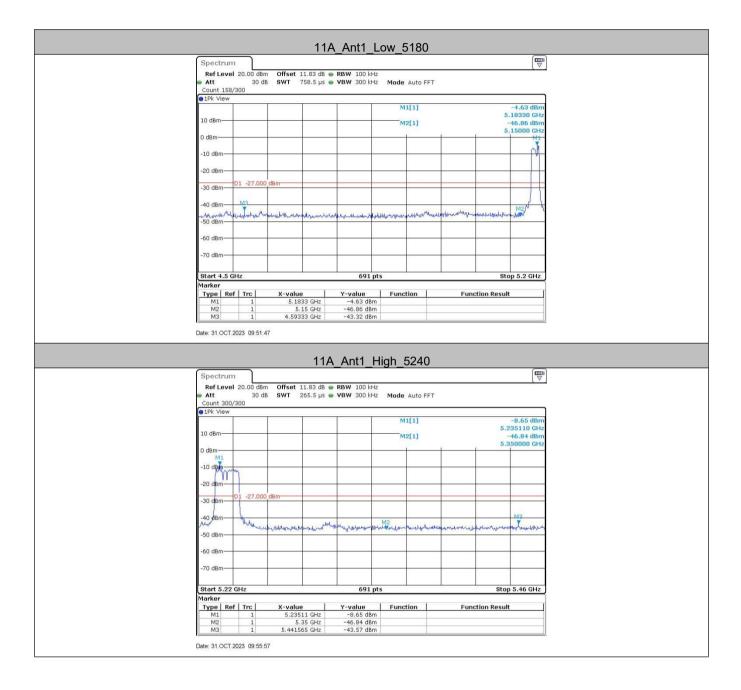


Test Result:















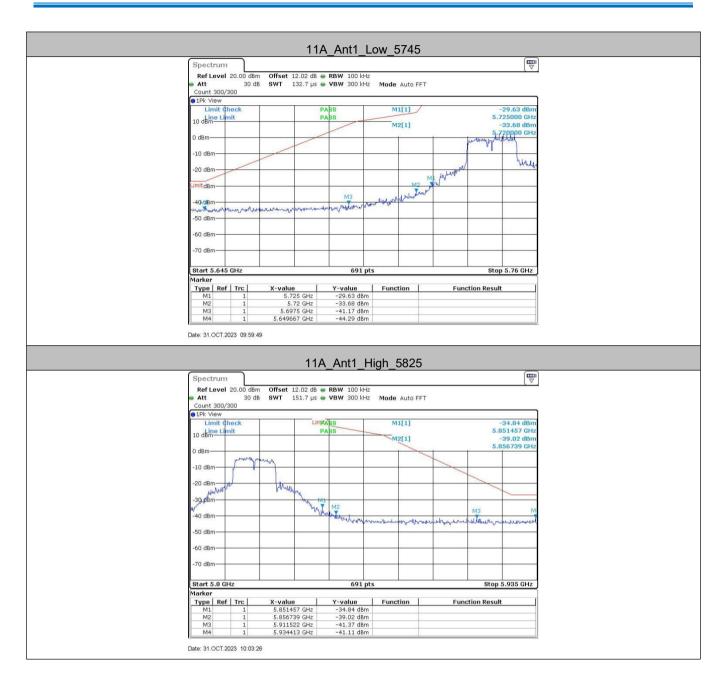








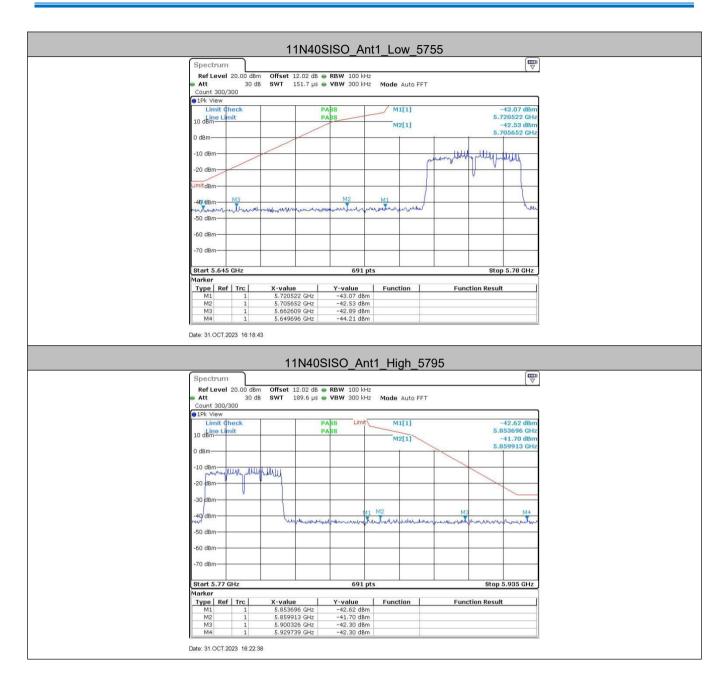


























Appendix E): Frequency Stability

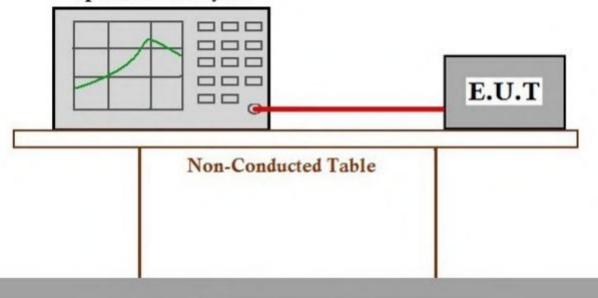
Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Test Setup Diagram

Spectrum Analyzer



Ground Reference Plane



Measurement Data

	Frequency Stability Versus Temp.								
	Operating Fr	requency: 5240 MHz							
Temp									
(℃)	Volta ge	(Hz)	(ppm)						
50		-39000.00	-7.442748						
40		-39000.00	-7.442748						
30		-39000.00	-7.442748						
20	VN	-39000.00	-7.442748						
10		-39000.00	-7.442748						
0		-39000.00	-7.442748						

	Frequency Stability Versus Temp.							
	Operating Frequen	cy: 5210 MHz						
_	Deviation Frequency Dr							
Temp.	Volta ge	(Hz)	(ppm)					
	VL	-39000.00	-7.485605					
TN	VN	-39000.00	-7.485605					
	VH	-39000.00	-7.485605					



	Frequency Stability Versus Temp.								
	Operating Fr	equency: 5745 MHz							
Temp									
(°C)	Volta ge	(Hz)	(ppm)						
50		-43000.00	-7.484769						
40		-43000.00	-7.484769						
30		-44000.00	-7.658834						
20	VN	-43000.00	-7.484769						
10		-43000.00	-7.484769						
0		-44000.00	-7.658834						

	Frequency Stability Versus Temp.							
	Operating Frequen	cy: 5825 MHz						
_	Deviation Frequency Dr							
Temp.	Volta ge	(Hz)	(ppm)					
	VL	-44000.00	-7.553648					
TN	VN	-44000.00	-7.553648					
	VH	-44000.00	-7.553648					

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.



Appendix F): Antenna Requirement

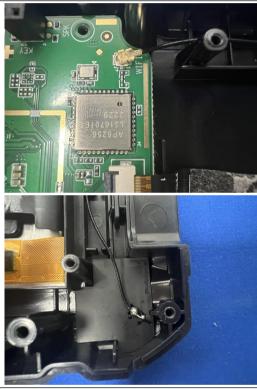
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is FPC antenna.The best case gain of the 5G WiFi antenna is 2.5dBi@Band 1, 4.58dBi@Band 4.



Appendix G): Operation in the absence of information to the transmit

15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)



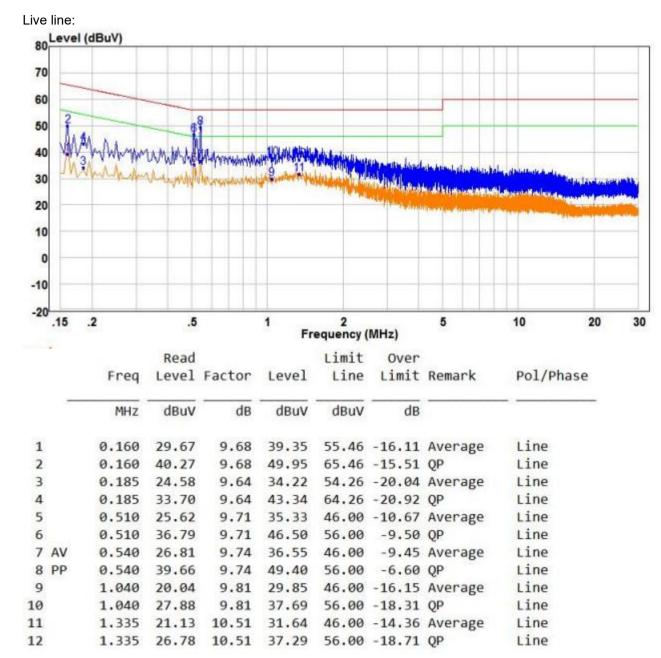
Appendix H): A	C Power Line Condu		า				
Test Procedure:	 Test frequency range :150KHz 1)The mains terminal disturba 2) The EUT was connected to Stabilization Network) which power cables of all other under the which was bonded to the generative for the unit being measured multiple power cables to a exceeded. 3)The tabletop EUT was place reference plane. And for flow horizontal ground reference 	nce voltage test was co o AC power source thro ch provides a 50Ω/50µ units of the EUT were ground reference plane ed. A multiple socket of single LISN provided t red upon a non-metalli por-standing arrangem e plane,	bugh a LISN 1 (Line $\mu H + 5\Omega$ linear imped connected to a seco in the same way as butlet strip was used he rating of the LISN c table 0.8m above ent, the EUT was pla	Impedance dance. The nd LISN 2, the LISN 1 to connect was not the ground aced on the			
	4) The test was performed will EUT shall be 0.4 m from the reference plane was bonded 1 was placed 0.8 m from ground reference plane f plane. This distance was be All other units of the EUT at LISN 2.	ne vertical ground refer ed to the horizontal gro the boundary of the u or LISNs mounted or between the closest po	ence plane. The vert ound reference plane nit under test and b n top of the ground ints of the LISN 1 an	ical ground . The LISN onded to a reference d the EUT.			
	5) In order to find the maximu all of the interface cable conducted measurement.						
Limit:		1 : :4 (
	Frequency range (MHz)	Limit (d Quasi-peak					
	0.15-0.5	66 to 56*	Average 56 to 46*				
	0.5-5	56	46				
	5-30 * The limit decreases linearly	60 with the logarithm of t	50	range 0 15			
	MHz to 0.50 MHz. NOTE : The lower limit is appl	-					

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

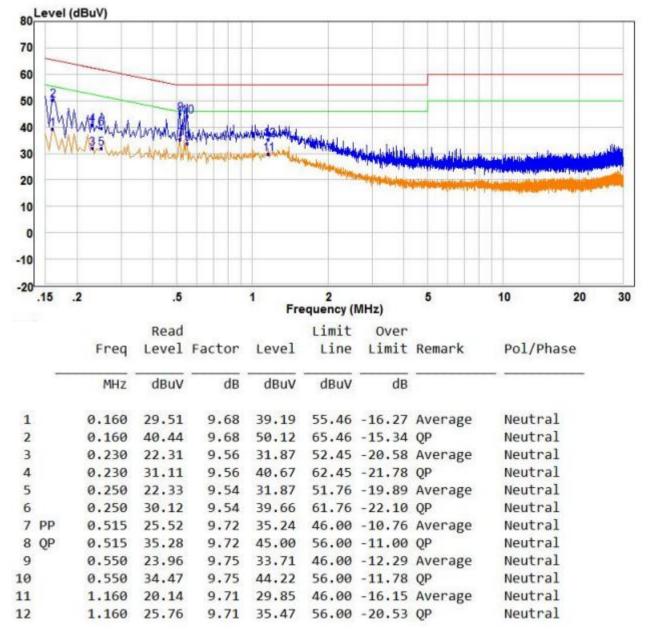
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.







Neutral line:



Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. The 6Mbps of rate of 802.11A_5240 is the worst case, only the worst data recorded in the report.



Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak		
		Peak	1MHz	3MHz	Peak		
	Above 1GHz	Peak	1MHz	10Hz	Average		
Test Procedure:	 Below 1GHz test procedu a. The EUT was placed of at a 3 meter semi-anec determine the position of b. The EUT was set 3 me was mounted on the top c. The antenna height is we determine the maximum polarizations of the ante d. For each suspected em the antenna was tuned was turned from 0 degr e. The test-receiver system Bandwidth with Maximum f. Place a marker at the end frequency to show com bands. Save the spectrr for lowest and highest of Above 1GHz test procedur g. Different between abovy to fully Anechoic Chammetre (Above 18GHz the h. Test the EUT in the looi i. The radiation measurer Transmitting mode, and j. Repeat above procedur 	n the top of a ro hoic camber. The of the highest ra- ters away from p of a variable-h- varied from one n value of the fi- enna are set to hission, the EUT to heights from rees to 360 deg m was set to Pe- um Hold Mode. end of the restrict pliance. Also me um analyzer plo- channel tre as below: re is the test site ber and change the distance is 1 west channel, for ments are perfor d found the X ax	he table wa adiation. the interfer neight anter meter to fo eld strength make the n was arran 1 meter to rees to find eak Detect cted band c easure any ot. Repeat f e, change fr e form table meter and the Highest rmed in X, kis positioni uencies me	s rotated 3 ence-recei na tower. ur meters h. Both hor neasureme ged to its v 4 meters a the maxim Function a losest to the emissions for each por table is 1.9 channel Y, Z axis p ng which i easured wa	360 degrees to iving antenna, above the gro izontal and ve ent. worst case and and the rotatal num reading. nd Specified ne transmit s in the restrict ower and mode Anechoic Cha to 1.5 5 metre).	which und to ertical d then ble ted ulation	
	30MHz-88MHz	40.0)	Quasi-pe	eak Value		
	88MHz-216MHz	43.	5	Quasi-pe	eak Value		
	216MHz-960MHz 46.0 Quasi-peak Value						
	960MHz-1GHz	54.0)	Quasi-pe	eak Value		
	Above 1GHz	54.0	0	Averag	je Value		
		74.0		Peak	Value		



Test plot as follows:

Worse case	mode:	802.11a(6Mbps)		Test channe	el:	36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5150.00	53.40	-3.63	49.77	74	-24.23	peak	Н
5150.00	36.10	-3.63	32.47	54	-21.53	AVG	Н
5150.00	51.48	-3.63	47.85	74	-26.15	peak	V
5150.00	37.64	-3.63	34.01	54	-19.99	AVG	V

Worse case	mode:	802.11a(6Mbps)		Test chann	el:	48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5350.00	54.40	-3.59	50.81	74	-23.19	peak	Н
5350.00	39.89	-3.59	36.30	54	-17.70	AVG	Н
5350.00	50.38	-3.59	46.79	74	-27.21	peak	V
5350.00	36.32	-3.59	32.73	54	-21.27	AVG	V

Worse case	mode:	802.11a(6Mbps)		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5725	51.43	-3.44	47.99	74	-26.01	peak	Н
5725	37.46	-3.44	34.02	54	-19.98	AV	Н
5725	49.06	-3.44	45.62	74	-28.38	peak	V
5725	35.56	-3.44	32.12	54	-21.88	AV	V

Worse case	mode:	802.11a(6Mbps)		Test channe	el:	165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5850	53.78	-3.42	50.36	74	-23.64	peak	Н
5850	36.55	-3.42	33.13	54	-20.87	AV	Н
5850	50.16	-3.42	46.74	74	-27.26	peak	V
5850	35.19	-3.42	31.77	54	-22.23	AV	V

Worse case r	mode:	802.11n(HT20)(6.5Mbps)		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5150.00	54.00	-3.63	50.37	74	-23.63	peak	Н
5150.00	37.27	-3.63	33.64	54	-20.36	AVG	Н
5150.00	51.95	-3.63	48.32	74	-25.68	peak	V
5150.00	37.92	-3.63	34.29	54	-19.71	AVG	V



Worse case r	mode:	802.11n(HT20)(6.5Mbps)		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5350.00	55.54	-3.59	51.95	74	-22.05	peak	Н
5350.00	38.98	-3.59	35.39	54	-18.61	AVG	Н
5350.00	51.25	-3.59	47.66	74	-26.34	peak	V
5350.00	35.92	-3.59	32.33	54	-21.67	AVG	V

Worse case	mode:	802.11n(HT20)(6.5MI	bps)	Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5725	52.46	-3.44	49.02	74	-24.98	peak	Н
5725	37.83	-3.44	34.39	54	-19.61	AV	Н
5725	49.94	-3.44	46.50	74	-27.50	peak	V
5725	35.71	-3.44	32.27	54	-21.73	AV	V

Worse case	mode:	802.11n(HT20)(6.5M	bps)	Test channe	el:	165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5850	54.09	-3.42	50.67	74	-23.33	peak	Н
5850	37.70	-3.42	34.28	54	-19.72	AV	Н
5850	49.59	-3.42	46.17	74	-27.83	peak	V
5850	35.29	-3.42	31.87	54	-22.13	AV	V

Worse case	mode:	802.11n(HT40)(13.5N	5Mbps) Test channel:		38		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5150	53.60	-3.63	49.97	74	-24.03	peak	Н
5150	37.36	-3.63	33.73	54	-20.27	AVG	Н
5150	52.02	-3.63	48.39	74	-25.61	peak	V
5150	37.53	-3.63	33.90	54	-20.10	AVG	V

Worse case r	mode:	802.11n(HT40)(13.5N	/lbps)	Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5350.00	54.89	-3.59	51.30	74	-22.70	peak	Н
5350.00	38.71	-3.59	35.12	54	-18.88	AVG	Н
5350.00	51.99	-3.59	48.40	74	-25.60	peak	V
5350.00	35.32	-3.59	31.73	54	-22.27	AVG	V



Worse case	mode:	802.11n(HT40)(13.5N	Mbps) Test channel:		el:	151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5725	52.20	-3.44	48.76	74	-25.24	peak	Н
5725	36.33	-3.44	32.89	54	-21.11	AV	Н
5725	48.91	-3.44	45.47	74	-28.53	peak	V
5725	35.86	-3.44	32.42	54	-21.58	AV	V

Worse case	mode:	802.11n(HT40)(13.5N	/lbps)	Test channe	el:	159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5850	53.24	-3.42	49.82	74	-24.18	peak	Н
5850	37.49	-3.42	34.07	54	-19.93	AV	Н
5850	49.23	-3.42	45.81	74	-28.19	peak	V
5850	35.03	-3.42	31.61	54	-22.39	AV	V

Worse case r	mode:	802.11ac(HT20)(6.5M	lbps)	Test channe	el:	36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5150.00	53.59	-3.63	49.96	74	-24.04	peak	Н
5150.00	36.94	-3.63	33.31	54	-20.69	AVG	Н
5150.00	51.78	-3.63	48.15	74	-25.85	peak	V
5150.00	37.88	-3.63	34.25	54	-19.75	AVG	V

Worse case	mode:	802.11ac(HT20)(6.5M	/lbps)	Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5350.00	55.43	-3.59	51.84	74	-22.16	peak	Н
5350.00	38.31	-3.59	34.72	54	-19.28	AVG	Н
5350.00	51.12	-3.59	47.53	74	-26.47	peak	V
5350.00	36.21	-3.59	32.62	54	-21.38	AVG	V

Worse case	mode:	802.11ac(HT20)(6.5M	lbps)	Test channe	el:	149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5725	51.63	-3.44	48.19	74	-25.81	peak	Н
5725	37.11	-3.44	33.67	54	-20.33	AV	Н
5725	48.99	-3.44	45.55	74	-28.45	peak	V
5725	36.09	-3.44	32.65	54	-21.35	AV	V



Worse case	mode:	802.11ac(HT20)(6.5M	1ac(HT20)(6.5Mbps) Test channel:		el:	165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5850	52.85	-3.42	49.43	74	-24.57	peak	Н
5850	37.17	-3.42	33.75	54	-20.25	AV	Н
5850	48.29	-3.42	44.87	74	-29.13	peak	V
5850	35.29	-3.42	31.87	54	-22.13	AV	V

Worse case	mode:	802.11ac(VHT40)(13	5Mbps)	Test channe	el:	38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5150.00	53.26	-3.63	49.63	74	-24.37	peak	Н
5150.00	37.20	-3.63	33.57	54	-20.43	AVG	Н
5150.00	51.57	-3.63	47.94	74	-26.06	peak	V
5150.00	37.09	-3.63	33.46	54	-20.54	AVG	V

Worse case r	mode:	802.11ac(VHT40)(13.5Mbps) T		Test chann	el:	46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5350.00	55.05	-3.59	51.46	74	-22.54	peak	Н
5350.00	38.60	-3.59	35.01	54	-18.99	AVG	Н
5350.00	50.47	-3.59	46.88	74	-27.12	peak	V
5350.00	35.23	-3.59	31.64	54	-22.36	AVG	V

Worse case	mode:	802.11ac(VHT40)(13	.5Mbps)	Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5725	51.70	-3.44	48.26	74	-25.74	peak	Н
5725	37.76	-3.44	34.32	54	-19.68	AV	Н
5725	48.68	-3.44	45.24	74	-28.76	peak	V
5725	36.81	-3.44	33.37	54	-20.63	AV	V

Worse case	mode:	802.11ac(VHT40)(13	1ac(VHT40)(13.5Mbps) Test channel: 15		159		
Frequency	Meter Reading			Detector	Ant. Pol.		
5850	54.17	-3.42	50.75	74	-23.25	Туре	Н
5850	37.08	-3.42	33.66	54	-20.34	AV	Н
5850	49.34	-3.42	45.92	74	-28.08	peak	V
5850	35.47	-3.42	32.05	54	-21.95	AV	V



Worse case r	mode:	802.11ac(VHT80)(29	.3Mbps)	Test channe	el:	42	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5150.00	53.26	-3.63	49.63	74	-24.37	peak	Н
5150.00	37.00	-3.63	33.37	54	-20.63	AVG	Н
5150.00	50.30	-3.63	46.67	74	-27.33	peak	V
5150.00	38.77	-3.63	35.14	54	-18.86	AVG	V
5350.00	55.41	-3.59	51.82	74	-22.18	peak	Н
5350.00	38.81	-3.59	35.22	54	-18.78	AVG	Н
5350.00	51.75	-3.59	48.16	74	-25.84	peak	V
5350.00	35.33	-3.59	31.74	54	-22.26	AVG	V

Worse case	mode:	802.11ac(VHT80)(29	.3Mbps)	Test chann	el:	155	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5725	51.64	-3.44	48.20	74	-25.80	peak	Н
5725	37.40	-3.44	33.96	54	-20.04	AV	Н
5725	48.73	-3.44	45.29	74	-28.71	peak	V
5725	35.50	-3.44	32.06	54	-21.94	AV	V
5850	53.56	-3.42	50.14	74	-23.86	peak	Н
5850	36.34	-3.42	32.92	54	-21.08	AV	Н
5850	48.67	-3.42	45.25	74	-28.75	peak	V
5850	36.19	-3.42	32.77	54	-21.23	AV	V

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor – Antenna Factor – Cable Factor



Appendix J): Radiated Spurious Emissions

Receiver Setup:		-			-
-	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above IGHZ	Peak	1MHz	10Hz	Average

Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

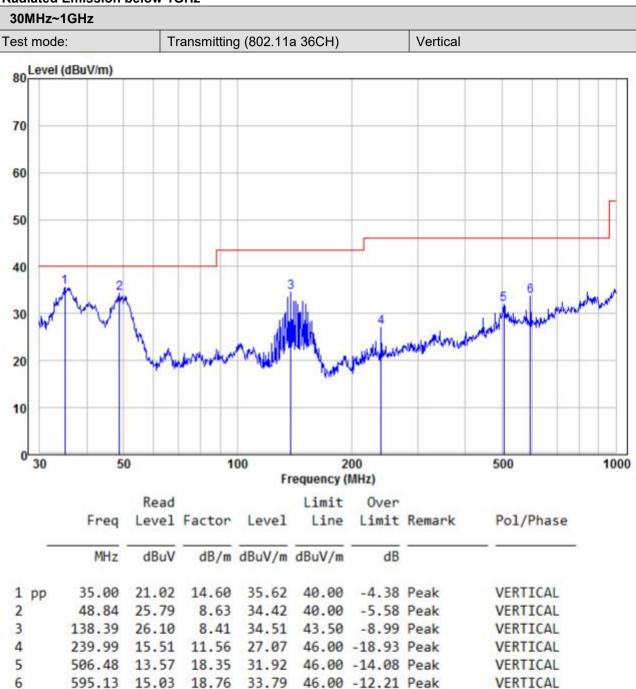
- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre)
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- j. Repeat above procedures until all frequencies measured was complete.

Limit:		1			
	Frequency	Field strength (microvolt/meter)	Limit (dBµV/cm)	Remark	Measurement distance (cm)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless of	therwise specified, t	he limit on pea	k radio frequer	псу
	emissions is 20dB above				
	applicable to the equipme		peak limit appl	ies to the total	
	peak emission level radia	ated by the device.			
Test result:	PASS				



Test Data:

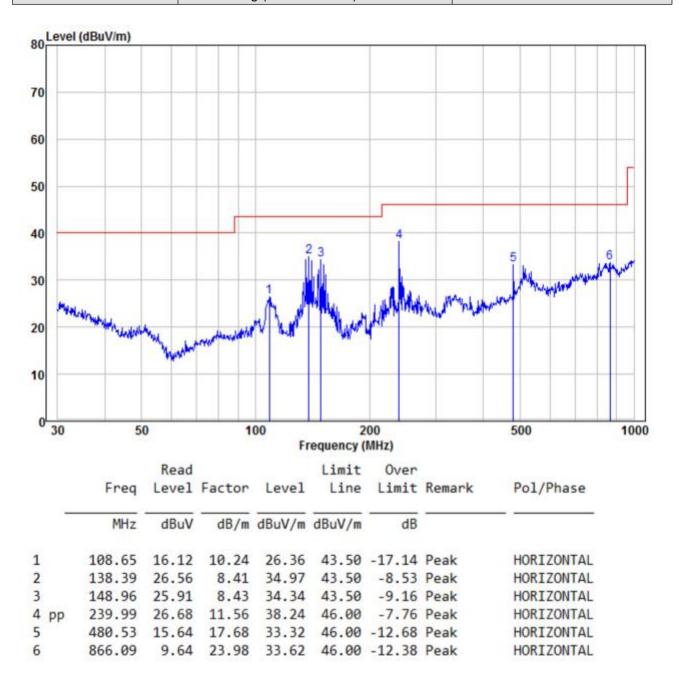
Radiated Emission below 1GHz







Test mode: Transmitting (802.11a 36CH) Horizontal





Transmitter Emission above ?	1GHz
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Test mode:	802.11a(6Mbps)		Test channel:		36 CH		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
10360	53.62	2.26	55.88	74	-18.12	peak	н
10360	36.89	2.26	39.15	54	-14.85	AVG	н
15540	52.24	3.75	55.99	74	-18.01	peak	н
15540	37.07	3.75	40.82	54	-13.18	AVG	н
10360	55.11	2.26	57.37	74	-16.63	peak	V
10360	39.66	2.26	41.92	54	-12.08	AVG	V
15540	50.57	3.75	54.32	74	-19.68	peak	V
15540	35.51	3.75	39.26	54	-14.74	AVG	V

Test mode:	802.11a(6Mbps)			Test chann	el:	48 CH	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
10480	53.02	2.31	55.33	74	-18.67	peak	н
10480	37.96	2.31	40.27	54	-13.73	AVG	н
15720	49.12	3.79	52.91	74	-21.09	peak	н
15720	35.54	3.79	39.33	54	-14.67	AVG	н
10480	52.52	2.31	54.83	74	-19.17	peak	V
10480	36.71	2.31	39.02	54	-14.98	AVG	V
15720	49.76	3.79	53.55	74	-20.45	peak	V
15720	36.08	3.79	39.87	54	-14.13	AVG	V



Test mode:	802.11a(6Mbps)			Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
11490	52.18	2.54	54.72	74	-19.28	peak	н
11490	37.15	2.54	39.69	54	-14.31	AVG	н
17235	49.67	3.94	53.61	74	-20.39	peak	н
17235	36.70	3.94	40.64	54	-13.36	AVG	н
11490	53.44	2.54	55.98	74	-18.02	peak	V
11490	37.97	2.54	40.51	54	-13.49	AVG	V
17235	50.02	3.94	53.96	74	-20.04	peak	V
17235	37.32	3.94	41.26	54	-12.74	AVG	V

Test mode:	802.11a(6Mbps)			Test chann	el:	165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
11650	52.88	2.58	55.46	74	-18.54	peak	н
11650	37.14	2.58	39.72	54	-14.28	AVG	н
17475	51.15	4.02	55.17	74	-18.83	peak	н
17475	36.83	4.02	40.85	54	-13.15	AVG	н
11650	53.82	2.58	56.40	74	-17.60	peak	V
11650	37.38	2.58	39.96	54	-14.04	AVG	V
17475	50.67	4.02	54.69	74	-19.31	peak	V
17475	37.33	4.02	41.35	54	-12.65	AVG	V

Remark:

- 1) The 802.11a 6Mbps of rate is the worst case, only the worst data recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 40GHz, The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.





8 Photographs - EUT Test Setup

8.1 Radiated Spurious Emission









8.2 Conducted Emission





9 Photographs - EUT Constructional Details

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20230901735E-01.

*** END OF REPORT ***