Test Report

Report No.	:	**MTi250325030-0109E1**
Date of issue	:	**2025-04-24**
Applicant	:	**Shenzhen Mgctech Co., Ltd.**
Product	:	**Wireless Charger**
Model(s)	:	**CBT-60QC, CBT-60Q, LUX007, LUX007C, MBT-60Q, TW08, TWINS-60Q, KR-CBT-60Q-BK, KR-CBT-60Q-WT**
FCC ID	:	**2AVSB-CBT-60QC**

Shenzhen Microtest Co., Ltd.

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TEST REPORT

Report No.: MTi250325030-0109E1

Test Result Certification			
Applicant	Shenzhen Mgctech Co., Ltd.		
Applicant Address	401, Bldg.14, No. 48-12, Fuchengao Rd, Pinghu Street, Longgang District. Shenzhen, China.		
Manufacturer	Shenzhen Mgctech Co., Ltd.		
Manufacturer Address	201, Bldg.C, No.12, Fusheng Road Pinghu Fuchengao Street, Longgang District, Shenzhen, China.		
Product description			
Product name	Wireless Charger		
Trademark	N/A		
Model name	CBT-60QC		
Series Model(s)	CBT-60Q, LUX007, LUX007C, MBT-60Q, TW08, TWINS-60Q, KR-CBT-60Q-BK, KR-CBT-60Q-WT		
Standards	47 CFR Part 15C		
Test Method	ANSI C63.10-2013		
Testing Information			
Date of test	2025-04-11 to 2025-04-24		
Test result	Pass		
Prepared by:		Letter Lan	Letter. Lan.
Reviewed by:		David Lee	David. Lee
Approved by:		Lewis Lian	Lewis Lian

1 General Description

1.1 Description of the EUT

Product name:	Wireless Charger
Model name:	CBT-60QC
Series Model(s):	CBT-60Q, LUX007, LUX007C, MBT-60Q, TW08, TWINS-60Q, KR-CBT-60Q-BK, KR-CBT-60Q-WT
Model difference:	All the models are the same circuit and module, except the model name.
Electrical rating:	Input: 20V/3.25A, 15V/3A, 12V/3A, 9V3A Wireless Output: Phone:15W, 10W, 7.5W, 5W Earphone: 5W Watch: 2.5W USB-C: 5V/3A, 9V/2.8A,12V/2.1A, 15V/1.7A 25W（Max) USB-A: 5V/3A, 9V/2.0A,12V/1.5A 18W(Max) USB A+C:5V/2A+5V/2A 20W(Max)
Accessories:	N/A
Hardware version:	V1.1
Software version:	V1.0
Test sample(s) number:	MTi250325030-01-R001
RF specification	
Operating frequency range:	Phone: 115-205kHz (5W, 7.5W, 10W) Phone: 360kHz (15W) Earphone: 115-205kHz Apple Watch: 300- 350kHz Samsung Watch: 115-205kHz
Modulation type:	ASK
Antenna(s) type:	Coil

1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless Output(Phone(5W)+Earphone(5W)+Apple Watch(2.5W))
Mode2	Wireless Output(Phone(7.5W)+Earphone(5W)+ Apple Watch(2.5W))
Mode3	Wireless Output(Phone(10W)+Earphone(5W)+ Apple Watch(2.5W))
Mode4	Wireless Output(Phone(15W)+Earphone(5W)+ Apple Watch(2.5W))
Mode5	Wireless Output(Phone(5W)+Earphone(5W)+Samsung Watch(2.5W))
Mode6	Wireless Output(Phone(7.5W)+Earphone(5W)+ Samsung Watch(2.5W))
Mode7	Wireless Output(Phone(10W)+Earphone(5W)+ Samsung Watch(2.5W))
Mode8	Wireless Output(Phone(15W)+Earphone(5W)+ Samsung Watch(2.5W))
Mode9	Wireless Output(Phone(5W)
Mode10	Wireless Output(Phone(7.5W)

Mode11	Wireless Output(Phone(10W)
Mode12	Wireless Output(Phone(15W)
Mode13	Earphone(5W)+Apple Watch(2.5W)
Mode14	Earphone(5W)+Samsung Watch(2.5W)
Mode15	Apple Watch(2.5W)
Mode16	Samsung Watch(2.5W)
Mode17	Wireless Output(Phone(5W)+Earphone(5W)
Mode18	Wireless Output(Phone(7.5W)+Earphone(5W)
Mode19	Wireless Output(Phone(10W)+Earphone(5W)
Mode20	Wireless Output(Phone(15W)+Earphone(5W)
Mode21	Wireless Output(Phone(5W)+ Apple Watch(2.5W))
Mode22	Wireless Output(Phone(7.5W)+ Apple Watch(2.5W))
Mode23	Wireless Output(Phone(10W)+ Apple Watch(2.5W))
Mode24	Wireless Output(Phone(15W)+ Apple Watch(2.5W))
Mode25	Wireless Output(Phone(5W)+ Samsung Watch(2.5W))
Mode26	Wireless Output(Phone(7.5W)+ Samsung Watch(2.5W))
Mode27	Wireless Output(Phone(10W)+ Samsung Watch(2.5W))
Mode28	Wireless Output(Phone(15W)+ Samsung Watch(2.5W))
Mode29	Stand by

1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

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

Support equipment list			
Description	Model	Serial No.	Manufacturer
Lenovo USB-C adapter	C65B	1SGX21B35621Z13F1D4W	Lenovo
wireless charging load	/	/	Jingxin Wei
watch	Apple watch S7	M0JVGQG1VP	Apple
Watch	Galaxy Watch 5	R32T5467890	Samsung
Air Pods	MQD83CH/A	/	Apple
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15C	47 CFR Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15C	47 CFR Part 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15C	47 CFR Part 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2025-03-14	2026-03-13
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2025-03-18	2026-03-17
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2025-03-18	2026-03-17
20dB Occupied Bandwidth						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2025-03-18	2026-03-17
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2025-03-14	2026-03-13
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2025-03-18	2026-03-17
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2025-03-18	2026-03-17
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2025-03-18	2026-03-17
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2025-03-18	2026-03-17
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2025-03-14	2026-03-13
9	DC Power Supply	Agilent	E3632A	MY40027695	2025-03-18	2026-03-17
Emissions in frequency bands (below 30MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17
Emissions in frequency bands (30MHz - 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:

The antenna of the EUT is permanently attached. The EUT complies with the requirement of FCC PART 15.203.

6 Radio Spectrum Matter Test Results (RF)

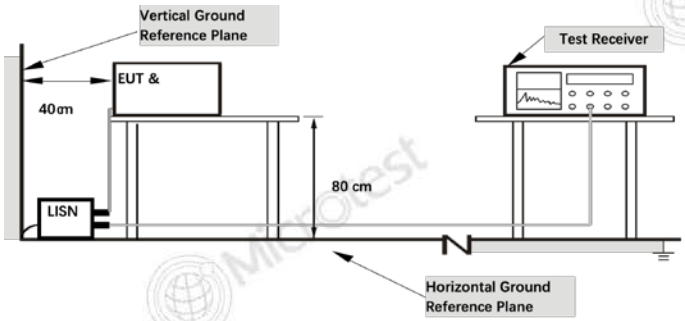
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	ANSI C63.10-2013 section 6.2
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

6.1.1 E.U.T. Operation:

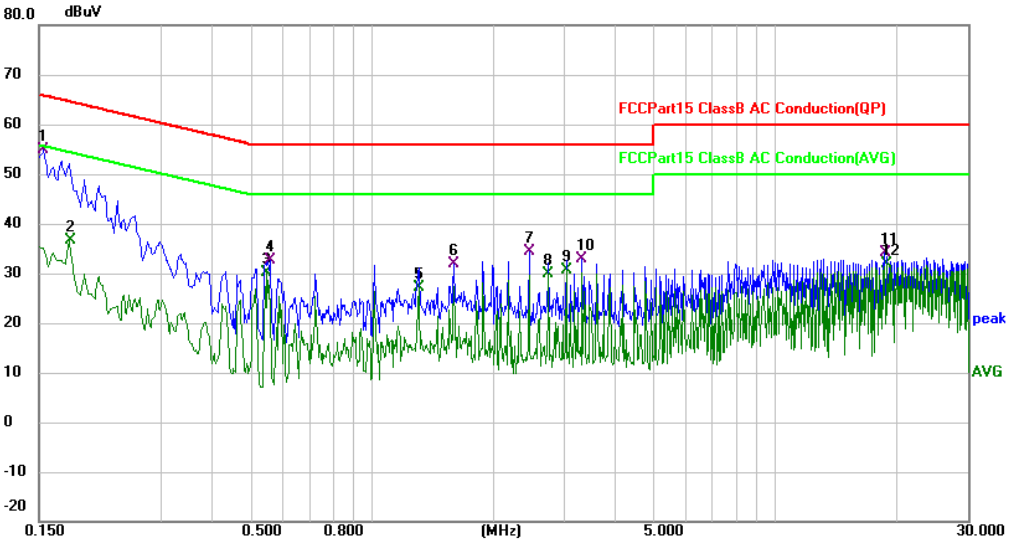
Operating Environment:					
Temperature:	25 °C	Humidity:	68 %	Atmospheric Pressure:	100 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20, Mode21, Mode22, Mode23, Mode24, Mode25, Mode26, Mode27, Mode28, Mode29				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode7) is recorded in the report				

6.1.2 Test Setup Diagram:



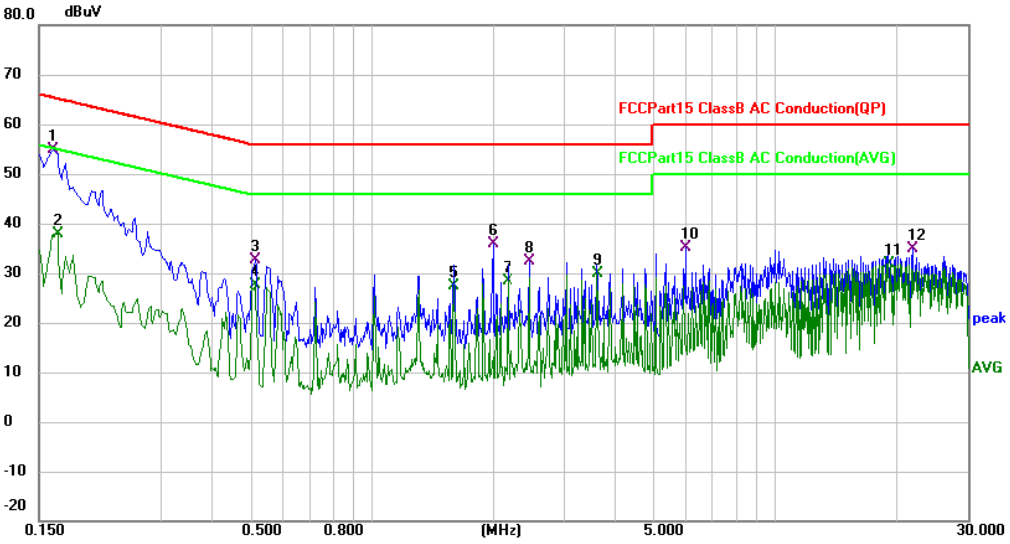
6.1.3 Test Data:

Mode7 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1539	44.50	10.30	54.80	65.79	-10.99	QP	
2		0.1780	26.45	10.29	36.74	54.58	-17.84	AVG	
3		0.5460	19.60	10.44	30.04	46.00	-15.96	AVG	
4		0.5620	22.21	10.44	32.65	56.00	-23.35	QP	
5		1.3060	16.47	10.55	27.02	46.00	-18.98	AVG	
6		1.5940	21.34	10.55	31.89	56.00	-24.11	QP	
7		2.4660	23.71	10.55	34.26	56.00	-21.74	QP	
8		2.7540	19.33	10.56	29.89	46.00	-16.11	AVG	
9		3.0460	19.95	10.56	30.51	46.00	-15.49	AVG	
10		3.3340	22.35	10.57	32.92	56.00	-23.08	QP	
11		18.7059	23.01	11.08	34.09	60.00	-25.91	QP	
12		18.9659	20.85	11.10	31.95	50.00	-18.05	AVG	

Mode7 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	44.60	10.30	54.90	65.36	-10.46	QP	
2		0.1660	27.60	10.30	37.90	55.16	-17.26	AVG	
3		0.5140	22.17	10.43	32.60	56.00	-23.40	QP	
4		0.5140	17.09	10.43	27.52	46.00	-18.48	AVG	
5		1.5940	16.89	10.55	27.44	46.00	-18.56	AVG	
6		1.9940	25.33	10.55	35.88	56.00	-20.12	QP	
7		2.1740	17.82	10.56	28.38	46.00	-17.62	AVG	
8		2.4660	21.89	10.55	32.44	56.00	-23.56	QP	
9		3.6260	19.34	10.56	29.90	46.00	-16.10	AVG	
10		5.9940	24.46	10.59	35.05	60.00	-24.95	QP	
11		19.1220	20.82	11.10	31.92	50.00	-18.08	AVG	
12		21.8540	23.86	11.07	34.93	60.00	-25.07	QP	

6.2 20dB Occupied Bandwidth

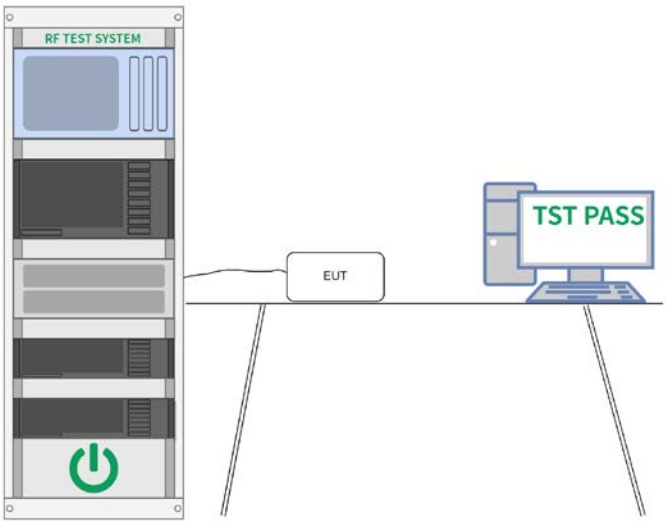
Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “−xx dB down” requirement; that is, if the requirement calls for measuring the −20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “−xx dB down amplitude” using [(reference value) − xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “−xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the

	marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.5 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20, Mode21, Mode22, Mode23, Mode24, Mode25, Mode26, Mode27, Mode28, Mode29				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1, Mode2, Mode3, Mode4, Mode5) is recorded in the report				

6.2.2 Test Setup Diagram:

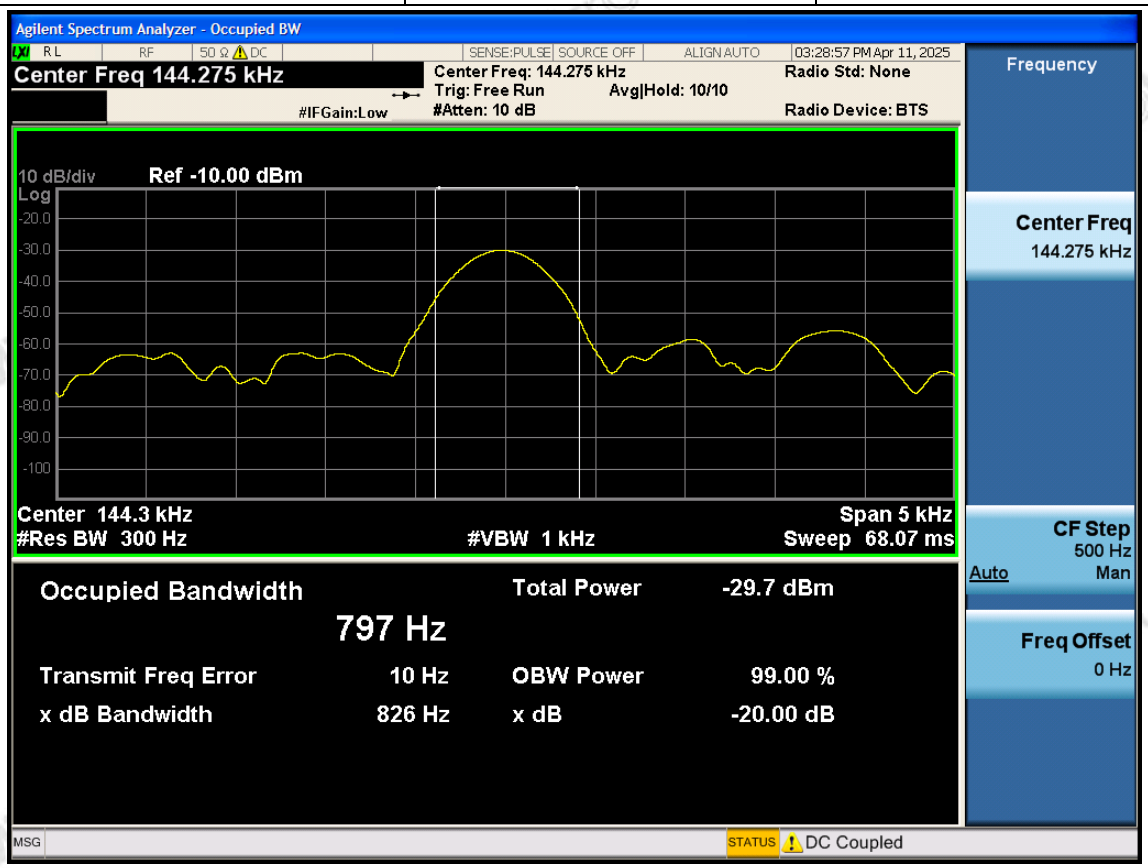


6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Samsung Watch

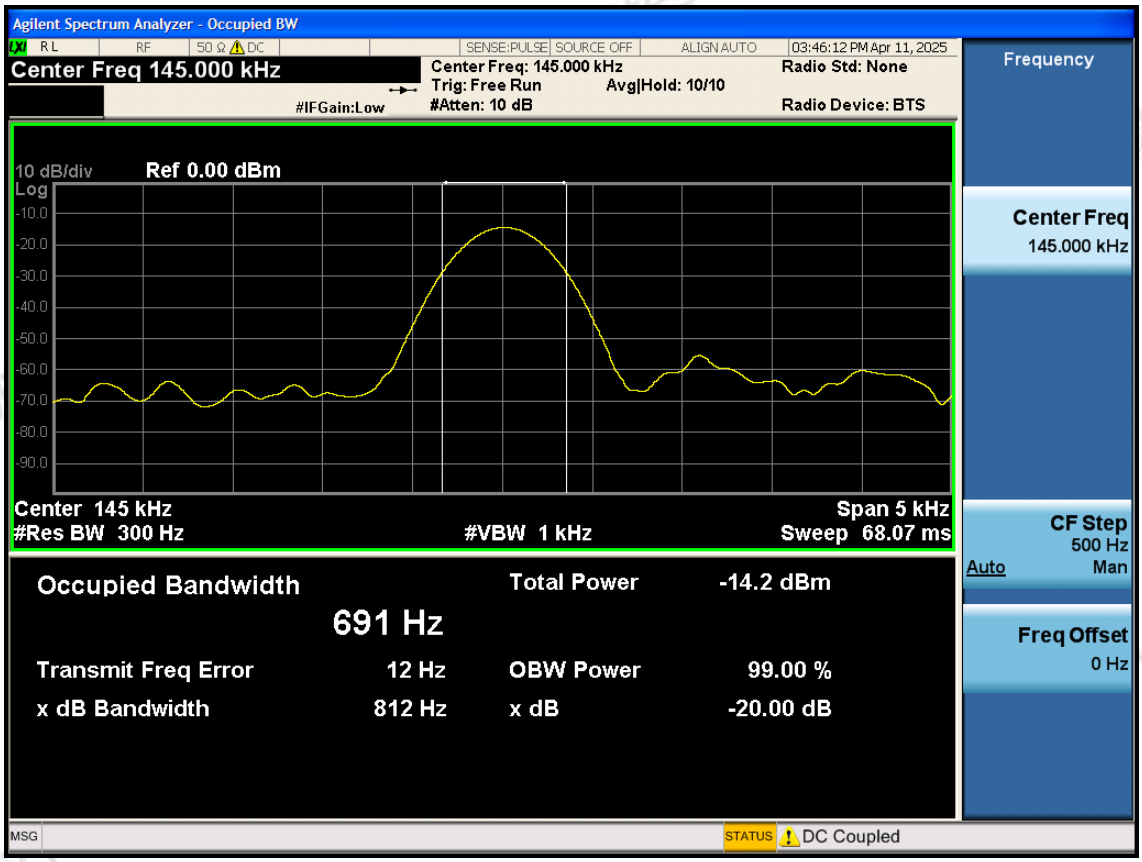
Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
144.275	826	797



Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Phone(10W)

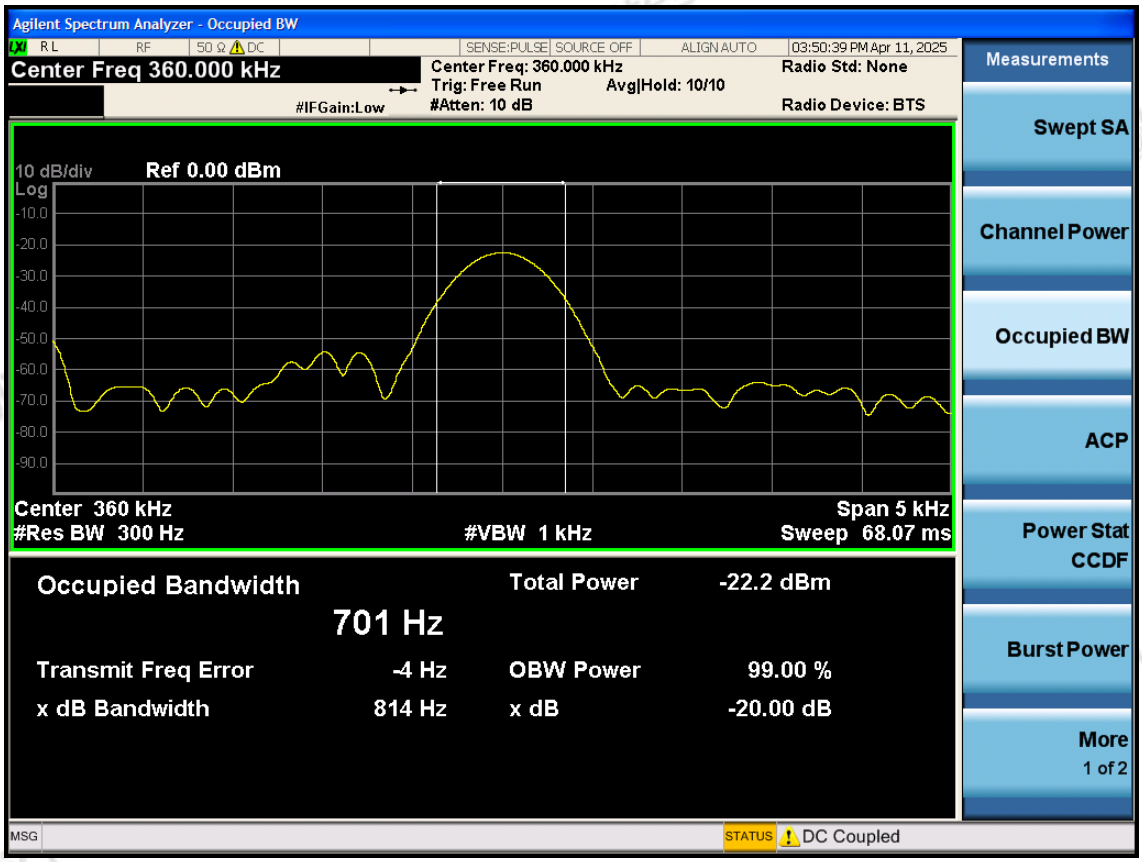
Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
145.00	812	691



Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Phone(15W)

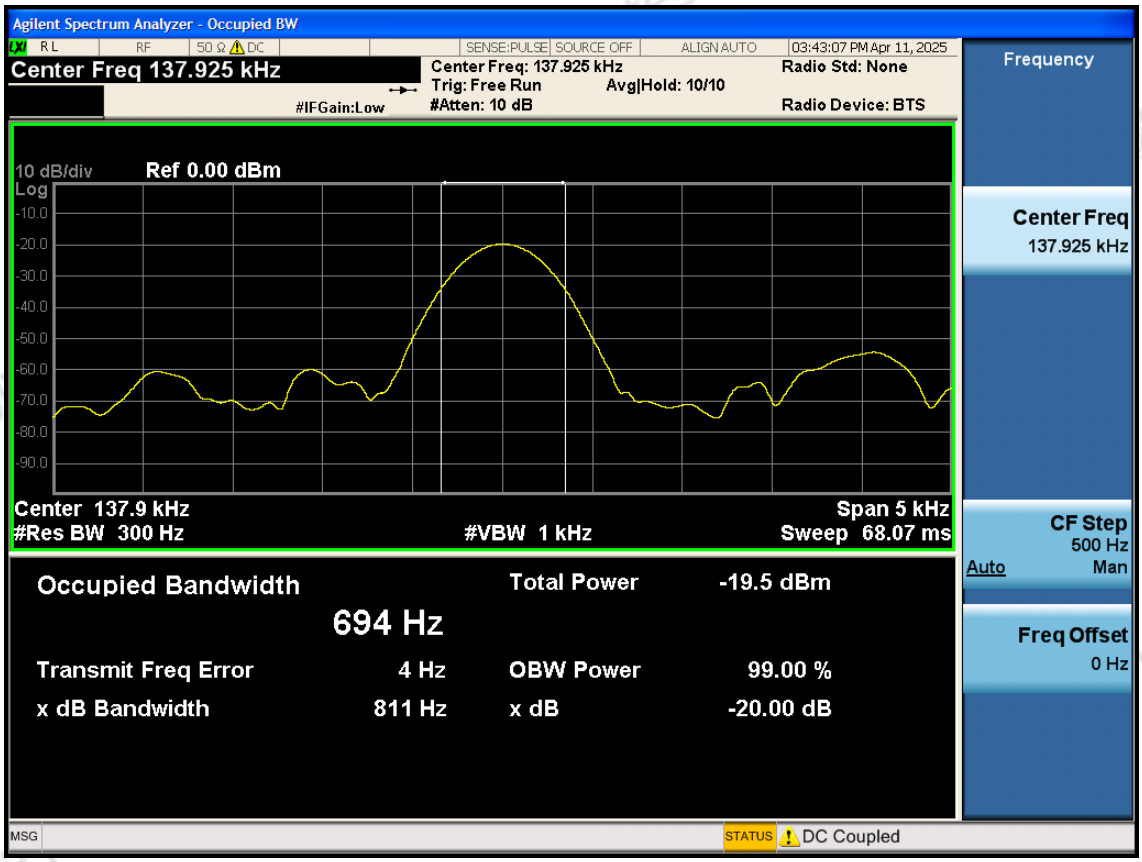
Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
360.00	814	701



Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Earphone

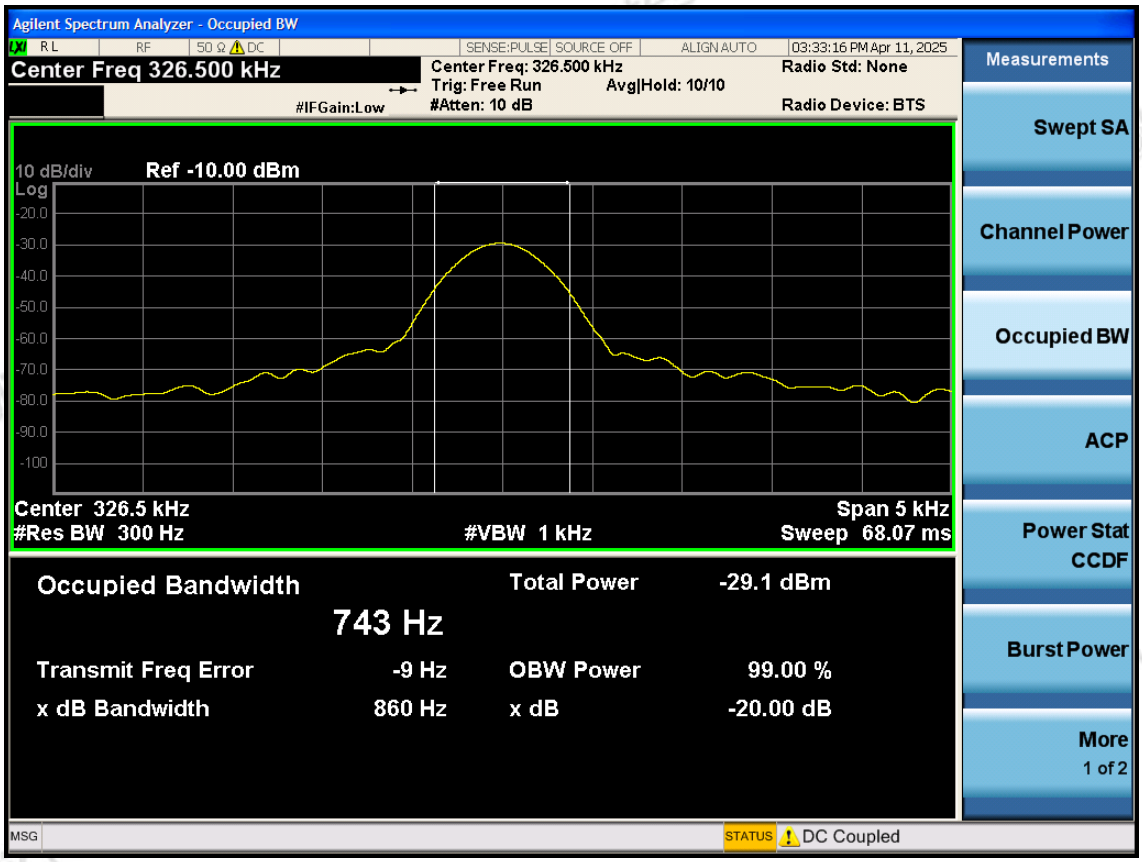
Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
137.925	811	694



Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Apple Watch

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
326.5	860	743



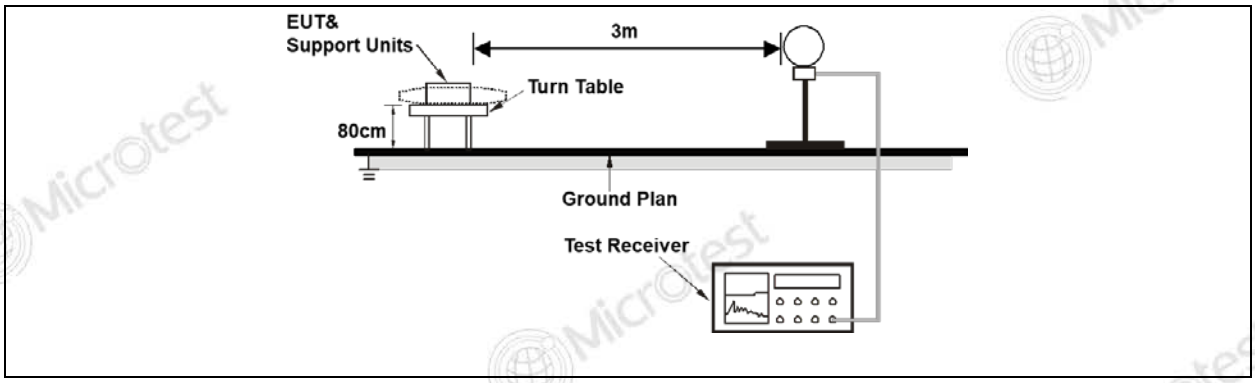
6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209
Test Limit:	Frequency (MHz) / Field strength (microvolts/meter) / Measurement distance (meters) 0.009-0.490 / 2400/F(kHz) / 300 0.490-1.705 / 24000/F(kHz) / 30 1.705-30.0 / 30 / 30 30-88 / 100 ** / 3 88-216 / 150 ** / 3 216-960 / 200 ** / 3 Above 960 / 500 / 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
Test Method:	ANSI C63.10-2013 section 6.4
Procedure:	ANSI C63.10-2013 section 6.4

6.3.1 E.U.T. Operation:

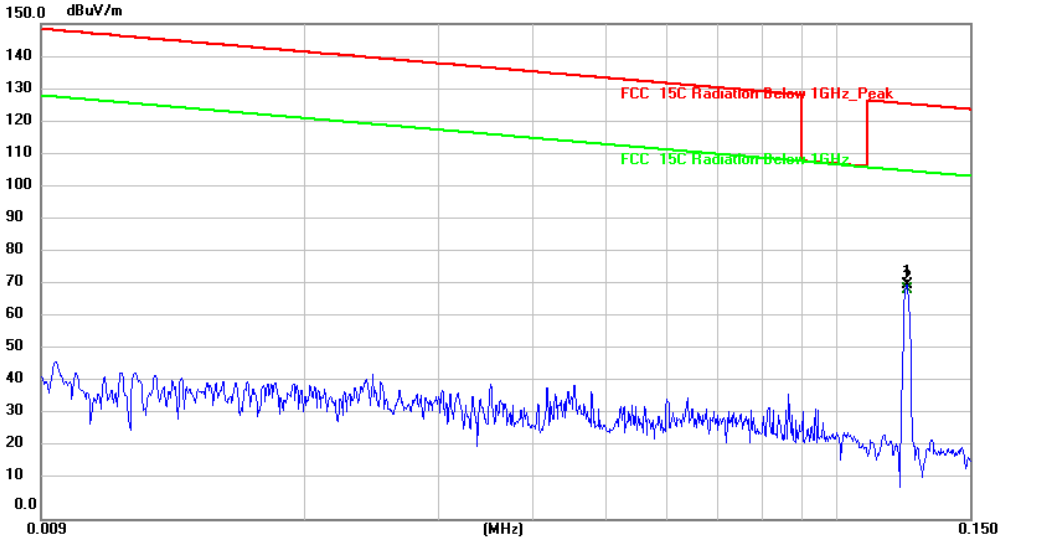
Operating Environment:					
Temperature:	22.5 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20, Mode21, Mode22, Mode23, Mode24, Mode25, Mode26, Mode27, Mode28, Mode29				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode4, Mode7) is recorded in the report				

6.3.2 Test Setup Diagram:



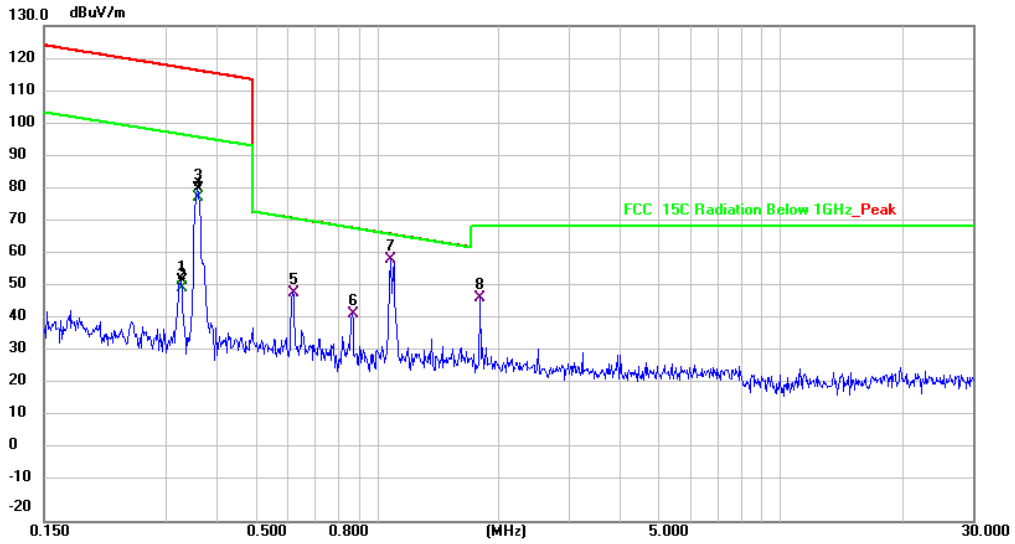
6.3.3 Test Data:

Mode4 / Polarization: Coplanar



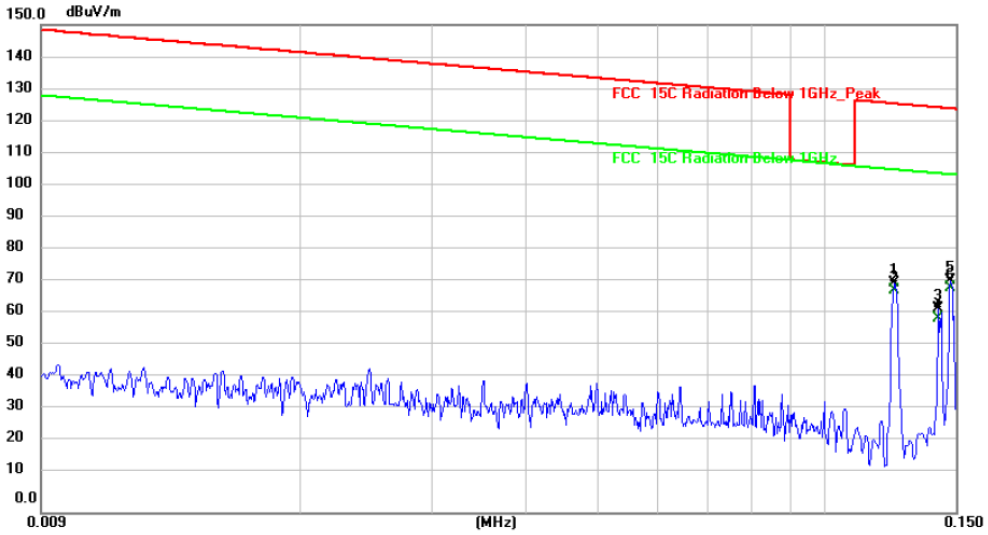
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1239	50.72	20.47	71.19	125.76	-54.57	peak	
2	*	0.1239	49.03	20.47	69.50	105.76	-36.26	AVG	

Mode4 / Polarization: Coplanar



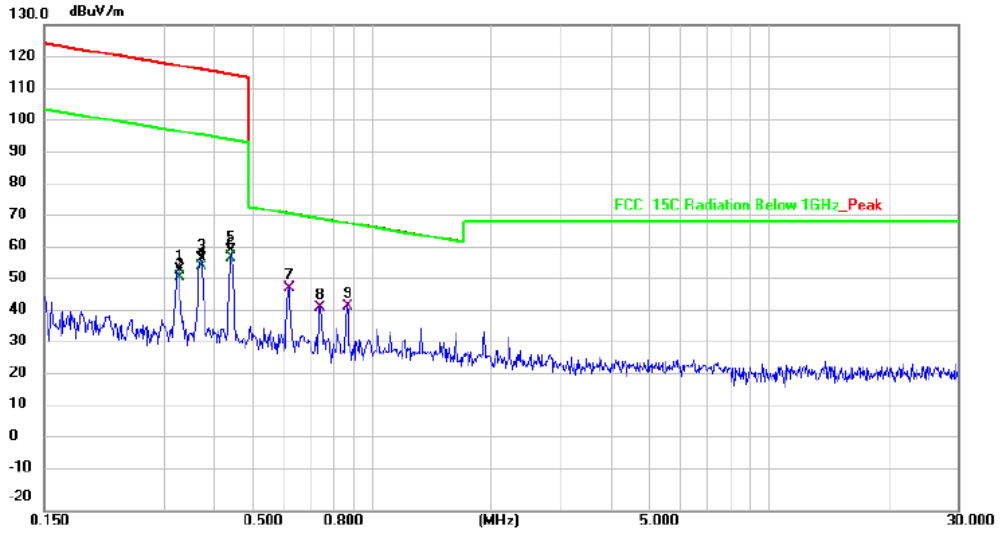
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3268	31.83	21.01	52.84	117.32	-64.48	peak	
2		0.3268	29.59	21.01	50.60	97.32	-46.72	AVG	
3		0.3596	59.61	21.08	80.69	116.49	-35.80	peak	
4		0.3596	57.12	21.08	78.20	96.49	-18.29	AVG	
5		0.6173	27.43	21.69	49.12	71.80	-22.68	QP	
6		0.8664	20.63	22.29	42.92	68.86	-25.94	QP	
7	*	1.0766	36.57	22.76	59.33	66.98	-7.65	QP	
8		1.8000	23.60	24.24	47.84	69.50	-21.66	QP	

Mode7 / Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1242	50.37	20.47	70.84	125.74	-54.90	peak	
2		0.1242	48.13	20.47	68.60	105.74	-37.14	AVG	
3		0.1416	42.09	20.54	62.63	124.60	-61.97	peak	
4		0.1416	39.20	20.54	59.74	104.60	-44.86	AVG	
5		0.1474	51.00	20.59	71.59	124.25	-52.66	peak	
6	*	0.1474	48.61	20.59	69.20	104.25	-35.05	AVG	

Mode7 / Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3268	33.29	21.01	54.30	117.32	-63.02	peak	
2		0.3268	31.09	21.01	52.10	97.32	-45.22	AVG	
3		0.3712	36.73	21.10	57.83	116.22	-58.39	peak	
4		0.3712	34.50	21.10	55.60	96.22	-40.62	AVG	
5		0.4444	39.24	21.26	60.50	114.65	-54.15	peak	
6		0.4444	37.04	21.26	58.30	94.65	-36.35	AVG	
7	*	0.6205	26.96	21.69	48.65	71.75	-23.10	QP	
8		0.7391	20.77	21.98	42.75	70.24	-27.49	QP	
9		0.8664	20.76	22.29	43.05	68.86	-25.81	QP	

6.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209
Test Limit:	

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

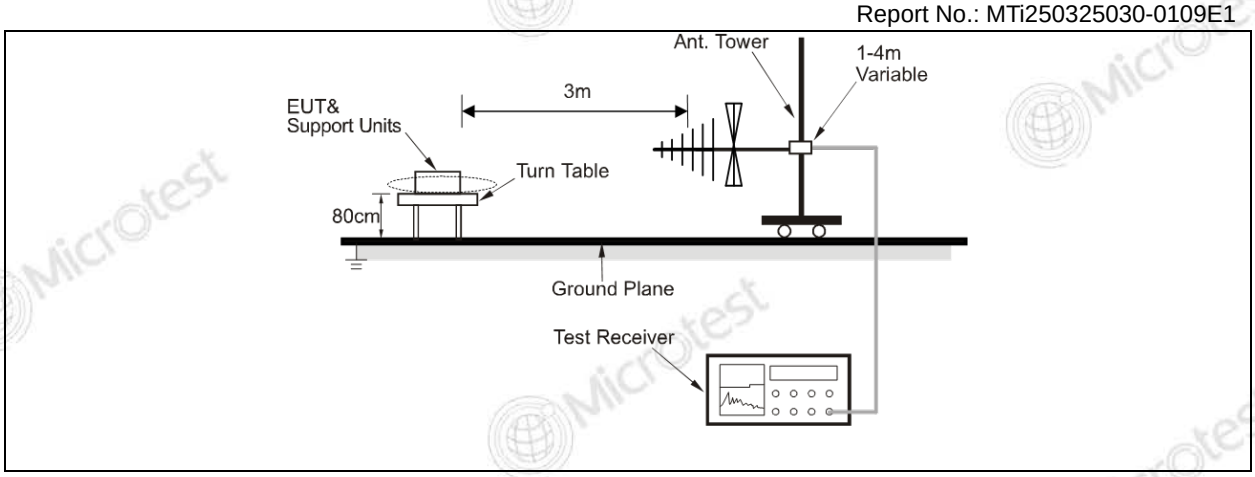
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Test Method:	ANSI C63.10-2013 section 6.5
Procedure:	ANSI C63.10-2013 section 6.5

6.4.1 E.U.T. Operation:

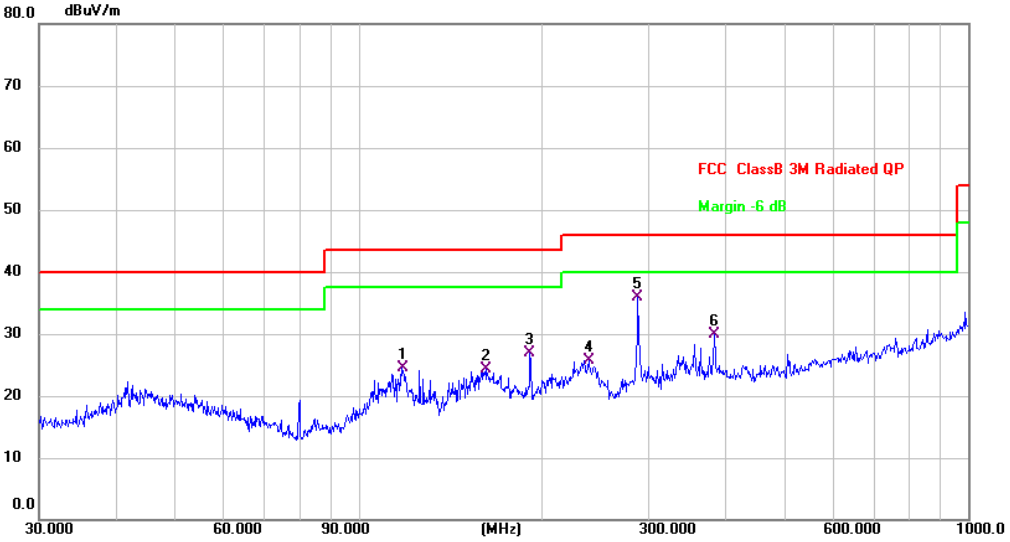
Operating Environment:					
Temperature:	22.5 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20, Mode21, Mode22, Mode23, Mode24, Mode25, Mode26, Mode27, Mode28, Mode29				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report				

6.4.2 Test Setup Diagram:


Ant. Tower
1-4m
Variable
3m
EUT&
Support Units
Turn Table
80cm
Ground Plane
Test Receiver

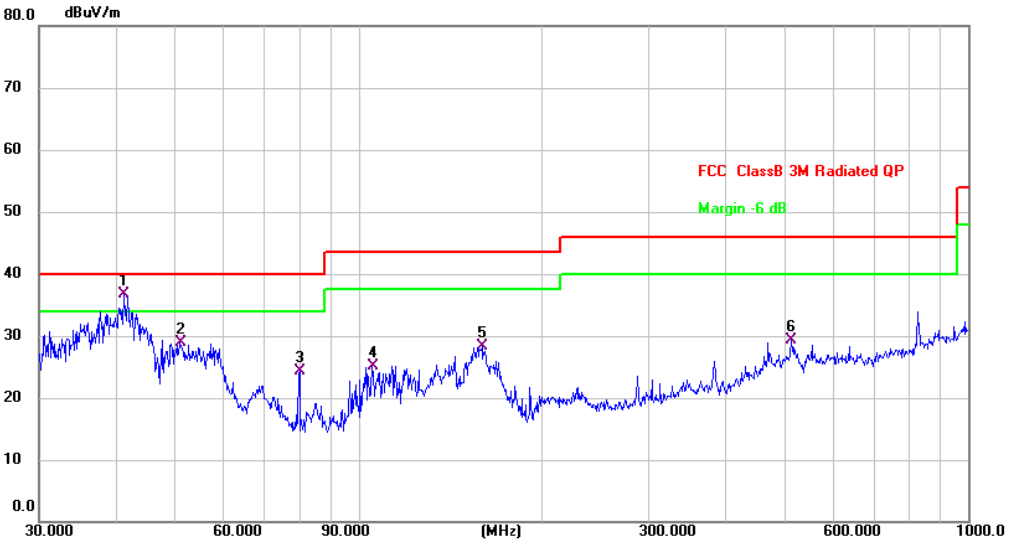
6.4.3 Test Data:

Mode4 / Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		117.7725	33.27	-8.83	24.44	43.50	-19.06	QP	
2		161.4742	34.31	-10.08	24.23	43.50	-19.27	QP	
3		191.7450	35.80	-8.87	26.93	43.50	-16.57	QP	
4		239.1473	32.29	-6.52	25.77	46.00	-20.23	QP	
5	*	287.9904	41.27	-5.27	36.00	46.00	-10.00	QP	
6		383.9318	33.43	-3.43	30.00	46.00	-16.00	QP	

Mode4 / Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	41.2764	44.10	-7.45	36.65	40.00	-3.35	QP	
2		50.9420	35.46	-6.53	28.93	40.00	-11.07	QP	
3		80.0806	36.30	-12.00	24.30	40.00	-15.70	QP	
4		105.2718	32.25	-7.16	25.09	43.50	-18.41	QP	
5		159.2251	37.90	-9.65	28.25	43.50	-15.25	QP	
6		513.6331	30.89	-1.62	29.27	46.00	-16.73	QP	

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

Statement

1. This report is invalid without the seal and signature of the laboratory.

2. The test results of this report are only responsible for the samples submitted.Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

****** END OF REPORT ******