TEST REPORT

of

FCC Part 15 Subpart C §15.209 and §15.231

FCC ID: 2ABE3SP9

Equipment Under Test	:	Portable Transceiver
Model Name	:	SP9-100
Variant Model Name(s)	:	Refer to page 3
Applicant	:	SOLT CO., LTD
Manufacturer	:	SOLT CO., LTD
Date of Receipt	:	2025.04.18
Date of Test(s)	:	2025.05.08 ~ 2025.06.23
Date of Issue	:	2025.06.30

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

1) The results of this test report are effective only to the items tested.
2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.
We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by: Finn Nam

Technical Manager: Jinhyung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)
- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil. Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

Telephone : +82 31 688 0901
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1.2. Details of Applicant

Applicant : SOLT CO., LTD
Address : 1106, 1107, 1108, Dongtan M tower, 51-9, Dongtancheomdansaneop 1-ro, Hwaseong-si, Gyeonggi-do, Republic of Korea

1.3. Details of Manufacturer

Company : Same as applicant
Address : Same as applicant

1.4. Description of EUT

Kind of Product	Portable Transceiver
Model Name	SP9-100
Variant Model Names	SP9-200, SP9-300
Serial Number	F01P00001
Power Supply	DC 3.7 V
Frequency Range	433.10 ㎒ ~ 434.70 ㎒
Modulation Type	FSK
Number of Channel	11
Antenna Type	Helical Antenna
Antenna Gain※	-2.96 ㏈i
H/W Version	V1.4
S/W Version	V1.0

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Due	Cal. Interval
Signal Generator	R&S	SMBV100A	255834	12/06/2025	Annual
Spectrum Analyzer	R&S	FSV30	101004	12/18/2025	Annual
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual
DC Power Supply	Agilent	U8002A	MY54110041	09/19/2025	Annual
Attenuator	MCLI	FAS-12-10	A2	06/10/2026	Annual
Preamplifier	H.P.	8447F	2944A03909	08/09/2025	Annual
Signal Conditioning Unit	R&S	SCU-18F	101058	02/27/2026	Annual
EMI Test Receiver	R&S	ESU26	100109	01/13/2026	Annual
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	7	02/24/2026	Annual
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	03/25/2027	Biennial
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	01126	03/05/2027	Biennial
Horn Antenna	R&S	HF906	100326	02/24/2026	Annual
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/3833 0516/L	N.C.R.	N/A
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/3833 0516/L	N.C.R.	N/A
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	10/08/2025	Semi-Annual
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	10/08/2025	Semi-Annual
Coaxial Cable	RFONE	PL360P-292M292M-1.5M-A	20200324002	10/11/2025	Semi-Annual
Test Receiver	R&S	ESCI7	100911	02/27/2026	Annual
Two-Line V-Network	R&S	ENV216	100190	06/05/2026	Annual
Shield Room	SY Corporation	L × W × H (6.5 m × 3.5 m × 3.5 m)	N/A	N.C.R.	N/A

Note;

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 subpart C §15.209 and §15.231		
Section in FCC	**Test Item(s)**	**Result**
15.209(a) 15.231(b)	Radiated emission, Spurious Emission and Field Strength of Fundamental	Pass
15.231(c)	Bandwidth of Operation Frequency	Pass
-	Occupied Bandwidth	Pass
15.231(a)	Transmission Time	Pass
15.207	AC Power Line Conducted Emission	Pass

1.7. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
Bandwidth of Operation Frequency	1.18 ㎑	
Transmission Time	0.48 ㎳	
AC Conducted Emission	3.00 ㏈	
Radiated Emission, 9 ㎑ to 30 ㎒	H	3.40 ㏈
	V	3.40 ㏈
Radiated Emission, below 1 ㎓	H	4.60 ㏈
	V	5.00 ㏈
Radiated Emission, above 1 ㎓	H	3.60 ㏈
	V	3.60 ㏈

All measurement uncertainty values are shown with a coverage factor of *k*=2 to indicate a 95 % level of confidence.

1.8. Information of software for test

- Operating software of EUT has integrated test interface. No additional software was used.

1.9. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL006140	2025.06.30	Initial

1.10. Information of Variant Models

Model Name	Description
SP9-100	- Basic Model, which is a watch type.
SP9-200	- Same as the basic model, The only difference is a belt clip type.
SP9-300	- Same as the basic model, The only difference is a pocket clip type.

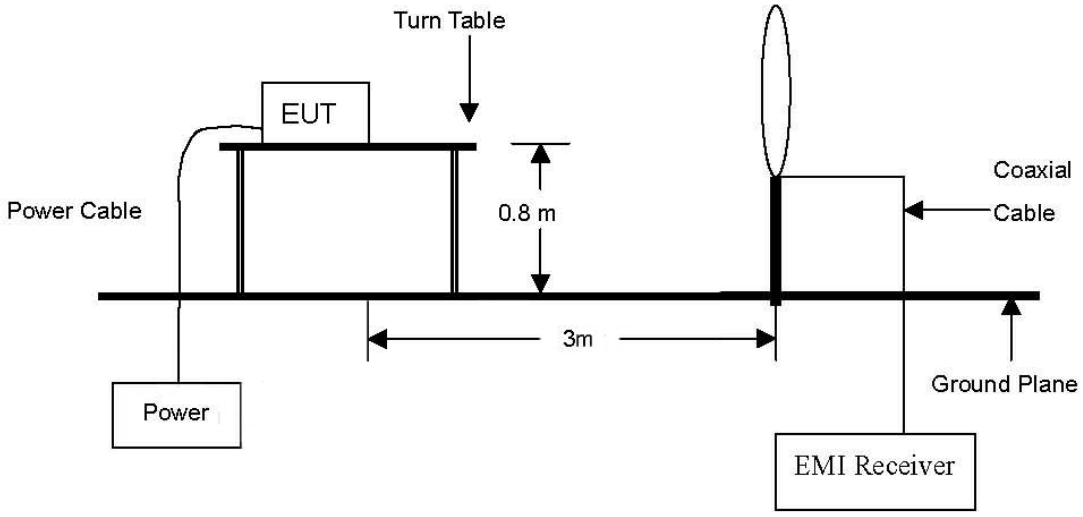
Note;

All the test was performed with basic model.

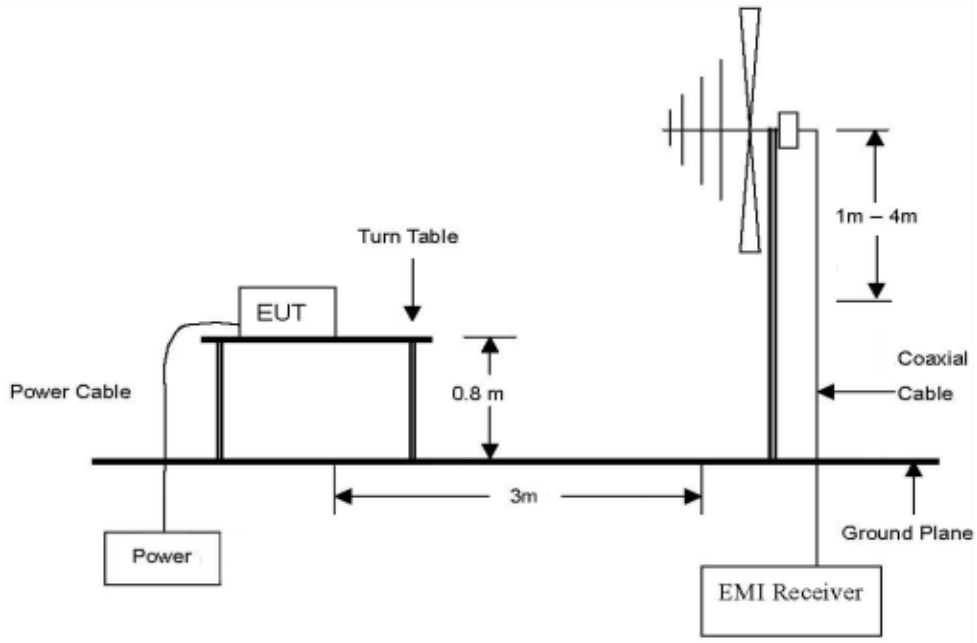
2. Field Strength of Fundamental and Spurious Emission

2.1. Test Setup

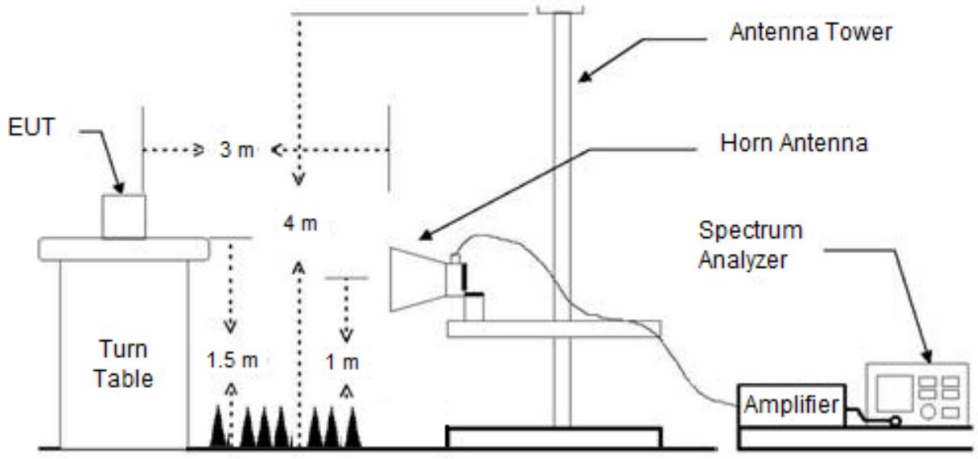
The diagram below shows the test setup that is utilized to make the measurements for emission below 30 ㎒.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓.



The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated form 1 ㎓ to the 10th harmonic of the highest fundamental frequency or 40 ㎓, whichever is lower.



2.2. Limit

2.2.1. Radiated Emission Limits; general requirements.

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (㎒)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2 400/F(㎑)	300
0.490-1.705	24 000/F(㎑)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 ㎒, 76-88 ㎒, 174-216 ㎒ or 470-806 ㎒. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

2.2.2. Periodic Operation in the band 40.66-40.70 ㎒ and above 70 ㎒.

According to §15.231(b), in addition to the provisions of Section §15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency (㎒)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	[1]1,250 to 3,750	[1]125 to 375
174-260	3,750	375
260-470	[1]3,750 to 12,500	[1]375 to 1,250
Above 470	12,500	1,250

[1]linear interpolations

Where F is the frequency in ㎒, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 ㎒, ㎶/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 ㎒, ㎶/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 ㏈ below the maximum permitted fundamental level.

2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates in ANSI C63.10-2013.

2.3.1. Test Procedures for emission below 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site below 1 ㎓ and 1.5 meters above the ground at a 3 meter anechoic chamber test site above 1 ㎓. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 ㎓, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 ㎓, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. For measurements below 1 ㎓ resolution bandwidth is set to 100 ㎑ for peak detection measurements or 120 ㎑ for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements Above 1 ㎓ resolution bandwidth is set to 1 ㎒, the video bandwidth is set to 3 ㎒ for peak measurements and as applicable for average measurements.

Note;

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z described in the test setup photo. All radiated testing of EUT was performed with worst case axis.

2.4. Test Result

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

2.4.1. Field Strength of Fundamental

All emissions tested both horizontal and vertical. The following table shows the highest levels of radiated emissions on the worst polarization.

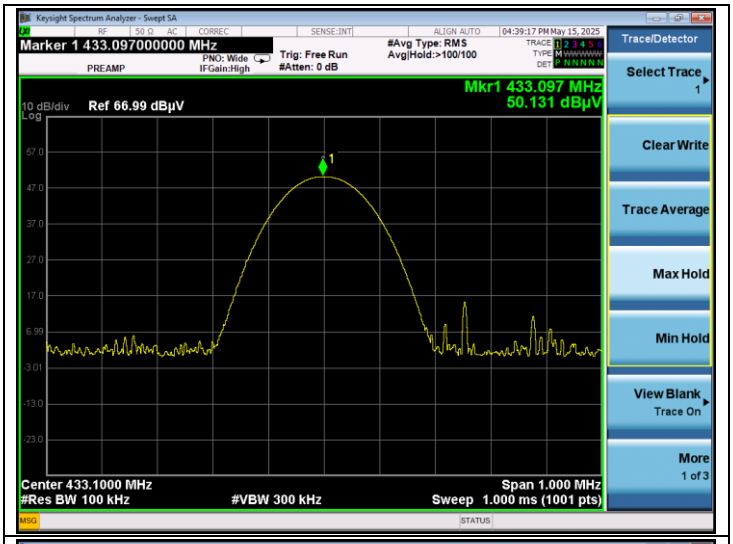
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Ant. Pol.	AF (dB/m)	CL (dB)	DF (dB)	Result (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
Low Channel (433.10 ㎒)									
433.10	50.13	Peak	H	22.26	3.05	-	75.44	100.80	25.36
433.10	-	Average	-	-	-	0.00	75.44	80.80	5.36
High Channel (434.70 ㎒)									
434.70	51.43	Peak	H	22.30	3.05	-	76.78	100.85	24.07
434.70	-	Average	-	-	-	0.00	76.78	80.85	4.07

Remark;

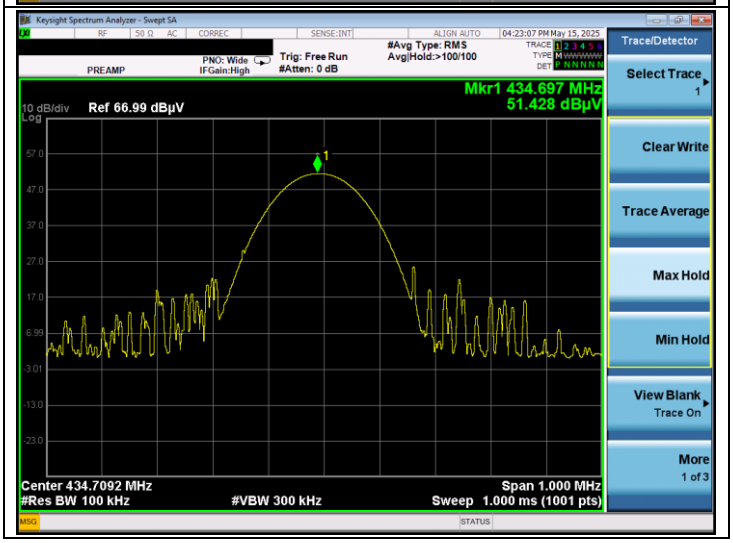
1. To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes (X, Y, Z). Worst orthogonal plan of EUT is **X – axis**.
   Definition of DUT for three orthogonal planes is described in the test setup photos.
2. 3 m Limit (dB㎶/m) = 20log [41.67($F_{(㎒)}$) - 7083]
3. Peak Result = Reading + Antenna Factor + Cable Loss
4. Average Result = Peak Result + DF
5. DF (Duty Cycle Correction Factor): 20log (T_{on} / 100 ㎳) = 20log (100 / 100) = 0.00
   - T_{on} = 100 ㎳. (T_{on} > 100 ㎳. Use 100 ㎳ for calculation)
   - T_{on+off} = 100 ㎳. (T_{on+off} > 100 ㎳. Use 100 ㎳ for calculation)
6. According to to §15.31(m), since the device operates over a frequency band wider than 1 ㎒ but not exceeding 10 ㎒ (433.10 ㎒ to 434.70 ㎒), testing was performed at two frequencies.

- Test plots

Low Channel



High Channel



2.4.2. Radiated Spurious Emission below 1 000 ㎒

The frequency spectrum from 9 ㎑ to 1 000 ㎒ was investigated.

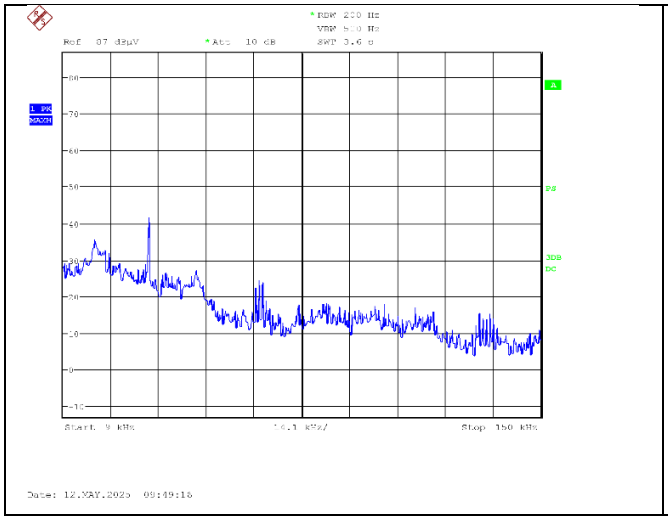
Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.		Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
39.22	41.91	Quasi - Peak	V	-8.23	33.68	60.85	27.17
59.75	43.90	Quasi - Peak	V	-11.84	32.06	60.85	28.79
133.31	39.49	Quasi - Peak	V	-12.01	27.48	60.85	33.37
151.68	38.15	Quasi - Peak	V	-9.62	28.53	60.85	32.32
377.58	28.66	Quasi - Peak	H	-6.66	22.00	60.85	38.85
639.97	32.79	Quasi - Peak	H	1.98	**34.77**	60.85	26.08
Above 700.00	Not detected	-	-	-	-	-	

Remark;

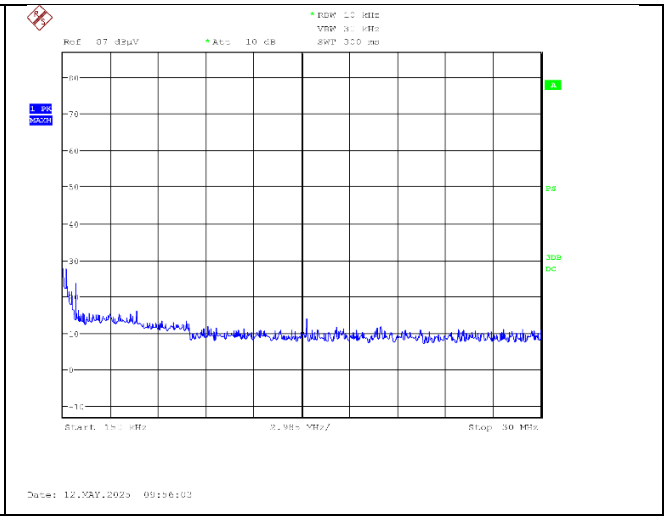
1. Spurious emissions for all channels were investigated and almost the same below 1 ㎓.
2. Test from 30 ㎒ to 1 000 ㎒ was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **High channel** as worst case among other channels.
4. Radiated spurious emission measurement as below.
   (Actual = Reading + Correction)
   (Correction = Antenna Factor + AMP Factor + Cable Loss)

- Test plots

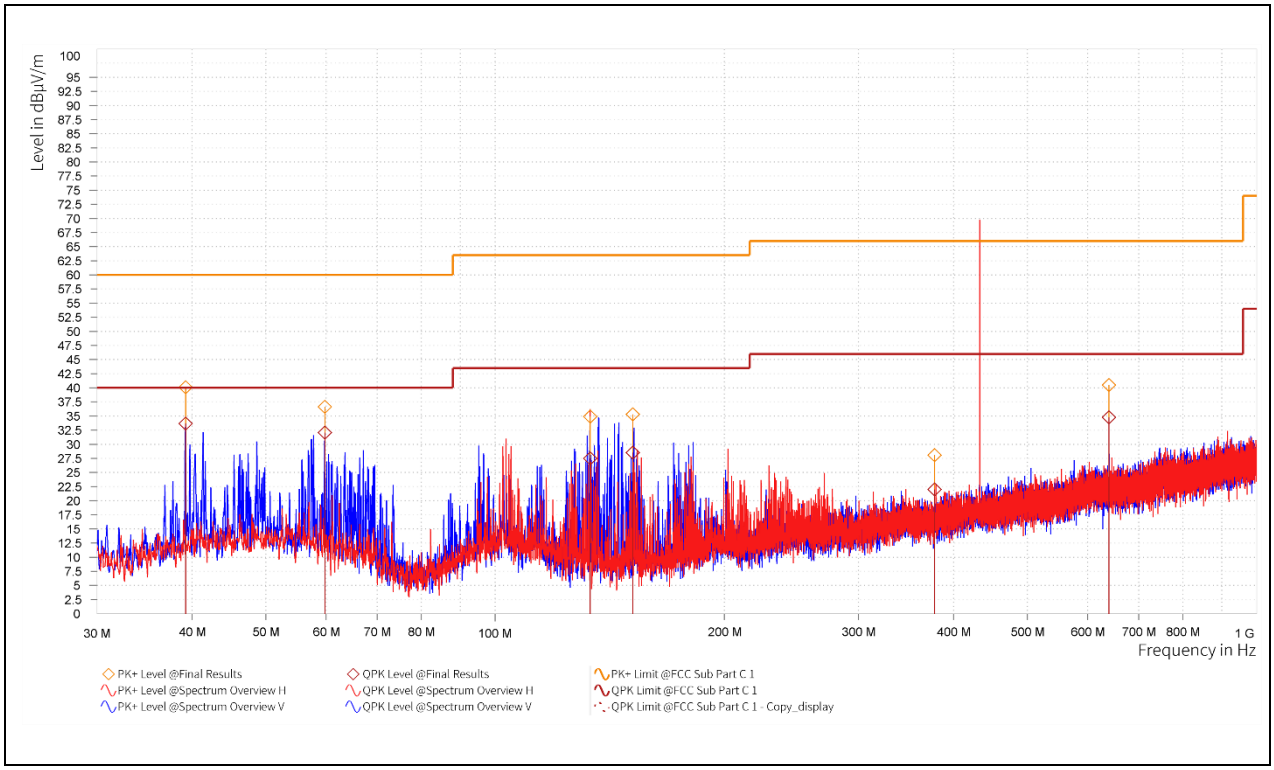
9 ㎑ – 150 ㎑



150 ㎑ – 30 ㎒



30 ㎒ – 1 ㎓



2.4.3. Radiated Spurious Emission above 1 000 ㎒

The following table shows the highest levels of radiated emissions.
The frequency spectrum from 1 000 ㎒ to 4 400 ㎒ was investigated.

Low Channel (433.10 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Result (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*3 897.85	43.57	Peak	V	32.30	-30.43	-	45.44	74.00	28.56
*4 330.77	40.73	Peak	V	32.04	-29.34	-	43.43	74.00	30.57
Above 4 400.00	Not detected	-	-	-	-	-	-	-	-

High Channel (434.70 ㎒)

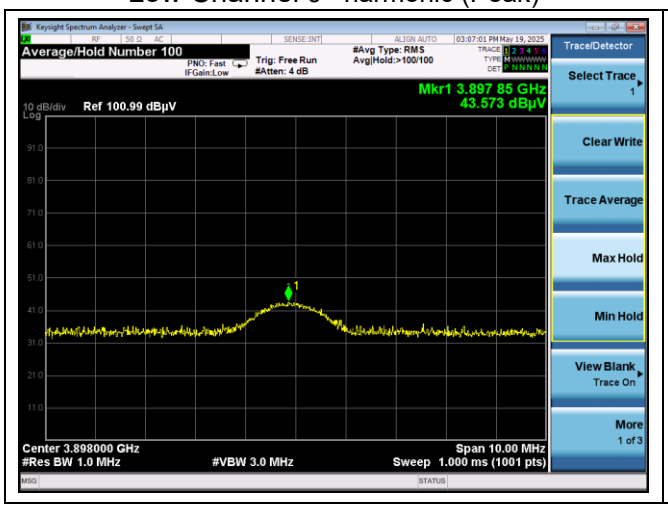
Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Result (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*1 304.10	52.82	Peak	V	25.10	-35.08	-	42.84	74.00	31.16
*3 912.21	43.25	Peak	V	32.30	-30.45	-	45.10	74.00	28.90
*4 346.74	38.79	Peak	V	32.01	-29.27	-	41.53	74.00	32.47
Above 4 400.00	Not detected	-	-	-	-	-	-	-	-

Remark;

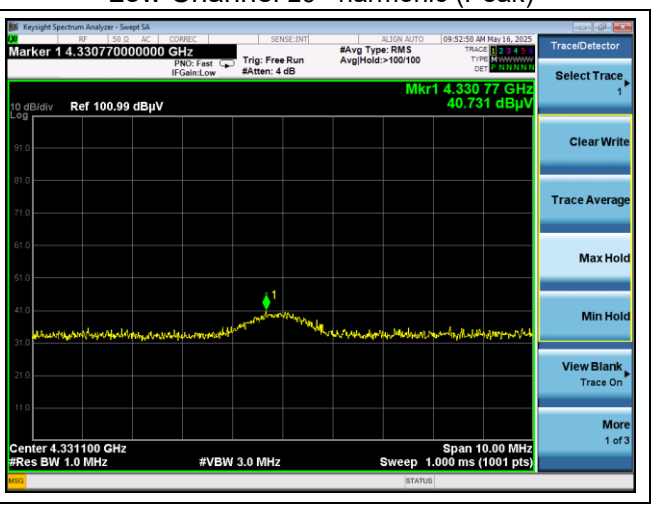
1. "*" means the restricted band.
2. To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes (X, Y, Z). Definition of DUT for three orthogonal planes is described in the test setup photos.
3. Result = Reading + Correction Factors
4. DF (Duty Cycle Correction Factor): 20log (T_{on} / 100 ㎳) = 20log (100 / 100) = 0
   - T_{on} = 100 ㎳. (T_{on} > 100 ㎳. Use 100 ㎳ for calculation)
   - T_{on+off} = 100 ㎳. (T_{on+off} > 100 ㎳. Use 100 ㎳ for calculation)
5. According to § 15.31(o), emission levels are not reported much lower than the limits by over 20 ㏈.
6. The maximized peak measured value complies with the average limit, to perform an average measurement is unnecessary.
7. According to to §15.31(m), since the device operates over a frequency band wider than 1 ㎒ but not exceeding 10 ㎒ (433.10 ㎒ to 434.70 ㎒), testing was performed at two frequencies.

- Test plots

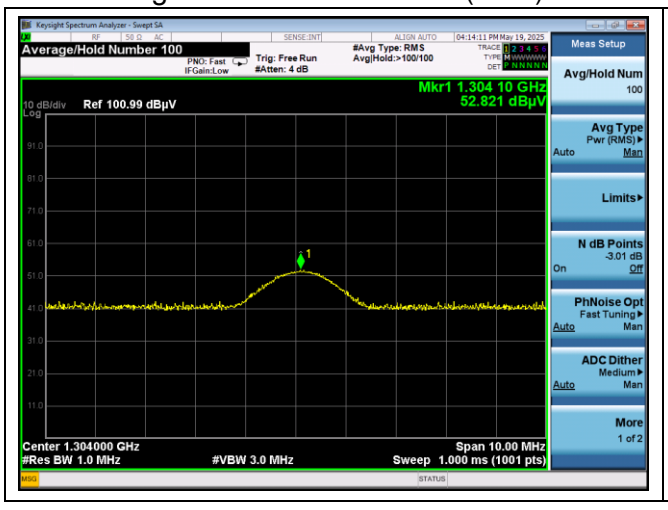
Low Channel 9th harmonic (Peak)



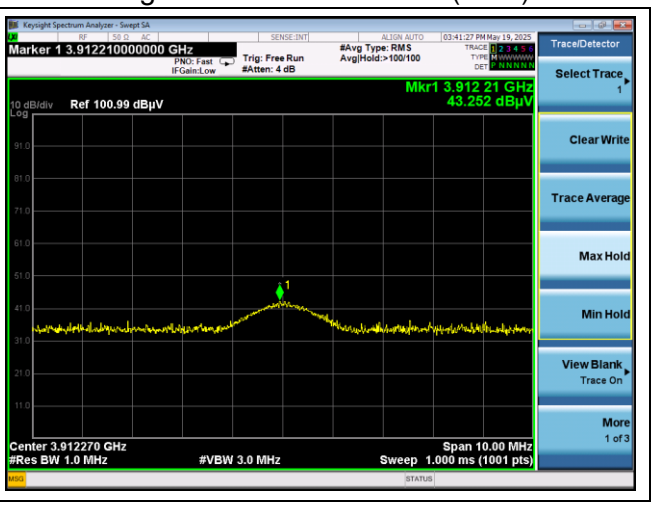
Low Channel 10th harmonic (Peak)



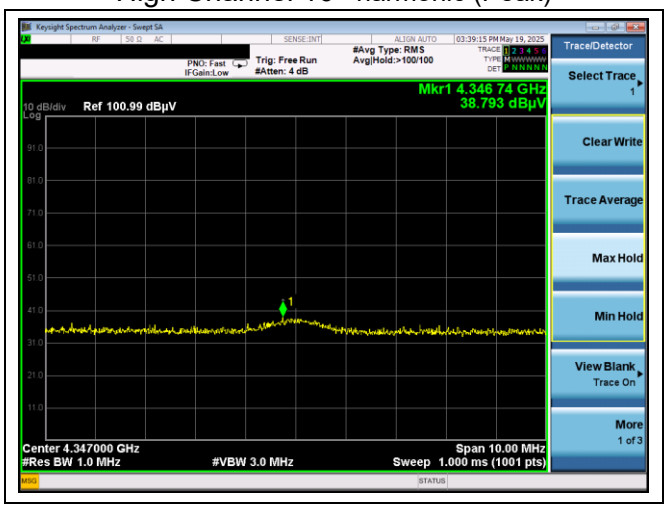
High Channel 3rd harmonic (Peak)



High Channel 9th harmonic (Peak)

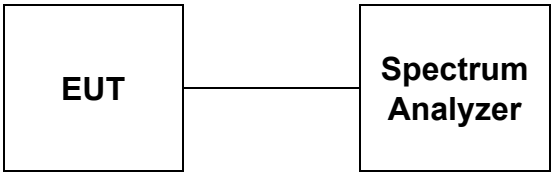


High Channel 10th harmonic (Peak)



3. Bandwidth of Operation Frequency

3.1. Test Setup



3.2. Limit

According to §15.231(c), the bandwidth of the emission shall be no wider than 0.25 % of the center frequency for devices operating above 70 ㎒ and below 900 ㎒. For devices operating above 900 ㎒, the emission shall be no wider than 0.5 % of the center frequency. Bandwidth is determined at the points 20 ㏈ down from the modulated carrier.

3.3. Test Procedure

1. The transmitter output is connected to the spectrum analyzer.
2. The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 x RBW.
3. The bandwidth of fundamental frequency was measured and recorded.

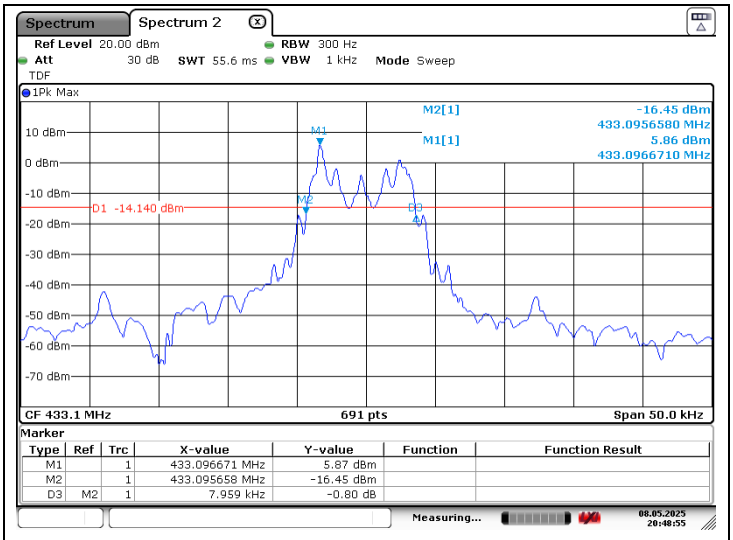
3.4. Test Result

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

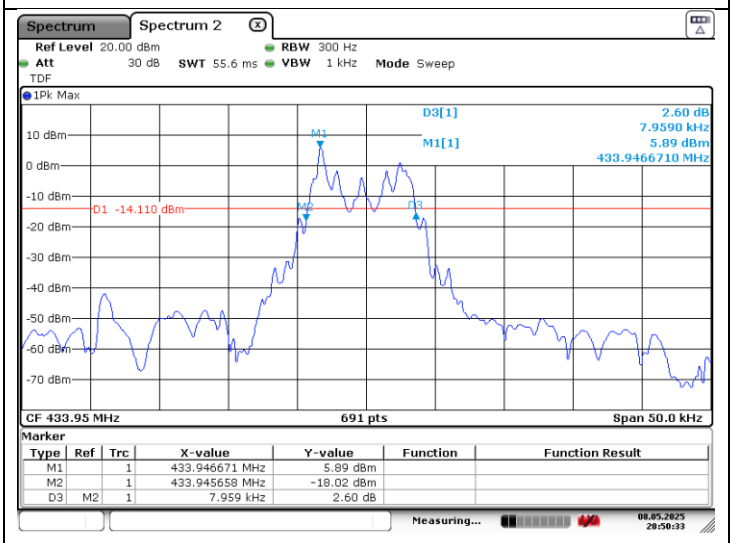
Channel	Frequency (㎒)	Bandwidth of Operation Frequency (㎑)	Limit (㎑)	Remark
Low	433.100	7.959	1 082.750	The point 20 ㏈ down from the modulated carrier
Middle	433.950	7.959	1 084.875	
High	434.700	7.959	1 086.750	

- Test plots

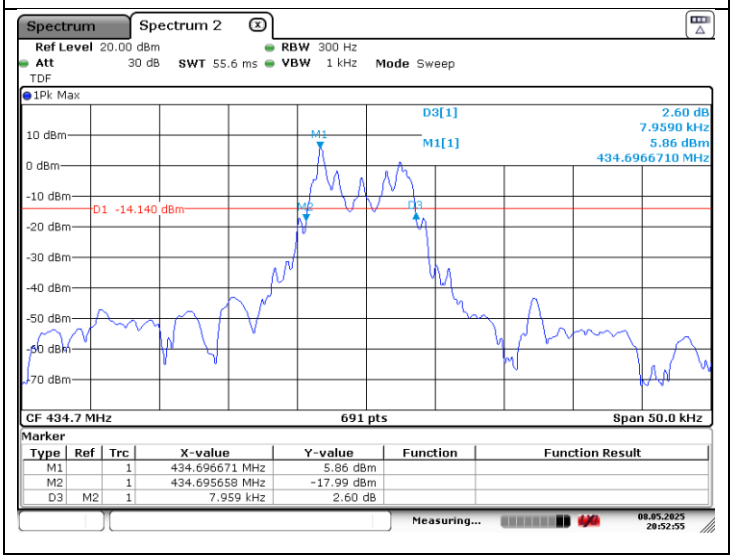
Low Channel



Middle Channel

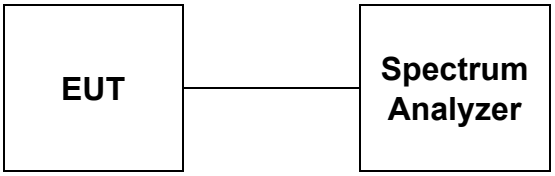


High Channel



4. Transmission Time

4.1. Test Setup



4.2. Limit

According to §15.231(a)(1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

4.3. Test Procedure

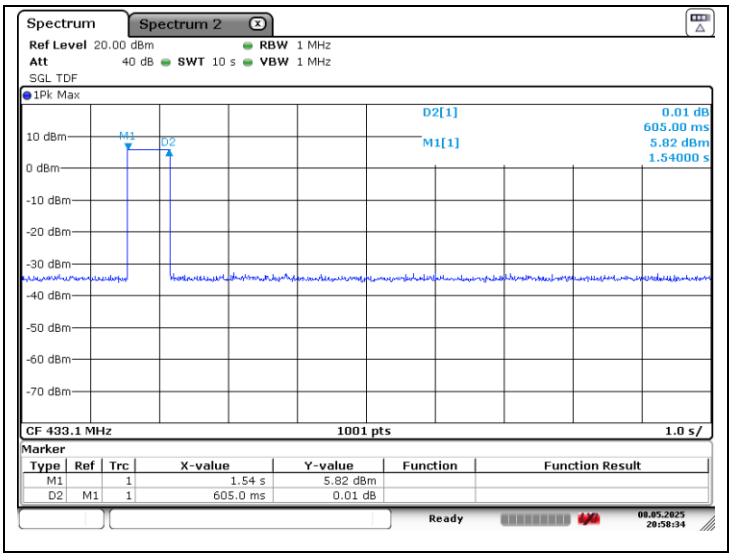
1. The transmitter output is connected to the spectrum analyzer.
2. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW = 1 ㎒, VBW = 1 ㎒, Span = 0 ㎐, Sweep Time = 10 sec.
3. The bandwidth of fundamental frequency was measured and recorded.

4.4. Test Result

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

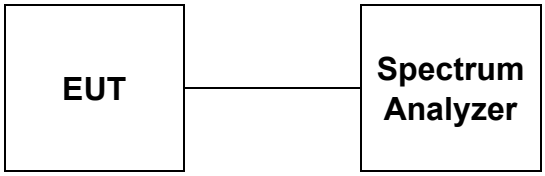
Frequency (㎒)	Transmission Time (sec)	Limit (sec)	Remark
433.10	0.605	Same or less than 5	Pass

- Test plot



5. Duty Cycle Correction Factor

5.1. Test Setup



5.2. Limit

None (No dedicated Limit specified in the Rules).

5.3. Test Procedure

1. The transmitter output is connected to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW = 1 ㎒, VBW = 1 ㎒, Span = 0 ㎐, Sweep Time = 500 msec.

5.4. Test Result

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

CALCULATION:

Average Reading = Peak Reading (dBμV/m) + 20log (Duty Cycle).

In order to determine possible Maximum Modulation percentage, alternations are made to the EUT.
We measured;

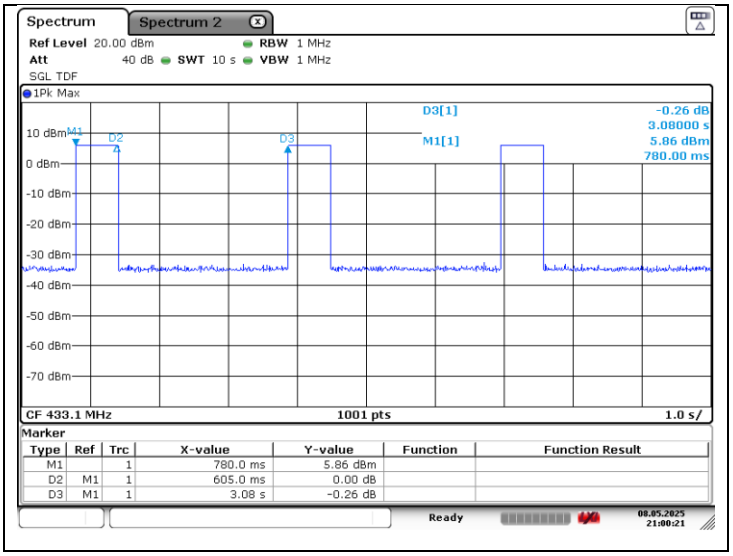
T_{on+off}	T_{on}	M % = (T_{on} / T_{on+off}) * 100 %	Duty Correction Factor
100 ㎳	100 ㎳	100	0

T_{on+off} = 100 ㎳.
T_{on} = 100 ㎳.
Duty Cycle = 20log (T_{on} / T_{on+off}) = 20log (1) = 0 dB.

Remark;

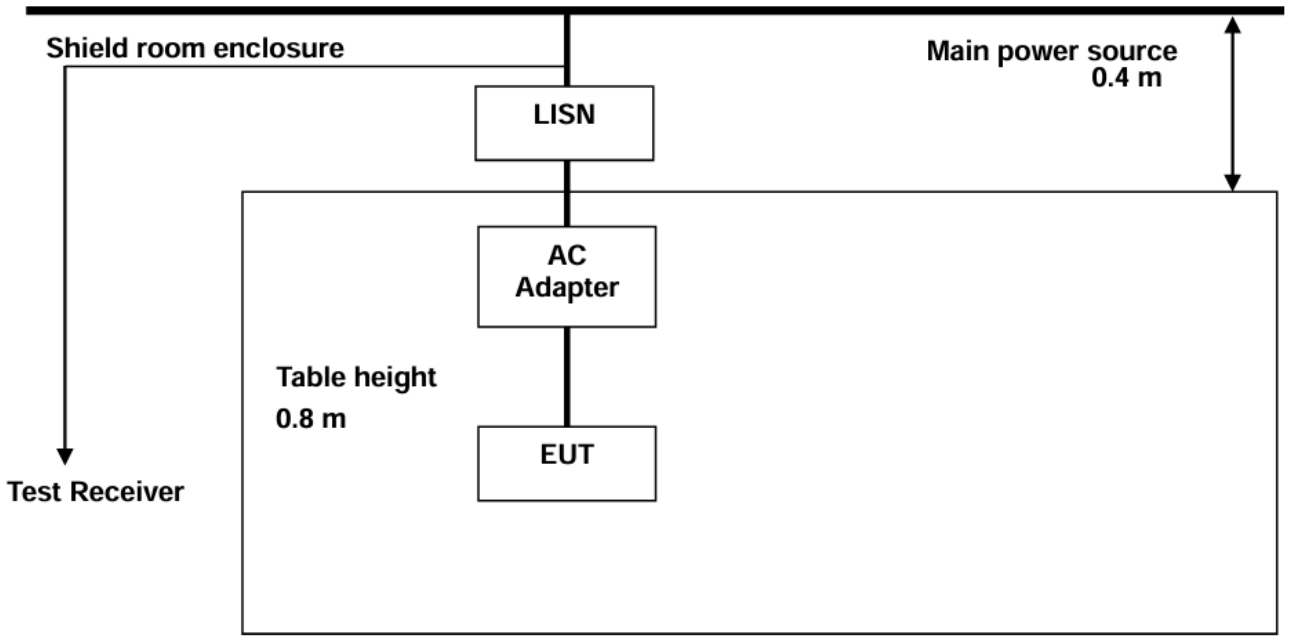
- T_{on} > 100 ㎳. Use 100 ㎳ for calculation
- T_{on+off} > 100 ㎳. Use 100 ㎳ for calculation

- Test plot



6. AC Power Line Conducted Emission

6.1 Test Setup



6.2. Limit

According to §15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 ㎑ to 30 ㎒, shall not exceed the limits in the following table, as measured using a 50 μH /50 ohms line impedance stabilization network (LISN).
Compliance with the provision of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (㎒)	Conducted limit (㏈㎶)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

6.3. Test Procedures

AC conducted emissions from the EUT were measured according to the dictates of ANSI C63.10-2013.

1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

6.4. Test Results

The following table shows the highest levels of conducted emissions on both phase of Hot and Neutral line.

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

Frequency range : 0.15 ㎒ - 30 ㎒
Measured Bandwidth : 9 ㎑

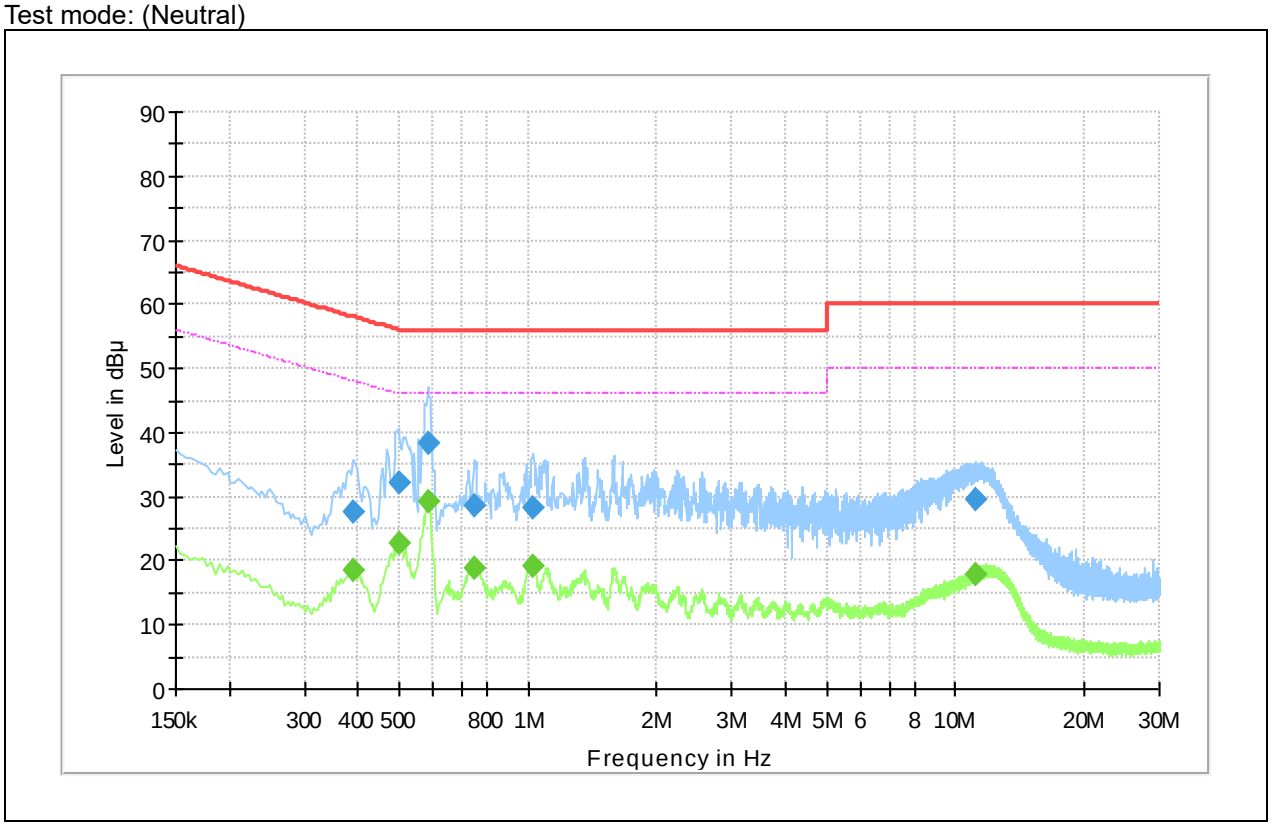
Freq.	Reading (dBμV)		Correction Factor (dB)	Result (dBμV)		Line	Limit (dBμV)		Margin (dB)	
(㎒)	Quasi-peak	Average		Quasi-peak	Average		Quasi-peak	Average	Quasi-peak	Average
0.39	17.85	8.63	9.85	27.70	18.48	N	58.06	48.06	30.36	29.58
0.50	22.45	12.99	9.82	32.27	22.81	N	56.03	46.03	23.76	23.22
0.58	28.49	19.40	9.89	38.38	29.29	N	56.00	46.00	17.62	16.71
0.75	18.69	9.08	9.88	28.57	18.96	N	56.00	46.00	27.43	27.04
1.03	18.43	9.09	9.94	28.37	19.03	N	56.00	46.00	27.63	26.97
11.20	19.32	7.46	10.37	29.69	17.83	N	60.00	50.00	30.31	32.17
0.38	15.75	7.58	9.85	25.60	17.43	H	58.32	48.32	32.72	30.89
0.50	19.08	10.26	9.82	28.90	20.08	H	56.00	46.00	27.10	25.92
0.58	27.59	19.23	9.97	37.56	29.20	H	56.00	46.00	18.44	16.80
0.76	16.01	6.86	9.99	26.00	16.85	H	56.00	46.00	30.00	29.15
1.03	18.00	7.83	10.04	28.04	17.87	H	56.00	46.00	27.96	28.13
11.37	20.86	8.03	10.47	31.33	18.50	H	60.00	50.00	28.67	31.50

Remark;

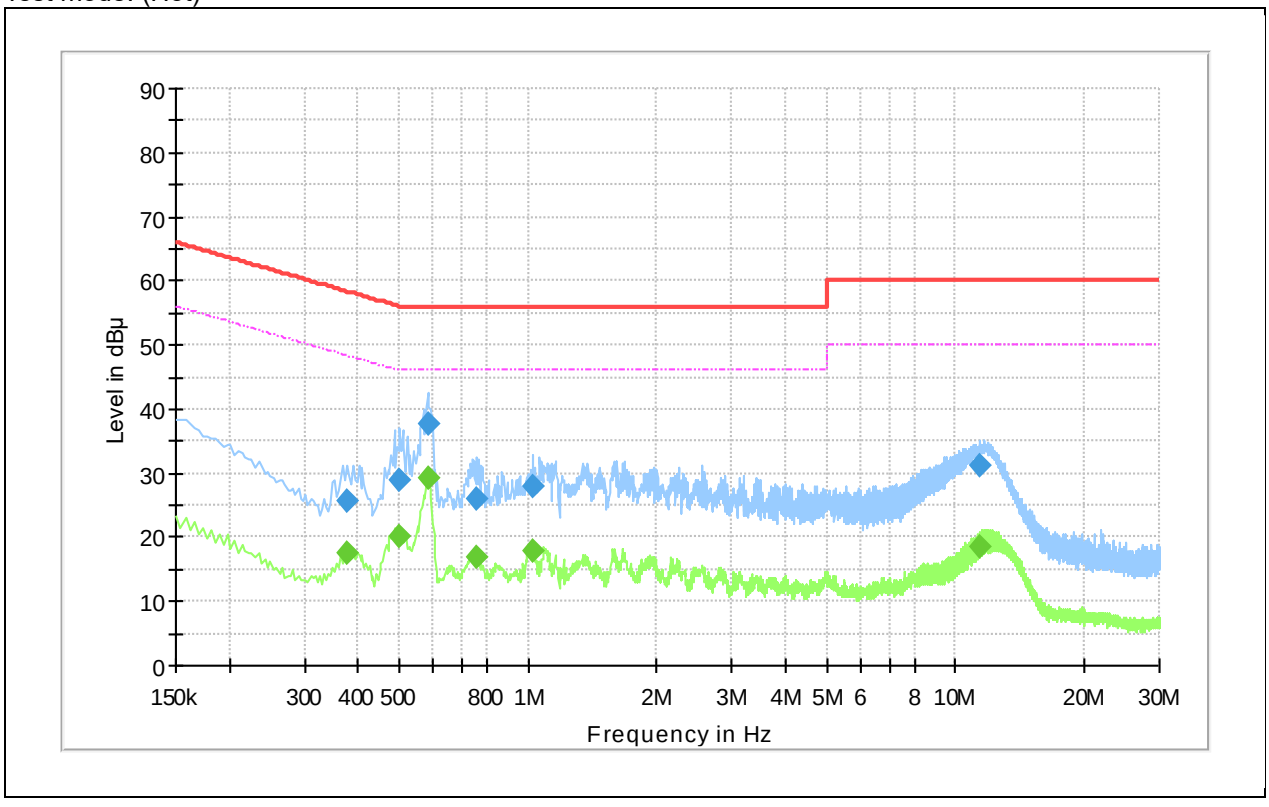
1. Line (H): Hot, Line (N): Neutral.
2. All channels were investigated and the worst-case emissions were reported using **High channel.**
3. The limit for Class B device(s) from 150 ㎑ to 30 ㎒ are specified in Section of the Title 47 CFR.
4. Test from 150 ㎑ to 30 ㎒ was performed using the software of EMC32(V10.60.20) from R&S.
5. Traces shown in plot were made by using a Quasi-peak detector and average detector.
6. Deviations to the Specifications: None.
7. Result (dBμV) = Reading (dBμV) + Correction Factor(dB)
8. Correction Factor(dB) = LISN factor (dB) + Cable loss (dB)

- Test plots

Test mode: (Neutral)



Test mode: (Hot)



7. Antenna Requirement

7.1. 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.
The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. And according to FCC 47 CFR Section §15.247(b) if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power shall be reduced appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.2. Antenna Connected Construction

Antenna used in this product is Helical with gain of -2.96 dBi.

- End of the Test Report -