

Test Report

Product: Wireless charging Bluetooth speaker

Trade Mark: ANJANK

Model Number: AC211

FCC ID: 2A7FC-AC211

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name..... : Shenzhen kerchan Star Technology Co., LTD
Address : 7th Floor, Building B, Huafeng International, Robot Industrial
Park,Bao'an District, Shenzhen, China
Manufacturer's Name : DONGGUAN SHUNLANG ELECTRONICS.LTD
Address : 4F,BUILDING NO.6,HUAILIN RD NO.27,HUMEN
TOWN,DONGGUAN CITY,GUANGDONG

Product description

Product name : Wireless charging Bluetooth speaker
Model Number : AC211

Standards : FCC Part 15.247

Test procedure..... : IEEE/ANSI C63.10-2020

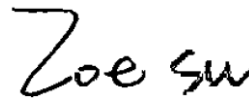
This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test

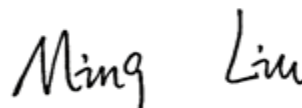
Date (s) of performance of tests..... : Dec. 12, 2024~ Jan. 02, 2025

Test Result..... : **Pass**

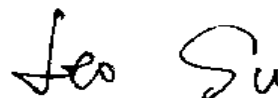
Testing Engineer :


(Z o e S u)

Technical Manager :


(M i n g L i u)

Authorized Signatory :


(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	Wireless charging Bluetooth speaker
Model name:	AC211
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	2402-2480MHz
Modulation type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Bit Rate of transmitter:	1 Mbps, 2Mbps, 3Mbps
Antenna type:	PCB Antenna
Antenna gain:	1.9 dBi
Max. output power:	1.25 dBm
Hardware version:	V1.0
Software version:	V1.0
Battery:	DC 3.7V, 1100mAh, 4.07Wh
Power supply:	Input: DC 9V/2A Wireless Output: 5W/7.5W/10W/15W
Adapter information:	INPUT: 100-240V~ 50/60Hz, 1.0A Max OUTPUT: DC 5V/3A, DC 9V/2A, DC 12V/1.5A

1.2 Test Mode

Test Mode	Channel	Frequency (MHz)
1	00	2402
2	39	2441
3	78	2480

1.3 Operation Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459

04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454	--	--
26	2428	53	2455	--	--

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Power setting configuration parameters

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

Test software Version		BT_Tool V1.1.0	
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters	Default	Default	Default
RF cable			
Description	Connector	Length	Supplied by
Antenna Cable	SMA	10cm	Applicant

Note: Disclaimer: the loss of RF cable is too small and can be ignored.

1.6 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Notebook	BDR-WDH	A3RQPM242 0004454	HONR

Note: The laptop is used to assist the RF test. In order to prevent the laptop from causing unnecessary impact on the test, the laptop will be removed from the test environment after the EUT successfully transmits at a fixed frequency using the laptop.

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna requirement	Pass	
2	15.207	Conducted emission	Pass	
3	15.247(d)	Band edge	Pass	
4	15.205/15.209	Spurious emission	Pass	
5	15.247(b)(1)	Peak output power	Pass	
6	15.247(a)(1)	20dB occupied bandwidth	Pass	
7	15.247(a)(1)	Carrier Frequencies Separation	Pass	
8	15.247(a)(1)	Hopping channel number	Pass	
9	15.247(a)(1)	Dwell time	Pass	
10	15.247(d)	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

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

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Occupied Bandwidth	$\pm 3\%$	
Temperature	± 1 degree	
Humidity	$\pm 5 \%$	

3.4 Test Software

Software name	Manufacturer	Model	Version
Conducted Emission test Software	Farad	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission test Software	Farad	EZ-EMC	FA-03A2
RF Test System	MWRF	MTS 8310	2.0.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2024-05-18	2026-05-17
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2024-05-18	2026-05-17
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 91270	01193	2024-05-18	2026-05-17
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2024-05-17	2025-05-16
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2024-05-17	2025-05-16
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2024-05-17	2025-05-16
7	HB-E009	POSITINAL COTROLLE R	Noyetec	N/A	N/A	/	/
8	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
9	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2024-05-21	2025-05-20
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-245	2024-05-18	2026-05-17
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2024-05-17	2025-05-16
Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2024-05-17	2025-05-16
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2024-05-17	2025-05-16
3	HB-E016	ZN23201	Noyetec	ZN23201	N/A	2024-05-21	2025-05-20
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2024-05-17	2025-05-16
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2024-05-17	2025-05-16
RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG AnaioG Signal Generator	Agilent	N5181A	MY47070421	2024-05-17	2025-05-16
2	HB-E042	WIDEBAND RADIO COMMUNICA	R&S	CMW500	132108	2024-05-17	2025-05-16

		TION TESTER					
3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2024-05-17	2025-05-16
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2024-05-17	2025-05-16
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	/	/
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1	N/A	/	/

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard Requirement

15.203 requirement: For intentional device, according to 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

5.1.2 Test Result

The EUT antenna is PCB Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
Note: 1. the tighter limit applies at the band edges. 2. the limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.		

5.2.2 Test Procedures

a) EUT Operating Conditions

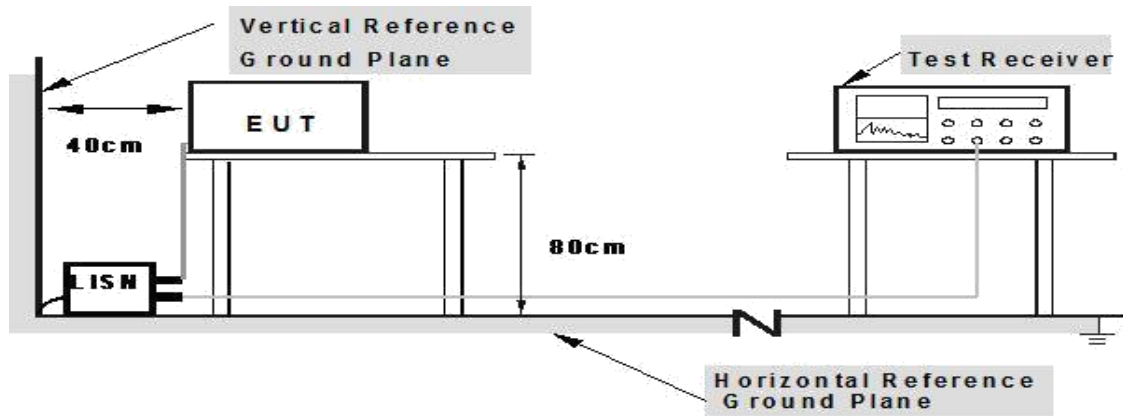
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following table is the setting of the receiver

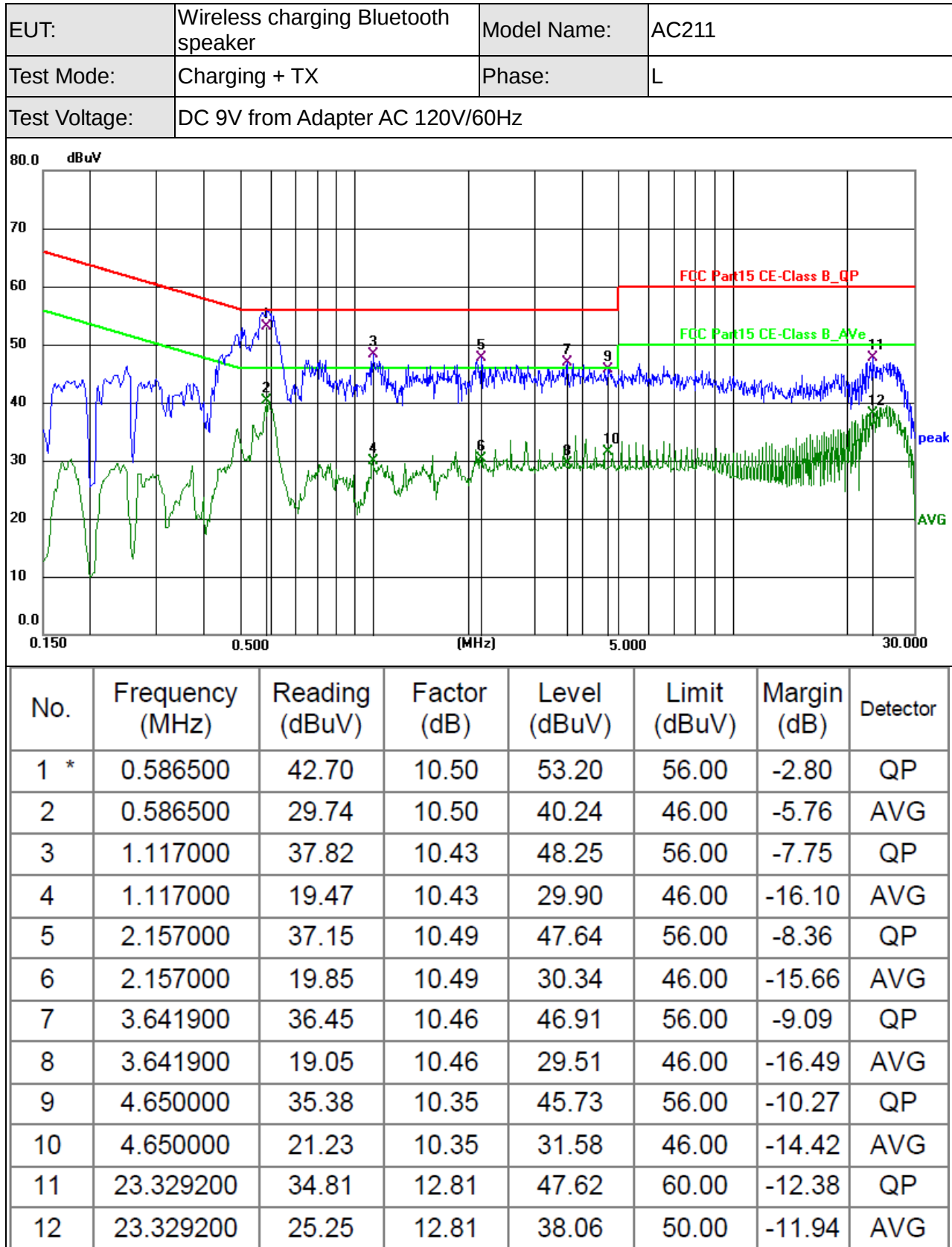
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

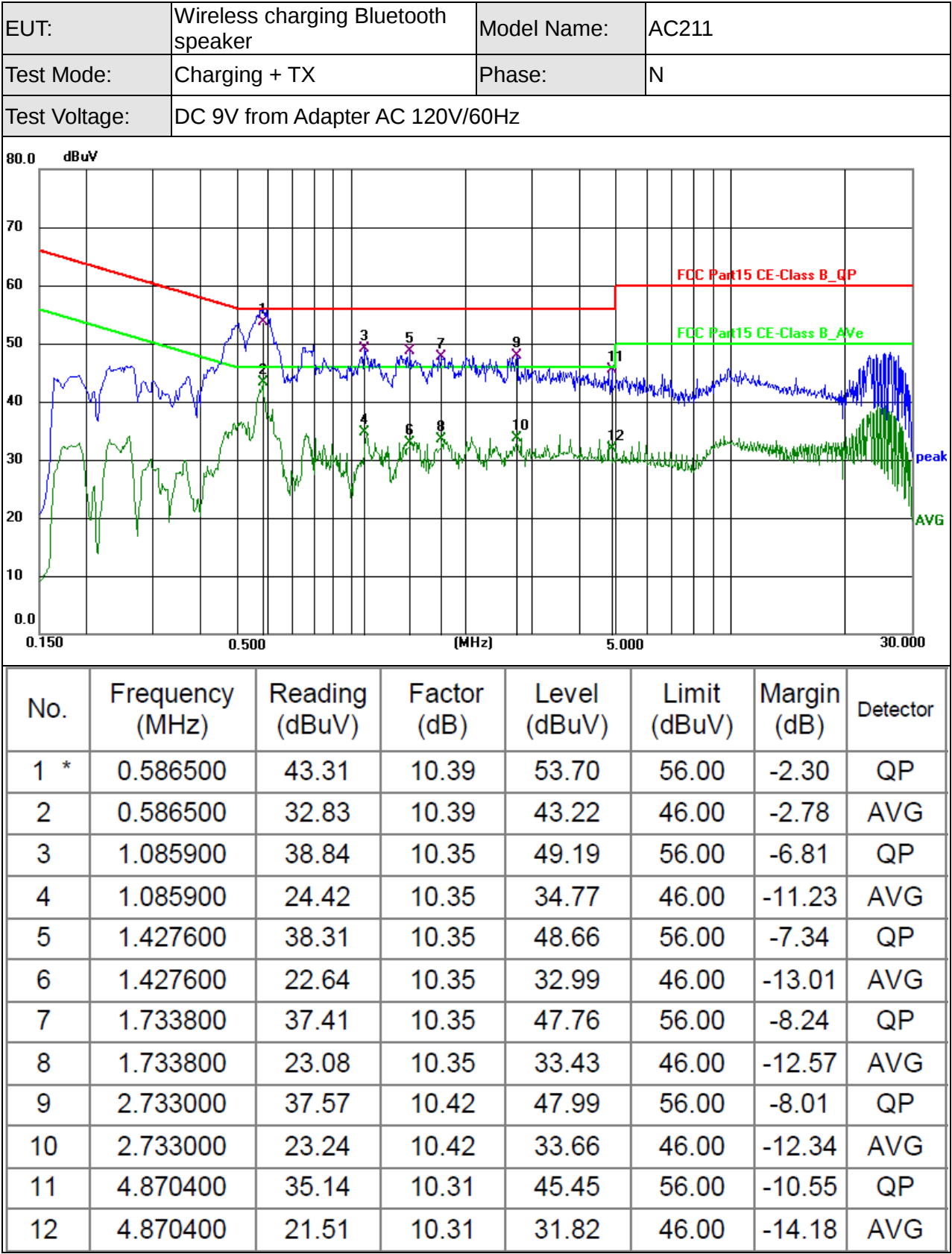
- c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



5.2.4 Test Result





5.3 Radiated Emission

5.3.1 Limits

Frequencies (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

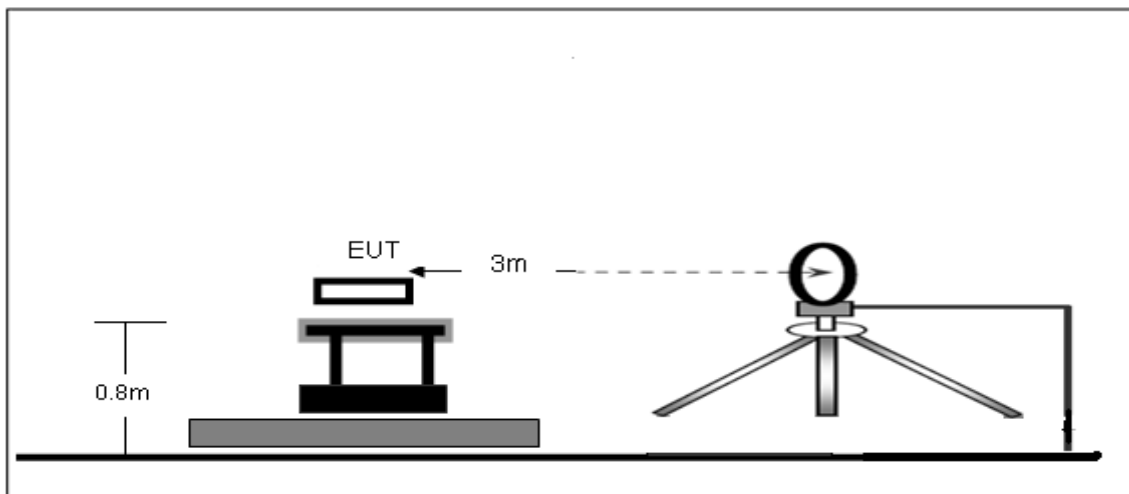
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

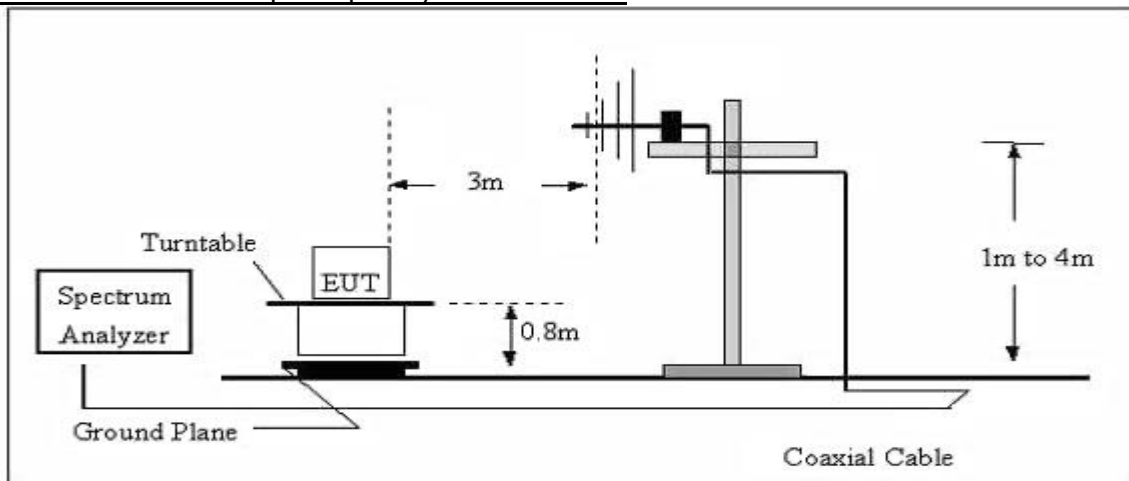
- The radiated emission tests were performed in the 3 meters.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.
- If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
- For the actual test configuration, please refer to the related item – EUT test photos.

5.3.3 Test Setup

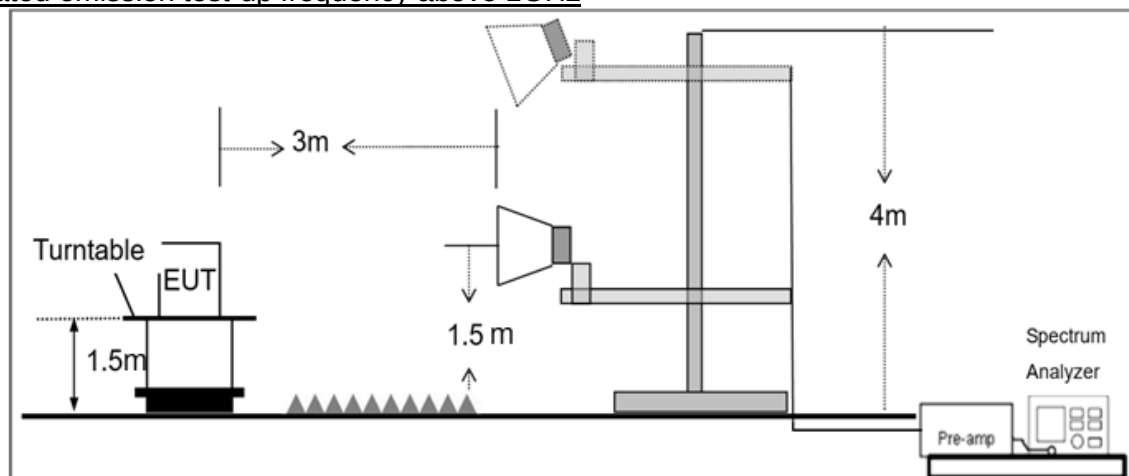
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.4 Test Result

Below 30MHz

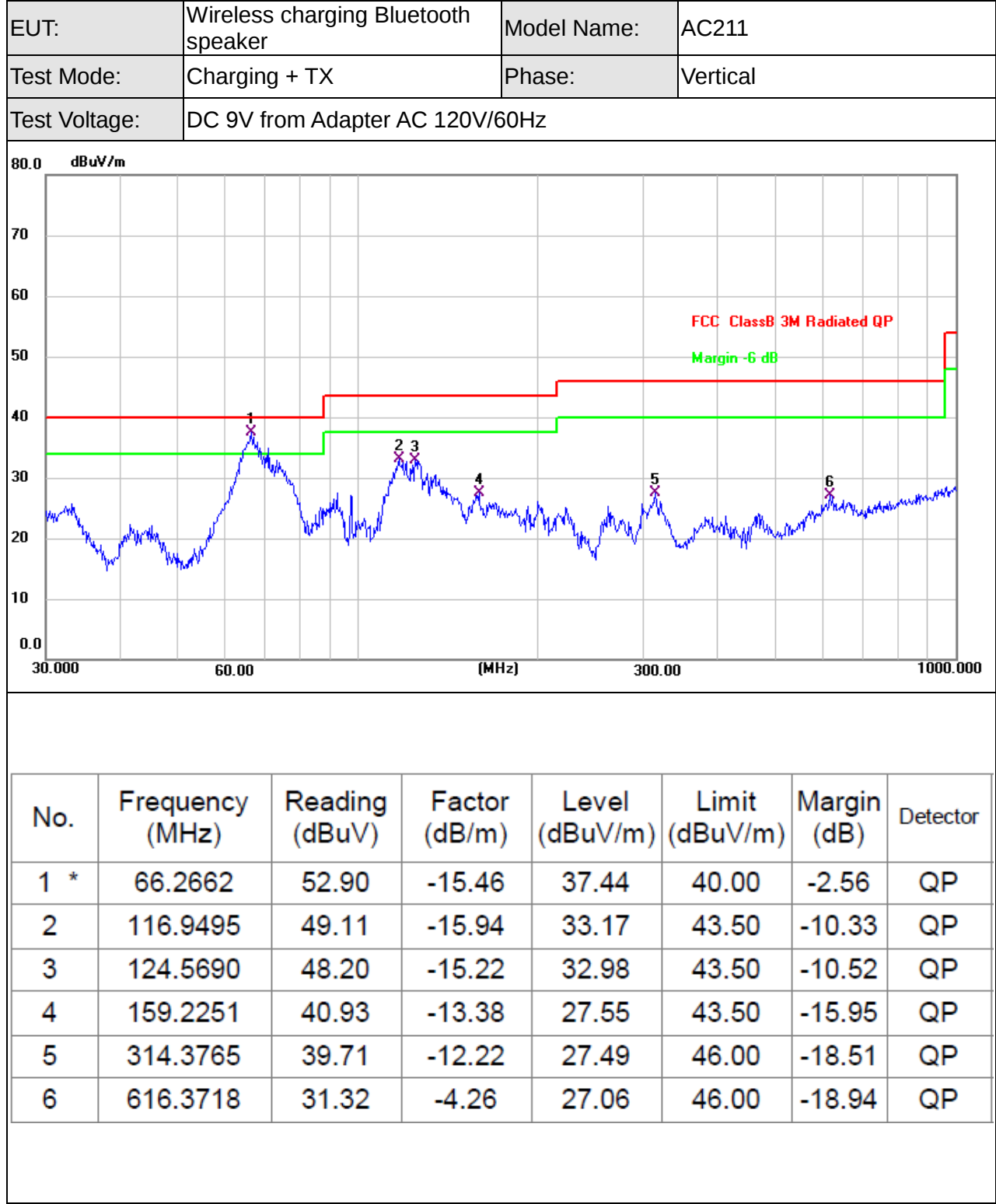
EUT:	Wireless charging Bluetooth speaker	Model Name:	AC211
Pressure:	1010 hPa	Test Voltage:	DC 9V from Adapter AC 120V/60Hz or DC 3.7V from battery
Test Mode:	Charging + TX	Polarization:	--

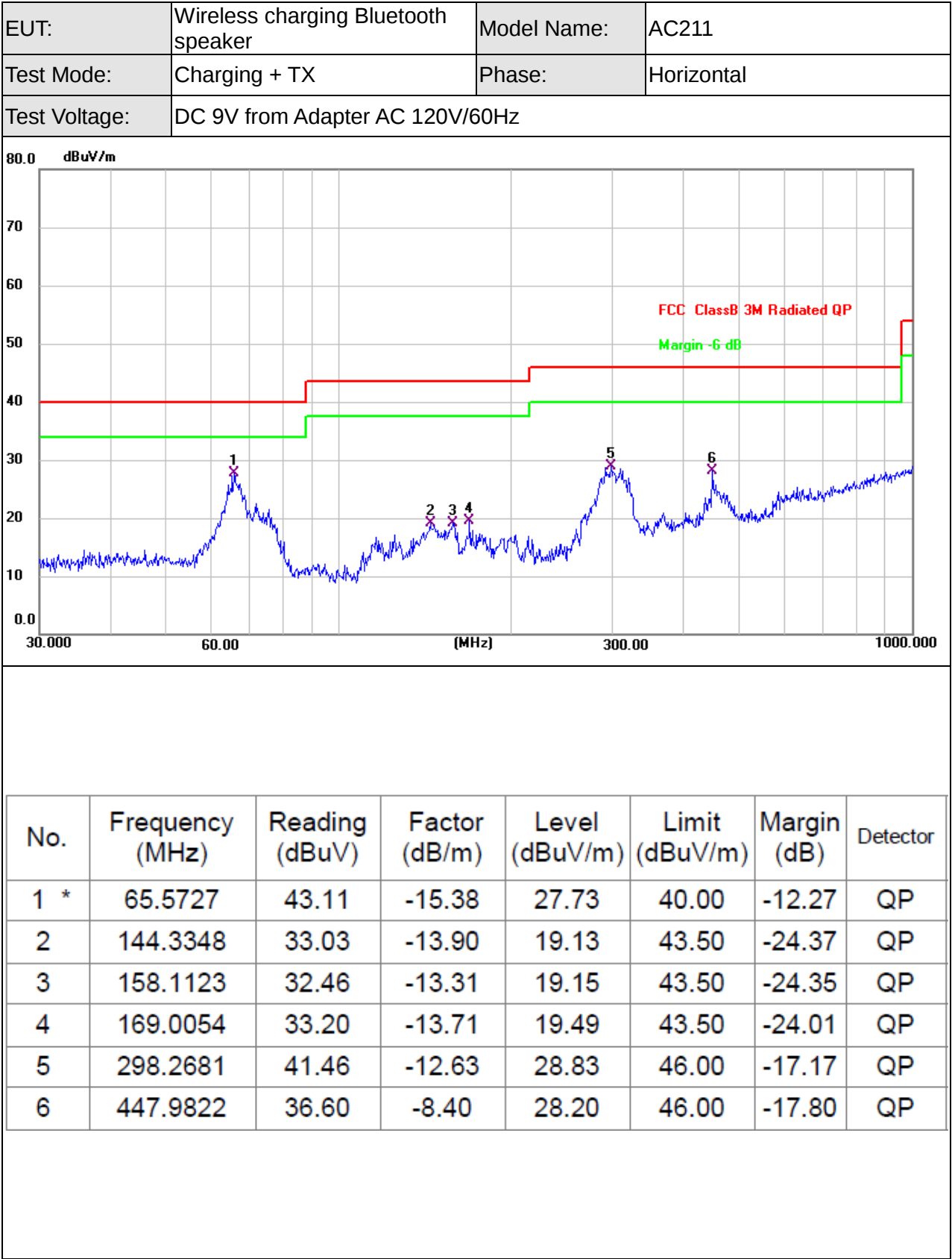
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note:

1. For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
3. Limit line = specific limits (dBuV) + distance extrapolation factor.

30MHz – 1GHz





1GHz-25GHz

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2402 MHz)(GFSK)--Above 1G									
4804.125	42.85	4.83	33.5	30.80	50.38	74.00	-23.62	Pk	Vertical
4804.125	31.79	4.83	33.5	30.80	39.32	54.00	-14.68	AV	Vertical
7206.261	42.94	5.83	37.79	31.40	55.16	74.00	-18.84	Pk	Vertical
7206.261	31.84	5.83	37.79	31.40	44.06	54.00	-9.94	AV	Vertical
4804.194	43.01	4.83	33.5	30.80	50.54	74.00	-23.46	Pk	Horizontal
4804.194	31.70	4.83	33.5	30.80	39.23	54.00	-14.77	AV	Horizontal
7206.274	42.59	5.83	37.79	31.40	54.81	74.00	-19.19	Pk	Horizontal
7206.274	32.03	5.83	37.79	31.40	44.25	54.00	-9.75	AV	Horizontal
Mid Channel (2441 MHz)(GFSK)--Above 1G									
4882.139	44.03	4.89	33.76	30.80	51.88	74.00	-22.12	Pk	Vertical
4882.139	31.87	4.89	33.76	30.80	39.72	54.00	-14.28	AV	Vertical
7323.284	44.42	5.95	38.25	31.70	56.92	74.00	-17.08	Pk	Vertical
7323.284	32.76	5.95	38.25	31.70	45.26	54.00	-8.74	AV	Vertical
4882.215	43.89	4.89	33.76	30.80	51.74	74.00	-22.26	Pk	Horizontal
4882.215	31.96	4.89	33.76	30.80	39.81	54.00	-14.19	AV	Horizontal
7323.299	43.85	5.95	38.25	31.70	56.35	74.00	-17.65	Pk	Horizontal
7323.299	32.76	5.95	38.25	31.70	45.26	54.00	-8.74	AV	Horizontal
High Channel (2480 MHz)(GFSK)-- Above 1G									
4960.143	42.88	4.95	34.33	30.80	51.36	74.00	-22.64	Pk	Vertical
4960.143	32.05	4.95	34.33	30.80	40.53	54.00	-13.47	AV	Vertical
7440.296	43.29	6.11	37.60	31.74	55.26	74.00	-18.74	Pk	Vertical
7440.296	32.24	6.11	37.60	31.74	44.21	54.00	-9.79	AV	Vertical
4960.245	42.93	4.95	34.33	30.80	51.41	74.00	-22.59	Pk	Horizontal
4960.245	31.95	4.95	34.33	30.80	40.43	54.00	-13.57	AV	Horizontal
7440.304	43.16	6.11	37.60	31.74	55.13	74.00	-18.87	Pk	Horizontal
7440.304	32.26	6.11	37.60	31.74	44.23	54.00	-9.77	AV	Horizontal

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.
3. All the modulation modes have been tested, and only the worst results are reflected in the report.

5.3.5 Radiated Band Edge

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detection Type	Comment
1Mbps(GFSK)- Non-hopping									
2310.00	46.10	3.40	27.80	32.41	44.89	74	-29.11	Pk	Horizontal
2310.00	33.45	3.40	27.80	32.41	32.24	54	-21.76	AV	Horizontal
2310.00	44.65	3.40	27.80	32.41	43.44	74	-30.56	Pk	Vertical
2310.00	33.61	3.40	27.80	32.41	32.40	54	-21.60	AV	Vertical
2390.00	45.47	3.45	27.70	32.49	44.13	74	-29.87	Pk	Vertical
2390.00	34.64	3.45	27.70	32.49	33.30	54	-20.70	AV	Vertical
2390.00	46.31	3.45	27.70	32.49	44.97	74	-29.03	Pk	Horizontal
2390.00	34.62	3.45	27.70	32.49	33.28	54	-20.72	AV	Horizontal
2400.00	46.55	3.46	27.80	32.54	45.27	74	-28.73	Pk	Vertical
2400.00	34.53	3.46	27.80	32.54	33.25	54	-20.75	AV	Vertical
2400.00	45.98	3.46	27.80	32.54	44.70	74	-29.30	Pk	Horizontal
2400.00	34.34	3.46	27.80	32.54	33.06	54	-20.94	AV	Horizontal
2483.50	47.33	3.48	28.53	32.55	46.79	74	-27.21	Pk	Vertical
2483.50	34.10	3.48	28.53	32.55	33.56	54	-20.44	AV	Vertical
2483.50	46.31	3.48	28.53	32.55	45.77	74	-28.23	Pk	Horizontal
2483.50	33.89	3.48	28.53	32.55	33.35	54	-20.65	AV	Horizontal
2500.00	45.24	3.49	29.20	32.66	45.27	74	-28.73	Pk	Vertical
2500.00	33.92	3.49	29.20	32.66	33.95	54	-20.05	AV	Vertical
2500.00	45.40	3.49	29.20	32.66	45.43	74	-28.57	Pk	Horizontal
2500.00	33.90	3.49	29.20	32.66	33.93	54	-20.07	AV	Horizontal
1Mbps (GFSK)- hopping									
2400.00	47.04	3.46	27.80	32.54	45.76	74	-28.24	Pk	Vertical
2400.00	34.61	3.46	27.80	32.54	33.33	54	-20.67	AV	Vertical
2400.00	45.78	3.46	27.80	32.54	44.50	74	-29.50	Pk	Horizontal
2400.00	34.55	3.46	27.80	32.54	33.27	54	-20.73	AV	Horizontal
2483.50	47.46	3.48	28.53	32.55	46.92	74	-27.08	Pk	Vertical
2483.50	34.07	3.48	28.53	32.55	33.53	54	-20.47	AV	Vertical
2483.50	46.46	3.48	28.53	32.55	45.92	74	-28.08	Pk	Horizontal
2483.50	33.91	3.48	28.53	32.55	33.37	54	-20.63	AV	Horizontal

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamplifier Factor.
3. All the modulation modes have been tested, and only the worst results are reflected in the report.

5.4 Peak Output Power

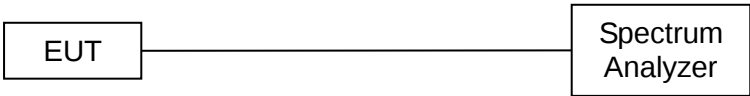
5.4.1 Limit

FCC Part15 Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(1)	Peak output power	Power<1W(30dBm)	2400-2483.5

5.4.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
RBW=2MHz, VBW=10MHz, Detector=Peak
- (3) The EUT was set to continuously transmitting in the max power during the test.

5.4.3 Test Setup



5.4.4 Test Results

EUT:	Wireless charging Bluetooth speaker	Model Name:	AC211
Test Mode:	GFSK, $\pi/4$ -DQPSK, 8DPSK /CH00, CH39, CH78	Test Voltage:	DC 3.7V from battery

GFSK

Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	0.60	30
CH39	2441	0.52	30
CH78	2480	0.13	30

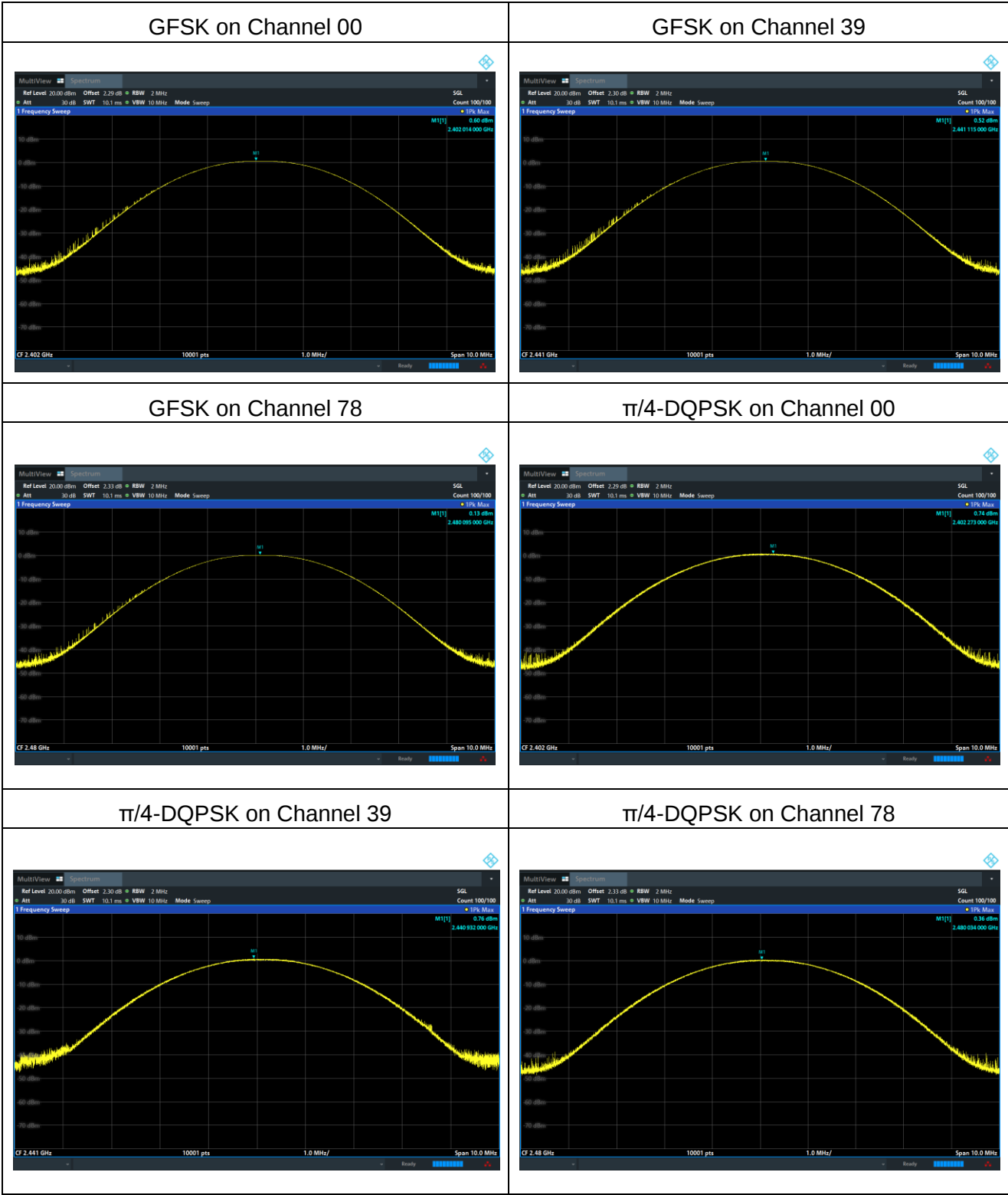
$\pi/4$ -DQPSK

Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	0.74	30
CH39	2441	0.76	30
CH78	2480	0.36	30

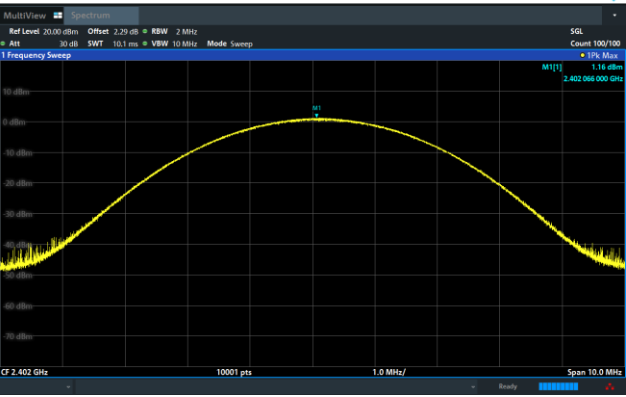
8DPSK

Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	1.16	30
CH39	2441	1.25	30
CH78	2480	0.85	30

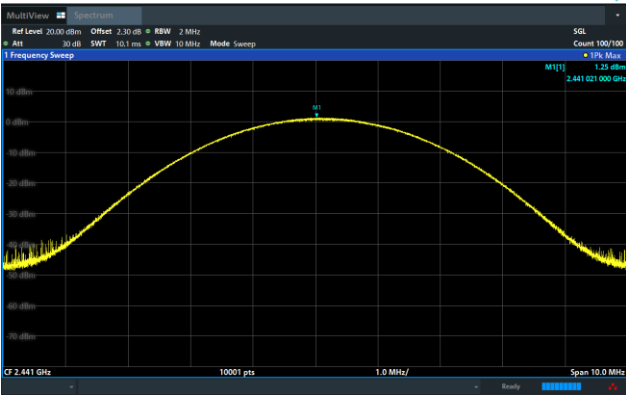
Test plots



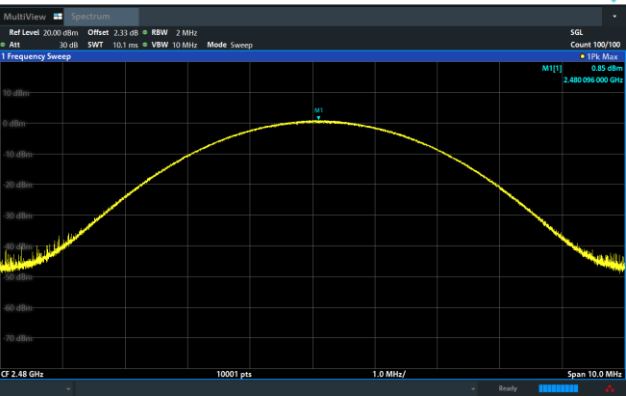
8DPSK on Channel 00



8DPSK on Channel 39



8DPSK on Channel 78



/

/

5.5 20dB Occupied Channel Bandwidth

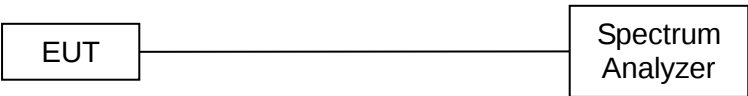
5.5.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247a(1)	20dB bandwidth	N/A	2400-2483.5

5.5.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
Bandwidth: RBW=30 kHz, VBW=100 kHz, detector= Peak

5.5.3 Test Setup



5.5.4 Test results

EUT:	Wireless charging Bluetooth speaker	Model Name:	AC211
Test Mode:	GFSK, $\pi/4$ -DQPSK, 8DPSK /CH00, CH39, CH78	Test Voltage:	DC 3.7V from battery

Mode	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Result
GFSK	2402	0.862	N/A	Pass
	2441	0.926	N/A	Pass
	2480	0.858	N/A	Pass
$\pi/4$ -DQPSK	2402	1.274	N/A	Pass
	2441	1.268	N/A	Pass
	2480	1.275	N/A	Pass
8DPSK	2402	1.273	N/A	Pass
	2441	1.309	N/A	Pass
	2480	1.268	N/A	Pass

Test plots

GFSK mode

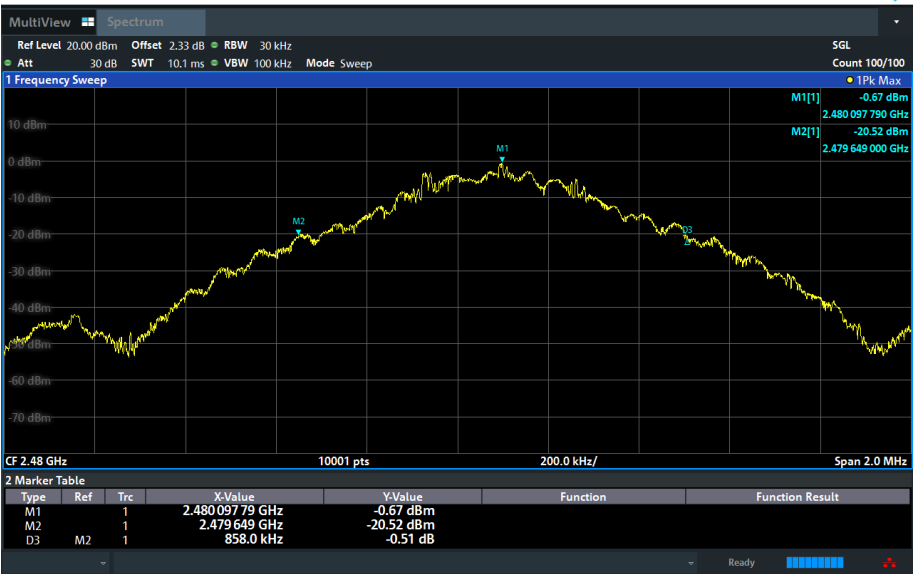
TX CH00



TX CH39

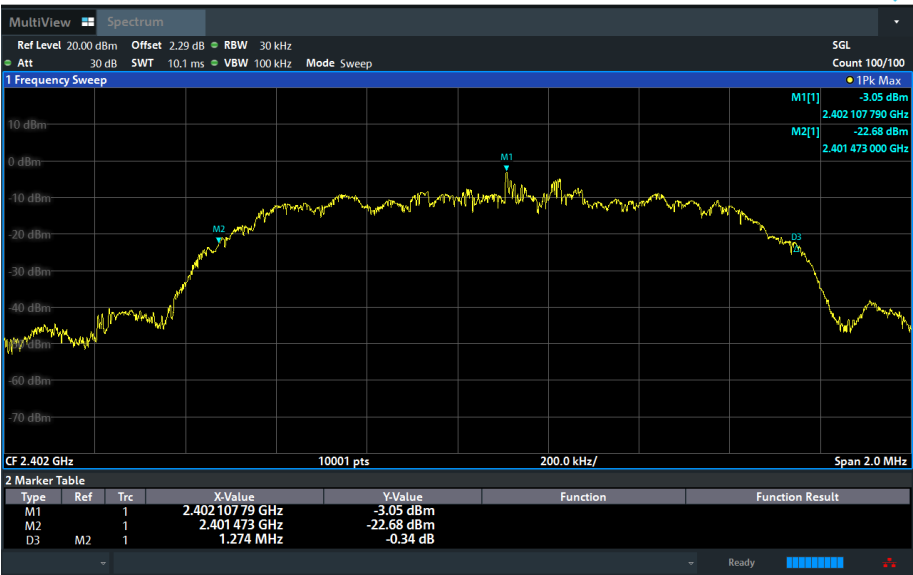


TX CH78

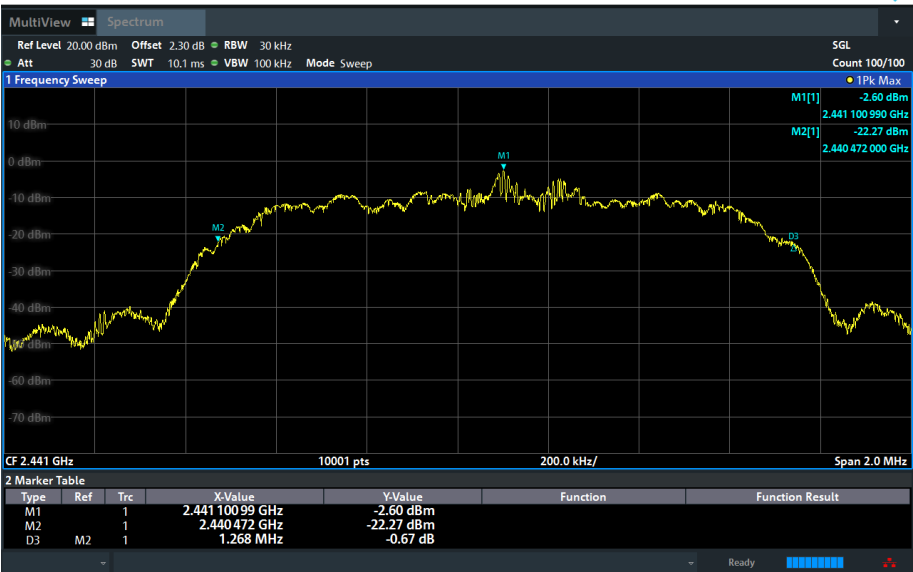


$\pi/4$ -DQPSK

TX CH00



TX CH39



TX CH78



8DPSK mode

TX CH00



TX CH39



