



FCC Test Report

Report No: FCS202508412W01

Issued for

Applicant:	Enping Kyle Audio Equipment Factory
Address:	4th Floor, Building 1, Building 2, Jiangnan 10th Street, Dong'an Town, Enping City
Product Name:	Wireless monitoring system
Brand Name:	N/A
Model Name:	AR9
Series Model:	AR2, AR6, AR8, AR10, AR12, A9, A10, A11, A12, A16, A18, A20, A22, T1, T2, T4, T6, T8, T9, T10, TR2, TR4, TR6, TR8, TR9, TR10, TR120, TR12, TR16
FCC ID:	2BC2N-AR9
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.fcs-lab.com	

TEST RESULT CERTIFICATION

Applicant's Name..... : Enping Kyle Audio Equipment Factory

Address..... : 4th Floor, Building 1, Building 2, Jiangnan 10th Street, Dong'an Town, Enping City

Manufacture's Name..... : Enping Kyle Audio Equipment Factory

Address..... : 4th Floor, Building 1, Building 2, Jiangnan 10th Street, Dong'an Town, Enping City

Product Description

Product Name..... : Wireless monitoring system

Brand Name : N/A

Model Name..... : AR9

Series Model..... : See the first page of the report

Test Standards..... : FCC Rules and Regulations Part 15 Subpart C section 15.236

Test Procedure..... : ANSI C63.10:2013

This device described above has been tested FCS, 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 (s) of performance of tests. : Aug 22, 2025 ~ Sep 09, 2025

Date of Issue..... : Sep 09, 2025

Test Result..... : Pass

Tested by

:

Mike Tan

(Mike Tan)

Reviewed by

:

Nels wang

(Nels Wang)

Approved by

:

Jack Wang

(Jack Wang)

Table of Contents

	Page
1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
2.4 EQUIPMENTS LIST	12
3. CONDUCTED EMISSION MEASUREMENT	13
3.2 TEST PROCEDURE	13
3.3 TEST SETUP	14
3.4 TEST RESULTS	15
4 MAXIMUM RADIATED POWER	17
4.1 LIMIT	17
4.2 TEST PROCEDURE	17
3.3 TEST SETUP	17
4.4 TEST RESULTS	17
5. OCCUPIED BANDWIDTH	18
5.1 LIMIT	18
5.2 TEST PROCEDURE	18
5.3 TEST SETUP	18
5.4 TEST RESULTS	19
6.NECESSARY BANDWITH	20
6.1 LIMIT	20
6.2 TEST PROCEDURE	20
6.3 TEST SETUP	20
6.4 TEST RESULT	21
7. TRANSMITTER UNWANTED EMISSIONS	22
7.1 LIMIT	22
7.2 TEST PROCEDURE	22
7.3 TEST SETUP	22

Table of Contents

	Page
7.4 TEST RESULTS	24
8. FREQUENCY STABILITY	31
8.1 LIMIT	31
8.2 TEST PROCEDURE	31
8.3 TEST SETUP	31
8.4 TEST RESULTS	32

Revision History

Rev.	Issue Date	Effect Page	Contents
00	Aug 03, 2025	N/A	Initial Issue

1. SUMMARY OF TEST RESULTS

FCC Part 15 Subpart C section 15.236			
Standard Section	Test Item	Judgment	Remark
FCC Part 15.236(d)	Maximum Radiated Power	PASS	--
FCC Part 15.236(f)(1)	Occupied Bandwidth	PASS	--
FCC Part 15.236(g)	Necessary bandwidth	PASS	--
FCC Part 15.236(f)(1)(iii)	Frequency stability	PASS	--
FCC Part 15.236(g)	Emission within the band and outside this band	PASS	--
FCC Part 207(a)	Conducted Emission	PASS	--

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10:2013

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-0769-27280901
Fax:	+86-0769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097	

1.2 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** %.

No.	Item	Uncertainty
1	RF output power, conducted	± 0.71 dB
2	Unwanted Emissions, conducted	± 2.98 dB
3	Conducted Emission (9KHz-150KHz)	± 4.13 dB
4	Conducted Emission (150KHz-30MHz)	± 4.74 dB
5	All emissions,radiated (9KHz -30MHz)	± 3.1 dB
6	All emissions,radiated(<1G) 30MHz-1000MHz	± 3.2 dB
7	All emissions,radiated (1GHz -18GHz)	± 3.66 dB
8	All emissions,radiated (18GHz -40GHz)	± 4.31 dB
9	Power Spectral Density	± 0.48 dB
10	Occupied bandwidth	± 0.3 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless monitoring system
Brand Name	N/A
Model Name	AR9
Series Model	See the first page of the report
Model Difference	PCB board, structure and internal of these model(s) are the same, only differing in Model name and color. So no additional models were tested
Channel List	Please refer to the Note 2.
Operation frequency	CH : 572.5-587.5MHz
Modulation Type	FM
Antenna Type	Spring antenna
Antenna Gain (dBi)	0dBi
Power Supply	DC 5V
Battery	DC 3.7V
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

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

2. Channel List

Channel			
Channel	Frequency (MHz)		
1	572.50	9	580.50
2	573.50	10	581.50
3	574.50	11	582.50
4	575.50	12	583.50
5	576.50	13	584.50
6	577.50	14	585.50
7	578.50	15	586.50
8	579.50	16	587.50

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

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.

The test The fixed frequency prototype is used for manual operation was used to control EUT work in continuous TX mode, and select test channel,

Wireless mode as below table, the following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Tested mode, channel , information		
Mode	Channel	Frequency (MHz)
Channel	Low	572.50
	Middle	580.50
	High	587.50

Note: Only the worst working mode is displayed during testing

2.3 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.	Serial No.	Note

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2025.08.25	2026.08.24
Signal Analyzer	R&S	FSV40-N	FCS-E012	2025.08.25	2026.08.24
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2025.08.25	2026.08.24
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2025.08.25	2026.08.24
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2025.08.25	2026.08.24
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2025.08.25	2026.08.24
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2025.08.25	2026.08.24
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2025.08.25	2026.08.24
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E005	2025.08.25	2026.08.24
Signal generator	Agilent	E4421B	FCS-E025	2025.08.25	2026.08.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2025.08.25	2026.08.24
LISN	R&S	ENV216	FCS-E007	2025.08.25	2026.08.24
LISN	ETS	3810/2NM	FCS-E009	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E008	2025.08.25	2026.08.24

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2025.08.25	2026.08.24
Spectrum Analyzer	Agilent	E4447A	MY50180039	2025.08.25	2026.08.24
Spectrum Analyzer	R&S	FSV-40	101499	2025.08.25	2026.08.24
Audio Analyzer	R&S	UPL	FCS-E39	2025.08.25	2026.08.24

3. CONDUCTED EMISSION MEASUREMENT

3.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

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.

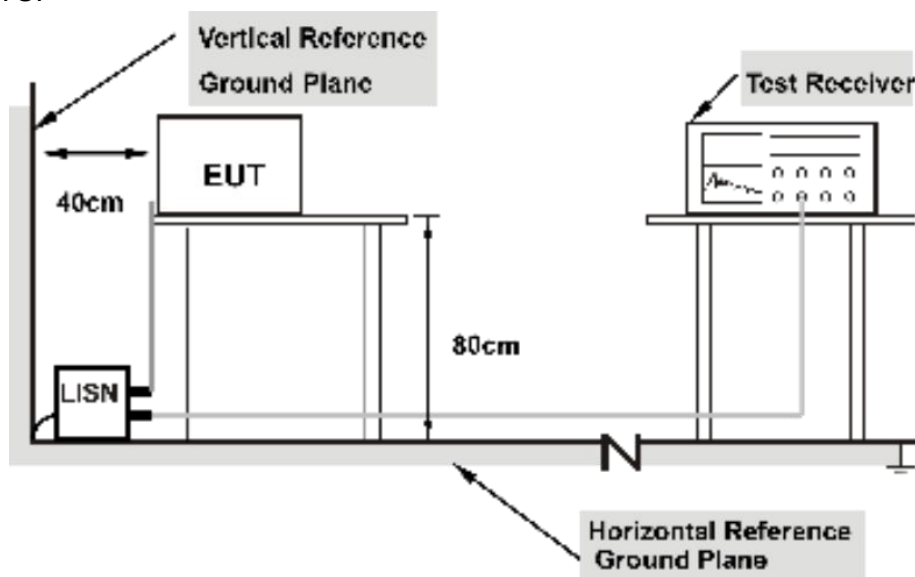
3.2 TEST PROCEDURE

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

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 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 at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP

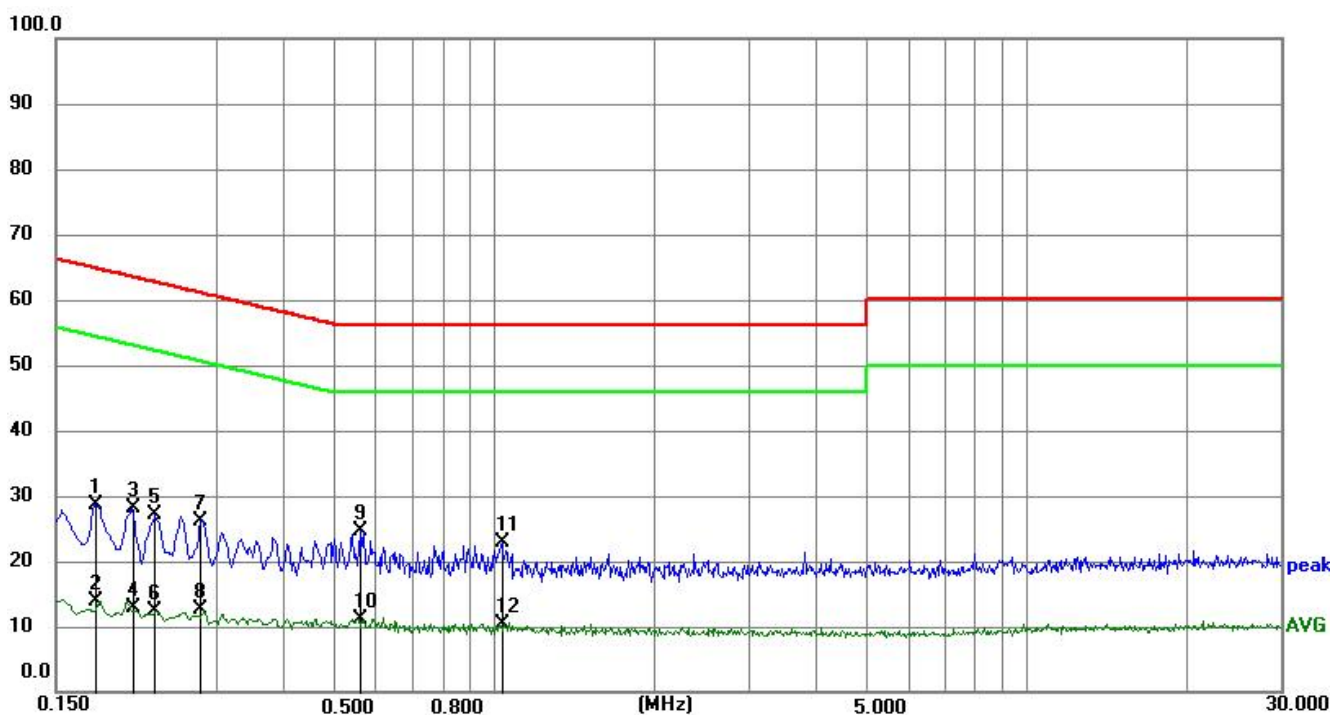


Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

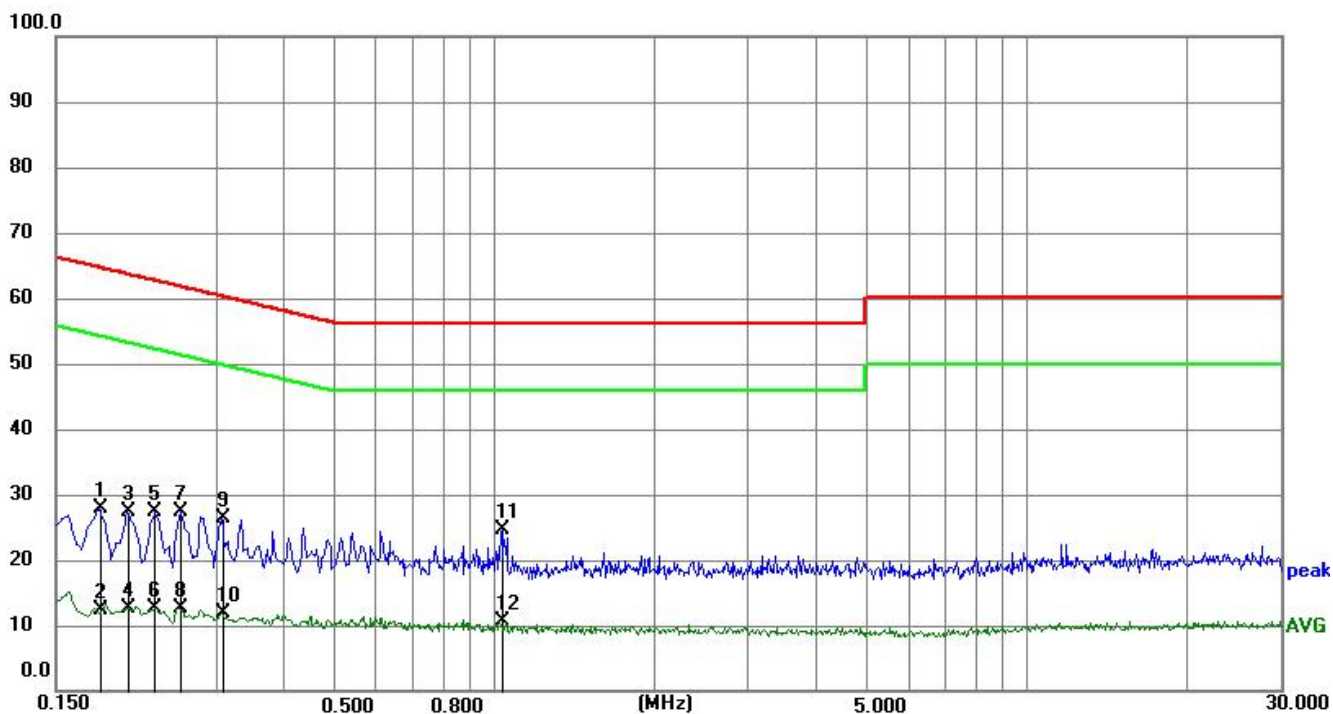
3.4 TEST RESULTS

Temperature:	25℃	Relative Humidity:	50%
Test Mode:	Low CH (FM)	Test Voltage:	DC 5V
Result:	L	Result:	Pass



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1770	18.63	10.11	28.74	64.63	35.89	QP
2	0.1770	3.67	10.11	13.78	54.63	40.85	AVG
3	0.2085	18.07	10.07	28.14	63.26	35.12	QP
4	0.2085	2.71	10.07	12.78	53.26	40.48	AVG
5	0.2310	17.09	10.06	27.15	62.41	35.26	QP
6	0.2310	2.32	10.06	12.38	52.41	40.03	AVG
7	0.2805	16.17	10.03	26.20	60.80	34.60	QP
8	0.2805	2.61	10.03	12.64	50.80	38.16	AVG
9	0.5594	14.64	10.01	24.65	56.00	31.35	QP
10	0.5594	1.23	10.01	11.24	46.00	34.76	AVG
11	1.0319	12.86	10.00	22.86	56.00	33.14	QP
12	1.0319	0.31	10.00	10.31	46.00	35.69	AVG

Temperature:	25°C	Relative Humidity:	50%
Test Mode:	Low CH (FM)	Test Voltage:	DC 5V
Result:	N	Result:	Pass



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1815	17.90	10.06	27.96	64.42	36.46	QP
2	0.1815	2.36	10.06	12.42	54.42	42.00	AVG
3	0.2040	17.42	10.05	27.47	63.45	35.98	QP
4	0.2040	2.63	10.05	12.68	53.45	40.77	AVG
5	0.2310	17.38	10.05	27.43	62.41	34.98	QP
6	0.2310	2.46	10.05	12.51	52.41	39.90	AVG
7	0.2580	17.25	10.04	27.29	61.50	34.21	QP
8	0.2580	2.65	10.04	12.69	51.50	38.81	AVG
9	0.3075	16.40	10.04	26.44	60.04	33.60	QP
10	0.3075	1.84	10.04	11.88	50.04	38.16	AVG
11	1.0319	14.66	9.99	24.65	56.00	31.35	QP
12	1.0319	0.60	9.99	10.59	46.00	35.41	AVG

Remark:1.All readings are Quasi-Peak and Average values

2.During the test, pre-scan all modes, only the worst case is recorded in the report. AC conducted emission pre-test at both at DC 5V modes, recorded worst case DC 5V.

4 MAXIMUM RADIATED POWER

4.1 LIMIT

Refer to FCC 15.236(d)

In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP

4.2 TEST PROCEDURE

A · Connect each EUT's antenna output to power sensor by RF cable and attenuator

3.3 TEST SETUP



4.4 TEST RESULTS

ANT 1

Test mode	Channel	Frequency (MHz)	Cable loss (dB)	Peak Output Power (dBm)	Antenna Gain (dBi)	EIRP(dBm)	Limit (dBm)	Verdict
Channel	Low	572.50	1.0	7.62	0	7.62	16.99	PASS
	Middle	580.50	1.0	7.55	0	7.55		
	High	587.50	1.0	7.44	0	7.44		

Note:Cable loss values have been included in the calculation covered during the test

5. OCCUPIED BANDWIDTH

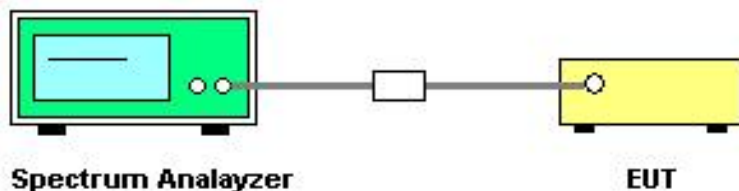
5.1 LIMIT

One or more adjacent 25KHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz

5.2 TEST PROCEDURE

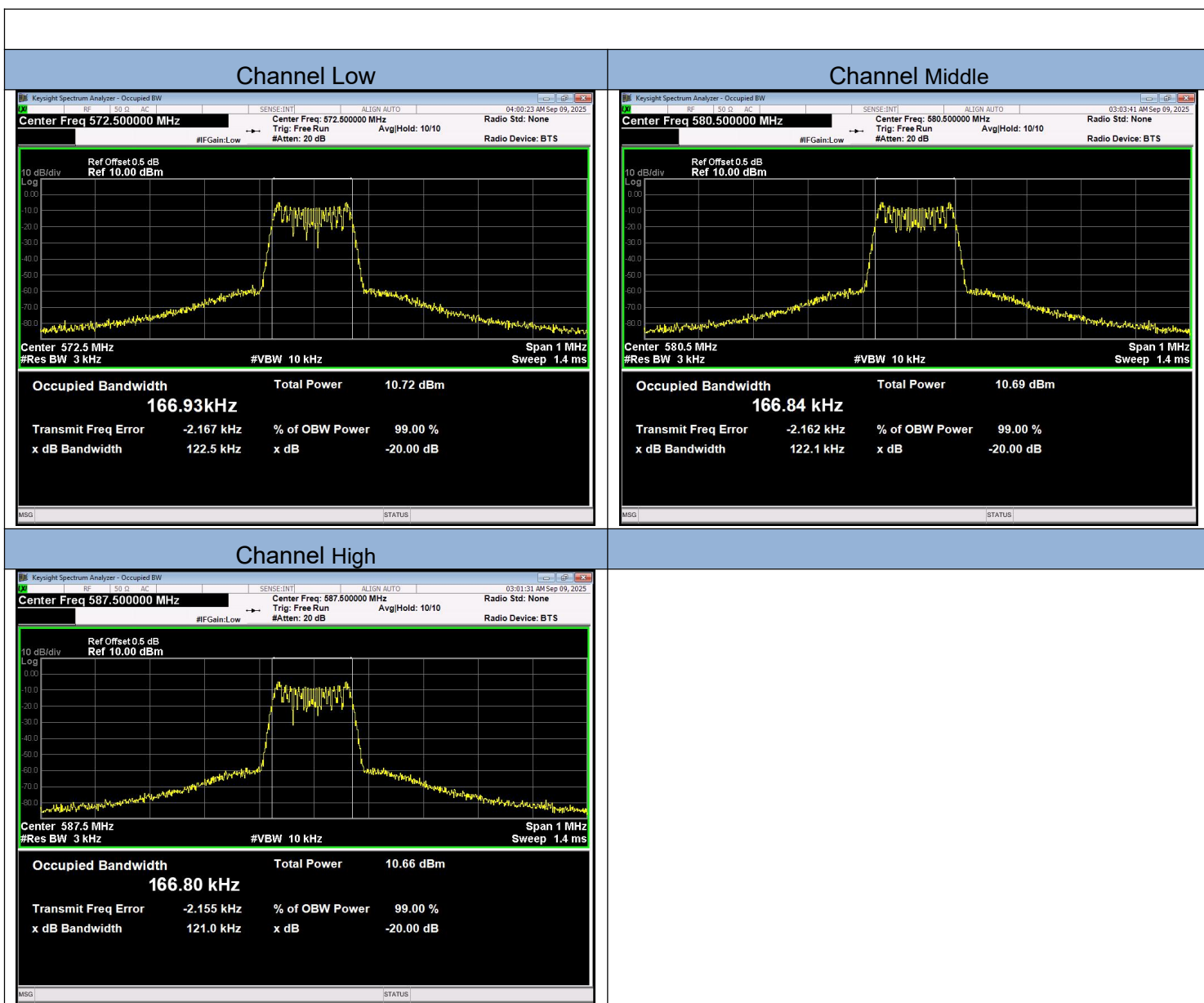
Parameter	Setting
Detector	Peak/AV
Sweep time	Auto
Resolution bandwidth	1 % to 5 % of the occupied bandwidth
Video bandwidth:	3 x resolution bandwidth
Span:	2 x emission bandwidth
Trace mode:	Max. hold
Analyzer function:	99% power occupied bandwidth function
EUT:	Modulated signal with max(FM,2.5kHz tone). frequency deviation

5.3 TEST SETUP



5.4 TEST RESULTS

Test mode	Channel	Frequency (MHz)	99% Bandwidth(KHz)	20dB Bandwidth(KHz)	Limt(KHz)	Verdict
Channel A	Low	572.50	166.93	122.5	200KHz	PASS
	Middle	580.50	166.84	122.1		
	High	587.50	166.8	121.0		



6.NECESSARY BANDWIDTH

6.1 LIMIT

Analog systems. Emissions within the band from $2.5 \times B$ below to $2.5 \times B$ above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask in Figure 1 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 15.38).

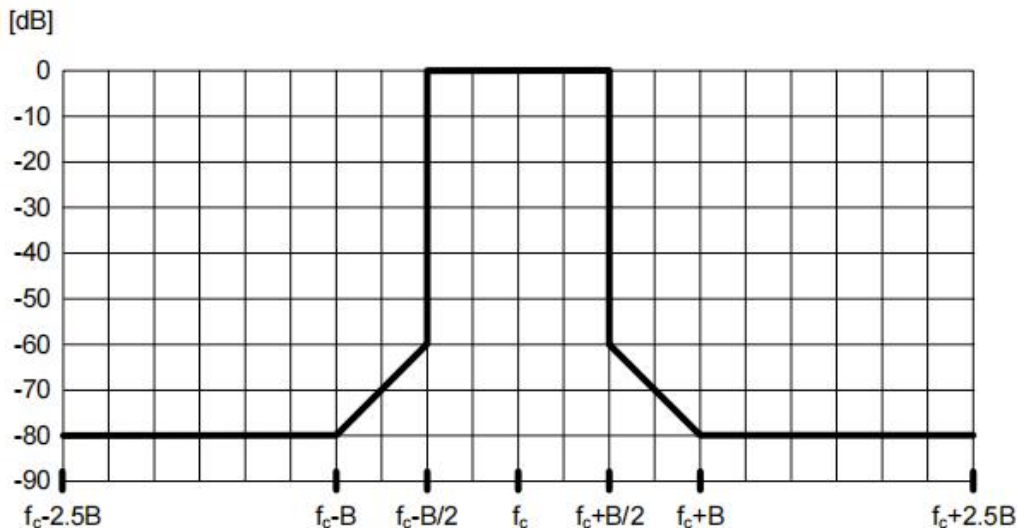
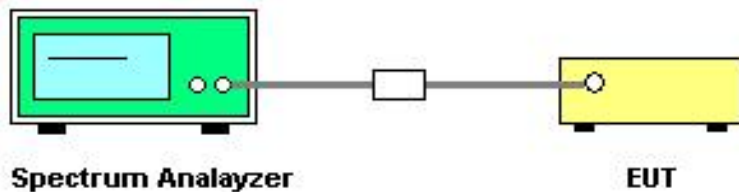


Figure 1: Transmit spectral power mask for equipment employing analogue modulation, RBW = 1 kHz

6.2 TEST PROCEDURE

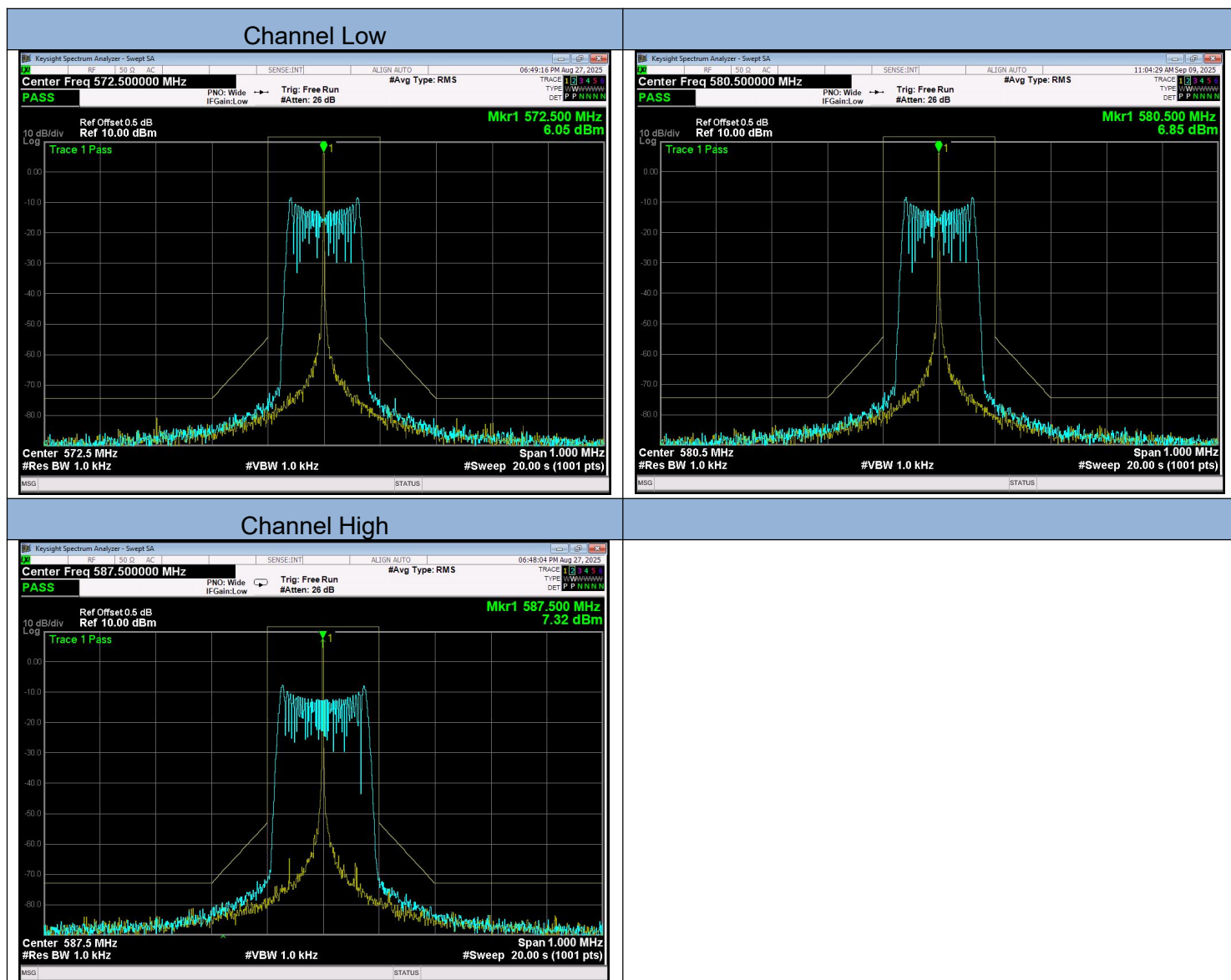
Measurement parameter	
Detector:	Peak - Quasi Peak / Average
Sweep time:	Auto
Resolution bandwidth:	1 kHz
Video bandwidth:	1 kHz
Span:	Fc-1MHz to fc+1MHz(2MHz)
Trace mode:	Max Hold

6.3 TEST SETUP



Center Frequency (MHz)	Declared Bandwidth (KHz)	B (KHz)	B/2 (KHz)
572.50	200	200	100
580.50	200	200	100
587.50	200	200	100

6.4 TEST RESULT



7. TRANSMITTER UNWANTED EMISSIONS

7.1 LIMIT

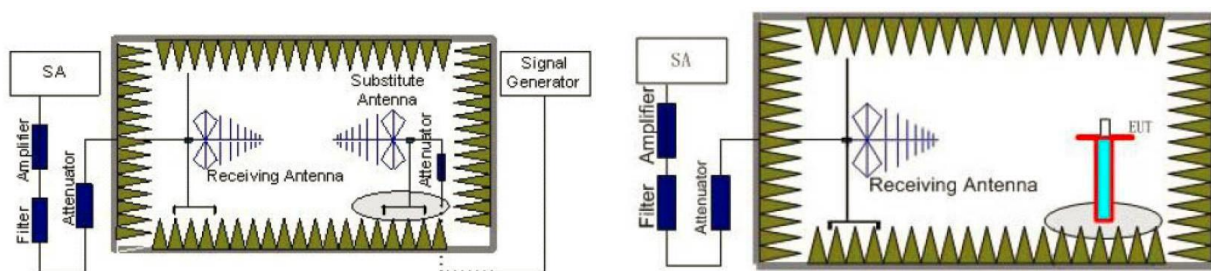
Spurious emissions are emissions outside the frequency range(s) of the equipment. The power of the spurious emissions shall not exceed the limits of table as below:

Frequency range	Maximum power, e.r.p(≤1 GHz) e.i.r.p(> 1 GHz)	Bandwidth
9 kHz - 150 kHz	-36 dBm	1 KHz
150 kHz -30 MHz	-36 dBm	10 KHz
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74 MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 862 MHz	-54 dBm	100 KHz
862 MHz to 1 GHz	-36 dBm	100 KHz
1 GHz to 4 GHz	-30 dBm	1 MHz

7.2 TEST PROCEDURE

- The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 30MHz to 6000MHz with 100 KHz RBW and 300 KHz VBW
- Please refer to ETSI EN 300 422-1 V2.2.1 (2021-11) clause 4.2.4.1.2 for the measurement method.

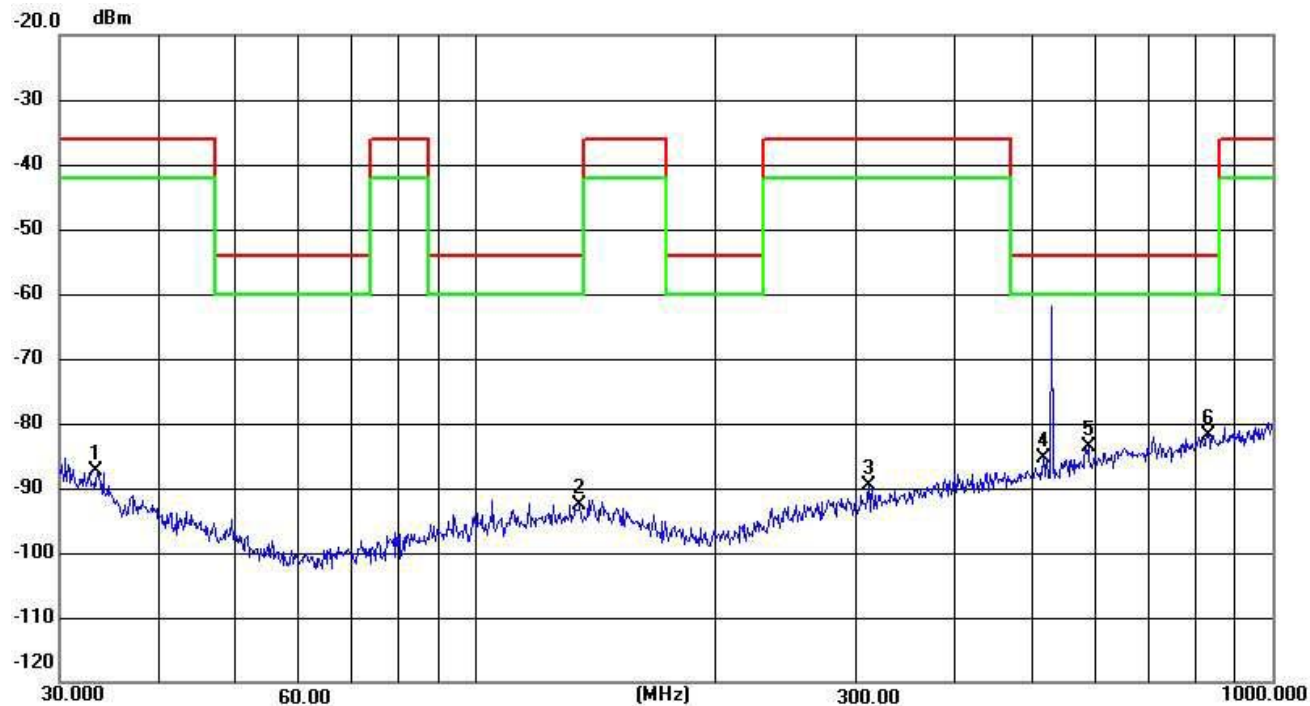
7.3 TEST SETUP



7.4 TEST RESULTS

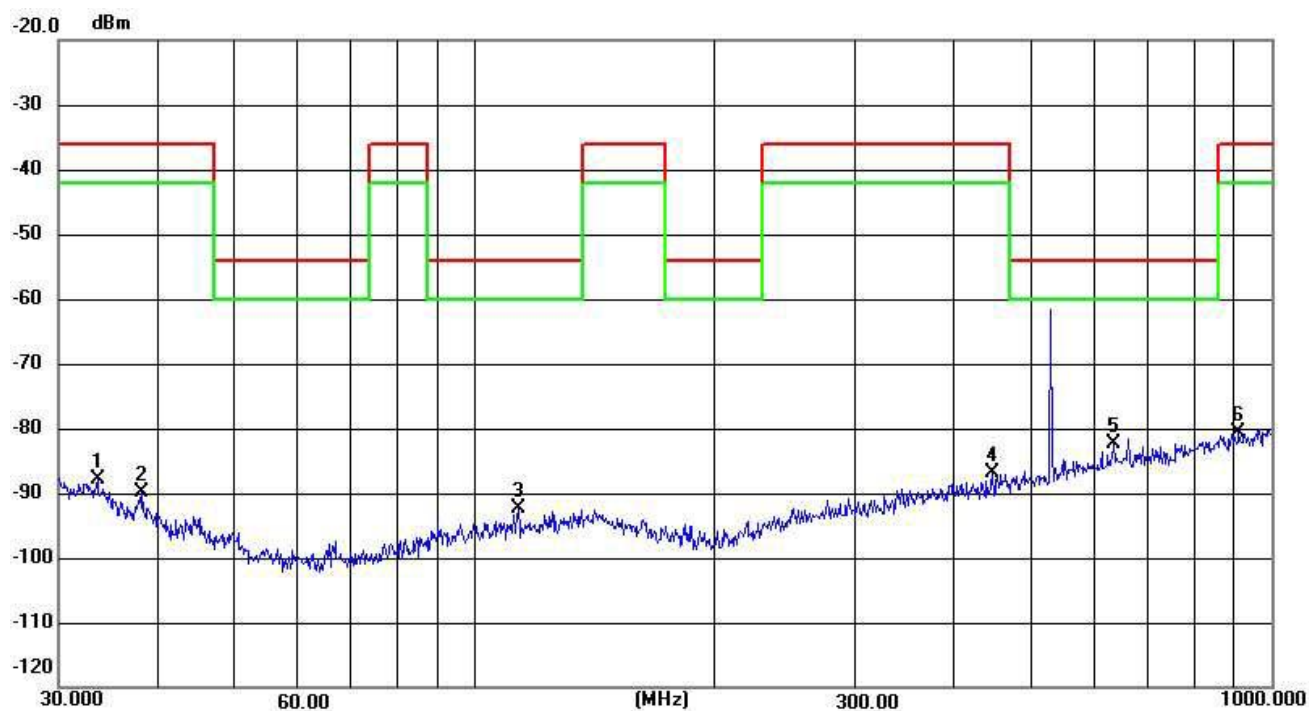
CHNNEL –LOW CH–30MHZ-1000MHZ

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.4449	-77.80	-9.65	-87.45	-36.00	-51.45	peak
2	135.0319	-60.27	-32.26	-92.53	-54.00	-38.53	peak
3	311.0867	-57.56	-32.09	-89.65	-36.00	-53.65	peak
4	515.4374	-53.57	-31.88	-85.45	-54.00	-31.45	peak
5	586.8437	-51.73	-31.78	-83.51	-54.00	-29.51	peak
6	830.4002	-50.28	-31.47	-81.75	-54.00	-27.75	peak

Horizontal



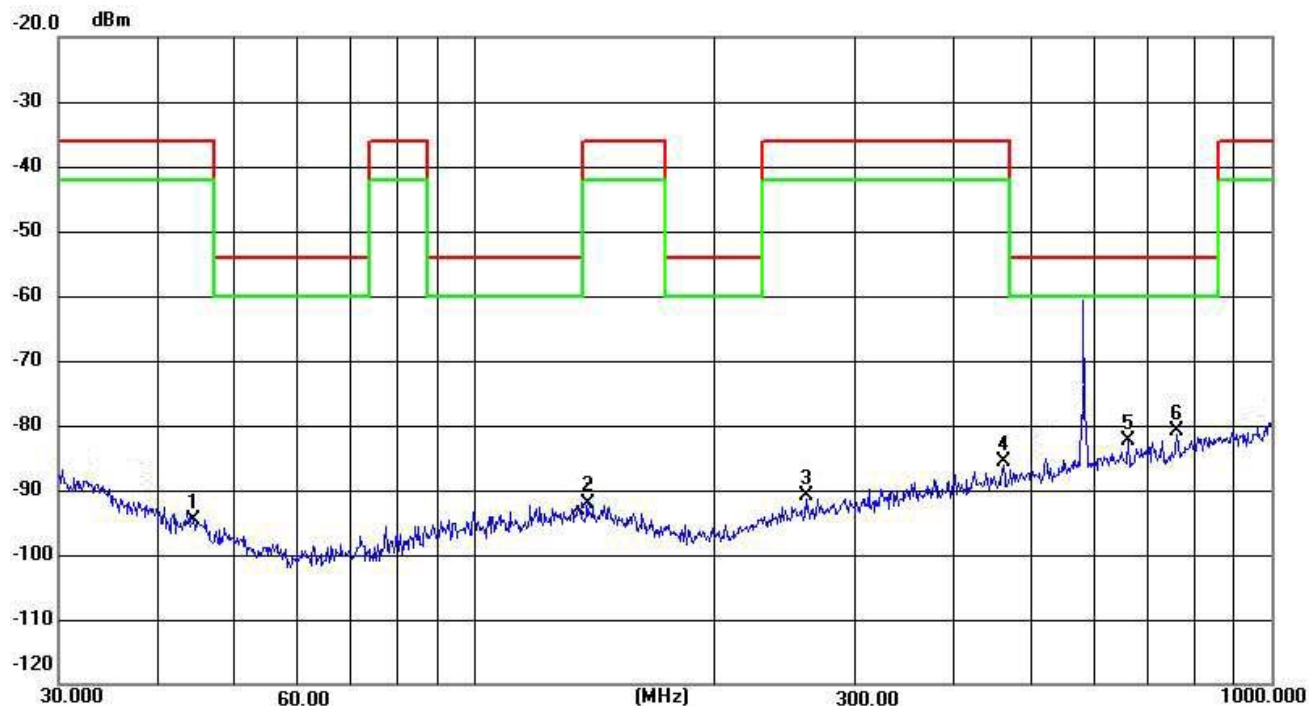
No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.5624	-78.10	-9.74	-87.84	-36.00	-51.84	peak
2	38.2120	-77.16	-12.75	-89.91	-36.00	-53.91	peak
3	113.3163	-60.10	-32.29	-92.39	-54.00	-38.39	peak
4	446.4141	-54.94	-31.95	-86.89	-36.00	-50.89	peak
5	633.9073	-50.59	-31.72	-82.31	-54.00	-28.31	peak
6	909.6667	-49.14	-31.39	-80.53	-36.00	-44.53	peak

Note :

1. Result = Reading + Corrected Factor Note :

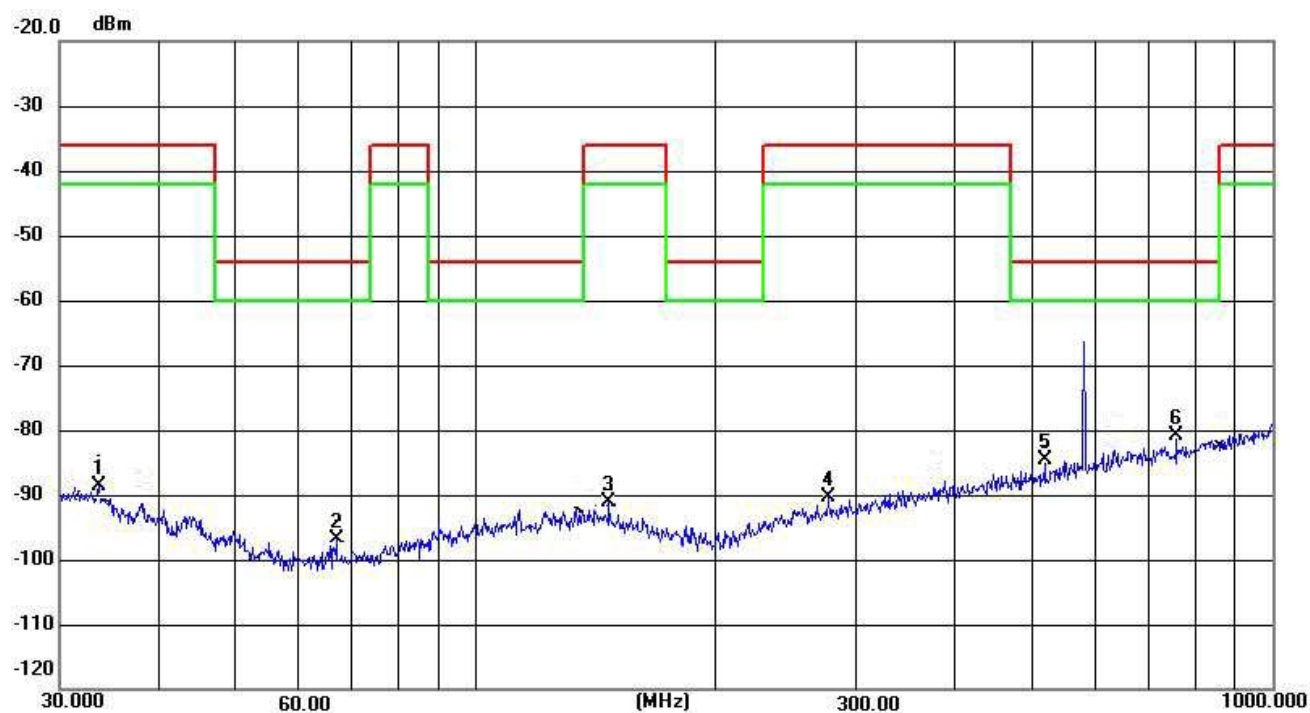
CHNNEL –MIDDLE CH–30MHZ-1000MHZ

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	44.8265	-78.29	-15.53	-93.82	-36.00	-57.82	peak
2	133.8762	-59.72	-32.31	-92.03	-54.00	-38.03	peak
3	266.6254	-57.88	-32.24	-90.12	-36.00	-54.12	peak
4	469.2561	-55.65	-31.91	-87.56	-36.00	-51.56	peak
5	618.9657	-50.98	-31.68	-82.66	-54.00	-28.66	peak
6	762.6542	-50.03	-31.44	-81.47	-54.00	-27.47	peak

Horizontal



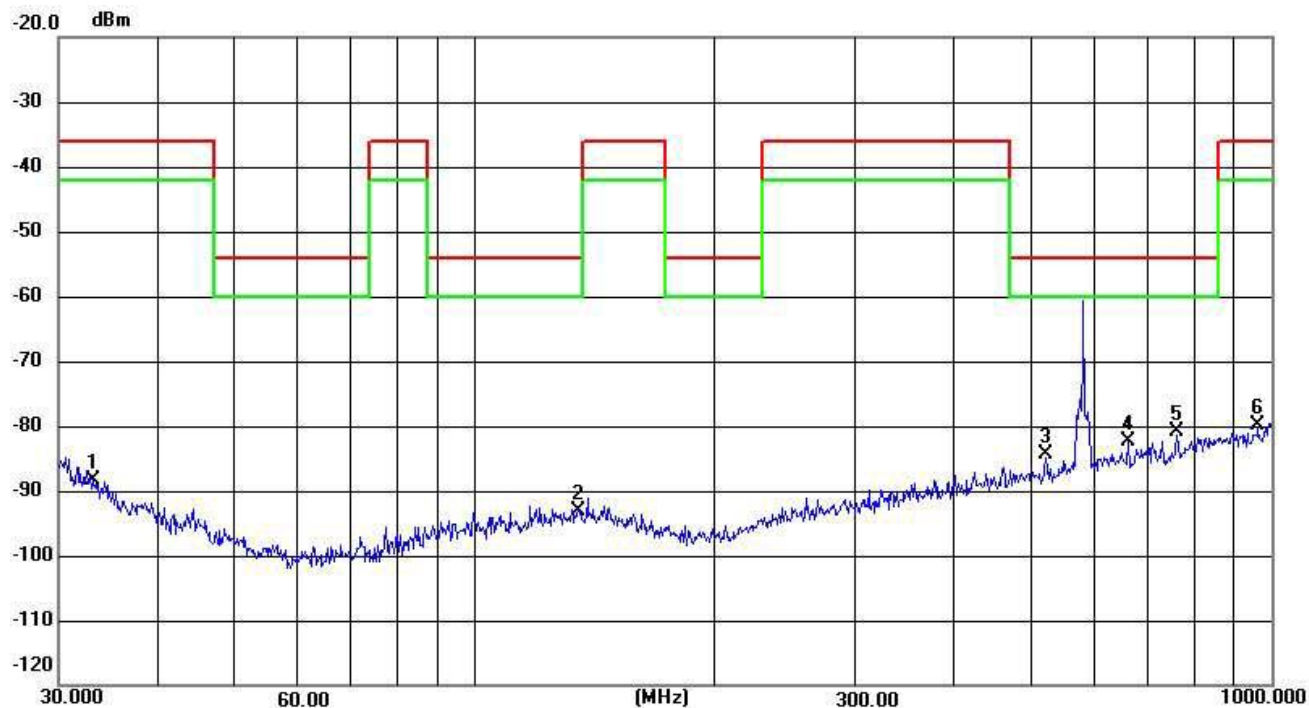
No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.9625	-79.52	-9.62	-89.14	-36.00	-53.14	peak
2	66.4382	-77.34	-19.99	-97.33	-54.00	-43.33	peak
3	152.6537	-60.47	-31.27	-91.74	-36.00	-55.74	peak
4	275.3748	-58.04	-31.92	-89.96	-36.00	-53.96	peak
5	517.3472	-53.43	-31.64	-85.07	-54.00	-31.07	peak
6	758.5296	-49.74	-31.37	-81.11	-54.00	-27.11	peak

Note :

1. Result = Reading + Corrected Factor Note :

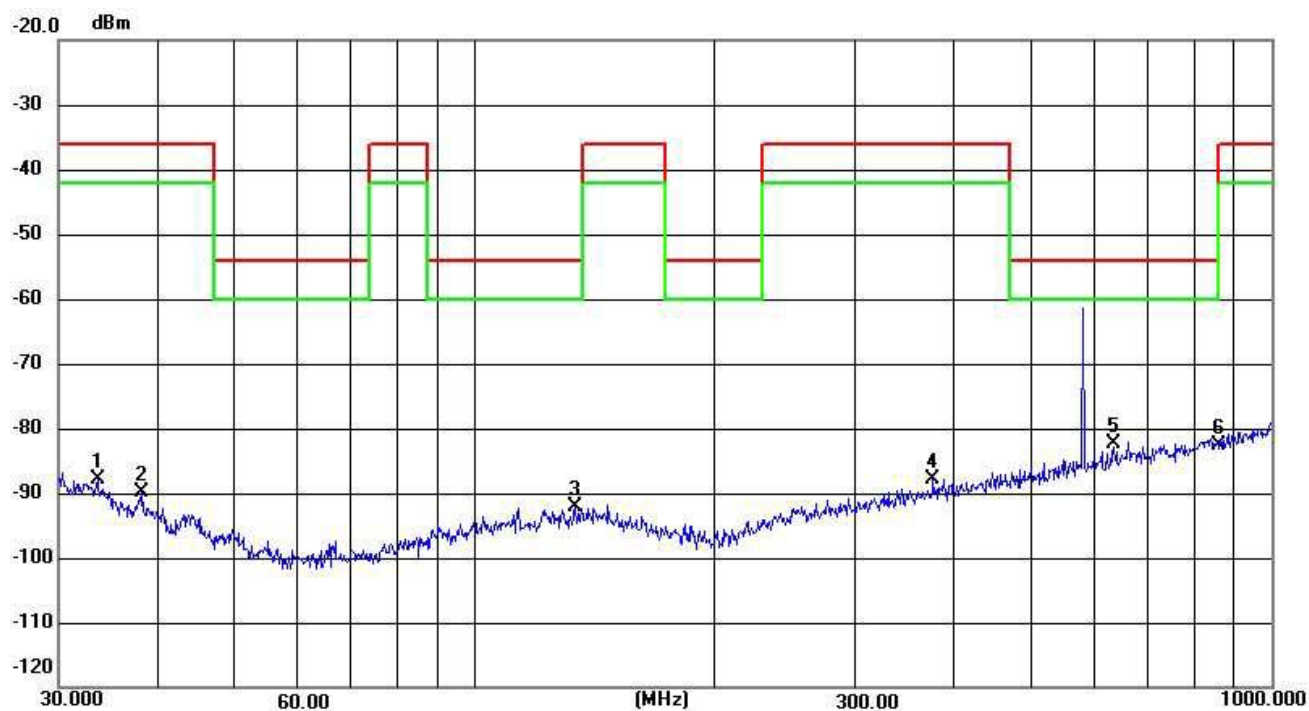
CHANNEL –HIGH CH–30MHZ-1000MHZ

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.2112	-78.75	-9.50	-88.25	-36.00	-52.25	peak
2	135.0319	-60.95	-32.26	-93.21	-54.00	-39.21	peak
3	520.8882	-52.53	-31.87	-84.40	-54.00	-30.40	peak
4	661.1504	-50.76	-31.69	-82.45	-54.00	-28.45	peak
5	760.7036	-49.26	-31.55	-80.81	-54.00	-26.81	peak
6	962.1623	-48.61	-31.34	-79.95	-36.00	-43.95	peak

Horizontal



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.5624	-78.10	-9.74	-87.84	-36.00	-51.84	peak
2	38.2120	-77.16	-12.75	-89.91	-36.00	-53.91	peak
3	133.6188	-59.93	-32.27	-92.20	-54.00	-38.20	peak
4	375.9385	-55.83	-32.02	-87.85	-36.00	-51.85	peak
5	633.9073	-50.59	-31.72	-82.31	-54.00	-28.31	peak
6	860.0352	-51.09	-31.44	-82.53	-54.00	-28.53	peak

Note :

1. Result = Reading + Corrected Factor Note :

CHANNEL 1GHZ-4GHZ

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V	
Channel 572.50 MHz							
1145.00	-50.50	7.92	-42.58	-30	-12.58	H	Peak
1717.50	-51.28	13.97	-37.31	-30	-7.31	H	Peak
2290.00	-49.39	7.92	-41.47	-30	-11.47	V	Peak
2862.50	-48.90	13.64	-35.26	-30	-5.26	V	Peak
Channel 580.50MHz							
1161.00	-51.52	8.02	-43.50	-30	-13.50	H	Peak
1741.50	-52.36	13.61	-38.75	-30	-8.75	H	Peak
2322.00	-50.37	8.13	-42.24	-30	-12.24	V	Peak
2902.50	-49.02	13.59	-35.43	-30	-5.43	V	Peak
Channel 587.50MHz							
1175.00	-53.70	8.19	-45.51	-30	-15.51	H	Peak
1762.50	-53.58	13.52	-40.06	-30	-10.06	H	Peak
2350.00	-51.43	8.19	-43.24	-30	-13.24	V	Peak
2937.50	-49.18	13.52	-35.66	-30	-5.66	V	Peak

Remark.

1.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

8. FREQUENCY STABILITY

8.1 LIMIT

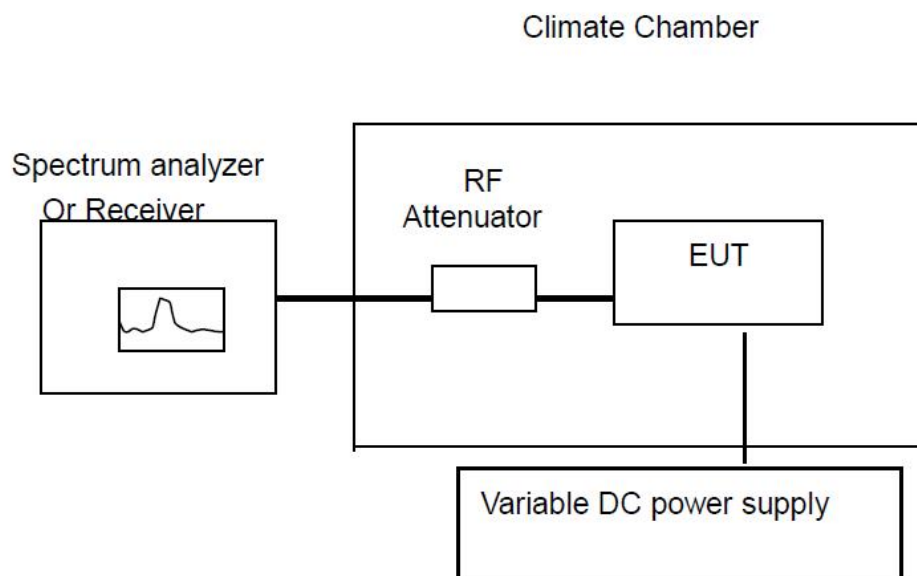
The frequency tolerance of the carrier signal shall be maintained within $\pm 0.005\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C

8.2 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 from 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.

8.3 TEST SETUP



8.4 TEST RESULTS

- (1) Frequency stability versus input voltage (Supply Nominal voltage is DC 3V)
- (2) Frequency stability versus input voltage (Supply battery operating end point which shall be specified by the manufacturer DC 3.7V)

Refernce Frequency: 572.50MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.33V	20	1021	1.783406114
DC 3.7V	20	1011	1.765938865
DC 4.07V	20	1013	1.769432314

Reference Frequency: 572.50MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	1023	1.786899563	50	Pass
40	1022	1.785152838		
30	1019	1.779912664		
20	1023	1.786899563		
10	1019	1.779912664		
0	1023	1.786899563		
-10	1023	1.786899563		
-20	1019	1.779912664		

Refernce Frequency: 580.50MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.33V	20	1015	1.748492679
DC 3.7V	20	1008	1.736434108
DC 4.07V	20	1011	1.741602067

Refernce Frequency: 580.50MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	1011	1.741602067	50	Pass
40	1009	1.738156761		
30	1009	1.738156761		
20	1012	1.743324720		
10	1010	1.739879414		
0	1010	1.739879414		
-10	1008	1.736434108		
-20	1015	1.748492679		

Refernce Frequency: 587.50MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.33V	20	1009	1.717446808
DC 3.7V	20	1006	1.712340425
DC 4.07V	20	1010	1.719148936

Refernce Frequency: 587.50MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	1011	1.720851064	50	Pass
40	1006	1.712340425		
30	1006	1.712340425		
20	1008	1.715744681		
10	1007	1.714042553		
0	1008	1.715744681		
-10	1008	1.715744681		
-20	1006	1.712340425		

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