FCC Test Report

FCC ID	:	**P27LORAAREAV2**
Equipment	:	**MachineQ Area 8C V2 LoRaWAN Gateway**
Model No.	:	**GII-AD-B**
Brand Name	:	**Sercomm, Comcast, MachineQ** **(For marketing purpose.)**
Applicant	:	**Sercomm Corporation**
Address	:	**8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.**
Standard	:	**47 CFR FCC Part 15.247**
Received Date	:	**May 15, 2024**
Tested Date	:	**May 20 ~ Jun. 04, 2024**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:	**Approved by:**
Along Chen / Assistant Manager	**Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
FR451502LR-1	Rev. 01	Initial issue	Jul. 19, 2024

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.402MHz 42.93 (Margin -4.88dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 42.61MHz 33.72 (Margin -6.28dB) - PK	Pass
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: 27.15	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**Ch. Frequency (MHz)**	**Channel Number**	**Physical bit rate (bit/sec)**	**Spread Factor**	**Channel Spacing (kHz)**
902 ~ 928	903.0 ~ 914.2	64 ~ 71 [8]	21.9-980kbps	7 ~ 12	500
902 ~ 928	923.3 ~ 927.5	0 ~ 7 [8]	21.9-980kbps	7 ~ 12	500
Note 1: RF output power specifies that Maximum Conducted (Average) Output Power. Note 2: The device uses DTS modulation.					

1.1.2 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)	Remarks
Sercomm	61723000SG	Dipole	R-SMA	0.70	External Antenna
Sercomm	61720009WA	PIFA	NA	2.30	Internal Antenna

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	48Vdc from adapter 54Vdc from PoE

Note: The above PoE power supply is not bundled in market.

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	Adapter	Brand: MASS POWER Model: S024-1E480050VU-H I/P: 100-240Vac, 50/60Hz, 0.6A O/P: 48.0Vdc, 0.5A Power Line: 2.95m non-shielded without core
2	RJ45 cable	3m non-shielded without core

1.1.5 Channel List

Frequency Range (MHz)	903.0 ~ 914.2
Channel	**Frequency (MHz)**
64	903.0
65	904.6
66	906.2
67	907.8
68	909.4
69	911.0
70	912.6
71	914.2

Frequency Range (MHz)	923.3 ~ 927.5
Channel	**Frequency (MHz)**
0	923.3
1	923.9
2	924.5
3	925.1
4	925.7
5	926.3
6	926.9
7	927.5

1.1.6 Test Tool and Duty Cycle

Test Tool	Tera Term, V4.66	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	100.00%	0.00

1.1.7 Power Index of Test Tool

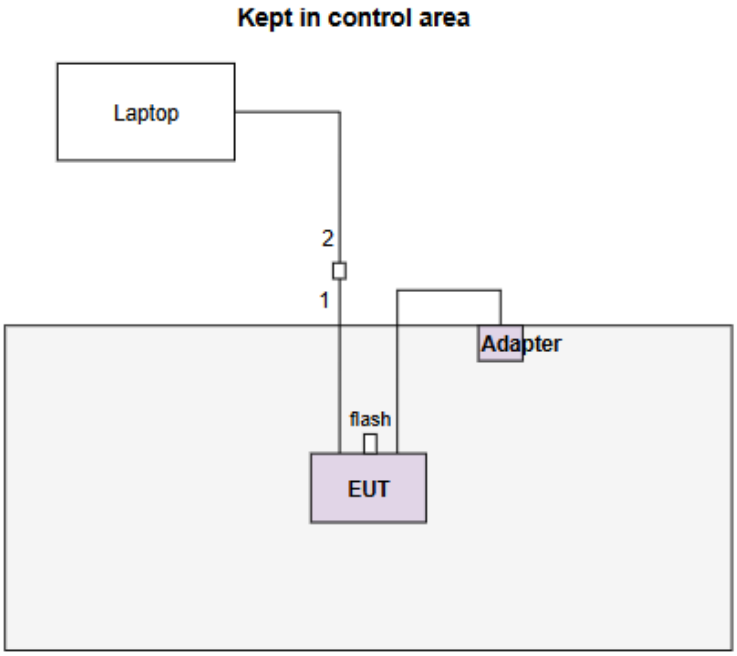
Mode	Test Frequency (MHz)	Power Index
500kHz	903.0	pa 1 -- pwid 12
500kHz	907.8	pa 1 -- pwid 12
500kHz	914.2	pa 1 -- pwid 12
500kHz	923.3	pa 1 -- pwid 11
500kHz	927.5	pa 1 -- pwid 11

1.2 Local Support Equipment List

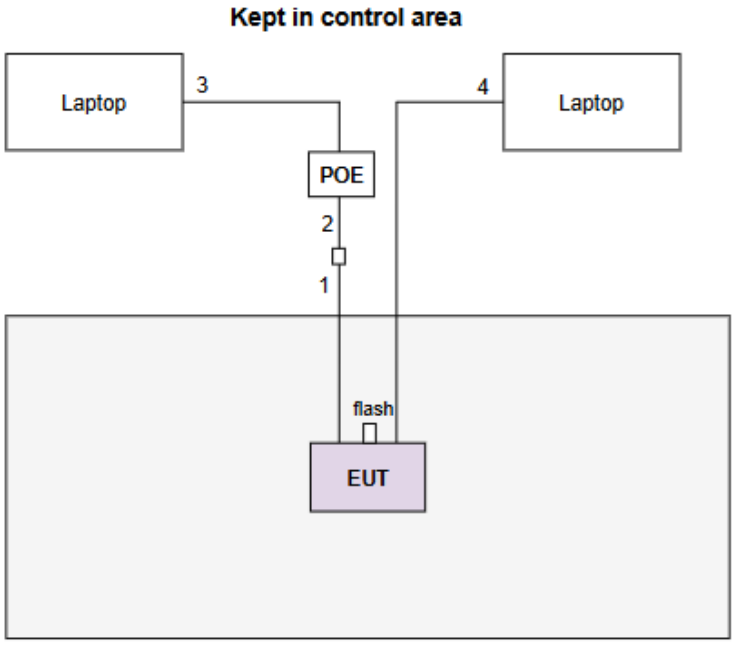
Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Laptop	DELL	Latitude 3440	DoC	---
2	Laptop	DELL	Latitude 5400	DoC	---
3	USB 3.1 Type-C OTG Flash	pqi	Connect 313	---	---
4	PoE	UBIQUITI	POE-54V-80W	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram (Adapter mode)



No.	Signal cable / Length (m)
1	RJ45, 3m non-shielded.
2	RJ45, 10m non-shielded.

Test Setup Diagram (PoE mode)


No.	Signal cable / Length (m)
1	RJ45, 3m non-shielded.
2	RJ45, 10m non-shielded.
3	RJ45, 1.3m non-shielded.
4	RJ45, 10m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jun. 04, 2024				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 23, 2024	Feb. 22, 2025
LISN	R&S	ENV216	101579	May 09, 2024	May 08, 2025
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 11, 2023	Oct. 10, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127666	Mar. 05, 2024	Mar. 04, 2025
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	May 20 ~ May 21, 2024				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 05, 2024	Mar. 04, 2025
Spectrum Analyzer	R&S	FSV40	101499	Apr. 02, 2024	Apr. 01, 2025
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 04, 2023	Jul. 03, 2024
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 14, 2023	Dec. 13, 2024
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 30, 2023	Oct. 29, 2024
Preamplifier	EMC	EMC02325	980187	Jul. 10, 2023	Jul. 09, 2024
Preamplifier	EMC	EMC118A45SE	980897	Aug. 01, 2023	Jul. 31, 2024
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 03, 2023	Oct. 02, 2024
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Sep. 22, 2023	Sep. 21, 2024
LF cable-3M	EMC	EMC8D-NM-NM-300 0	131103	Sep. 22, 2023	Sep. 21, 2024
LF cable-13M	EMC	EMC8D-NM-NM-130 00	131104	Sep. 22, 2023	Sep. 21, 2024
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 22, 2023	Sep. 21, 2024
RF cable-8M	EMC	EMC104-SM-SM-80 00	181107	Sep. 22, 2023	Sep. 21, 2024
Attenuator	Pasternack	PE7005-10	10-3	Sep. 27, 2023	Sep. 26, 2024
HIGHPASS FILTER	WI	WHK3.1-18G-10SS	43	Sep. 27, 2023	Sep. 26, 2024
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jun. 03, 2024				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV3044	101516	Jun. 27, 2023	Jun. 26, 2024
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2024	Apr. 17, 2025
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2023	Nov. 20, 2024
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2023	Nov. 20, 2024
Attenuator	Pasternack	PE7005-20	20-1	Oct. 05, 2023	Oct. 04, 2024
Measurement Software	Sporton	SENSE-15247_FS	V5.10.8	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.96 dB
Unwanted Emission > 1GHz	±4.51 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Channel Bandwidth (kHz)	Test Frequency (MHz)	Separating Factor	Test Configuration
AC Power Line Conducted Emission	500kHz 500kHz	903.0 / 907.8 / 914.2 923.3 / 927.5	SF12 SF12	1, 2
Unwanted Emissions ≤ 1GHz	500kHz 500kHz	903.0 / 907.8 / 914.2 923.3 / 927.5	SF12 SF12	1, 2, 3, 4
Unwanted Emissions > 1GHz	500kHz 500kHz	903.0 / 907.8 / 914.2 923.3 / 927.5	SF12 SF12	2, 4
Conducted Output Power 6dB bandwidth Power spectral density	500kHz 500kHz	903.0 / 907.8 / 914.2 923.3 / 927.5	SF12 SF12	2

NOTE:
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. Test Configurations are listed as below:
   1) Test Configuration 1: External antenna, adapter mode
   2) Test Configuration 2: External antenna, POE mode
   3) Test Configuration 3: Internal antenna, adapter mode
   4) Test Configuration 4: Internal antenna, POE mode

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

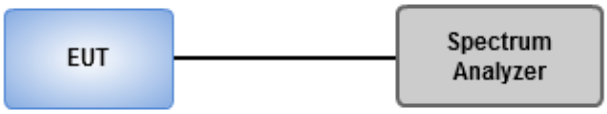
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 1% to 5% of the anticipated emission, Video bandwidth = 3x the RBW.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 10kHz, Video bandwidth = 30kHz.
2. Detector = Sample, Trace mode = max hold.
3 Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	24°C / 65%	**Tested By**	Roger Lu

Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

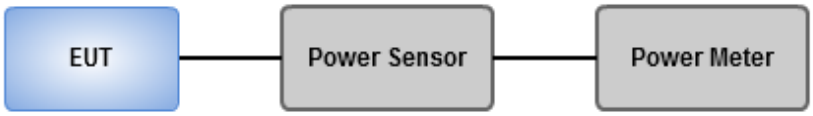
Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	24°C / 65%	**Tested By**	Roger Lu

Refer to Appendix B.

3.3 Power Spectral Density

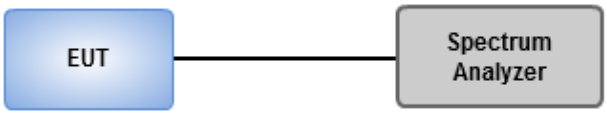
3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	24°C / 65%	**Tested By**	Roger Lu

Refer to Appendix C.

3.4 Unwanted Emissions into Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.4.2 Test Procedures

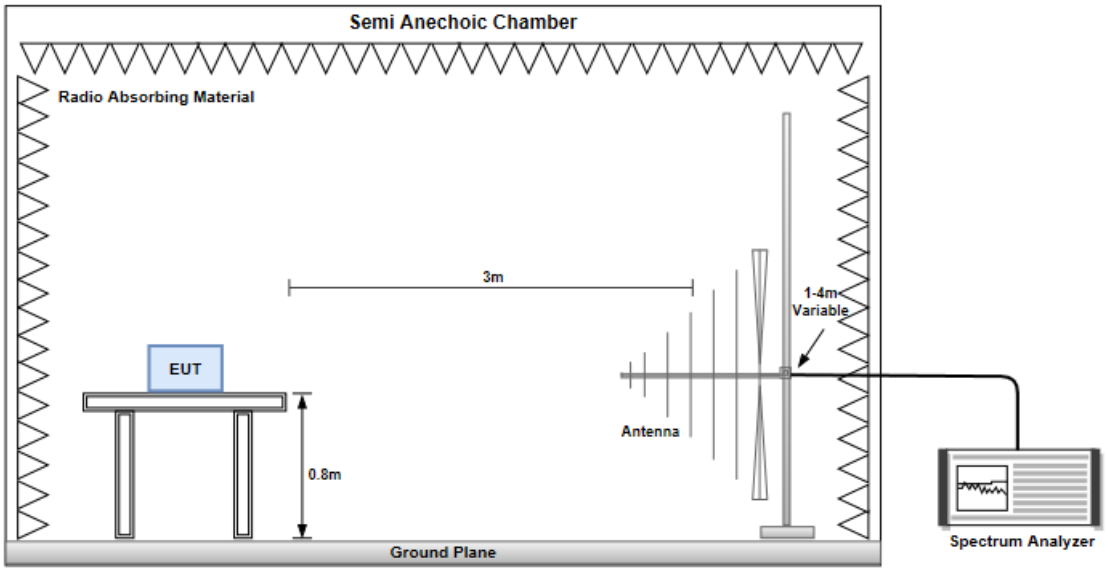
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

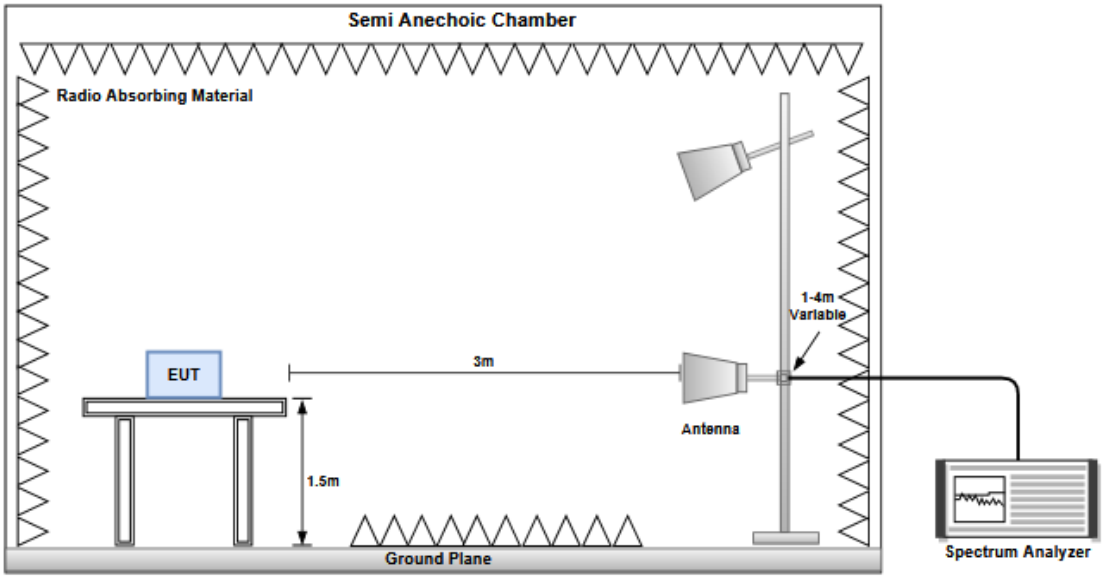
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Emissions in Non-Restricted Frequency Bands

3.5.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

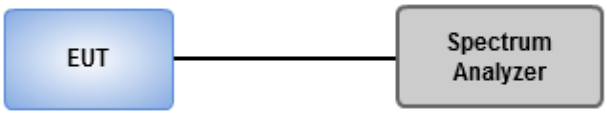
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
2. Trace = max hold, Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
2. Trace = max hold, Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	24°C / 65%	Tested By	Roger Lu

Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

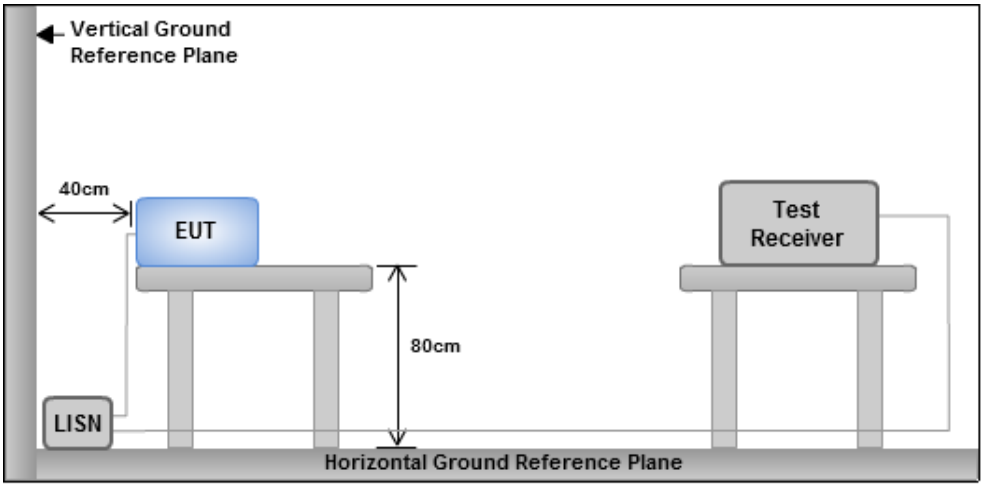
3.6.1 Limit of AC Power Line Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.6.3 Test Setup



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

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

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (500kHz)	637.5k	494.714k	495KF1D	632.5k	494.571k

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

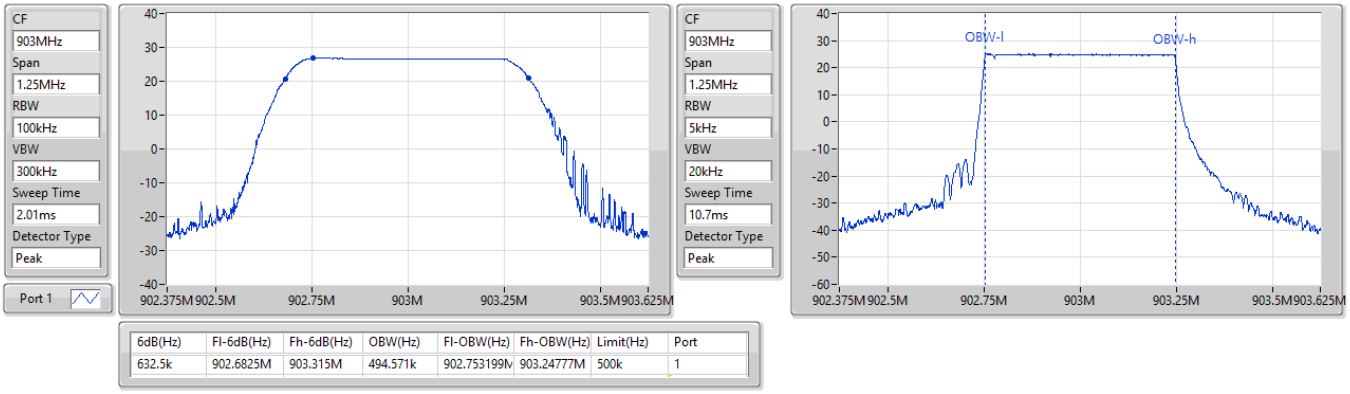
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
LoRa (500kHz)	-	-	-	-
903MHz	Pass	500k	632.5k	494.571k
907.8MHz	Pass	500k	637.5k	494.714k
914.2MHz	Pass	500k	636.25k	494.698k

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (500kHz) **EBW-DTS**

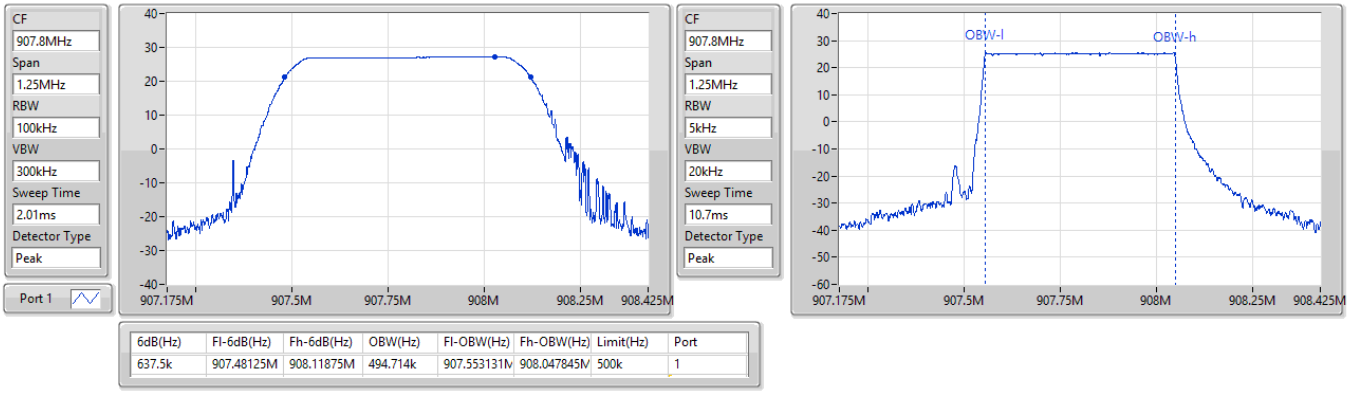
903MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
632.5k	902.6825M	903.315M	494.571k	902.753199M	903.24777M	500k	1

902-928MHz_LoRa (500kHz) **EBW-DTS**

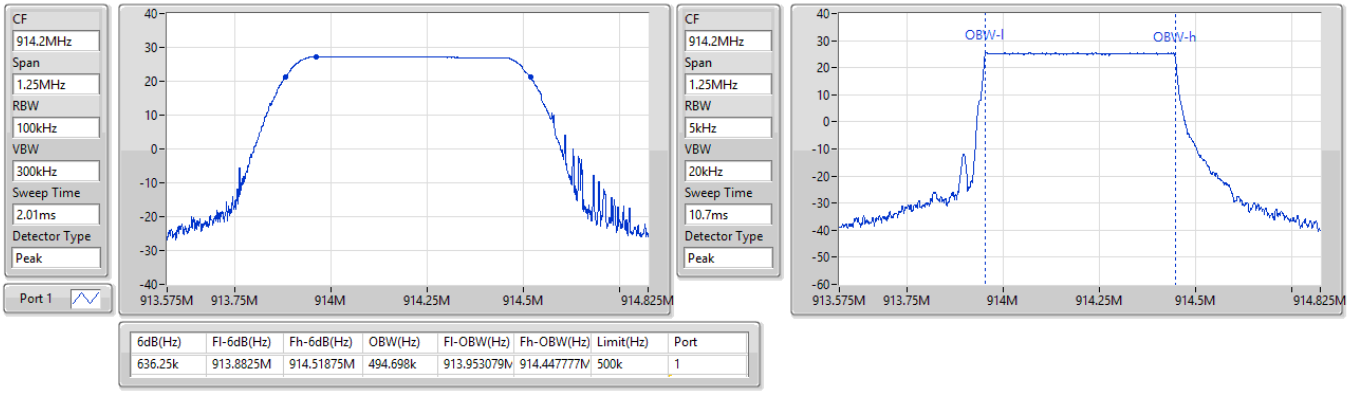
907.8MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
637.5k	907.48125M	908.11875M	494.714k	907.553131M	908.047845M	500k	1

902-928MHz_LoRa (500kHz) **EBW-DTS**

914.2MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
636.25k	913.8825M	914.51875M	494.698k	913.953079M	914.447777M	500k	1

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (500kHz)	637.5k	494.449k	494KF1D	635.625k	493.778k

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

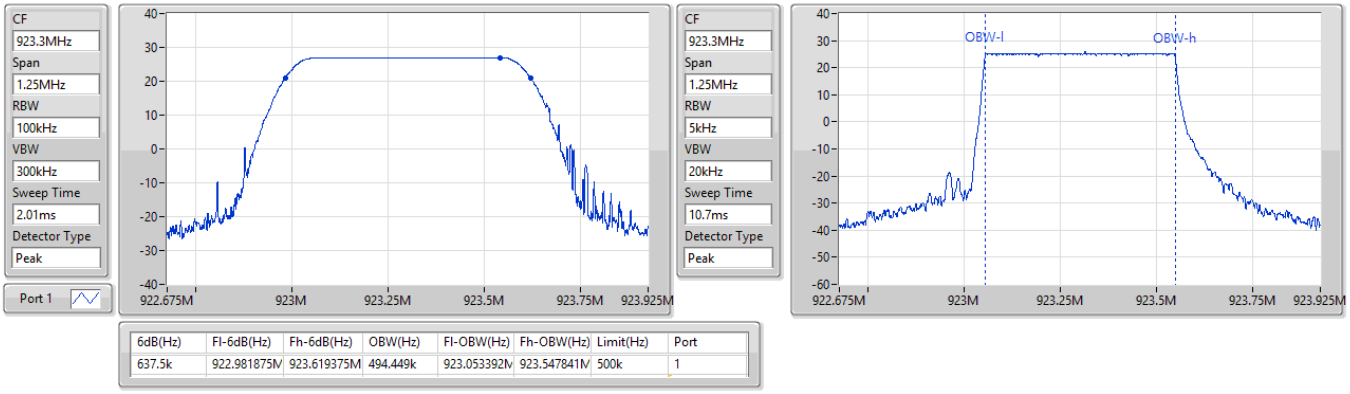
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	500k	637.5k	494.449k
927.5MHz	Pass	500k	635.625k	493.778k

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (500kHz) **EBW-DTS**

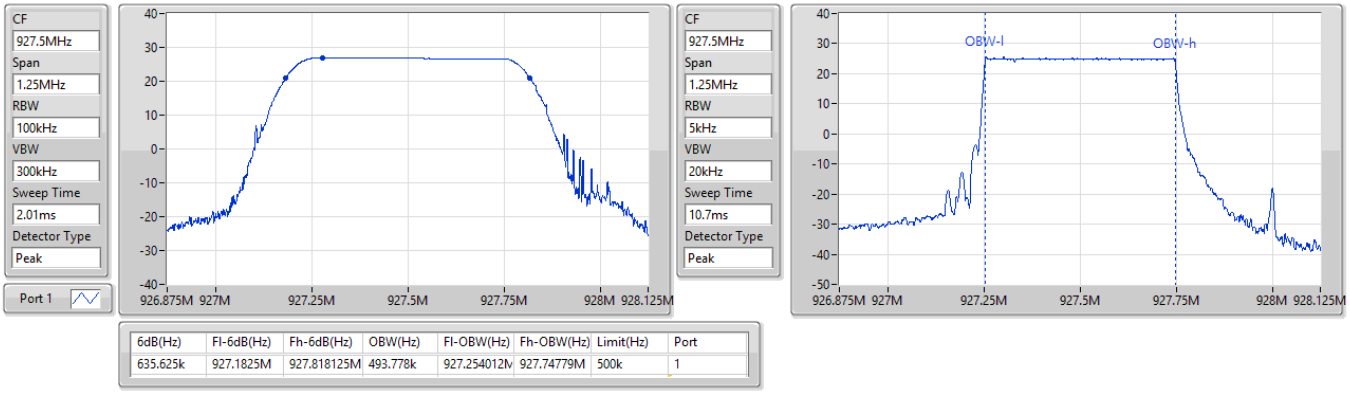
923.3MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
637.5k	922.981875M	923.619375M	494.449k	923.053392M	923.547841M	500k	1

902-928MHz_LoRa (500kHz) **EBW-DTS**

927.5MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
635.625k	927.1825M	927.818125M	493.778k	927.254012M	927.74779M	500k	1

Summary

Mode	Total Power (dBm)	Power (W)
902-928MHz	-	-
LoRa (500kHz)	27.15	0.51880

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
LoRa (500kHz)	-	-	-	-	-	-
903MHz	Pass	2.30	27.11	30.00	29.41	36.00
907.8MHz	Pass	2.30	27.15	30.00	29.45	36.00
914.2MHz	Pass	2.30	27.13	30.00	29.43	36.00

Summary

Mode	Total Power (dBm)	Power (W)
902-928MHz	-	-
LoRa (500kHz)	27.12	0.51523

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
LoRa (500kHz)	-	-	-	-	-	-
923.3MHz	Pass	2.30	27.11	30.00	29.41	36.00
927.5MHz	Pass	2.30	27.12	30.00	29.42	36.00

Summary

Mode	PD (dBm/RBW)
902-928MHz	-
LoRa (500kHz)	7.85

Result

Mode	Result	Antenna Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
LoRa (500kHz)	-	-	-	-
903MHz	Pass	2.30	7.85	8.00
907.8MHz	Pass	2.30	7.75	8.00
914.2MHz	Pass	2.30	7.77	8.00

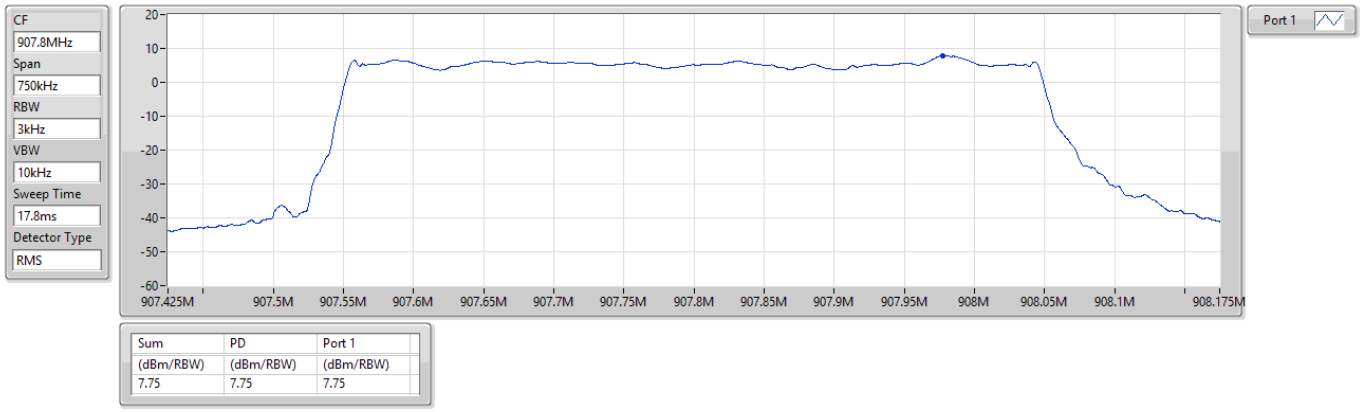
902-928MHz_LoRa (500kHz) **PSD**

903MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.85	7.85	7.85

902-928MHz_LoRa (500kHz) **PSD**

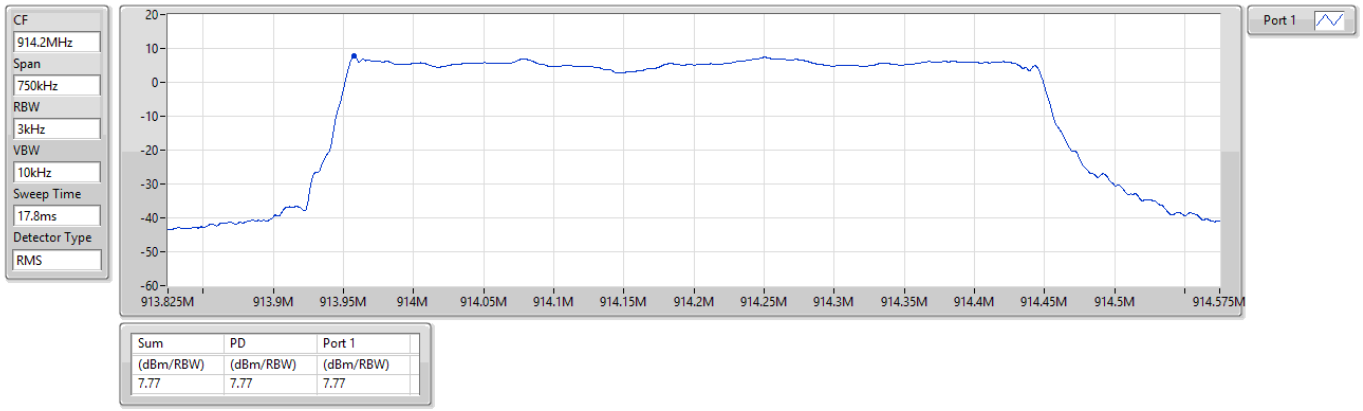
907.8MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.75	7.75	7.75

902-928MHz_LoRa (500kHz) **PSD**

914.2MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.77	7.77	7.77

Summary

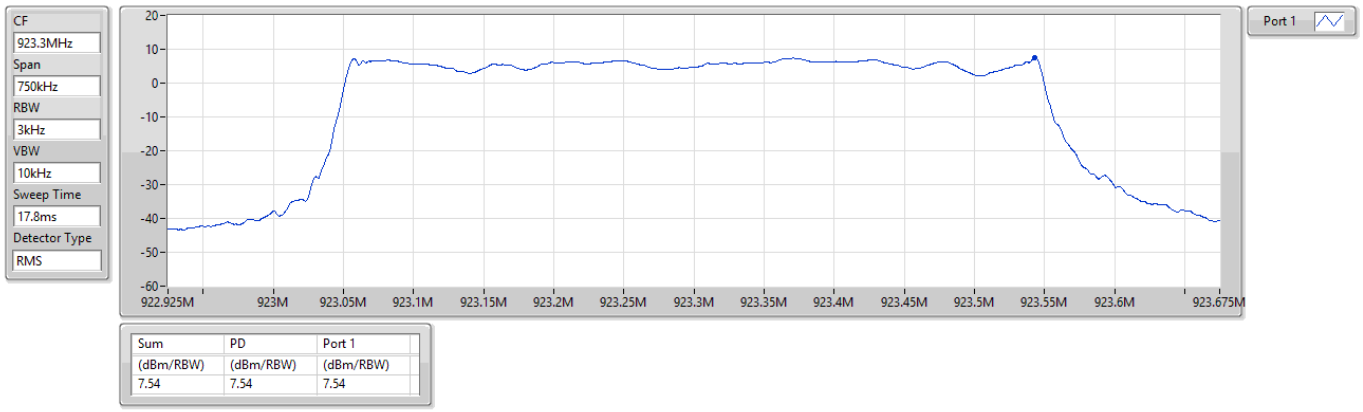
Mode	PD (dBm/RBW)
902-928MHz	-
LoRa (500kHz)	7.54

Result

Mode	Result	Antenna Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	2.30	7.54	8.00
927.5MHz	Pass	2.30	7.41	8.00

902-928MHz_LoRa (500kHz) **PSD**

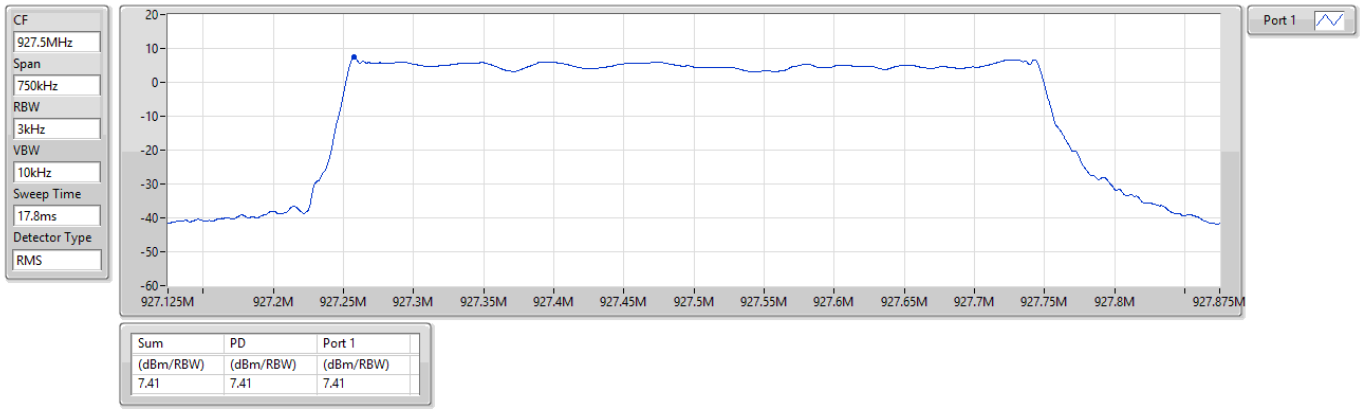
923.3MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.54	7.54	7.54

902-928MHz_LoRa (500kHz) **PSD**

927.5MHz

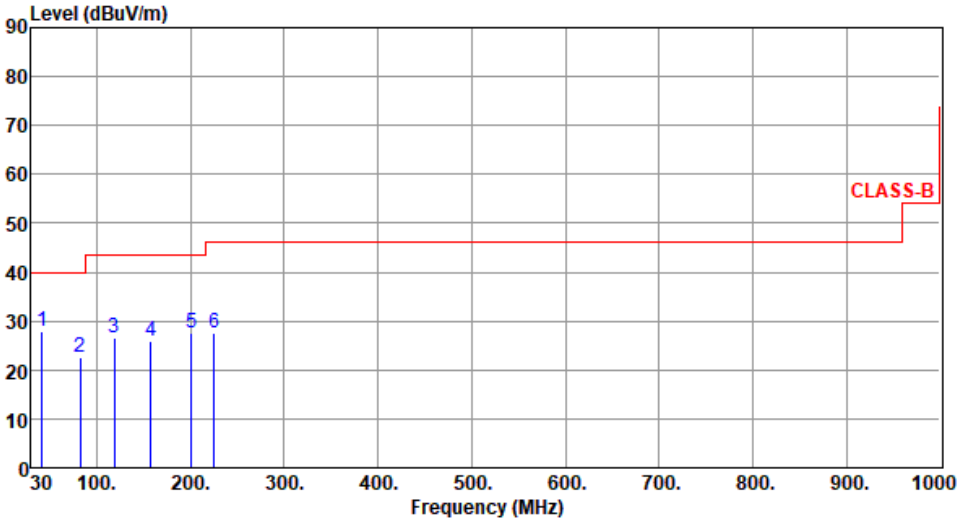


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.41	7.41	7.41

Test configuration 1: External antenna, adapter mode
Unwanted Emissions (Below 1GHz)

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

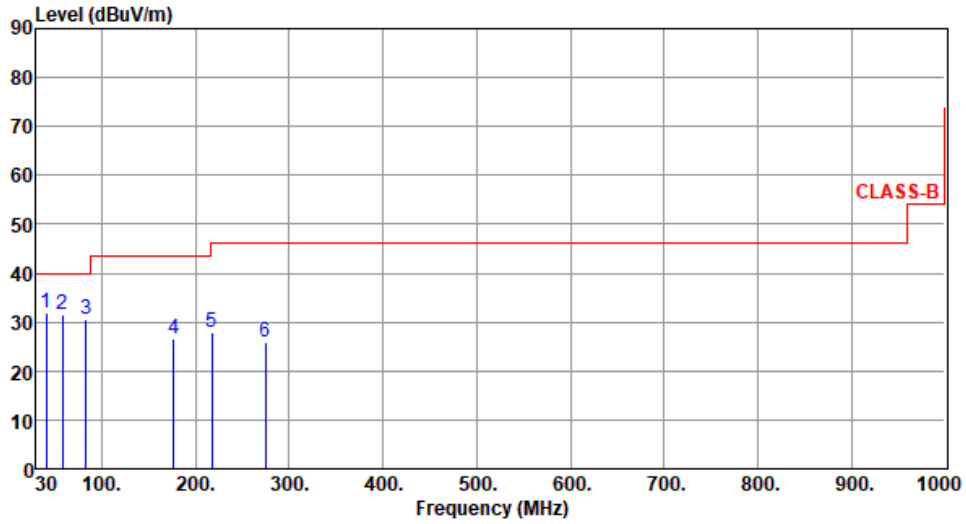


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.84	40.00	-12.16	36.40	-8.56	Peak	---	---
2	82.38	22.61	40.00	-17.39	36.33	-13.72	Peak	---	---
3	118.27	26.66	43.50	-16.84	37.87	-11.21	Peak	---	---
4	158.04	25.77	43.50	-17.73	34.27	-8.50	Peak	---	---
5	200.72	27.58	43.50	-15.92	39.34	-11.76	Peak	---	---
6	224.97	27.41	46.00	-18.59	39.54	-12.13	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

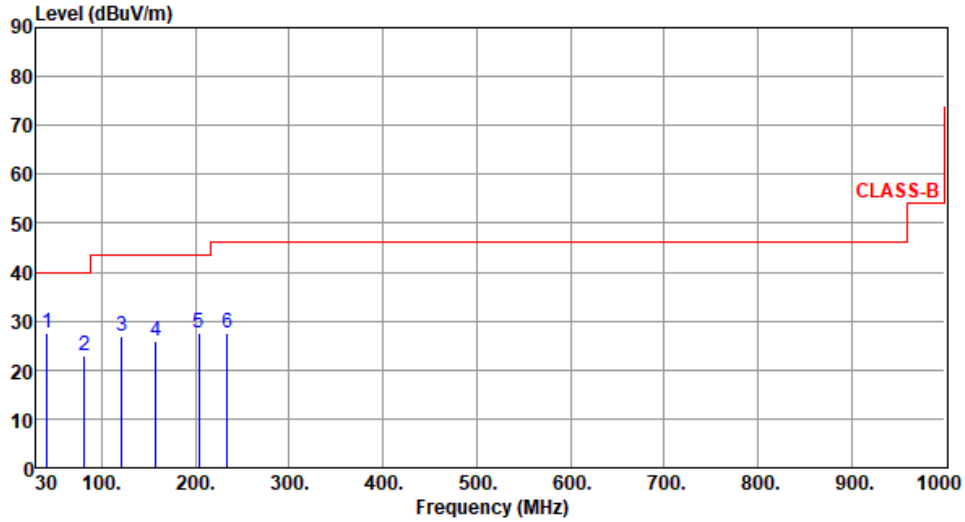


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.77	40.00	-8.23	40.47	-8.70	QP	100	3
2	58.13	31.51	40.00	-8.49	39.96	-8.45	Peak	---	---
3	83.35	30.68	40.00	-9.32	44.77	-14.09	Peak	---	---
4	176.47	26.68	43.50	-16.82	36.26	-9.58	Peak	---	---
5	217.21	27.92	46.00	-18.08	39.91	-11.99	Peak	---	---
6	274.44	25.96	46.00	-20.04	34.68	-8.72	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

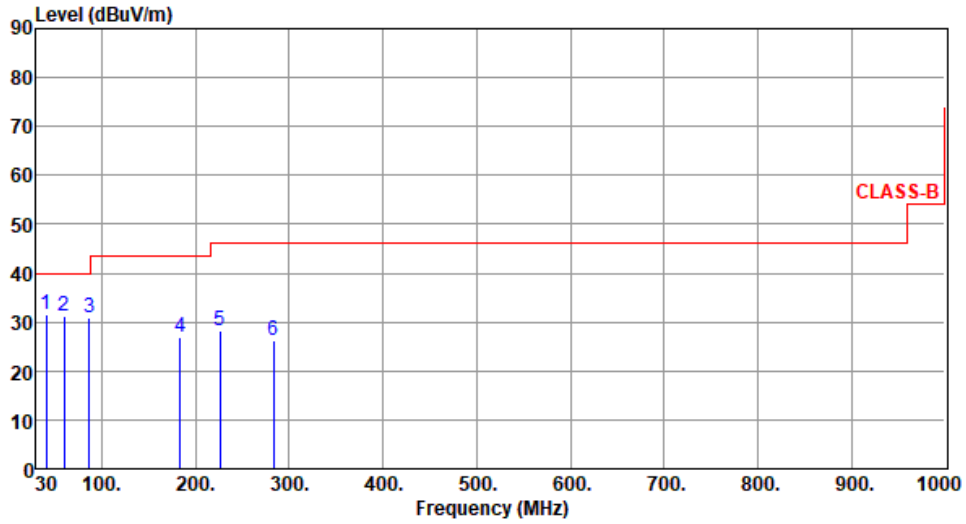


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.59	40.00	-12.41	36.15	-8.56	Peak	---	---
2	81.76	22.86	40.00	-17.14	36.39	-13.53	Peak	---	---
3	121.53	26.77	43.50	-16.73	37.68	-10.91	Peak	---	---
4	157.94	25.86	43.50	-17.64	34.36	-8.50	Peak	---	---
5	203.26	27.48	43.50	-16.02	39.29	-11.81	Peak	---	---
6	234.17	27.64	46.00	-18.36	38.26	-10.62	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

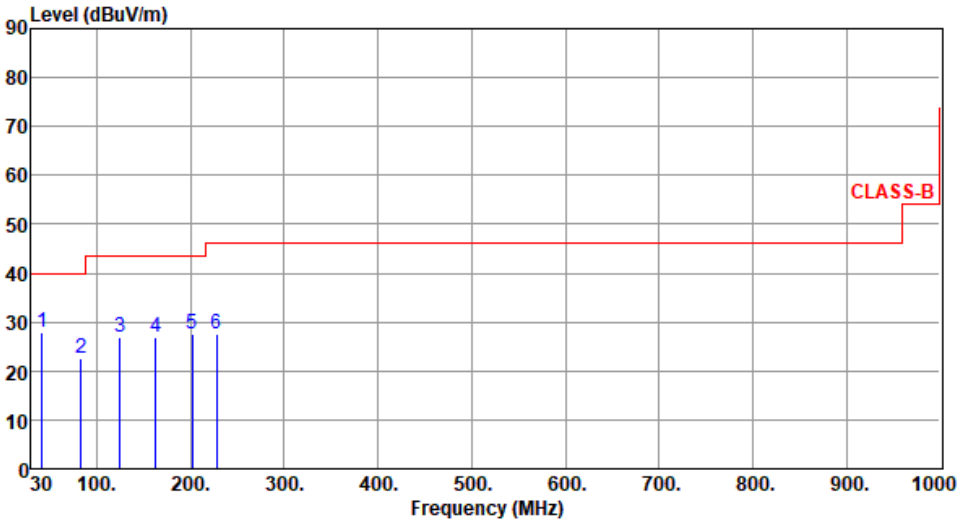


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.59	40.00	-8.41	40.29	-8.70	QP	100	2
2	59.64	31.29	40.00	-8.71	40.02	-8.73	Peak	---	---
3	86.99	30.75	40.00	-9.25	45.08	-14.33	Peak	---	---
4	183.64	26.77	43.50	-16.73	37.38	-10.61	Peak	---	---
5	226.30	28.16	46.00	-17.84	40.07	-11.91	Peak	---	---
6	283.57	26.11	46.00	-19.89	34.49	-8.38	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

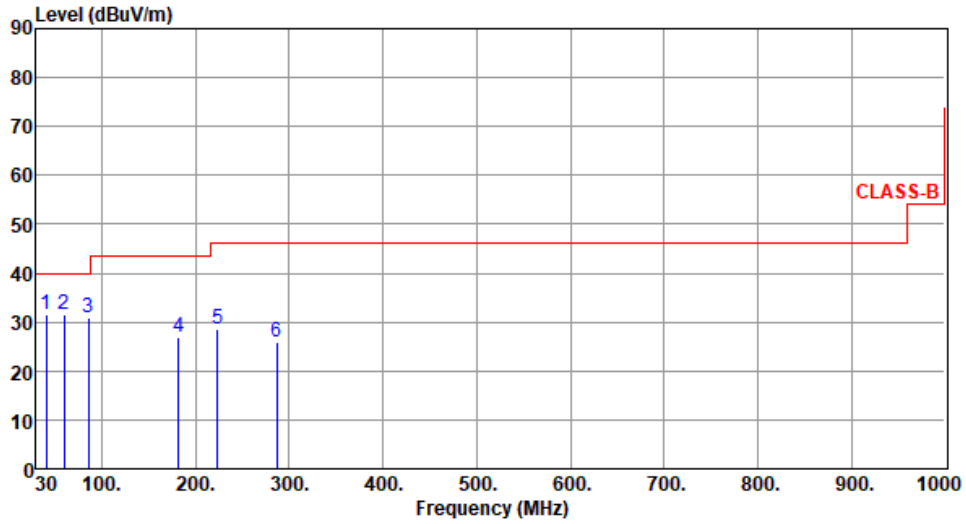


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.99	40.00	-12.01	36.55	-8.56	Peak	---	---
2	82.79	22.54	40.00	-17.46	36.47	-13.93	Peak	---	---
3	124.36	26.84	43.50	-16.66	37.61	-10.77	Peak	---	---
4	162.47	26.74	43.50	-16.76	35.37	-8.63	Peak	---	---
5	201.58	27.68	43.50	-15.82	39.45	-11.77	Peak	---	---
6	227.65	27.59	46.00	-18.41	39.29	-11.70	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

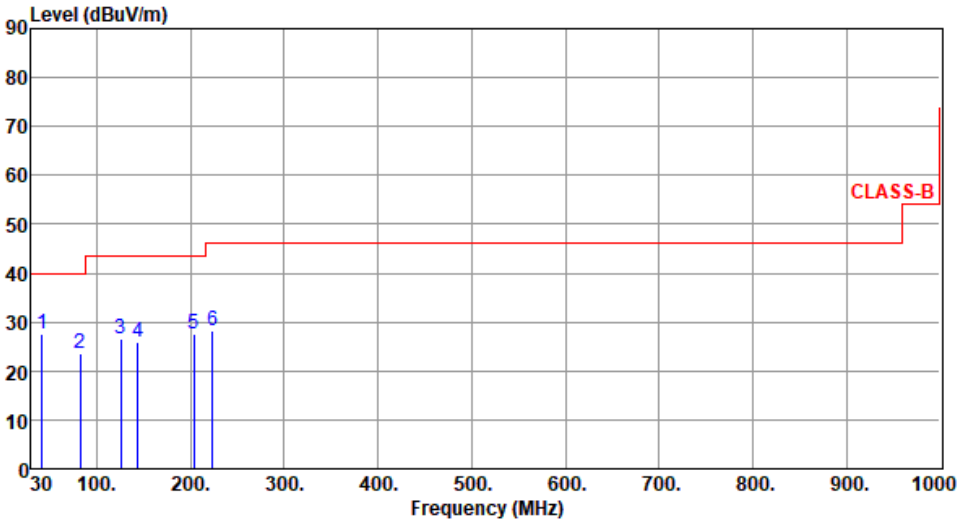


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.58	40.00	-8.42	40.28	-8.70	QP	100	1
2	59.64	31.47	40.00	-8.53	40.20	-8.73	Peak	---	---
3	85.76	30.79	40.00	-9.21	45.15	-14.36	Peak	---	---
4	182.18	26.79	43.50	-16.71	37.24	-10.45	Peak	---	---
5	223.54	28.43	46.00	-17.57	40.57	-12.14	Peak	---	---
6	286.57	25.77	46.00	-20.23	34.05	-8.28	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

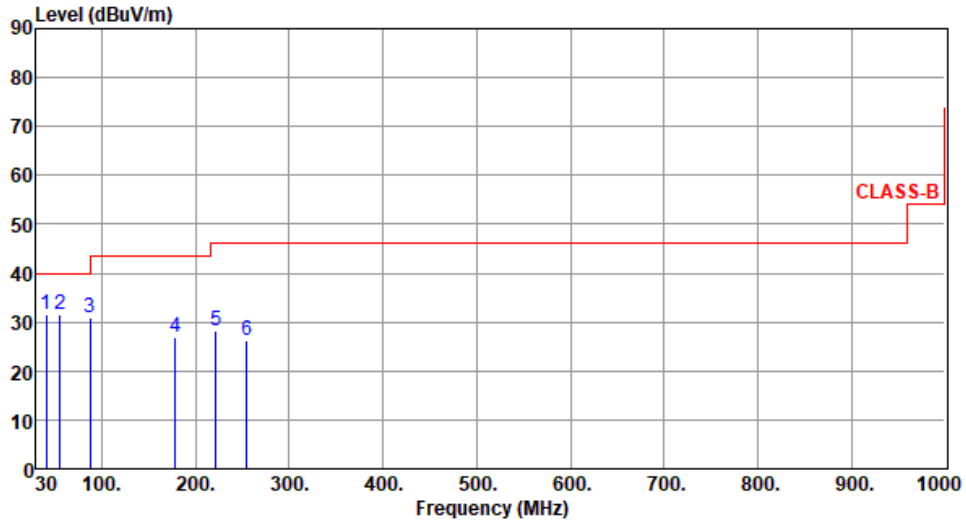


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.59	40.00	-12.41	36.15	-8.56	Peak	---	---
2	82.73	23.51	40.00	-16.49	37.40	-13.89	Peak	---	---
3	125.46	26.57	43.50	-16.93	37.13	-10.56	Peak	---	---
4	143.59	25.88	43.50	-17.62	34.52	-8.64	Peak	---	---
5	203.57	27.59	43.50	-15.91	39.39	-11.80	Peak	---	---
6	223.68	28.16	46.00	-17.84	40.30	-12.14	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

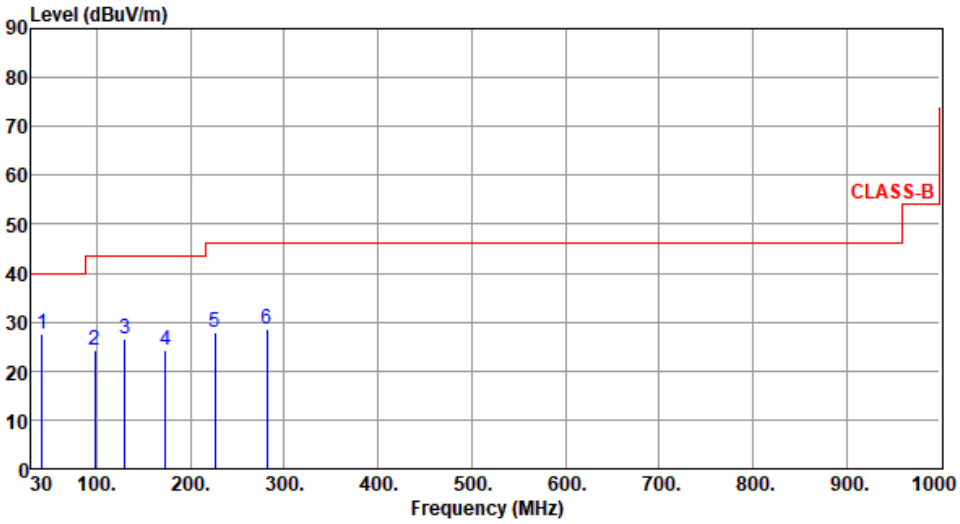


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.61	40.00	-8.39	40.31	-8.70	QP	100	2
2	55.64	31.58	40.00	-8.42	39.93	-8.35	Peak	---	---
3	87.64	30.77	40.00	-9.23	45.04	-14.27	Peak	---	---
4	178.59	26.94	43.50	-16.56	36.93	-9.99	Peak	---	---
5	221.36	28.26	46.00	-17.74	40.41	-12.15	Peak	---	---
6	254.59	26.34	46.00	-19.66	35.94	-9.60	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

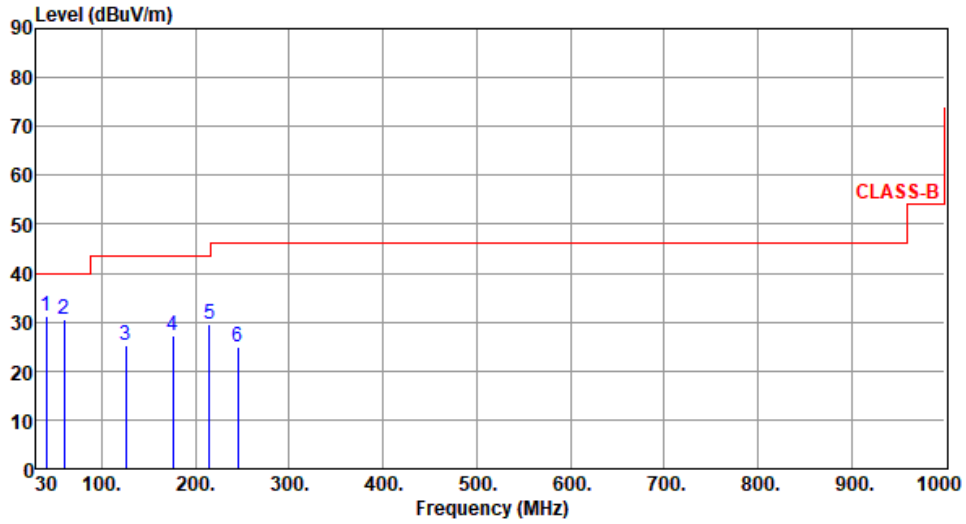


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.59	40.00	-12.41	36.15	-8.56	Peak	---	---
2	97.90	24.15	43.50	-19.35	37.59	-13.44	Peak	---	---
3	129.91	26.56	43.50	-16.94	36.69	-10.13	Peak	---	---
4	173.56	24.24	43.50	-19.26	33.55	-9.31	Peak	---	---
5	225.94	27.78	46.00	-18.22	39.76	-11.98	Peak	---	---
6	281.23	28.42	46.00	-17.58	36.86	-8.44	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66



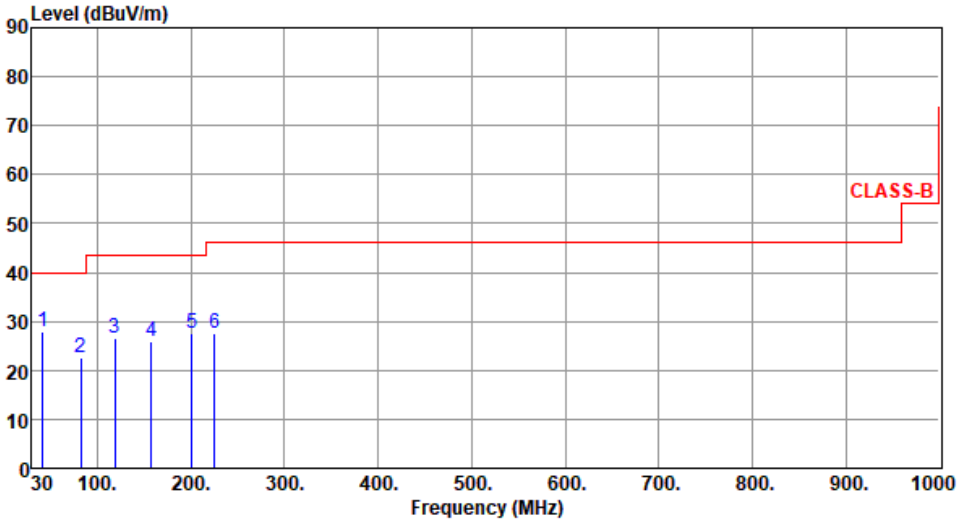
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.26	40.00	-8.74	39.96	-8.70	QP	100	5
2	60.07	30.47	40.00	-9.53	39.32	-8.85	Peak	---	---
3	126.03	25.26	43.50	-18.24	35.87	-10.61	Peak	---	---
4	175.50	27.18	43.50	-16.32	36.72	-9.54	Peak	---	---
5	215.27	29.51	43.50	-13.99	41.40	-11.89	Peak	---	---
6	245.34	24.98	46.00	-21.02	34.80	-9.82	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test configuration 2: External antenna, POE mode
Unwanted Emissions (Below 1GHz)

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

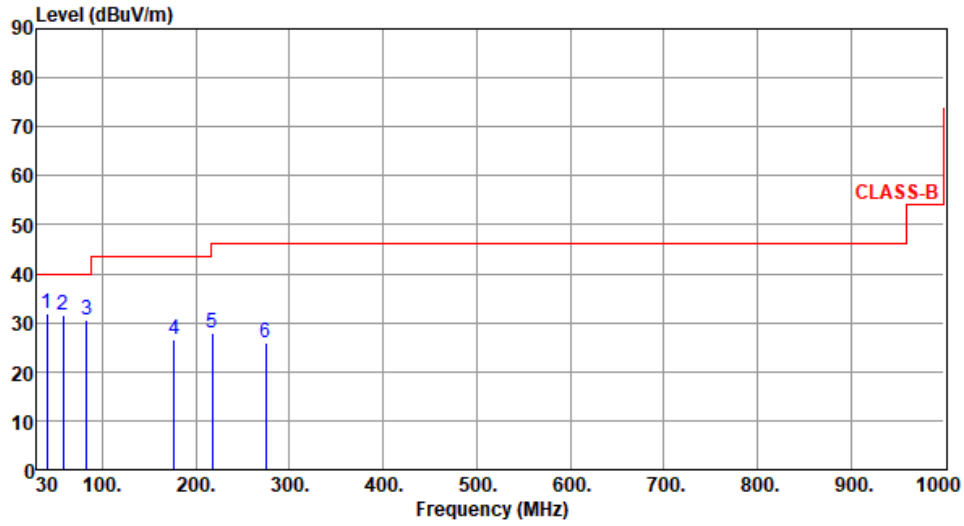


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.84	40.00	-12.16	36.40	-8.56	Peak	---	---
2	82.38	22.61	40.00	-17.39	36.33	-13.72	Peak	---	---
3	118.27	26.66	43.50	-16.84	37.87	-11.21	Peak	---	---
4	158.04	25.77	43.50	-17.73	34.27	-8.50	Peak	---	---
5	200.72	27.58	43.50	-15.92	39.34	-11.76	Peak	---	---
6	224.97	27.41	46.00	-18.59	39.54	-12.13	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

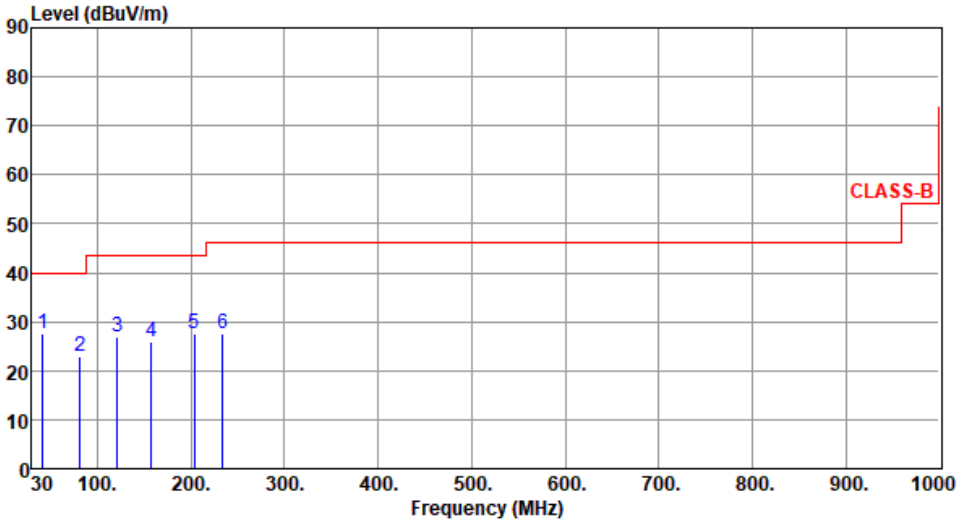


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.77	40.00	-8.23	40.47	-8.70	QP	100	3
2	58.13	31.51	40.00	-8.49	39.96	-8.45	Peak	---	---
3	83.35	30.68	40.00	-9.32	44.77	-14.09	Peak	---	---
4	176.47	26.68	43.50	-16.82	36.26	-9.58	Peak	---	---
5	217.21	27.92	46.00	-18.08	39.91	-11.99	Peak	---	---
6	274.44	25.96	46.00	-20.04	34.68	-8.72	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

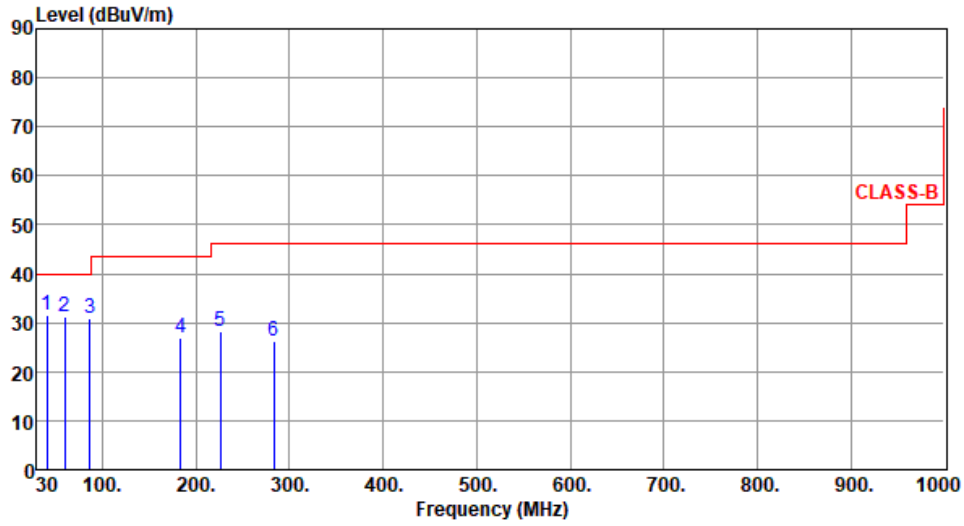


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.59	40.00	-12.41	36.15	-8.56	Peak	---	---
2	81.76	22.86	40.00	-17.14	36.39	-13.53	Peak	---	---
3	121.53	26.77	43.50	-16.73	37.68	-10.91	Peak	---	---
4	157.94	25.86	43.50	-17.64	34.36	-8.50	Peak	---	---
5	203.26	27.48	43.50	-16.02	39.29	-11.81	Peak	---	---
6	234.17	27.64	46.00	-18.36	38.26	-10.62	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

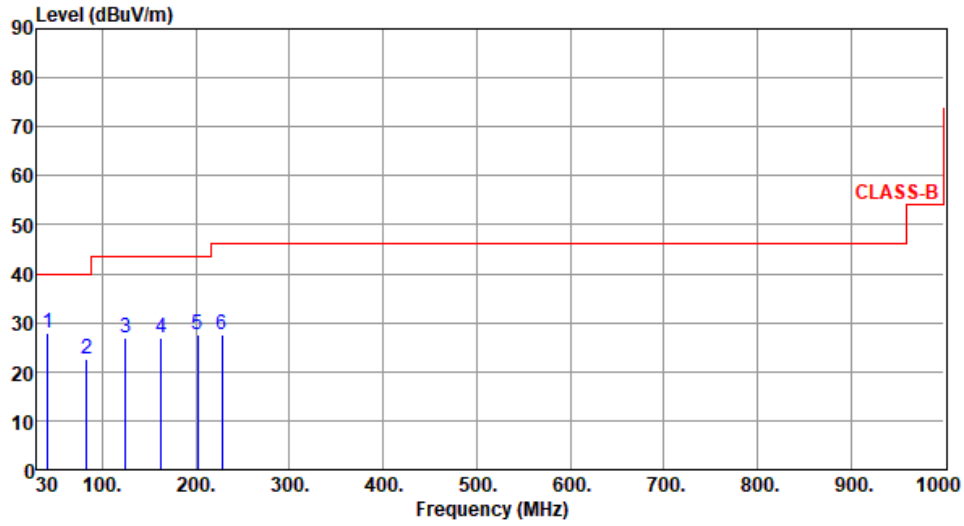


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.59	40.00	-8.41	40.29	-8.70	QP	100	2
2	59.64	31.29	40.00	-8.71	40.02	-8.73	Peak	---	---
3	86.99	30.75	40.00	-9.25	45.08	-14.33	Peak	---	---
4	183.64	26.77	43.50	-16.73	37.38	-10.61	Peak	---	---
5	226.30	28.16	46.00	-17.84	40.07	-11.91	Peak	---	---
6	283.57	26.11	46.00	-19.89	34.49	-8.38	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

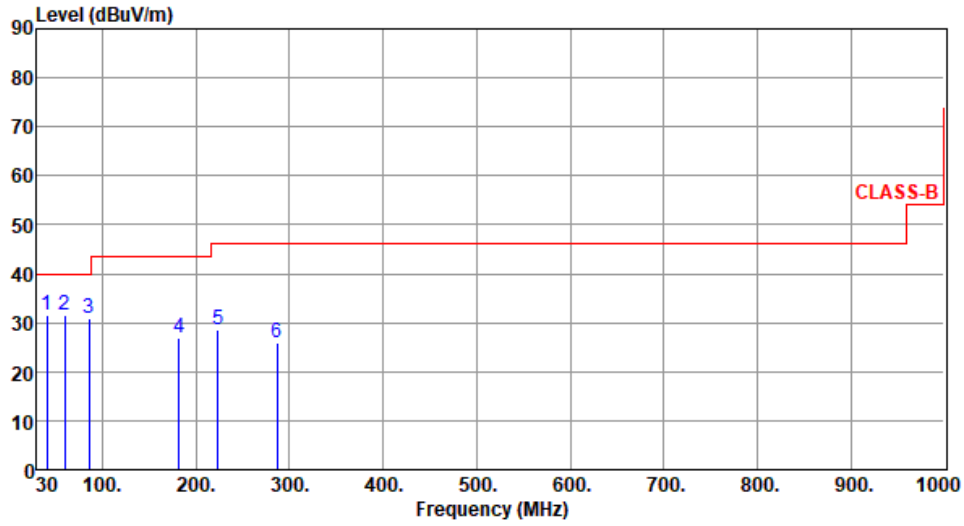


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.99	40.00	-12.01	36.55	-8.56	Peak	---	---
2	82.79	22.54	40.00	-17.46	36.47	-13.93	Peak	---	---
3	124.36	26.84	43.50	-16.66	37.61	-10.77	Peak	---	---
4	162.47	26.74	43.50	-16.76	35.37	-8.63	Peak	---	---
5	201.58	27.68	43.50	-15.82	39.45	-11.77	Peak	---	---
6	227.65	27.59	46.00	-18.41	39.29	-11.70	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

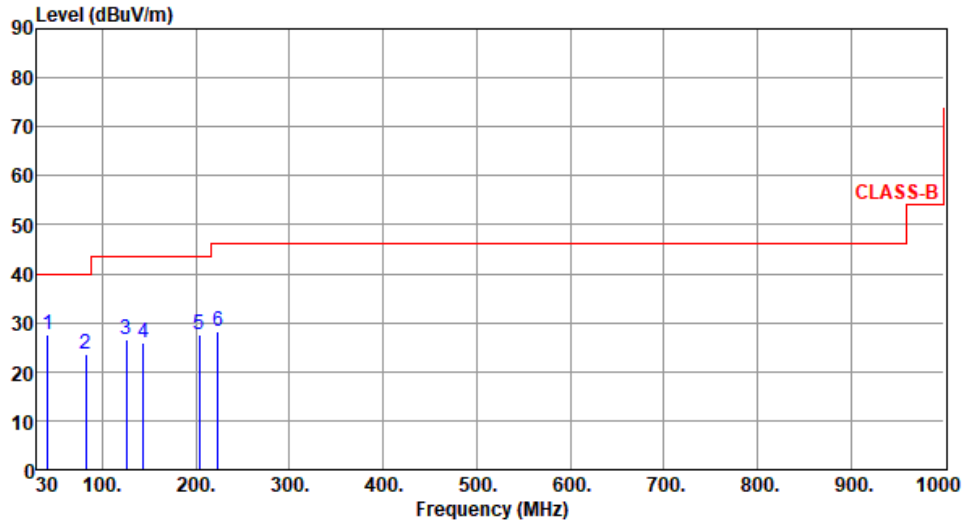


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.58	40.00	-8.42	40.28	-8.70	QP	100	1
2	59.64	31.47	40.00	-8.53	40.20	-8.73	Peak	---	---
3	85.76	30.79	40.00	-9.21	45.15	-14.36	Peak	---	---
4	182.18	26.79	43.50	-16.71	37.24	-10.45	Peak	---	---
5	223.54	28.43	46.00	-17.57	40.57	-12.14	Peak	---	---
6	286.57	25.77	46.00	-20.23	34.05	-8.28	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

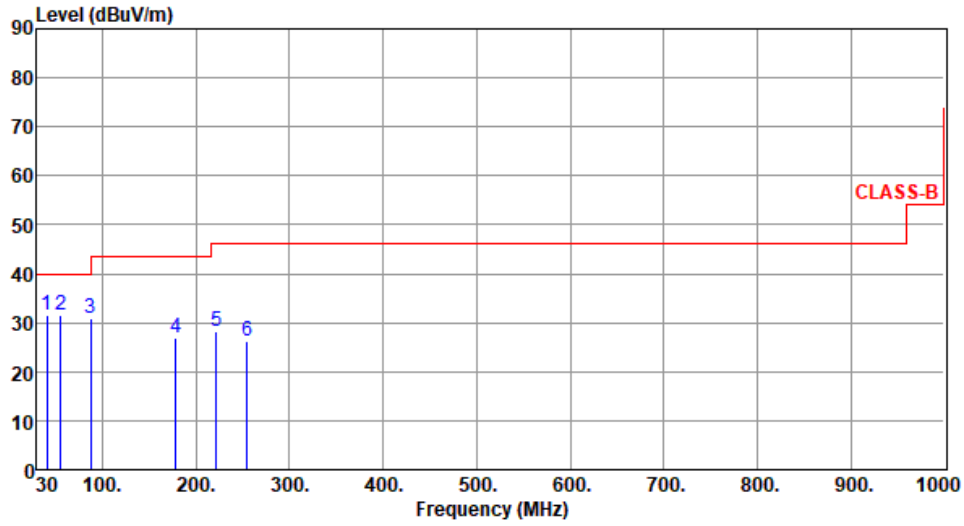


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.59	40.00	-12.41	36.15	-8.56	Peak	---	---
2	82.73	23.51	40.00	-16.49	37.40	-13.89	Peak	---	---
3	125.46	26.57	43.50	-16.93	37.13	-10.56	Peak	---	---
4	143.59	25.88	43.50	-17.62	34.52	-8.64	Peak	---	---
5	203.57	27.59	43.50	-15.91	39.39	-11.80	Peak	---	---
6	223.68	28.16	46.00	-17.84	40.30	-12.14	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

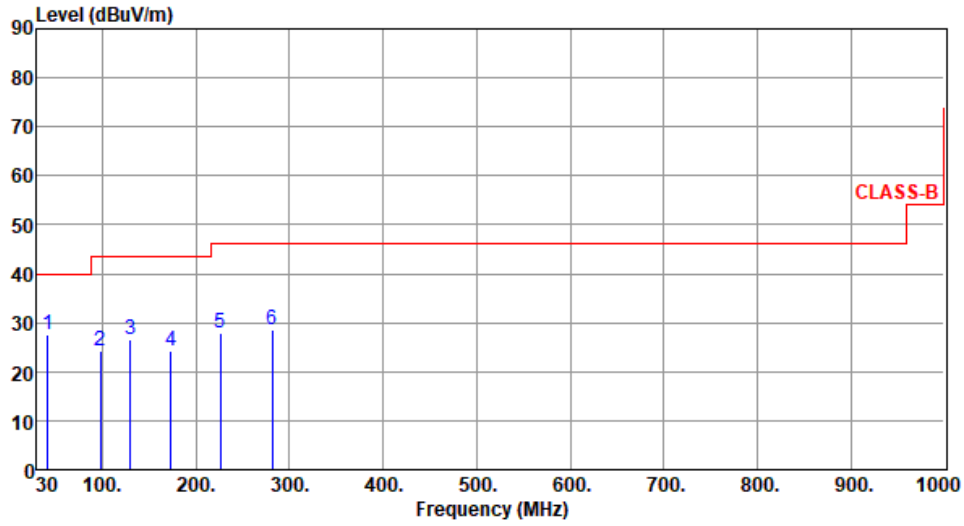


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.61	40.00	-8.39	40.31	-8.70	QP	100	2
2	55.64	31.58	40.00	-8.42	39.93	-8.35	Peak	---	---
3	87.64	30.77	40.00	-9.23	45.04	-14.27	Peak	---	---
4	178.59	26.94	43.50	-16.56	36.93	-9.99	Peak	---	---
5	221.36	28.26	46.00	-17.74	40.41	-12.15	Peak	---	---
6	254.59	26.34	46.00	-19.66	35.94	-9.60	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

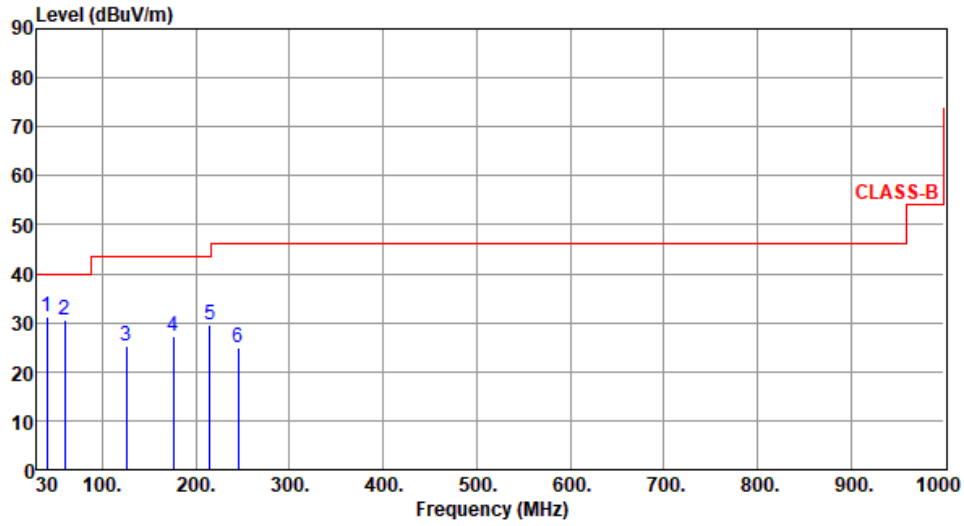


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	41.64	27.59	40.00	-12.41	36.15	-8.56	Peak	---	---
2	97.90	24.15	43.50	-19.35	37.59	-13.44	Peak	---	---
3	129.91	26.56	43.50	-16.94	36.69	-10.13	Peak	---	---
4	173.56	24.24	43.50	-19.26	33.55	-9.31	Peak	---	---
5	225.94	27.78	46.00	-18.22	39.76	-11.98	Peak	---	---
6	281.23	28.42	46.00	-17.58	36.86	-8.44	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66



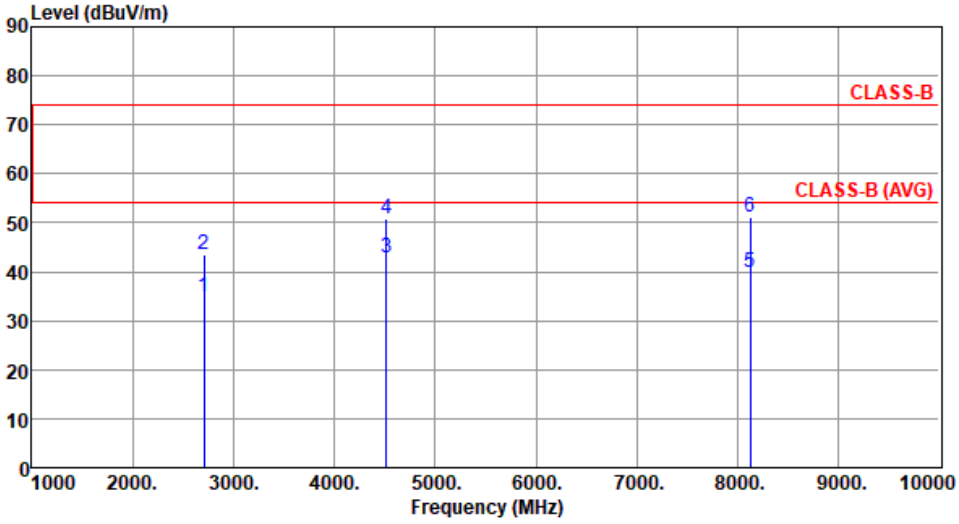
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.26	40.00	-8.74	39.96	-8.70	QP	100	5
2	60.07	30.47	40.00	-9.53	39.32	-8.85	Peak	---	---
3	126.03	25.26	43.50	-18.24	35.87	-10.61	Peak	---	---
4	175.50	27.18	43.50	-16.32	36.72	-9.54	Peak	---	---
5	215.27	29.51	43.50	-13.99	41.40	-11.89	Peak	---	---
6	245.34	24.98	46.00	-21.02	34.80	-9.82	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Unwanted Emissions (Above 1GHz)

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

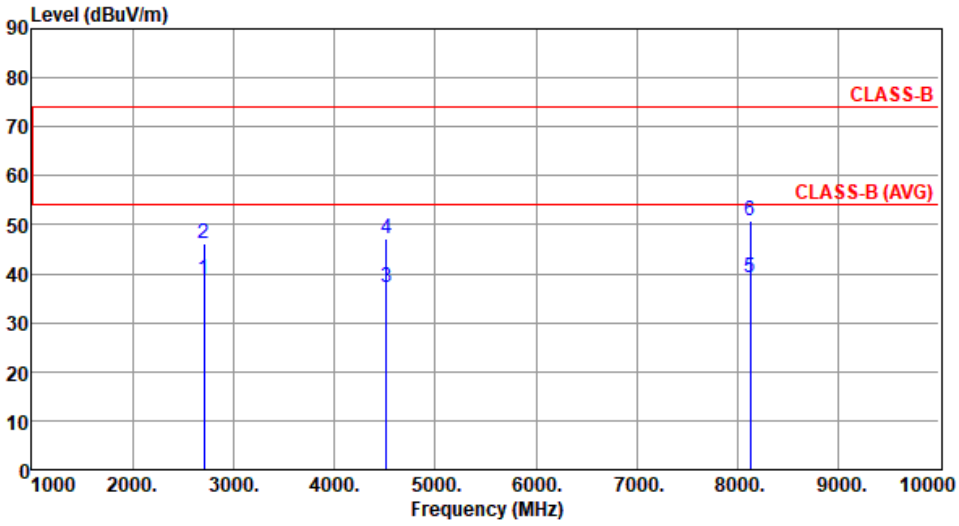


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2709.00	34.77	54.00	-19.23	38.23	-3.46	Average	189	277
2	2709.00	43.40	74.00	-30.60	46.86	-3.46	Peak	189	277
3	4515.00	42.93	54.00	-11.07	43.36	-0.43	Average	116	30
4	4515.00	50.76	74.00	-23.24	51.19	-0.43	Peak	116	30
5	8127.00	39.93	54.00	-14.07	33.94	5.99	Average	140	321
6	8127.00	51.02	74.00	-22.98	45.03	5.99	Peak	140	321

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

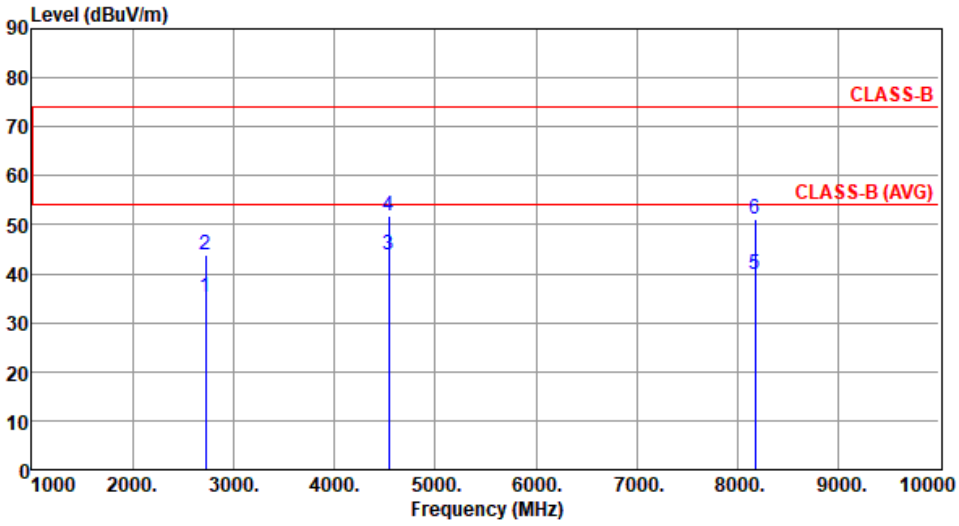


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2709.00	38.92	54.00	-15.08	42.38	-3.46	Average	263	3
2	2709.00	46.02	74.00	-27.98	49.48	-3.46	Peak	263	3
3	4515.00	37.33	54.00	-16.67	37.76	-0.43	Average	100	76
4	4515.00	47.10	74.00	-26.90	47.53	-0.43	Peak	100	76
5	8127.00	39.05	54.00	-14.95	33.06	5.99	Average	100	20
6	8127.00	50.74	74.00	-23.26	44.75	5.99	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

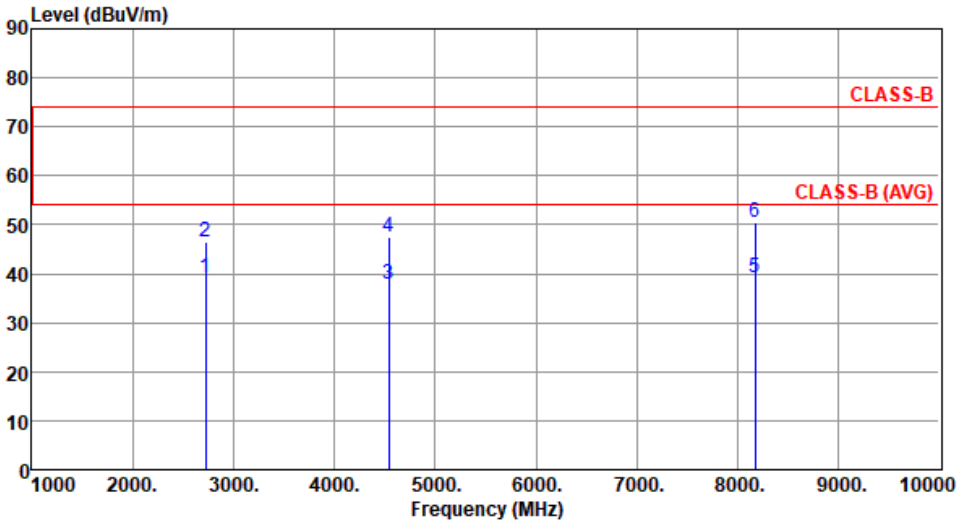


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2723.40	35.13	54.00	-18.87	38.48	-3.35	Average	193	281
2	2723.40	43.67	74.00	-30.33	47.02	-3.35	Peak	193	281
3	4539.00	43.83	54.00	-10.17	44.15	-0.32	Average	115	32
4	4539.00	51.93	74.00	-22.07	52.25	-0.32	Peak	115	32
5	8170.20	39.89	54.00	-14.11	34.08	5.81	Average	141	320
6	8170.20	51.00	74.00	-23.00	45.19	5.81	Peak	141	320

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

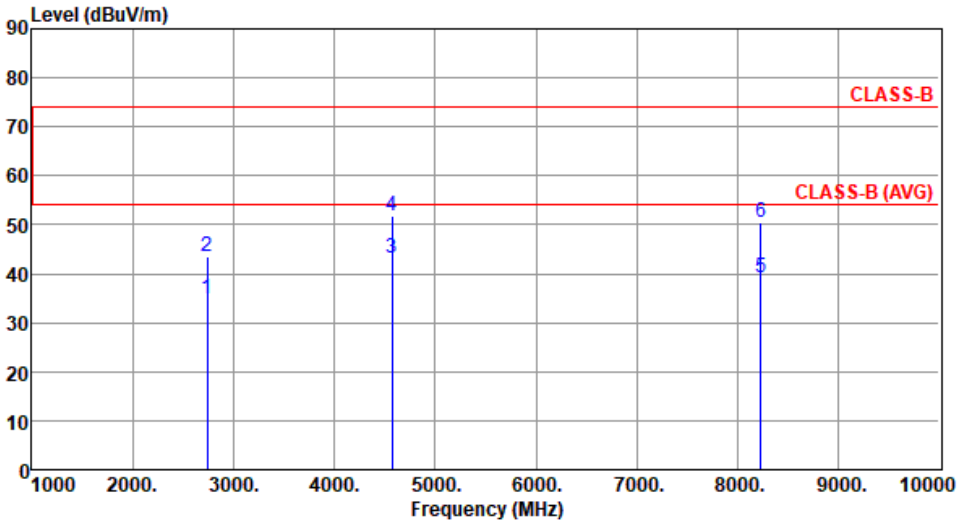


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2723.40	39.18	54.00	-14.82	42.53	-3.35	Average	262	1
2	2723.40	46.33	74.00	-27.67	49.68	-3.35	Peak	262	1
3	4539.00	37.72	54.00	-16.28	38.04	-0.32	Average	100	71
4	4539.00	47.42	74.00	-26.58	47.74	-0.32	Peak	100	71
5	8170.20	39.10	54.00	-14.90	33.29	5.81	Average	100	18
6	8170.20	50.64	74.00	-23.36	44.83	5.81	Peak	100	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

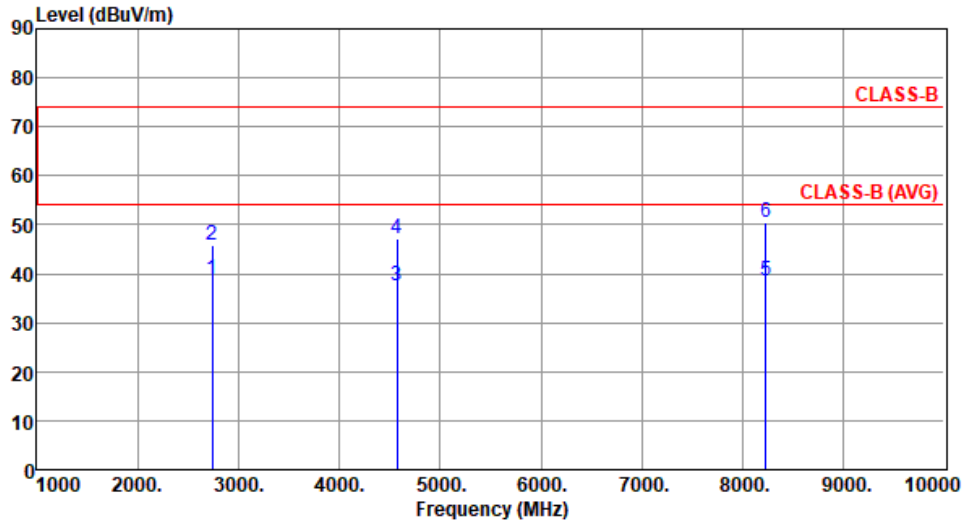


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2742.60	34.92	54.00	-19.08	38.25	-3.33	Average	186	279
2	2742.60	43.44	74.00	-30.56	46.77	-3.33	Peak	186	279
3	4571.00	43.10	54.00	-10.90	43.38	-0.28	Average	118	29
4	4571.00	51.71	74.00	-22.29	51.99	-0.28	Peak	118	29
5	8227.80	39.33	54.00	-14.67	33.82	5.51	Average	142	330
6	8227.80	50.62	74.00	-23.38	45.11	5.51	Peak	142	330

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

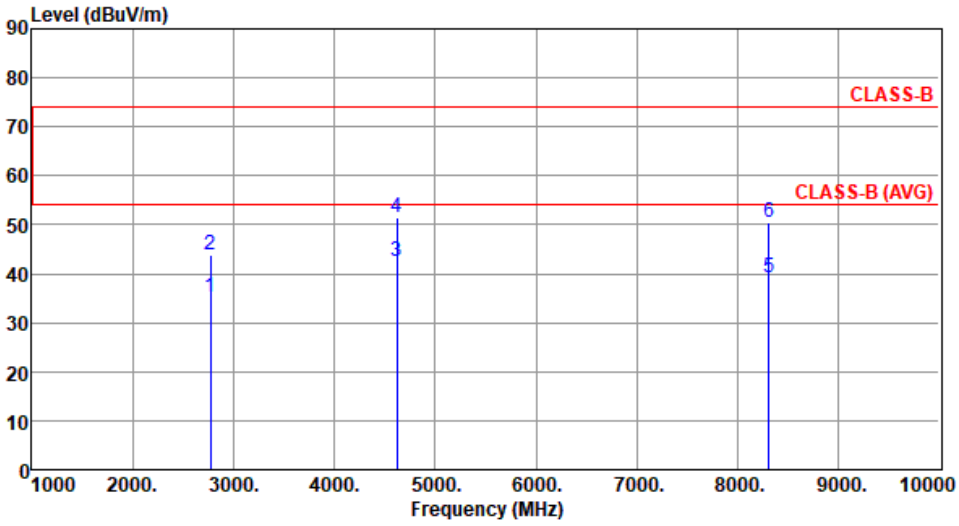


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2742.60	38.92	54.00	-15.08	42.25	-3.33	Average	260	2
2	2742.60	45.99	74.00	-28.01	49.32	-3.33	Peak	260	2
3	4571.00	37.49	54.00	-16.51	37.77	-0.28	Average	100	76
4	4571.00	47.21	74.00	-26.79	47.49	-0.28	Peak	100	76
5	8227.80	38.69	54.00	-15.31	33.18	5.51	Average	100	21
6	8227.80	50.37	74.00	-23.63	44.86	5.51	Peak	100	21

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

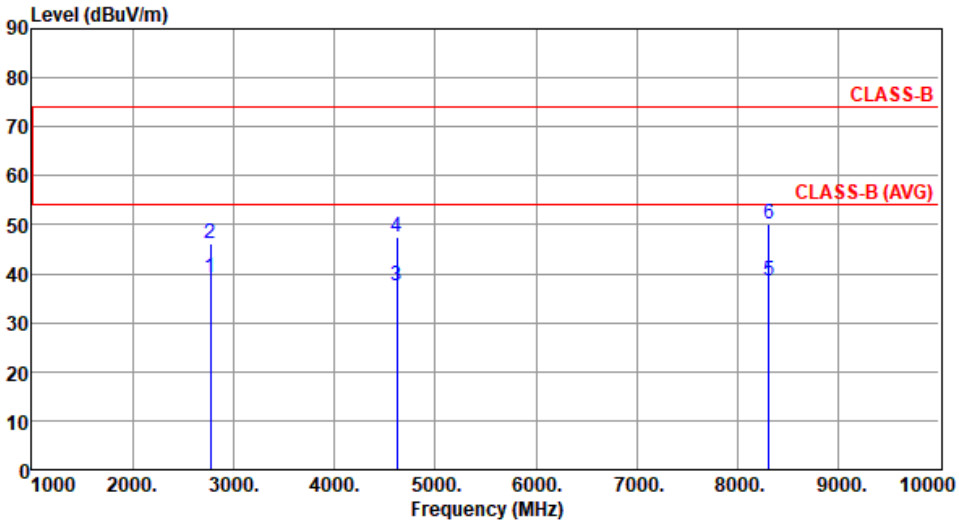


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2769.90	35.08	54.00	-18.92	38.31	-3.23	Average	191	277
2	2769.90	43.87	74.00	-30.13	47.10	-3.23	Peak	191	277
3	4616.50	42.65	54.00	-11.35	42.85	-0.20	Average	118	30
4	4616.50	51.37	74.00	-22.63	51.57	-0.20	Peak	118	30
5	8309.70	39.33	54.00	-14.67	33.95	5.38	Average	150	320
6	8309.70	50.46	74.00	-23.54	45.08	5.38	Peak	150	320

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

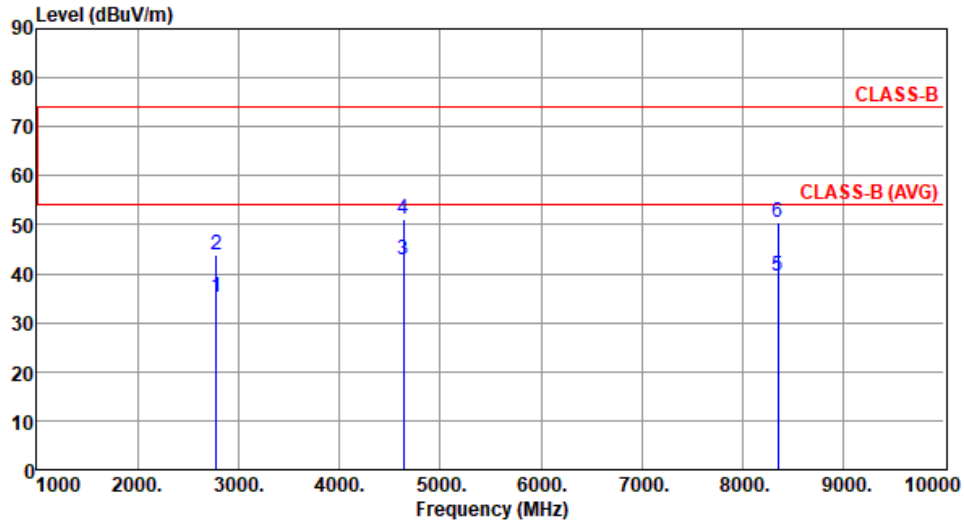


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2769.90	39.05	54.00	-14.95	42.28	-3.23	Average	258	3
2	2769.90	46.24	74.00	-27.76	49.47	-3.23	Peak	258	3
3	4616.50	37.59	54.00	-16.41	37.79	-0.20	Average	100	68
4	4616.50	47.35	74.00	-26.65	47.55	-0.20	Peak	100	68
5	8309.70	38.57	54.00	-15.43	33.19	5.38	Average	100	22
6	8309.70	50.19	74.00	-23.81	44.81	5.38	Peak	100	22

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

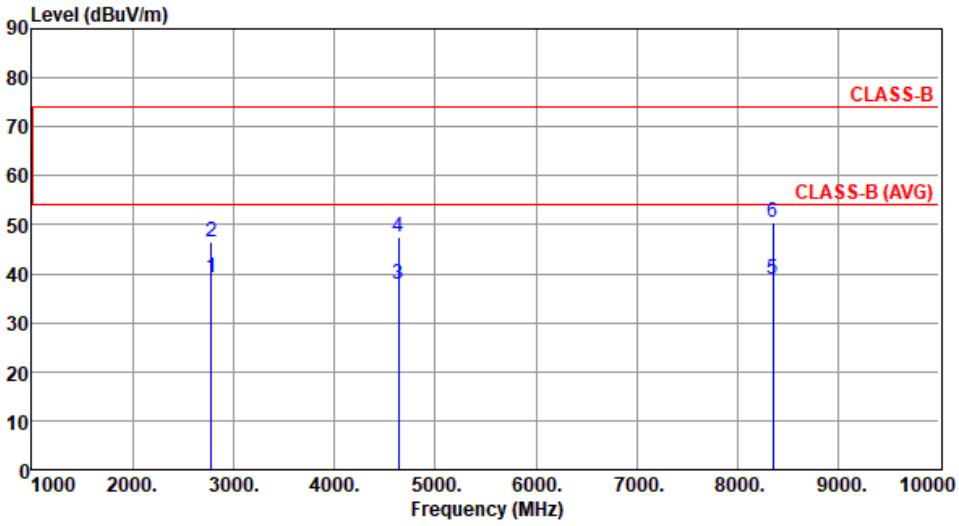


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.50	35.11	54.00	-18.89	38.33	-3.22	Average	198	279
2	2782.50	43.91	74.00	-30.09	47.13	-3.22	Peak	198	279
3	4637.50	42.79	54.00	-11.21	42.90	-0.11	Average	120	29
4	4637.50	51.04	74.00	-22.96	51.15	-0.11	Peak	120	29
5	8347.50	39.41	54.00	-14.59	34.11	5.30	Average	145	327
6	8347.50	50.53	74.00	-23.47	45.23	5.30	Peak	145	327

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66



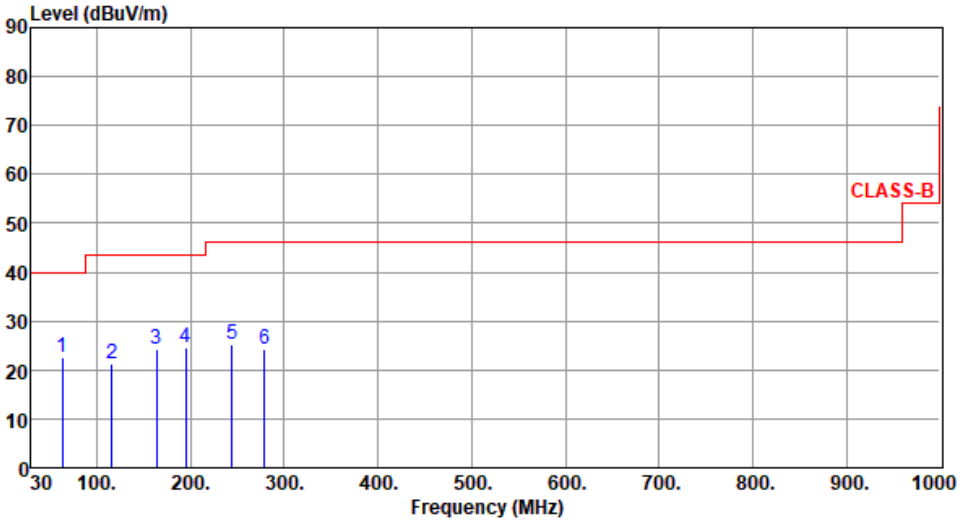
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.50	39.26	54.00	-14.74	42.48	-3.22	Average	271	2
2	2782.50	46.55	74.00	-27.45	49.77	-3.22	Peak	271	2
3	4637.50	37.83	54.00	-16.17	37.94	-0.11	Average	100	76
4	4637.50	47.48	74.00	-26.52	47.59	-0.11	Peak	100	76
5	8347.50	38.78	54.00	-15.22	33.48	5.30	Average	100	21
6	8347.50	50.43	74.00	-23.57	45.13	5.30	Peak	100	21

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test configuration 3: Internal antenna, adapter mode
Unwanted Emissions (Below 1GHz)

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

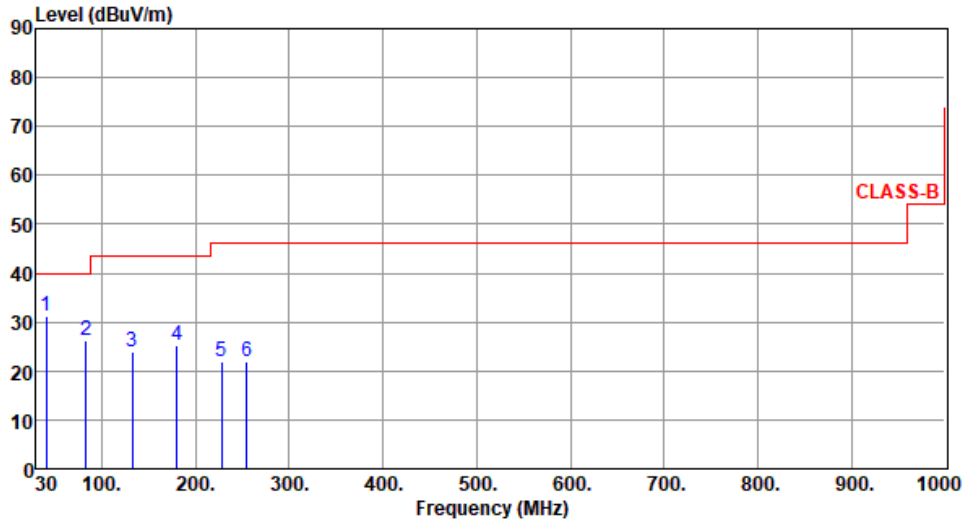


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	62.98	22.68	40.00	-17.32	32.11	-9.43	Peak	---	---
2	116.33	21.38	43.50	-22.12	32.70	-11.32	Peak	---	---
3	163.86	24.25	43.50	-19.25	32.91	-8.66	Peak	---	---
4	194.90	24.47	43.50	-19.03	36.13	-11.66	Peak	---	---
5	244.37	25.17	46.00	-20.83	35.04	-9.87	Peak	---	---
6	279.29	24.09	46.00	-21.91	32.60	-8.51	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

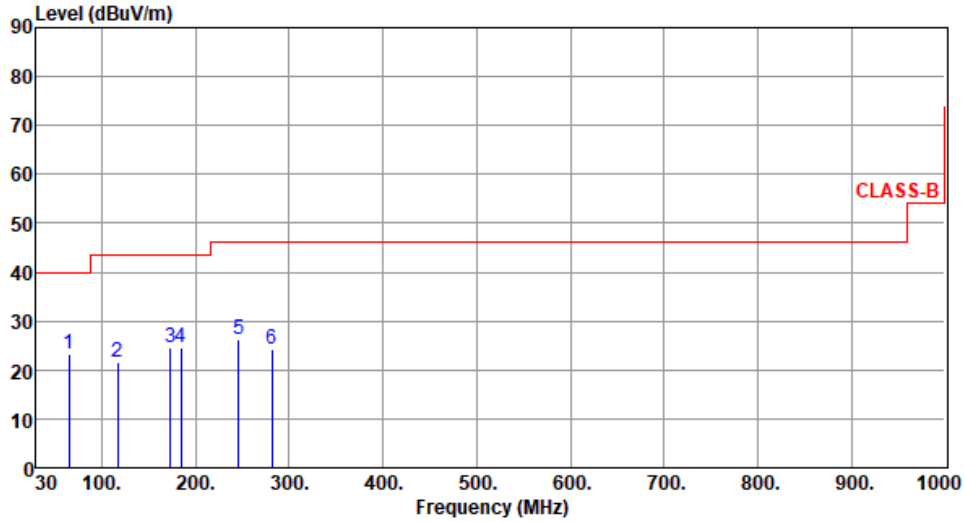


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.26	40.00	-8.74	39.96	-8.70	QP	100	320
2	83.35	26.17	40.00	-13.83	40.26	-14.09	Peak	---	---
3	132.82	24.03	43.50	-19.47	33.80	-9.77	Peak	---	---
4	180.35	25.33	43.50	-18.17	35.46	-10.13	Peak	---	---
5	227.88	21.91	46.00	-24.09	33.57	-11.66	Peak	---	---
6	255.04	21.98	46.00	-24.02	31.57	-9.59	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

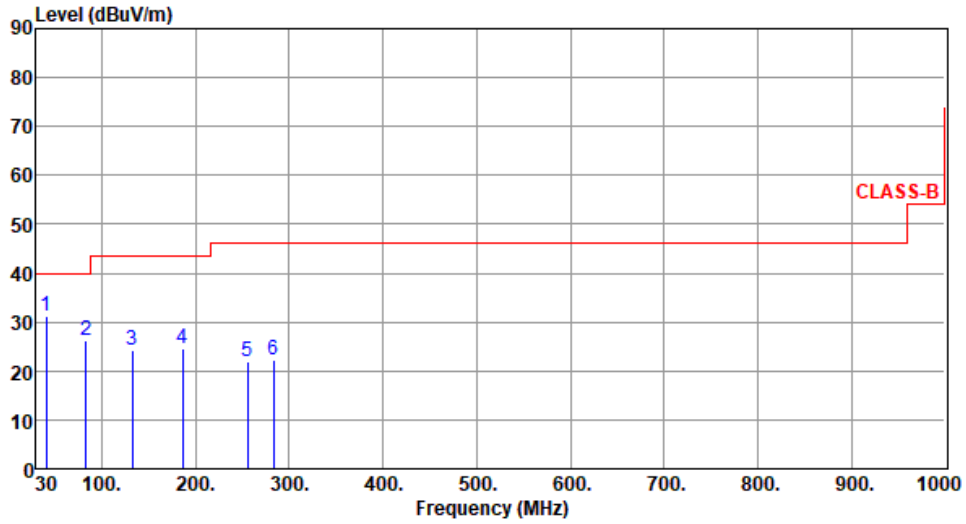


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	64.58	23.16	40.00	-16.84	32.82	-9.66	Peak	---	---
2	116.72	21.48	43.50	-22.02	32.63	-11.15	Peak	---	---
3	173.26	24.58	43.50	-18.92	33.86	-9.28	Peak	---	---
4	184.95	24.55	43.50	-18.95	35.25	-10.70	Peak	---	---
5	245.67	26.16	46.00	-19.84	35.98	-9.82	Peak	---	---
6	281.26	24.33	46.00	-21.67	32.76	-8.43	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

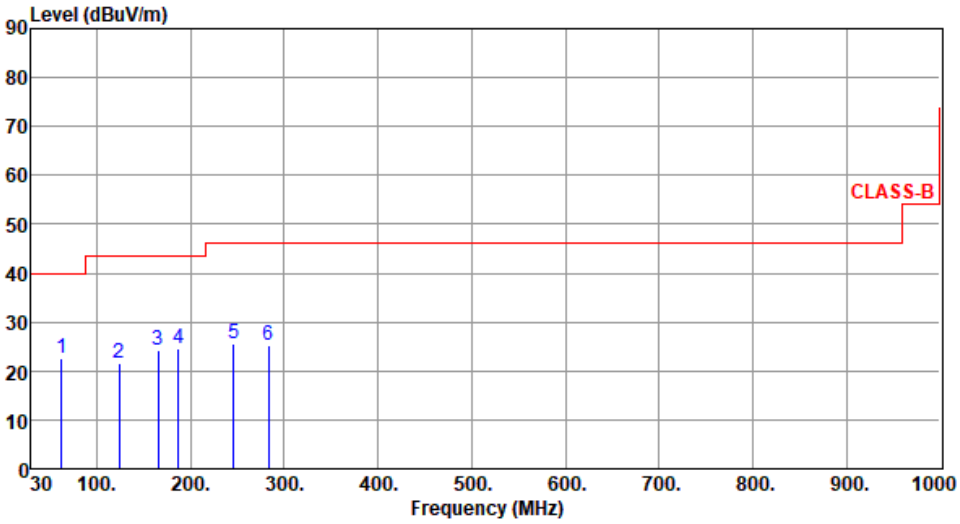


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.18	40.00	-8.82	39.88	-8.70	QP	100	325
2	83.46	26.38	40.00	-13.62	40.49	-14.11	Peak	---	---
3	132.57	24.11	43.50	-19.39	33.98	-9.87	Peak	---	---
4	186.54	24.66	43.50	-18.84	35.70	-11.04	Peak	---	---
5	255.48	21.86	46.00	-24.14	31.43	-9.57	Peak	---	---
6	283.64	22.33	46.00	-23.67	30.71	-8.38	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

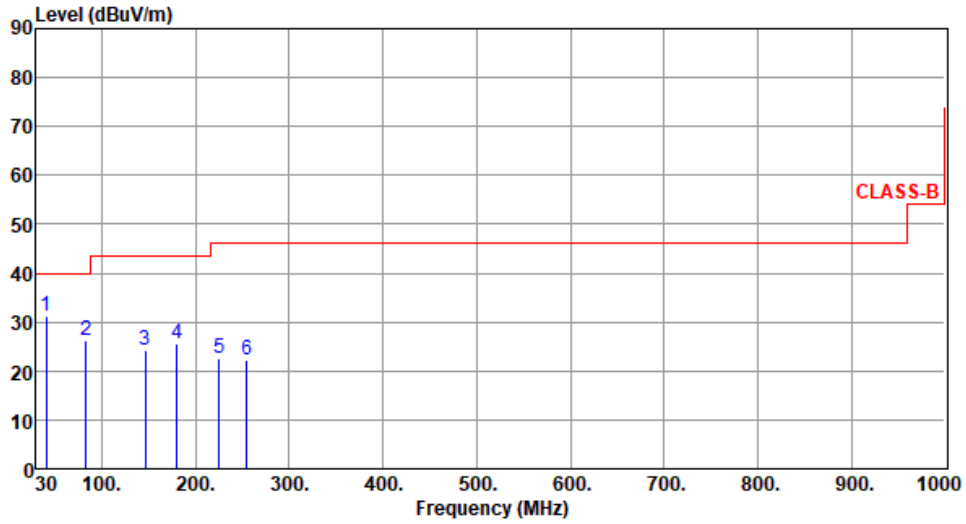


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	62.75	22.48	40.00	-17.52	31.84	-9.36	Peak	---	---
2	124.26	21.57	43.50	-21.93	32.39	-10.82	Peak	---	---
3	165.86	24.38	43.50	-19.12	33.15	-8.77	Peak	---	---
4	186.94	24.56	43.50	-18.94	35.64	-11.08	Peak	---	---
5	245.67	25.41	46.00	-20.59	35.23	-9.82	Peak	---	---
6	283.56	25.16	46.00	-20.84	33.54	-8.38	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

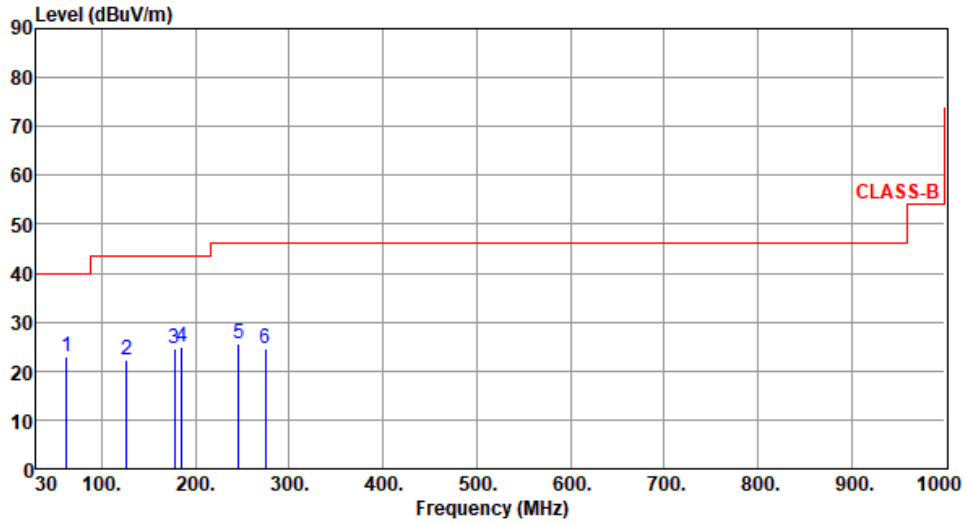


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.22	40.00	-8.78	39.92	-8.70	QP	100	320
2	83.57	26.22	40.00	-13.78	40.35	-14.13	Peak	---	---
3	146.28	24.35	43.50	-19.15	32.84	-8.49	Peak	---	---
4	180.34	25.66	43.50	-17.84	35.78	-10.12	Peak	---	---
5	225.64	22.43	46.00	-23.57	34.46	-12.03	Peak	---	---
6	254.26	22.11	46.00	-23.89	31.71	-9.60	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

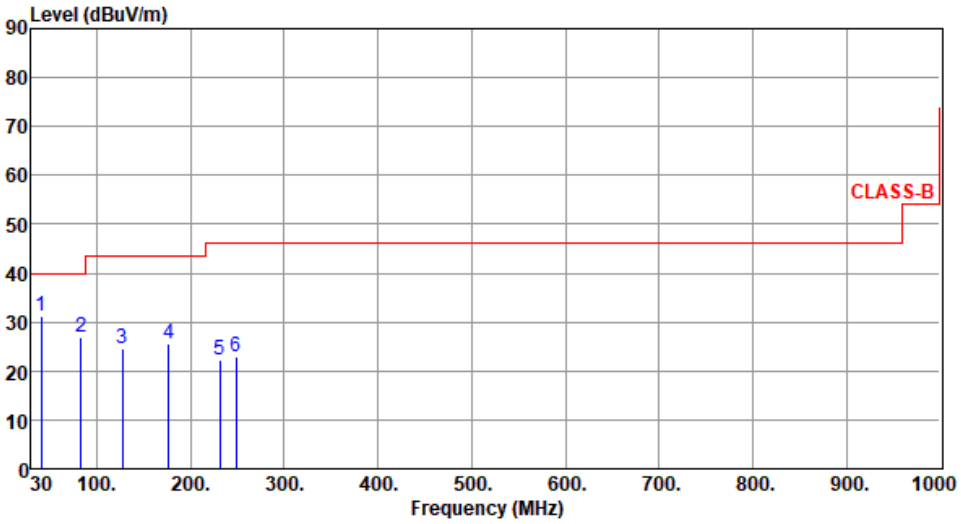


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	62.73	22.84	40.00	-17.16	32.20	-9.36	Peak	---	---
2	126.35	22.16	43.50	-21.34	32.77	-10.61	Peak	---	---
3	177.54	24.57	43.50	-18.93	34.36	-9.79	Peak	---	---
4	185.64	24.77	43.50	-18.73	35.66	-10.89	Peak	---	---
5	245.67	25.55	46.00	-20.45	35.37	-9.82	Peak	---	---
6	275.00	24.66	46.00	-21.34	33.36	-8.70	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

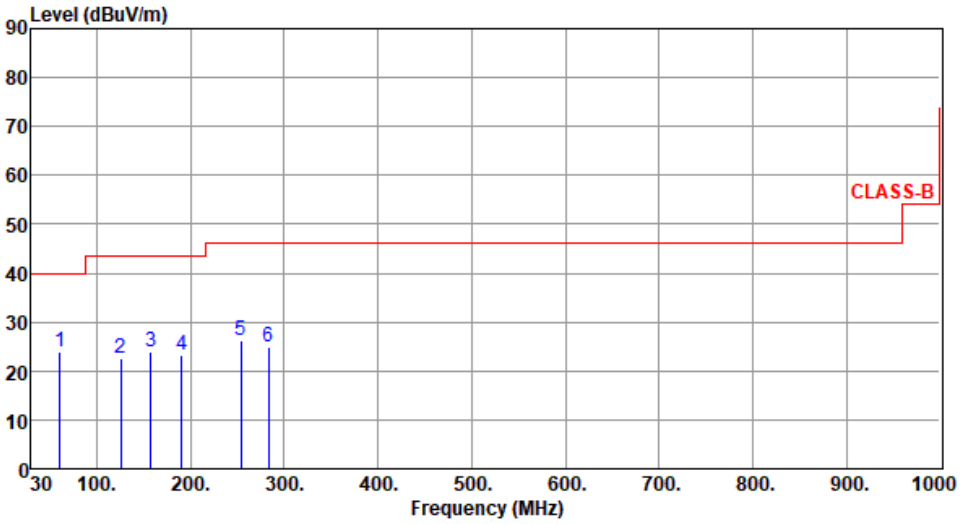


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.28	40.00	-8.72	39.98	-8.70	QP	100	317
2	83.59	26.77	40.00	-13.23	40.91	-14.14	Peak	---	---
3	127.46	24.56	43.50	-18.94	35.02	-10.46	Peak	---	---
4	176.58	25.47	43.50	-18.03	35.06	-9.59	Peak	---	---
5	231.58	22.16	46.00	-23.84	33.21	-11.05	Peak	---	---
6	248.67	22.77	46.00	-23.23	32.52	-9.75	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

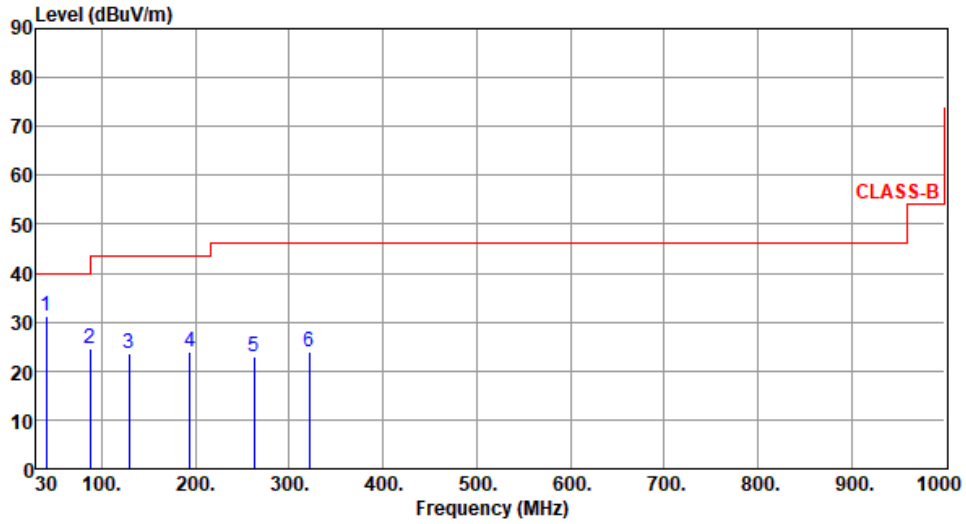


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	61.04	24.00	40.00	-16.00	33.04	-9.04	Peak	---	---
2	126.03	22.43	43.50	-21.07	33.04	-10.61	Peak	---	---
3	158.04	23.99	43.50	-19.51	32.49	-8.50	Peak	---	---
4	191.02	23.09	43.50	-20.41	34.58	-11.49	Peak	---	---
5	254.07	26.30	46.00	-19.70	35.91	-9.61	Peak	---	---
6	283.17	24.86	46.00	-21.14	33.25	-8.39	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66



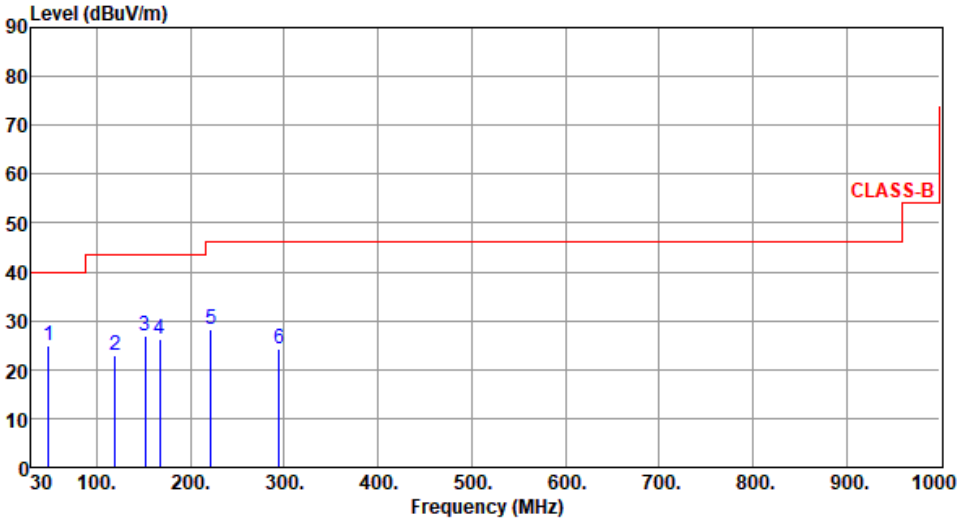
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	40.67	31.27	40.00	-8.73	39.97	-8.70	QP	100	318
2	87.23	24.51	40.00	-15.49	38.82	-14.31	Peak	---	---
3	128.94	23.62	43.50	-19.88	33.93	-10.31	Peak	---	---
4	193.93	24.00	43.50	-19.50	35.56	-11.56	Peak	---	---
5	262.80	23.04	46.00	-22.96	32.28	-9.24	Peak	---	---
6	321.00	23.87	46.00	-22.13	30.99	-7.12	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test configuration 4: Internal antenna, POE mode
Unwanted Emissions (Below 1GHz)

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

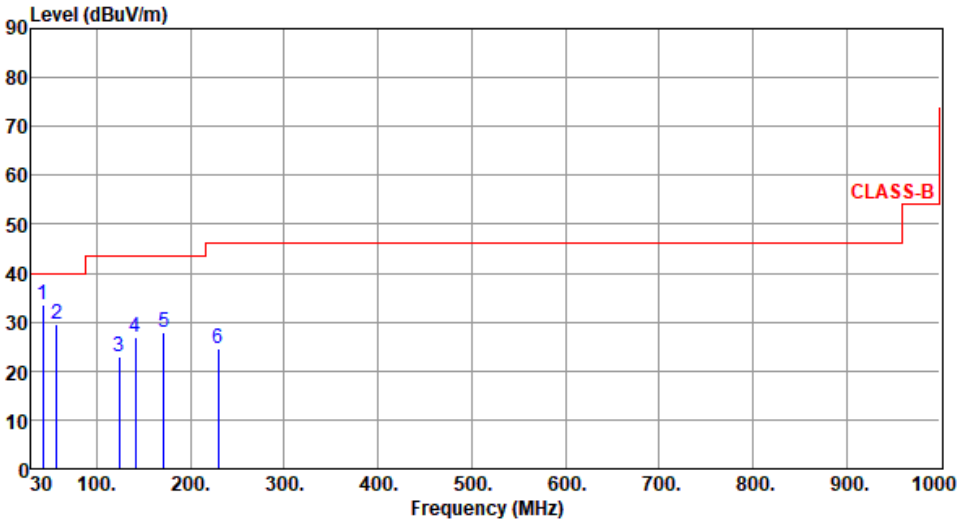


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	48.43	24.99	40.00	-15.01	32.91	-7.92	Peak	---	---
2	119.24	22.87	43.50	-20.63	33.93	-11.06	Peak	---	---
3	151.25	26.77	43.50	-16.73	35.19	-8.42	Peak	---	---
4	166.77	26.14	43.50	-17.36	34.98	-8.84	Peak	---	---
5	222.06	28.16	46.00	-17.84	40.30	-12.14	Peak	---	---
6	294.81	24.19	46.00	-21.81	32.19	-8.00	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

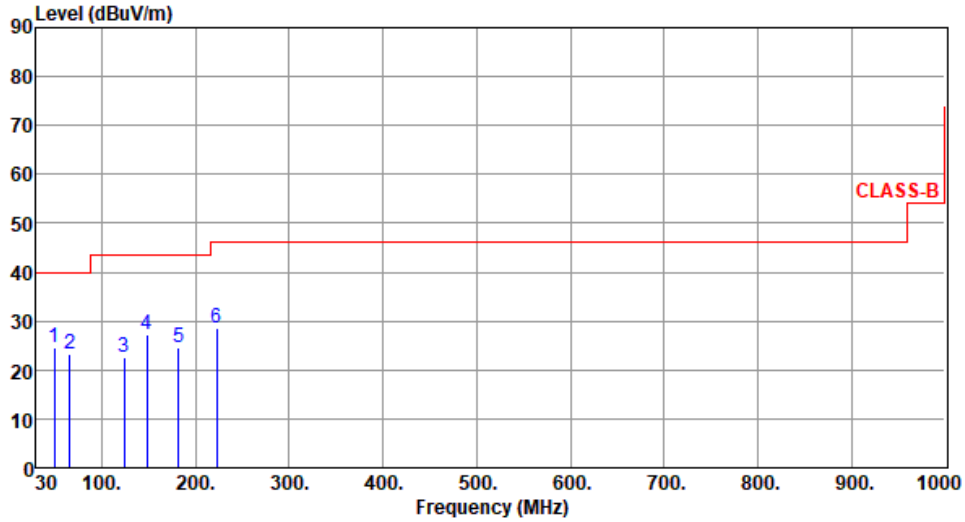


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	42.61	33.61	40.00	-6.39	41.90	-8.29	Peak	---	---
2	57.16	29.56	40.00	-10.44	37.84	-8.28	Peak	---	---
3	124.09	22.81	43.50	-20.69	33.69	-10.88	Peak	---	---
4	141.55	26.86	43.50	-16.64	35.67	-8.81	Peak	---	---
5	171.62	27.81	43.50	-15.69	36.91	-9.10	Peak	---	---
6	229.82	24.44	46.00	-21.56	35.78	-11.34	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

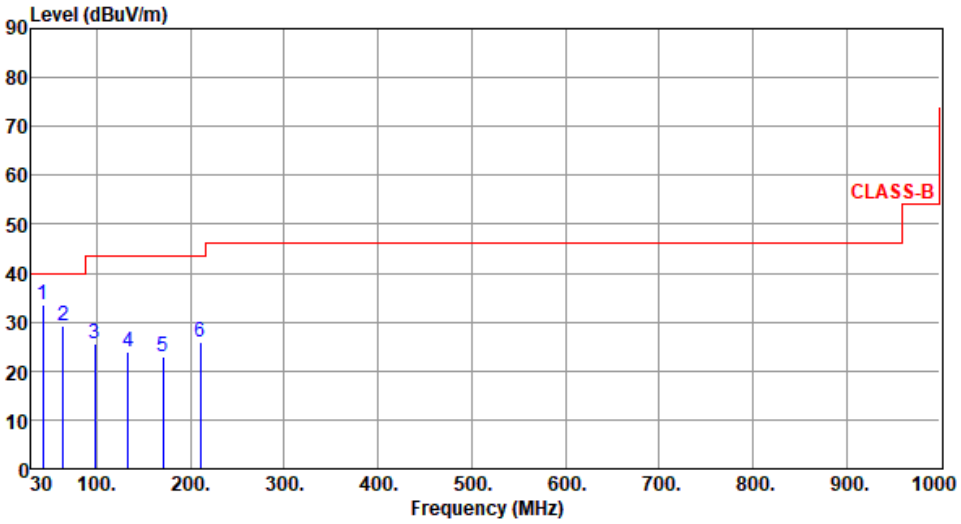


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	49.40	24.57	40.00	-15.43	32.68	-8.11	Peak	---	---
2	65.89	23.32	40.00	-16.68	33.21	-9.89	Peak	---	---
3	124.09	22.49	43.50	-21.01	33.37	-10.88	Peak	---	---
4	148.34	27.21	43.50	-16.29	35.82	-8.61	Peak	---	---
5	182.29	24.69	43.50	-18.81	35.16	-10.47	Peak	---	---
6	223.03	28.49	46.00	-17.51	40.63	-12.14	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

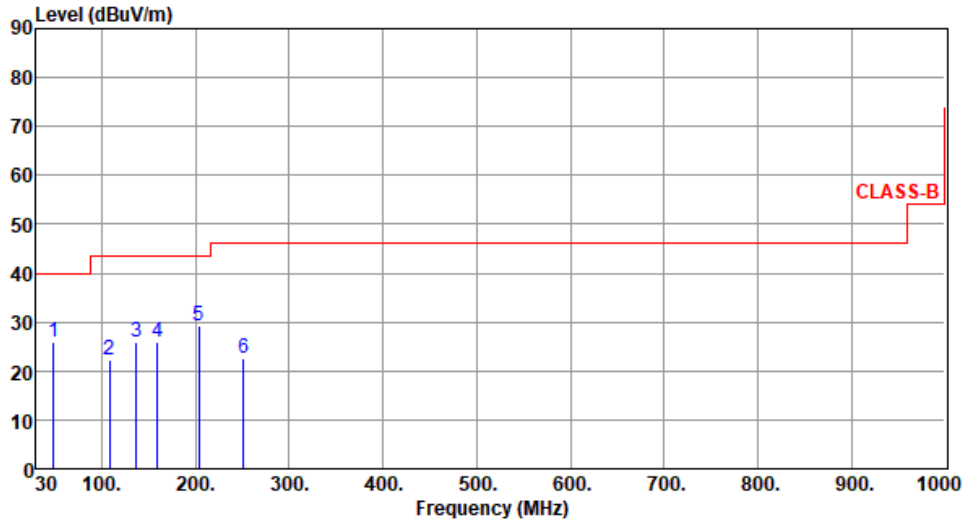


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	42.61	33.46	40.00	-6.54	41.75	-8.29	Peak	---	---
2	63.95	29.37	40.00	-10.63	39.18	-9.81	Peak	---	---
3	97.90	25.41	43.50	-18.09	38.85	-13.44	Peak	---	---
4	133.79	23.76	43.50	-19.74	33.37	-9.61	Peak	---	---
5	170.65	22.98	43.50	-20.52	32.07	-9.09	Peak	---	---
6	210.42	25.74	43.50	-17.76	37.55	-11.81	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

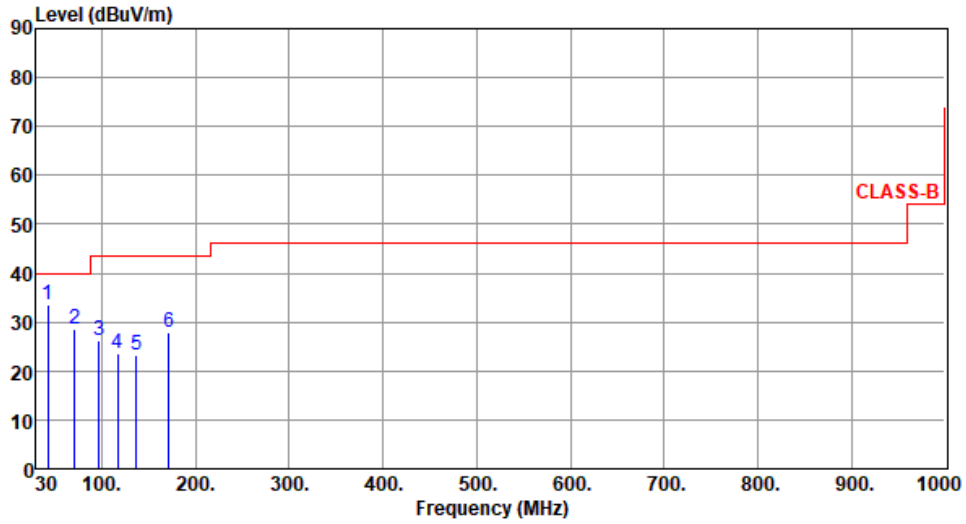


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	48.43	25.99	40.00	-14.01	33.91	-7.92	Peak	---	---
2	108.57	22.37	43.50	-21.13	33.97	-11.60	Peak	---	---
3	136.70	25.81	43.50	-17.69	35.19	-9.38	Peak	---	---
4	159.01	26.01	43.50	-17.49	34.50	-8.49	Peak	---	---
5	203.63	29.28	43.50	-14.22	41.08	-11.80	Peak	---	---
6	251.16	22.43	46.00	-23.57	32.11	-9.68	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

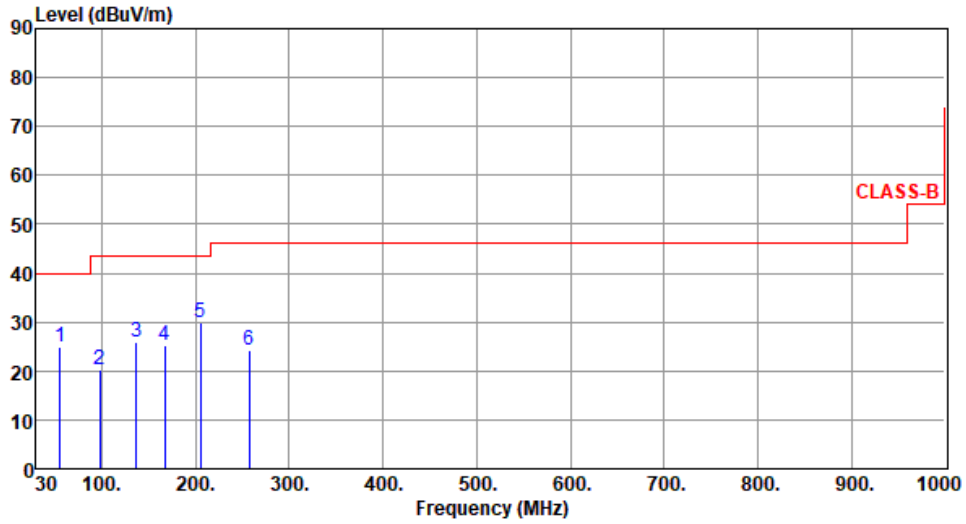


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	42.61	33.62	40.00	-6.38	41.91	-8.29	Peak	---	---
2	70.74	28.68	40.00	-11.32	39.53	-10.85	Peak	---	---
3	96.93	26.19	43.50	-17.31	39.88	-13.69	Peak	---	---
4	117.30	23.56	43.50	-19.94	34.66	-11.10	Peak	---	---
5	136.70	23.33	43.50	-20.17	32.71	-9.38	Peak	---	---
6	171.62	27.81	43.50	-15.69	36.91	-9.10	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

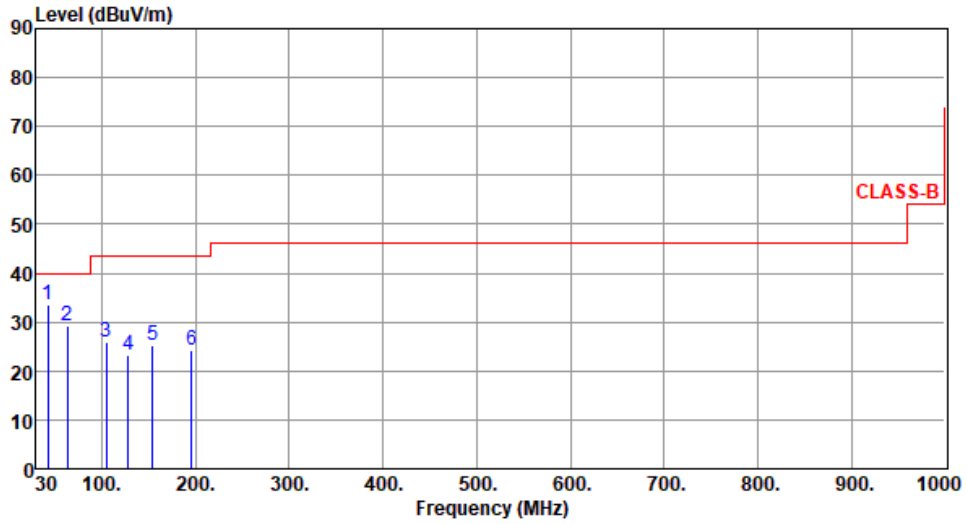


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	55.22	25.01	40.00	-14.99	33.36	-8.35	Peak	---	---
2	97.90	20.27	43.50	-23.23	33.71	-13.44	Peak	---	---
3	136.70	25.81	43.50	-17.69	35.19	-9.38	Peak	---	---
4	166.77	25.14	43.50	-18.36	33.98	-8.84	Peak	---	---
5	205.57	29.77	43.50	-13.73	41.60	-11.83	Peak	---	---
6	256.98	24.17	46.00	-21.83	33.67	-9.50	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

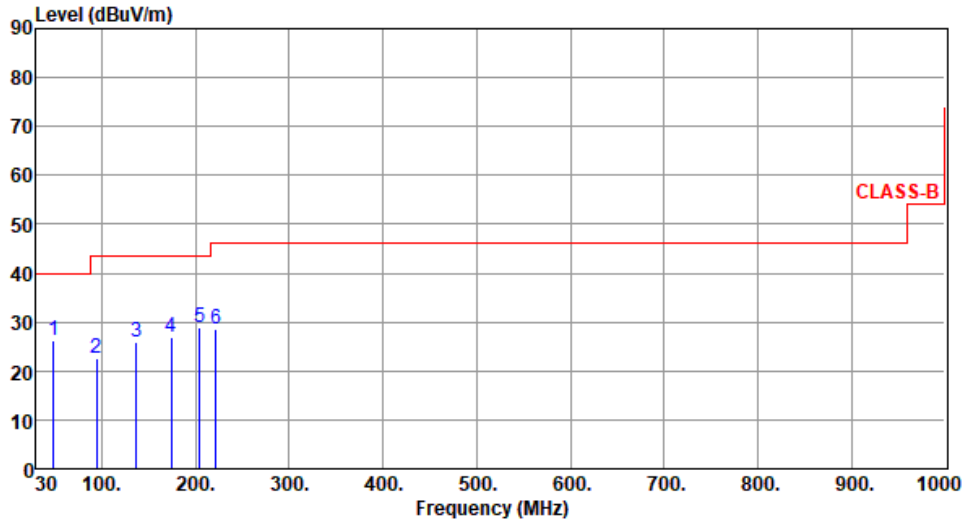


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	42.61	33.66	40.00	-6.34	41.95	-8.29	Peak	---	---
2	62.98	29.21	40.00	-10.79	38.64	-9.43	Peak	---	---
3	104.69	26.04	43.50	-17.46	38.26	-12.22	Peak	---	---
4	127.97	23.22	43.50	-20.28	33.53	-10.31	Peak	---	---
5	154.16	25.30	43.50	-18.20	33.68	-8.38	Peak	---	---
6	195.87	24.26	43.50	-19.24	35.93	-11.67	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Horizontal		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66

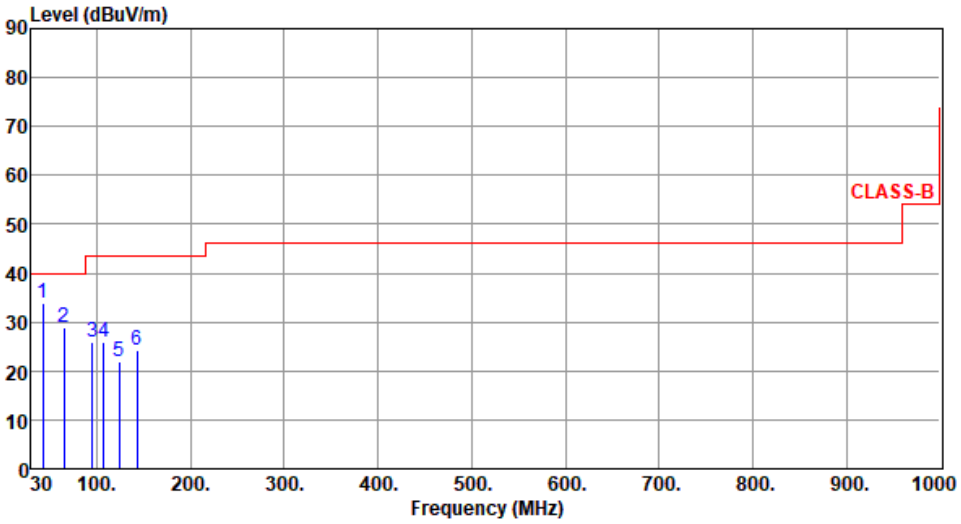


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	48.43	26.16	40.00	-13.84	34.08	-7.92	Peak	---	---
2	94.02	22.54	43.50	-20.96	36.64	-14.10	Peak	---	---
3	136.70	25.81	43.50	-17.69	35.19	-9.38	Peak	---	---
4	174.53	26.98	43.50	-16.52	36.43	-9.45	Peak	---	---
5	204.60	28.93	43.50	-14.57	40.75	-11.82	Peak	---	---
6	222.06	28.51	46.00	-17.49	40.65	-12.14	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Vertical		

Test By :Sean Yu Temperature(℃):22 Humidity(%):66



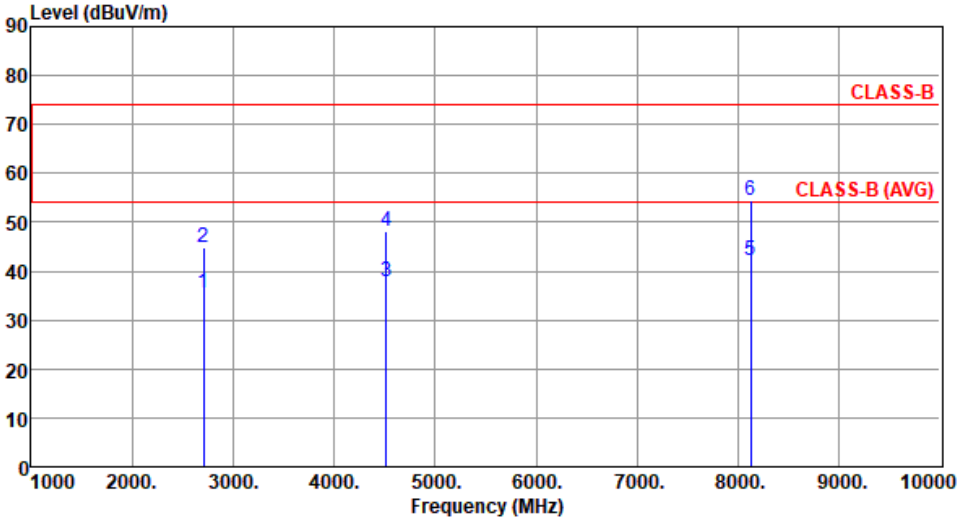
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	42.61	33.72	40.00	-6.28	42.01	-8.29	Peak	---	---
2	64.92	28.95	40.00	-11.05	38.50	-9.55	Peak	---	---
3	94.99	25.89	43.50	-17.61	39.70	-13.81	Peak	---	---
4	107.60	25.74	43.50	-17.76	37.48	-11.74	Peak	---	---
5	124.09	21.81	43.50	-21.69	32.69	-10.88	Peak	---	---
6	142.52	24.08	43.50	-19.42	32.85	-8.77	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Unwanted Emissions (Above 1GHz)

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

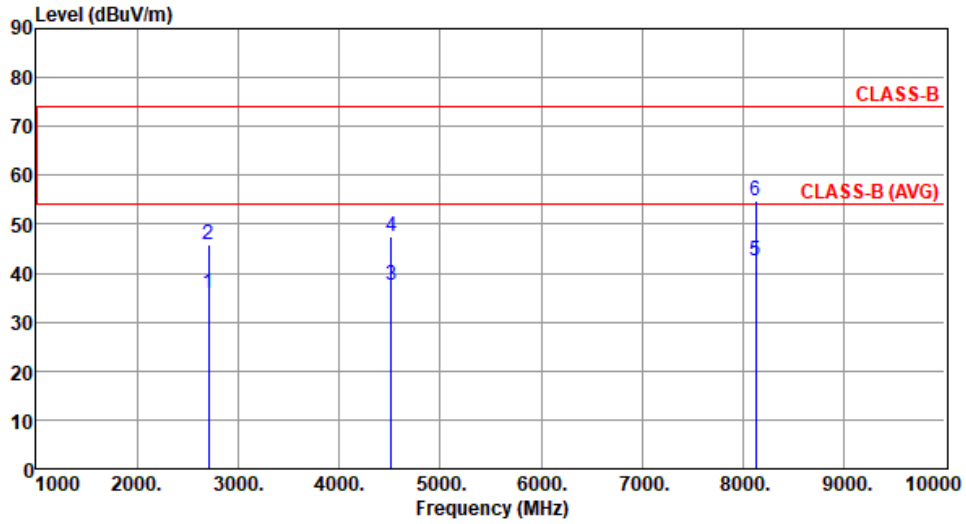


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2709.00	35.41	54.00	-18.59	38.87	-3.46	Average	116	238
2	2709.00	44.68	74.00	-29.32	48.14	-3.46	Peak	116	238
3	4515.00	37.78	54.00	-16.22	38.21	-0.43	Average	111	224
4	4515.00	48.15	74.00	-25.85	48.58	-0.43	Peak	111	224
5	8127.00	42.28	54.00	-11.72	36.29	5.99	Average	105	231
6	8127.00	54.53	74.00	-19.47	48.54	5.99	Peak	105	231

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	903.0
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

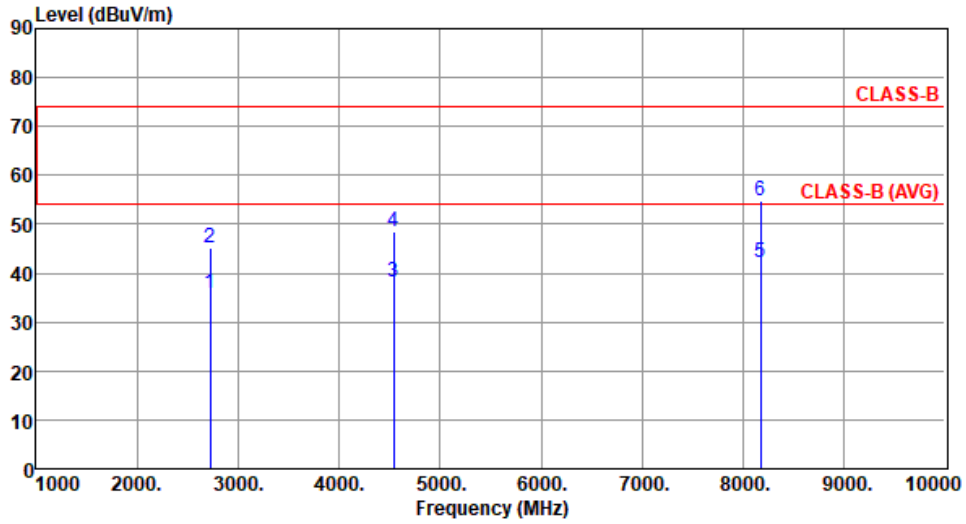


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2709.00	35.84	54.00	-18.16	39.30	-3.46	Average	258	294
2	2709.00	45.68	74.00	-28.32	49.14	-3.46	Peak	258	294
3	4515.00	37.40	54.00	-16.60	37.83	-0.43	Average	100	233
4	4515.00	47.58	74.00	-26.42	48.01	-0.43	Peak	100	233
5	8127.00	42.41	54.00	-11.59	36.42	5.99	Average	215	229
6	8127.00	54.76	74.00	-19.24	48.77	5.99	Peak	215	229

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

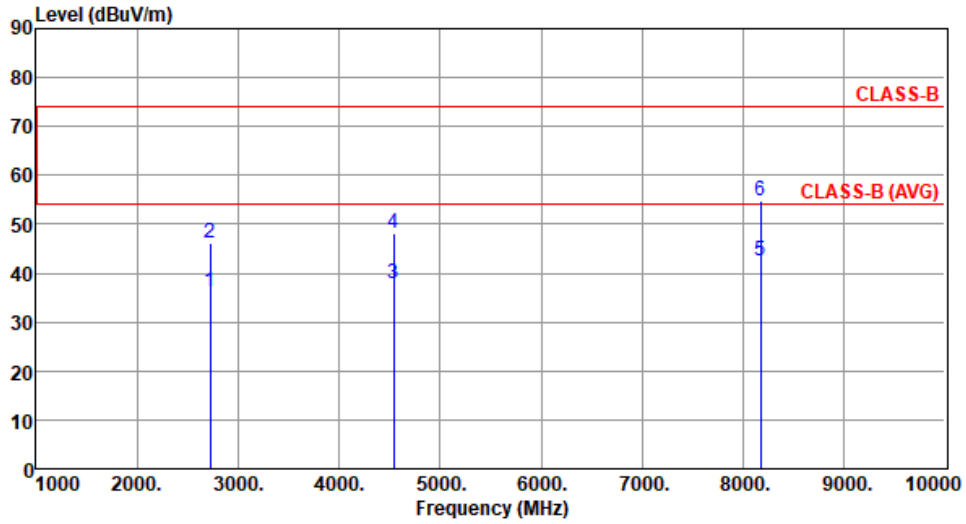


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2723.40	35.75	54.00	-18.25	39.10	-3.35	Average	114	234
2	2723.40	45.05	74.00	-28.95	48.40	-3.35	Peak	114	234
3	4539.00	38.18	54.00	-15.82	38.50	-0.32	Average	112	222
4	4539.00	48.56	74.00	-25.44	48.88	-0.32	Peak	112	222
5	8170.20	42.32	54.00	-11.68	36.51	5.81	Average	102	229
6	8170.20	54.69	74.00	-19.31	48.88	5.81	Peak	102	229

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	907.8
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

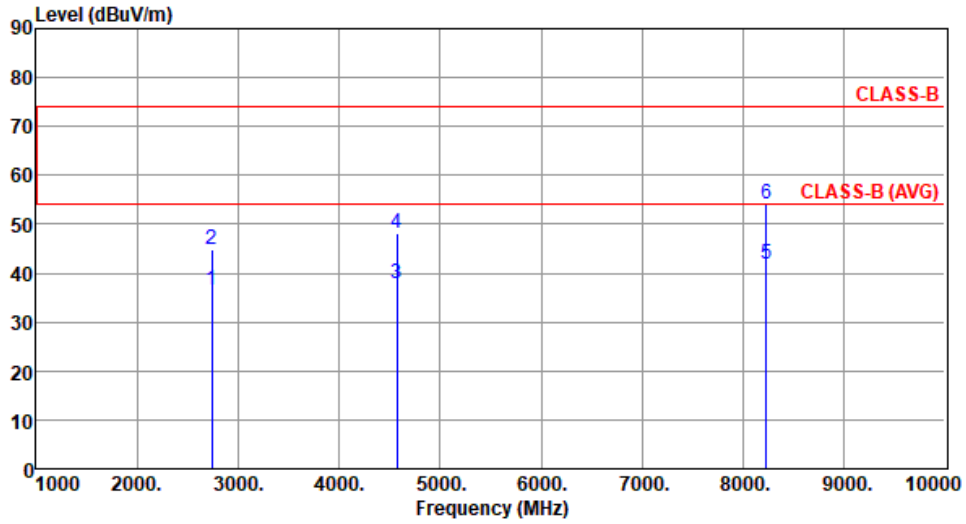


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2723.40	36.33	54.00	-17.67	39.68	-3.35	Average	260	295
2	2723.40	46.10	74.00	-27.90	49.45	-3.35	Peak	260	295
3	4539.00	37.83	54.00	-16.17	38.15	-0.32	Average	100	231
4	4539.00	48.02	74.00	-25.98	48.34	-0.32	Peak	100	231
5	8170.20	42.60	54.00	-11.40	36.79	5.81	Average	220	226
6	8170.20	54.90	74.00	-19.10	49.09	5.81	Peak	220	226

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

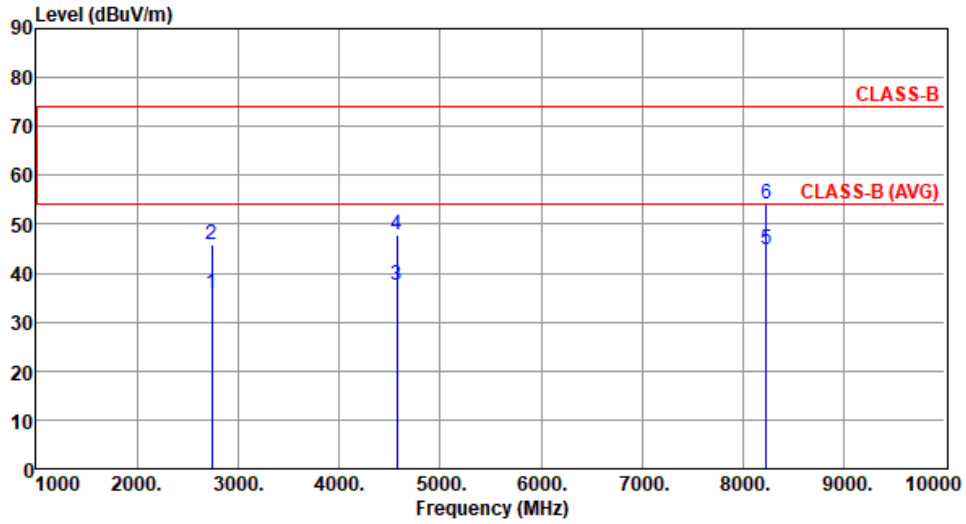


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2742.60	36.54	54.00	-17.46	39.87	-3.33	Average	117	227
2	2742.60	44.81	74.00	-29.19	48.14	-3.33	Peak	117	227
3	4571.00	37.97	54.00	-16.03	38.25	-0.28	Average	116	228
4	4571.00	48.32	74.00	-25.68	48.60	-0.28	Peak	116	228
5	8227.80	41.87	54.00	-12.13	36.36	5.51	Average	107	231
6	8227.80	54.13	74.00	-19.87	48.62	5.51	Peak	107	231

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	914.2
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

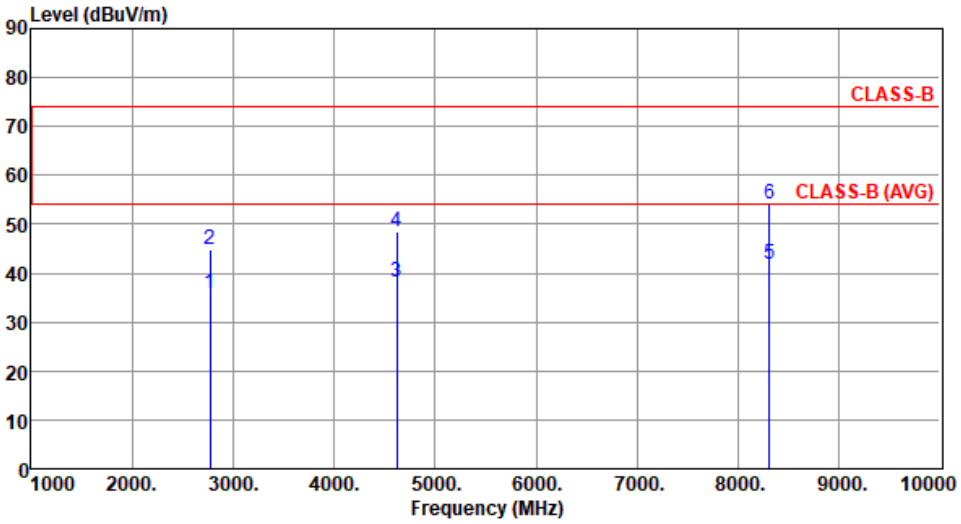


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2742.60	35.87	54.00	-18.13	39.20	-3.33	Average	266	299
2	2742.60	45.68	74.00	-28.32	49.01	-3.33	Peak	266	299
3	4571.00	37.52	54.00	-16.48	37.80	-0.28	Average	100	239
4	4571.00	47.69	74.00	-26.31	47.97	-0.28	Peak	100	239
5	8227.80	44.87	54.00	-9.13	39.36	5.51	Average	217	224
6	8227.80	54.28	74.00	-19.72	48.77	5.51	Peak	217	224

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

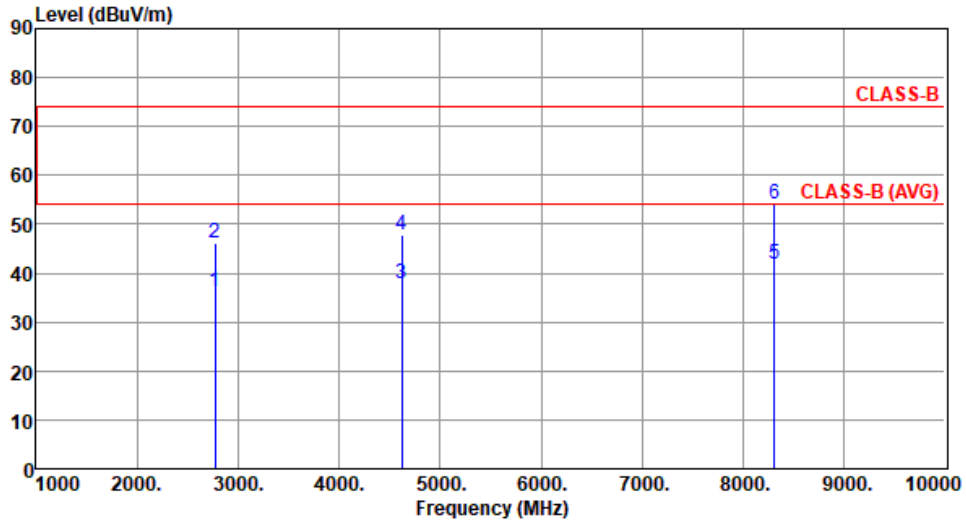


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2769.90	35.71	54.00	-18.29	38.94	-3.23	Average	115	235
2	2769.90	44.98	74.00	-29.02	48.21	-3.23	Peak	115	235
3	4616.50	38.14	54.00	-15.86	38.34	-0.20	Average	111	221
4	4616.50	48.42	74.00	-25.58	48.62	-0.20	Peak	111	221
5	8309.70	41.70	54.00	-12.30	36.32	5.38	Average	102	232
6	8309.70	53.99	74.00	-20.01	48.61	5.38	Peak	102	232

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	923.3
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

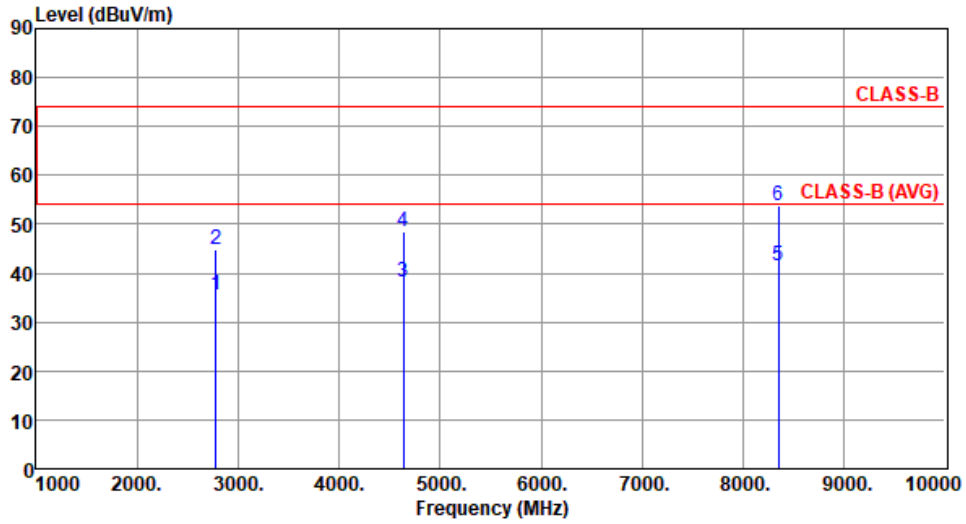


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2769.90	36.22	54.00	-17.78	39.45	-3.23	Average	262	291
2	2769.90	46.00	74.00	-28.00	49.23	-3.23	Peak	262	291
3	4616.50	37.78	54.00	-16.22	37.98	-0.20	Average	100	236
4	4616.50	47.97	74.00	-26.03	48.17	-0.20	Peak	100	236
5	8309.70	41.96	54.00	-12.04	36.58	5.38	Average	214	225
6	8309.70	54.19	74.00	-19.81	48.81	5.38	Peak	214	215

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

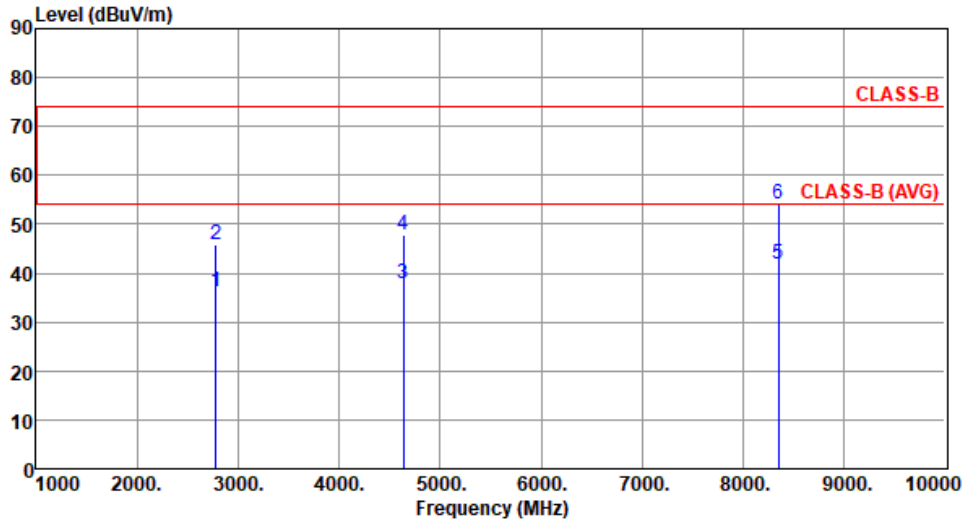


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.50	35.53	54.00	-18.47	38.75	-3.22	Average	111	238
2	2782.50	44.90	74.00	-29.10	48.12	-3.22	Peak	111	238
3	4637.50	38.10	54.00	-15.90	38.21	-0.11	Average	113	226
4	4637.50	48.44	74.00	-25.56	48.55	-0.11	Peak	113	226
5	8347.50	41.55	54.00	-12.45	36.25	5.30	Average	100	231
6	8347.50	53.84	74.00	-20.16	48.54	5.30	Peak	100	231

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Mode	LoRa (500kHz)	**Test Freq. (MHz)**	927.5
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

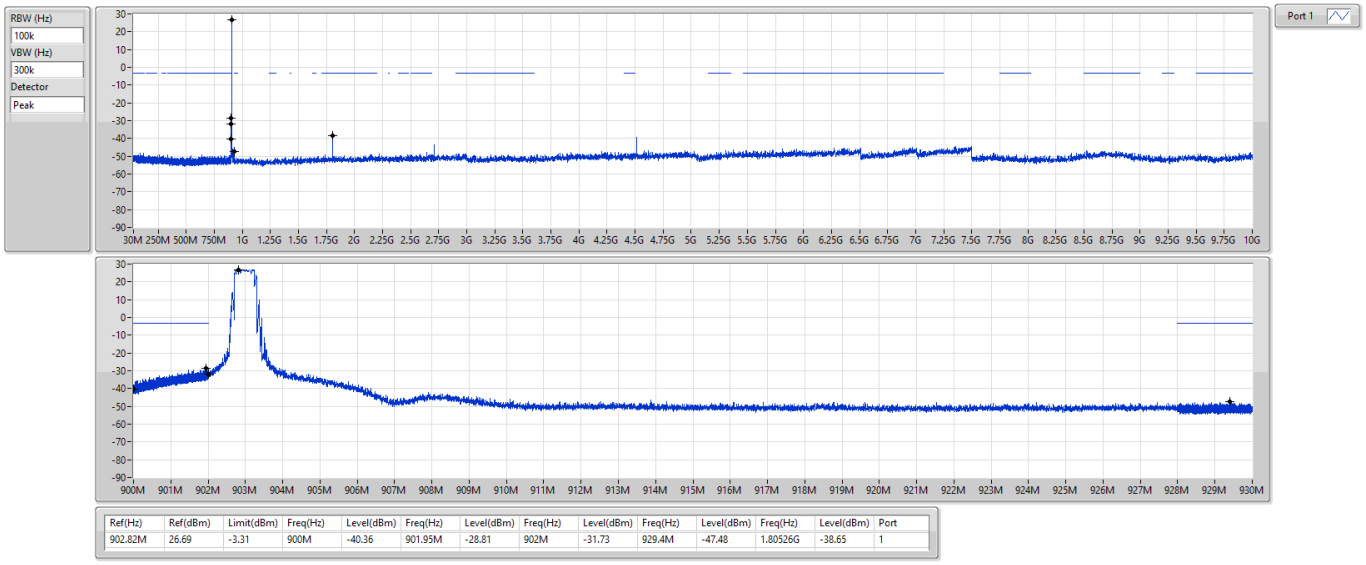


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.50	36.04	54.00	-17.96	39.26	-3.22	Average	257	297
2	2782.50	45.92	74.00	-28.08	49.14	-3.22	Peak	257	297
3	4637.50	37.70	54.00	-16.30	37.81	-0.11	Average	100	236
4	4637.50	47.91	74.00	-26.09	48.02	-0.11	Peak	100	236
5	8347.50	41.68	54.00	-12.32	36.38	5.30	Average	214	224
6	8347.50	53.99	74.00	-20.01	48.69	5.30	Peak	214	224

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

902-928MHz_LoRa (500kHz) **CSENdB-DTS**

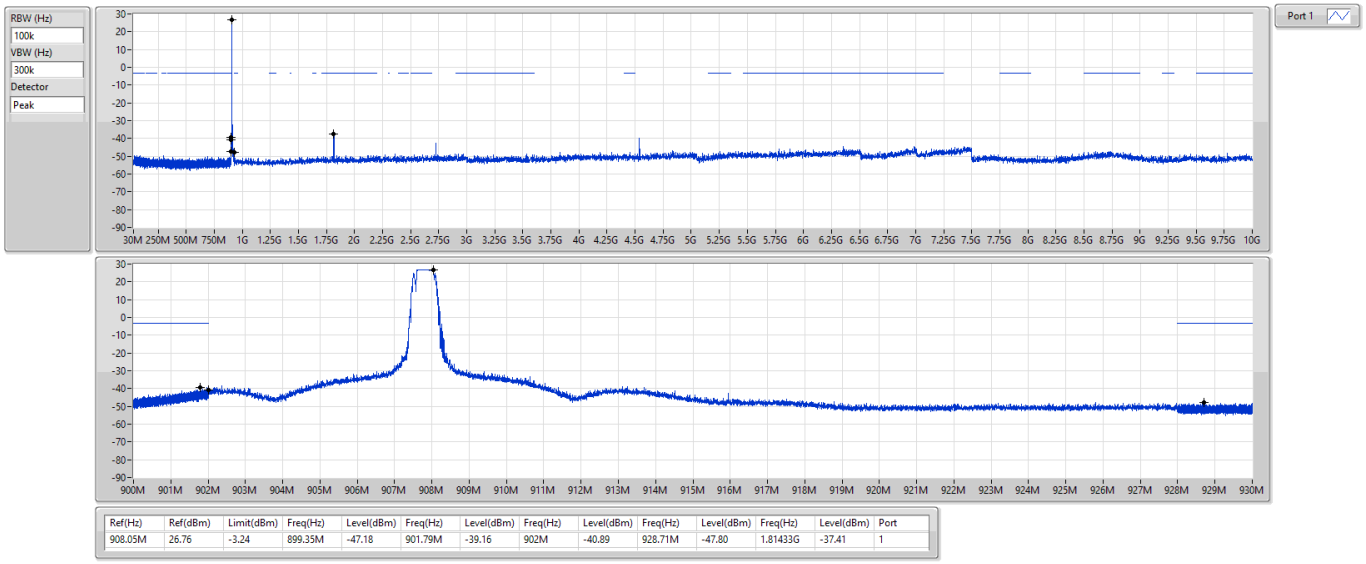
903MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
902.82M	26.69	-3.31	900M	-40.36	901.95M	-28.81	902M	-31.73	929.4M	-47.48	1.80526G	-38.65	1

902-928MHz_LoRa (500kHz) **CSENdB-DTS**

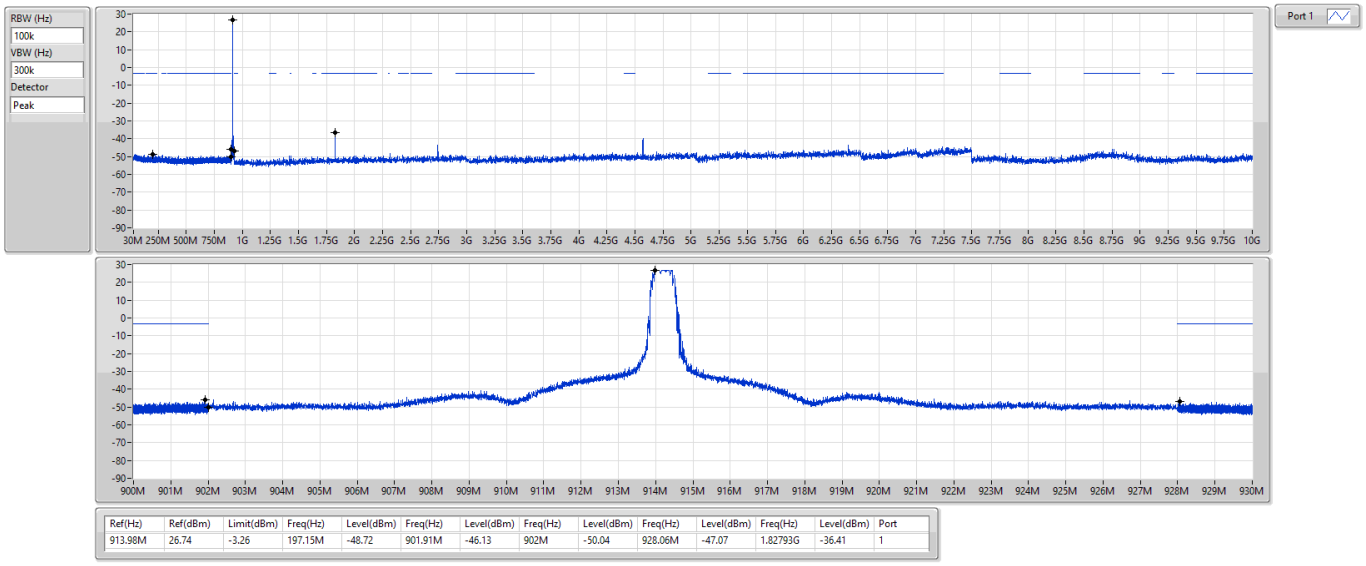
907.8MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
908.05M	26.76	-3.24	899.35M	-47.18	901.79M	-39.16	902M	-40.89	928.71M	-47.80	1.81433G	-37.41	1

902-928MHz_LoRa (500kHz) **CSENdB-DTS**

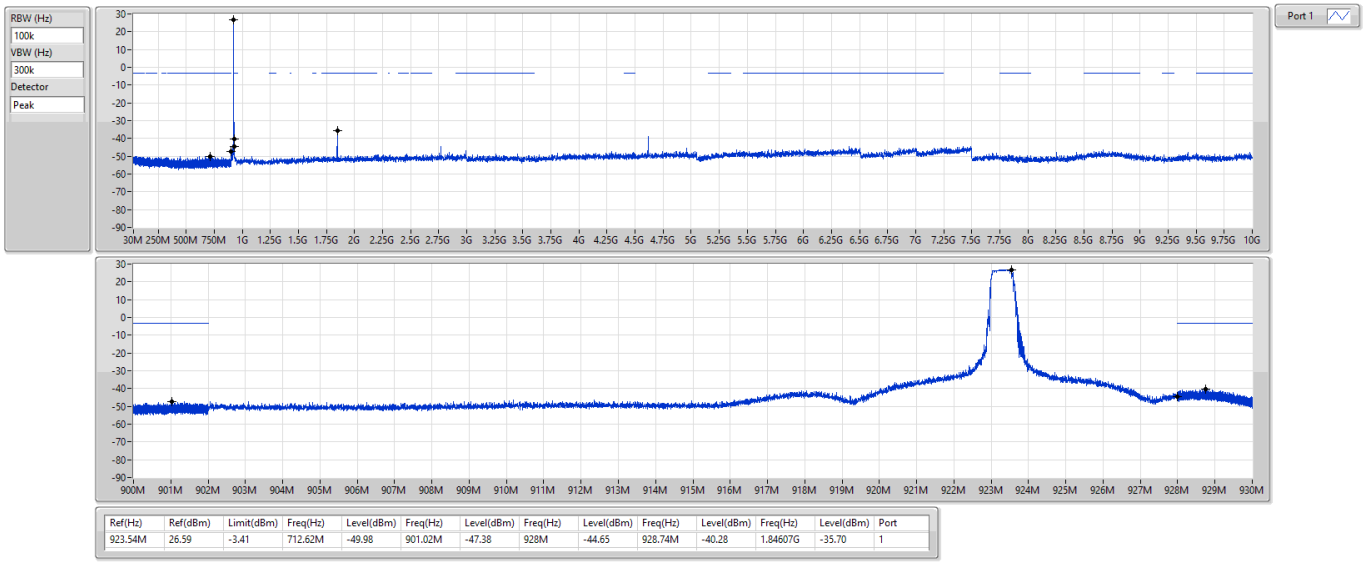
914.2MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
913.98M	26.74	-3.26	197.15M	-48.72	901.91M	-46.13	902M	-50.04	928.06M	-47.07	1.82793G	-36.41	1

902-928MHz_LoRa (500kHz) **CSENdB-DTS**

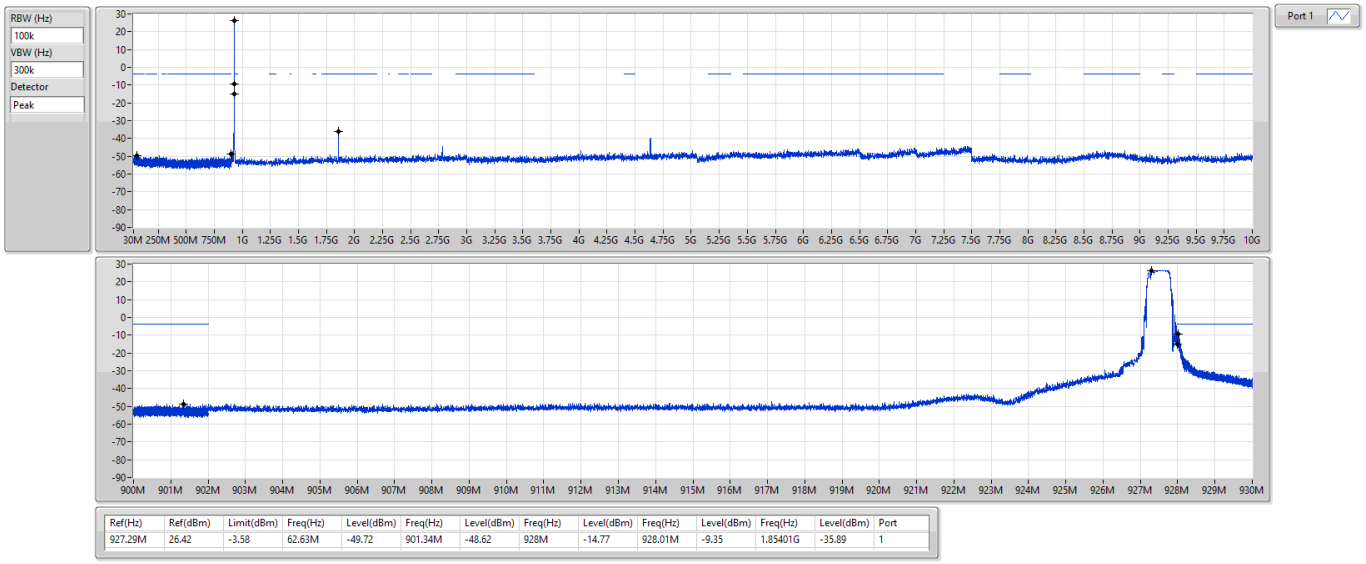
923.3MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
923.54M	26.59	-3.41	712.62M	-49.98	901.02M	-47.38	928M	-44.65	928.74M	-40.28	1.84607G	-35.70	1

902-928MHz_LoRa (500kHz) **CSENdB-DTS**

927.5MHz

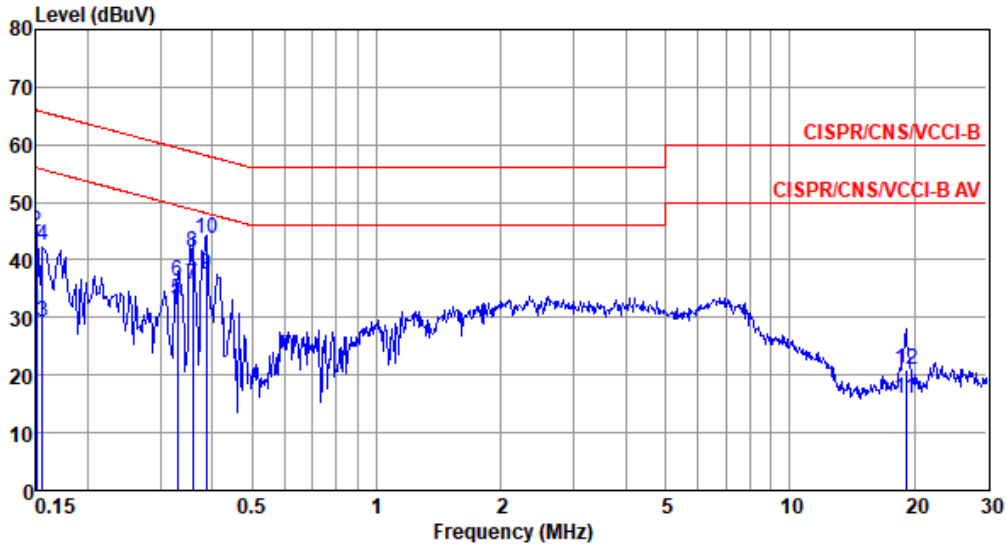


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.29M	26.42	-3.58	62.63M	-49.72	901.34M	-48.62	928M	-14.77	928.01M	-9.35	1.85401G	-35.89	1

Test configuration 1: External antenna, adapter mode

Power Phase	Line	Test Freq. (MHz)	903

Test by : Joe Liao Temperature: 23°C Humidity: 63%

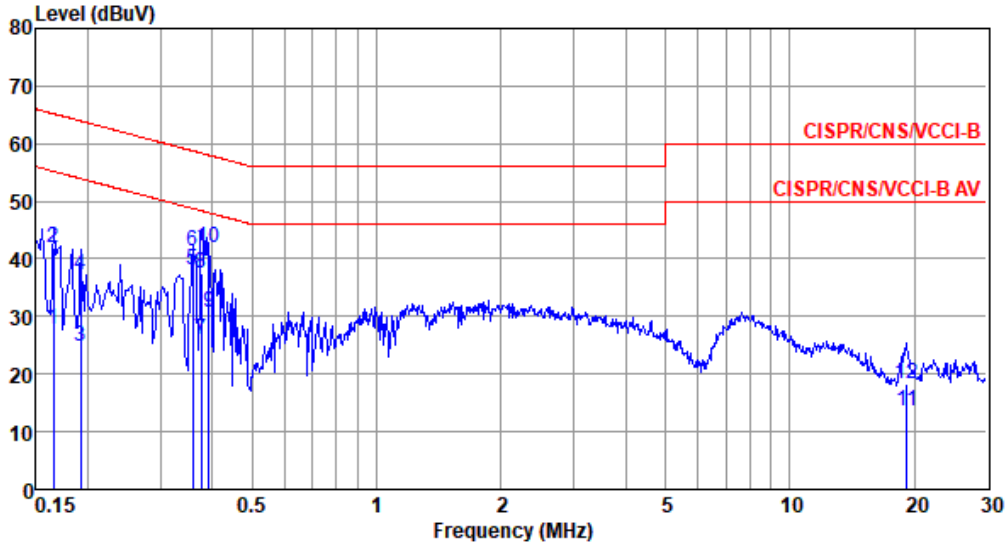


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	31.35	56.00	-24.65	21.42	9.65	0.08	0.20	Average
2	0.150	45.00	66.00	-21.00	35.07	9.65	0.08	0.20	QP
3	0.156	29.31	55.69	-26.38	19.37	9.65	0.08	0.21	Average
4	0.156	42.37	65.69	-23.32	32.43	9.65	0.08	0.21	QP
5	0.330	33.14	49.44	-16.30	23.12	9.64	0.07	0.31	Average
6	0.330	36.25	59.44	-23.19	26.23	9.64	0.07	0.31	QP
7	0.360	35.79	48.74	-12.95	25.75	9.64	0.08	0.32	Average
8	0.360	41.31	58.74	-17.43	31.27	9.64	0.08	0.32	QP
9*	0.387	37.38	48.12	-10.74	27.33	9.64	0.08	0.33	Average
10	0.387	43.72	58.12	-14.40	33.67	9.64	0.08	0.33	QP
11	19.122	15.88	50.00	-34.12	5.12	9.68	0.50	0.58	Average
12	19.122	20.98	60.00	-39.02	10.22	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	903

Test by : Joe Liao Temperature: 23°C Humidity: 63%

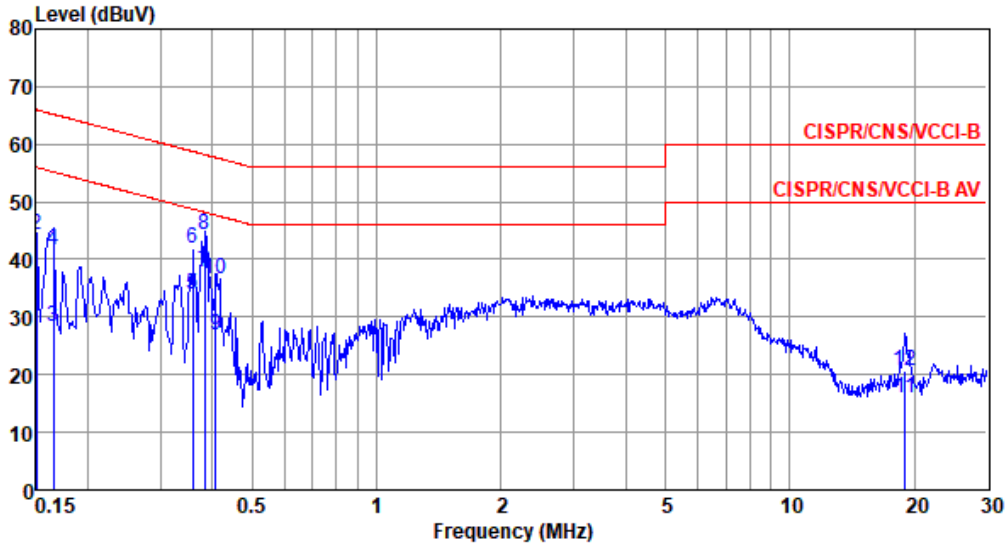


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.165	27.62	55.21	-27.59	17.75	9.66	0.07	0.14	Average
2	0.165	41.89	65.21	-23.32	32.02	9.66	0.07	0.14	QP
3	0.192	24.86	53.93	-29.07	14.99	9.65	0.06	0.16	Average
4	0.192	37.16	63.93	-26.77	27.29	9.65	0.06	0.16	QP
5*	0.360	37.97	48.74	-10.77	28.01	9.64	0.08	0.24	Average
6	0.360	41.25	58.74	-17.49	31.29	9.64	0.08	0.24	QP
7	0.377	25.92	48.34	-22.42	15.96	9.64	0.08	0.24	Average
8	0.377	37.40	58.34	-20.94	27.44	9.64	0.08	0.24	QP
9	0.393	30.80	47.99	-17.19	20.83	9.64	0.08	0.25	Average
10	0.393	41.80	57.99	-16.19	31.83	9.64	0.08	0.25	QP
11	19.224	13.72	50.00	-36.28	2.82	9.82	0.50	0.58	Average
12	19.224	18.44	60.00	-41.56	7.54	9.82	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	**Test Freq. (MHz)**	907.8

Test by : Joe Liao Temperature: 23°C Humidity: 63%

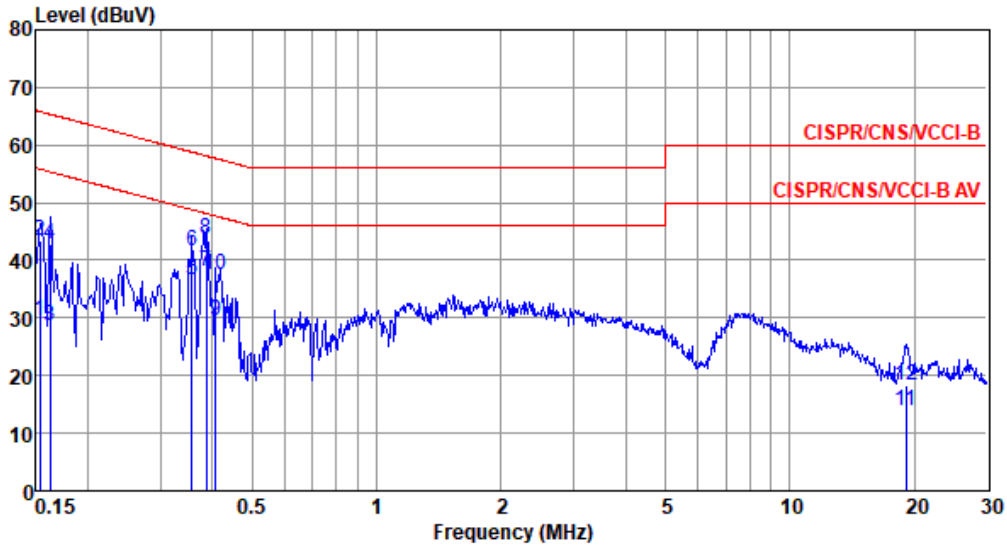


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	30.32	56.00	-25.68	20.39	9.65	0.08	0.20	Average
2	0.150	44.29	66.00	-21.71	34.36	9.65	0.08	0.20	QP
3	0.165	28.30	55.21	-26.91	18.36	9.65	0.07	0.22	Average
4	0.165	41.72	65.21	-23.49	31.78	9.65	0.07	0.22	QP
5	0.360	33.86	48.74	-14.88	23.82	9.64	0.08	0.32	Average
6	0.360	41.78	58.74	-16.96	31.74	9.64	0.08	0.32	QP
7*	0.383	37.90	48.21	-10.31	27.86	9.64	0.08	0.32	Average
8	0.383	44.31	58.21	-13.90	34.27	9.64	0.08	0.32	QP
9	0.408	26.78	47.68	-20.90	16.73	9.64	0.08	0.33	Average
10	0.408	36.58	57.68	-21.10	26.53	9.64	0.08	0.33	QP
11	19.021	15.99	50.00	-34.01	5.23	9.68	0.50	0.58	Average
12	19.021	20.74	60.00	-39.26	9.98	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	907.8

Test by : Joe Liao Temperature: 23°C Humidity: 63%

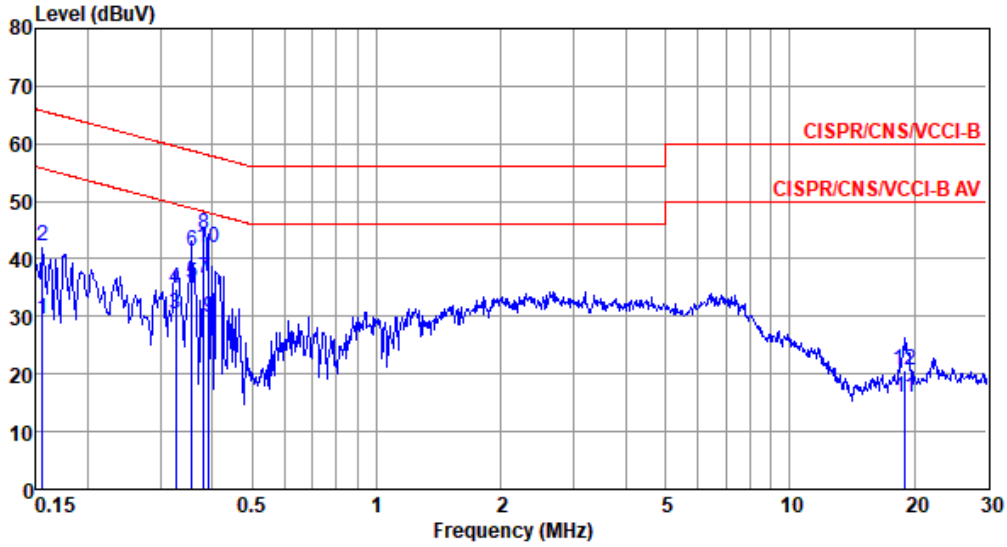


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.153	29.40	55.82	-26.42	19.54	9.66	0.08	0.12	Average
2	0.153	43.31	65.82	-22.51	33.45	9.66	0.08	0.12	QP
3	0.162	28.62	55.34	-26.72	18.76	9.66	0.07	0.13	Average
4	0.162	42.74	65.34	-22.60	32.88	9.66	0.07	0.13	QP
5	0.358	36.53	48.78	-12.25	26.57	9.64	0.08	0.24	Average
6	0.358	41.49	58.78	-17.29	31.53	9.64	0.08	0.24	QP
7*	0.387	38.10	48.12	-10.02	28.13	9.64	0.08	0.25	Average
8	0.387	43.74	58.12	-14.38	33.77	9.64	0.08	0.25	QP
9	0.408	29.39	47.68	-18.29	19.42	9.64	0.08	0.25	Average
10	0.408	37.53	57.68	-20.15	27.56	9.64	0.08	0.25	QP
11	19.122	13.82	50.00	-36.18	2.93	9.82	0.50	0.57	Average
12	19.122	18.22	60.00	-41.78	7.33	9.82	0.50	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	**Test Freq. (MHz)**	914.2

Test by : Joe Liao Temperature: 23°C Humidity: 63%

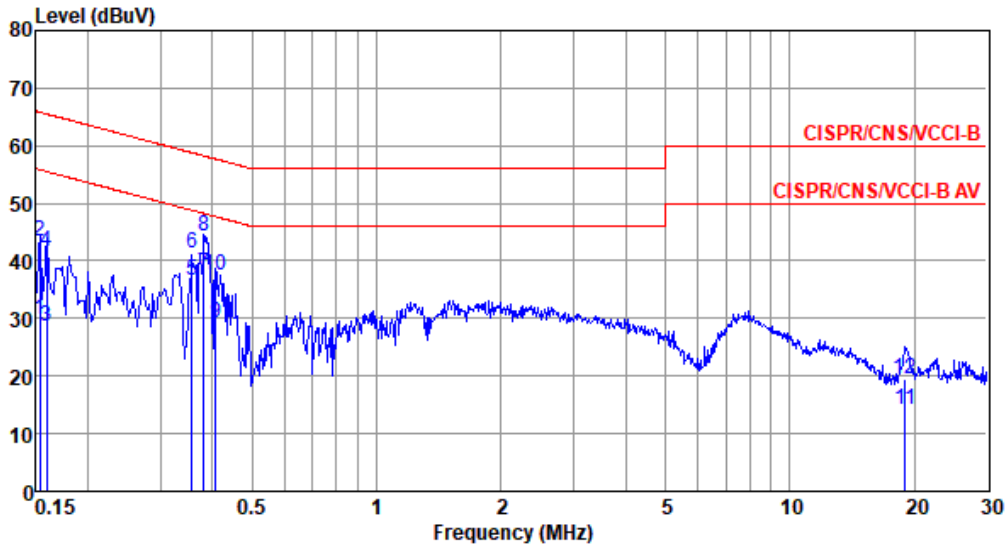


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.156	29.60	55.69	-26.09	19.66	9.65	0.08	0.21	Average
2	0.156	42.13	65.69	-23.56	32.19	9.65	0.08	0.21	QP
3	0.327	30.31	49.53	-19.22	20.29	9.64	0.07	0.31	Average
4	0.327	34.89	59.53	-24.64	24.87	9.64	0.07	0.31	QP
5	0.358	35.77	48.78	-13.01	25.73	9.64	0.08	0.32	Average
6	0.358	41.20	58.78	-17.58	31.16	9.64	0.08	0.32	QP
7*	0.381	36.64	48.25	-11.61	26.60	9.64	0.08	0.32	Average
8	0.381	44.38	58.25	-13.87	34.34	9.64	0.08	0.32	QP
9	0.393	29.89	47.99	-18.10	19.84	9.64	0.08	0.33	Average
10	0.393	41.88	57.99	-16.11	31.83	9.64	0.08	0.33	QP
11	19.021	15.88	50.00	-34.12	5.12	9.68	0.50	0.58	Average
12	19.021	20.74	60.00	-39.26	9.98	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	914.2

Test by : Joe Liao Temperature: 23°C Humidity: 63%

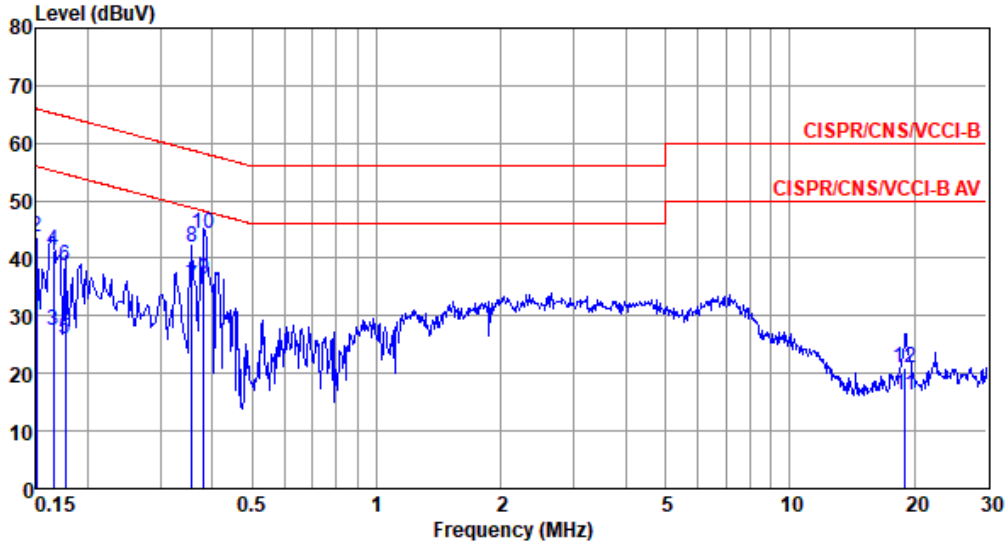


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.153	29.71	55.82	-26.11	19.85	9.66	0.08	0.12	Average
2	0.153	43.46	65.82	-22.36	33.60	9.66	0.08	0.12	QP
3	0.159	28.49	55.52	-27.03	18.62	9.66	0.08	0.13	Average
4	0.159	41.68	65.52	-23.84	31.81	9.66	0.08	0.13	QP
5	0.358	36.47	48.78	-12.31	26.51	9.64	0.08	0.24	Average
6	0.358	41.42	58.78	-17.36	31.46	9.64	0.08	0.24	QP
7*	0.381	37.83	48.25	-10.42	27.87	9.64	0.08	0.24	Average
8	0.381	44.20	58.25	-14.05	34.24	9.64	0.08	0.24	QP
9	0.408	29.15	47.68	-18.53	19.18	9.64	0.08	0.25	Average
10	0.408	37.53	57.68	-20.15	27.56	9.64	0.08	0.25	QP
11	19.021	14.12	50.00	-35.88	3.23	9.82	0.50	0.57	Average
12	19.021	19.46	60.00	-40.54	8.57	9.82	0.50	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	**Test Freq. (MHz)**	923.3

Test by : Joe Liao Temperature: 23°C Humidity: 63%

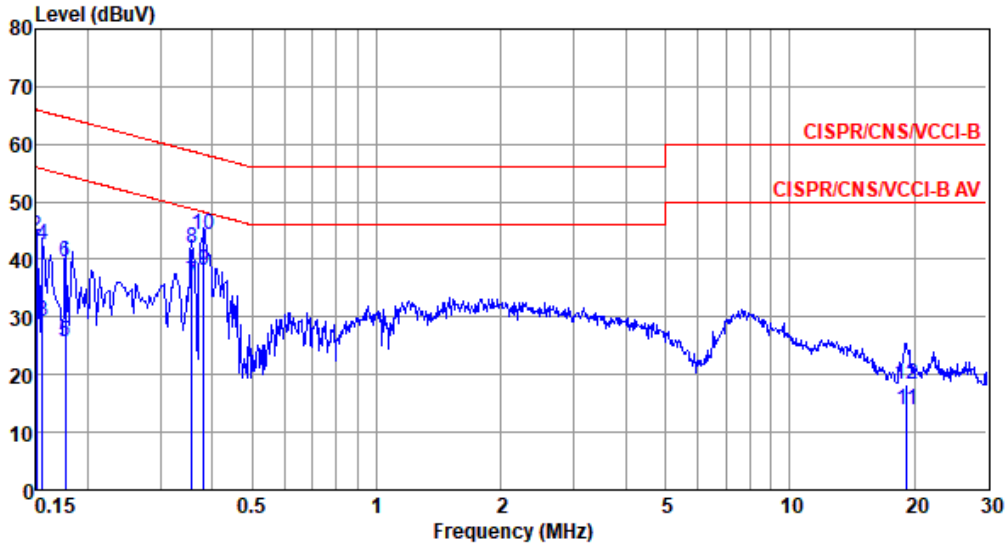


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	30.18	56.00	-25.82	20.25	9.65	0.08	0.20	Average
2	0.150	43.82	66.00	-22.18	33.89	9.65	0.08	0.20	QP
3	0.165	27.55	55.21	-27.66	17.61	9.65	0.07	0.22	Average
4	0.165	41.44	65.21	-23.77	31.50	9.65	0.07	0.22	QP
5	0.177	25.88	54.64	-28.76	15.93	9.65	0.07	0.23	Average
6	0.177	38.78	64.64	-25.86	28.83	9.65	0.07	0.23	QP
7	0.358	35.13	48.78	-13.65	25.09	9.64	0.08	0.32	Average
8	0.358	42.02	58.78	-16.76	31.98	9.64	0.08	0.32	QP
9*	0.381	36.27	48.25	-11.98	26.23	9.64	0.08	0.32	Average
10	0.381	44.16	58.25	-14.09	34.12	9.64	0.08	0.32	QP
11	19.021	16.26	50.00	-33.74	5.50	9.68	0.50	0.58	Average
12	19.021	20.95	60.00	-39.05	10.19	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	923.3

Test by : Joe Liao Temperature: 23°C Humidity: 63%

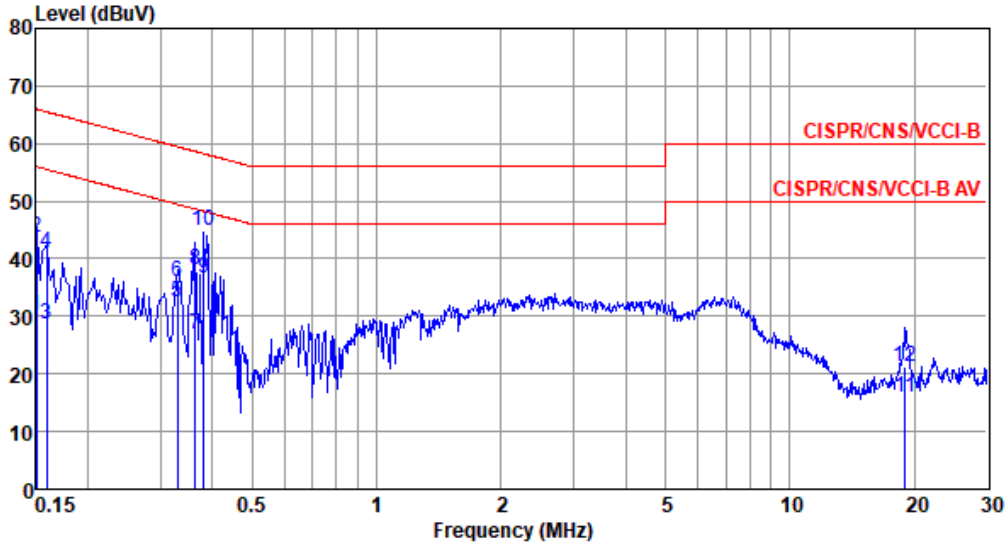


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	29.79	56.00	-26.21	19.93	9.66	0.08	0.12	Average
2	0.150	43.92	66.00	-22.08	34.06	9.66	0.08	0.12	QP
3	0.156	29.20	55.69	-26.49	19.33	9.66	0.08	0.13	Average
4	0.156	42.40	65.69	-23.29	32.53	9.66	0.08	0.13	QP
5	0.177	25.73	54.64	-28.91	15.86	9.65	0.07	0.15	Average
6	0.177	39.41	64.64	-25.23	29.54	9.65	0.07	0.15	QP
7	0.358	35.88	48.78	-12.90	25.92	9.64	0.08	0.24	Average
8	0.358	42.00	58.78	-16.78	32.04	9.64	0.08	0.24	QP
9*	0.381	38.09	48.25	-10.16	28.13	9.64	0.08	0.24	Average
10	0.381	44.26	58.25	-13.99	34.30	9.64	0.08	0.24	QP
11	19.224	13.83	50.00	-36.17	2.93	9.82	0.50	0.58	Average
12	19.224	18.33	60.00	-41.67	7.43	9.82	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	Test Freq. (MHz)	927.5

Test by : Joe Liao Temperature: 23°C Humidity: 63%

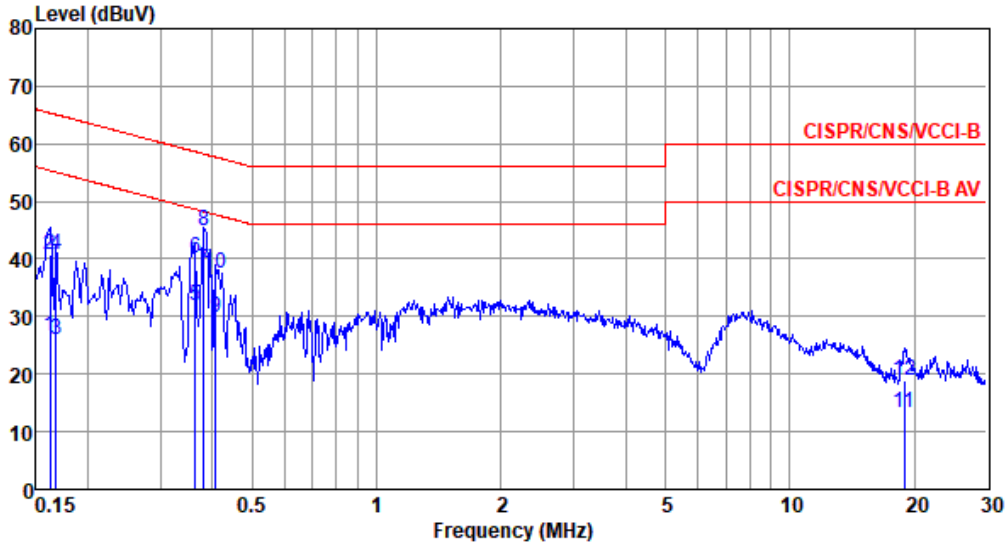


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	30.25	56.00	-25.75	20.32	9.65	0.08	0.20	Average
2	0.150	43.73	66.00	-22.27	33.80	9.65	0.08	0.20	QP
3	0.159	28.72	55.52	-26.80	18.78	9.65	0.08	0.21	Average
4	0.159	41.17	65.52	-24.35	31.23	9.65	0.08	0.21	QP
5	0.330	32.37	49.44	-17.07	22.35	9.64	0.07	0.31	Average
6	0.330	35.94	59.44	-23.50	25.92	9.64	0.07	0.31	QP
7	0.363	26.87	48.65	-21.78	16.83	9.64	0.08	0.32	Average
8	0.363	38.15	58.65	-20.50	28.11	9.64	0.08	0.32	QP
9*	0.381	36.70	48.25	-11.55	26.66	9.64	0.08	0.32	Average
10	0.381	44.96	58.25	-13.29	34.92	9.64	0.08	0.32	QP
11	19.021	15.87	50.00	-34.13	5.11	9.68	0.50	0.58	Average
12	19.021	21.25	60.00	-38.75	10.49	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	927.5

Test by : Joe Liao Temperature: 23°C Humidity: 63%



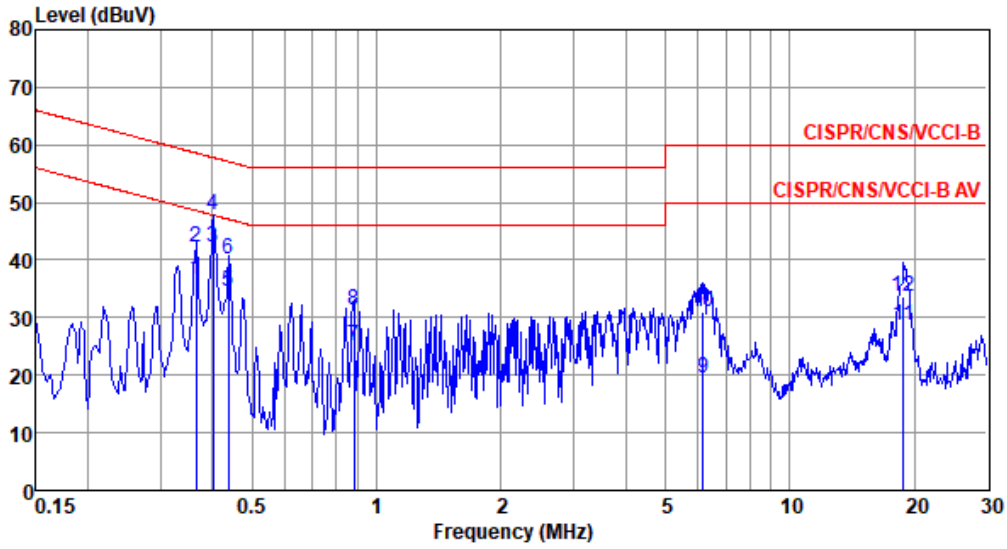
	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.162	26.65	55.34	-28.69	16.79	9.66	0.07	0.13	Average
2	0.162	40.76	65.34	-24.58	30.90	9.66	0.07	0.13	QP
3	0.168	26.07	55.08	-29.01	16.20	9.66	0.07	0.14	Average
4	0.168	40.79	65.08	-24.29	30.92	9.66	0.07	0.14	QP
5	0.363	31.89	48.65	-16.76	21.93	9.64	0.08	0.24	Average
6	0.363	40.01	58.65	-18.64	30.05	9.64	0.08	0.24	QP
7*	0.381	38.17	48.25	-10.08	28.21	9.64	0.08	0.24	Average
8	0.381	44.90	58.25	-13.35	34.94	9.64	0.08	0.24	QP
9	0.408	29.70	47.68	-17.98	19.73	9.64	0.08	0.25	Average
10	0.408	37.46	57.68	-20.22	27.49	9.64	0.08	0.25	QP
11	18.920	13.43	50.00	-36.57	2.54	9.82	0.50	0.57	Average
12	18.920	19.00	60.00	-41.00	8.11	9.82	0.50	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Test configuration 2: External antenna, POE mode

Power Phase	Line	Test Freq. (MHz)	903

Test by : Joe Liao Temperature: 23°C Humidity: 63%

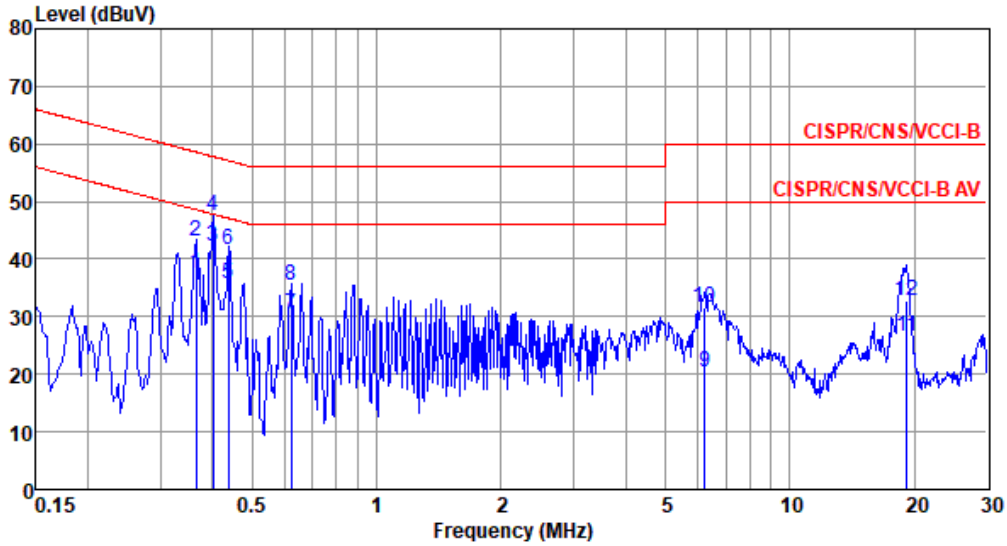


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	36.71	48.61	-11.90	26.67	9.64	0.08	0.32	Average
2	0.365	42.34	58.61	-16.27	32.30	9.64	0.08	0.32	QP
3*	0.402	42.36	47.81	-5.45	32.31	9.64	0.08	0.33	Average
4	0.402	47.74	57.81	-10.07	37.69	9.64	0.08	0.33	QP
5	0.437	34.43	47.11	-12.68	24.38	9.64	0.08	0.33	Average
6	0.437	40.08	57.11	-17.03	30.03	9.64	0.08	0.33	QP
7	0.880	25.15	46.00	-20.85	15.05	9.65	0.09	0.36	Average
8	0.880	31.33	56.00	-24.67	21.23	9.65	0.09	0.36	QP
9	6.153	19.47	50.00	-30.53	9.09	9.69	0.26	0.43	Average
10	6.153	30.89	60.00	-29.11	20.51	9.69	0.26	0.43	QP
11	18.820	28.52	50.00	-21.48	17.76	9.68	0.50	0.58	Average
12	18.820	33.57	60.00	-26.43	22.81	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	903

Test by : Joe Liao Temperature: 23°C Humidity: 63%

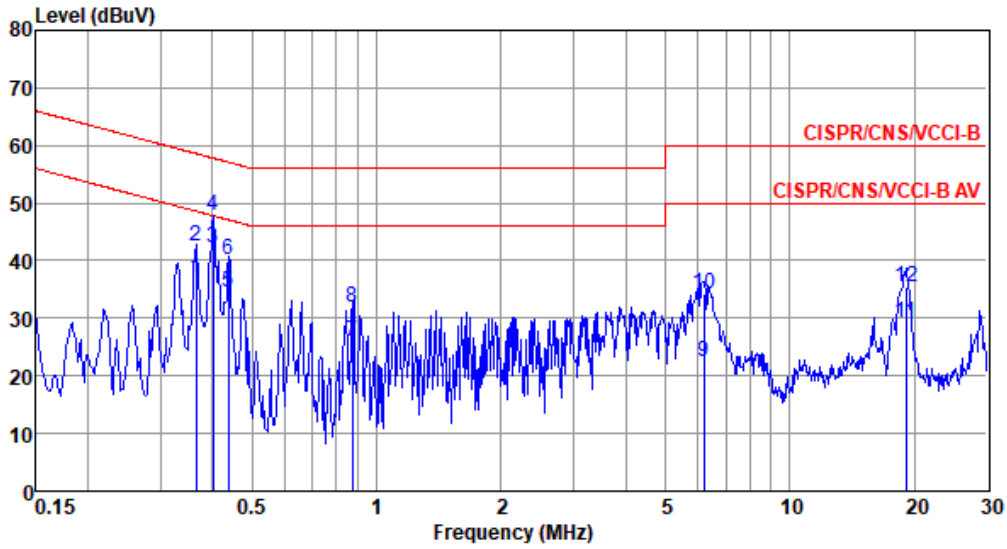


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	37.40	48.61	-11.21	27.44	9.64	0.08	0.24	Average
2	0.365	42.99	58.61	-15.62	33.03	9.64	0.08	0.24	QP
3*	0.402	42.35	47.81	-5.46	32.38	9.64	0.08	0.25	Average
4	0.402	47.40	57.81	-10.41	37.43	9.64	0.08	0.25	QP
5	0.437	35.77	47.11	-11.34	25.80	9.64	0.08	0.25	Average
6	0.437	41.49	57.11	-15.62	31.52	9.64	0.08	0.25	QP
7	0.621	30.47	46.00	-15.53	20.48	9.64	0.08	0.27	Average
8	0.621	35.45	56.00	-20.55	25.46	9.64	0.08	0.27	QP
9	6.219	20.43	50.00	-29.57	10.05	9.71	0.26	0.41	Average
10	6.219	31.56	60.00	-28.44	21.18	9.71	0.26	0.41	QP
11	19.224	26.43	50.00	-23.57	15.53	9.82	0.50	0.58	Average
12	19.224	32.63	60.00	-27.37	21.73	9.82	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	Test Freq. (MHz)	907.8

Test by : Joe Liao Temperature: 23°C Humidity: 63%

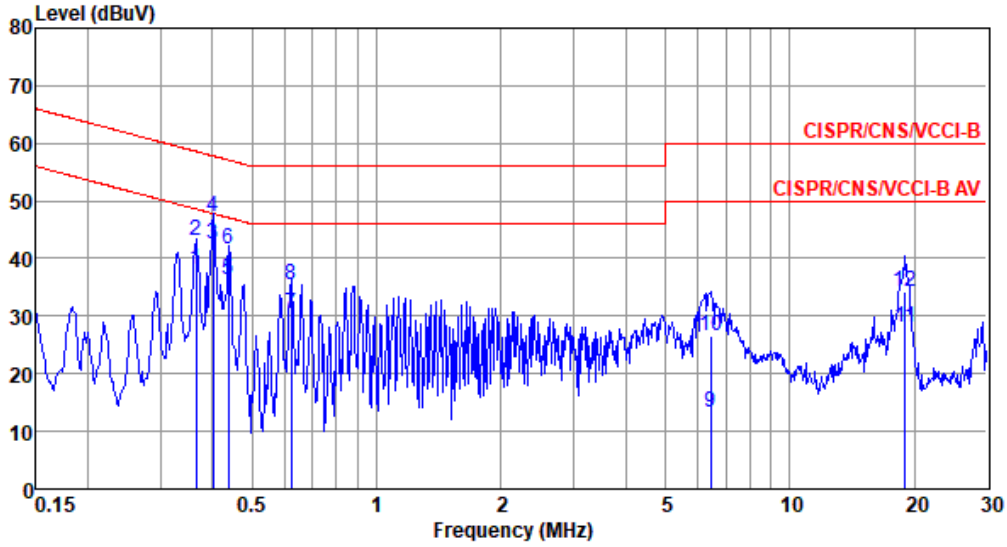


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	36.87	48.61	-11.74	26.83	9.64	0.08	0.32	Average
2	0.365	42.39	58.61	-16.22	32.35	9.64	0.08	0.32	QP
3*	0.402	42.33	47.81	-5.48	32.28	9.64	0.08	0.33	Average
4	0.402	47.80	57.81	-10.01	37.75	9.64	0.08	0.33	QP
5	0.437	34.50	47.11	-12.61	24.45	9.64	0.08	0.33	Average
6	0.437	40.18	57.11	-16.93	30.13	9.64	0.08	0.33	QP
7	0.876	26.06	46.00	-19.94	15.96	9.65	0.09	0.36	Average
8	0.876	31.81	56.00	-24.19	21.71	9.65	0.09	0.36	QP
9	6.186	22.47	50.00	-27.53	12.09	9.69	0.26	0.43	Average
10	6.186	34.18	60.00	-25.82	23.80	9.69	0.26	0.43	QP
11	19.122	29.16	50.00	-20.84	18.40	9.68	0.50	0.58	Average
12	19.122	35.30	60.00	-24.70	24.54	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	907.8

Test by : Joe Liao Temperature: 23°C Humidity: 63%

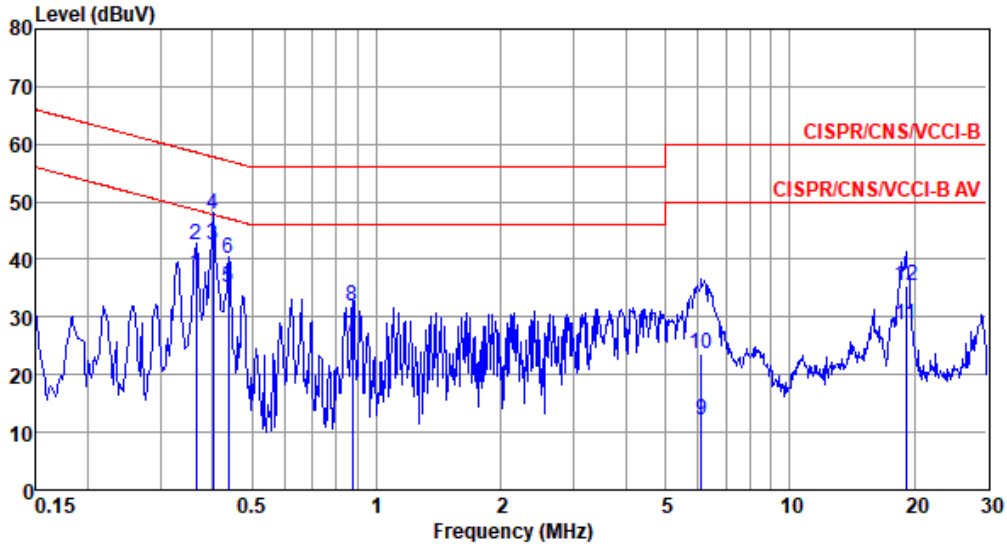


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	37.97	48.61	-10.64	28.01	9.64	0.08	0.24	Average
2	0.365	42.97	58.61	-15.64	33.01	9.64	0.08	0.24	QP
3*	0.402	42.62	47.81	-5.19	32.65	9.64	0.08	0.25	Average
4	0.402	47.35	57.81	-10.46	37.38	9.64	0.08	0.25	QP
5	0.437	36.40	47.11	-10.71	26.43	9.64	0.08	0.25	Average
6	0.437	41.49	57.11	-15.62	31.52	9.64	0.08	0.25	QP
7	0.621	30.40	46.00	-15.60	20.41	9.64	0.08	0.27	Average
8	0.621	35.46	56.00	-20.54	25.47	9.64	0.08	0.27	QP
9	6.420	13.34	50.00	-36.66	2.95	9.71	0.27	0.41	Average
10	6.420	26.45	60.00	-33.55	16.06	9.71	0.27	0.41	QP
11	19.021	27.96	50.00	-22.04	17.07	9.82	0.50	0.57	Average
12	19.021	34.16	60.00	-25.84	23.27	9.82	0.50	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	**Test Freq. (MHz)**	914.2

Test by : Joe Liao Temperature: 23°C Humidity: 63%

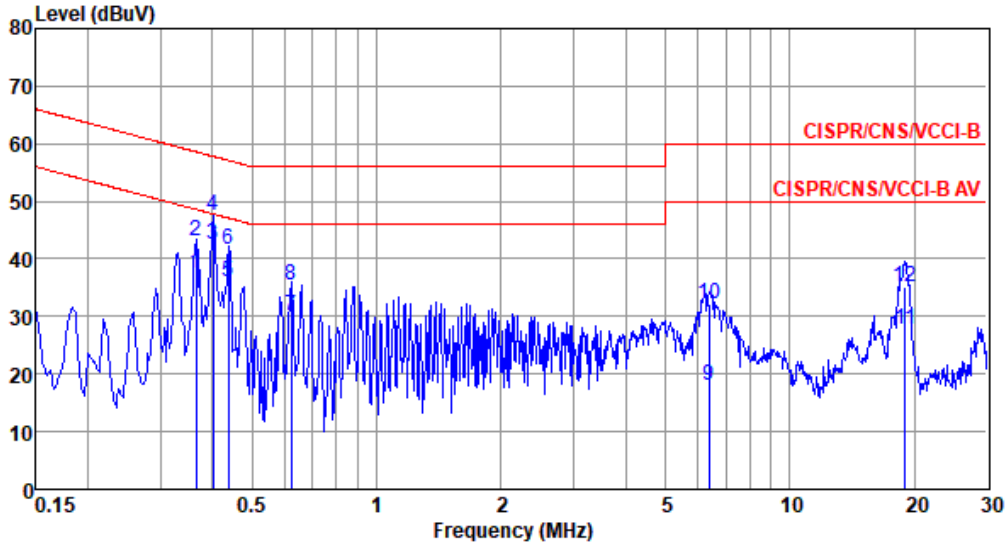


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	37.45	48.61	-11.16	27.41	9.64	0.08	0.32	Average
2	0.365	42.38	58.61	-16.23	32.34	9.64	0.08	0.32	QP
3*	0.402	42.42	47.81	-5.39	32.37	9.64	0.08	0.33	Average
4	0.402	47.79	57.81	-10.02	37.74	9.64	0.08	0.33	QP
5	0.437	35.04	47.11	-12.07	24.99	9.64	0.08	0.33	Average
6	0.437	40.16	57.11	-16.95	30.11	9.64	0.08	0.33	QP
7	0.876	26.63	46.00	-19.37	16.53	9.65	0.09	0.36	Average
8	0.876	31.88	56.00	-24.12	21.78	9.65	0.09	0.36	QP
9	6.121	12.10	50.00	-37.90	1.72	9.69	0.26	0.43	Average
10	6.121	23.72	60.00	-36.28	13.34	9.69	0.26	0.43	QP
11	19.122	28.67	50.00	-21.33	17.91	9.68	0.50	0.58	Average
12	19.122	35.30	60.00	-24.70	24.54	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	914.2

Test by : Joe Liao Temperature: 23°C Humidity: 63%

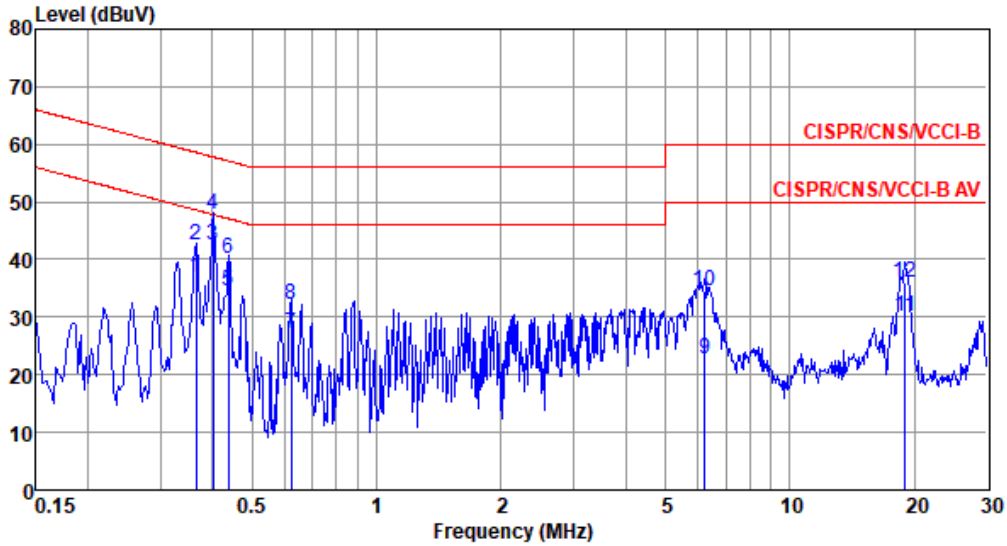


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	37.45	48.61	-11.16	27.49	9.64	0.08	0.24	Average
2	0.365	43.06	58.61	-15.55	33.10	9.64	0.08	0.24	QP
3*	0.402	42.49	47.81	-5.32	32.52	9.64	0.08	0.25	Average
4	0.402	47.44	57.81	-10.37	37.47	9.64	0.08	0.25	QP
5	0.437	35.89	47.11	-11.22	25.92	9.64	0.08	0.25	Average
6	0.437	41.58	57.11	-15.53	31.61	9.64	0.08	0.25	QP
7	0.621	30.12	46.00	-15.88	20.13	9.64	0.08	0.27	Average
8	0.621	35.51	56.00	-20.49	25.52	9.64	0.08	0.27	QP
9	6.386	18.07	50.00	-31.93	7.68	9.71	0.27	0.41	Average
10	6.386	32.04	60.00	-27.96	21.65	9.71	0.27	0.41	QP
11	19.021	27.68	50.00	-22.32	16.79	9.82	0.50	0.57	Average
12	19.021	35.13	60.00	-24.87	24.24	9.82	0.50	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	**Test Freq. (MHz)**	923.3

Test by : Joe Liao Temperature: 23°C Humidity: 63%

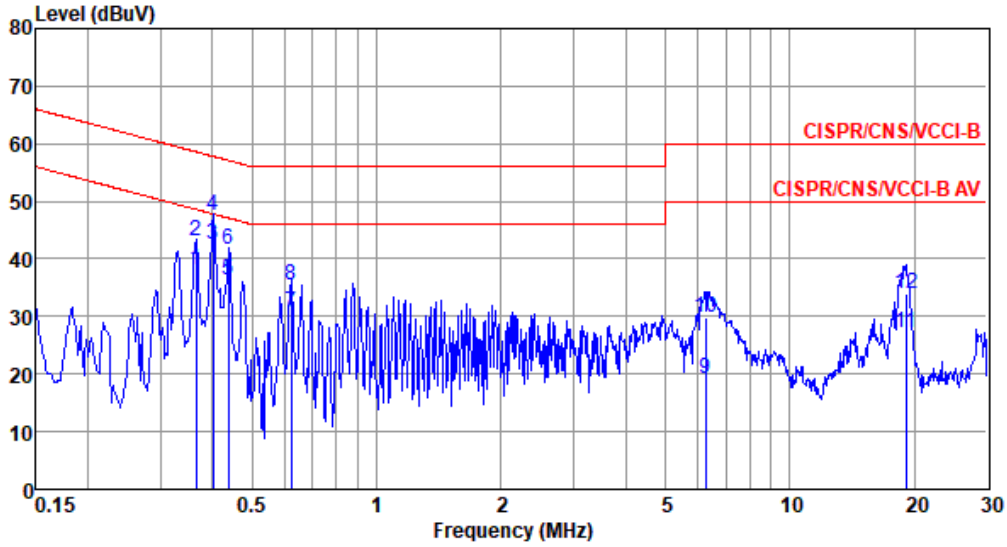


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	36.98	48.61	-11.63	26.94	9.64	0.08	0.32	Average
2	0.365	42.47	58.61	-16.14	32.43	9.64	0.08	0.32	QP
3*	0.402	42.50	47.81	-5.31	32.45	9.64	0.08	0.33	Average
4	0.402	47.82	57.81	-9.99	37.77	9.64	0.08	0.33	QP
5	0.437	34.58	47.11	-12.53	24.53	9.64	0.08	0.33	Average
6	0.437	40.24	57.11	-16.87	30.19	9.64	0.08	0.33	QP
7	0.621	27.04	46.00	-18.96	16.98	9.64	0.08	0.34	Average
8	0.621	32.30	56.00	-23.70	22.24	9.64	0.08	0.34	QP
9	6.219	22.78	50.00	-27.22	12.40	9.69	0.26	0.43	Average
10	6.219	34.62	60.00	-25.38	24.24	9.69	0.26	0.43	QP
11	19.021	30.12	50.00	-19.88	19.36	9.68	0.50	0.58	Average
12	19.021	36.15	60.00	-23.85	25.39	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	923.3

Test by : Joe Liao Temperature: 23°C Humidity: 63%

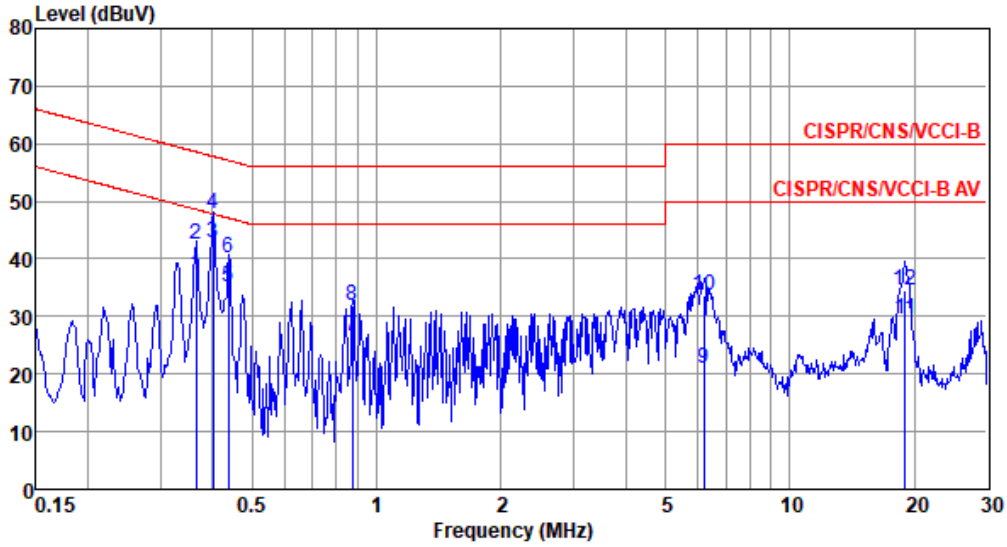


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	38.09	48.61	-10.52	28.13	9.64	0.08	0.24	Average
2	0.365	43.03	58.61	-15.58	33.07	9.64	0.08	0.24	QP
3*	0.402	42.48	47.81	-5.33	32.51	9.64	0.08	0.25	Average
4	0.402	47.45	57.81	-10.36	37.48	9.64	0.08	0.25	QP
5	0.437	36.43	47.11	-10.68	26.46	9.64	0.08	0.25	Average
6	0.437	41.58	57.11	-15.53	31.61	9.64	0.08	0.25	QP
7	0.621	30.72	46.00	-15.28	20.73	9.64	0.08	0.27	Average
8	0.621	35.50	56.00	-20.50	25.51	9.64	0.08	0.27	QP
9	6.252	19.09	50.00	-30.91	8.71	9.71	0.26	0.41	Average
10	6.252	29.92	60.00	-30.08	19.54	9.71	0.26	0.41	QP
11	19.122	27.26	50.00	-22.74	16.37	9.82	0.50	0.57	Average
12	19.122	33.83	60.00	-26.17	22.94	9.82	0.50	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Line	**Test Freq. (MHz)**	927.5

Test by : Joe Liao Temperature: 23°C Humidity: 63%

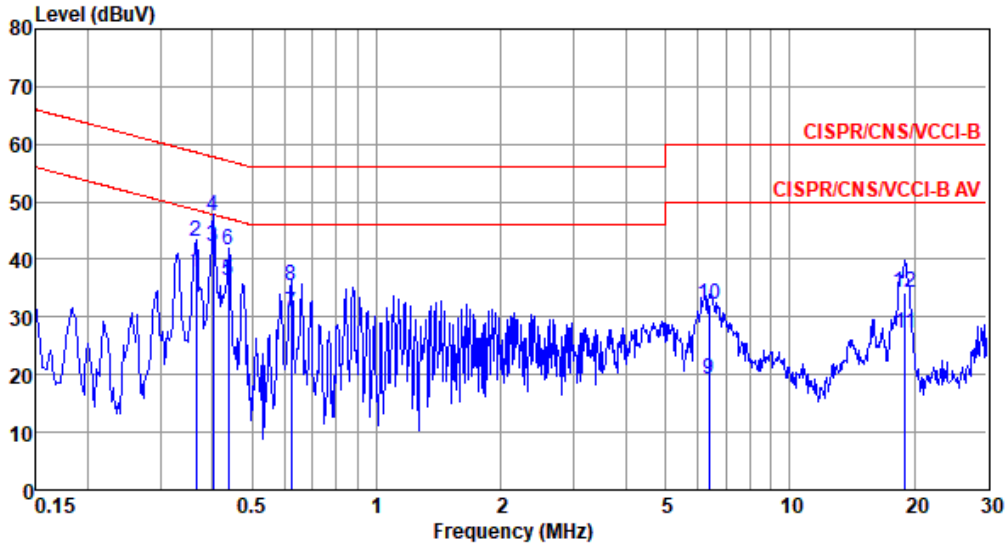


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	37.33	48.61	-11.28	27.29	9.64	0.08	0.32	Average
2	0.365	42.45	58.61	-16.16	32.41	9.64	0.08	0.32	QP
3*	0.402	42.93	47.81	-4.88	32.88	9.64	0.08	0.33	Average
4	0.402	47.73	57.81	-10.08	37.68	9.64	0.08	0.33	QP
5	0.437	35.14	47.11	-11.97	25.09	9.64	0.08	0.33	Average
6	0.437	40.25	57.11	-16.86	30.20	9.64	0.08	0.33	QP
7	0.876	26.43	46.00	-19.57	16.33	9.65	0.09	0.36	Average
8	0.876	31.99	56.00	-24.01	21.89	9.65	0.09	0.36	QP
9	6.186	21.10	50.00	-28.90	10.72	9.69	0.26	0.43	Average
10	6.186	33.76	60.00	-26.24	23.38	9.69	0.26	0.43	QP
11	19.021	29.59	50.00	-20.41	18.83	9.68	0.50	0.58	Average
12	19.021	34.58	60.00	-25.42	23.82	9.68	0.50	0.58	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Power Phase	Neutral	**Test Freq. (MHz)**	927.5

Test by : Joe Liao Temperature: 23°C Humidity: 63%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.365	37.91	48.61	-10.70	27.95	9.64	0.08	0.24	Average
2	0.365	43.08	58.61	-15.53	33.12	9.64	0.08	0.24	QP
3*	0.402	42.21	47.81	-5.60	32.24	9.64	0.08	0.25	Average
4	0.402	47.56	57.81	-10.25	37.59	9.64	0.08	0.25	QP
5	0.437	36.44	47.11	-10.67	26.47	9.64	0.08	0.25	Average
6	0.437	41.61	57.11	-15.50	31.64	9.64	0.08	0.25	QP
7	0.621	30.68	46.00	-15.32	20.69	9.64	0.08	0.27	Average
8	0.621	35.52	56.00	-20.48	25.53	9.64	0.08	0.27	QP
9	6.386	19.08	50.00	-30.92	8.69	9.71	0.27	0.41	Average
10	6.386	32.21	60.00	-27.79	21.82	9.71	0.27	0.41	QP
11	19.021	27.22	50.00	-22.78	16.33	9.82	0.50	0.57	Average
12	19.021	34.11	60.00	-25.89	23.22	9.82	0.50	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).