

Prüfbericht-Nr.: Test report no.:	CN20DOUR (LP0002-2.4G) 001	Auftrags-Nr.: Order no.:	238491635	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2020-09-14	
Auftraggeber: Client:	Audeze LLC. 3410 S Susan st, Santa Ana, CA 92704, USA			
Prüfgegenstand: Test item:	Penrose Wireless Dongle			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Penrose P TX, Penrose X TX			
Auftrags-Inhalt: Order content:	NCC LP0002 Test Report (2.4G)			
Prüfgrundlage: Test specification:	NCC Low-power Radio-frequency Devices Technology Regulations LP0002 (2018) Section 3.10.1			
Wareneingangsdatum: Date of sample receipt:	2020-10-05			
Prüfmuster-Nr.: Test sample no:	A002923011-051 A002923011-044			
Prüfzeitraum: Testing period:	2020-10-19 - 2020-11-03			
Ort der Prüfung: Place of testing:	EMC/RF Laboratory Taipei			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: reviewed by:	genehmigt von: authorized by:			
Datum: Date: 2020-11-06				
Stellung / Position:	Jack Chang Senior Project Manager	Ausstellungsdatum: Issue date: 2020-11-06	Brenda Chen Senior Project Manager	
Sonstiges / Other:	The dongle variants is integrating Secure IC option as following, The RF characteristics and PCB layout between Penrose P TX and Penrose X TX are the same • Penrose X TX contains Microsoft Secure IC(U7) • Penrose P TX is without Microsoft Secure IC(U7) The Secure IC is a pre-configured and pre-provisioned secure element of security focused devices.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

TEST SUMMARY

Report Section	NCC Clause	Test Item	Result
5.1.1	LP0002 3.10.1.3 & 3.10.1.4	Antenna Requirement	Pass
5.1.2	LP0002 3.10.1.2	Peak Output Power	Pass
5.1.3	LP0002 3.10.1.6	6 dB Bandwidth	Pass
5.1.4	LP0002 3.10.1.6	Power Spectral Density	Pass
5.1.5	LP0002 3.10.1.5	Conducted Spurious Emissions and Band Edges	Pass
5.1.6	LP0002 3.10.1.5	Radiated Spurious Emissions and Band Edges	Pass
5.2.1	LP0002 2.3	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF CONDUCTED

**APPENDIX B - TEST RESULT OF RADIATED SPURIOUS EMISSIONS & MAINS CONDUCTED
EMISSION**

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN20DOUR (LP0002-2.4G) 001	Original Release	2020-11-06

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted

Appendix B - Test Result of Radiated Spurious Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
NCC Low-power Radio-frequency Devices Technical Regulations LP0002 (2018) (107 年 1 月 10 日) ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 226631
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

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

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Penrose Wireless Dongle. It contains a 2.4GHz compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Penrose Wireless Dongle
Type Identification	Penrose P TX, Penrose X TX
Brand Name	AUDEZE

Technical Specification of EUT

Item	EUT information
Operating Frequency	2403.35 MHz ~ 2479.35 MHz
Channel Spacing	2 MHz
Channel number	39
Operation Voltage	5 Vdc
Modulation	Pi/4 DQPSK
Maximum Output Power (mW)	1.05
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.3

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

The worst sample identified as primary model for testing is 'with Microsoft Secure IC(U7)' component.

Table for Parameters of Test Software Setting

	Frequency (MHz)	Power Setting
Ant 1	2403.35	0x01
	2441.35	0x00
	2479.35	0x01
Ant 2	2403.35	0x01
	2441.35	0x00
	2479.35	0x02

4.2 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	AVServe.exe
---------------	-------------

The samples were used as follows:

A002923011-051

A002923011-044

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Z-plane**.
2. "-" means no effect.

Antenna Port Conducted Measurement

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
ANT 1 / ANT 2	2403.35 to 2479.35	2403.35, 2441.35, 2479.35

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
Tx		
ANT 1 / ANT 2	2403.35 to 2479.35	2403.35, 2441.35, 2479.35
Rx		
ANT 1	2403.35 to 2479.35	2479.35

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
Tx / Rx		
ANT 1	2403.35 to 2479.35	2479.35

Mains Conducted Emission

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	2403.35 to 2479.35	2479.35

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	22-26 °C	55-70 %	Chun Wu
Radiated Spurious Emissions above 1 GHz	22 °C	55.4 %	Simon Tsai
Radiated Spurious Emissions below 1 GHz	22 °C	55.4 %	Simon Tsai
Mains Conducted Emission	26 °C	65 %	Kay Wu

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

No.	Product	Brand	Model	Description
-	Penrose Wireless Stereo Headset	AUDEZE	Penrose P RX Penrose X RX	--
A	USB Cable	AUDEZE	Penrose P RX Penrose X RX	300 cm shielded cable w/o core
-	Microphone	AUDEZE	Penrose P RX Penrose X RX	--

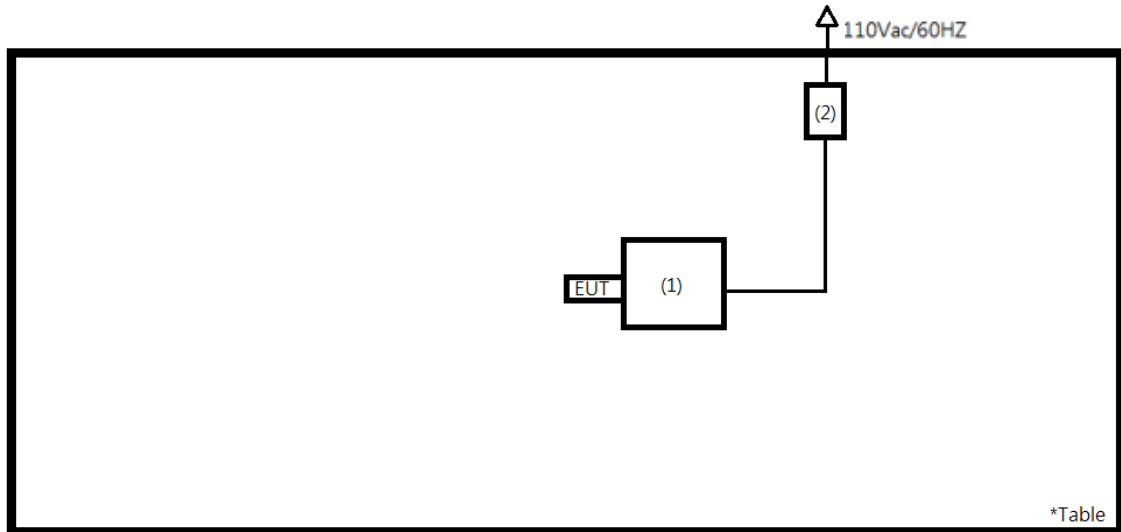
Support Unit

Support Unit					
No.	Description	Brand	Model	S/N	Remark
1	Notebook	HP	15s-du0007TX	CND93662VF	--
2	Adapter	HP	TPN-CA16	N/A	--

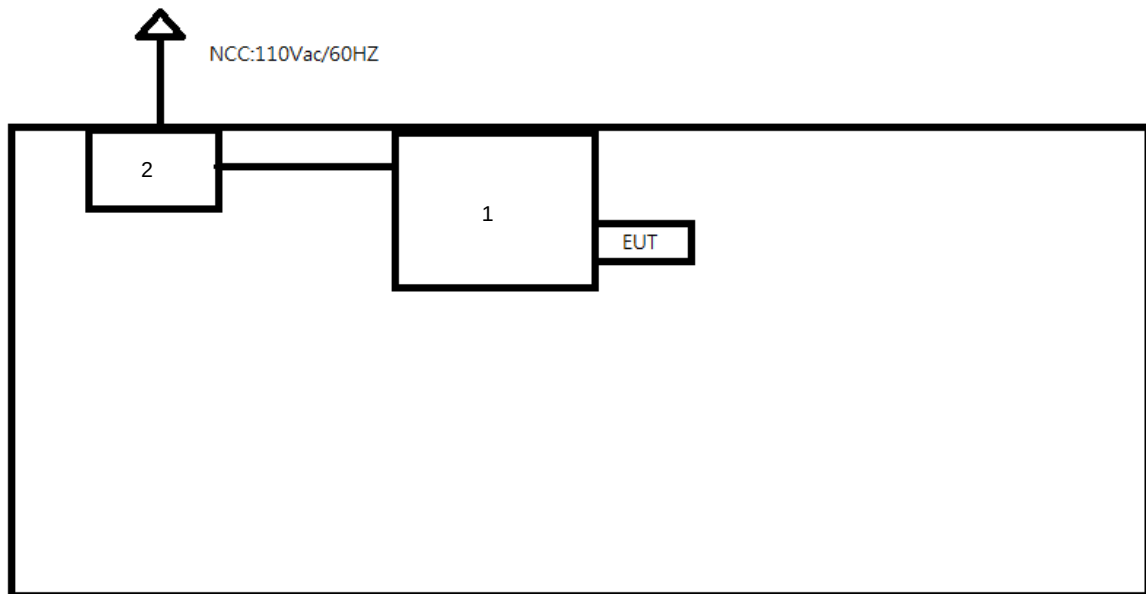
Interface Cable					
No.	Description	Shielded Type	Ferrite Core (Qty)	Length (cm)	Remark
2	Adapter Cable	NO	0	180	--

4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Brand Name	Model No.	Antenna Type	Antenna Gain (dBi)
Unictron	CW324S	Chip Antenna	1.6

There are two chip antennas (Ant 1 and Ant 2) use for 2.4GHz function and supports SISO mode only.

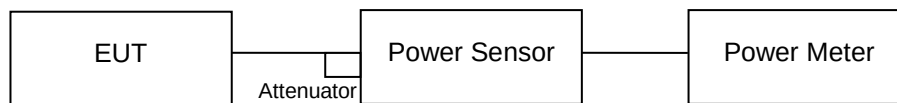
Refer to EUT photo for details.

5.1.2 Peak Output Power

Limit 1 watt (30 dBm)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Power Meter	Anritsu	ML2495A	1901008	2020/4/6	2021/4/5
Power Sensor	Anritsu	MA2411B	1725269	2020/4/7	2021/4/6

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Test Result
Peak Output Power
<ANT 1>

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2402	0.21	1.05	30
Middle Channel	2440	-1.15	0.77	30
High Channel	2480	-2.74	0.53	30

<ANT 2>

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2402	-0.63	0.86	30
Middle Channel	2440	-1.88	0.65	30
High Channel	2480	-3.16	0.48	30

Average Power
<Ant 1>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2403.35	-1.51	0.71
Middle Channel	2441.35	-2.85	0.52
High Channel	2479.35	-4.73	0.34

<Ant 2>

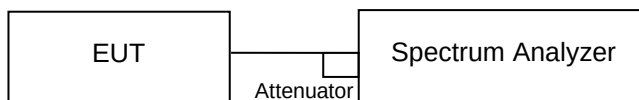
Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2403.35	-2.42	0.57
Middle Channel	2441.35	-3.58	0.44
High Channel	2479.35	-5.22	0.30

5.1.3 6 dB Bandwidth

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

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedure

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

Test Results

Please refer to Appendix A.

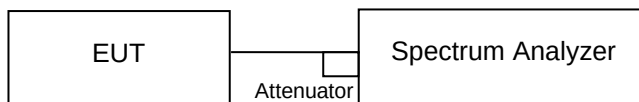
5.1.4 Power Spectral Density

Limit

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

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Results

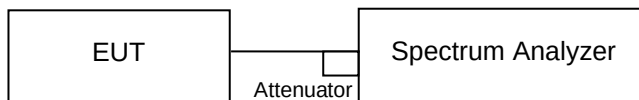
Please refer to Appendix A.

5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

Limit

20 dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

Kind of Test Site Shielded room

Test Setup**Test Instruments**

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedure

Measurement procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement procedure OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Results

Please refer to Appendix A.

5.1.6 Radiated Spurious Emissions and Band Edges

Limit

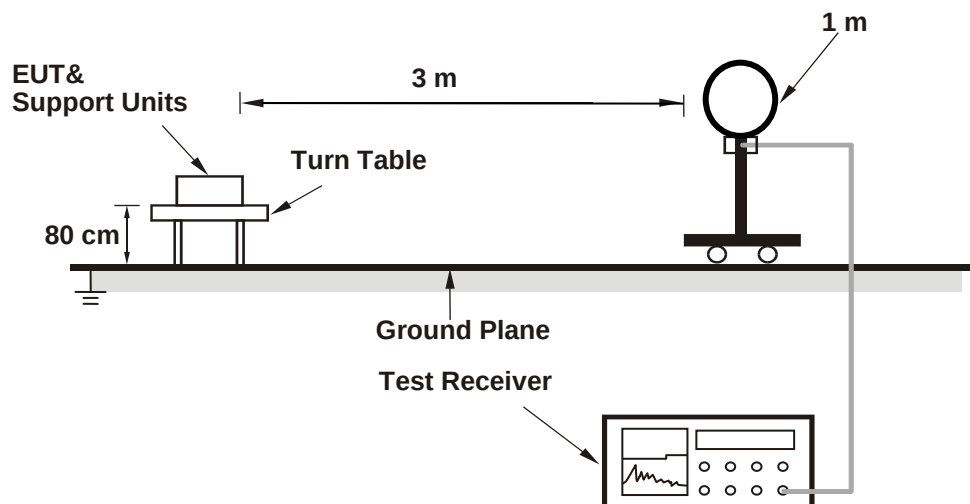
Radiated emissions which fall in the restricted bands, as defined in LP0002 (2018): 2.7, must comply with the radiated emission limits specified in LP0002 (2018): 2.8.

Emissions radiated outside the specified frequency bands must comply with the radiated emission limits specified in LP0002 (2018): 2.8.

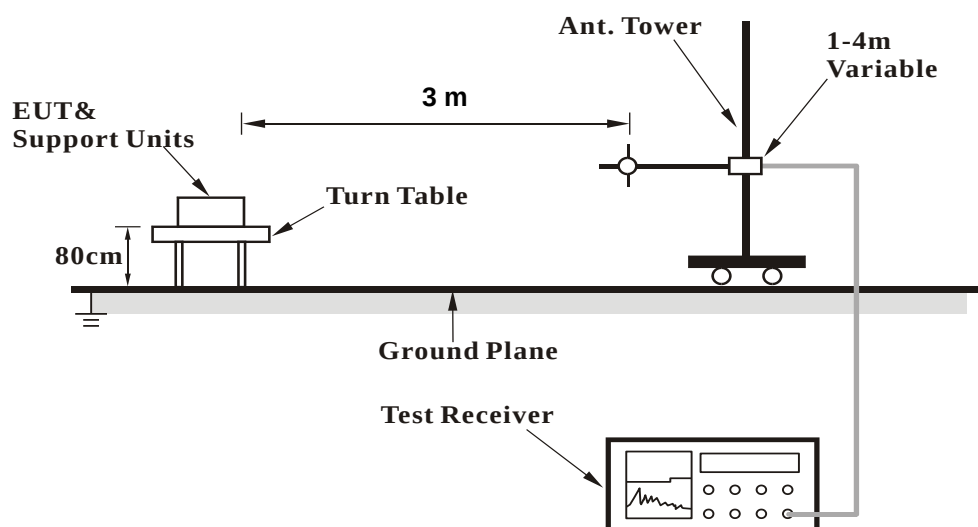
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

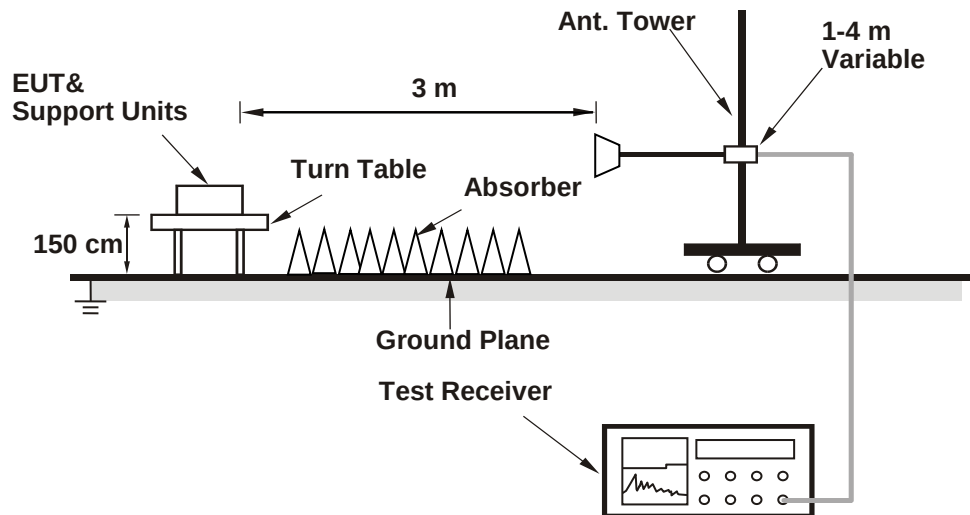
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101508	2020/3/16	2021/3/15
Receiver	R&S	ESR7	102108	2020/4/22	2021/4/21
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2020/2/14	2021/2/13
Horn Antenna	ETS-Lindgren	3117	00218930	2019/12/6	2020/12/5
LF-AMP	Agilent	8447D	2944A10772	2020/2/11	2021/2/10
HF-AMP + AC source	EMCI	EMC051845SE	980633	2020/2/17	2021/2/16
HF-AMP + AC source	EMCI	EMC184045SE	980657	2020/2/17	2021/2/16
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2020/4/10	2021/4/9
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2020/4/22	2021/4/21
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2020/1/9	2021/1/8

Test Procedures**For Radiated Emissions below 30 MHz**

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

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

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

5.2 Mains Emission

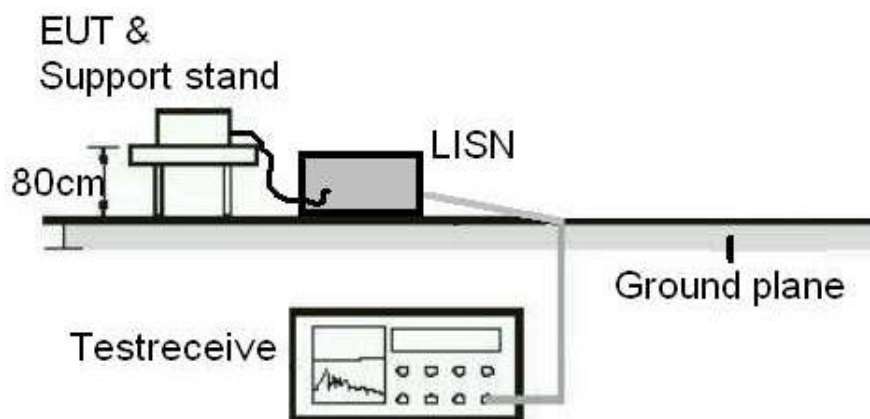
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emission as defined in LP0002 standard must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
EMI Test Receiver	Rohde & Schwarz	ESR 7	102114	2020/04/13	2021/04/13
Two-Line V-Network (for EUT)	Rohde & Schwarz	ENV216	101262	2020/08/04	2021/08/04
Pulse Limiter	Schwarzbeck	VTSD 9561 F-N	00660	2020/02/24	2021/02/24
Test Software	Audix	e3	Ver. 9	N/A	N/A

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

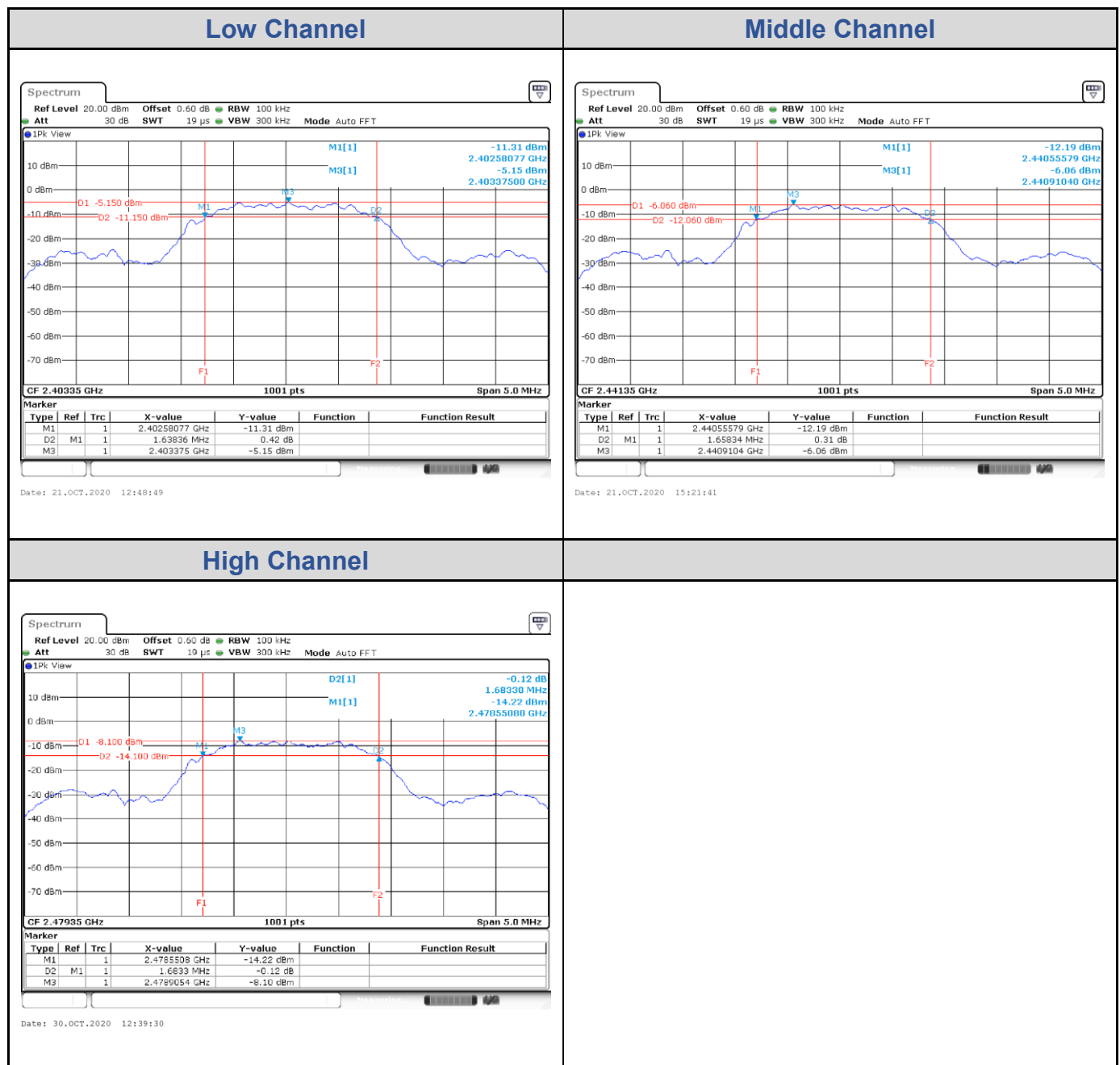
Please refer to Appendix B.

Appendix A: Test Results of Conducted Test

Test Result of 6 dB Bandwidth

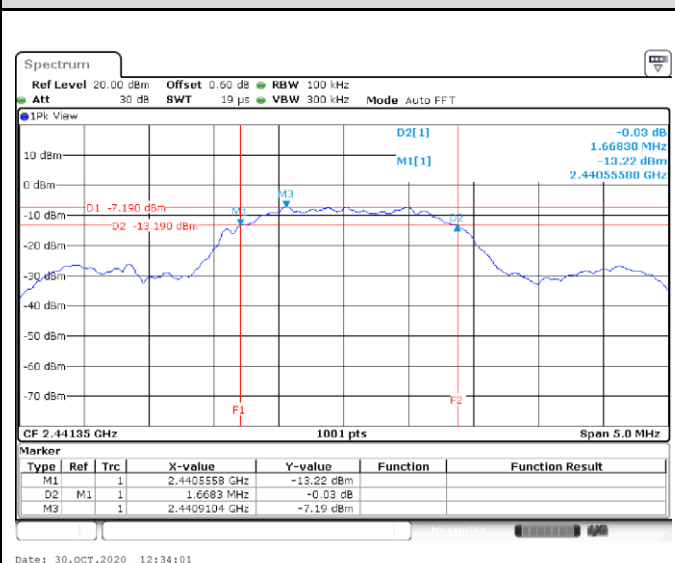
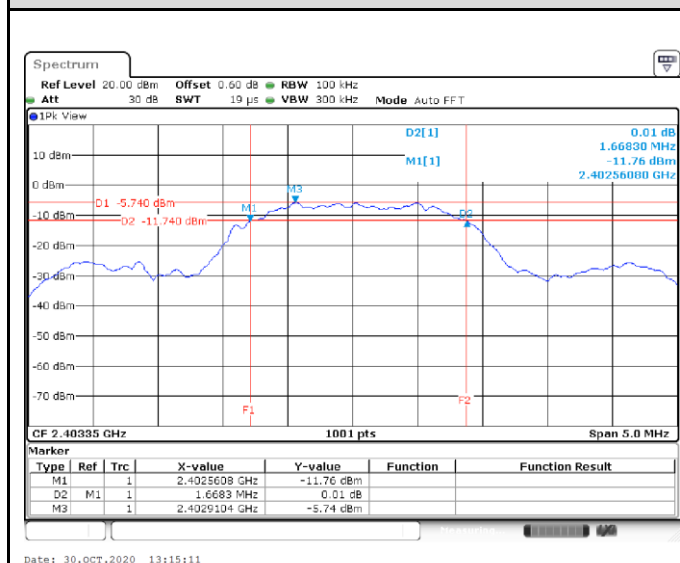
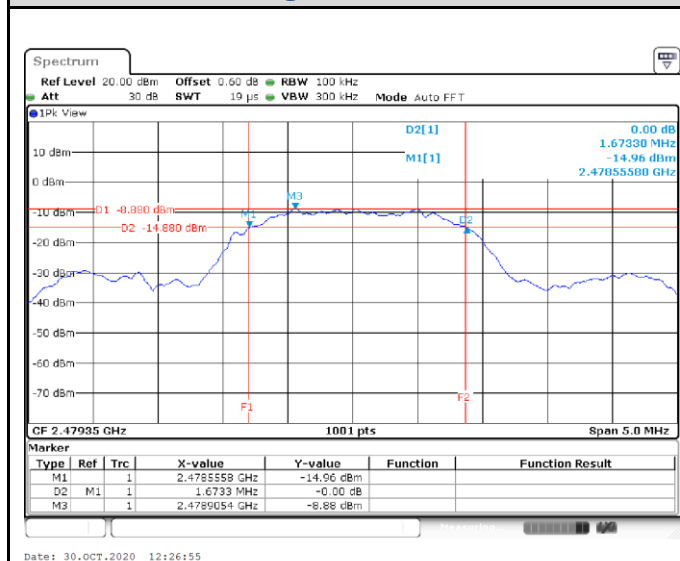
ANT 1

Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2403.35	1638.36	> 500	Pass
Middle Channel	2441.35	1658.34	> 500	Pass
High Channel	2479.35	1683.30	> 500	Pass



ANT 2

Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2403.35	1668.30	> 500	Pass
Middle Channel	2441.35	1668.30	> 500	Pass
High Channel	2479.35	1673.30	> 500	Pass

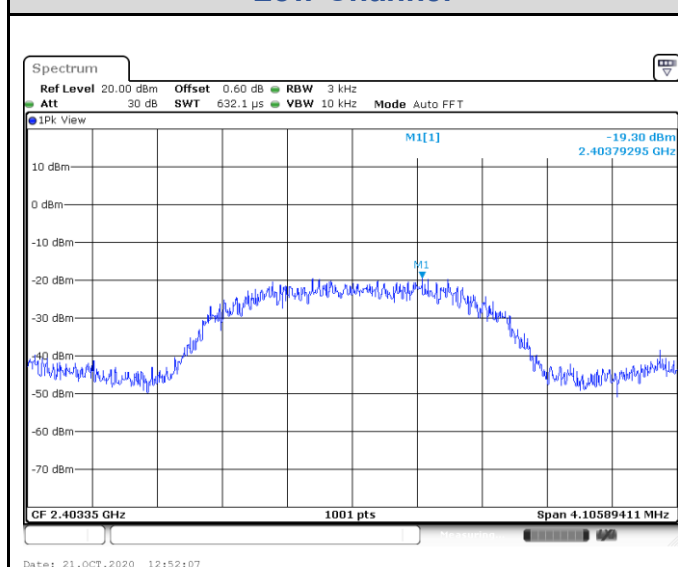
Low Channel
Middle Channel

High Channel


Test Result of Power Spectral Density

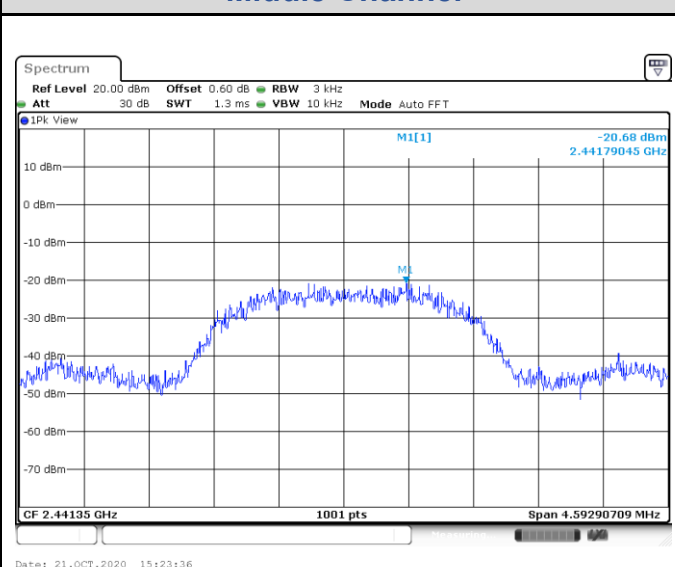
ANT 1

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2403.35	-19.30	8	Pass
Middle Channel	2441.35	-20.68	8	Pass
High Channel	2479.35	-22.82	8	Pass

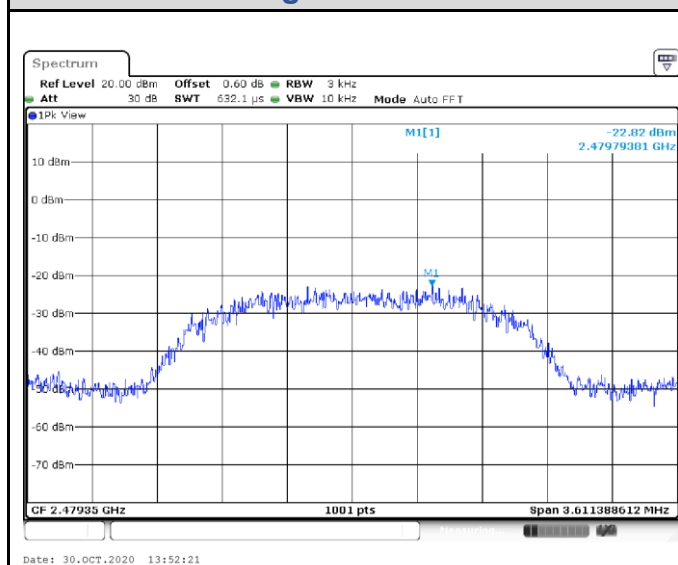
Low Channel



Middle Channel

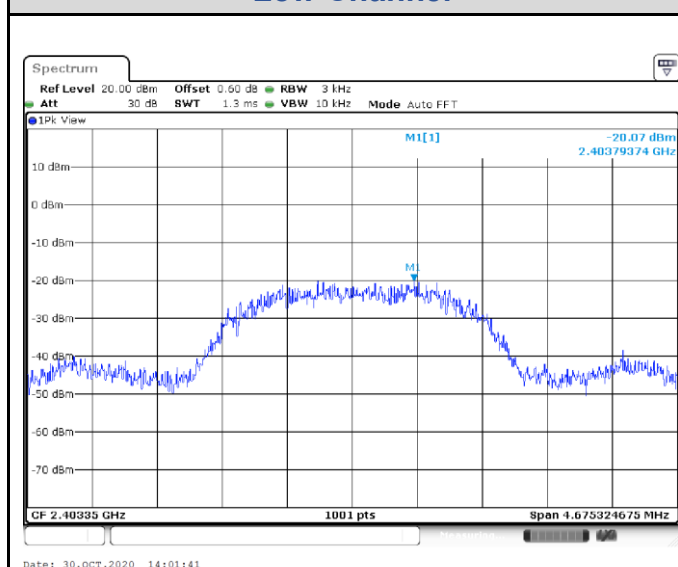
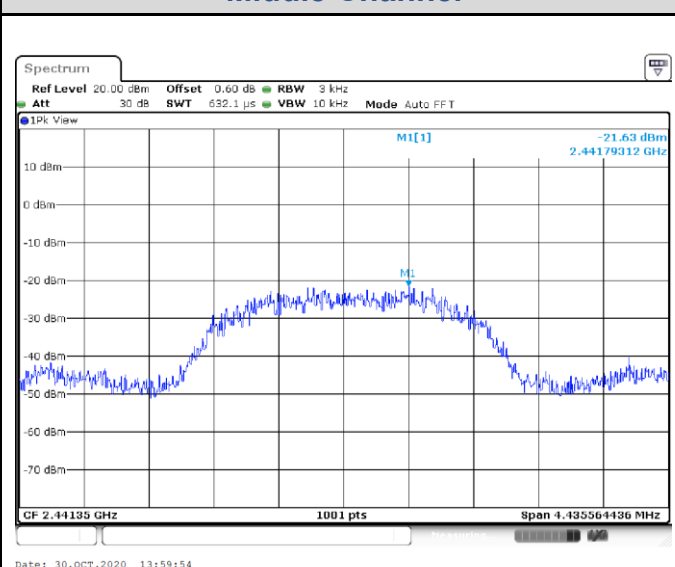
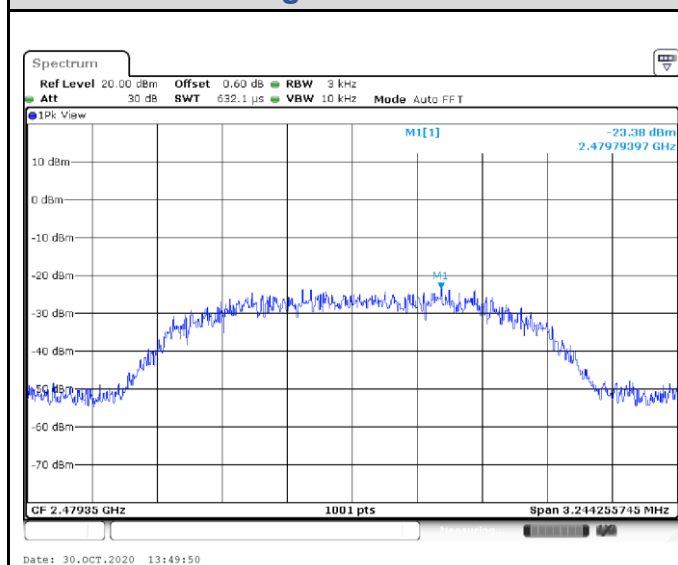


High Channel



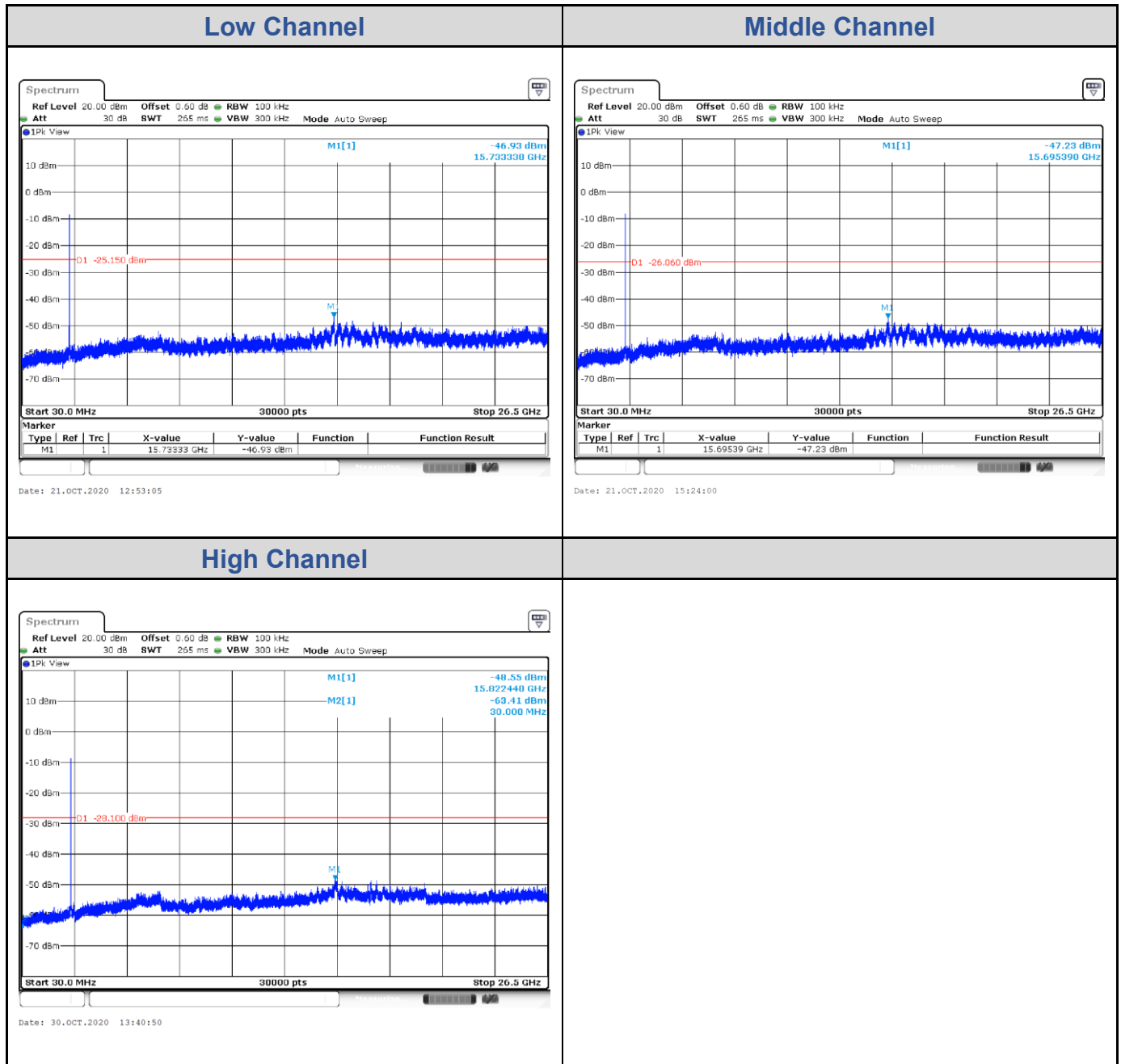
ANT 2

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2403.35	-20.07	8	Pass
Middle Channel	2441.35	-21.63	8	Pass
High Channel	2479.35	-23.38	8	Pass

Low Channel

Middle Channel

High Channel


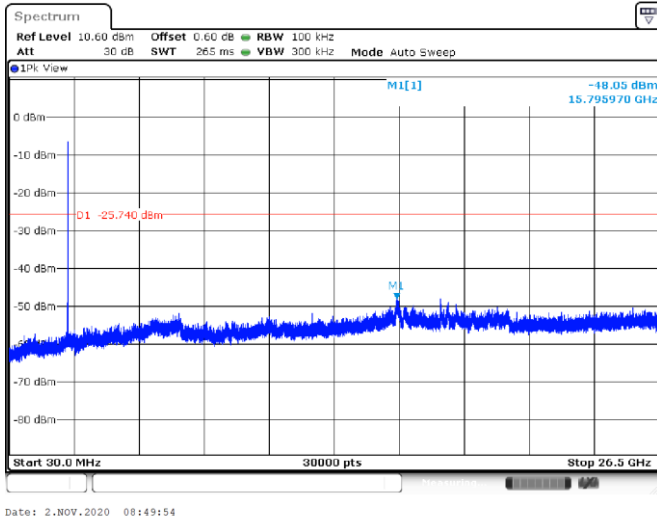
Test Result of Conducted Spurious Emissions, Tx Mode

ANT 1

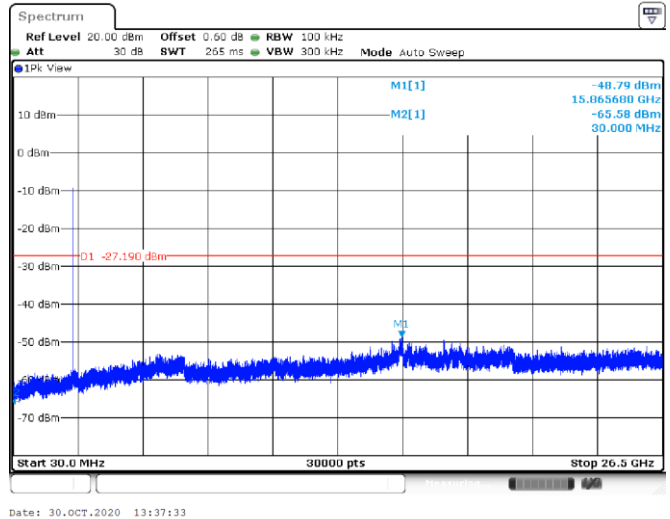


ANT 2

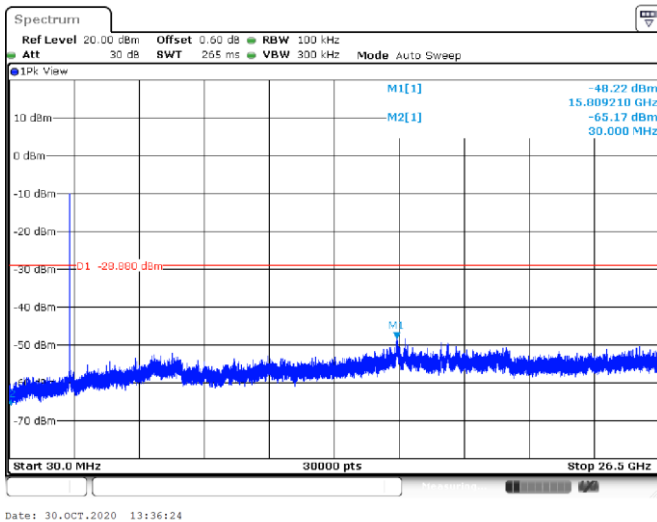
Low Channel



Middle Channel

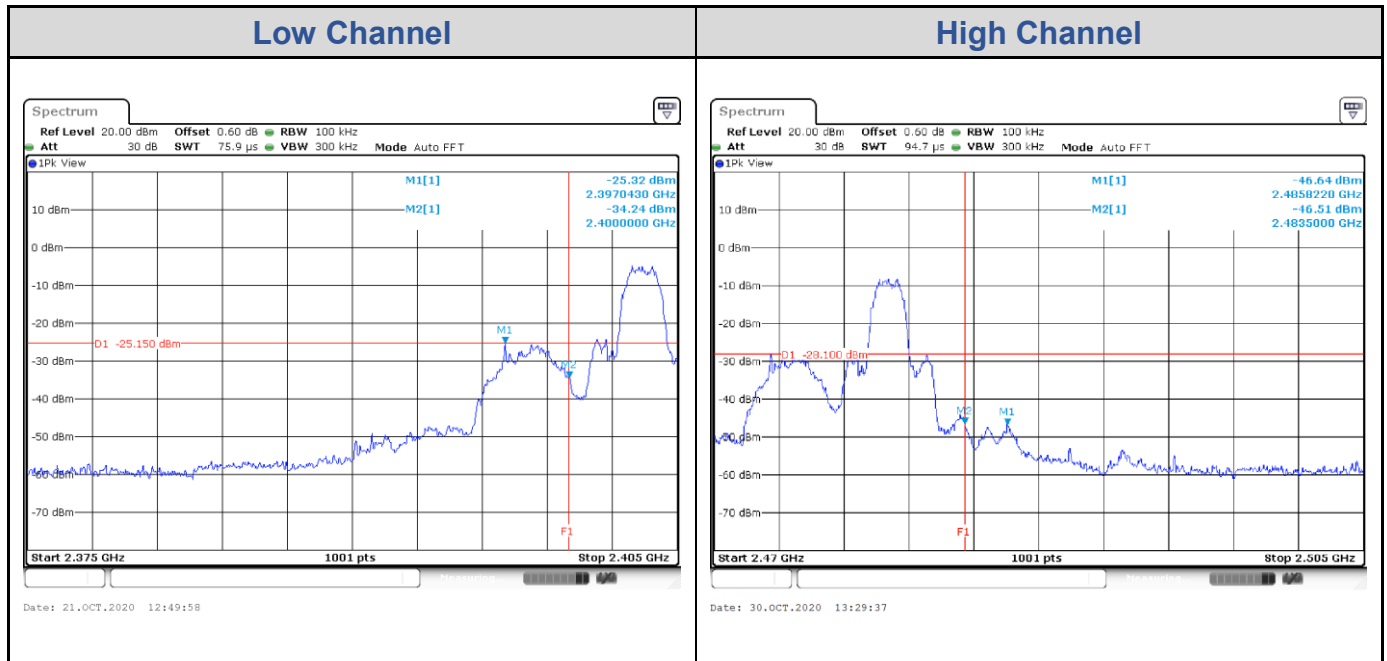


High Channel

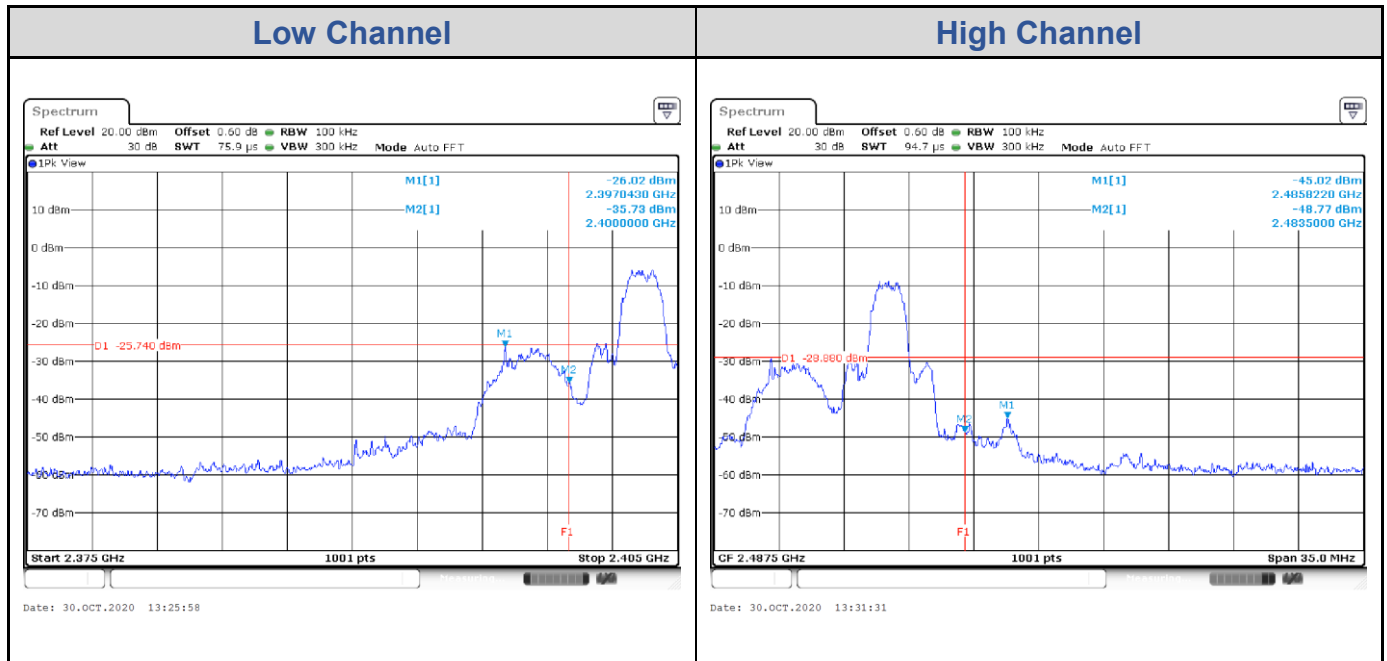


Test Result of Conducted Band Edge, Tx Mode

ANT 1



ANT 2



Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

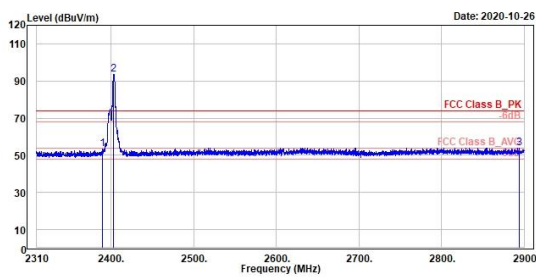
Band Edges, 2.31GHz ~ 2.9GHz

ANT 1

Low Channel (Horizontal) Peak



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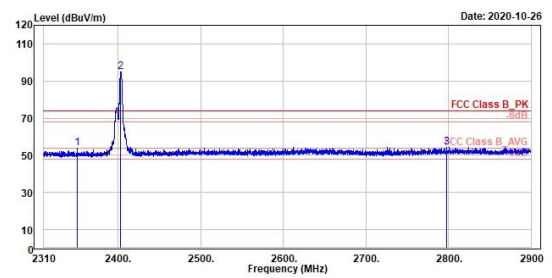


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.15	53.23	15.99	37.33	74.00	-20.77	192	70	Peak	Horizontal	
2 *	2403.35	93.73	56.35	37.38	74.00	19.73	192	70	Peak	Horizontal	
3	2894.35	54.01	15.72	38.29	74.00	-19.99	192	70	Peak	Horizontal	

Low Channel (Vertical) Peak



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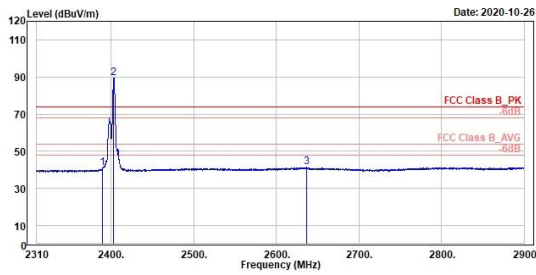
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2350.87	53.81	16.60	37.21	74.00	-20.19	274	99	Peak	Vertical	
2 *	2403.35	95.13	57.75	37.38	74.00	21.13	274	99	Peak	Vertical	
3	2798.00	54.47	16.56	37.91	74.00	-19.53	274	99	Peak	Vertical	

ANT 1

Low Channel (Horizontal) Average



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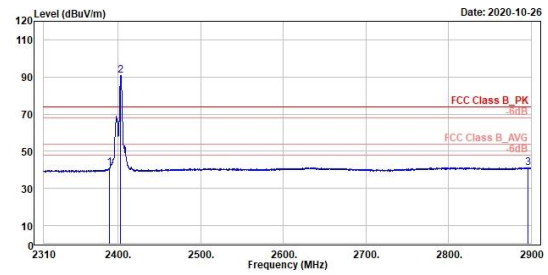


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.98	40.94	3.61	37.33	54.00	-13.06	182	70	Average	Horizontal		
2 *	2403.35	89.48	52.10	37.38	54.00	35.48	182	70	Average	Horizontal		
3	2636.63	41.33	3.45	37.88	54.00	-12.67	182	70	Average	Horizontal		

Low Channel (Vertical) Average



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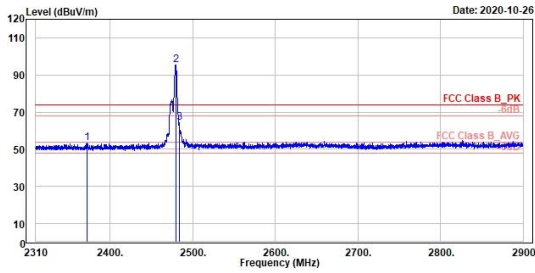
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.86	41.28	3.05	37.33	54.00	-12.72	274	99	Average	Vertical		
2 *	2403.35	90.94	53.56	37.38	54.00	36.94	274	99	Average	Vertical		
3	2896.58	41.27	2.96	38.31	54.00	-12.73	274	99	Average	Vertical		

ANT 1

High Channel (Horizontal) Peak



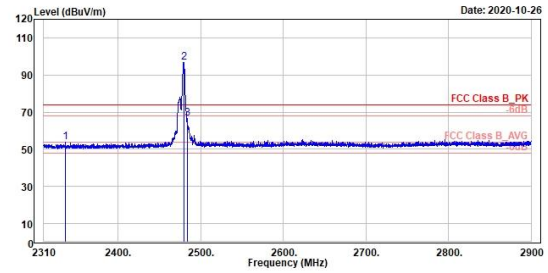
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2372.31	53.22	15.95	37.27	74.00	-20.78	189	67	Peak	Horizontal		
2 *	2479.35	95.58	58.82	37.56	74.00	21.58	189	67	Peak	Horizontal		
3	2483.58	64.38	26.82	37.56	74.00	-9.62	189	67	Peak	Horizontal		



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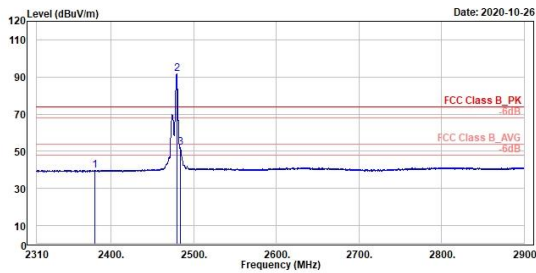
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2336.83	53.87	16.71	37.16	74.00	-20.13	261	95	Peak	Vertical		
2 *	2479.35	96.68	59.12	37.56	74.00	22.68	261	95	Peak	Vertical		
3	2483.58	66.73	29.17	37.56	74.00	-7.27	261	95	Peak	Vertical		

ANT 1

High Channel (Horizontal) Average



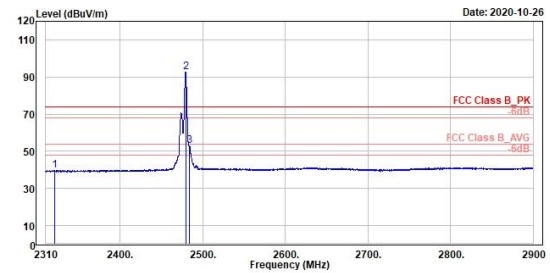
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2380.67	39.81	2.51	37.30	54.00	-14.19	189	67	Average	Vertical		
2 *	2479.35	91.52	53.96	37.56	54.00	37.52	189	67	Average	Vertical		
3 !	2483.58	52.10	14.54	37.56	54.00	-1.90	189	67	Average	Vertical		



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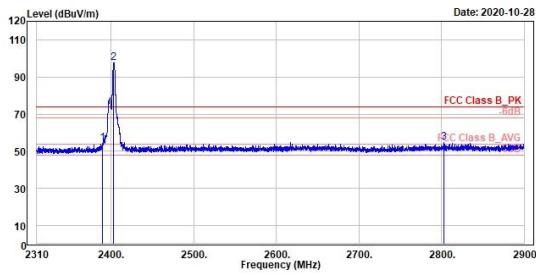
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2321.19	39.82	2.71	37.11	54.00	-14.18	261	95	Average	Vertical		
2 *	2479.35	92.58	55.82	37.56	54.00	38.58	261	95	Average	Vertical		
3 !	2483.62	53.10	15.54	37.56	54.00	-0.90	261	95	Average	Vertical		

ANT 2

Low Channel (Horizontal) Peak



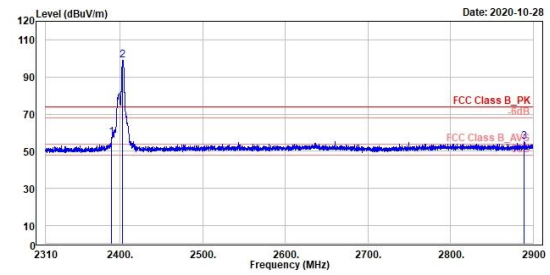
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.74	54.32	16.99	37.33	74.00	-19.68	135	70	Peak	Horizontal		
2 *	2403.35	97.53	60.15	37.38	74.00	23.53	135	70	Peak	Horizontal		
3	2882.94	54.72	16.80	37.92	74.00	-19.28	135	70	Peak	Horizontal		



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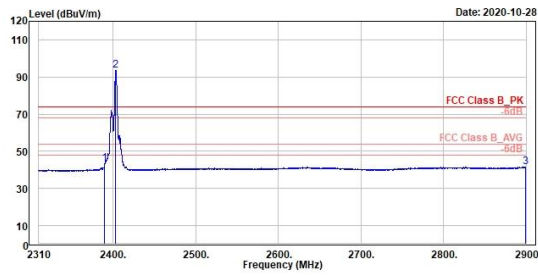
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.98	57.32	19.09	37.33	74.00	-16.68	281	99	Peak	Vertical		
2 *	2403.35	98.96	61.58	37.38	74.00	24.96	281	99	Peak	Vertical		
3	2889.40	55.26	16.99	38.27	74.00	-18.74	281	99	Peak	Vertical		

ANT 2

Low Channel (Horizontal) Average



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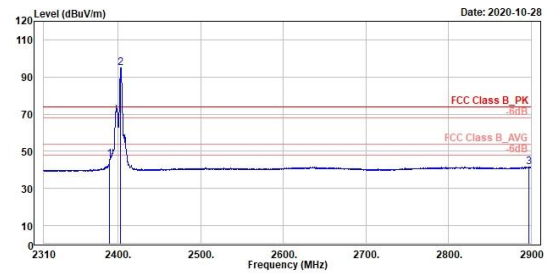


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.98	43.53	6.20	37.33	54.00	-10.47	135	70	Average	Horizontal		
2 *	2403.35	93.58	56.20	37.38	54.00	39.58	135	70	Average	Horizontal		
3	2899.53	41.58	3.26	38.32	54.00	-12.42	135	70	Average	Horizontal		

Low Channel (Vertical) Average



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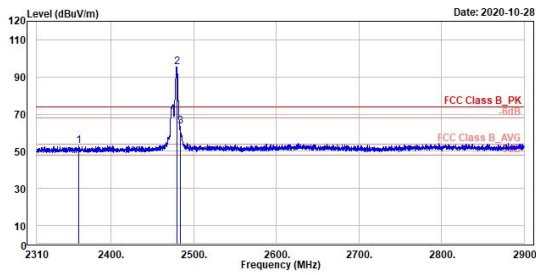
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.98	45.57	8.24	37.33	54.00	-8.43	281	99	Average	Vertical		
2 *	2403.35	94.97	57.59	37.38	54.00	40.97	281	99	Average	Vertical		
3	2897.17	41.67	3.36	38.31	54.00	-12.33	281	99	Average	Vertical		

ANT 2

High Channel (Horizontal) Peak



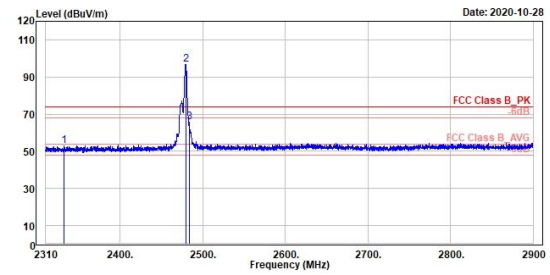
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2360.53	52.99	15.75	37.24	74.00	-21.01	154	68	Peak	Horizontal		
2 *	2479.35	95.38	57.62	37.56	74.00	21.38	154	68	Peak	Horizontal		
3	2483.50	63.38	25.62	37.56	74.00	-10.62	154	68	Peak	Horizontal		



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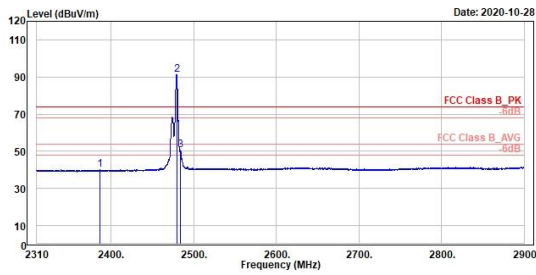
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2331.67	52.95	15.81	37.14	74.00	-21.05	288	102	Peak	Vertical		
2 *	2479.35	96.73	59.17	37.56	74.00	22.73	288	102	Peak	Vertical		
3	2483.50	65.48	27.92	37.56	74.00	-8.52	288	102	Peak	Vertical		

ANT 2

High Channel (Horizontal) Average



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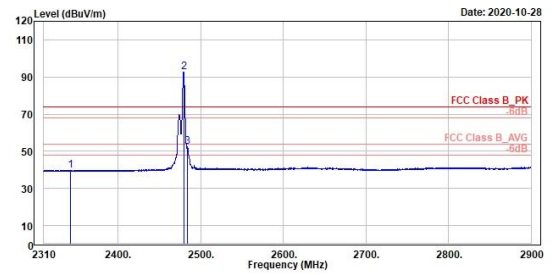


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2386.92	40.07	2.75	37.32	54.00	-13.93	154	68	Average	Horizontal		
2 *	2479.35	91.35	53.79	37.56	54.00	37.35	154	68	Average	Horizontal		
3 !	2483.62	50.62	13.06	37.56	54.00	-3.38	154	68	Average	Horizontal		

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2342.63	39.90	2.71	37.19	54.00	-14.10	288	102	Average	Vertical		
2 *	2479.35	92.71	55.15	37.56	54.00	38.71	288	102	Average	Vertical		
3 !	2483.50	52.32	14.76	37.56	54.00	-1.68	288	102	Average	Vertical		

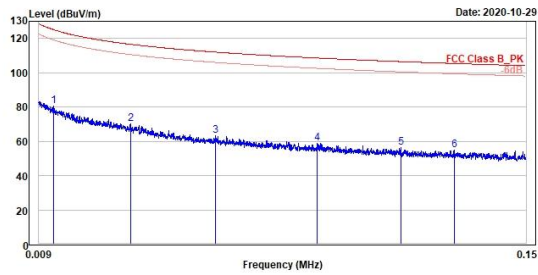
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

ANT 1

High Channel (Open) 9kHz~150kHz



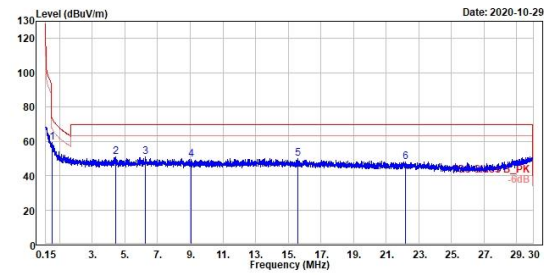
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	80.49	3.75	76.74	125.09	-44.60	100	306	QP	Open		
2	0.04	70.28	1.29	68.99	116.58	-46.30	100	337	QP	Open		
3	0.06	63.33	-0.31	63.64	112.01	-48.68	100	313	QP	Open		
4	0.09	58.85	-1.63	60.48	108.54	-49.69	100	0	QP	Open		
5	0.11	56.59	-1.86	58.45	106.47	-49.88	100	202	QP	Open		
6	0.13	54.69	-2.87	57.56	105.37	-50.68	100	35	QP	Open		



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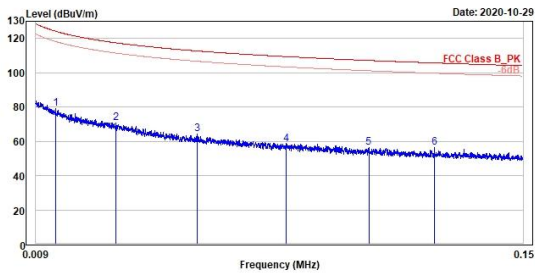
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.53	59.10	12.04	46.26	73.00	-13.98	100	143	QP	Open		
2	4.41	50.75	12.42	38.33	69.50	-18.75	100	316	QP	Open		
3	6.27	50.77	12.42	38.35	69.50	-18.73	100	350	QP	Open		
4	9.04	49.44	11.67	37.77	69.50	-20.06	100	360	QP	Open		
5	15.60	50.06	12.45	37.61	69.50	-19.44	100	361	QP	Open		
6	22.16	47.96	12.14	35.82	69.50	-21.54	100	179	QP	Open		

ANT 1

High Channel (Close) 9kHz~150kHz



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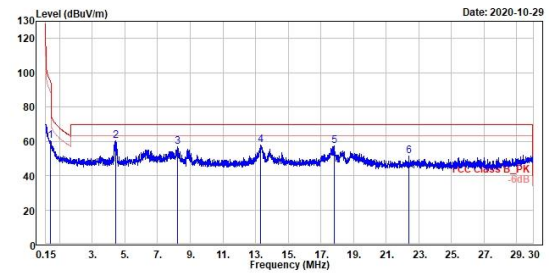


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	79.21	3.39	75.82	124.18	-44.97	100	224	QP	Close		
2	0.03	70.52	0.45	70.07	117.45	-46.93	100	209	QP	Close		
3	0.06	64.21	-0.05	64.26	112.69	-48.48	100	69	QP	Close		
4	0.08	58.56	-2.57	61.13	109.38	-50.82	100	82	QP	Close		
5	0.11	56.19	-2.75	58.94	107.14	-50.95	100	282	QP	Close		
6	0.12	56.19	-1.65	57.84	105.70	-49.51	100	19	QP	Close		

High Channel (Close) 150kHz~30MHz



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.42	60.21	12.14	48.07	95.17	-34.96	100	323	QP	Close		
2	4.41	60.32	21.99	38.33	69.50	-9.18	100	251	QP	Close		
3	8.24	56.61	18.61	38.00	69.50	-12.89	100	0	QP	Close		
4	13.33	57.68	20.20	37.48	69.50	-11.82	100	0	QP	Close		
5	17.82	57.20	20.30	36.90	69.50	-12.30	100	121	QP	Close		
6	22.30	51.57	15.81	35.76	69.50	-17.93	100	242	QP	Close		

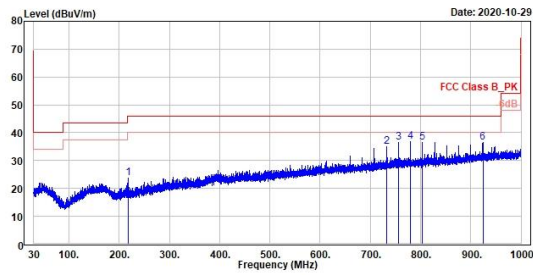
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

ANT 1

High Channel (Horizontal)



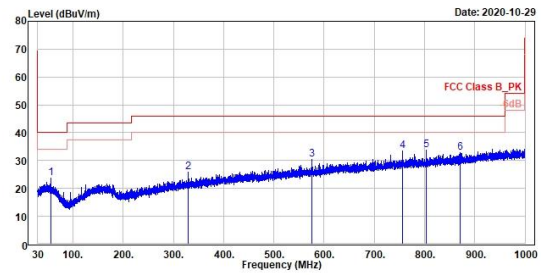
TÜV Rheinland Taiwan Ltd.
 No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	218.37	23.66	33.27	-9.61	46.00	-22.34	100	225	QP	Horizontal	
2	732.09	34.88	34.13	0.75	46.00	-11.12	100	198	QP	Horizontal	
3	756.05	36.63	35.39	1.24	46.00	-9.37	100	184	QP	Horizontal	
4	780.10	36.85	35.33	1.52	46.00	-9.15	100	52	QP	Horizontal	
5	804.06	36.54	34.77	1.77	46.00	-9.46	100	61	QP	Horizontal	
6	924.15	36.44	32.61	3.83	46.00	-9.56	100	359	QP	Horizontal	



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	56.09	23.68	31.43	-7.75	46.00	-16.32	300	308	QP	Vertical	
2	329.63	25.97	31.79	-5.82	46.00	-20.03	200	321	QP	Vertical	
3	576.01	30.52	32.28	-1.76	46.00	-15.48	100	360	QP	Vertical	
4	756.05	33.46	32.22	1.24	46.00	-12.54	200	69	QP	Vertical	
5	804.06	33.91	32.14	1.77	46.00	-12.09	200	117	QP	Vertical	
6	870.60	32.75	30.03	2.72	46.00	-13.25	200	142	QP	Vertical	

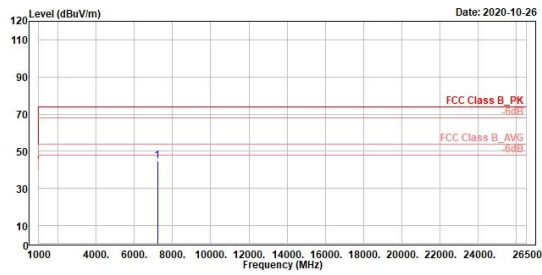
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

ANT 1

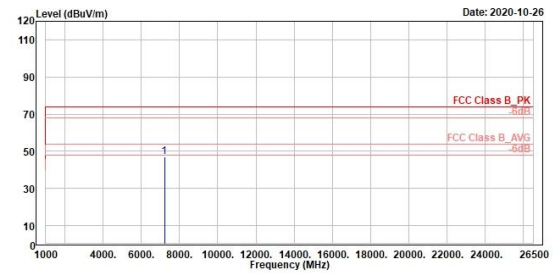
Low Channel (Horizontal)



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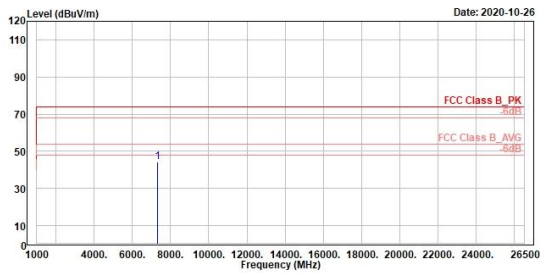


ANT 1

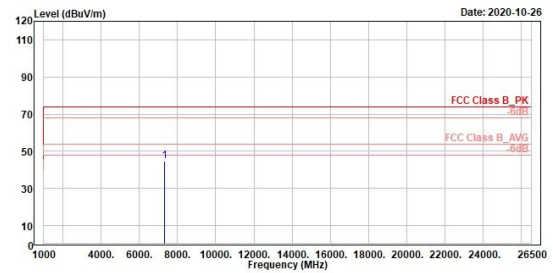
Middle Channel (Horizontal)



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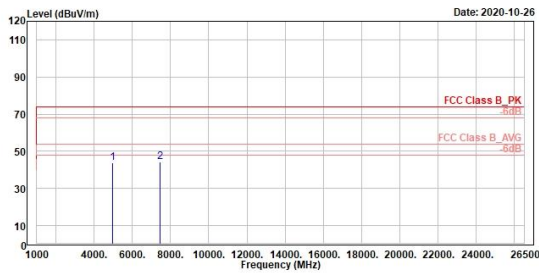


ANT 1

High Channel (Horizontal)



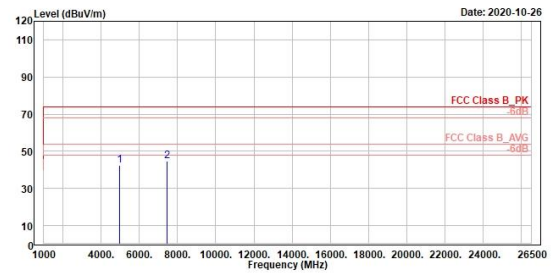
TÜV Rheinland Taiwan Ltd.
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High Channel (Vertical)



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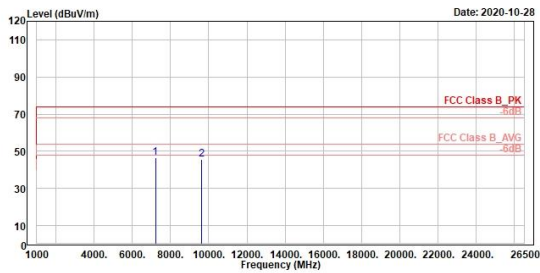


ANT 2

Low Channel (Horizontal)



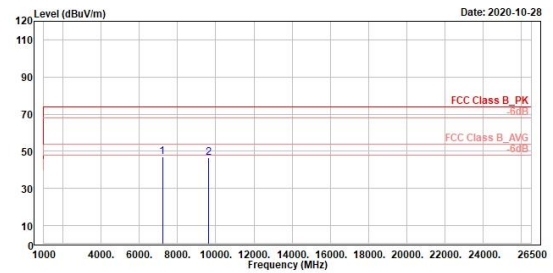
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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Low Channel (Vertical)



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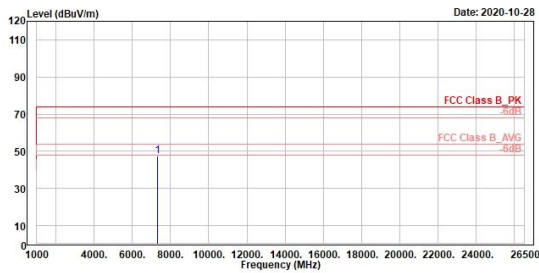


ANT 2

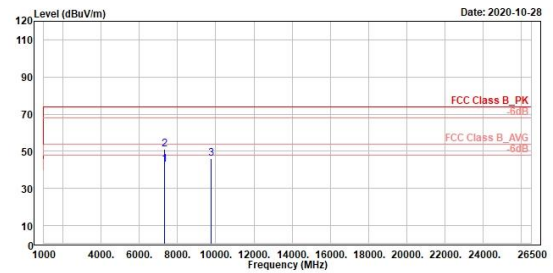
Middle Channel (Horizontal)



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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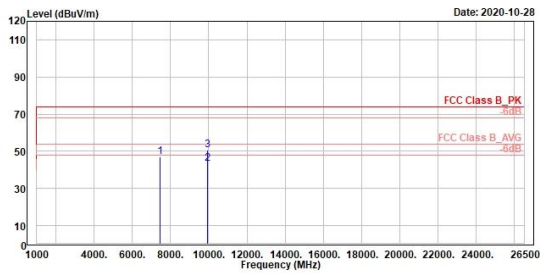


ANT 2

High Channel (Horizontal)



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No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

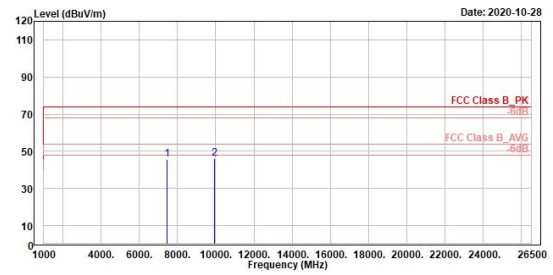


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7438.05	46.94	54.66	-7.72	74.00	-27.06	280	190	Peak	horizontal		
2	9917.40	43.26	47.95	-4.69	54.00	-10.74	480	116	Average	horizontal		
3	9917.40	50.58	55.27	-4.69	74.00	-23.42	480	116	Peak	horizontal		

High Channel (Vertical)



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7438.05	45.85	53.57	-7.72	74.00	-28.15	0	0	Peak	vertical		
2	9917.40	45.99	50.68	-4.69	74.00	-28.01	386	360	Peak	vertical		

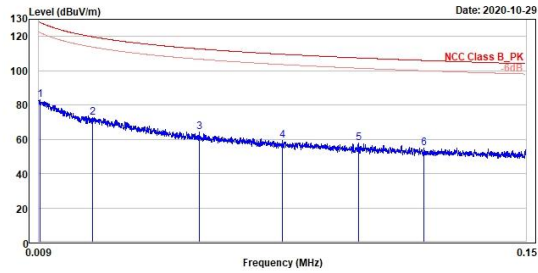
Spurious Emissions, Rx Mode, 9kHz ~ 30MHz

ANT 1

High Channel (Open) 9kHz~150kHz



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No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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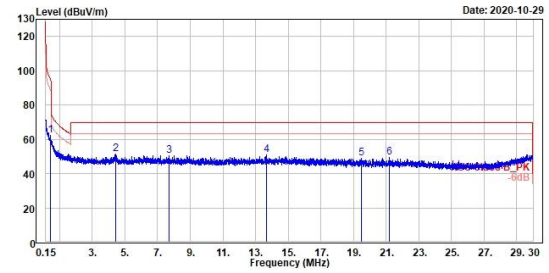


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.01	83.09	3.57	79.52	128.14	-45.05	100	110	QP	Open		
2	0.02	72.71	1.01	71.70	119.75	-47.04	100	198	QP	Open		
3	0.06	64.47	0.18	64.29	112.72	-48.25	100	178	QP	Open		
4	0.08	59.32	-1.99	61.31	109.59	-50.27	100	214	QP	Open		
5	0.10	57.79	-1.37	59.16	107.47	-49.68	100	205	QP	Open		
6	0.12	54.66	-3.40	58.06	105.98	-51.32	100	52	QP	Open		

Middle/High Channel (Open) 150kHz~30MHz



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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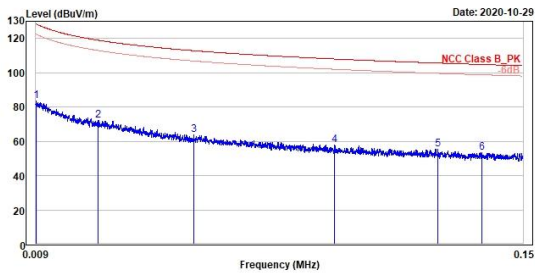
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.43	62.39	14.51	47.88	94.92	-32.53	100	1	QP	Open		
2	4.41	51.58	13.25	38.33	69.50	-17.92	100	60	QP	Open		
3	7.69	50.38	12.22	38.16	69.50	-19.12	100	350	QP	Open		
4	13.65	50.95	13.41	37.54	69.50	-19.55	100	285	QP	Open		
5	19.50	48.88	12.53	36.35	69.50	-20.62	100	235	QP	Open		
6	21.21	49.30	13.27	36.03	69.50	-20.20	100	95	QP	Open		

ANT 1

High Channel (Close) 9kHz~150kHz



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No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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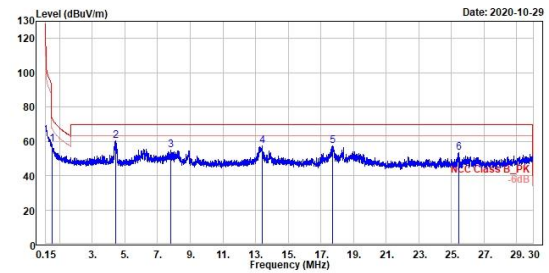


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	83.61	3.79	79.82	128.39	-44.78	100	100	QP	Close		
2	0.03	71.97	0.71	71.26	118.92	-46.95	100	249	QP	Close		
3	0.05	63.60	-0.78	64.38	112.83	-49.23	100	131	QP	Close		
4	0.10	58.01	-1.78	59.79	107.99	-49.98	100	10	QP	Close		
5	0.13	55.56	-2.22	57.78	105.63	-50.07	100	147	QP	Close		
6	0.14	53.62	-3.42	57.04	104.00	-51.10	100	7	QP	Close		

High Channel (Close) 150kHz~30MHz



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.54	58.24	12.13	46.11	72.94	-14.70	100	65	QP	Close		
2	4.41	60.40	22.07	38.33	69.50	-9.10	100	184	QP	Close		
3	7.82	54.97	16.85	38.12	69.50	-14.53	100	23	QP	Close		
4	13.40	57.10	19.61	37.49	69.50	-12.40	100	264	QP	Close		
5	17.71	57.15	20.22	36.93	69.50	-12.35	100	195	QP	Close		
6	25.45	53.60	19.48	34.12	69.50	-15.90	100	245	QP	Close		

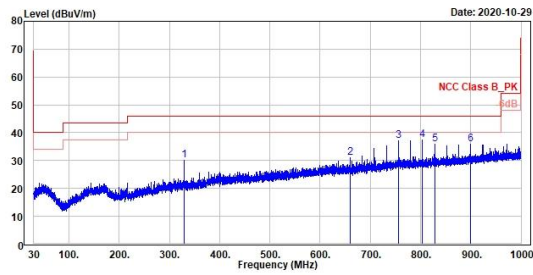
Spurious Emissions, Rx Mode, 30MHz ~ 1GHz

ANT 1

High Channel (Horizontal)



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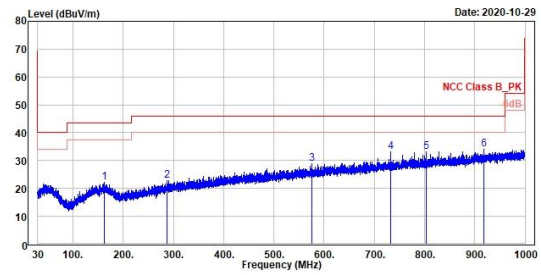


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	329.34	30.21	36.04	-5.83	46.00	-15.79	200	169	QP	horizontal	
2	669.11	30.91	31.48	-0.57	46.00	-15.09	128	368	QP	horizontal	
3	756.05	36.97	35.73	1.24	46.00	-9.03	100	187	QP	horizontal	
4	804.06	37.54	35.77	1.77	46.00	-8.46	100	61	QP	horizontal	
5	828.12	35.77	33.54	2.23	46.00	-10.23	100	70	QP	horizontal	
6	908.09	35.84	32.59	3.25	46.00	-10.16	100	347	QP	horizontal	

High Channel (Vertical)



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	162.50	22.09	29.44	-7.35	43.50	-21.41	200	321	QP	vertical	
2	285.02	22.77	29.52	-6.75	46.00	-23.23	200	62	QP	vertical	
3	576.01	28.93	30.69	-1.76	46.00	-17.07	100	360	QP	vertical	
4	732.09	33.25	32.50	0.75	46.00	-12.75	200	92	QP	vertical	
5	804.06	33.17	31.40	1.77	46.00	-12.83	200	134	QP	vertical	
6	917.94	33.92	30.24	3.68	46.00	-12.08	200	301	QP	vertical	

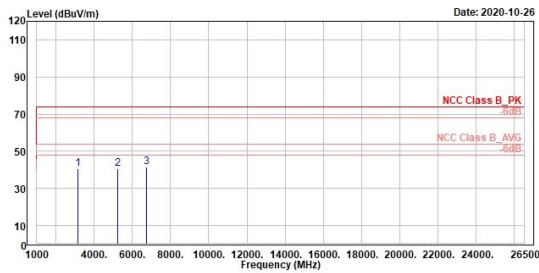
Spurious Emissions, Rx Mode, 1GHz ~ 26.5GHz

ANT 1

High Channel (Horizontal)



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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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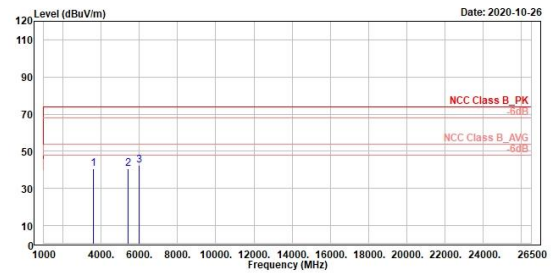


Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3162.00	40.77	53.25	-12.48	74.00	-33.23	180	328 Peak	horizontal	
2	5246.00	40.64	49.61	-8.97	74.00	-33.36	270	8 Peak	horizontal	
3	6733.00	41.43	49.35	-7.92	74.00	-32.57	180	208 Peak	horizontal	

High Channel (Vertical)



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Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3587.00	40.77	52.00	-12.13	74.00	-33.23	300	58 Peak	vertical	
2	5413.00	40.72	49.55	-8.83	74.00	-33.28	300	288 Peak	vertical	
3	5996.00	42.55	50.68	-8.13	74.00	-31.45	180	291 Peak	vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

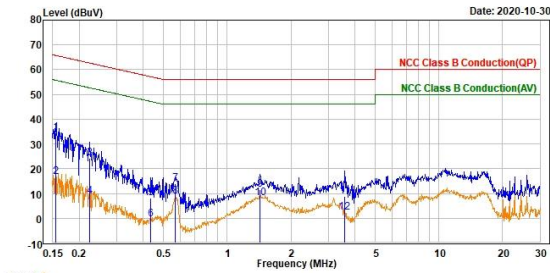
Worst Band

(Line)

(Neutral)



TUV Rheinland Taiwan Ltd(New Taipei City Branch),
 No. 458-19, Sec. 2, Fenliao Rd., Linkou Dist., New Taipei City 244
 Tel: +886-2172-1000 Fax: +886-2172-1322

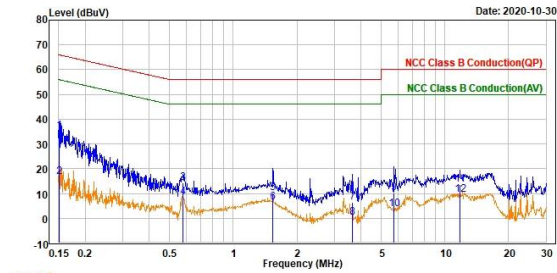


Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.155	34.60	0.05	34.65	65.75	-31.10	QP	line1	
2	0.155	16.51	0.05	16.56	55.75	-39.19	Average	line1	
3	0.223	24.21	0.05	24.26	62.69	-38.43	QP	line1	
4	0.223	8.78	0.05	8.83	52.69	-43.86	Average	line1	
5	0.436	8.06	0.06	8.12	57.14	-49.02	QP	line1	
6	0.436	-0.44	0.06	-0.38	47.14	-47.52	Average	line1	
7	0.570	14.04	0.06	14.10	56.00	-41.90	QP	line1	
8	0.570	8.67	0.06	8.73	46.00	-37.27	Average	line1	
9	1.427	11.35	0.09	11.44	56.00	-44.56	QP	line1	
10	1.427	7.88	0.09	7.97	46.00	-38.03	Average	line1	
11	3.571	8.73	0.15	8.88	56.00	-47.12	QP	line1	
12	3.571	2.22	0.15	2.37	46.00	-43.63	Average	line1	



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Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.151	35.19	0.05	35.24	65.96	-30.72	QP	neutral	
2	0.151	16.72	0.05	16.77	55.96	-39.19	Average	neutral	
3	0.579	14.40	0.06	14.46	56.00	-41.54	QP	neutral	
4	0.579	8.53	0.06	8.59	46.00	-37.41	Average	neutral	
5	1.538	10.16	0.10	10.26	56.00	-45.74	QP	neutral	
6	1.538	6.34	0.10	6.44	46.00	-39.56	Average	neutral	
7	3.661	6.25	0.14	6.39	56.00	-49.61	QP	neutral	
8	3.661	0.14	0.14	0.28	46.00	-45.72	Average	neutral	
9	5.763	10.04	0.20	10.24	60.00	-49.76	QP	neutral	
10	5.763	3.34	0.20	3.54	50.00	-46.46	Average	neutral	
11	11.753	13.36	0.34	13.70	60.00	-46.30	QP	neutral	
12	11.753	9.09	0.34	9.43	50.00	-40.57	Average	neutral	