FCC TEST REPORT

Report No: STS2105122W02

Issued for

Shenzhen Jiayz photo industrial.,Ltd

A16 Builing,Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan, Longhua District, Shenzhen, China

Product Name:	Wireless Handheld Microphone
Brand Name:	BOYA, MOVO
Model Name:	WMX-7-TH
Series Model:	WMX-7 RX, WMX-7-SP, BY-WHM12, SP-RX12
FCC ID:	2ARN3-WHM12
Test Standard:	FCC Part 15.236

Shenzhen STS Test Services Co., Ltd.
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TEST RESULT CERTIFICATION

Applicant's Name ..... :	Shenzhen Jiayz photo industrial.,Ltd
Address ..... :	A16 Builing,Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan, Longhua District, Shenzhen, China
Manufacturer's Name ..... :	Shenzhen Jiayz photo industrial.,Ltd
Address ..... :	A16 Builing,Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan, Longhua District, Shenzhen, China

Product Description

Product Name ..... :	Wireless Handheld Microphone
Brand Name ..... :	BOYA, MOVO
Model Name ..... :	WMX-7-TH
Series Model ..... :	WMX-7 RX, WMX-7-SP, BY-WHM12, SP-RX12
Test Standards ..... :	FCC Part 15.236
Test Procedure ..... :	ANSI C63.10-2013

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 requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test ..... :	
Date of receipt of test item..... :	25 May 2021
Date of performance of tests ..... :	25 May 2021 ~ 03 Aug. 2021
Date of Issue ..... :	03 Aug. 2021
Test Result..... :	Pass

Testing Engineer : Chris Chen

(Chris Chen)

Technical Manager : Sean She

(Sean she)

Authorized Signatory : Vita Li

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	03 Aug. 2021	STS2105122W02	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
The EUT has been tested according to FCC CFR 47:
Part 15.236: Operation of wireless microphones in the bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-698 MHz.

Emission			
Standard	Item	Limit	Result
FCC 15.236(g)	Radiated Spurious Emission	Refer to 300 422-1 V1.4.2 (8.4)	PASS
FCC 15.236(d)(1)	EIRP	≤50 mW	PASS
FCC 15.215	Occupied Bandwidth	--	PASS
FCC 15.236(f)(3)	Frequency tolerance	±0.005%	PASS
FCC 15.236(g)	Necessary Bandwidth (Mask)	Refer to 300 422-1 V1.4.2 (8.3)	PASS
FCC 15.207	Conducted Emission	--	N/A
FCC 15.209	Radiated Spurious Emission	Refer to Part 15.209(a)	PASS
FCC 15.205	Restricted bands of operation	Refer to Part 15.205(a)	PASS

NOTE:

(1) “N/A” denotes test is not applicable in this Test Report.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong 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 ± 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 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Wireless Handheld Microphone
Brand Name:	BOYA, MOVO
Model Name:	WMX-7-TH
Series Model :	WMX-7 RX, WMX-7-SP, BY-WHM12, SP-RX12
Model Difference description:	Only different in model name and brand name.
Emission Bandwidth:	76.918KHz
Rating:	Two AA batteries(DC 3V from battery)
Operation Frequency Range	204-215MHz
Maximum Transmitter Power:	0.005W(7.27dBm)
Modulation mode / type:	GFSK
Frequency Tolerance:	0.0018%
Temperature Range:	-20℃-50℃
Test frequency list:	Please refer to the Note 5.
Software version number:	BY-WHM12 V1.1
Hardware version number:	V1.3
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. Note: The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.
3.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	204	02	205	03	206
04	207	05	208	06	209
07	210	08	211	09	212
10	213	11	214	12	215

4. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	BOYA, MOVO	WMX-7-TH	PCB Antenna	N/A	2.5	Antenna

The EUT antenna is PCB Antenna. no antenna other than that furnished by the responsible party shall be used with the device.

5. Test frequency list

Test Channel List		
Test Channel	EUT Channel	Test Frequency (MHz)
lowest	CH01	204
middle	CH07	210
highest	CH12	215

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test,please see the above listed frequency for testing.

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.

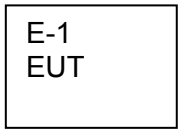
Pretest Mode	Description
Mode 1	Low Channel
Mode 2	Middle Channel
Mode 3	High Channel

For Radiated Emission	
Final Test Mode	Description
Mode 1	Low Channel
Mode 2	Middle Channel
Mode 3	High Channel

Note:

(1) Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse modeis reported by this report.

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

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

2.5 TEST EQUIPMENT

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2019.10.15	2021.10.14
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11
Signal Analyzer	R&S	FSV 40-N	101823	2020.10.10	2021.10.09
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N.C.R	N.C.R
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

RF Connected Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Power Sensor	Keysight	U2021XA	MY55520005	2020.10.10	2021.10.09
			MY55520006	2020.10.10	2021.10.09
			MY56120038	2020.10.10	2021.10.09
			MY56280002	2020.10.10	2021.10.09
Signal Generator	Agilent	N5182A	MY46240556	2020.10.10	2021.10.09
Signal Analyzer	Agilent	N9020A	MY51110105	2021.03.04	2022.03.03
Universal Radio communication tester	R&S	CMU200	119907	2020.10.12	2021.10.11
Audio analyzer	R&S	UPL	N/A	2021.03.04	2022.03.03
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Programmable power supply	Agilent	E3642A	MY40002025	2020.10.12	2021.10.11
Attenuator	HP	8494B	DC-18G	2021.04.28	2022.04.27
AC Power Source	APC	KDF-11010G	F214050035	N.C.R	N.C.R
Test SW	FARAD	LZ-RF /LzRf-3A3			

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)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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.

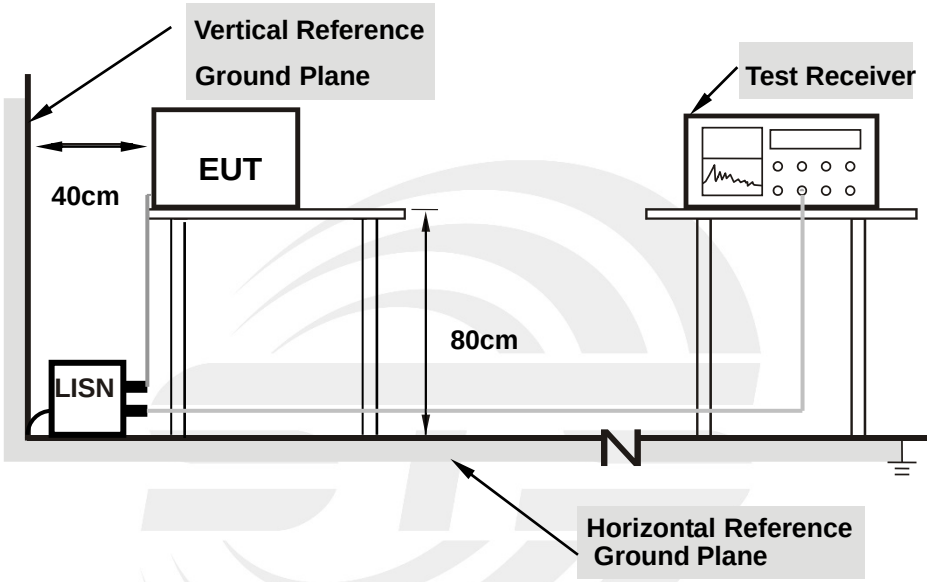
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

a. 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.
b. 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.
c. 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.
d. LISN is at least 80 cm from the nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 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.

3.1.4 TEST RESULT

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.

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a) & 209 (a) limit in the table and according to ANSI C63.10-2013 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

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	390 to 620 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

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

3.2.2 TEST PROCEDURE

a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
d. 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 QuasiPeak detector mode will be re-measured.
e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

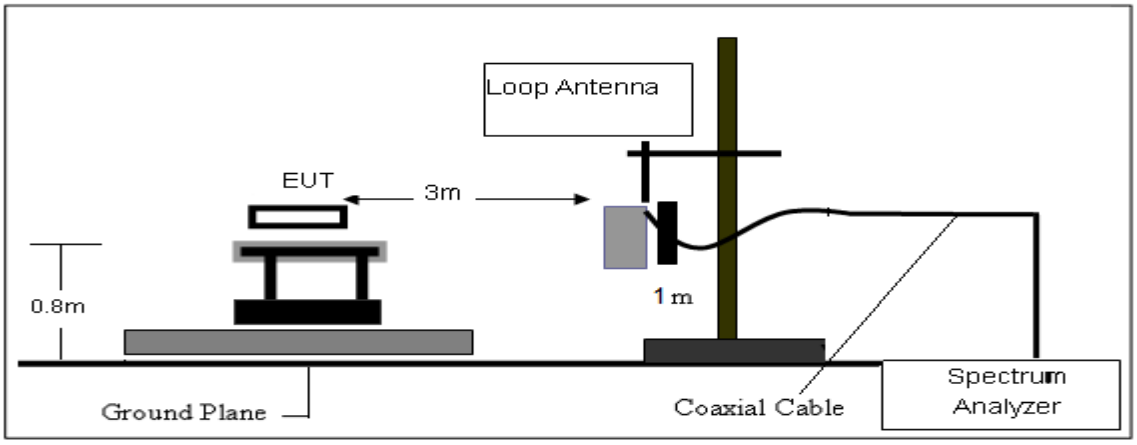
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

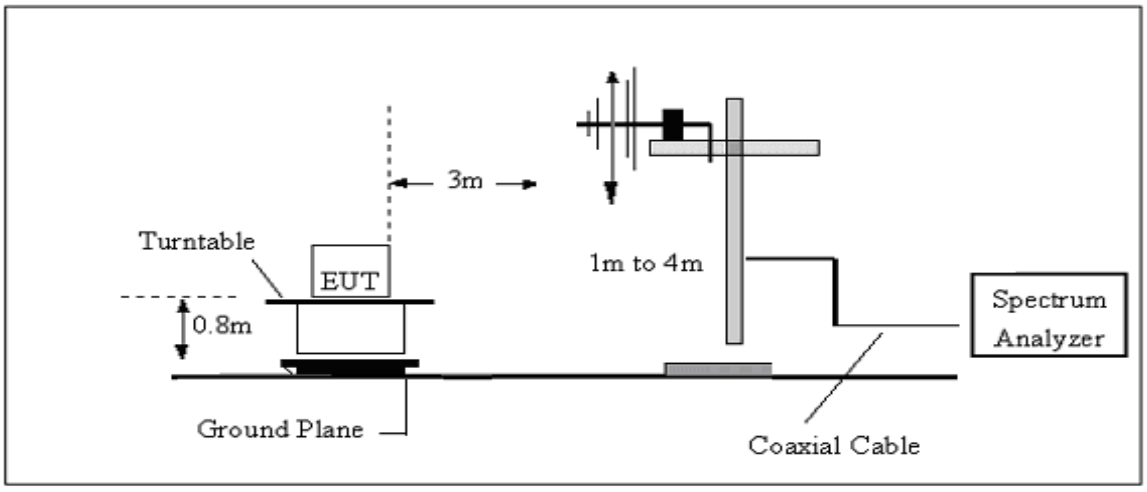
No deviation.

3.2.4 TESTSETUP

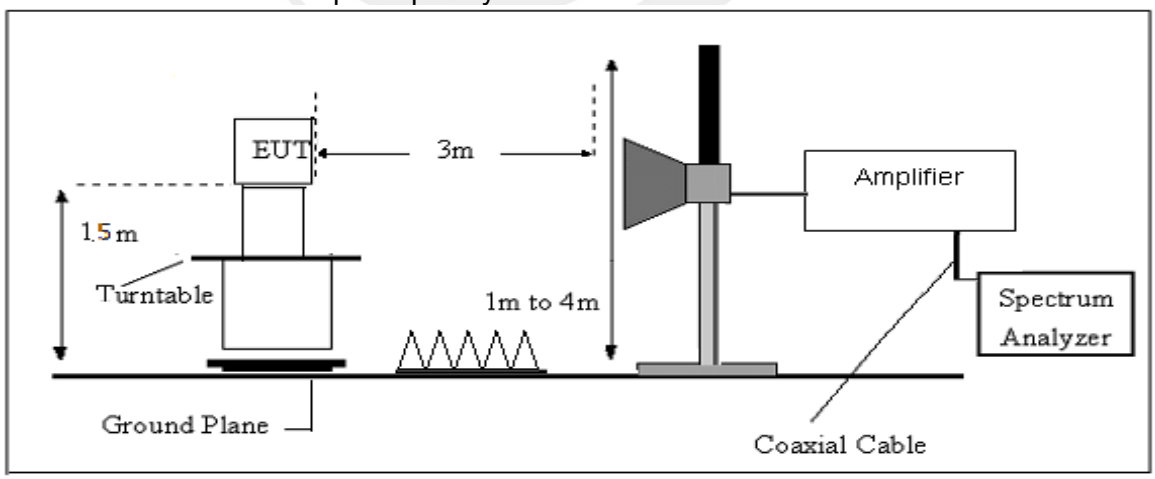
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

Please refer to section 2.3 of this report.

3.2.6 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

Factor=AF+CL-AG

3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3V	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	Test Result
(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 (specific distance/test distance)(dB);

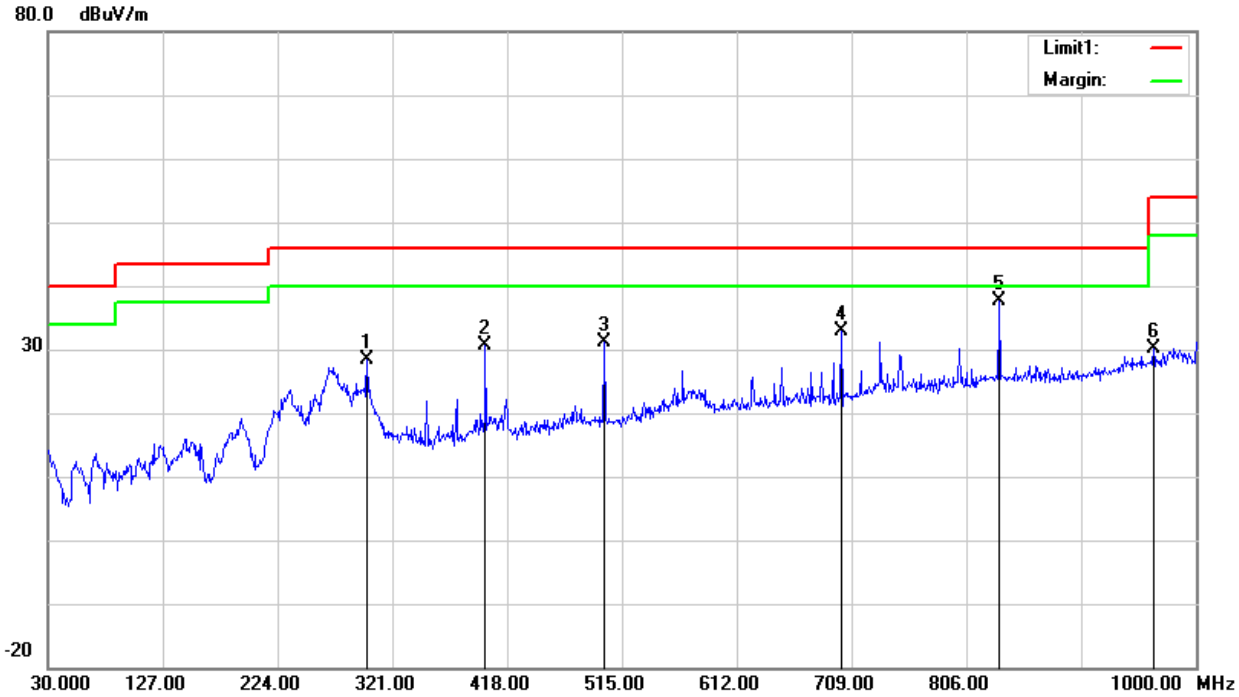
Limit line = specific limits (dBuv) + distance extrapolation factor.

(30MHz-1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3V	Phase:	Horizontal
Test Mode:	Mode 1/2/3(Mode 1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	299.6600	43.17	-14.82	28.35	46.00	-17.65	QP
2	399.5700	41.88	-11.16	30.72	46.00	-15.28	QP
3	500.4500	39.20	-8.01	31.19	46.00	-14.81	QP
4	700.2700	37.00	-4.16	32.84	46.00	-13.16	QP
5	834.1300	38.28	-0.59	37.69	46.00	-8.31	QP
6	964.1100	28.32	1.86	30.18	54.00	-23.82	QP

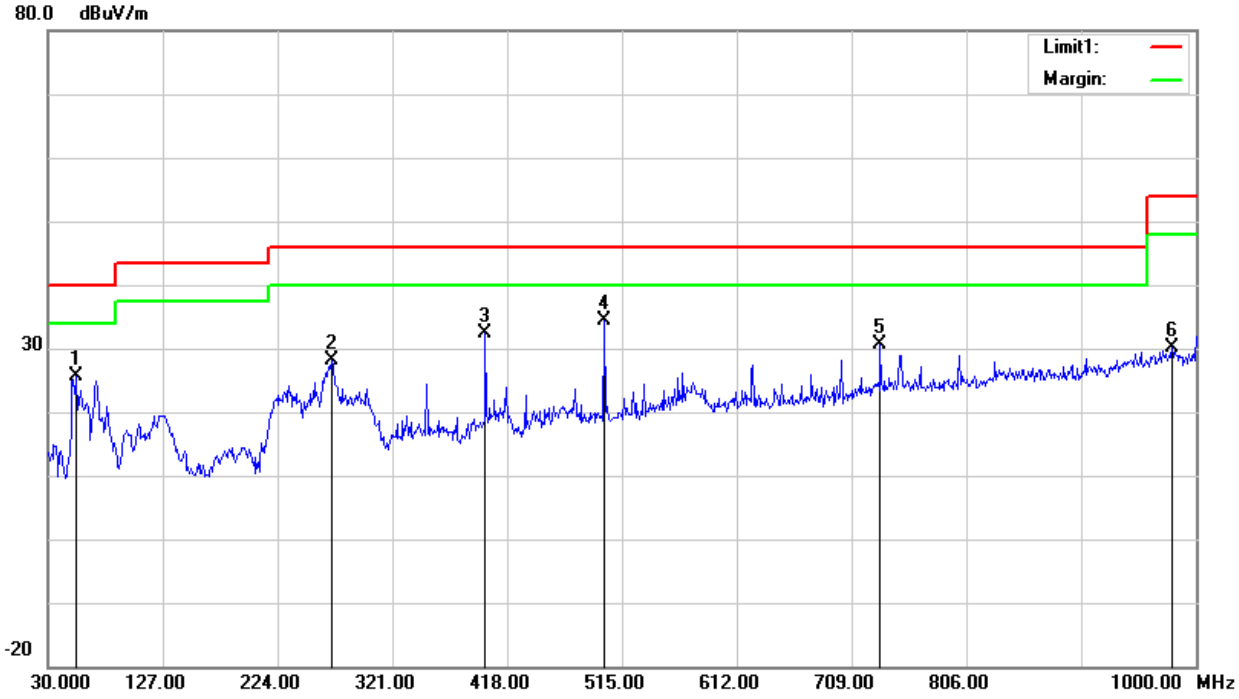
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3V	Phase:	Vertical
Test Mode:	Mode 1/2/3(Mode 1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	53.2800	50.00	-24.47	25.53	40.00	-14.47	QP
2	269.5900	43.30	-15.29	28.01	46.00	-17.99	QP
3	399.5700	43.50	-11.16	32.34	46.00	-13.66	QP
4	500.4500	42.47	-8.01	34.46	46.00	-11.54	QP
5	733.2500	33.08	-2.35	30.73	46.00	-15.27	QP
6	979.6300	27.55	2.65	30.20	54.00	-23.80	QP

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



(Above 1GHz) Spurious emission Requirements

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Orrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (204 MHz)										
1117.82	62.57	43.80	5.40	25.90	-12.50	50.07	74.00	-23.93	Pk	Vertical
1117.82	52.87	43.80	5.40	25.90	-12.50	40.37	54.00	-13.63	AV	Vertical
1118.01	63.05	43.80	5.40	25.90	-12.50	50.55	74.00	-23.45	Pk	Horizontal
1118.01	49.88	43.80	5.40	25.90	-12.50	37.38	54.00	-16.62	AV	Horizontal
1411.27	66.52	44.40	6.20	27.60	-10.60	55.92	74.00	-18.08	Pk	Vertical
1411.27	50.81	44.40	6.20	27.60	-10.60	40.21	54.00	-13.79	AV	Vertical
1411.28	64.69	44.40	6.20	27.60	-10.60	54.09	74.00	-19.91	Pk	Horizontal
1411.28	49.90	44.40	6.20	27.60	-10.60	39.30	54.00	-14.70	AV	Horizontal
1701.63	62.85	44.70	6.70	28.20	-9.80	53.05	74.00	-20.95	Pk	Vertical
1701.63	50.85	44.70	6.70	28.20	-9.80	41.05	54.00	-12.95	AV	Vertical
1701.61	62.42	44.70	6.70	28.20	-9.80	52.62	74.00	-21.38	Pk	Horizontal
1701.61	51.11	44.70	6.70	28.20	-9.80	41.31	54.00	-12.69	AV	Horizontal
2084.75	64.41	44.20	7.90	29.70	-6.60	57.81	74.00	-16.19	Pk	Vertical
2084.75	48.22	44.20	7.90	29.70	-6.60	41.62	54.00	-12.38	AV	Vertical
2084.72	67.60	44.20	7.90	29.70	-6.60	61.00	74.00	-13.00	Pk	Horizontal
2084.72	48.48	44.20	7.90	29.70	-6.60	41.88	54.00	-12.12	AV	Horizontal

Middle Channel (210 MHz)										
1390.46	63.60	43.80	5.40	25.90	-12.50	51.10	74.00	-22.90	Pk	Vertical
1390.46	53.17	43.80	5.40	25.90	-12.50	40.67	54.00	-13.33	AV	Vertical
1390.45	63.63	43.80	5.40	25.90	-12.50	51.13	74.00	-22.87	Pk	Horizontal
1390.45	50.01	43.80	5.40	25.90	-12.50	37.51	54.00	-16.49	AV	Horizontal
1778.71	66.55	44.40	6.20	27.60	-10.60	55.95	74.00	-18.05	Pk	Vertical
1778.71	50.74	44.40	6.20	27.60	-10.60	40.14	54.00	-13.86	AV	Vertical
1778.88	64.74	44.40	6.20	27.60	-10.60	54.14	74.00	-19.86	Pk	Horizontal
1778.88	51.07	44.40	6.20	27.60	-10.60	40.47	54.00	-13.53	AV	Horizontal
2116.63	62.95	44.70	6.70	28.20	-9.80	53.15	74.00	-20.85	Pk	Vertical
2116.63	50.82	44.70	6.70	28.20	-9.80	41.02	54.00	-12.98	AV	Vertical
2116.56	62.21	44.70	6.70	28.20	-9.80	52.41	74.00	-21.59	Pk	Horizontal
2116.56	50.64	44.70	6.70	28.20	-9.80	40.84	54.00	-13.16	AV	Horizontal
2592.93	65.63	44.20	7.90	29.70	-6.60	59.03	74.00	-14.97	Pk	Vertical
2592.93	48.55	44.20	7.90	29.70	-6.60	41.95	54.00	-12.05	AV	Vertical
2592.93	67.99	44.20	7.90	29.70	-6.60	61.39	74.00	-12.61	Pk	Horizontal
2592.93	48.86	44.20	7.90	29.70	-6.60	42.26	54.00	-11.74	AV	Horizontal
High Channel (215 MHz)										
1404.38	63.59	43.80	5.40	25.90	-12.50	51.09	74.00	-22.91	Pk	Vertical
1404.38	53.39	43.80	5.40	25.90	-12.50	40.89	54.00	-13.11	AV	Vertical
1404.55	62.68	43.80	5.40	25.90	-12.50	50.18	74.00	-23.82	Pk	Horizontal
1404.55	49.46	43.80	5.40	25.90	-12.50	36.96	54.00	-17.04	AV	Horizontal
1822.24	67.24	44.40	6.20	27.60	-10.60	56.64	74.00	-17.36	Pk	Vertical
1822.24	51.26	44.40	6.20	27.60	-10.60	40.66	54.00	-13.34	AV	Vertical
1822.29	65.18	44.40	6.20	27.60	-10.60	54.58	74.00	-19.42	Pk	Horizontal
1822.29	51.16	44.40	6.20	27.60	-10.60	40.56	54.00	-13.44	AV	Horizontal
2137.97	63.43	44.70	6.70	28.20	-9.80	53.63	74.00	-20.37	Pk	Vertical
2137.97	50.74	44.70	6.70	28.20	-9.80	40.94	54.00	-13.06	AV	Vertical
2138.01	62.18	44.70	6.70	28.20	-9.80	52.38	74.00	-21.62	Pk	Horizontal
2138.01	51.32	44.70	6.70	28.20	-9.80	41.52	54.00	-12.48	AV	Horizontal
2619.17	65.04	44.20	7.90	29.70	-6.60	58.44	74.00	-15.56	Pk	Vertical
2619.17	47.78	44.20	7.90	29.70	-6.60	41.18	54.00	-12.82	AV	Vertical
2619.29	67.20	44.20	7.90	29.70	-6.60	60.60	74.00	-13.40	Pk	Horizontal
2619.29	48.41	44.20	7.90	29.70	-6.60	41.81	54.00	-12.19	AV	Horizontal

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

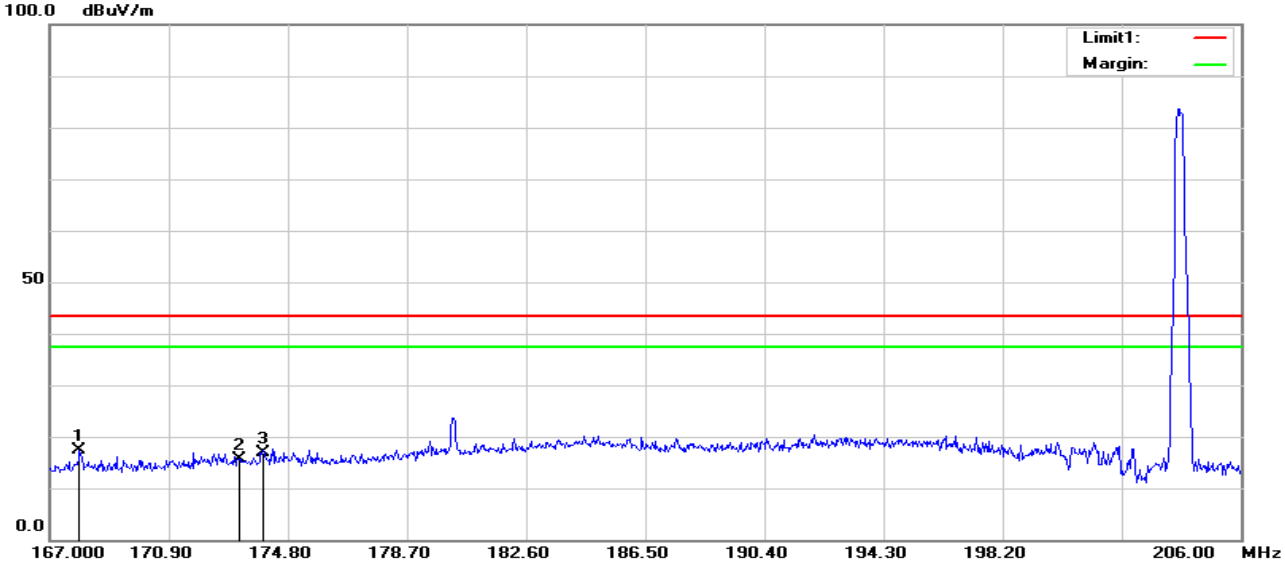
   Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Restricted band Requirements

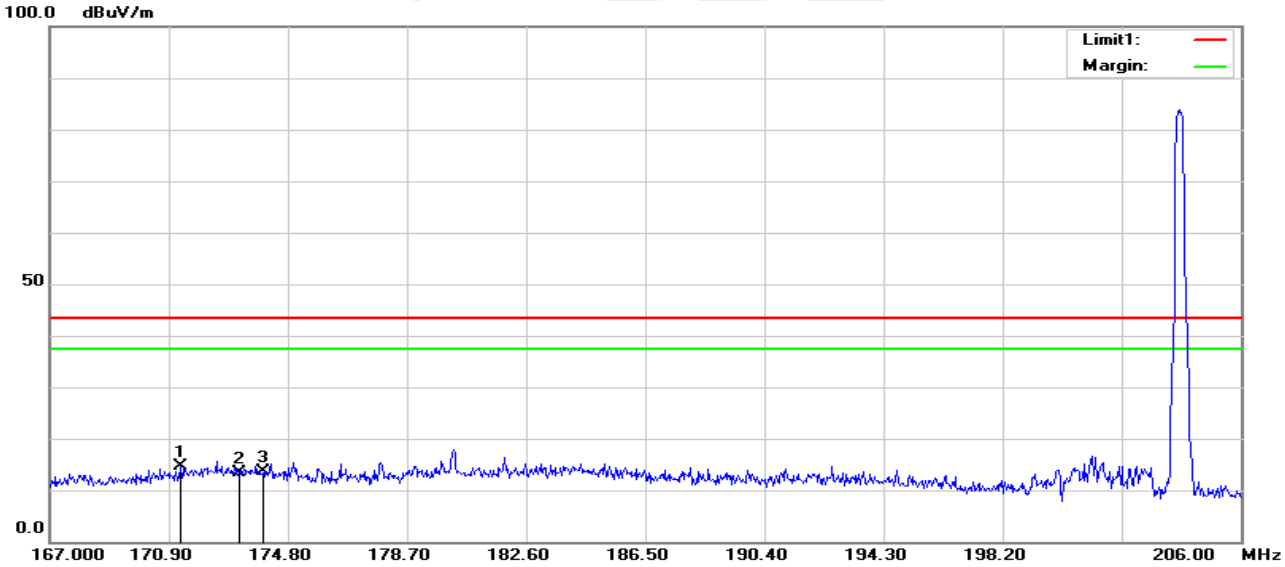
Low channel

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	167.9750	36.99	-19.60	17.39	43.50	-26.11	peak
2	173.2000	35.64	-19.95	15.69	43.50	-27.81	peak
3	174.0000	36.94	-20.00	16.94	43.50	-26.56	peak

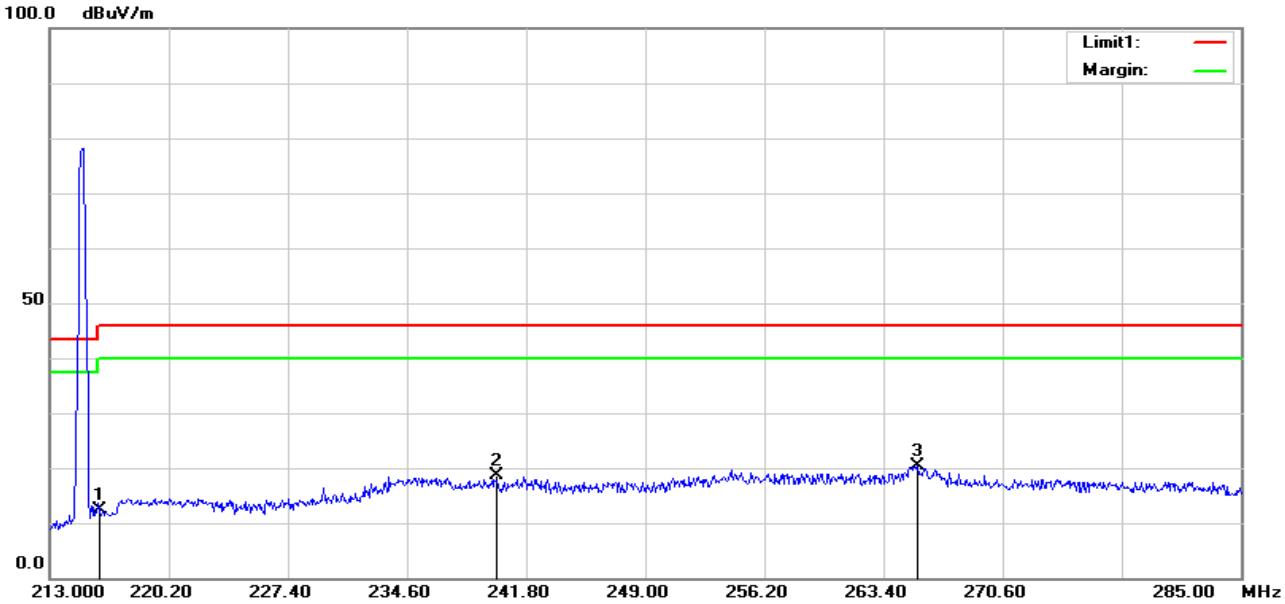
Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	171.2900	34.50	-19.85	14.65	43.50	-28.85	peak
2	173.2000	33.41	-19.95	13.46	43.50	-30.04	peak
3	174.0000	33.56	-20.00	13.56	43.50	-29.94	peak

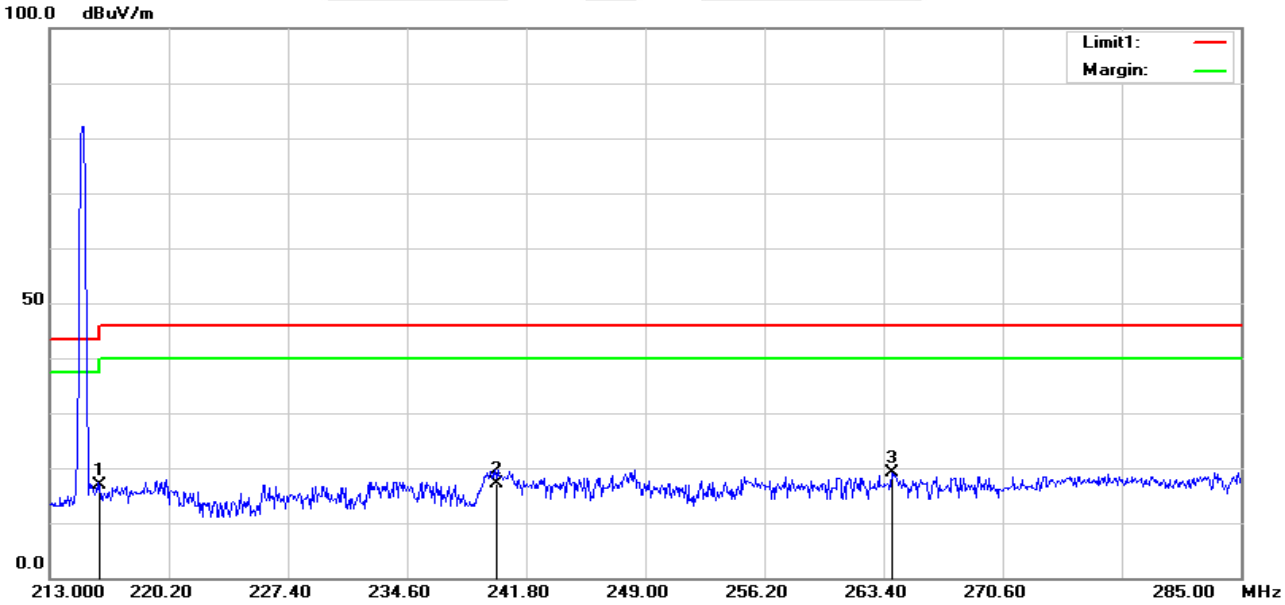
High channel

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	216.0000	32.49	-20.08	12.41	43.50	-31.09	peak
2	240.0000	36.55	-18.03	18.52	46.00	-27.48	peak
3	265.4880	35.22	-14.81	20.41	46.00	-25.59	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	216.0000	36.97	-20.08	16.89	43.50	-26.61	peak
2	240.0000	35.08	-18.03	17.05	46.00	-28.95	peak
3	263.9040	33.79	-14.75	19.04	46.00	-26.96	peak

4. Part 15.236 REQUIREMENTS

4.1 RADIATED SPURIOUS EMISSION

TEST LIMITS

According to Part 15.236 (g) and ETSI EN 300 422-1 V1.4.2 section 8.4.3, the limit will following below table.

Table 3: Limits for spurious emissions

State	Frequency		
	47 MHz to 74 MHz 87,5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other Frequencies below 1 000 MHz	Frequencies above 1 000 MHz
Operation	4 nW	250 nW	1 µW
Standby	2 nW	2 nW	20 nW

4.2 EMISSION MASK

TEST LIMITS

a. - According to Part 15.236 (g) and ETSI EN 300 422-1 V1.4.2 Clause 8.3.1.2,
The transmitter output spectrum shall be within the mask defined in figure 3 where B is the declared channel bandwidth

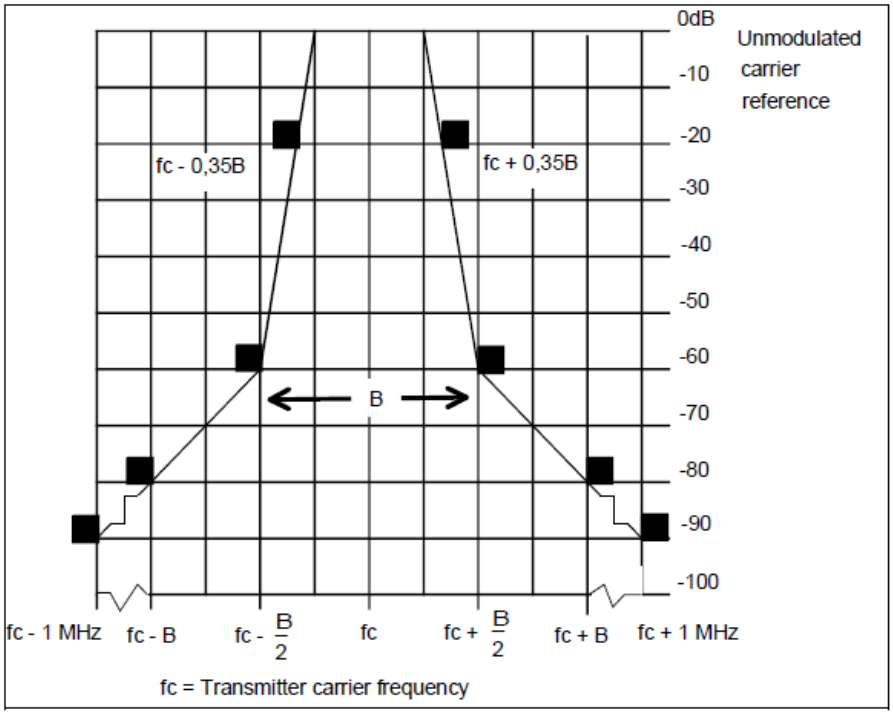


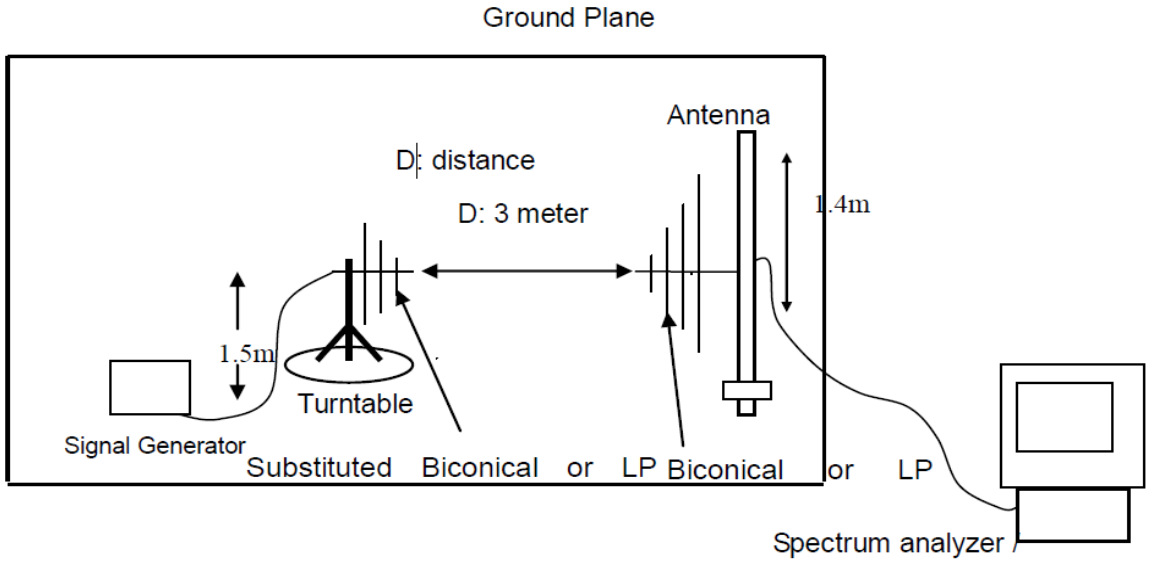
Figure 3: Spectrum mask for analogue systems in all bands

TEST PROCEDURE

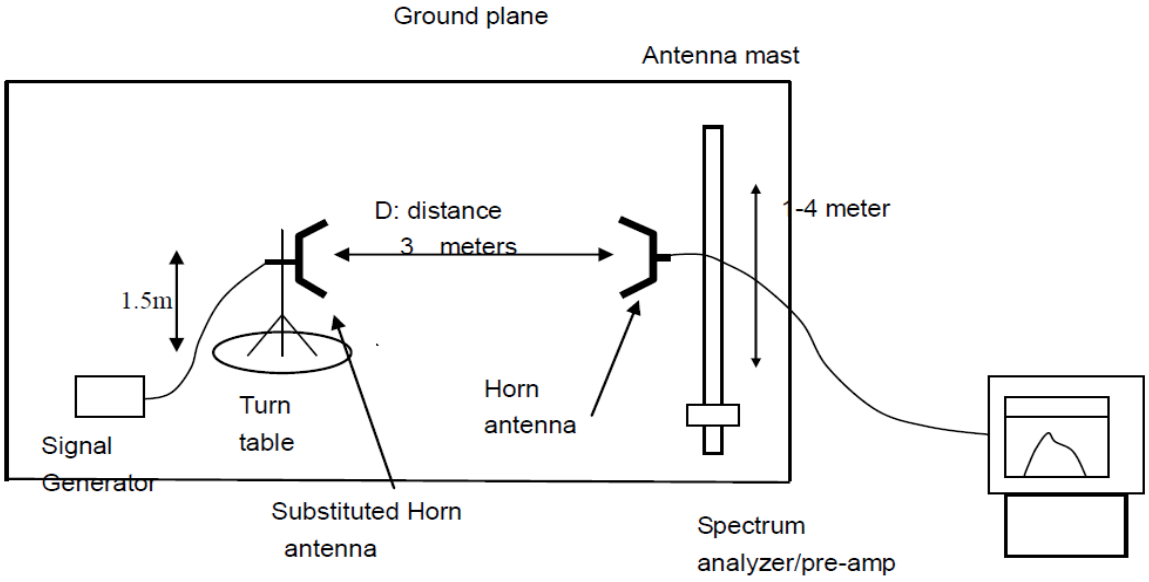
a. On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
b. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
c. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
d. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
e. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
f. The transmitter shall than be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
g The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
h The maximum signal level detected by the measuring receiver shall be noted.
i The measurement shall be repeated with the test antenna set to horizontal polarization.
j Replace the antenna with a proper Antenna (substitution antenna).
k The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
l The substitution antenna shall be connected to a calibrated signal generator.
m If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
n The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
o The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
p The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
q The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

TEST CONFIGURATION

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



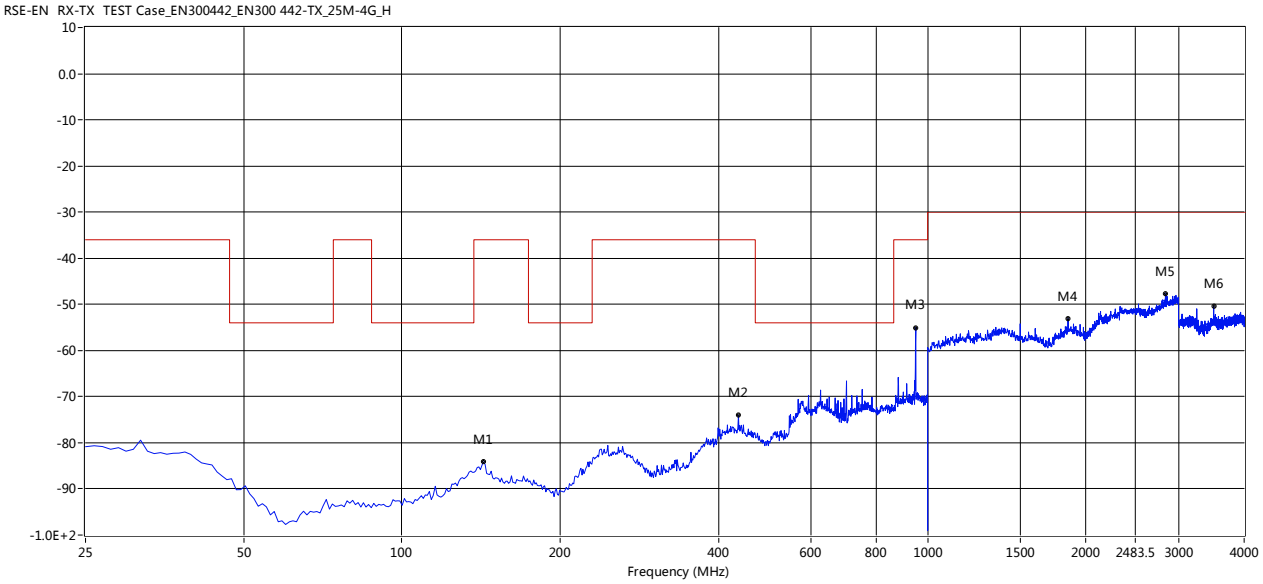
（B）Radiated Emission Test-Up Frequency Above 1GHz



TEST RESULTS

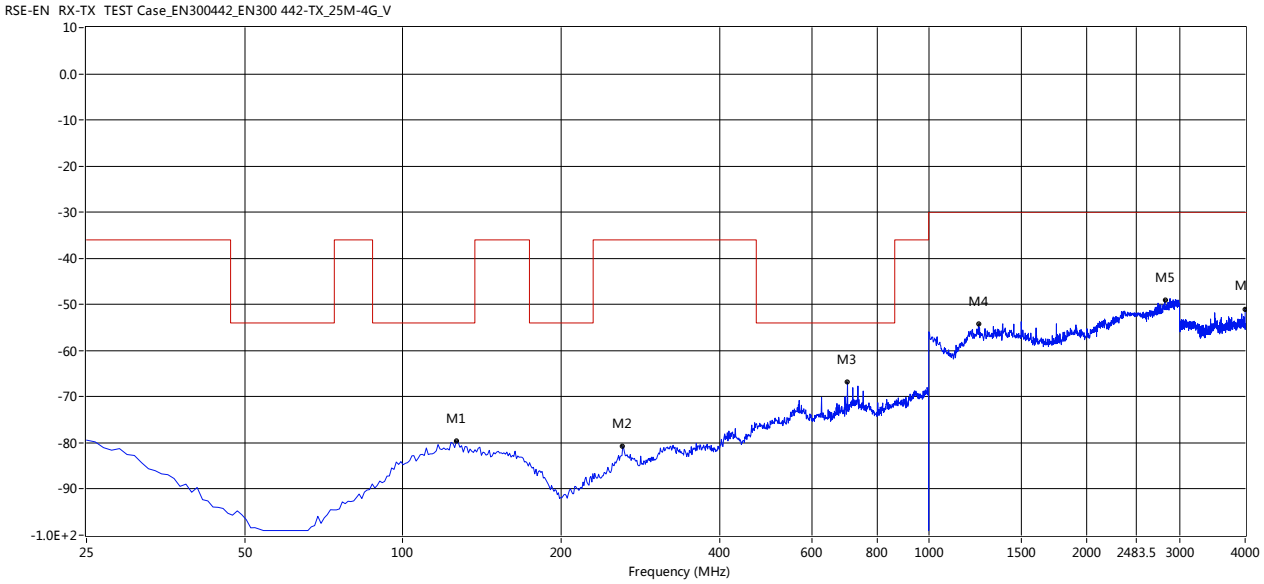
Radiated Spurious Emission:

Low channel
Horizontal



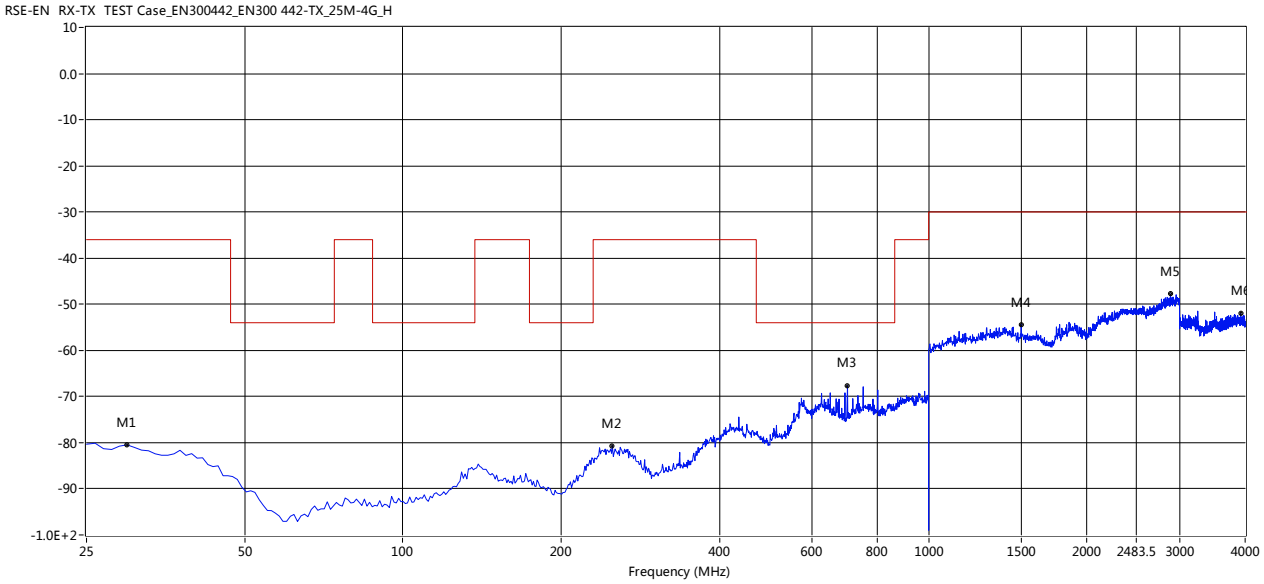
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
142.975	-84.16	-4.97	-36.0	-48.16	60.60	Horizontal	Vertical	Pass
436.450	-73.97	3.68	-36.0	-37.97	267.80	Horizontal	Vertical	Pass
949.300	-55.00	8.86	-36.0	-19.00	295.00	Horizontal	Vertical	Pass
1850.000	-53.05	14.46	-30.0	-23.05	227.60	Horizontal	Vertical	Pass
2836.000	-47.69	20.61	-30.0	-17.69	235.70	Horizontal	Vertical	Pass
3500.000	-50.34	3.78	-30.0	-20.34	334.20	Horizontal	Vertical	Pass

Vertical



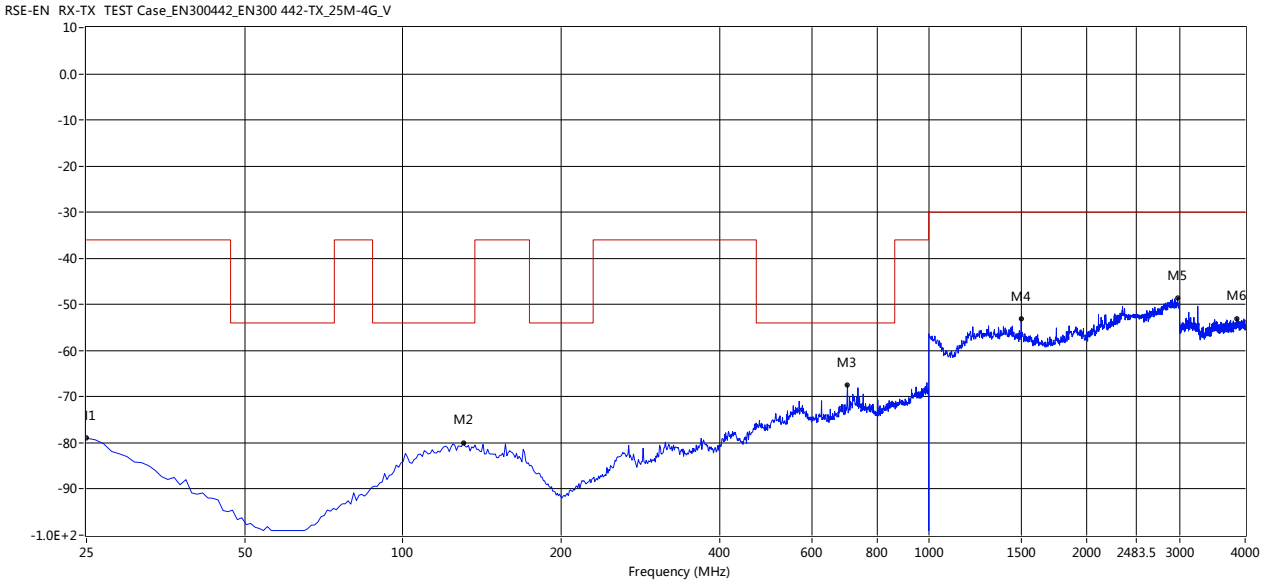
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
126.400	-79.62	-1.66	-54.0	-25.62	92.10	Vertical	Vertical	Pass
261.925	-80.78	-2.36	-36.0	-44.78	360.00	Vertical	Vertical	Pass
700.675	-66.89	6.82	-54.0	-12.89	331.60	Vertical	Vertical	Pass
1244.000	-54.30	13.49	-30.0	-24.30	340.70	Vertical	Vertical	Pass
2814.000	-49.10	19.63	-30.0	-19.10	88.40	Vertical	Vertical	Pass
4000.000	-50.98	3.16	-30.0	-20.98	73.00	Vertical	Vertical	Pass

Mid channel
Horizontal



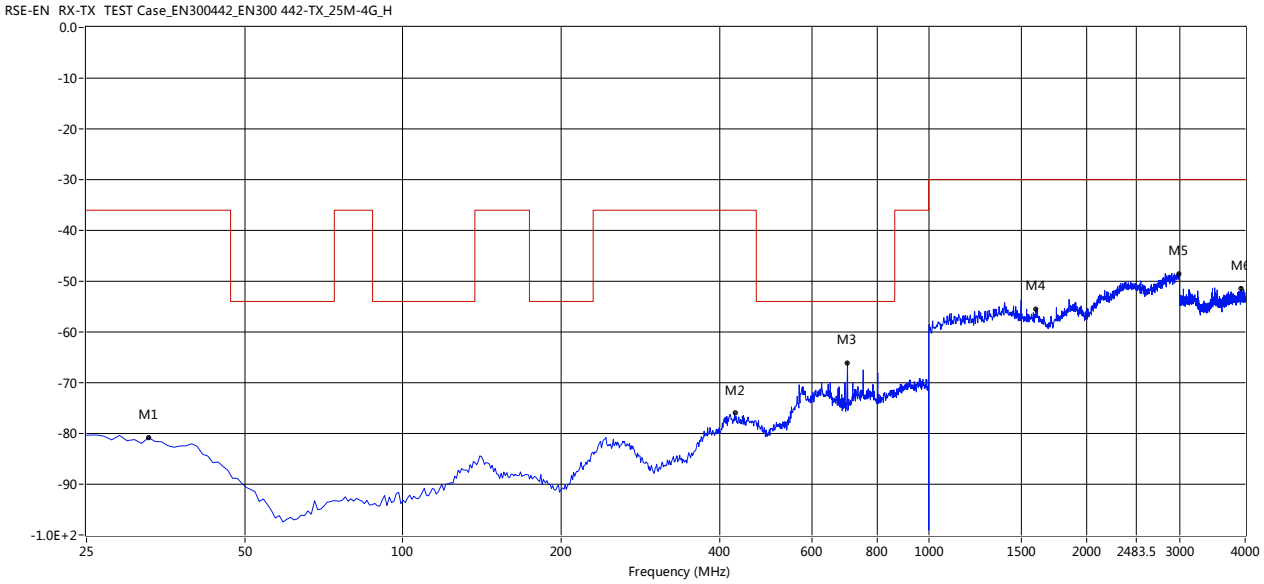
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
29.875	-80.47	-1.92	-36.0	-44.47	330.50	Horizontal	Vertical	Pass
250.225	-80.65	-1.16	-36.0	-44.65	341.00	Horizontal	Vertical	Pass
700.675	-67.58	5.01	-54.0	-13.58	73.50	Horizontal	Vertical	Pass
1500.000	-54.39	12.66	-30.0	-24.39	70.50	Horizontal	Vertical	Pass
2884.000	-47.74	20.66	-30.0	-17.74	0.80	Horizontal	Vertical	Pass
3922.000	-52.00	4.09	-30.0	-22.00	360.30	Horizontal	Vertical	Pass

Vertical



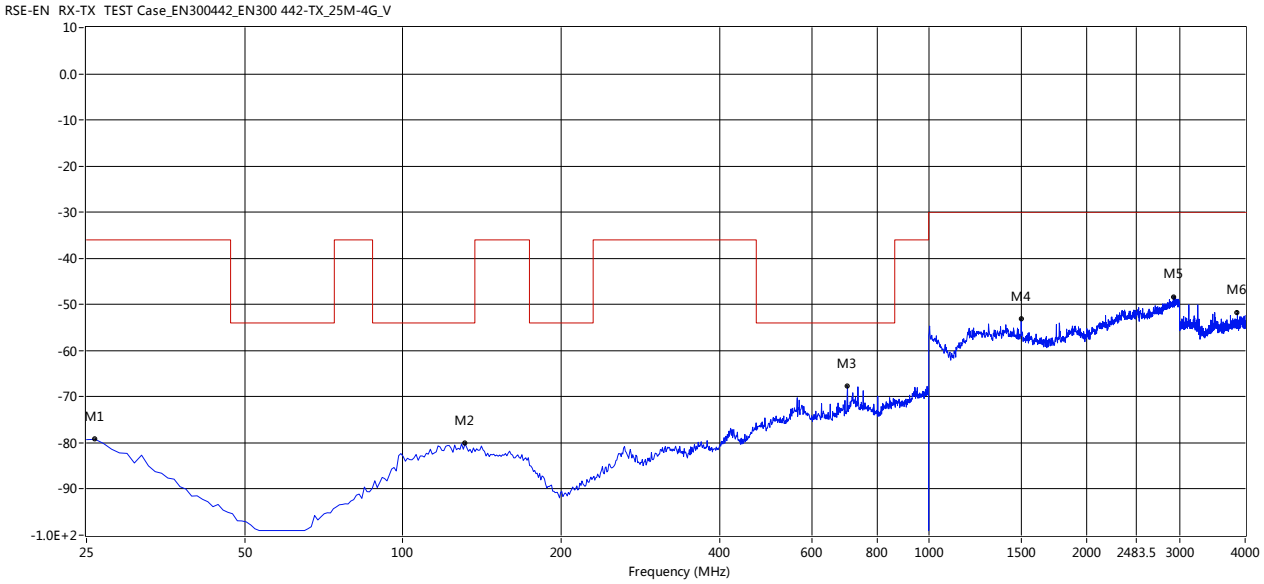
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
25.000	-78.97	-0.46	-36.0	-42.97	6.30	Vertical	Vertical	Pass
130.300	-79.93	-1.51	-54.0	-25.93	115.10	Vertical	Vertical	Pass
700.675	-67.42	6.82	-54.0	-13.42	268.50	Vertical	Vertical	Pass
1500.000	-53.13	12.96	-30.0	-23.13	25.10	Vertical	Vertical	Pass
2976.000	-48.54	20.36	-30.0	-18.54	254.60	Vertical	Vertical	Pass
3852.000	-53.02	3.03	-30.0	-23.02	1.40	Vertical	Vertical	Pass

High channel
Horizontal



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
32.800	-80.81	-1.89	-36.0	-44.81	32.80	Horizontal	Vertical	Pass
427.675	-76.00	3.17	-36.0	-40.00	22.00	Horizontal	Vertical	Pass
700.675	-66.04	5.01	-54.0	-12.04	69.80	Horizontal	Vertical	Pass
1600.000	-55.61	13.00	-30.0	-25.61	343.50	Horizontal	Vertical	Pass
2996.000	-48.62	21.23	-30.0	-18.62	284.90	Horizontal	Vertical	Pass
3929.000	-51.49	4.09	-30.0	-21.49	42.20	Horizontal	Vertical	Pass

Vertical



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
25.975	-79.21	-1.09	-36.0	-43.21	120.80	Vertical	Vertical	Pass
131.275	-80.13	-1.47	-54.0	-26.13	38.70	Vertical	Vertical	Pass
700.675	-67.70	6.82	-54.0	-13.70	324.70	Vertical	Vertical	Pass
1500.000	-53.18	12.96	-30.0	-23.18	32.50	Vertical	Vertical	Pass
2922.000	-48.28	20.29	-30.0	-18.28	151.90	Vertical	Vertical	Pass
3866.000	-51.69	3.07	-30.0	-21.69	281.50	Vertical	Vertical	Pass

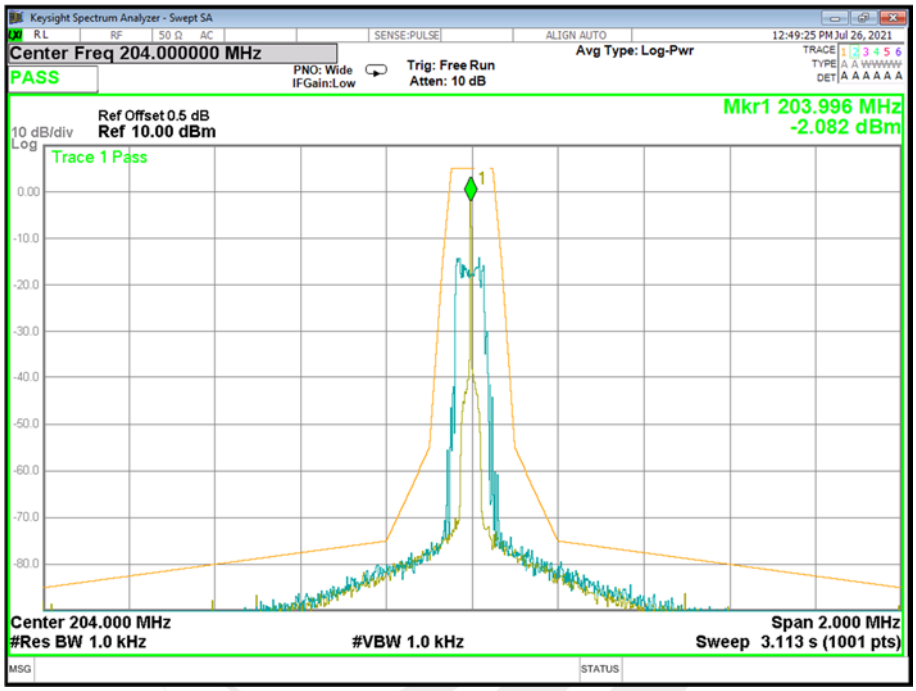
Emission Mask

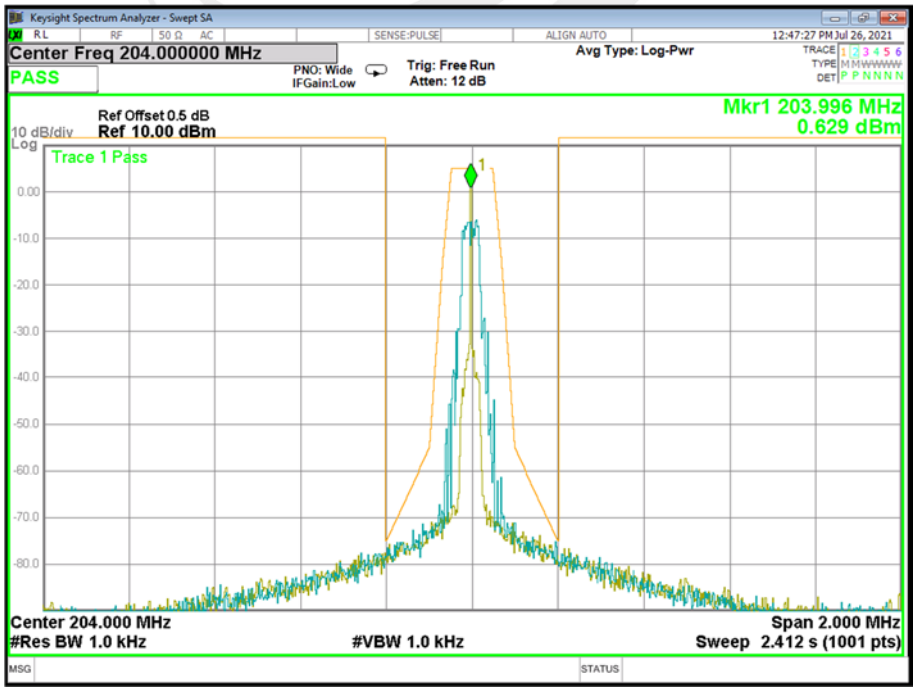
ETSI EN 300 422-1 V1.4.2 Clause 8.3.1.2 The Maximum Measurement of Necessary Bandwidth

Test Plot:

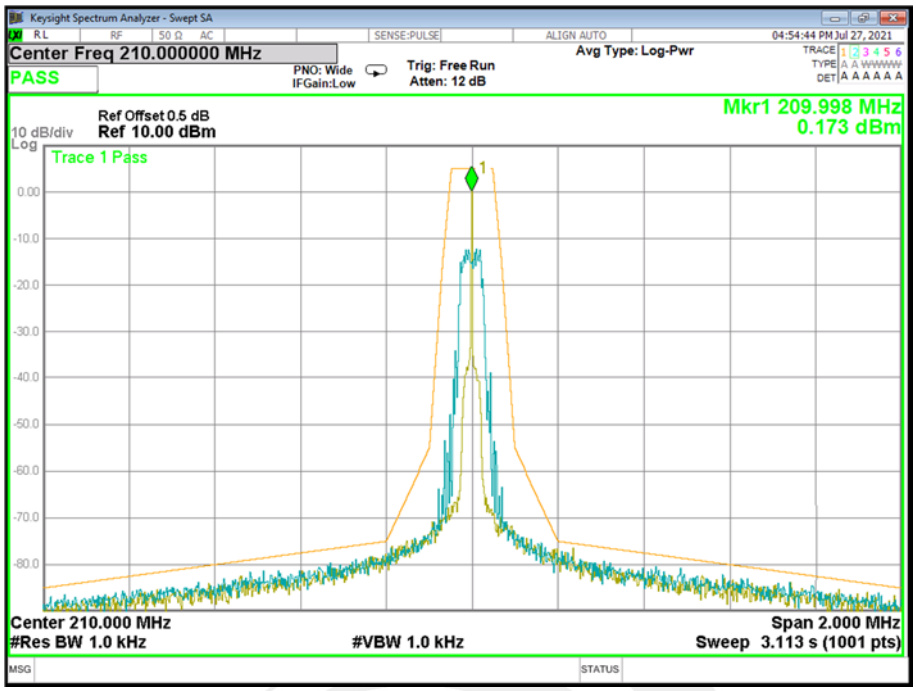
Frequency	Declared Bandwidth	B/2	0.35B
204 MHz	100K	50K	35K
210 MHz	100K	50K	35K
215 MHz	100K	50K	35K

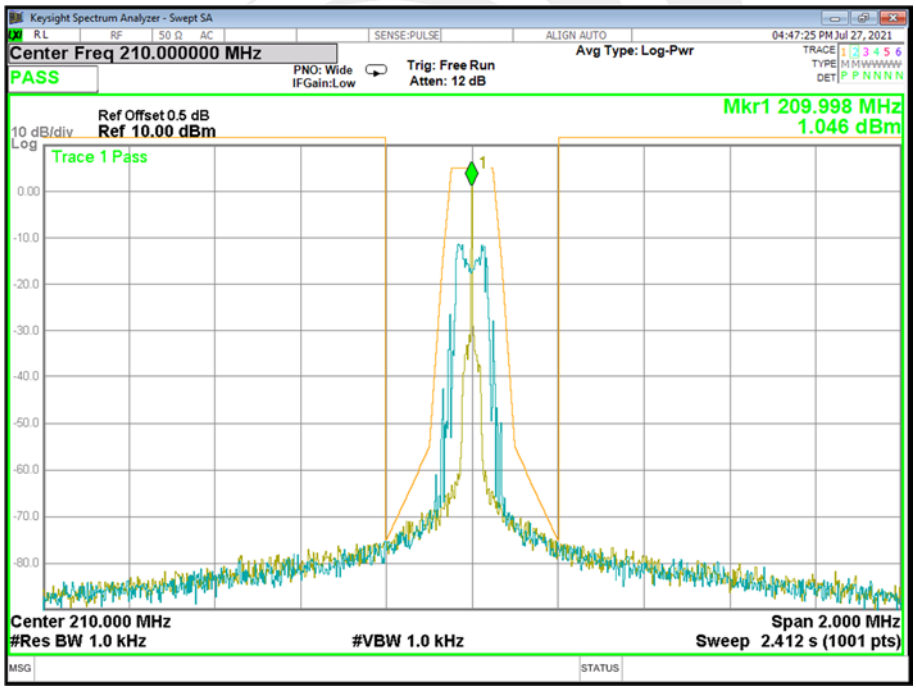
Low CH



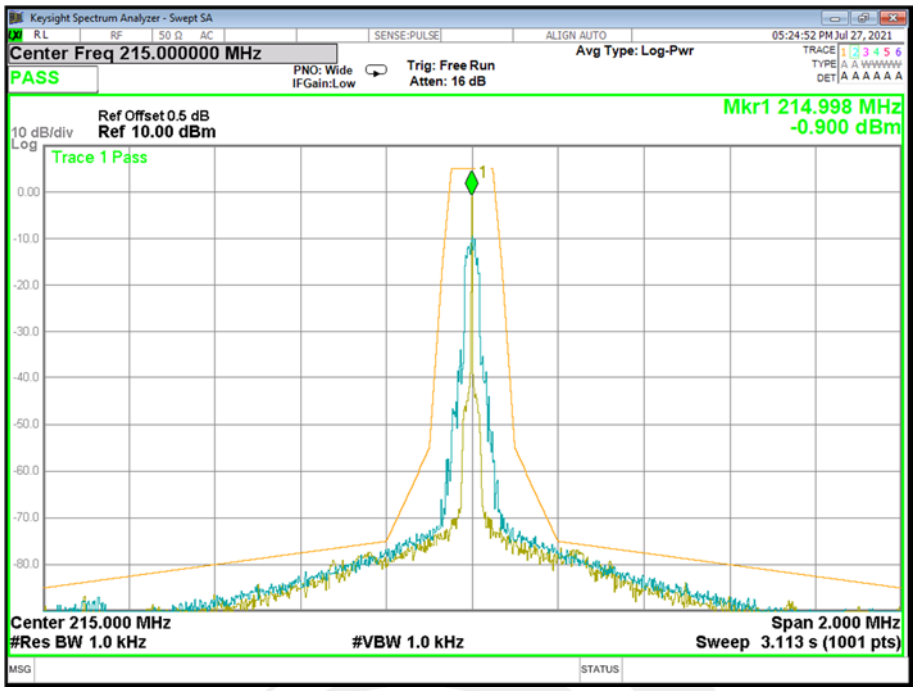


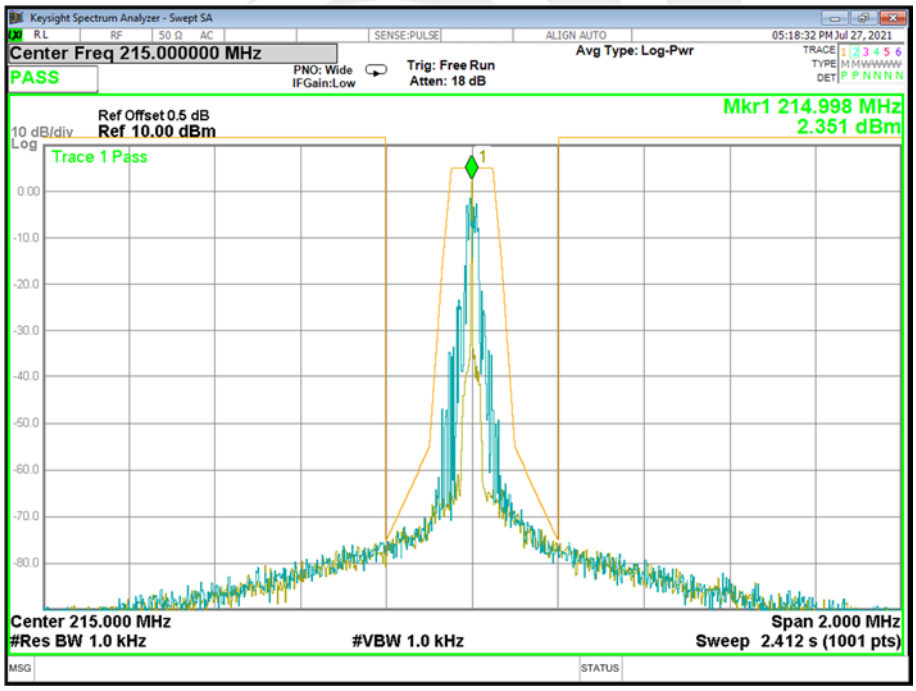
Mid CH


Keysight Spectrum Analyzer - Swept SA
Center Freq 210.000000 MHz
PASS
PNO: Wide
IFGain:Low
Trig: Free Run
Atten: 12 dB
Avg Type: Log-Pwr
04:54:44 PM Jul 27, 2021
Ref Offset 0.5 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 209.998 MHz
0.173 dBm
Trace 1 Pass
Center 210.000 MHz
#Res BW 1.0 kHz
#VBW 1.0 kHz
Span 2.000 MHz
Sweep 3.113 s (1001 pts)


Keysight Spectrum Analyzer - Swept SA
Center Freq 210.000000 MHz
PASS
PNO: Wide
IFGain:Low
Trig: Free Run
Atten: 12 dB
Avg Type: Log-Pwr
04:47:25 PM Jul 27, 2021
Ref Offset 0.5 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 209.998 MHz
1.046 dBm
Trace 1 Pass
Center 210.000 MHz
#Res BW 1.0 kHz
#VBW 1.0 kHz
Span 2.000 MHz
Sweep 2.412 s (1001 pts)

High CH


Keysight Spectrum Analyzer - Swept SA
Center Freq 215.000000 MHz
PASS
PNO: Wide
IFGain:Low
Trig: Free Run
Atten: 16 dB
Avg Type: Log-Pwr
05:24:52 PM Jul 27, 2021
Ref Offset 0.5 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 214.998 MHz
-0.900 dBm
Trace 1 Pass
Center 215.000 MHz
#Res BW 1.0 kHz
#VBW 1.0 kHz
Span 2.000 MHz
Sweep 3.113 s (1001 pts)

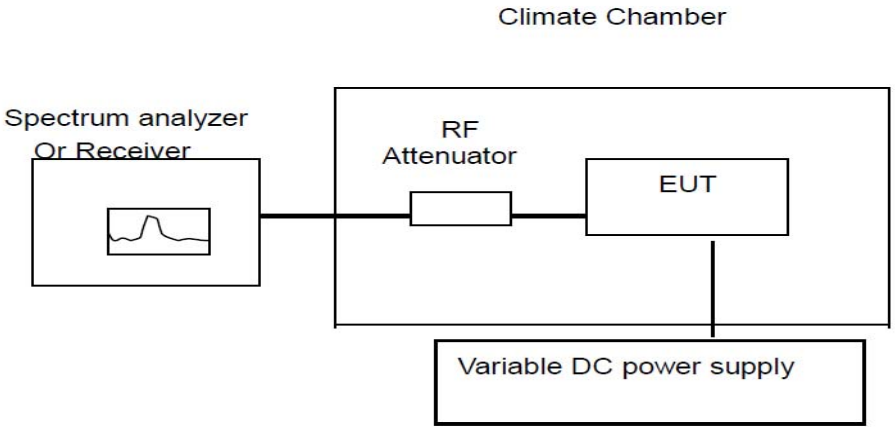

Keysight Spectrum Analyzer - Swept SA
Center Freq 215.000000 MHz
PASS
PNO: Wide
IFGain:Low
Trig: Free Run
Atten: 18 dB
Avg Type: Log-Pwr
05:18:32 PM Jul 27, 2021
Ref Offset 0.5 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 214.998 MHz
2.351 dBm
Trace 1 Pass
Center 215.000 MHz
#Res BW 1.0 kHz
#VBW 1.0 kHz
Span 2.000 MHz
Sweep 2.412 s (1001 pts)

4.3 FREQUENCY STABILITY VS. TEMPERATURE & VOLTAGE

TEST LIMIT

According to Part 15.236 (f)(3), the frequency tolerance of the carrier signal shall be maintained within ±0.005% of the operating frequency over a temperature variation of −20 degrees to +50 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. Battery operated equipment shall be tested using a new battery.

TEST CONFIGURATION



TEST PROCEDURE

a The EUT was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and the RF output cable, exited the chamber through an opening made for that purpose.
After the temperature stabilized the frequency output was recorded form the counter.
An external variable DC power supply was connected to the battery terminals of the equipment under test.

b. For hand carried, battery powered equipment primary supply voltage was reduced to the battery operating end point as specified by the manufacturer. The output frequency was recorded for each battery voltage.

TEST RESULTS

(1) Frequency stability versus input voltage (Supply Nominal voltage is DC 1.5*2V)

(2) Frequency stability versus input voltage (Supply battery operating end point which shall be specified by the manufacturer DC 3.45V)

Reference Frequency: 204MHz					
Power Supply	Environment Temperature (ºC)	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Results
3.45	20	3709	0.0018	±0.005	PASS
3.00	20	3711	0.0018		
2.55	20	3709	0.0018		
BEP	20	3709	0.0018		

Reference Frequency: 204MHz				
Environment Temperature(ºC)	Frequency Deviation measured with time Elapse(30 minutes)			
	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Results
50	3704	0.0018	±0.005	PASS
40	3711	0.0018		
30	3708	0.0018		
20	3704	0.0018		
10	3705	0.0018		
0	3708	0.0018		
-10	3710	0.0018		
-20	3702	0.0018		

Reference Frequency: 210MHz					
Power Supply	Environment Temperature (ºC)	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Results
3.45	20	2036	0.0010	±0.005	PASS
3.00	20	2039	0.0010		
2.55	20	2031	0.0010		
BEP	20	2040	0.0010		

Reference Frequency: 210MHz				
Environment Temperature(ºC)	Frequency Deviation measured with time Elapse(30 minutes)			
	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Results
50	2040	0.0010	±0.005	PASS
40	2042	0.0010		
30	2037	0.0010		
20	2035	0.0010		
10	2030	0.0010		
0	2039	0.0010		
-10	2043	0.0010		
-20	2039	0.0010		

Reference Frequency: 215MHz					
Power Supply	Environment Temperature (ºC)	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Results
3.45	20	1872	0.0009	±0.005	PASS
3.00	20	1872	0.0009		
2.55	20	1873	0.0009		
BEP	20	1868	0.0009		

Reference Frequency: 215MHz				
Environment Temperature(ºC)	Frequency Deviation measured with time Elapse(30 minutes)			
	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Results
50	1873	0.0009	±0.005	PASS
40	1876	0.0009		
30	1874	0.0009		
20	1881	0.0009		
10	1878	0.0009		
0	1874	0.0009		
-10	1876	0.0009		
-20	1875	0.0009		

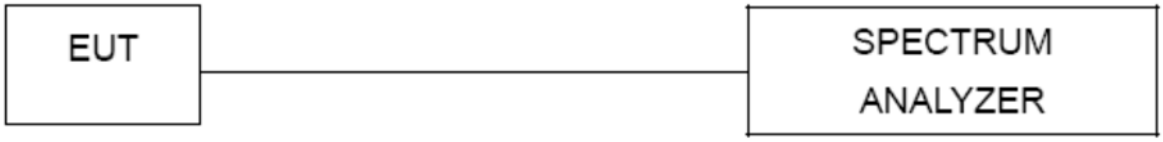
4.4 OCCUPIED BANDWIDTH

TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting : RBW= 3KHz, VBW≧RBW, Sweep time = Auto.

TEST CONFIGURATION



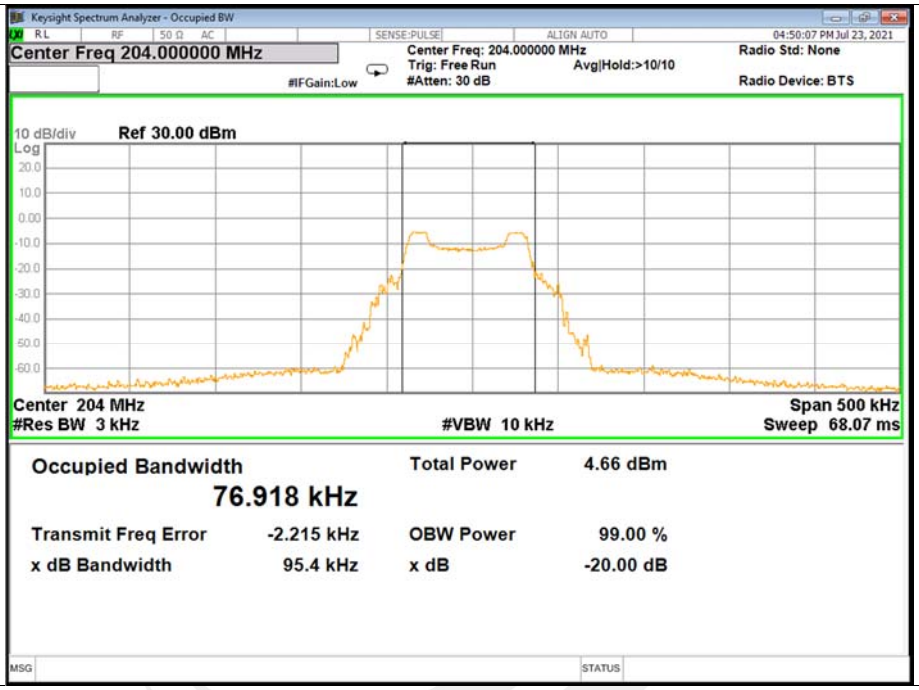
EUT OPERATION CONDITIONS

TX mode.

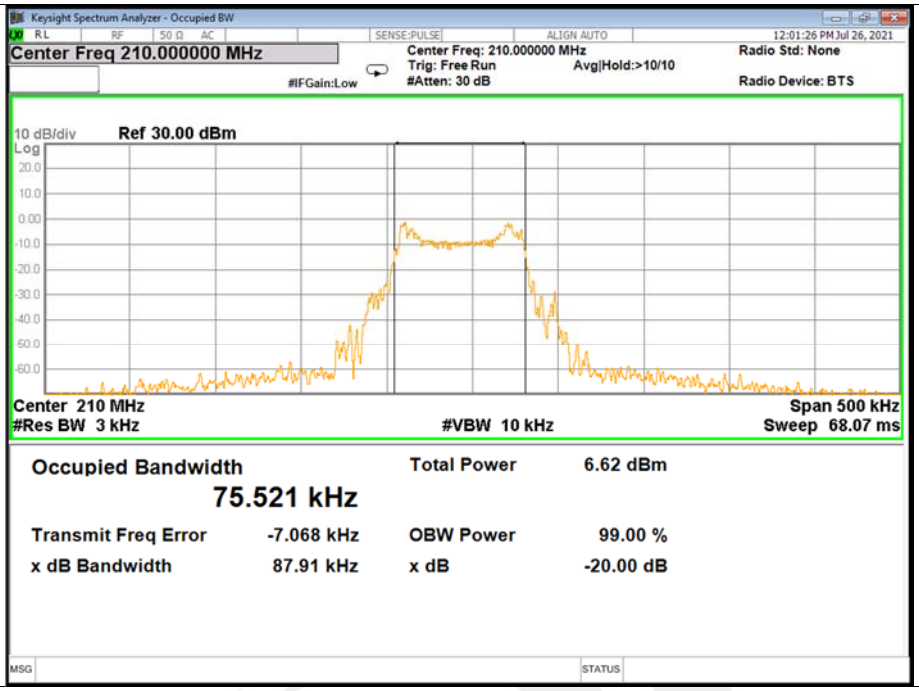
TEST RESULT

Frequency(MHz)	20 dB Bandwidth(KHz)	Result
204	95.4	Pass
210	87.91	Pass
215	90.6	Pass

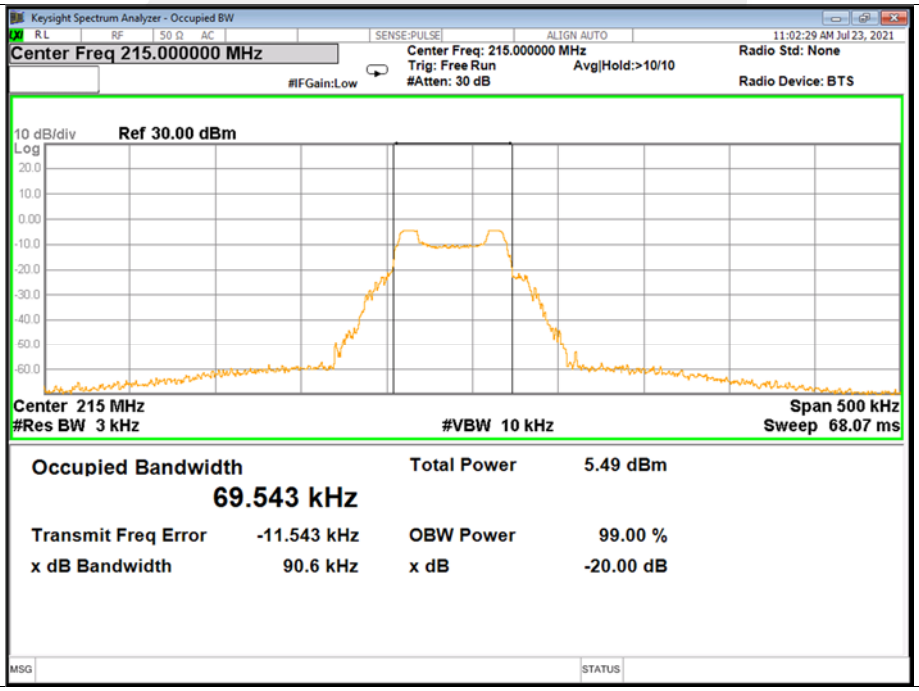
GFSK Occupied bandwidth of Low Channel (Maximum)



GFSK Occupied bandwidth of Mid Channel (Maximum)



GFSK Occupied bandwidth of High Channel (Maximum)

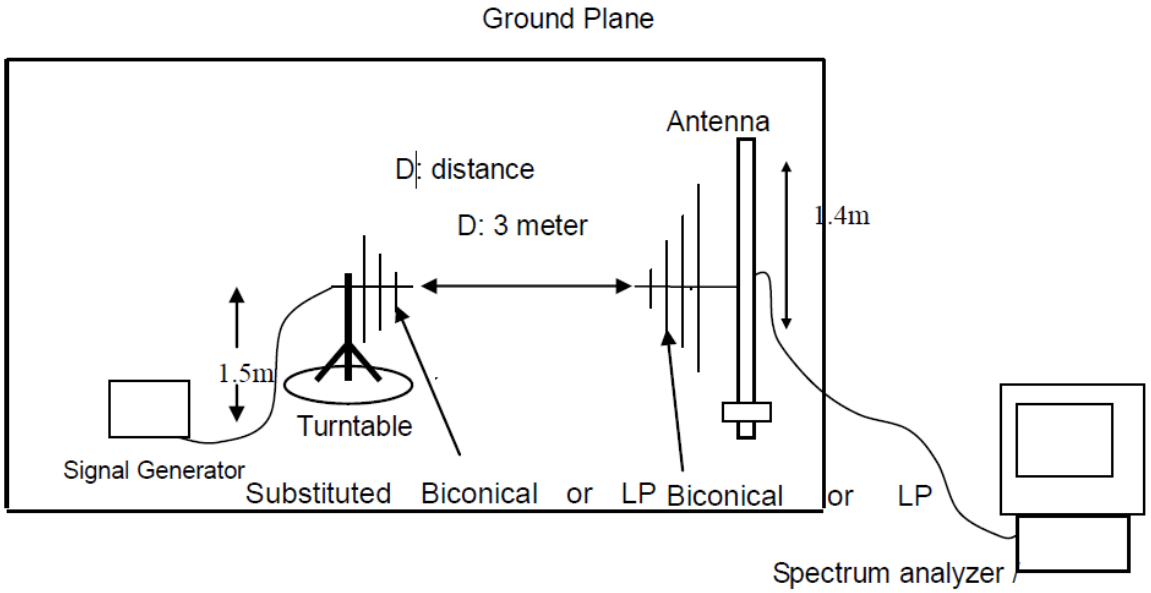


4.5 RADIATED POWER

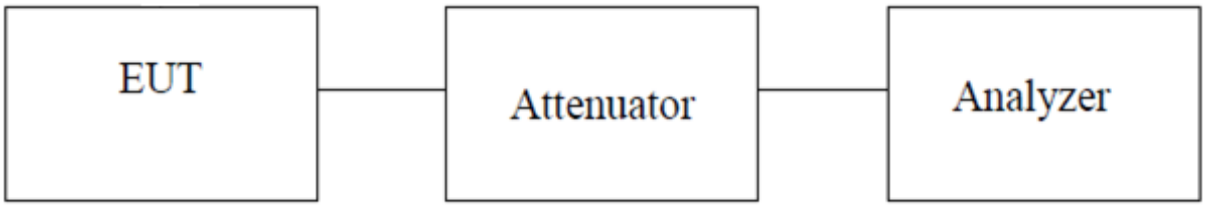
TEST LIMIT

According to Part 15.236(d), the maximum radiated power shall not exceed the following:
(1) In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP
(2) In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP.

TEST CONFIGURATION



Conduction



TEST PROCEDURE

a. On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
b. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
c. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
d. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
e. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
f. The transmitter shall than be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
g The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
h The maximum signal level detected by the measuring receiver shall be noted.
i The measurement shall be repeated with the test antenna set to horizontal polarization.

j Replace the antenna with a proper Antenna (substitution antenna).

k The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.

l The substitution antenna shall be connected to a calibrated signal generator.

m If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.

n The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.

o The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.

p The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

q The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

TEST PROCEDURE (Conduction)

a. The RF output of the transceiver was connected to the input of the spectrum analyzer through sufficient attenuation.

b. Set the RBW >20BW,VBW>3xRBW.

c. Detector = peak.

d Sweep time = auto couple.

e Trace mode = max hold.

f Allow trace to fully stabilize.

g Use the peak marker function to determine the maximum amplitude level.

TEST RESULT

Maximum Equivalent Isotropically Radiated Power								
Ambient temperature: 22 °C			Relative humidity: 55%					
Frequency (MHz)	S.G.Lev (dBm)	Ant (dBi)	Loss (dB)	EIRP (dBm)	EIRP (mW)	Limit (mW)	Polarity	Result
204.00	1.88	5.80	0.8	6.88	4.88	50.00	H	Pass
204.00	0.62	5.80	0.8	5.62	3.65	50.00	V	Pass

Maximum Equivalent Isotropically Radiated Power								
Ambient temperature: 22 °C			Relative humidity: 55%					
Frequency (MHz)	S.G.Lev (dBm)	Ant (dBi)	Loss (dB)	EIRP (dBm)	EIRP (mW)	Limit (mW)	Polarity	Result
210.00	2.27	5.80	0.8	7.27	5.33	50.00	H	Pass
210.00	1.33	5.80	0.8	6.33	4.30	50.00	V	Pass

Maximum Equivalent Isotropically Radiated Power								
Ambient temperature: 22 °C			Relative humidity: 55%					
Frequency (MHz)	S.G.Lev (dBm)	Ant (dBi)	Loss (dB)	EIRP (dBm)	EIRP (mW)	Limit (mW)	Polarity	Result
215.00	2.20	5.80	0.8	7.20	5.25	50.00	H	Pass
215.00	1.48	5.80	0.8	6.48	4.45	50.00	V	Pass

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※※※※※