FCC RADIO TEST REPORT

Applicant	:	Ubiquiti Inc.
Address	:	685 Third Avenue, New York, New York 10017, USA
Equipment	:	Relay
Model No.	:	USL-Relay
Trade Name	:	UBIQUITI
FCC ID	:	SWX-USLR

I HEREBY CERTIFY THAT :

The sample was received on Jan. 29, 2026 and the testing was completed on Feb. 23, 2026 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

CONTENTS

History of this test report

Report No.	Issued Date	Description
26010476-TRFCC01	Mar. 05, 2026	Original

1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(1)	. Channel Carrier Frequencies Separation	PASS
15.247(a)(1)	. 20dB Bandwidth	PASS
15.247(a)(1)	. Dwell Time	PASS
15.247(b)	. Number of Hopping Channels	PASS
15.247(b)	. Peak Output Power Measurement Data	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	915MHz – 928MHz
Center Frequency Range	915.2MHz – 927.8MHz
Modulation Type	GFSK
Modulation Technology	FHSS
Antenna Type	PIFA Antenna
Antenna Gain	0 dBi

Note: For more details, please refer to the User's manual of the EUT.

2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
***00**	**915.2**	25	920.2	50	925.2
01	915.4	26	920.4	51	925.4
02	915.6	27	920.6	52	925.6
03	915.8	28	920.8	53	925.8
04	916	29	921	54	926
05	916.2	30	921.2	55	926.2
06	916.4	31	921.4	56	926.4
07	916.6	***32**	**921.6**	57	926.6
08	916.8	33	921.8	58	926.8
09	917	34	922	59	927
10	917.2	35	922.2	60	927.2
11	917.4	36	922.4	61	927.4
12	917.6	37	922.6	62	927.6
13	917.8	38	922.8	***63**	**927.8**
14	918	39	923		
15	918.2	40	923.2		
16	918.4	41	923.4		
17	918.6	42	923.6		
18	918.8	43	923.8		
19	919	44	924		
20	919.2	45	924.2		
21	919.4	46	924.4		
22	919.6	47	924.6		
23	919.8	48	924.8		
24	920	49	925		

Note: Channels remarked * are selected to perform test.

(For Above 1GHz)

Below test Channel generated the worst case, they were reported as the final data.

Modulation Type	Frequency (MHz)	1GHz ~ 1.5GHz		1.5GHz ~ 10GHz	
		Ver PK/AV	Hor PK/AV	Ver PK/AV	Hor PK/AV
Lora	915.2	v	v	v	v
	921.6	v	v	v	v
	927.8	v	v	v	v

2.3 Test Mode and Test Software

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.

b. An executive program, ”Telnet Ver.: N/A” under Windows 10 system was executed to transmit and receive data via LoRa.

c. The test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode 1	TX Mode, Power from DC 12V/1A from Power Supply (AC 120V/60Hz)
Test Mode 2	TX Mode, Power from DC 12V/1A from Power Supply (AC 240V/60Hz)
caused “Test Mode 2” generated the worst case, it was reported as the final data.	
Radiated Emissions (30MHz ~ 1GHz)	
Test Mode 1	TX Mode, Power from DC 12V/1A from Power Supply (AC 120V/60Hz)
Radiated Emissions (1GHz ~ 10GHz)	
Test Mode 1	TX Mode, Power from DC 12V/1A from Power Supply (AC 120V/60Hz)

Modulation Type	TX CONFIGURATION
GFSK	1TX

2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	N/A
DC Power Supply	Gwinstek	GPR-360600	N/A	N/A
Type-C Cable (Blue)	kolin	KEX-DLCP08	1m / NS	N/A
Test Fixture	N/A	N/A	N/A	N/A

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
DC Power Supply	Gwinstek	GPR-360600	N/A	N/A
Type-C Cable (Blue)	kolin	KEX-DLCP08	1m / NS	N/A
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
Test Fixture	N/A	N/A	N/A	N/A

AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
DC Power Supply	Gwinstek	GPR-360600	N/A	N/A
Type-C Cable (Blue)	kolin	KEX-DLCP08	1m / NS	N/A
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
Test Fixture	N/A	N/A	N/A	N/A

2.5 General Information of Test

Organization	Cerpass Technology Corp.	
☒ Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9 kHz to 10,000MHz	
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON02-NK	2026/02/23	23.8°C / 46%	Leon Huang
Radiated Emissions	3M02-NK	2026/02/19	19.5°C / 62%	Leon Huang
Radiated Emissions	3M02-NK	2026/02/20	20.2°C / 63%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2026/02/20	22.4°C /62%	Leon Huang

2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

Measurement Item	Uncertainty
AC Power Line Conduction(150kHz~30MHz)	±3.2dB
Radiated Spurious Emission(9kHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.2dB
Radiated Spurious Emission(1GHz~25GHz)	±5.2dB
Conducted Spurious Emission	±2.1dB
20dB Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time	±3.5%
Duty Cycle	±3.5%

3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
Bilog Antenna	Sunol	JB1	A051717	2025/09/08	2026/09/07
Double Ridged Guide Horn Antenna	RF SPAN	DRH18-E	210309A18-ES	2025/08/22	2026/08/21
Horn Antenna	EMCO	3116	31974	2025/10/07	2026/10/06
Active Loop Antenna	EMCO	6507	VULB 9168-369	2025/04/28	2026/04/27
Spectrum Analyzer	R&S	FSV 40-N	102151	2025/08/18	2026/08/17
EMI Receiver	R&S	ESCI	101423	2025/07/10	2026/07/09
Preamplifier	EM Electronics corp.	EMC0518A45SE	981069	2025/12/18	2026/12/17
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2025/10/13	2026/10/12
Preamplifier	EM Electronics corp.	EM330	60659	2025/12/18	2026/12/17
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
Cable-8m (10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2025/10/15	2026/10/14
Cable-3m (10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2025/10/15	2026/10/14
Cable-1m (1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2025/10/15	2026/10/14
Cable-4m (30M-1G)	HUBER SUHNER	RG-214	02953M	2025/07/03	2026/07/02
Cable-1m (30M-1G)	HUBER SUHNER	RG-214	05094M	2025/07/04	2026/07/03
Cable-9m (30M-1G)	HUBER SUHNER	RG-214	00402M	2025/07/04	2026/07/03
Cable-1m (1G-40G)	HUBER SUHNER	SF102E	602125	2025/07/19	2026/07/18
Cable-3m (1G-40G)	HUBER SUHNER	SF102E	552450	2025/07/09	2026/07/08
Highpass Filter	WOKEN	WFIL-H1400-10000F	WR866WC2B1	2025/05/05	2026/05/04
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2025/07/09	2026/07/08
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON02-NK				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2025/10/23	2026/10/22
Attenuator	KEYSIGHT	8491B	MY39250705	2025/09/04	2026/09/03
Power Meter	Anritsu	ML2495A	2034001	2025/08/27	2026/08/26
Power Sensor	Anritsu	MA2411B	1911175	2025/08/27	2026/08/26

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
EMI Receiver	R&S	ESR 7	101906	2025/05/19	2026/05/18
Two-Line V-Network	R&S	ENV216	102185	2025/08/28	2026/08/27
Two-Line V-Network	R&S	ENV216	101584	2025/02/26	2026/02/25
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA

4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

Antenna Type	PIFA Antenna
Antenna Gain	0 dBi

5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz, according to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

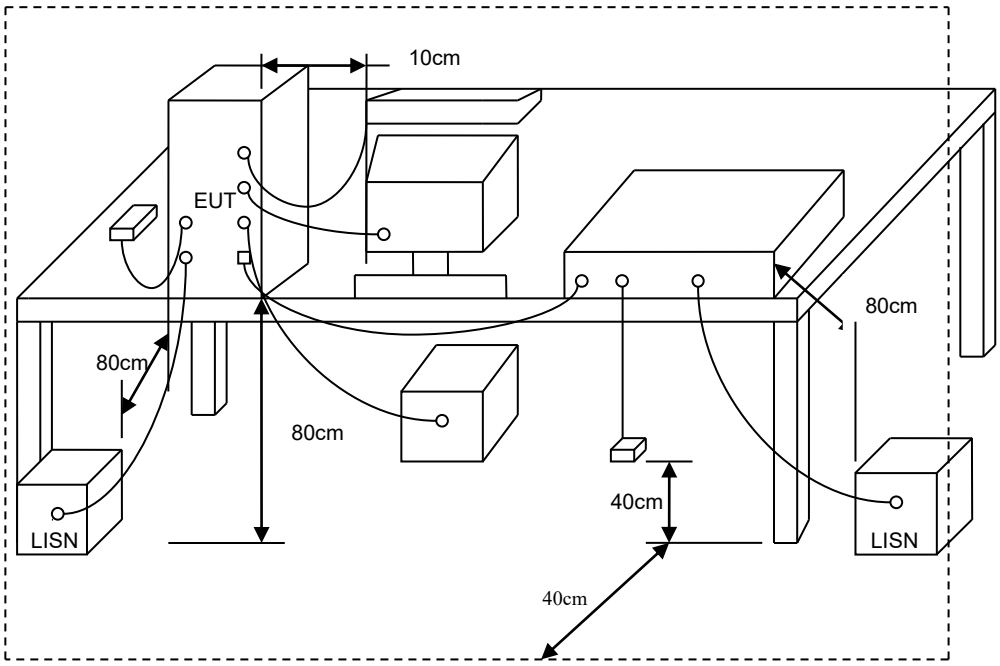
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2 Test Procedures

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

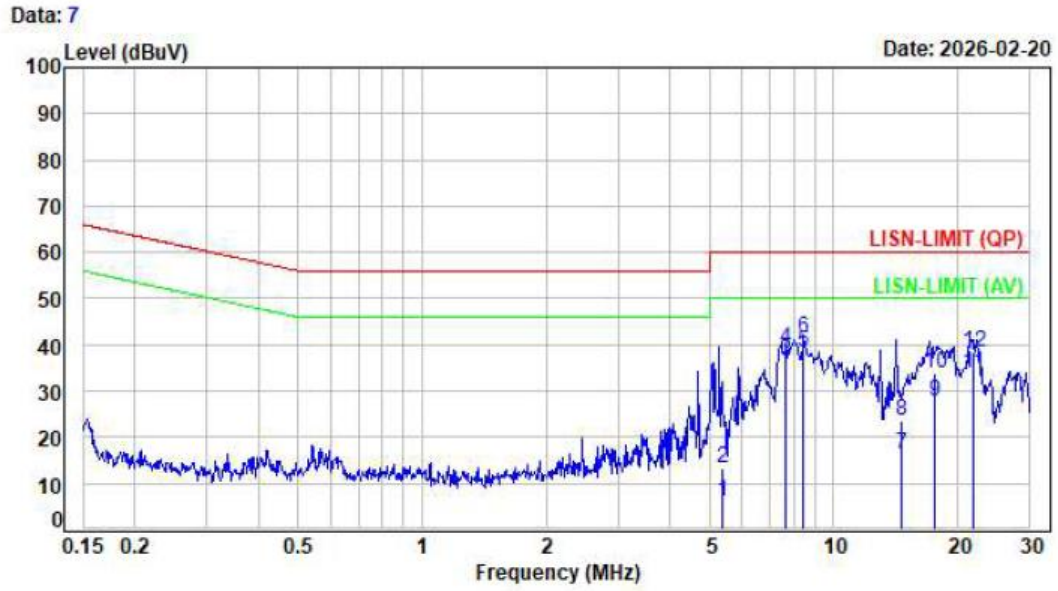
5.3 Typical Test Setup



5.4 Test Result and Data

Test Mode	Mode 2

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC240V/60Hz)
Phase : Line

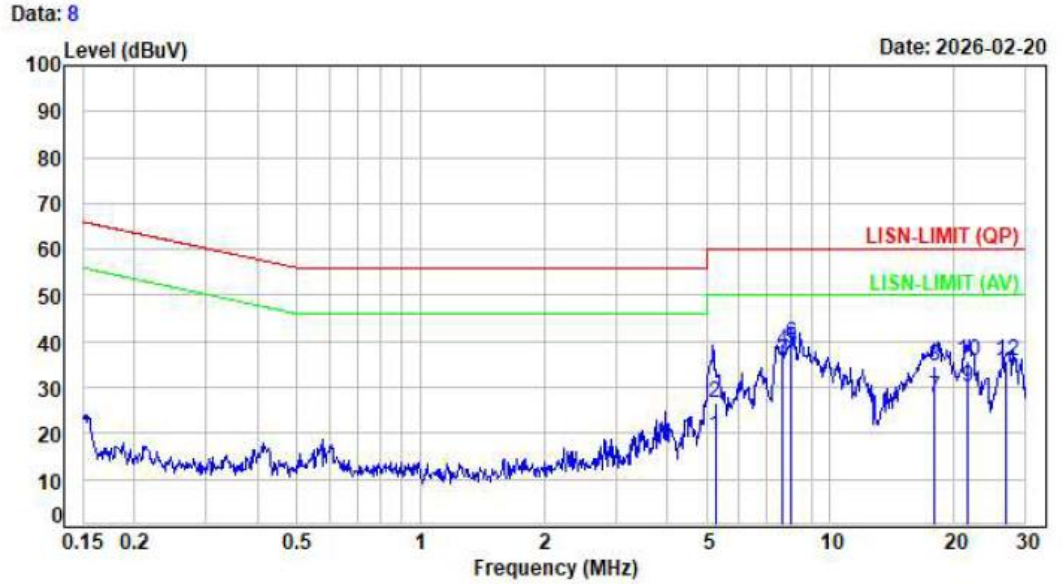


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	5.3798	9.91	-3.99	5.92	50.00	-44.08	Average	P
2	5.3798	9.91	3.59	13.50	60.00	-46.50	QP	P
3	7.6395	9.96	26.63	36.59	50.00	-13.41	Average	P
4	7.6395	9.96	29.37	39.33	60.00	-20.67	QP	P
5	8.4400	9.98	28.43	38.41	50.00	-11.59	Average	P
6	8.4400	9.98	31.44	41.42	60.00	-18.58	QP	P
7	14.5892	10.13	6.26	16.39	50.00	-33.61	Average	P
8	14.5892	10.13	13.52	23.65	60.00	-36.35	QP	P
9	17.5557	10.18	17.59	27.77	50.00	-22.23	Average	P
10	17.5557	10.18	23.68	33.86	60.00	-26.14	QP	P
11	21.8407	10.20	23.77	33.97	50.00	-16.03	Average	P
12	21.8407	10.20	28.28	38.48	60.00	-21.52	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Test Mode	Mode 2

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC240V/60Hz)
Phase : Neutral

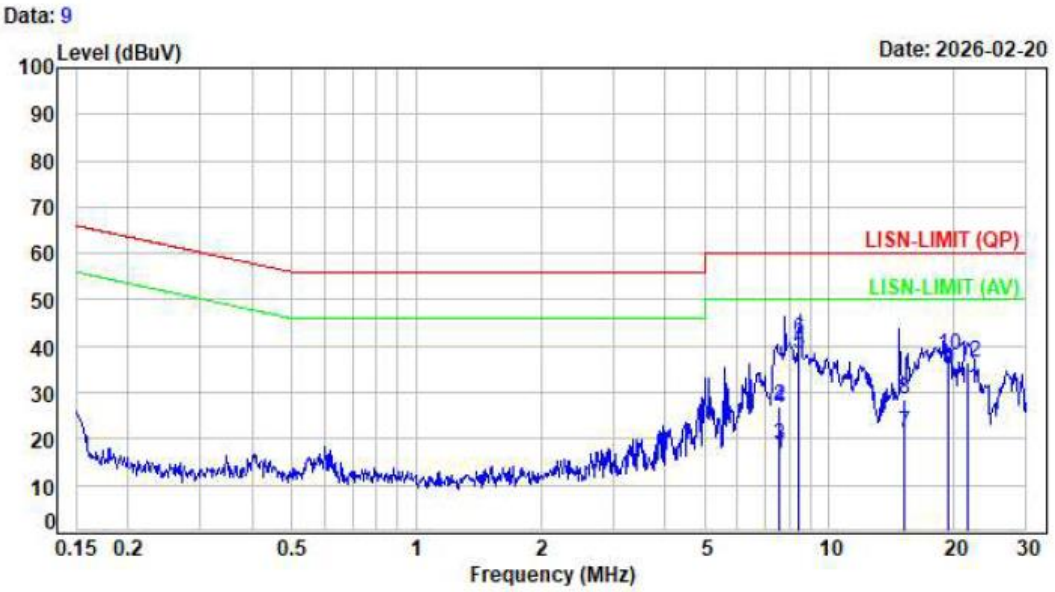


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	5.2369	9.90	9.48	19.38	50.00	-30.62	Average	P
2	5.2369	9.90	16.73	26.63	60.00	-33.37	QP	P
3	7.6402	9.96	25.65	35.61	50.00	-14.39	Average	P
4	7.6402	9.96	28.02	37.98	60.00	-22.02	QP	P
5	8.0402	9.97	28.50	38.47	50.00	-11.53	Average	P
6	8.0402	9.97	29.50	39.47	60.00	-20.53	QP	P
7	17.9308	10.22	17.52	27.74	50.00	-22.26	Average	P
8	17.9308	10.22	24.57	34.79	60.00	-25.21	QP	P
9	21.6013	10.24	19.79	30.03	50.00	-19.97	Average	P
10	21.6013	10.24	25.44	35.68	60.00	-24.32	QP	P
11	26.8408	10.19	23.13	33.32	50.00	-16.68	Average	P
12	26.8408	10.19	25.40	35.59	60.00	-24.41	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Test Mode	Mode 2

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC240V/60Hz)
Phase : Line

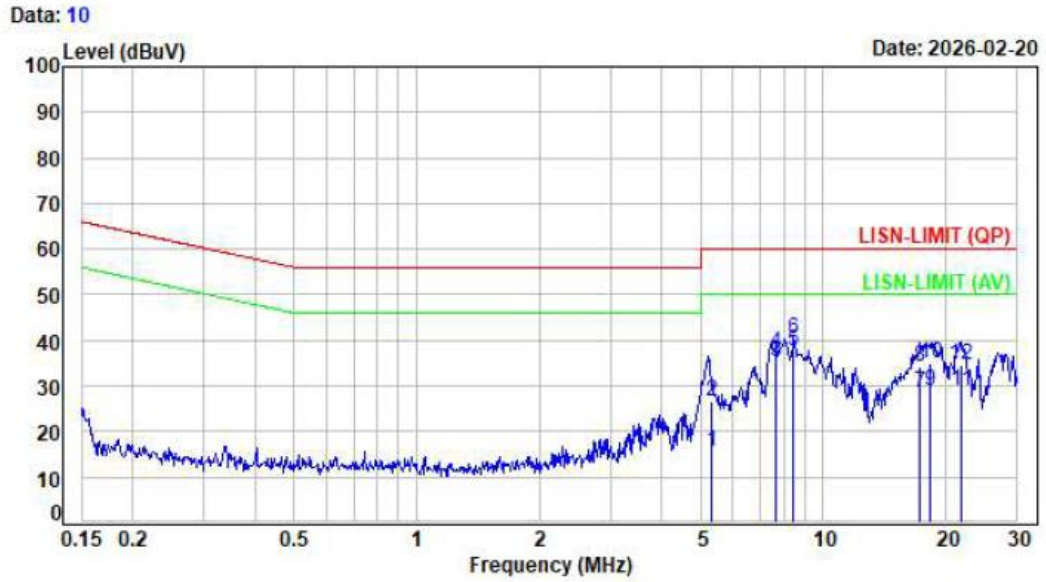


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	7.5761	9.96	6.78	16.74	50.00	-33.26	Average	P
2	7.5761	9.96	16.97	26.93	60.00	-33.07	QP	P
3	7.5798	9.96	8.49	18.45	50.00	-31.55	Average	P
4	7.5798	9.96	16.78	26.74	60.00	-33.26	QP	P
5	8.4402	9.98	28.60	38.58	50.00	-11.42	Average	P
6	8.4402	9.98	31.64	41.62	60.00	-18.38	QP	P
7	15.1987	10.13	11.07	21.20	50.00	-28.80	Average	P
8	15.1987	10.13	18.32	28.45	60.00	-31.55	QP	P
9	19.4819	10.22	24.72	34.94	50.00	-15.06	Average	P
10	19.4819	10.22	27.82	38.04	60.00	-21.96	QP	P
11	21.6199	10.19	20.69	30.88	50.00	-19.12	Average	P
12	21.6199	10.19	26.39	36.58	60.00	-23.42	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Test Mode	Mode 2

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC240V/60Hz)
Phase : Neutral

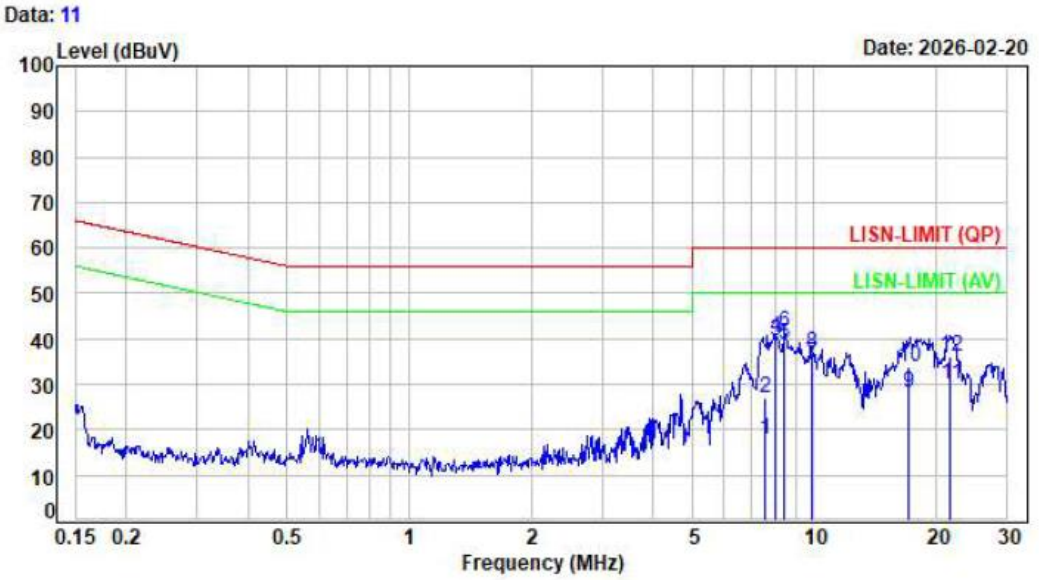


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	5.2952	9.90	5.62	15.52	50.00	-34.48	Average	P
2	5.2952	9.90	16.84	26.74	60.00	-33.26	QP	P
3	7.6395	9.96	25.49	35.45	50.00	-14.55	Average	P
4	7.6395	9.96	27.46	37.42	60.00	-22.58	QP	P
5	8.4400	9.98	27.48	37.46	50.00	-12.54	Average	P
6	8.4400	9.98	30.33	40.31	60.00	-19.69	QP	P
7	17.2016	10.21	18.47	28.68	50.00	-21.32	Average	P
8	17.2016	10.21	24.03	34.24	60.00	-25.76	QP	P
9	18.2800	10.23	18.75	28.98	50.00	-21.02	Average	P
10	18.2800	10.23	24.68	34.91	60.00	-25.09	QP	P
11	21.7649	10.25	18.49	28.74	50.00	-21.26	Average	P
12	21.7649	10.25	24.36	34.61	60.00	-25.39	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Test Mode	Mode 2

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC240V/60Hz)
Phase : Line

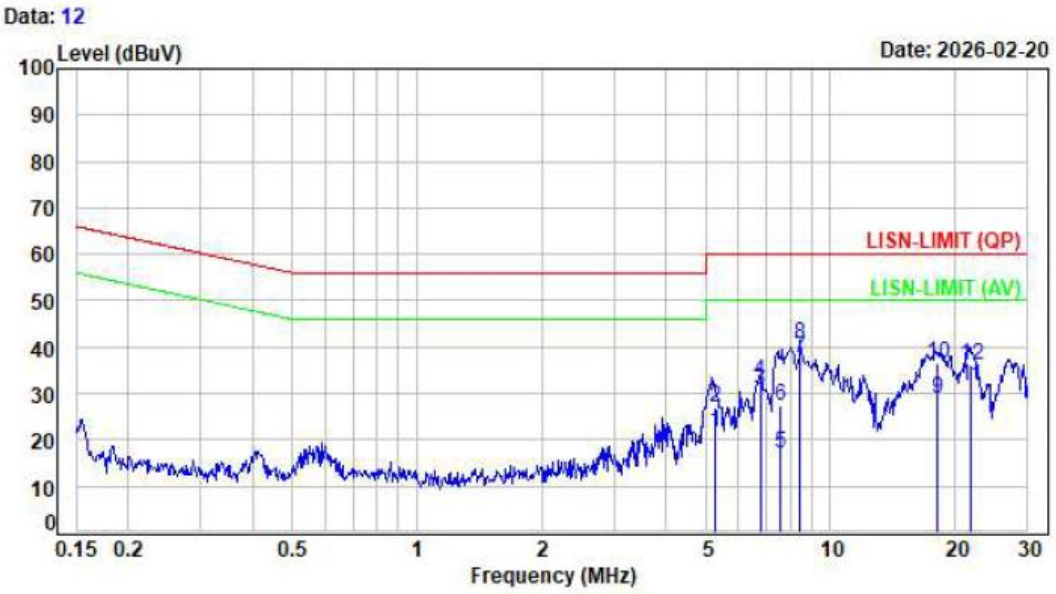


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	7.5789	9.96	7.96	17.92	50.00	-32.08	Average	P
2	7.5789	9.96	17.15	27.11	60.00	-32.89	QP	P
3	8.0397	9.97	29.43	39.40	50.00	-10.60	Average	P
4	8.0397	9.97	30.46	40.43	60.00	-19.57	QP	P
5	8.4405	9.98	28.62	38.60	50.00	-11.40	Average	P
6	8.4405	9.98	31.65	41.63	60.00	-18.37	QP	P
7	9.8403	10.00	24.68	34.68	50.00	-15.32	Average	P
8	9.8403	10.00	26.87	36.87	60.00	-23.13	QP	P
9	17.1169	10.17	17.97	28.14	50.00	-21.86	Average	P
10	17.1169	10.17	23.59	33.76	60.00	-26.24	QP	P
11	21.7150	10.20	19.81	30.01	50.00	-19.99	Average	P
12	21.7150	10.20	25.77	35.97	60.00	-24.03	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Test Mode	Mode 2

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC240V/60Hz)
Phase : Neutral



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	5.2397	9.90	11.89	21.79	50.00	-28.21	Average	P
2	5.2397	9.90	17.26	27.16	60.00	-32.84	QP	P
3	6.7608	9.94	20.76	30.70	50.00	-19.30	Average	P
4	6.7608	9.94	22.84	32.78	60.00	-27.22	QP	P
5	7.5717	9.96	7.17	17.13	50.00	-32.87	Average	P
6	7.5717	9.96	17.57	27.53	60.00	-32.47	QP	P
7	8.4405	9.98	27.55	37.53	50.00	-12.47	Average	P
8	8.4405	9.98	30.59	40.57	60.00	-19.43	QP	P
9	18.2002	10.23	18.75	28.98	50.00	-21.02	Average	P
10	18.2002	10.23	26.15	36.38	60.00	-23.62	QP	P
11	21.7989	10.25	21.25	31.50	50.00	-18.50	Average	P
12	21.7989	10.25	25.99	36.24	60.00	-23.76	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

6. Test of Spurious Emission (Radiated)

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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

6.2 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.
b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
c. The table was rotated 360 degrees to determine the position of the highest radiation.
d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
i. “Cone of radiation” has been considered to be 3dB bandwidth of the measurement antenna.

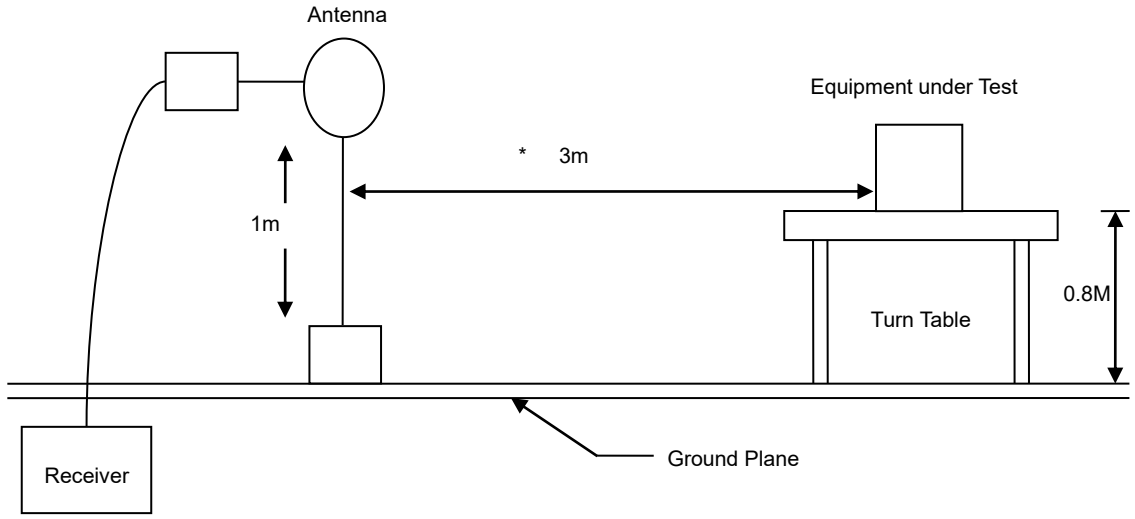
Note:

1.The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized. (Y-AXIS is the worst.)

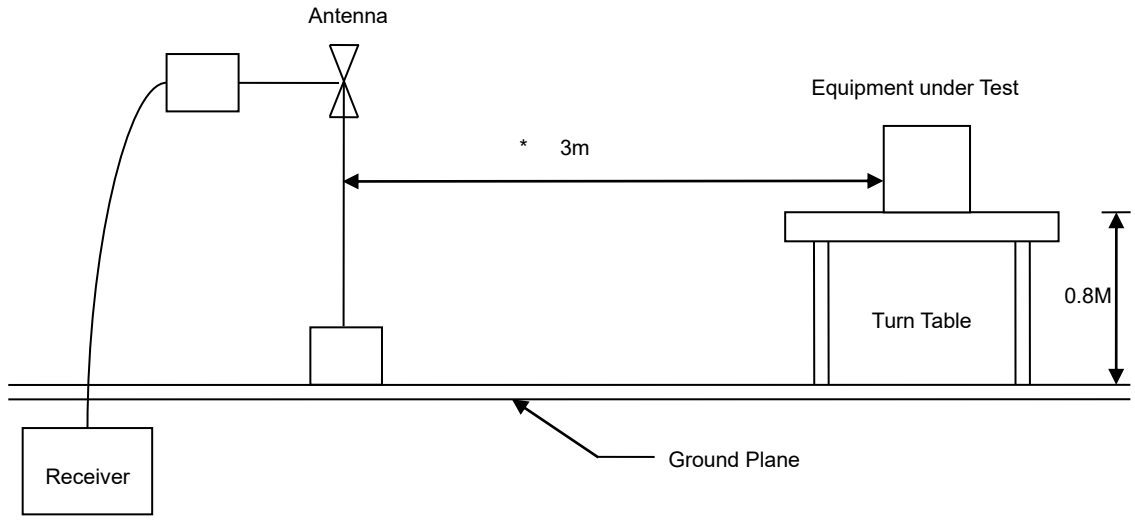
2.Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.

6.3 Typical Test Setup

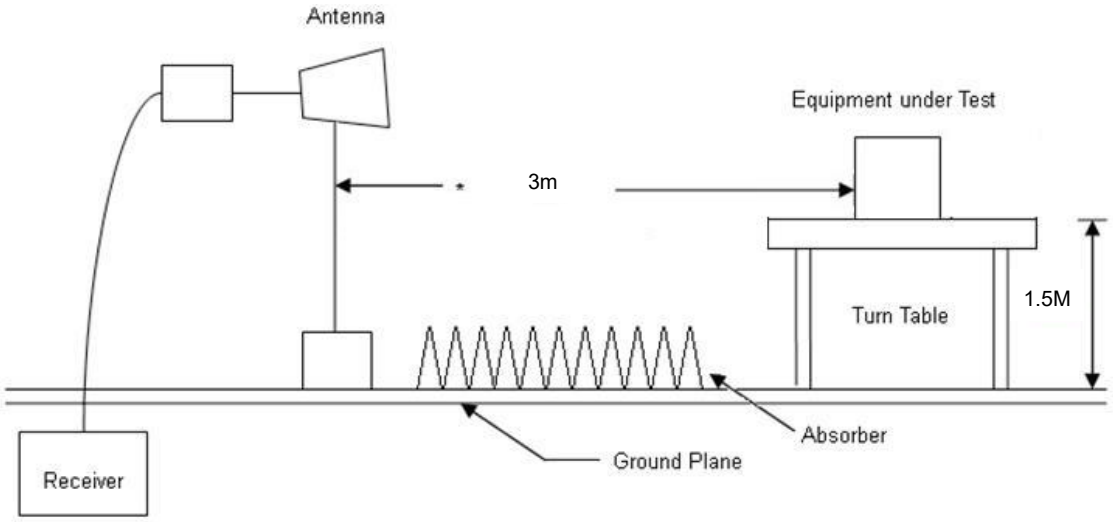
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



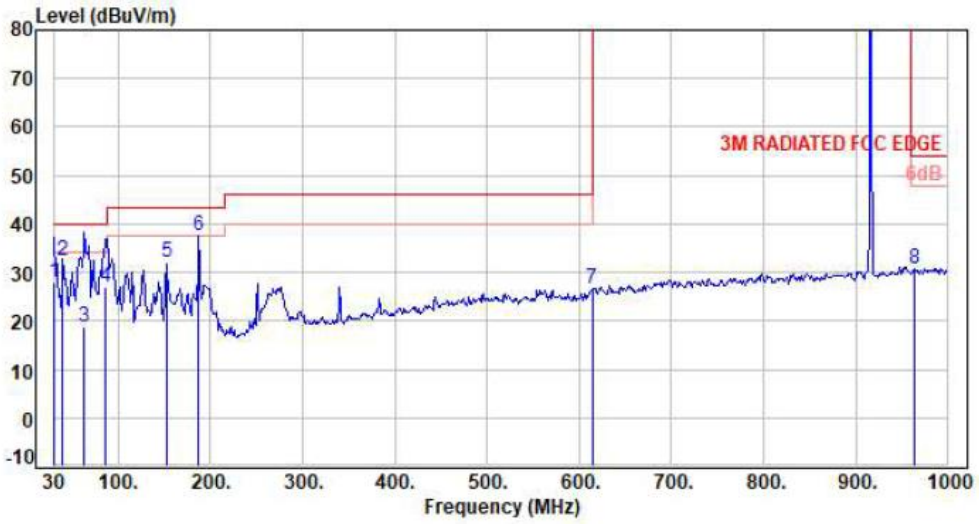
6.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

Test Mode	Mode 1

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

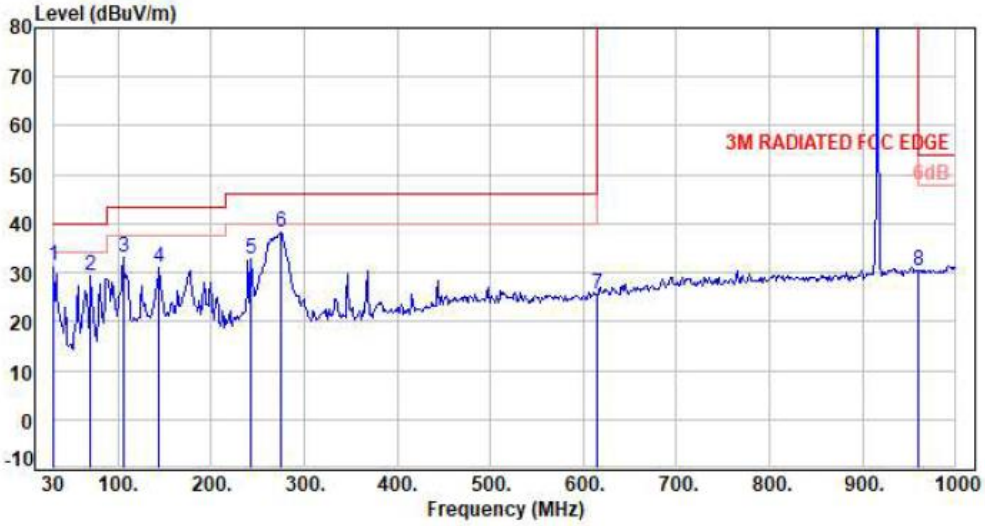


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.04	31.00	27.96	40.00	-12.04	QP	100	360	P
2	39.70	-10.05	42.42	32.37	40.00	-7.63	Peak	400	0	P
3	62.98	-15.52	34.20	18.68	40.00	-21.32	QP	100	186	P
4	86.26	-15.58	42.60	27.02	40.00	-12.98	QP	100	190	P
5	152.22	-9.91	41.99	32.08	43.50	-11.42	Peak	400	0	P
6	187.14	-11.06	48.51	37.45	43.50	-6.05	Peak	400	0	P
7	613.94	-2.03	28.58	26.55	46.00	-19.45	Peak	400	0	P
8	963.14	3.01	27.60	30.61	54.00	-23.39	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal

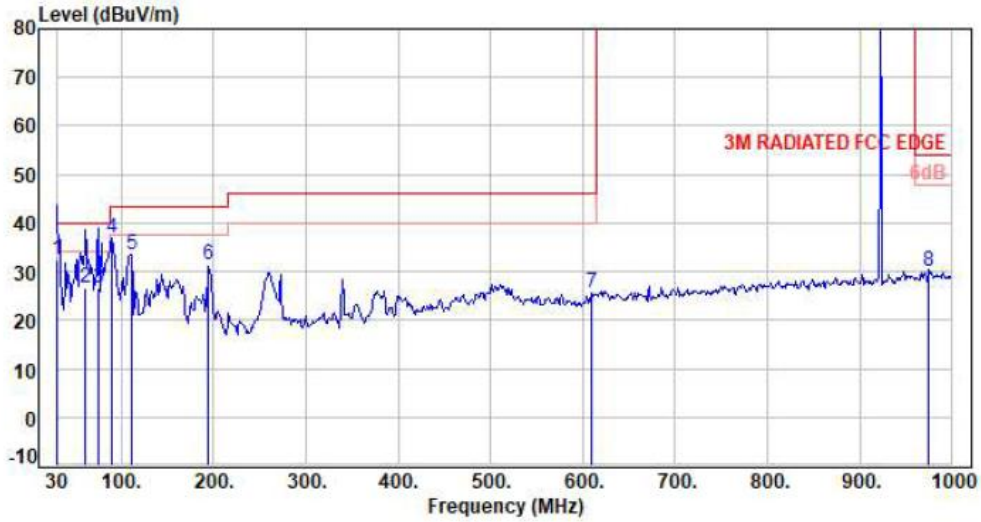


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.04	34.32	31.28	40.00	-8.72	Peak	400	0	P
2	70.74	-15.00	44.27	29.27	40.00	-10.73	Peak	400	0	P
3	105.66	-10.62	43.60	32.98	43.50	-10.52	Peak	400	0	P
4	144.46	-9.50	40.43	30.93	43.50	-12.57	Peak	400	0	P
5	243.40	-10.48	43.40	32.92	46.00	-13.08	Peak	400	0	P
6	274.44	-8.64	46.77	38.13	46.00	-7.87	Peak	400	0	P
7	614.91	-1.96	27.48	25.52	200.00	-174.48	Peak	400	0	P
8	960.23	3.00	27.28	30.28	54.00	-23.72	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

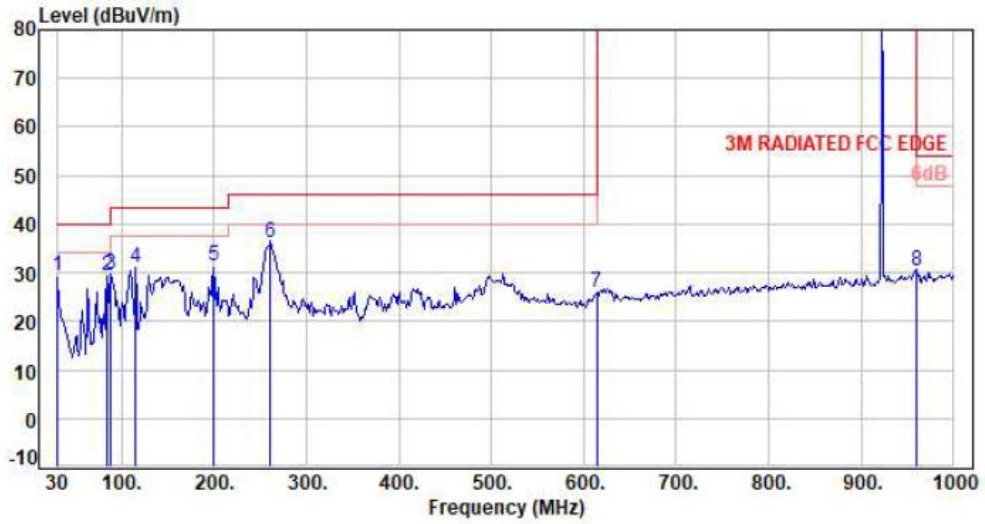


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.04	35.61	32.57	40.00	-7.43	QP	100	360	P
2	61.04	-15.66	42.16	26.50	40.00	-13.50	QP	100	185	P
3	74.62	-15.07	41.61	26.54	40.00	-13.46	QP	100	190	P
4	90.14	-15.09	51.92	36.83	43.50	-6.67	Peak	400	0	P
5	111.48	-9.59	43.06	33.47	43.50	-10.03	Peak	400	0	P
6	194.90	-10.16	41.43	31.27	43.50	-12.23	Peak	400	0	P
7	610.06	-2.36	27.95	25.59	46.00	-20.41	Peak	400	0	P
8	974.78	2.95	27.19	30.14	54.00	-23.86	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal

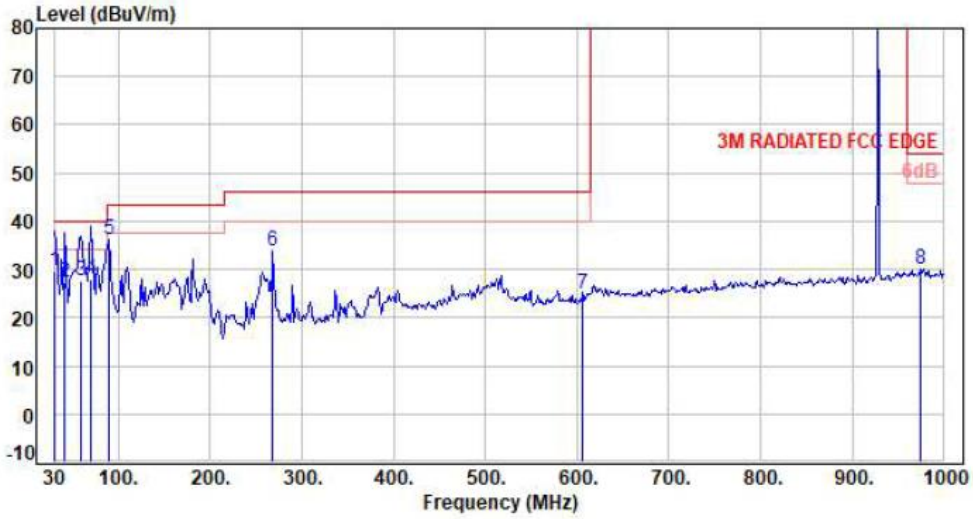


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.04	32.31	29.27	40.00	-10.73	Peak	400	0	P
2	84.32	-15.60	45.08	29.48	40.00	-10.52	Peak	400	0	P
3	88.20	-15.34	45.11	29.77	43.50	-13.73	Peak	400	0	P
4	115.36	-9.02	40.21	31.19	43.50	-12.31	Peak	400	0	P
5	198.78	-9.26	40.65	31.39	43.50	-12.11	Peak	400	0	P
6	260.86	-9.88	46.15	36.27	46.00	-9.73	Peak	400	0	P
7	613.94	-2.03	28.03	26.00	46.00	-20.00	Peak	400	0	P
8	959.26	2.98	27.53	30.51	200.00	-169.49	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

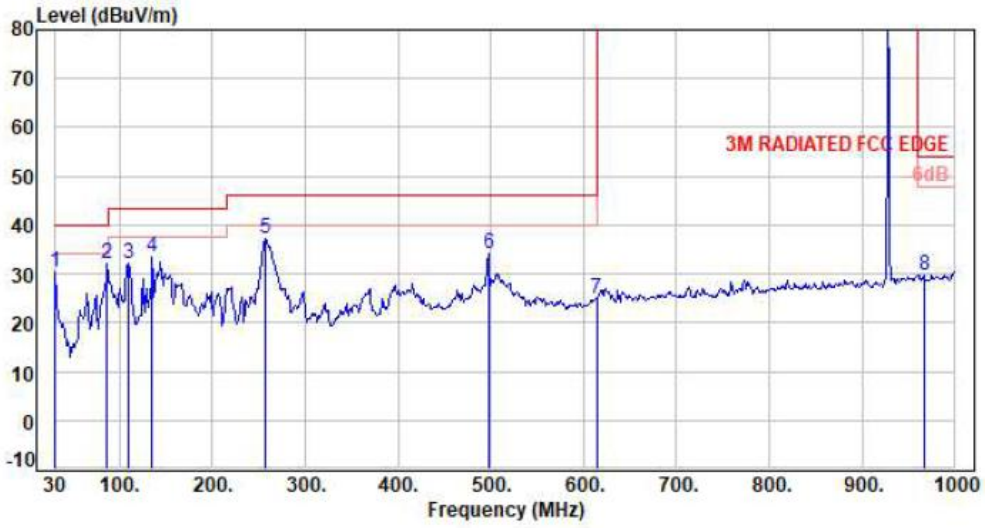


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.04	32.61	29.57	40.00	-10.43	QP	100	360	P
2	41.64	-11.34	38.61	27.27	40.00	-12.73	QP	100	225	P
3	59.10	-15.89	43.62	27.73	40.00	-12.27	QP	100	188	P
4	70.74	-15.00	42.92	27.92	40.00	-12.08	QP	100	162	P
5	90.14	-15.09	51.17	36.08	43.50	-7.42	Peak	400	0	P
6	268.62	-8.89	42.80	33.91	46.00	-12.09	Peak	400	0	P
7	606.18	-2.68	27.73	25.05	46.00	-20.95	Peak	400	0	P
8	974.78	2.95	26.95	29.90	54.00	-24.10	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal



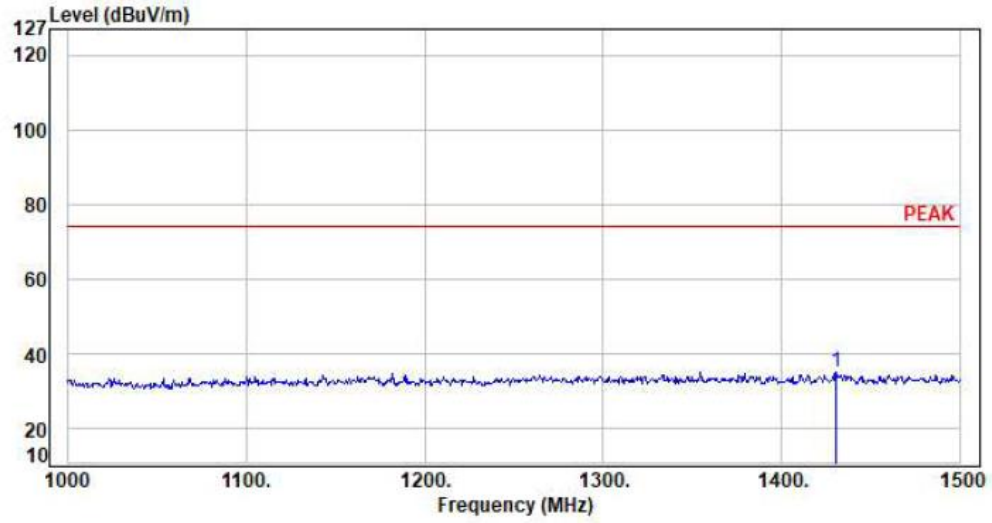
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.04	33.38	30.34	40.00	-9.66	Peak	400	0	P
2	86.26	-15.58	47.75	32.17	40.00	-7.83	Peak	400	0	P
3	109.54	-9.83	41.98	32.15	43.50	-11.35	Peak	400	0	P
4	134.76	-8.71	42.30	33.59	43.50	-9.91	Peak	400	0	P
5	256.98	-10.31	47.40	37.09	46.00	-8.91	Peak	400	0	P
6	497.54	-3.54	37.75	34.21	46.00	-11.79	Peak	400	0	P
7	613.94	-2.03	26.83	24.80	46.00	-21.20	Peak	400	0	P
8	967.02	2.98	26.74	29.72	54.00	-24.28	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.6 Test Result and Data (1GHz ~ 1.5GHz)

Test Mode	Mode 1

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

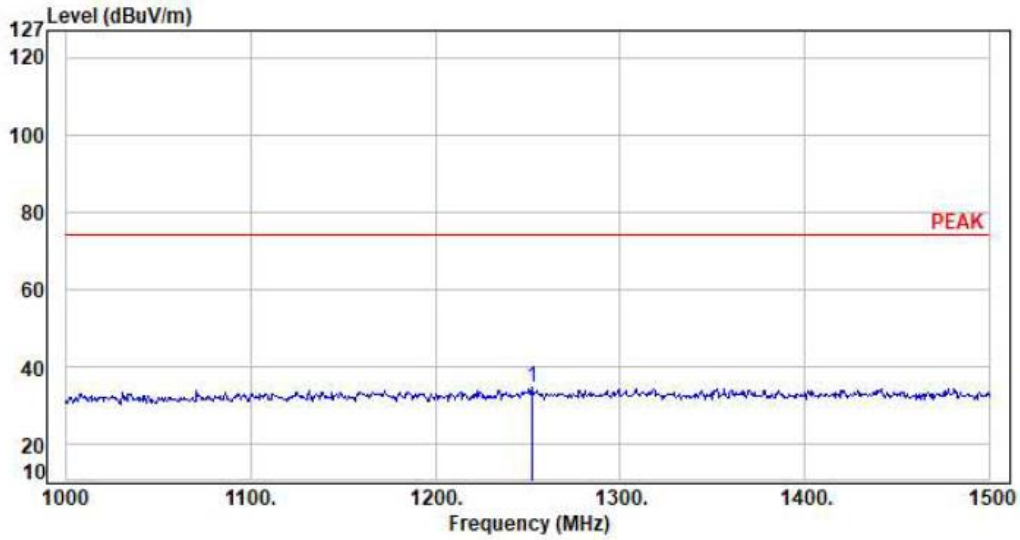


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1430.50	-9.45	44.20	34.75	74.00	-39.25	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal

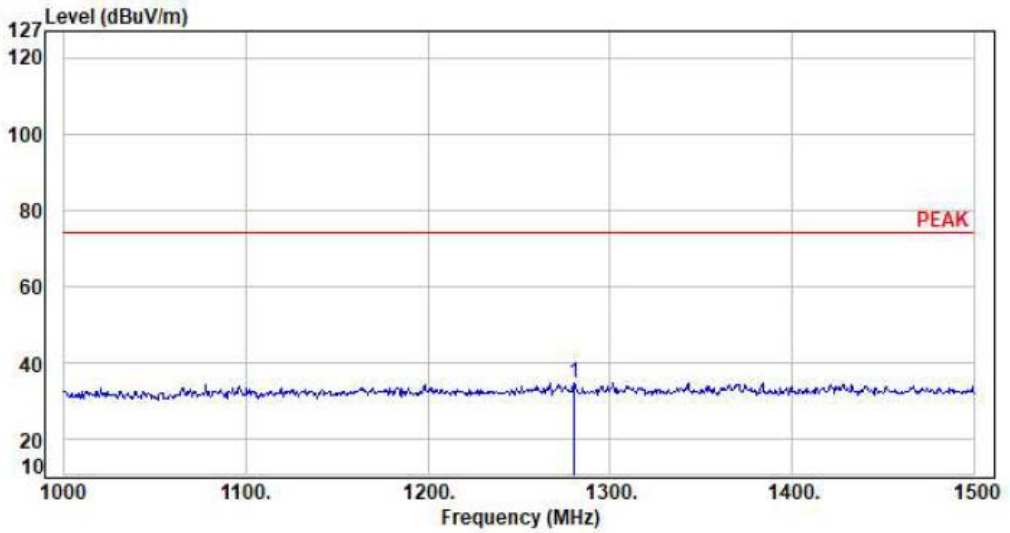


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1252.00	-9.67	44.31	34.64	74.00	-39.36	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

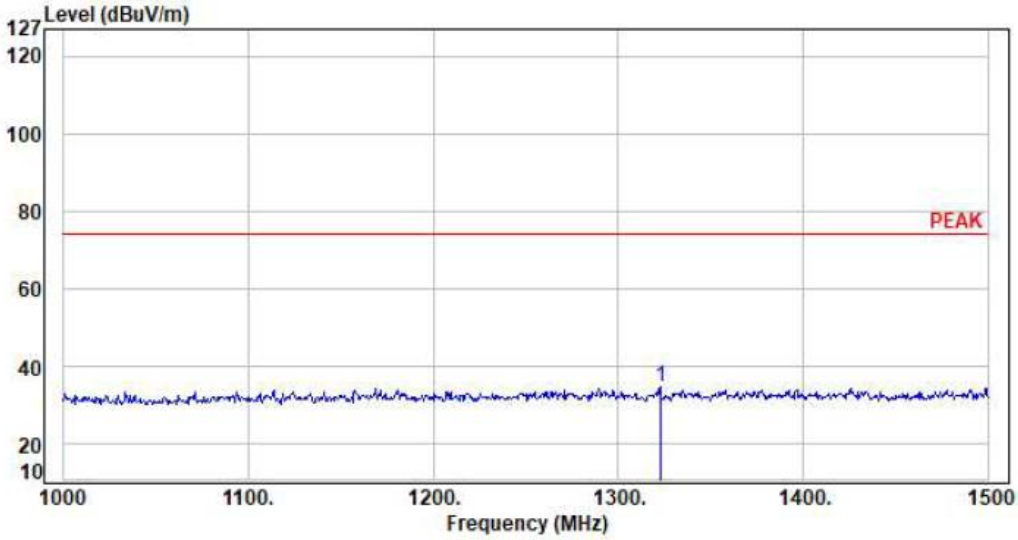


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1280.50	-9.51	43.99	34.48	74.00	-39.52	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal

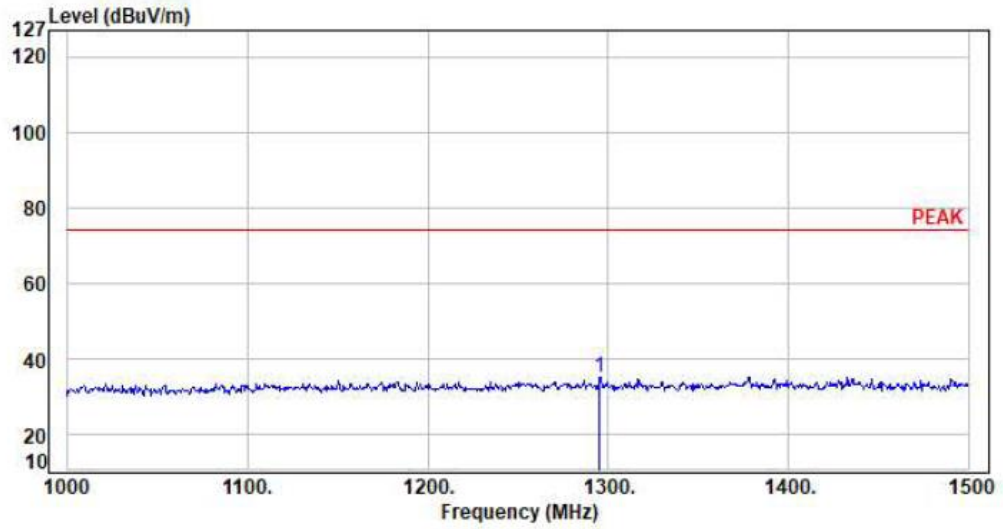


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1322.50	-9.62	44.13	34.51	74.00	-39.49	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

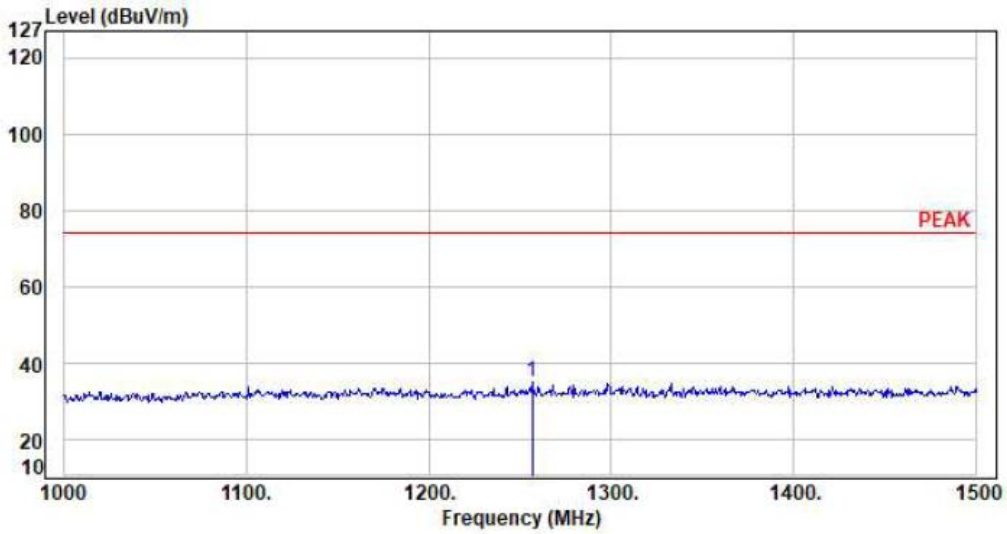


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1295.00	-9.46	44.56	35.10	74.00	-38.90	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal



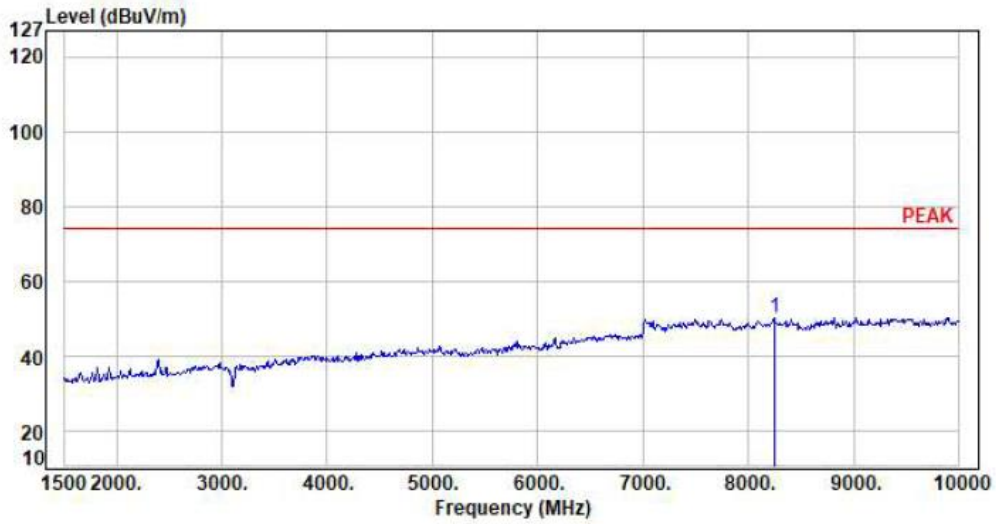
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1256.50	-9.64	44.53	34.89	74.00	-39.11	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.7 Test Result and Data (1.5GHz ~ 10GHz)

Test Mode	Mode 1

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

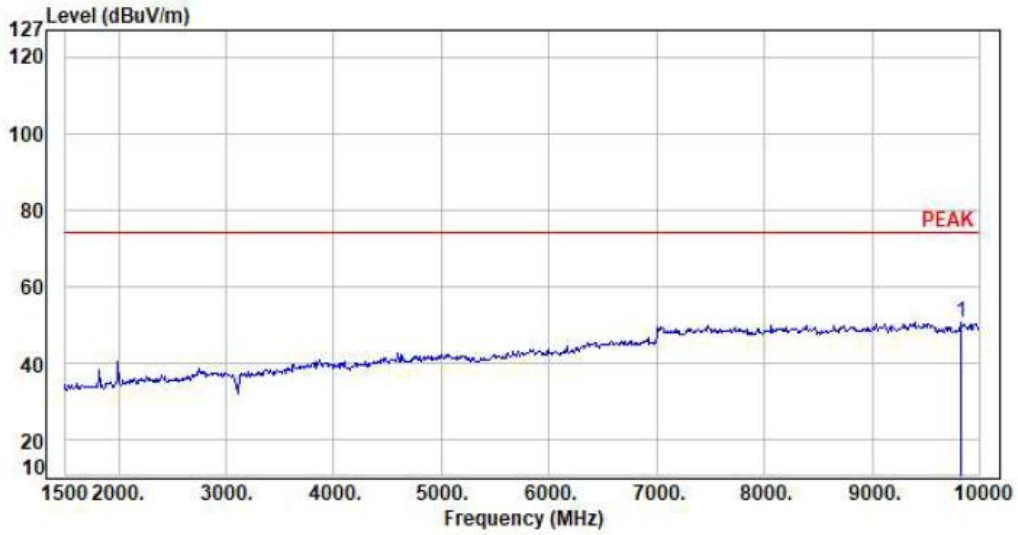


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	8240.50	3.88	46.21	50.09	74.00	-23.91	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 915.2MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal

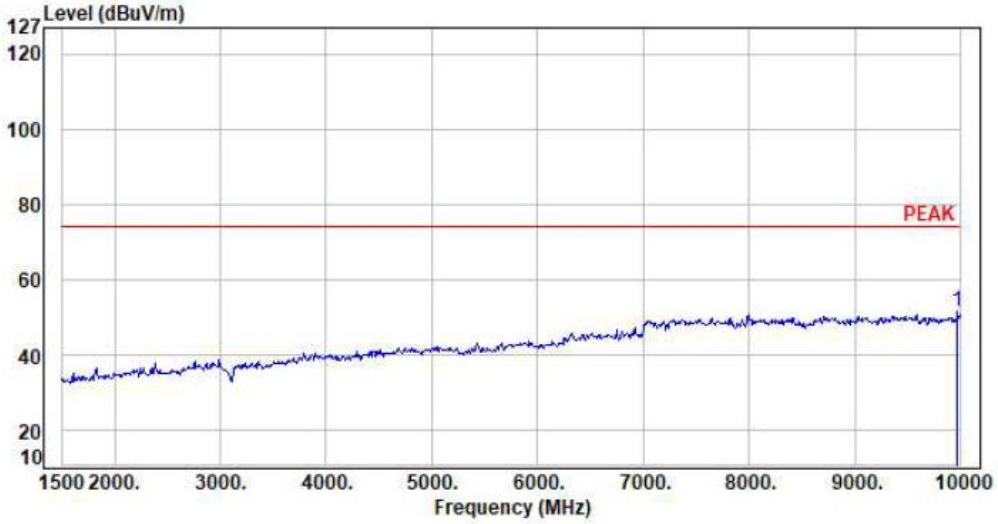


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	9830.00	3.46	47.00	50.46	74.00	-23.54	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

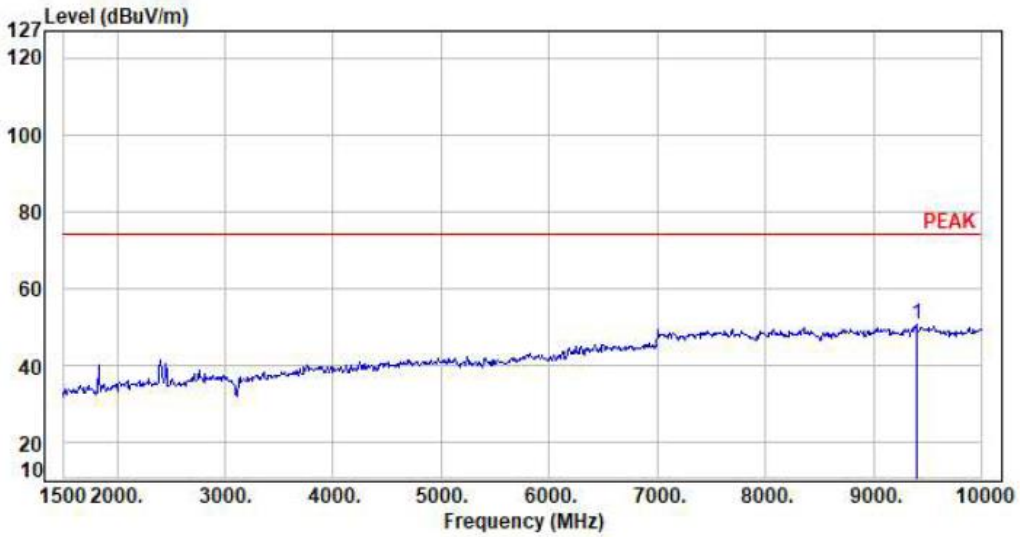


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	9966.00	3.28	47.97	51.25	74.00	-22.75	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 921.6MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal

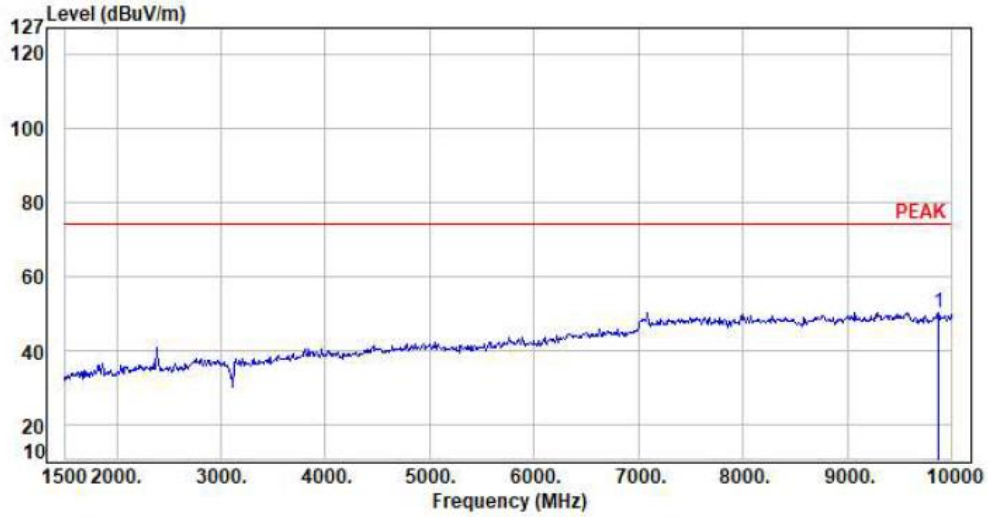


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	9396.50	3.42	47.24	50.66	74.00	-23.34	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Vertical

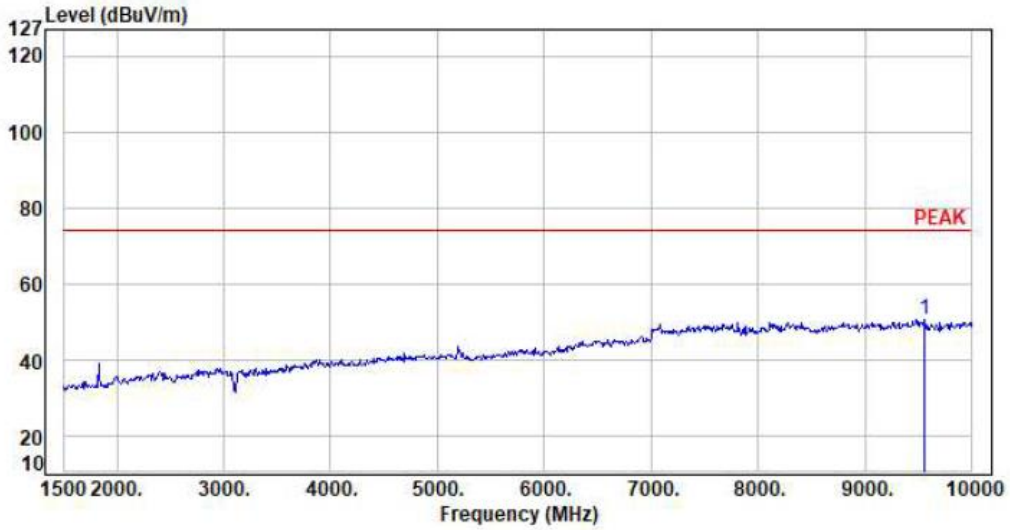


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	9864.00	3.44	46.74	50.18	74.00	-23.82	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode	Mode 1

Test Mode : LORA 1TX 927.8MHz
Voltage : DC 12V/1A From Power Supply(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	9558.00	3.37	47.27	50.64	74.00	-23.36	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.8 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

7. Test of Spurious Emission (Conducted)

7.1 Test Limit

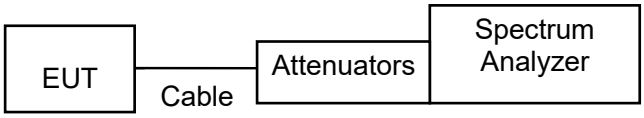
According to the methods defined in ANSI C63.10-2020 Section 11.11.1
Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

7.2 Test Procedure

According to the methods defined in ANSI C63.10-2020 Section 11.11.2 & 11.11.3

a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
b. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with convenient frequency span including 100kHz bandwidth from band edge.
c. The band edges was measured and recorded.

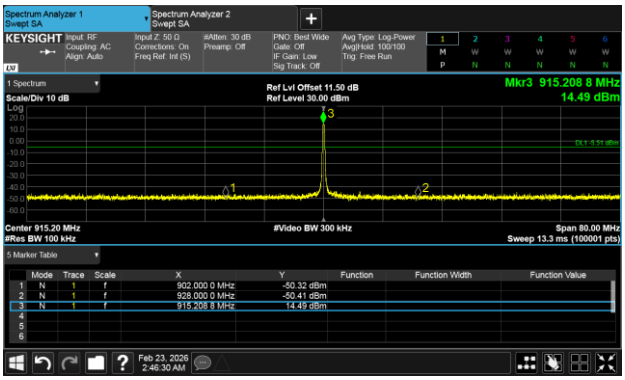
7.3 Test Setup Layout



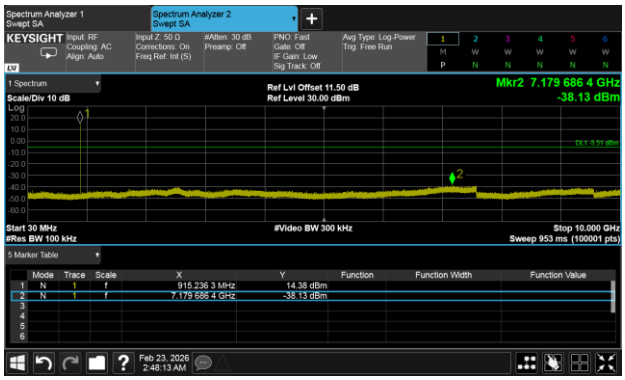
7.4 Test Result and Data

Note: Test plots refer to the following pages.

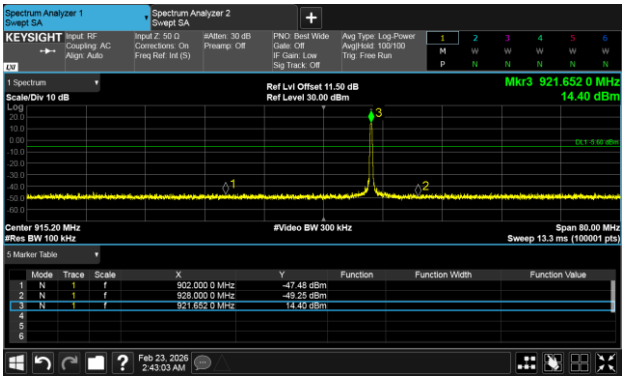
CH00



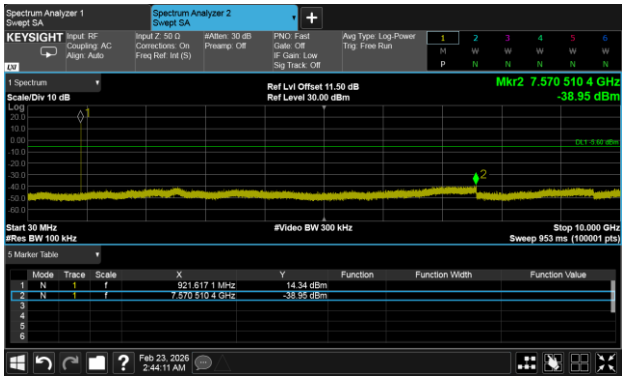
CH00



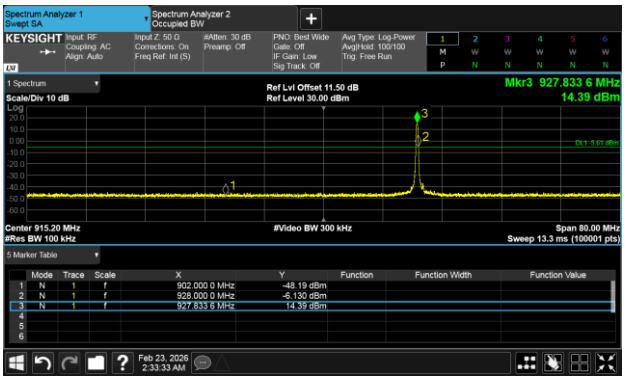
CH32



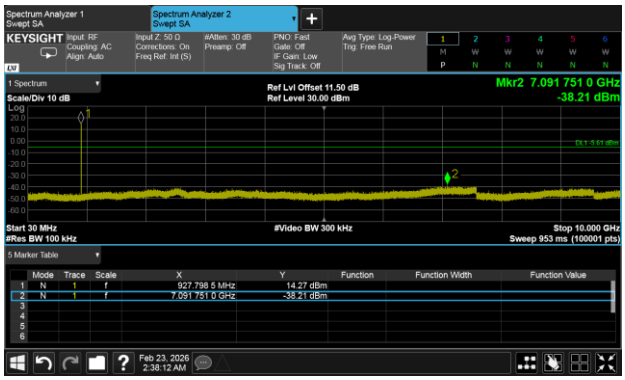
CH32



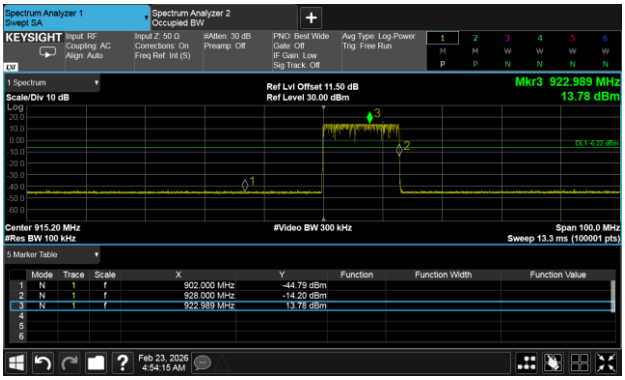
CH63

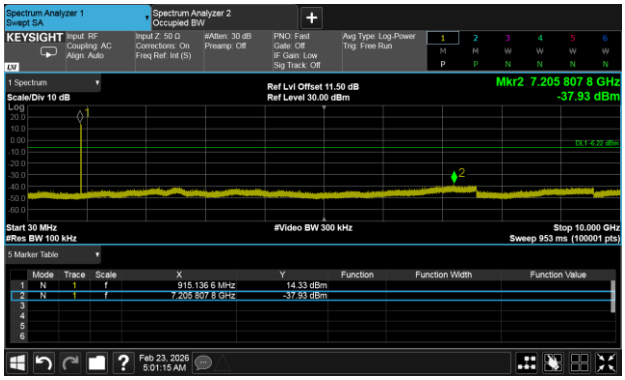


CH63



Hopping


Spectrum Analyzer 1
Swept SA
Spectrum Analyzer 2
Occupied BW
KEYSIGHT
1 Spectrum
Ref Lvl Offset 11.50 dB
Ref Level 30.00 dBm
Mkr3 922.989 MHz
13.78 dBm
Scale/Div 10 dB
Center 915.20 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 100.0 MHz
Sweep 13.3 ms (100001 pts)
5 Marker Table
1 N 1 f 902.000 MHz -44.79 dBm
2 N 1 f 928.000 MHz -14.20 dBm
3 N 1 f 922.989 MHz 13.78 dBm
Feb 23, 2026
4:54:15 AM


Spectrum Analyzer 1
Swept SA
Spectrum Analyzer 2
Occupied BW
KEYSIGHT
1 Spectrum
Ref Lvl Offset 11.50 dB
Ref Level 30.00 dBm
Mkr2 7.205 807 8 GHz
-37.93 dBm
Scale/Div 10 dB
Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 10.000 GHz
Sweep 953 ms (100001 pts)
5 Marker Table
1 N 1 f 915.136 6 MHz 14.33 dBm
2 N 1 f 7.205 807 8 GHz -37.93 dBm
Feb 23, 2026
5:01:15 AM

8. 20dB Bandwidth Measurement Data

8.1 Test Limit

The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

8.2 Test Procedures

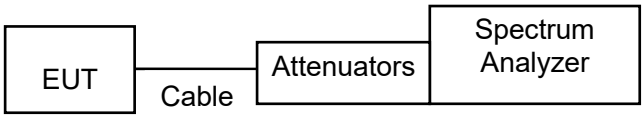
According to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024 Section 6.9

a. The transmitter output was connected to the spectrum analyzer.

b. Set RBW of spectrum analyzer to 3kHz and VBW to 10kHz.

c. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

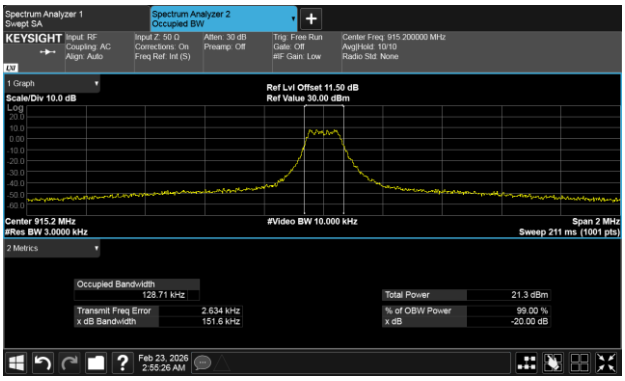
8.3 Test Setup Layout



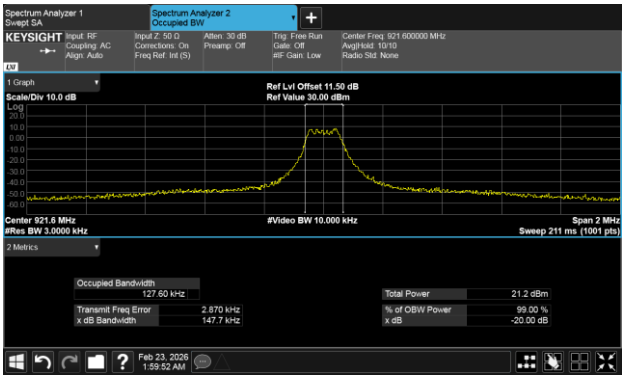
8.4 Test Result and Data

Modulation Type	Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
GFSK	0	915.2	0.152	0.500
	32	921.6	0.148	0.500
	63	927.8	0.151	0.500

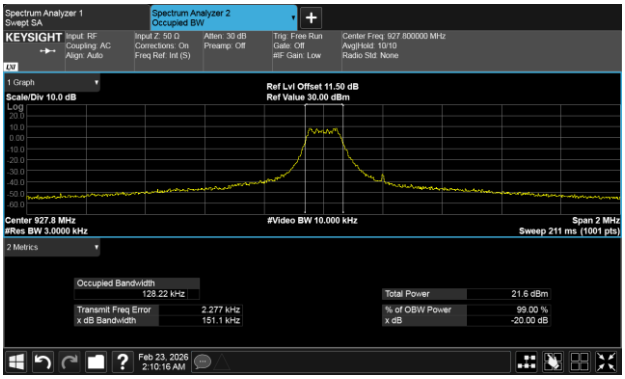
CH00



CH32



CH63



9. Frequencies Separation

9.1 Test Limit

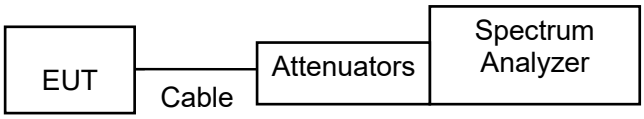
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024 Section 7.8.2

a. The transmitter output was connected to the spectrum analyzer.
b. Set RBW of spectrum analyzer to 30kHz and VBW to 100kHz.
c. By using the MaxHold function record the separation of two adjacent channels.
d. Measure the frequency difference of these two adjacent channels.

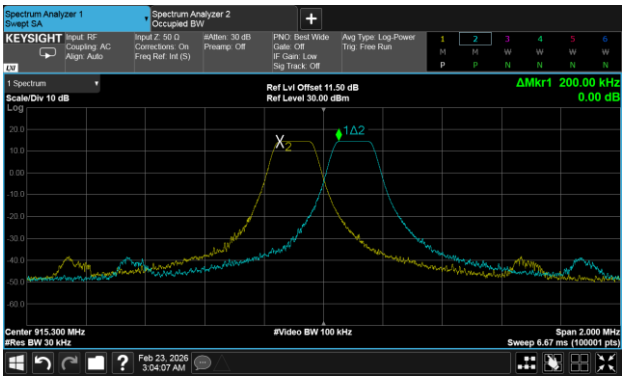
9.3 Test Setup Layout



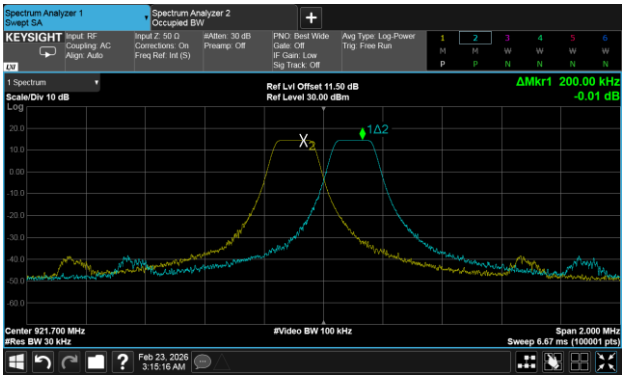
9.4 Test Result and Data

Modulation Type	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
GFSK	0	915.2	0.20	0.1516
	32	921.6	0.20	0.1477
	63	927.8	0.20	0.1511

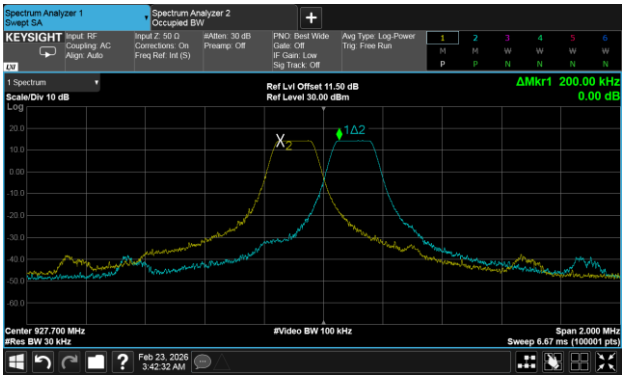
CH00



CH32



CH63



10. Dwell Time on each channel

10.1 Test Limit

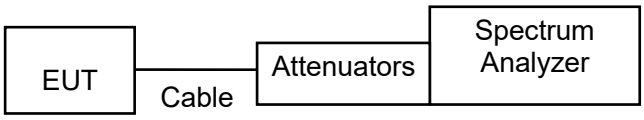
For frequency hopping systems operating in the 902-928 MHz band:
if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period;
if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

10.2 Test Procedures

According to the methods defined in ANSI C63.10-2020 Section 7.8.4

1. The transmitter output was connected to the spectrum analyzer.
2. Adjust the center frequency to measure frequency, then set zero span mode.
2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.
4. Measure the time duration of one transmission on the measured frequency.

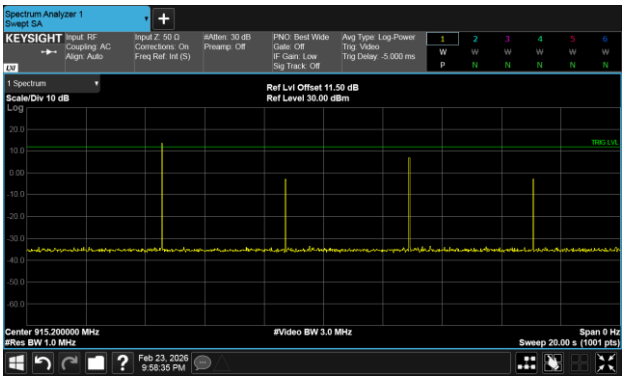
10.3 Test Setup Layout



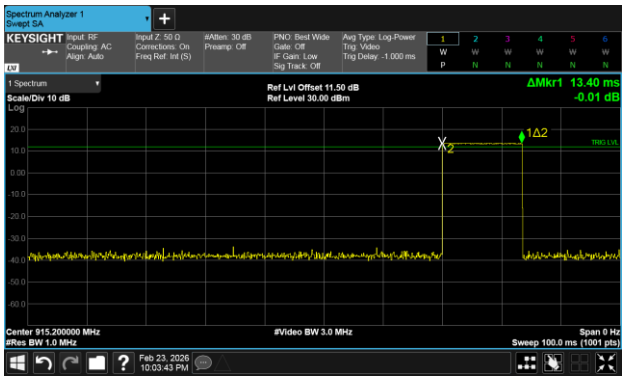
10.4 Test Result and Data

Channel	Frequency (MHz)	Length of transmission time (ms)	Number of transmission in a 20 sec	Dwell Time(ms)	Limit (ms)
0	915.2	13.400	1.00	13.40	400
32	921.6	13.400	1.00	13.40	400
63	927.8	13.500	1.00	13.50	400

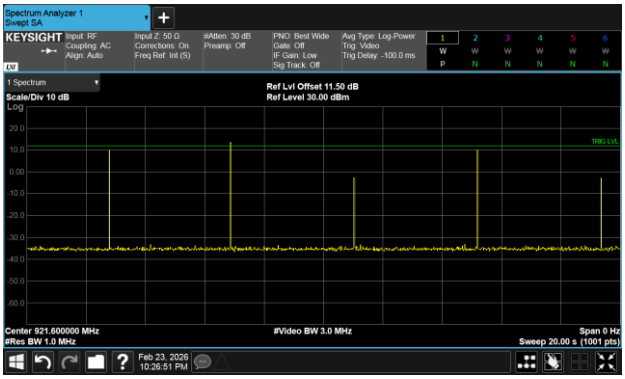
CH00



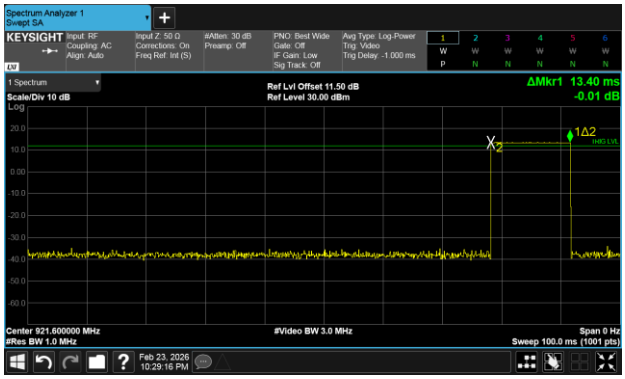
CH00



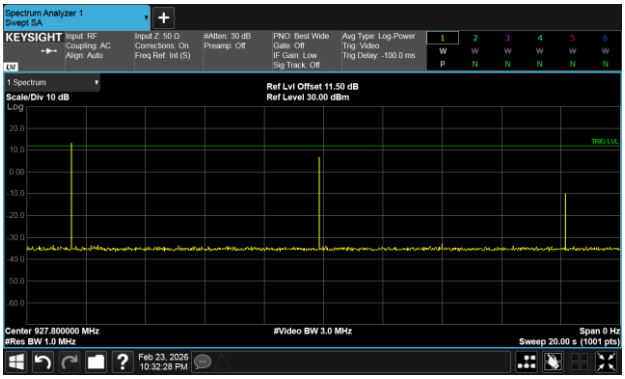
CH32



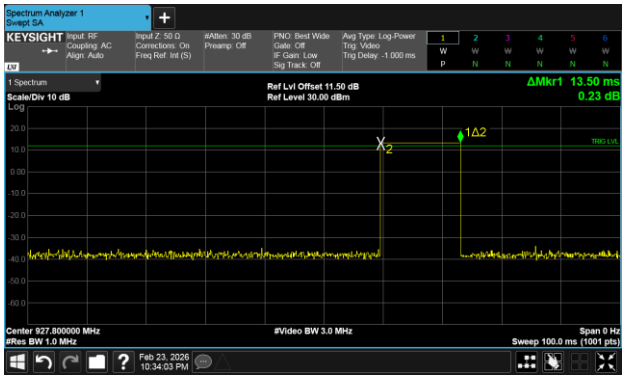
CH32



CH63



CH63



11. Number of Hopping Channels

11.1 Test Limit

For frequency hopping systems operating in the 902-928 MHz band:
if the 20dB bandwidth of the hopping channel is less than 250kHz, the system shall use at least 50 hopping frequencies

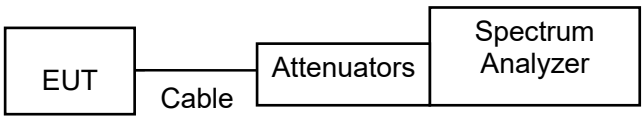
if the 20dB bandwidth of the hopping channel is 250kHz or greater, the system shall use at least 25 hopping frequencies

11.2 Test Procedures

According to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024 Section 7.8.3

a. The transmitter output was connected to the spectrum analyzer.
b. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.
c. Set the MaxHold function, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been record.

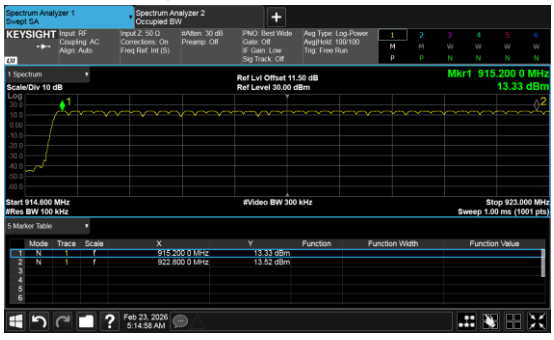
11.3 Test Setup Layout



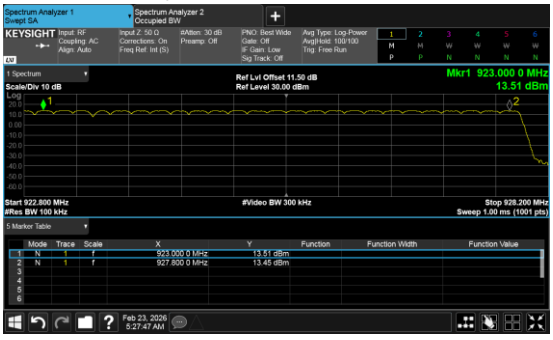
11.4 Test Result and Data

Modulation Type	Hopping Channels	Limit
GFSK	64	50

Modulation Type: GFSK



Modulation Type: GFSK



12. Maximum Peak Output Power

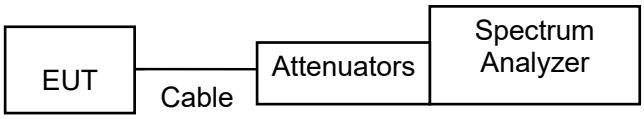
12.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

12.2 Test Procedures

According to the methods defined in ANSI C63.10-2020 Section 7.8.5
The antenna port（RF output）of the EUT was connected to the input（RF input）of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

12.3 Test Setup Layout



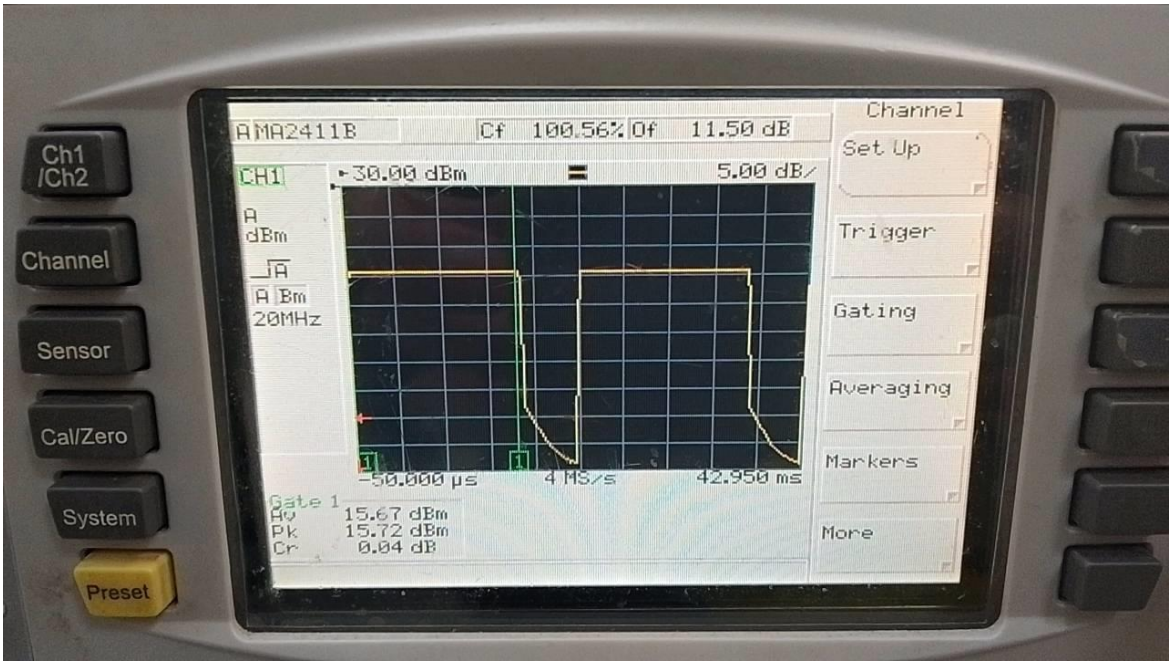
12.4 Test Result and Data

Setting	Modulation Type	Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Limit (dBm)
15	GFSK	0	915.2	15.72	37.325	30.000
15		32	921.6	15.68	36.983	30.000
15		63	927.8	15.65	36.728	30.000

Setting	Modulation Type	Channel	Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)	Power Limit (dBm)
15	GFSK	0	915.2	15.67	36.898	N/A
15		32	921.6	15.64	36.644	N/A
15		63	927.8	15.61	36.392	N/A

*Average power is for reference only.

- Gate setup plot:



----------THE END OF REPORT----------