



Radio Test Report

Report No.: STS2512338W02

Issued for

Shen Zhen Sailing Electronic Co., Ltd

29 Building, Baotian Industrial Zone, Chen Tian, Xixiang
Town, Bao An District, Shen Zhen, China

Product Name: Bluetooth FM transmitter

Brand Name: N/A

Model Name: BC91

Series Model(s): Ref. the Section 2.1

FCC ID: 2AEYD-BC91

Test Standards: FCC Part 15.239

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name : Shen Zhen Sailing Electronic Co., Ltd
Address : 29 Building, Baotian Industrial Zone, Chen Tian, Xixiang Town,
Bao An District, Shen Zhen, China
Manufacturer's Name : Shen Zhen Sailing Electronic Co., Ltd
Address : 29 Building, Baotian Industrial Zone, Chen Tian, Xixiang Town,
Bao An District, Shen Zhen, China

Product Description

Product Name : Bluetooth FM transmitter
Brand Name : N/A
Model Name : BC91
Series Model(s) : Ref. the Section 2.1
Test Standards : FCC Part 15.239
Test Procedure : ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test :
Date of Receipt of Test Item .. : 12 Dec. 2025
Date of performance of tests . : 12 Dec. 2025 to 17 Dec. 2025
Date of Issue : 17 Dec. 2025
Test Result : **Pass**

Testing Engineer : _____

Aaron Bu

(Aaron Bu)

Technical Manager : _____

Skylar Li

(Skylar Li)

Authorized Signatory : _____

Bovey Yang

(Bovey Yang)



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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	17 Dec. 2025	STS2512338W02	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 15.239			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.209 15.239(b) (c)	Radiated Emission	PASS	--
15.239(b)	field strength emission	PASS	--
15.203	Antenna Requirement	PASS	--
15.239(a)	20dB Bandwidth	PASS	--

Note: (1) "N/A" denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. :101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Bluetooth FM transmitter	
Trade Name	N/A	
Model Name	BC91	
Series Model	BC42, NX16, BC06B, BC06S, BC09B, BC11B, BC26BQ, BC28, BC29B, BC30BQ, BC31Q, BC32, BC36Q, BC38, BC40Q, BC41, BC41T, BC42, BC42T, BC43, BC45, BC46, BC48, BC49BQ, BC50, BC51, BC51TX, BC52, BC53, BC54, BC55, BC56, BC57, BC58, BC58T, BC59, BC60, BC61, BC62, BC63, BC64, BC65, BC66, BC67, BC68, BC69, BC70, BC71, BC72, BC73, BC74, BC75, BC76, BC77, BC78, BC79, BC80, BC80L, BC81, BC82, BC83, BC84, BC85, BC86, BC87, BC88, BC89, BC90, BC92, BC93, BC94, BC95, BC96, BC97, BC98, BC99, BC100, BC101, BC102, BC103, BC104, BC105, BC106, BC107, BC108, BC109, BC110, BC111, BC112, BC113, BC114, BC115, BC116, BC117, BC118, BC119, BC120, BC121, BC122, BC123, BC124, BC125, BC126, BC127, BC128, BC129, BC130, BC131, BC132, BC133, BC134, BC135, BC136, BC137, BC138, BC139, BC140, BC141, BC142, BC143, BC144, BC145, BC146, BC147, BC148, BC149, BC150	
Model Difference	All the models are the same circuit and RF module, except model names and appearance of the color.	
Product Description	The EUT is a Bluetooth FM transmitter	
	Operation Frequency:	88MHz ~108MHz
	Modulation Type:	FM
	Antenna Designation:	Internal antenna
	Antenna Gain(Peak)	0 dBi
More details of EUT technical specification, please refer to the User Manual.		
Channel List	Please refer to the Note 3.	
Power Rating	Input: DC 12-24V QC3.0 Output: 5V/3A, 9V/2A, 12V/1.5A PD Output: 5V/3A, 9V/3A, 12V/3A PPS: 3.3V-11V/3A	
Adapter	N/A	
Battery	N/A	
Hardware version number	N/A	
Software version number/FVIN	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2. Table for filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Internal	N/A	0	Antenna

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

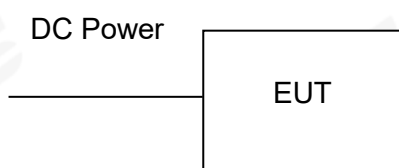
Pretest Mode	Description
Mode 1	TX Mode(Low channel)
Mode 2	TX Mode(Middle channel)
Mode 3	TX Mode(High channel)

Note:

(2)The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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





2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST

RF Radiation Test Equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Power detector group	Keysight	NW2021031	N/A	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	MW	MTS 8310_2.0.0.0			



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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.

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

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.

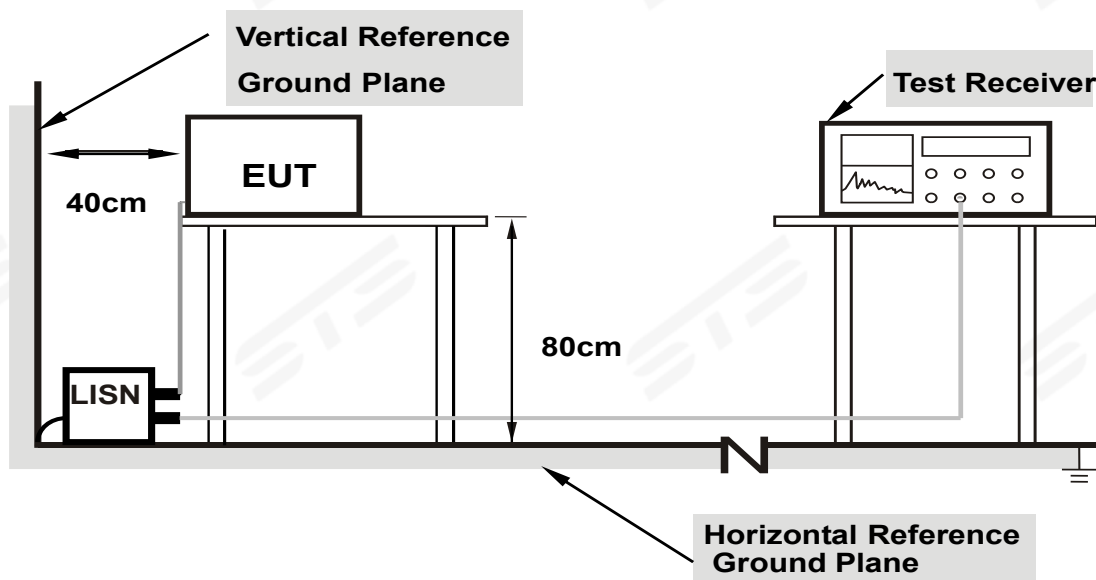
The following table is the setting of the receiver

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

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



- Note: 1. Support units were connected to second LISN.**
- 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.**

3.4 TEST RESULTS

Temperature:	N/A	Relative Humidity:	N/A
Test Voltage:	N/A	Phase :	L/N
Test Mode:	N/A		

Note: EUT is only power by battery, So it is not applicable for this test.



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on Part 15.205(a), then the Part 15.209(a) and Part 15.231(b) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/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

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



4.2 TEST PROCEDURE

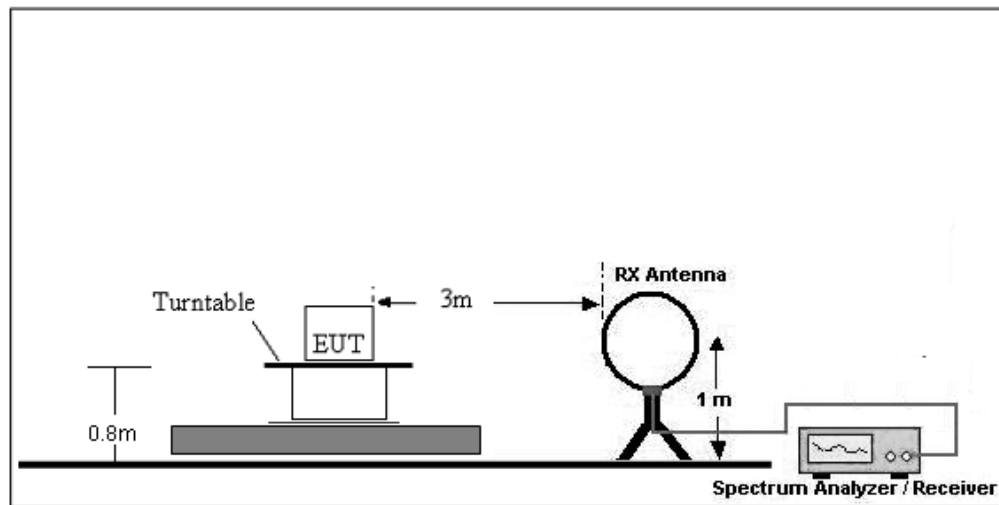
- a. The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower. During test, The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. In the frequency range of 9KHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
 - c. In the frequency range 30MHz-1GHz, Bi-Log Test Antenna used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.
 - d. In the frequency above 1GHz, Place the measurement antenna 3m away from the EUT for each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
 - f. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
 - g. 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.
 - h. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- Both horizontal and vertical antenna polarities and performed pretest to three orthogonal axis were tested. The worst case emissions were reported

4.3 DEVIATION FROM TEST STANDARD

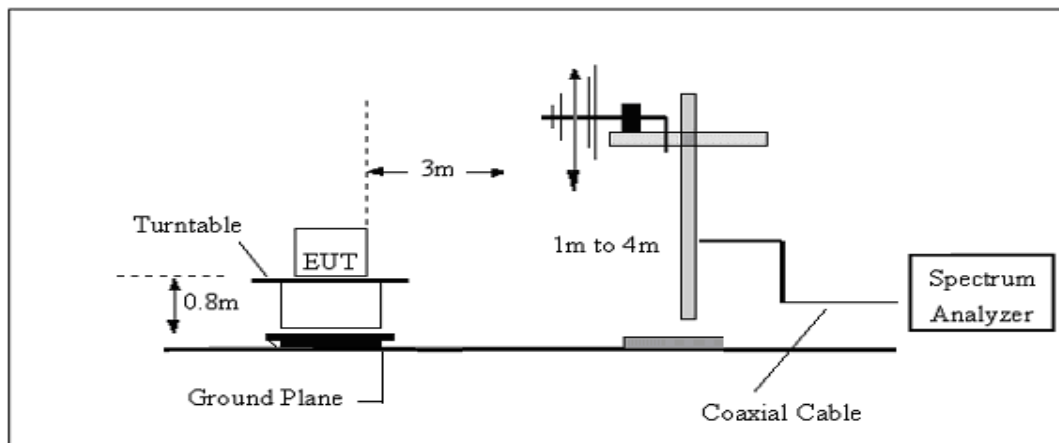
No deviation

4.4 TEST SETUP

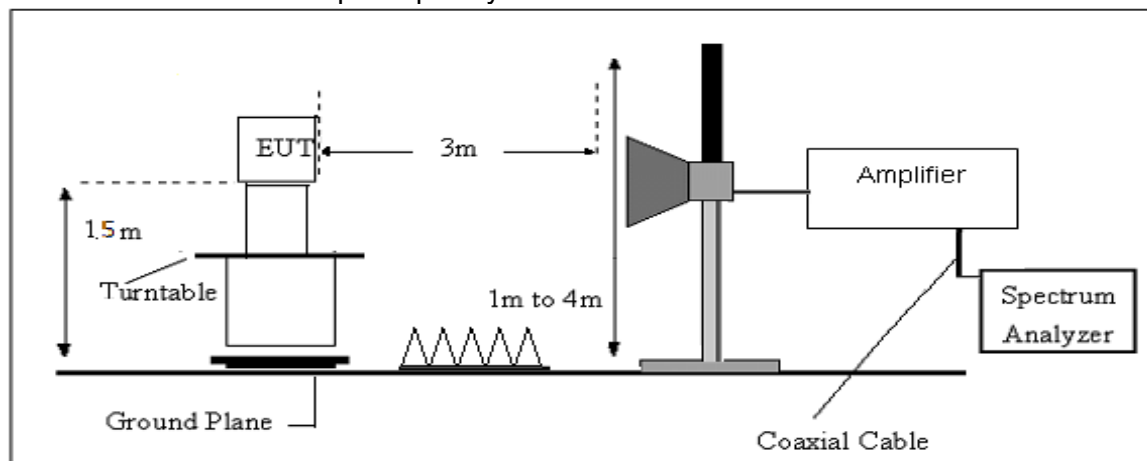
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





4.5 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

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

4.8 TEST RESULTS

(Radiated Emission < 30MHz (9KHz-30MHz, H-field))

Temperature:	26°C	Relative Humidity:	54%
Test Mode:	Mode 1	Polarization:	--

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

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

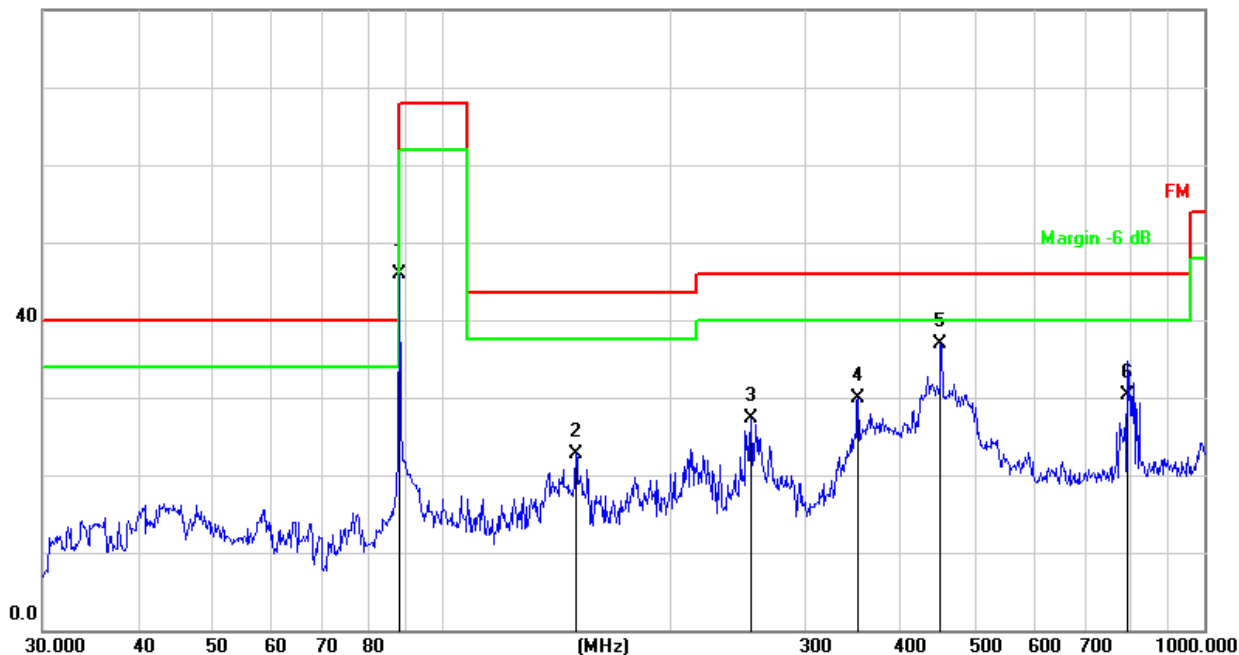
Limit line = specific limits (dBuV) + distance extrapolation factor.



Between 30-1000MHz

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Phase:	Horizontal
Test Mode:	Mode 1		

80.0 dBuV/m



Remark:

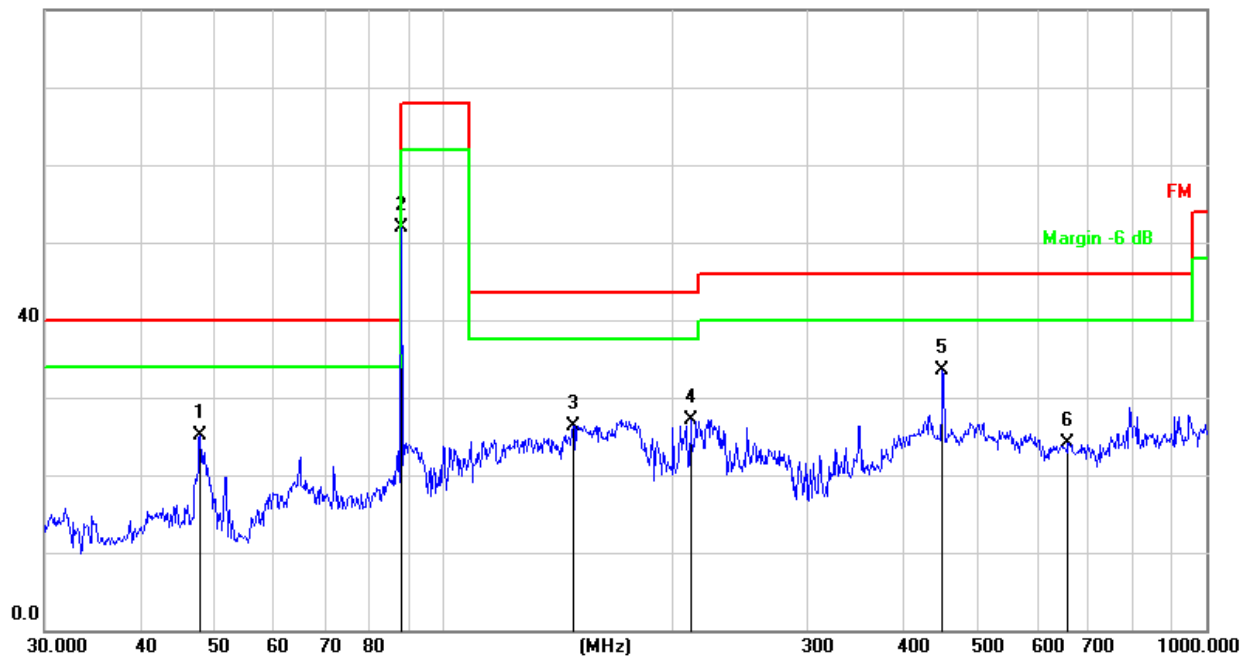
1. Margin = Result (Result =Reading + Factor)-Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		88.0327	63.70	-17.86	45.84	68.00	-22.16	QP
2		150.0107	42.23	-19.43	22.80	43.50	-20.70	QP
3		254.7281	41.45	-14.19	27.26	46.00	-18.74	QP
4		351.7078	41.43	-11.46	29.97	46.00	-16.03	QP
5	*	451.1349	46.77	-9.83	36.94	46.00	-9.06	QP
6		793.3958	34.73	-4.48	30.25	46.00	-15.75	QP



Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Phase:	Vertical
Test Mode:	Mode 1		

80.0 dBuV/m

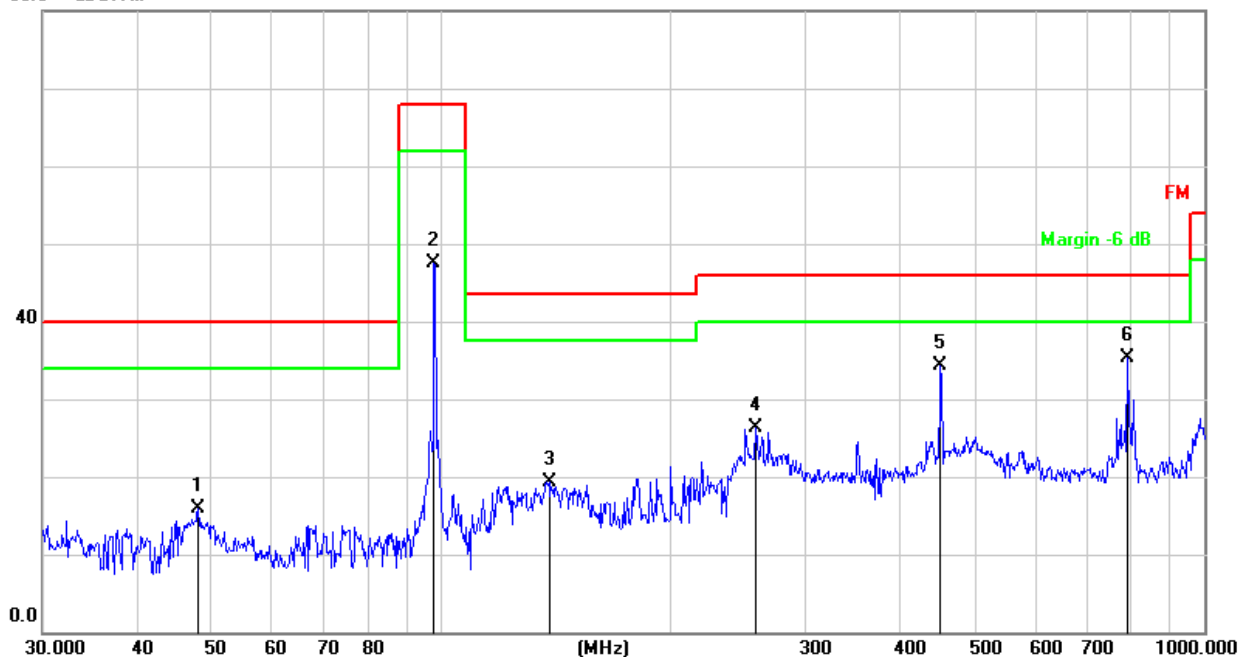


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		47.9938	39.14	-14.06	25.08	40.00	-14.92	QP
2		88.0327	69.77	-17.86	51.91	68.00	-16.09	QP
3		147.9214	45.58	-19.28	26.30	43.50	-17.20	QP
4		210.7860	42.50	-15.41	27.09	43.50	-16.41	QP
5	*	451.1349	43.37	-9.83	33.54	46.00	-12.46	QP
6		658.8360	30.27	-6.08	24.19	46.00	-21.81	QP



Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Phase:	Horizontal
Test Mode:	Mode 2		

80.0 dBuV/m



Remark:

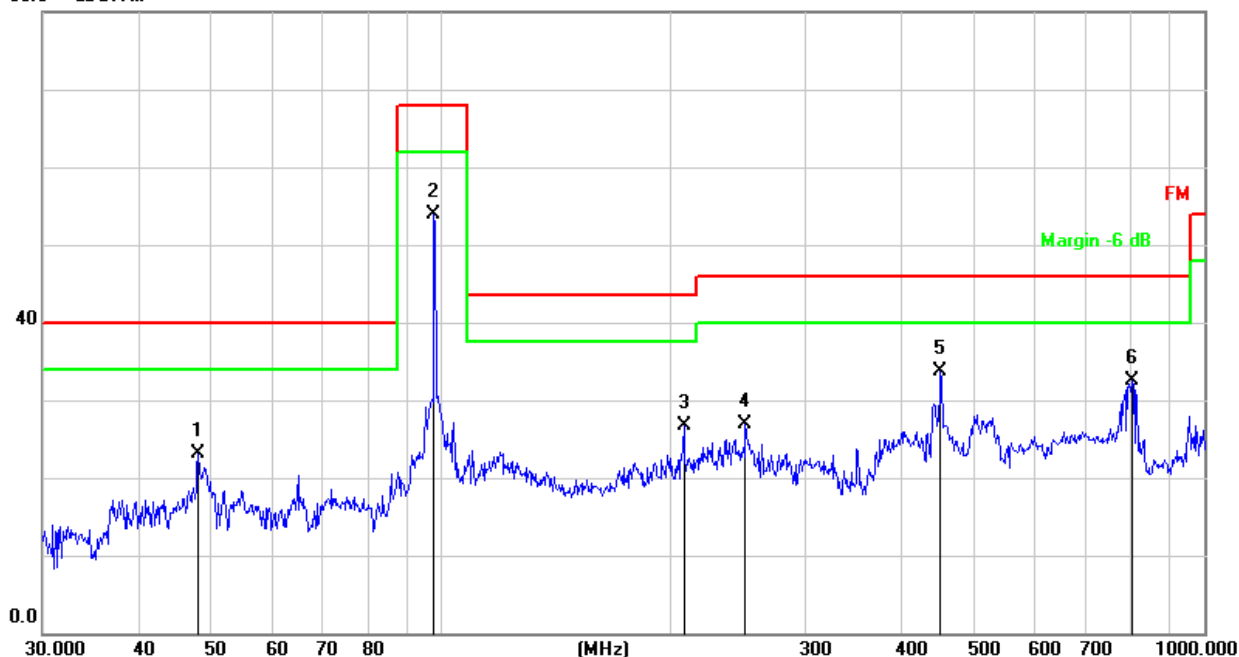
1. Margin = Result (Result = Reading + Factor) - Limit

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		47.9938	29.94	-14.06	15.88	40.00	-24.12	QP
2		97.7980	63.74	-16.25	47.49	68.00	-20.51	QP
3		138.3873	38.02	-18.62	19.40	43.50	-24.10	QP
4		258.3263	40.35	-14.11	26.24	46.00	-19.76	QP
5		451.1349	44.19	-9.83	34.36	46.00	-11.64	QP
6	*	793.3958	39.85	-4.48	35.37	46.00	-10.63	QP



Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Phase:	Vertical
Test Mode:	Mode 2		

80.0 dBuV/m



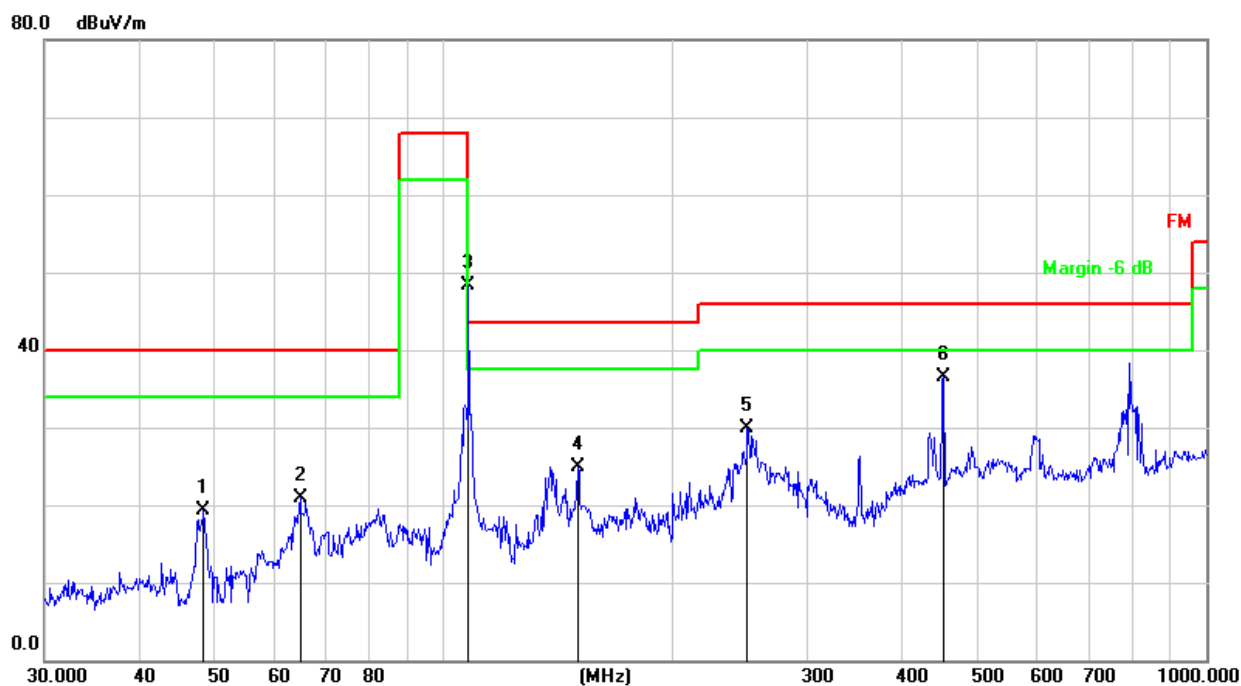
Remark:

1. Margin = Result (Result = Reading + Factor) - Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		47.9938	37.15	-14.06	23.09	40.00	-16.91	QP
2		97.7980	70.09	-16.25	53.84	68.00	-14.16	QP
3		207.8497	42.24	-15.50	26.74	43.50	-16.76	QP
4		250.3009	41.27	-14.28	26.99	46.00	-19.01	QP
5	*	451.1349	43.44	-9.83	33.61	46.00	-12.39	QP
6		804.6028	36.82	-4.36	32.46	46.00	-13.54	QP



Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Phase:	Horizontal
Test Mode:	Mode 3		



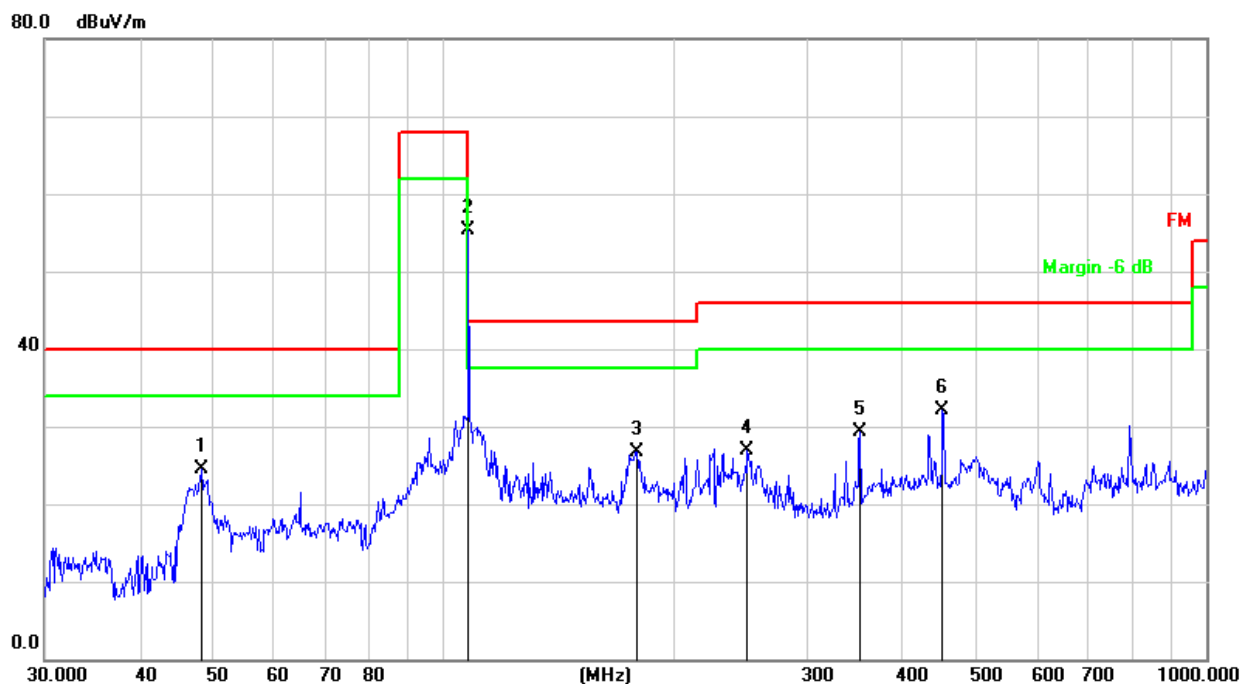
Remark:

1. Margin = Result (Result = Reading + Factor) - Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
		MHz	Level	Factor	ment		
			dBuV	dB	dBuV/m	dB/m	dB
1		48.5016	33.34	-14.02	19.32	40.00	-20.68
2		64.8863	37.47	-16.59	20.88	40.00	-19.12
3		107.8876	64.78	-16.48	48.30	68.00	-19.70
4		150.0107	44.36	-19.43	24.93	43.50	-18.57
5		250.3009	44.10	-14.28	29.82	46.00	-16.18
6	*	452.7196	46.20	-9.79	36.41	46.00	-9.59



Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Phase:	Vertical
Test Mode:	Mode 3		



Remark:

1. Margin = Result (Result = Reading + Factor) - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		48.1625	38.61	-14.05	24.56	40.00	-15.44	QP
2	*	107.8876	71.80	-16.48	55.32	68.00	-12.68	QP
3		179.3863	43.96	-17.25	26.71	43.50	-16.79	QP
4		250.3009	41.13	-14.28	26.85	46.00	-19.15	QP
5		351.7078	40.86	-11.46	29.40	46.00	-16.60	QP
6		451.1349	41.84	-9.83	32.01	46.00	-13.99	QP

Note:

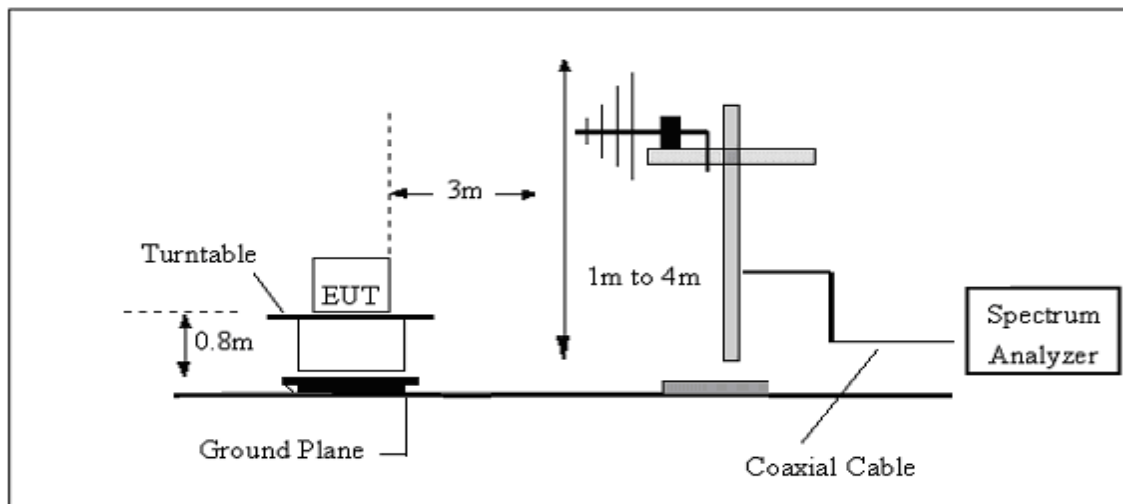
1. Above 2.6 GHz The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. The peak value is less than the AV limit, so AV data does not need to be tested.

5. FIELD STRENGTH EMISSION

5.1 REQUIREMENT

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

5.2 TEST SETUP



5.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.5 TEST RESULTS

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Test Mode:	TX Mode

3m distance measured

Frequency (MHz)	Emission Level (dBμV/m)		Limits (dBμV/m)	Margin (dB)	Horizontal /Vertical
88.1	40.32	PK	68	-27.68	H
88.1	33.35	AV	48	-14.65	H
88.1	54.28	PK	68	-13.72	V
88.1	37.82	AV	48	-10.18	V
98	44.51	PK	68	-23.49	H
98	32.98	AV	48	-15.02	H
98	58.54	PK	68	-9.46	V
98	37.24	AV	48	-10.76	V
107.9	47.52	PK	68	-20.48	H
107.9	31.32	AV	48	-16.68	H
107.9	58.63	PK	68	-9.37	V
107.9	36.18	AV	48	-11.82	V



6. 20DB BANDWIDTH

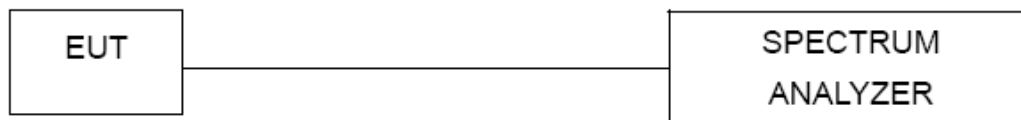
6.1 APPLIED PROCEDURES / LIMIT

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

6.2 TEST PROCEDURE

1. Set RBW = 10kHz.
2. Set the video Mobile Phonewidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

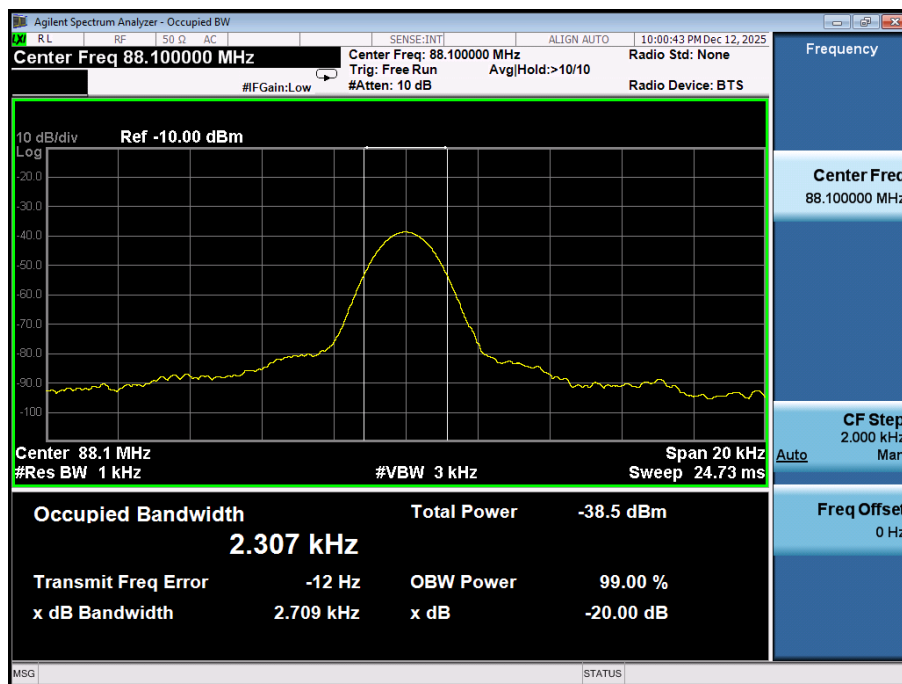


6.5 TEST RESULTS

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	DC 24V	Test Mode:	TX Mode

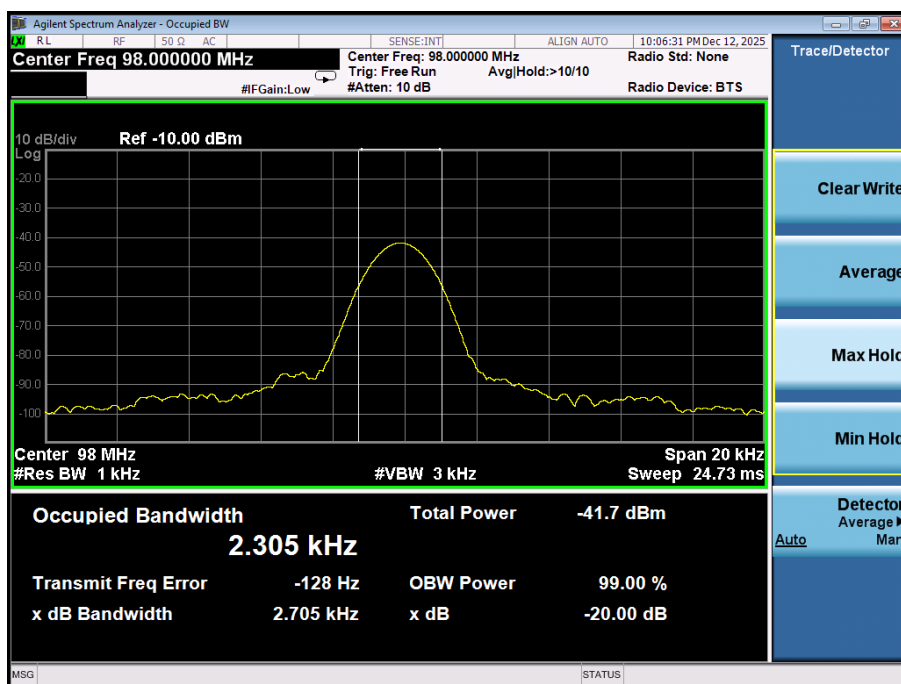
Centre Frequency	Measurement	
	20dB Bandwidth (KHz)	Frequency Range (MHz)
88.10	2.709	88-108
98.10	2.705	88-108
107.90	2.753	88-108

Low channel

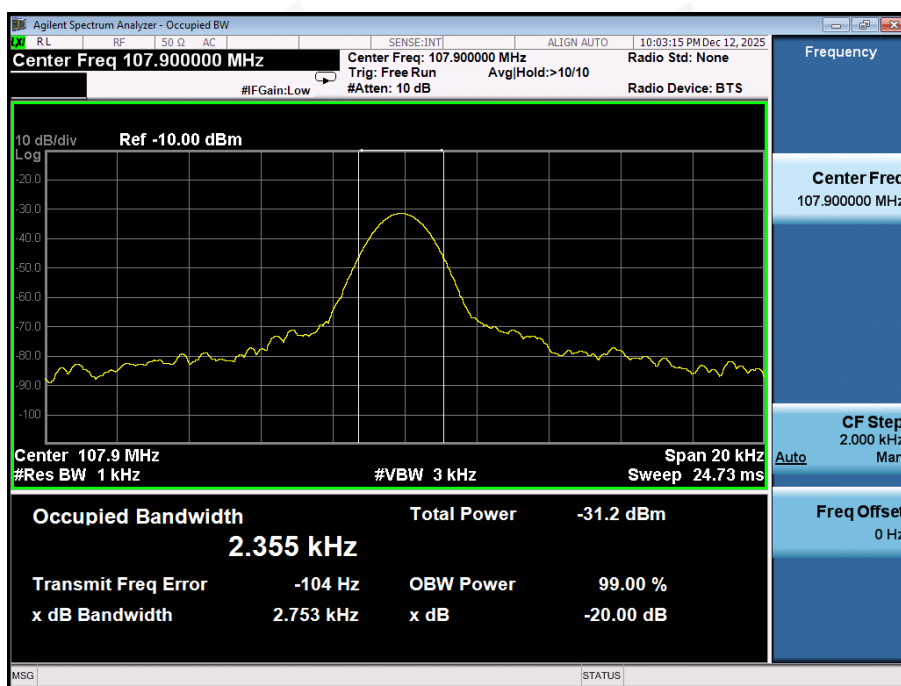




Middle channel



High channel





7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

According to the FCC Part 15 Paragraph 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 to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

7.2 EUT ANTENNA

The EUT antenna is Internal Antenna. It conforms to the standard requirements.



APPENDIX 1-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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