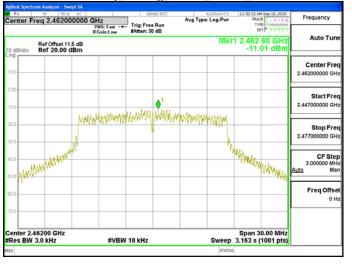
Power Density 802.11g 20MHz Chain 2437MHz



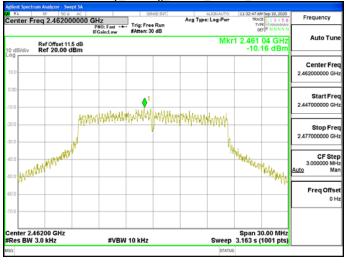
Power Density_802.11g_20MHz_Chain1_2437MHz



Power Density_802.11q_20MHz_Chain0_2462MHz



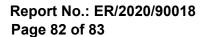
Power Density_802.11g_20MHz_Chain1_2462MHz



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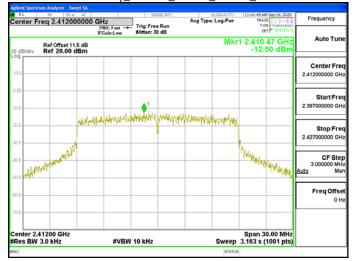
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Power Density_802.11n_20MHz_Chain0_2412MHz



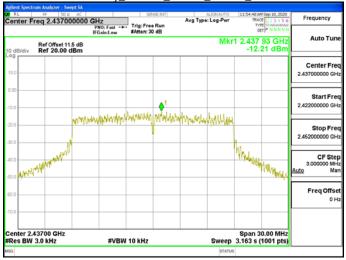
Power Density_802.11n_20MHz_Chain1_2412MHz



Power Density_802.11n_20MHz_Chain0_2437MHz



Power Density_802.11n_20MHz_Chain1_2437MHz



Power Density_802.11n_20MHz_Chain0_2462MHz



Power Density_802.11n_20MHz_Chain1_2462MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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