

mPower Electronics, Inc.

RF TEST REPORT

Report Type:
FCC Part 15.247 RF report

Model:
MP87X

REPORT NUMBER:
2601B2072SHA-001

ISSUE DATE:
July 1, 2026

DOCUMENT CONTROL NUMBER:
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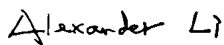
FCC ID: 2AUXFMP87X

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2024): Radio Frequency Devices (Subpart C)

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

PREPARED BY:**REVIEWED BY:**

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TEST REPORT

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Revision History

Report No.	Version	Description	Issued Date
2601B2072SHA-001	Rev. 01	Initial issue of report	July 1, 2026

Measurement result summary

TEST ITEM	FCC REFERENCE	RESULT
Minimum 6dB Bandwidth	15.247(a)(2)	Pass
Maximum conducted output power and e.i.r.p.	15.247(b)(3)	Pass
Power spectrum density	15.247(e)	Pass
Emission outside the frequency band	15.247(d)	Pass
Radiated Emissions in restricted frequency bands	15.247(d), 15.205&15.209	Pass
Power line conducted emission	15.207(a)	Pass
Occupied bandwidth	-	Tested
Antenna requirement	15.203	Pass

Notes:

1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	VOXiLink Wireless Transmitters
Type/Model:	MP87X
Description of EUT:	The EUT is a gas detector with LoRa function.
Rating:	3.6Vdc by Battery
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	January 12, 2026
Date of test:	January 12, 2026 to June 8, 2026

1.2 Technical Specification

Frequency Range:	904.5MHz to 927MHz
Type of Modulation:	LoRa
Channel Number:	16
Channel Separation:	1.5MHz
Antenna Information:	1.45dBi, Rod antenna

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2024)
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
KDB 558074 (v05r02)

2.2 Mode of operation during the test

Three axes (X, Y, Z) were observed while the test receiver worked as “max hold” continuously and the highest reading among the whole test procedure was recorded. Compare with the test results that X axis is the worst case.

The lowest, middle and highest channel were tested as representatives.

Frequency Band (MHz)		904.5MHz ~ 927MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	904.5	9	916.5
2	906.0	10	918.0
3	907.5	11	919.5
4	909.0	12	921.0
5	910.5	13	922.5
6	912.0	14	924.0
7	913.5	15	925.5
8	915.0	16	927.0

Data rate VS Power:

The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

Test software and Power Setting parameter			
Test Software	SScom		
Working Mode	904.5MHz ~ 927MHz		
Test Channel	904.5MHz	915.0MHz	927.0MHz
Power setting	Default		

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

Radiated test mode: EUT transmitted signal with antenna;

Conducted test mode: EUT transmitted signal from RF port connected to SPA directly;

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Laptop computer	HP	-

2.5 Test environment condition:

Test items	Temperature	Humidity
Minimum 6dB Bandwidth	25°C	57% RH
Maximum conducted output power and e.i.r.p.		
Power spectrum density		
Emission outside the frequency band		
Occupied bandwidth		
Radiated Emissions in restricted frequency bands	23°C	55% RH
Power line conducted emission	23°C	55% RH

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☐	Test Receiver	R&S	ESR7	EC 6194	2027-02-17
☐	A.M.N.	R&S	ENV4200	EC 3558	2026-06-04
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Test Receiver	R&S	ESIB 26	EC 3045	2026-08-18
☒	Test Receiver	R&S	ESR	EC6501	2026-09-10
☒	TRILOG broadband Antenna	Schwarzbeck	VULB9168	EC 6402	2027-04-07
☒	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2026-08-24
☒	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2026-12-07
☒	Horn antenna	Tonscend	bha9120d	EC 6432-2	2027-02-15
☒	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2026-09-12
☒	Horn antenna	ETS	3116c	EC 5955	2026-08-14
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2027-05-25
Tet Site					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Shielded room	Zhongyu	-	EC 2838	2027-01-09
☒	Shielded room	Zhongyu	-	EC 2839	2027-01-09
☒	Semi-anechoic chamber	Albatross project	-	EC 3048	2026-07-11
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Thermo-Hygrograph	Testo	175h1	EC 6640	2026-08-03
☒	Thermo-Hygrograph	Testo	175h1	EC6642	2026-08-03
☒	Thermo-Hygrograph	Testo	175h1	EC 6643	2026-08-03

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	$\pm 0.74\text{dB}$
Radiated Emissions in restricted frequency bands below 1GHz	$\pm 4.90\text{dB}$
Radiated Emissions in restricted frequency bands above 1GHz	$\pm 5.02\text{dB}$
Emission outside the frequency band	$\pm 2.89\text{dB}$
Power line conducted emission	$\pm 3.19\text{dB}$

3 Minimum 6dB bandwidth

Test result: **Pass**

3.1 Limit

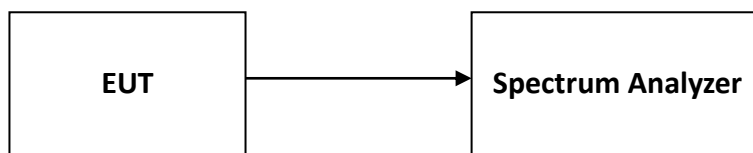
For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

3.2 Measurement Procedure

The minimum 6dB bandwidth is measured using the Spectrum Analyzer according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 8.2) for compliance requirements.

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3 Test Configuration



3.4 Test Results of Minimum 6dB bandwidth

Please refer to Appendix A

4 Maximum conducted output power and e.i.r.p.

Test result: Pass

4.1 Limit

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 W.
(The e.i.r.p. shall not exceed 4 W)

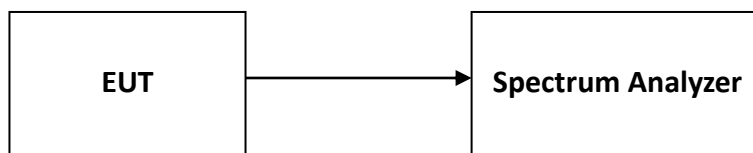
If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 30dBm and 30+ (6 –antenna gain-beam forming gain).

4.2 Measurement Procedure

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 9.1.1) for compliance requirements.

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq 3 \times$ RBW.
- c) Set span $\geq 3 \times$ RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

4.3 Test Configuration



4.4 Test Results of Maximum conducted output power

Please refer to Appendix A

5 Power spectrum density

Test result: Pass

5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

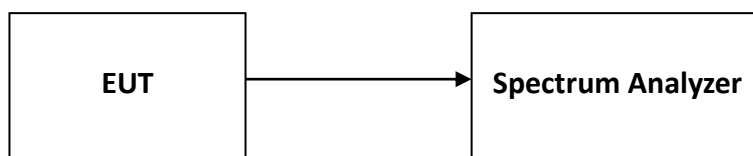
If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 8dBm/MHz and $8 + (6 - \text{antenna gain} - \text{beam forming gain})$.

5.2 Measurement Procedure

The power output was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" (clause 10.2) for compliance requirements.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 Test Configuration



5.4 Test Results of Power spectrum density

Please refer to Appendix A

6 Emission outside the frequency band

Test result: Pass

6.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

6.2 Measurement Procedure

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 11.0) for compliance requirements.

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

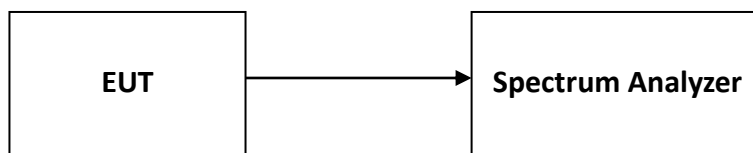
Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq 3 \times$ RBW.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding

restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

6.3 Test Configuration



6.4 The results of Emission outside the frequency band

Please refer to Appendix A

7 Radiated Emissions in restricted frequency bands

Test result: Pass

7.1 Limit

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified showed as below:

Frequencies (MHz)	Field Strength (microvolts/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

7.2 Measurement Procedure

For Radiated emission below 30MHz:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Both X and Y axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

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1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz:

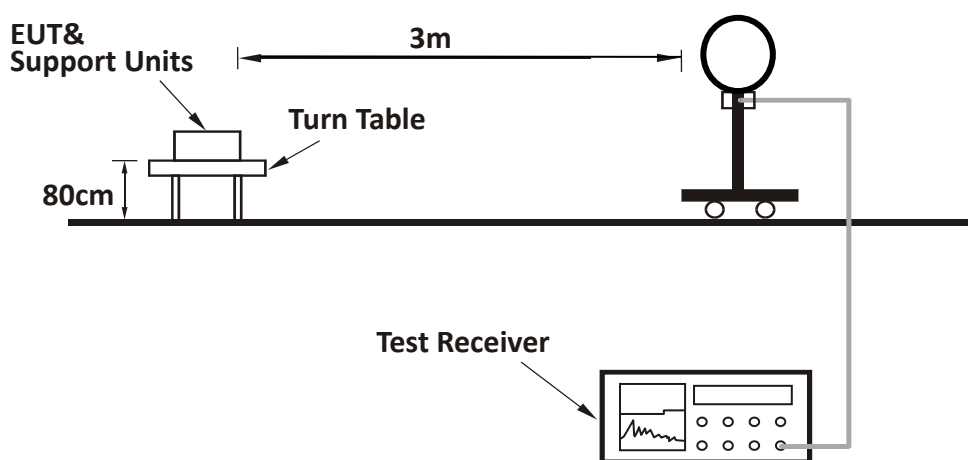
- a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The height of antenna 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.
- d) 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

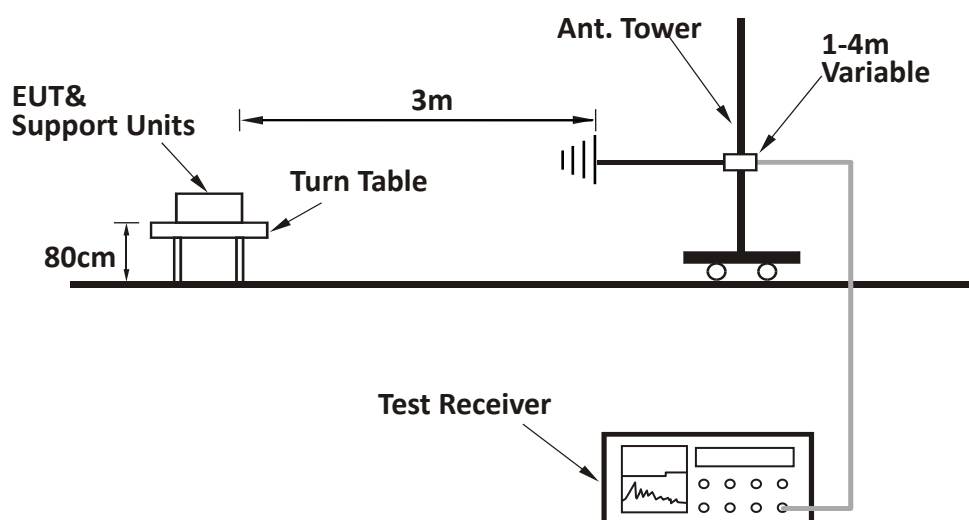
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 3 x RBW (Duty cycle $\geq$ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

7.3 Test Configuration

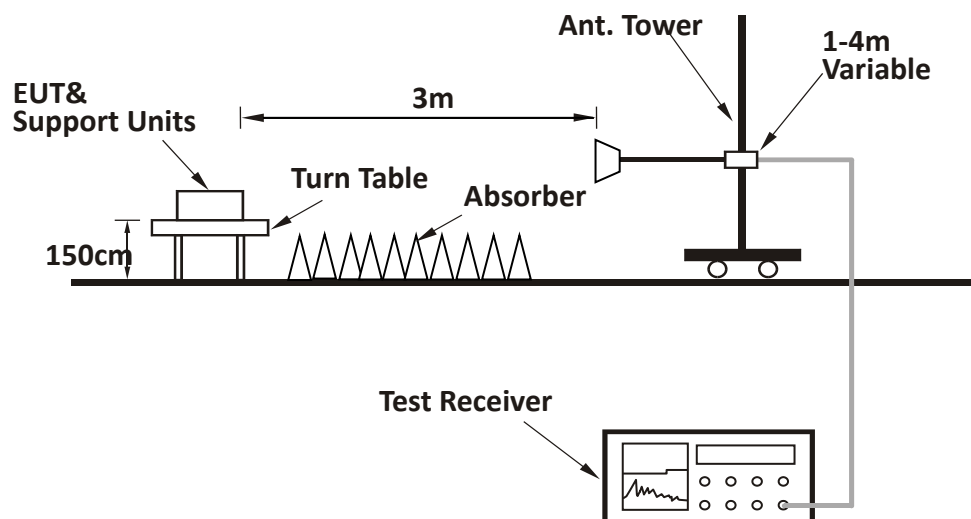
For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:



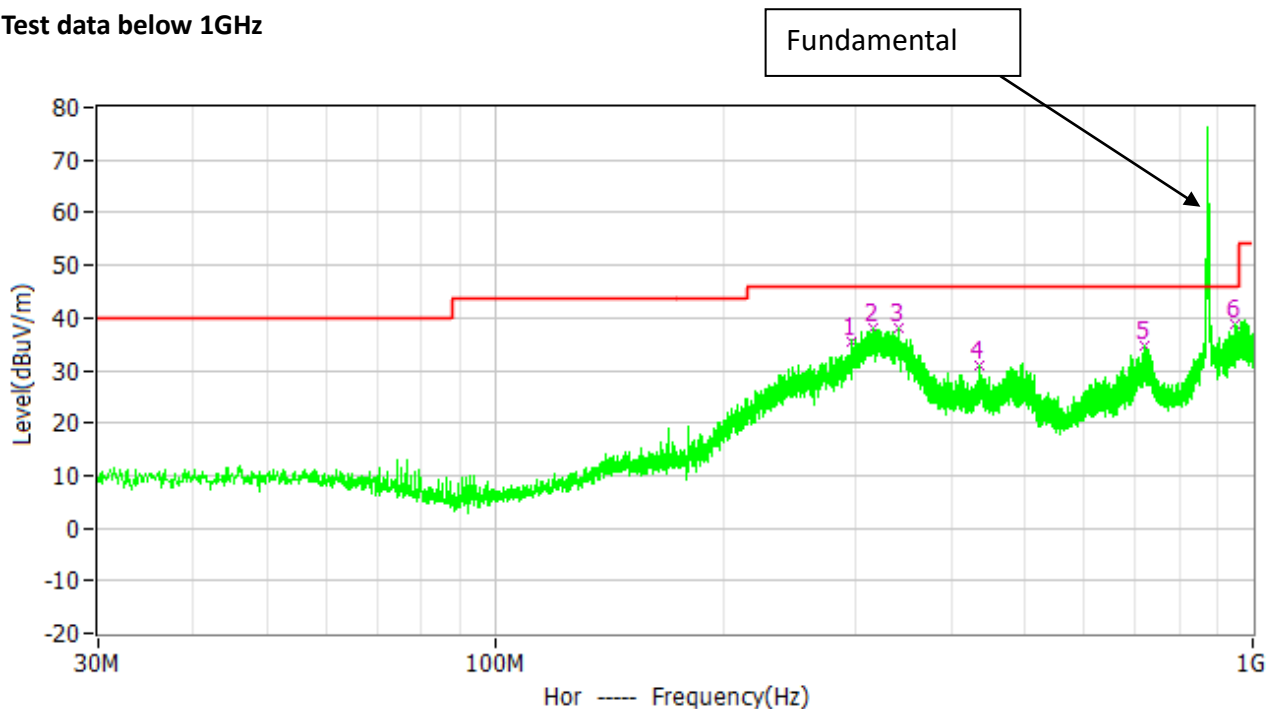
For Radiated emission above 1GHz:



7.4 Test Results of Radiated Emissions

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Test data below 1GHz



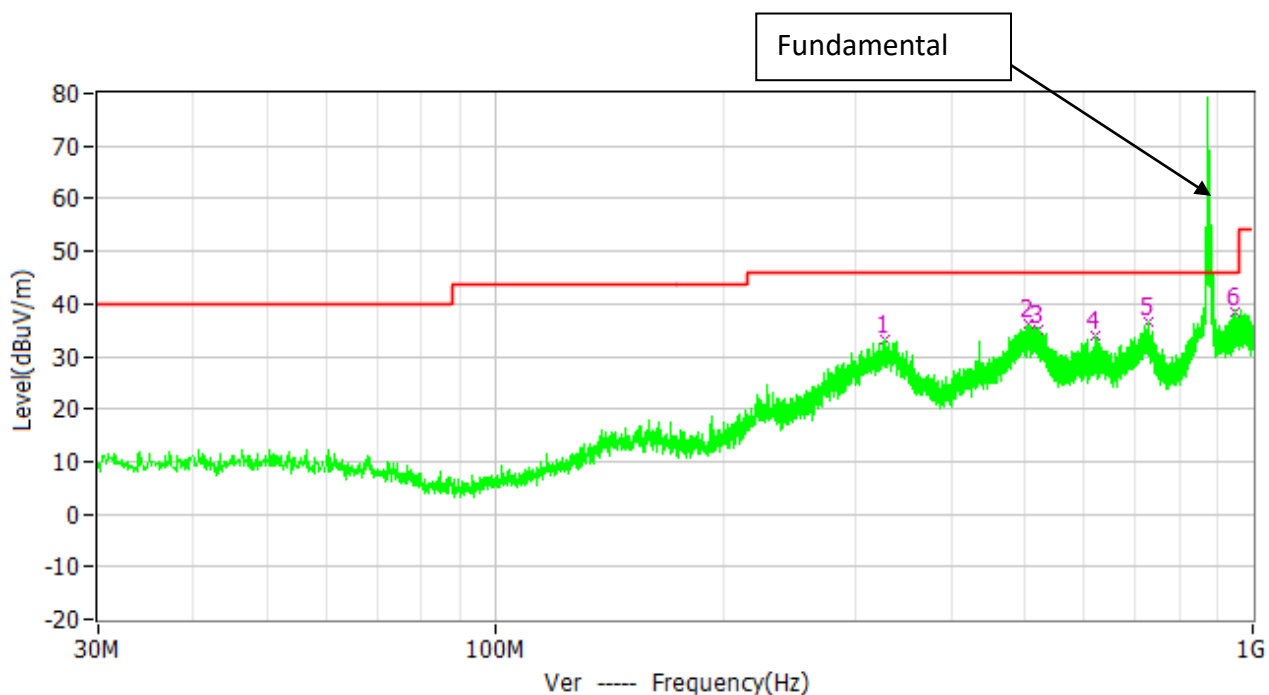
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	296.168MHz	46.0	35.6	-10.4	19.8	15.8	QP	Hor
2*	316.441MHz	46.0	38.0	-8.0	21.8	16.2	QP	Hor
3*	341.952MHz	46.0	38.0	-8.0	21.3	16.7	QP	Hor
4*	434.781MHz	46.0	30.9	-15.1	11.5	19.4	QP	Hor
5*	722.095MHz	46.0	34.7	-11.3	9.0	25.7	QP	Hor
6*	950.142MHz	46.0	38.9	-7.1	10.7	28.2	QP	Hor

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Correct Factor

3. Delta = Level - Limit

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	327.499MHz	46.0	33.2	-12.8	16.8	16.4	QP	Ver
2*	505.009MHz	46.0	36.0	-10.0	14.7	21.3	QP	Ver
3*	522.178MHz	46.0	34.9	-11.1	13.3	21.6	QP	Ver
4*	618.790MHz	46.0	34.0	-12.0	10.1	23.9	QP	Ver
5*	728.788MHz	46.0	36.5	-9.5	10.6	25.9	QP	Ver
6*	947.232MHz	46.0	38.6	-7.4	10.4	28.2	QP	Ver

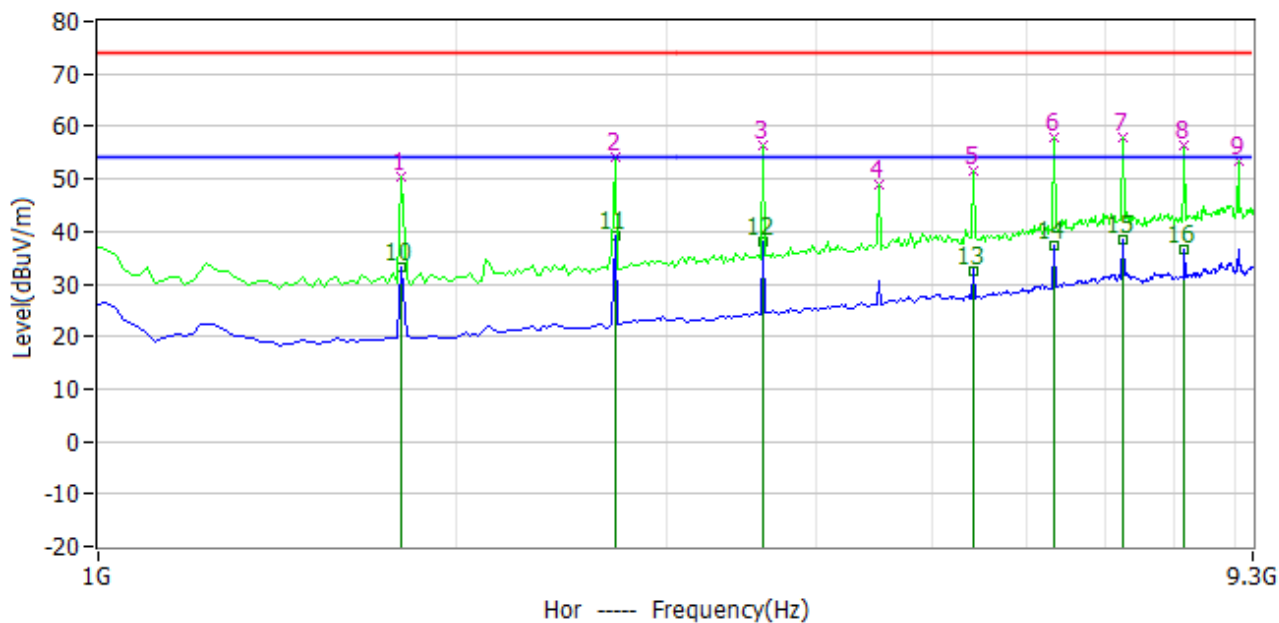
Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
 2. Level = Original Receiver Reading + Correct Factor
 3. Delta = Level - Limit
 4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

TEST REPORT

Test result above 1GHz:

The emission was conducted from 1GHz to 9.3GHz.

Low channel-904.5MHz:

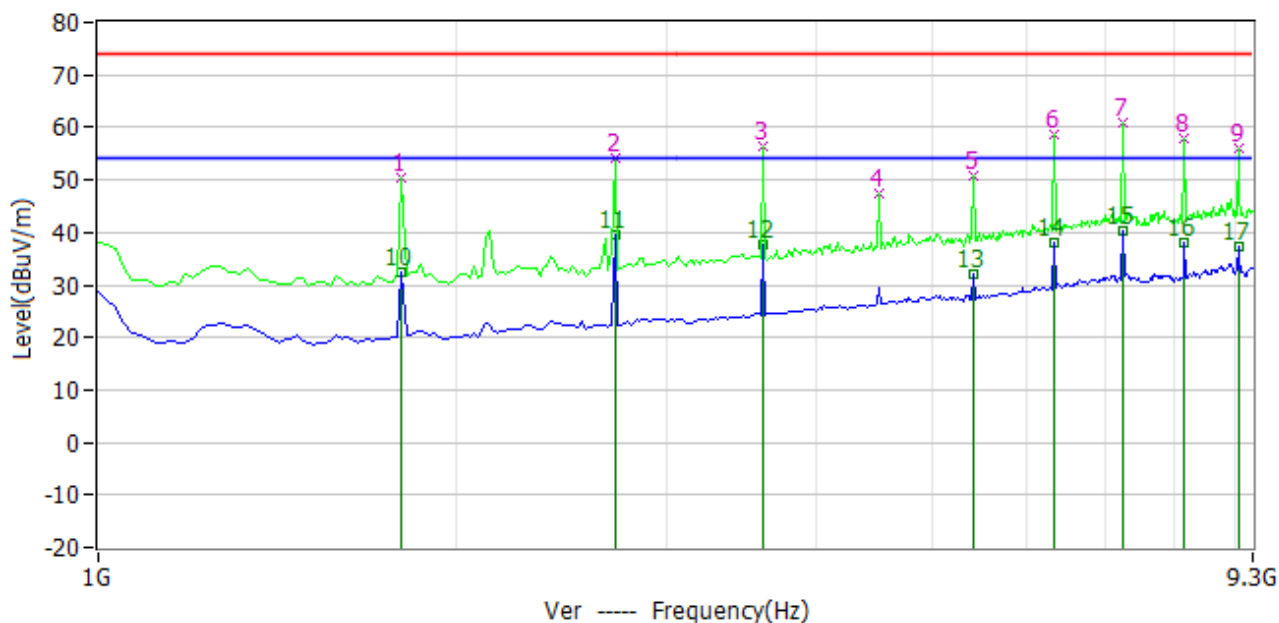


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	1.798GHz	74.00	50.25	-23.75	72.76	-22.51	PK	Hor
2*	2.713GHz	74.00	54.23	-19.77	72.77	-18.54	PK	Hor
3*	3.611GHz	74.00	56.30	-17.70	72.76	-16.46	PK	Hor
4*	4.526GHz	74.00	48.90	-25.10	62.50	-13.60	PK	Hor
5*	5.424GHz	74.00	51.49	-22.51	63.25	-11.76	PK	Hor
6*	6.339GHz	74.00	57.80	-16.20	67.66	-9.86	PK	Hor
7*	7.238GHz	74.00	58.02	-15.98	65.78	-7.76	PK	Hor
8*	8.152GHz	74.00	56.22	-17.78	62.89	-6.67	PK	Hor
9*	9.051GHz	74.00	53.33	-20.67	57.34	-4.01	PK	Hor
10*	1.798GHz	54.00	33.00	-21.00	55.51	-22.51	AV	Hor
11*	2.713GHz	54.00	39.09	-14.91	57.63	-18.54	AV	Hor
12*	3.611GHz	54.00	38.12	-15.88	54.58	-16.46	AV	Hor
13*	5.424GHz	54.00	32.62	-21.38	44.38	-11.76	AV	Hor
14*	6.339GHz	54.00	37.20	-16.80	47.06	-9.86	AV	Hor
15*	7.238GHz	54.00	38.51	-15.49	46.27	-7.76	AV	Hor
16*	8.152GHz	54.00	36.57	-17.43	43.24	-6.67	AV	Hor

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

TEST REPORT

2. Level = Original Receiver Reading + Correct Factor
3. Delta = Level - Limit
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.



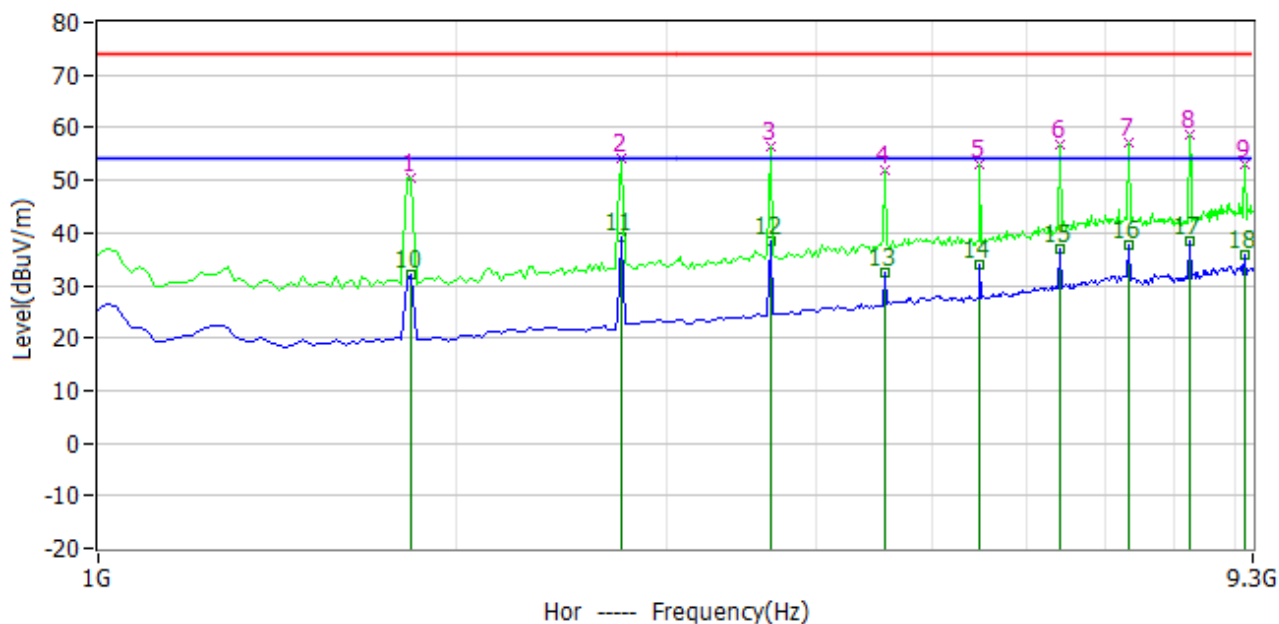
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	1.798GHz	74.00	50.25	-23.75	72.76	-22.51	PK	Ver
2*	2.713GHz	74.00	54.23	-19.77	72.77	-18.54	PK	Ver
3*	3.611GHz	74.00	56.30	-17.70	72.76	-16.46	PK	Ver
4*	4.526GHz	74.00	47.39	-26.61	60.99	-13.60	PK	Ver
5*	5.424GHz	74.00	50.67	-23.33	62.43	-11.76	PK	Ver
6*	6.339GHz	74.00	58.74	-15.26	68.60	-9.86	PK	Ver
7*	7.238GHz	74.00	60.96	-13.04	68.72	-7.76	PK	Ver
8*	8.152GHz	74.00	57.90	-16.10	64.57	-6.67	PK	Ver
9*	9.051GHz	74.00	56.13	-17.87	60.14	-4.01	PK	Ver
10*	1.798GHz	54.00	32.43	-21.57	54.94	-22.51	AV	Ver
11*	2.713GHz	54.00	39.46	-14.54	58.00	-18.54	AV	Ver
12*	3.611GHz	54.00	37.52	-16.48	53.98	-16.46	AV	Ver
13*	5.424GHz	54.00	31.95	-22.05	43.71	-11.76	AV	Ver
14*	6.339GHz	54.00	38.17	-15.83	48.03	-9.86	AV	Ver
15*	7.238GHz	54.00	40.17	-13.83	47.93	-7.76	AV	Ver
16*	8.152GHz	54.00	38.17	-15.83	44.84	-6.67	AV	Ver
17*	9.051GHz	54.00	37.30	-16.70	41.31	-4.01	AV	Ver

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Correct Factor

3. $\Delta = \text{Level} - \text{Limit}$
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Middle channel-915.0MHz:



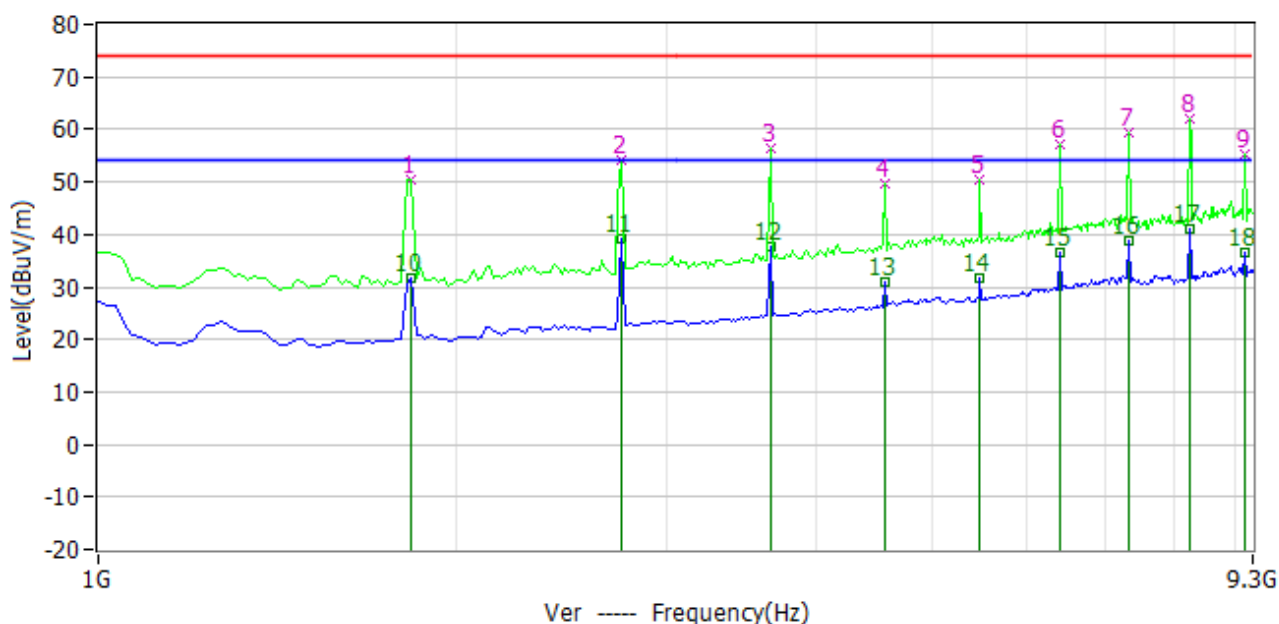
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	1.832GHz	74.00	50.38	-23.62	72.76	-22.38	PK	Hor
2*	2.747GHz	74.00	54.32	-19.68	72.76	-18.44	PK	Hor
3*	3.661GHz	74.00	56.45	-17.55	72.76	-16.31	PK	Hor
4*	4.576GHz	74.00	51.96	-22.04	65.21	-13.25	PK	Hor
5*	5.491GHz	74.00	53.11	-20.89	64.84	-11.73	PK	Hor
6*	6.406GHz	74.00	56.62	-17.38	66.09	-9.47	PK	Hor
7*	7.321GHz	74.00	57.19	-16.81	64.92	-7.73	PK	Hor
8*	8.236GHz	74.00	58.58	-15.42	64.92	-6.34	PK	Hor
9*	9.150GHz	74.00	53.04	-20.96	56.99	-3.95	PK	Hor
10*	1.832GHz	54.00	32.15	-21.85	54.53	-22.38	AV	Hor
11*	2.747GHz	54.00	39.11	-14.89	57.55	-18.44	AV	Hor
12*	3.661GHz	54.00	38.52	-15.48	54.83	-16.31	AV	Hor
13*	4.576GHz	54.00	32.44	-21.56	45.69	-13.25	AV	Hor
14*	5.491GHz	54.00	33.79	-20.21	45.52	-11.73	AV	Hor
15*	6.406GHz	54.00	36.94	-17.06	46.41	-9.47	AV	Hor
16*	7.321GHz	54.00	37.81	-16.19	45.54	-7.73	AV	Hor
17*	8.236GHz	54.00	38.35	-15.65	44.69	-6.34	AV	Hor
18*	9.150GHz	54.00	35.86	-18.14	39.81	-3.95	AV	Hor

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Correct Factor

3. $\Delta = \text{Level} - \text{Limit}$
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

TEST REPORT



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	1.832GHz	74.00	50.38	-23.62	72.76	-22.38	PK	Ver
2*	2.747GHz	74.00	54.32	-19.68	72.76	-18.44	PK	Ver
3*	3.661GHz	74.00	56.45	-17.55	72.76	-16.31	PK	Ver
4*	4.576GHz	74.00	49.83	-24.17	63.08	-13.25	PK	Ver
5*	5.491GHz	74.00	50.38	-23.62	62.11	-11.73	PK	Ver
6*	6.406GHz	74.00	57.10	-16.90	66.57	-9.47	PK	Ver
7*	7.321GHz	74.00	59.44	-14.56	67.17	-7.73	PK	Ver
8*	8.236GHz	74.00	61.94	-12.06	68.28	-6.34	PK	Ver
9*	9.167GHz	74.00	55.39	-18.61	59.31	-3.92	PK	Ver
10*	1.832GHz	54.00	31.68	-22.32	54.06	-22.38	AV	Ver
11*	2.747GHz	54.00	38.99	-15.01	57.43	-18.44	AV	Ver
12*	3.661GHz	54.00	37.74	-16.26	54.05	-16.31	AV	Ver
13*	4.576GHz	54.00	30.91	-23.09	44.16	-13.25	AV	Ver
14*	5.491GHz	54.00	31.83	-22.17	43.56	-11.73	AV	Ver
15*	6.406GHz	54.00	36.61	-17.39	46.08	-9.47	AV	Ver
16*	7.321GHz	54.00	38.75	-15.25	46.48	-7.73	AV	Ver
17*	8.236GHz	54.00	41.06	-12.94	47.40	-6.34	AV	Ver
18*	9.150GHz	54.00	36.38	-17.62	40.33	-3.95	AV	Ver

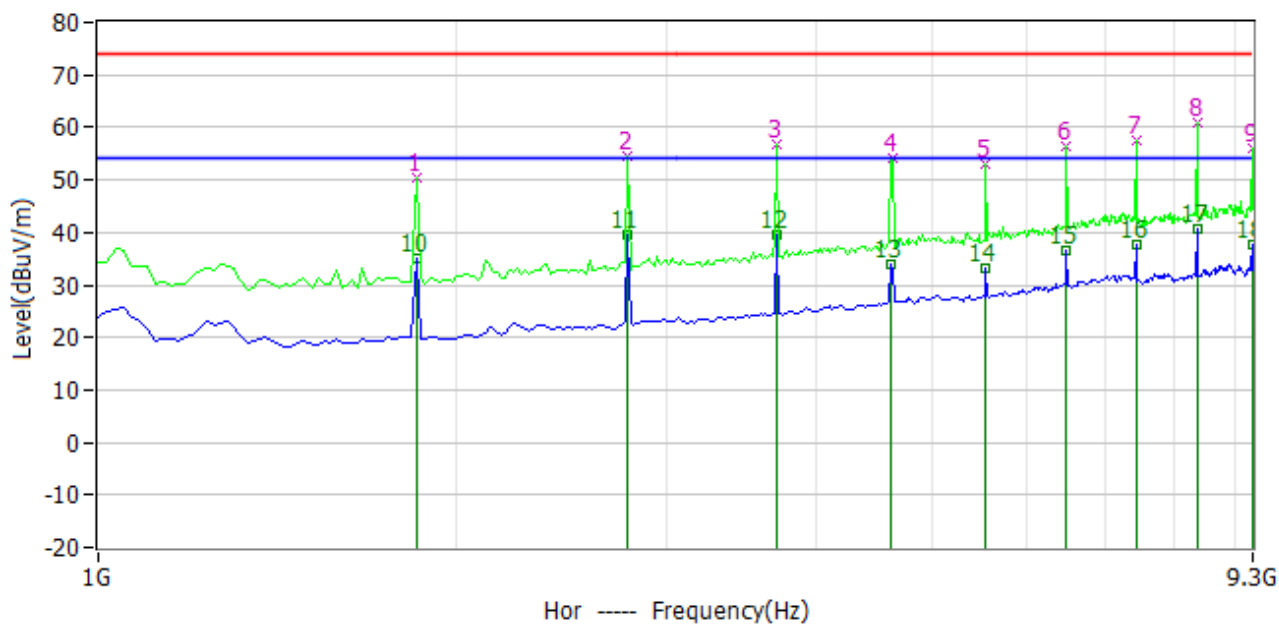
Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Correct Factor

3. Delta = Level - Limit

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

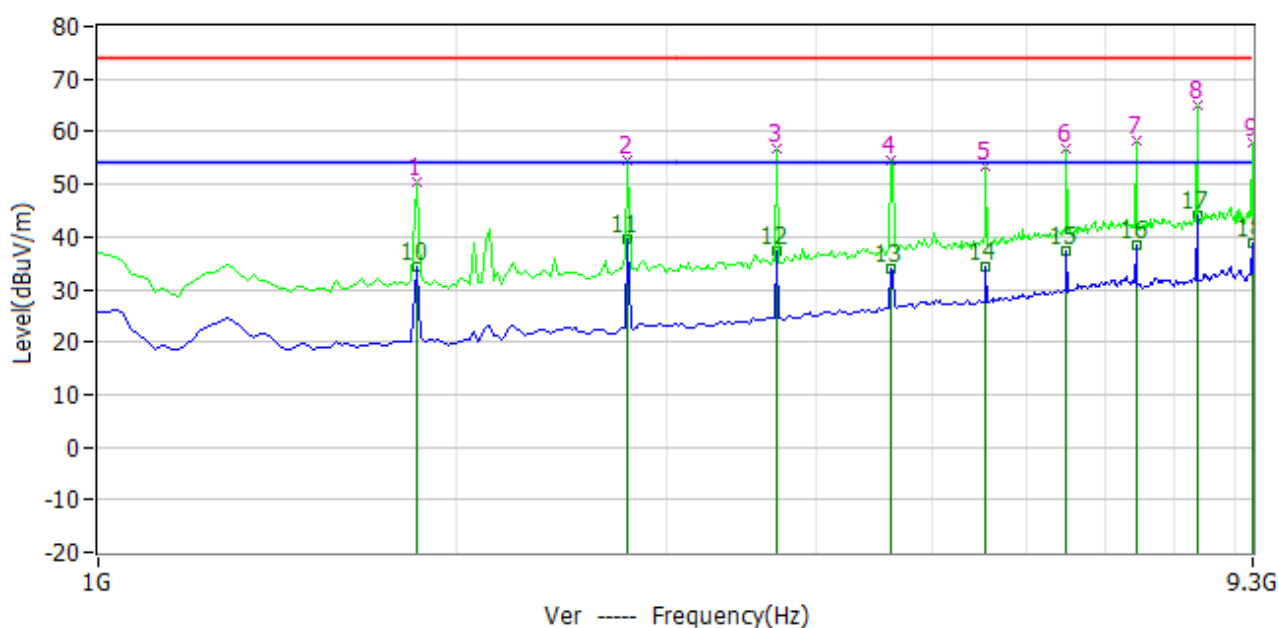
Middle channel-927.0MHz:



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	1.848GHz	74.00	50.38	-23.62	72.76	-22.38	PK	Hor
2*	2.780GHz	74.00	54.58	-19.42	72.76	-18.18	PK	Hor
3*	3.711GHz	74.00	56.63	-17.37	72.77	-16.14	PK	Hor
4*	4.643GHz	74.00	54.16	-19.84	67.00	-12.84	PK	Hor
5*	5.558GHz	74.00	53.18	-20.82	64.92	-11.74	PK	Hor
6*	6.489GHz	74.00	56.48	-17.52	65.47	-8.99	PK	Hor
7*	7.420GHz	74.00	57.56	-16.44	65.36	-7.80	PK	Hor
8*	8.352GHz	74.00	60.72	-13.28	66.63	-5.91	PK	Hor
9*	9.283GHz	74.00	56.00	-18.00	59.68	-3.68	PK	Hor
10*	1.848GHz	54.00	34.90	-19.10	57.28	-22.38	AV	Hor
11*	2.780GHz	54.00	39.73	-14.27	57.91	-18.18	AV	Hor
12*	3.711GHz	54.00	39.54	-14.46	55.68	-16.14	AV	Hor
13*	4.626GHz	54.00	33.84	-20.16	46.76	-12.92	AV	Hor
14*	5.558GHz	54.00	33.07	-20.93	44.81	-11.74	AV	Hor
15*	6.489GHz	54.00	36.42	-17.58	45.41	-8.99	AV	Hor
16*	7.420GHz	54.00	37.63	-16.37	45.43	-7.80	AV	Hor
17*	8.352GHz	54.00	40.77	-13.23	46.68	-5.91	AV	Hor
18*	9.283GHz	54.00	37.86	-16.14	41.54	-3.68	AV	Hor

TEST REPORT

- Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Level = Original Receiver Reading + Correct Factor
3. Delta = Level - Limit
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
1*	1.848GHz	74.00	50.38	-23.62	72.76	-22.38	PK	Ver
2*	2.780GHz	74.00	54.58	-19.42	72.76	-18.18	PK	Ver
3*	3.711GHz	74.00	56.63	-17.37	72.77	-16.14	PK	Ver
4*	4.626GHz	74.00	54.50	-19.50	67.42	-12.92	PK	Ver
5*	5.558GHz	74.00	53.38	-20.62	65.12	-11.74	PK	Ver
6*	6.489GHz	74.00	56.78	-17.22	65.77	-8.99	PK	Ver
7*	7.420GHz	74.00	58.39	-15.61	66.19	-7.80	PK	Ver
8*	8.352GHz	74.00	64.85	-9.15	70.76	-5.91	PK	Ver
9*	9.283GHz	74.00	57.98	-16.02	61.66	-3.68	PK	Ver
10*	1.848GHz	54.00	34.46	-19.54	56.84	-22.38	AV	Ver
11*	2.780GHz	54.00	39.72	-14.28	57.90	-18.18	AV	Ver
12*	3.711GHz	54.00	37.36	-16.64	53.50	-16.14	AV	Ver
13*	4.626GHz	54.00	33.93	-20.07	46.85	-12.92	AV	Ver
14*	5.558GHz	54.00	34.40	-19.60	46.14	-11.74	AV	Ver
15*	6.489GHz	54.00	37.13	-16.87	46.12	-8.99	AV	Ver
16*	7.420GHz	54.00	38.42	-15.58	46.22	-7.80	AV	Ver
17*	8.352GHz	54.00	44.10	-9.90	50.01	-5.91	AV	Ver

TEST REPORT

No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar
18*	9.283GHz	54.00	38.65	-15.35	42.33	-3.68	AV	Ver

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Correct Factor

3. Delta = Level - Limit

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

8 Power line conducted emission

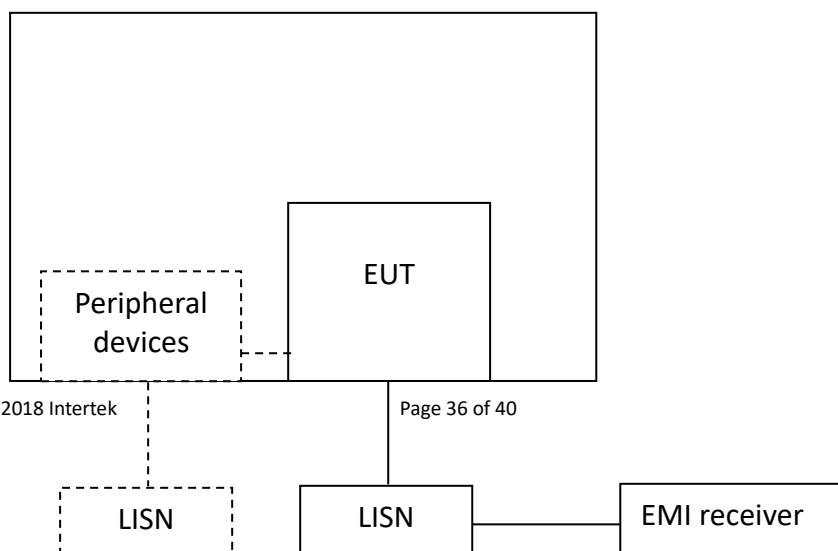
Test result: NA

8.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
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.

8.2 Test Configuration



8.3 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

8.4 Test Results of Power line conducted emission

None

9 Occupied Bandwidth

Test result: **Tested**

9.1 Limit

None

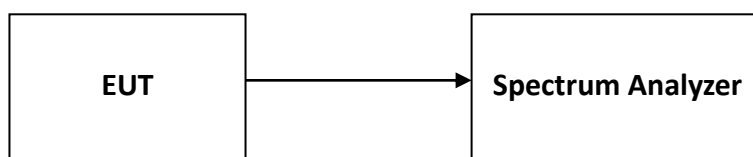
9.2 Measurement Procedure

The occupied bandwidth per RSS-Gen was measured using the Spectrum Analyzer.

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

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 3x RBW.

9.3 Test Configuration



9.4 The results of Occupied Bandwidth

Please refer to Appendix A

10 Antenna requirement

Requirement:

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.

Result:

EUT uses an antenna that uses a unique coupling to the intentional radiator, so it can comply with the provisions of this section.

***** END *****