

Prüfbericht-Nr.: Test report no.:	CN21I0KF(LP0002-SRD) 001	Auftrags-Nr.: Order no.:	238495752	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2020-12-29	
Auftraggeber: Client:	華碩電腦股份有限公司 臺北市北投區立德路 15 號 1 樓			
Prüfgegenstand: Test item:	Active Stylus SA202H			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Active Stylus SA202H			
Auftrags-Inhalt: Order content:	NCC LP0002 Test Report (SRD)			
Prüfgrundlage: Test specification:	NCC Low-power Radio-frequency Devices Technology Regulations LP0002 (2020)			
Wareneingangsdatum: Date of sample receipt:	2020-12-11			
Prüfmuster-Nr.: Test sample no.:	A002967357-006			
Prüfzeitraum: Testing period:	2020-12-31			
Ort der Prüfung: Place of testing:	EMC/RF Taipei Testing Site			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: reviewed by:			genehmigt von: authorized by:	
Datum: Date:	2021-01-05		Ausstellungsdatum: Issue date:	2021-01-05
Stellung / Position:	Mars Lin Senior Project Engineer		Stellung / Position:	Brenda Chen Senior Project Manager
Sonstiges / Other:				
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
5 = mangelhaft N/T = nicht getestet				
5 = poor N/T = not tested				
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.				

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TEST SUMMARY

Report Section	NCC Clause	Test Item	Result
5.1.1	LP0002 3.2	Antenna Requirement	Pass
5.1.2	LP0002 3.6	Radiated Spurious Emissions	Pass
-	LP0002 3.3	Mains Conducted Emission	Not Applicable

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

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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN21I0KF(LP0002-SRD) 001	Original Release	2021-01-05

1. General Remarks

1.1 Complementary Materials

The following attachments are integral parts of this test report:

Appendix A - Test Result of Radiated Spurious Emissions
Appendix SP - Photographs of Test Setup
Appendix EP - Photographs of EUT

Test Specifications

The following standards were applied.

Applied Standard and Test Levels

Radio
NCC Low-power Radio-frequency Devices Technical Regulations LP0002 (2020) (109 年 7 月 1 日) ANSI C63.10:2013

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)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is an Active Stylus SA202H Pen. It contains an 18-44kHz, 160-210kHz compatible module that can be used to operate a touch-sensitive computer screen.

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	Active Stylus SA202H
Type Identification	Active Stylus SA202H
Brand Name	ASUS

Technical Specification of EUT

Item	EUT information
Operating Frequency	18-44kHz, 160-210kHz
Operation Voltage	5Vdc
Modulation	DPSK
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 equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: The EUT will continuously transmit Tx signal after the EUT connect the tablet. When the EUT is taken away from the tablet, it will receive Rx signal continuously.

Test Software	None.
---------------	-------

The samples were used as follows:
A002967357-006 for radiated

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

EUT Configure Mode	Applicable To		Description
	Radiated Spurious Emissions	Mains Conducted Emission	
-	√	-	-

Note: "-" means no effect.

Radiated Spurious Emissions

- ☒ 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 (kHz)	Tested Frequency (kHz)
	Tx / Rx	
-	18-44	18-44
-	160-210	160-210

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	18~20 °C	68~70 %	Eagle Tsai

4.3 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

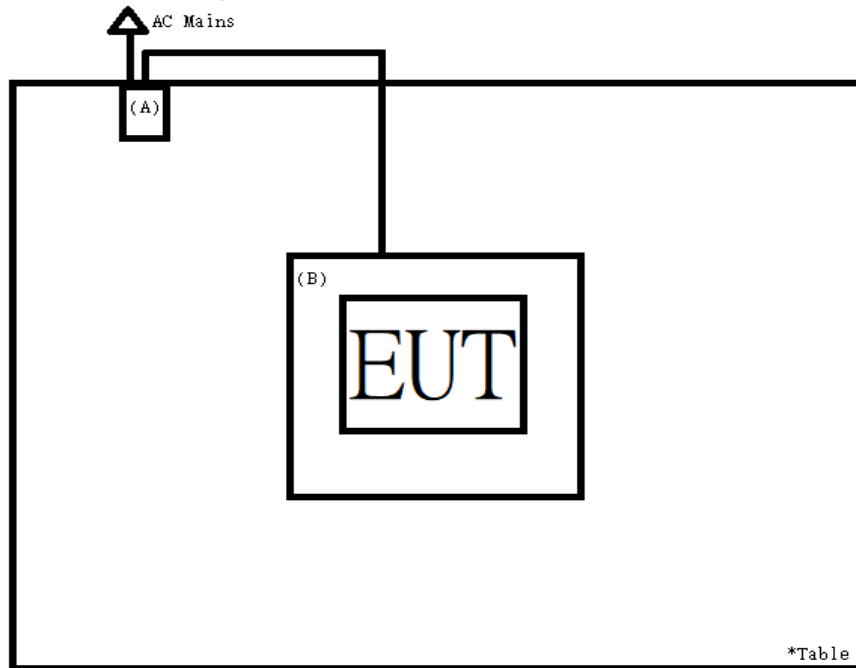
No.	Product	Brand	Model	Description
-	Supercapacitor	JINZHOU KAIMEI POWER CO., LTD	HP-2R7-J105VYJ82	-

Support Unit

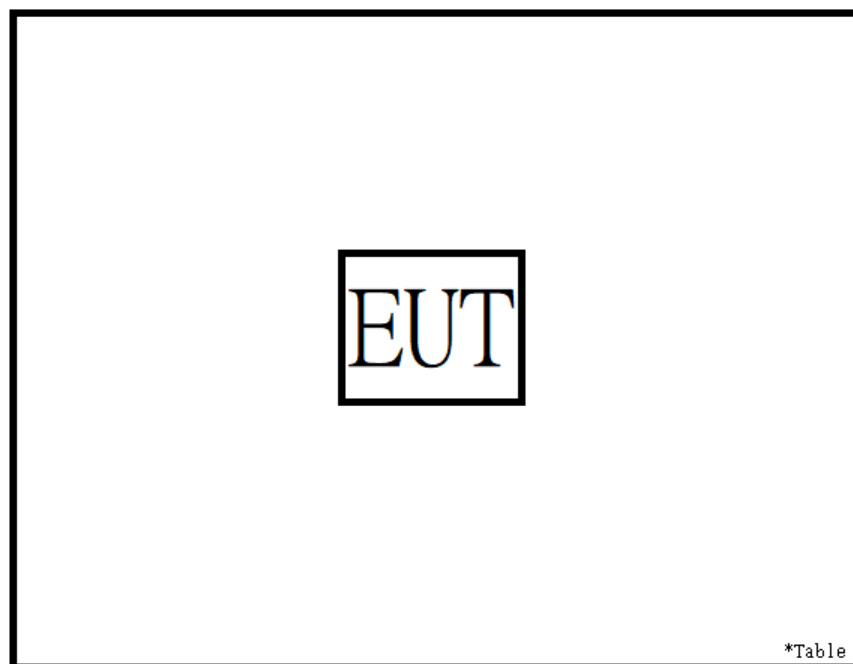
Radiated Test				
No.	Description	Brand	Model	Remark
A	Adapter	Microsoft	1800	170 cm shielded cable w/o core
B	Notebook	Microsoft	MLPN16U	-

4.4 Test Setup Diagram

<Radiated Spurious Emissions, Tx Mode>



<Radiated Spurious Emissions, Rx 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
Active Stylus	MPP116	Coils Antenna

Refer to EUT photo for details.

5.1.2 Radiated Spurious Emissions

Limit

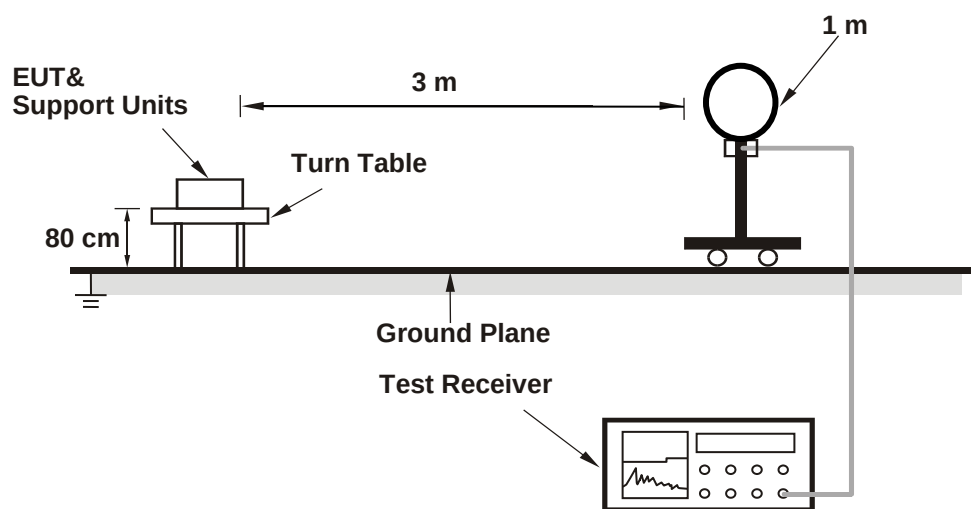
Radiated emissions must comply with the radiated emission limits specified in LP0002 (2020): 3.6.

Kind of Test Site

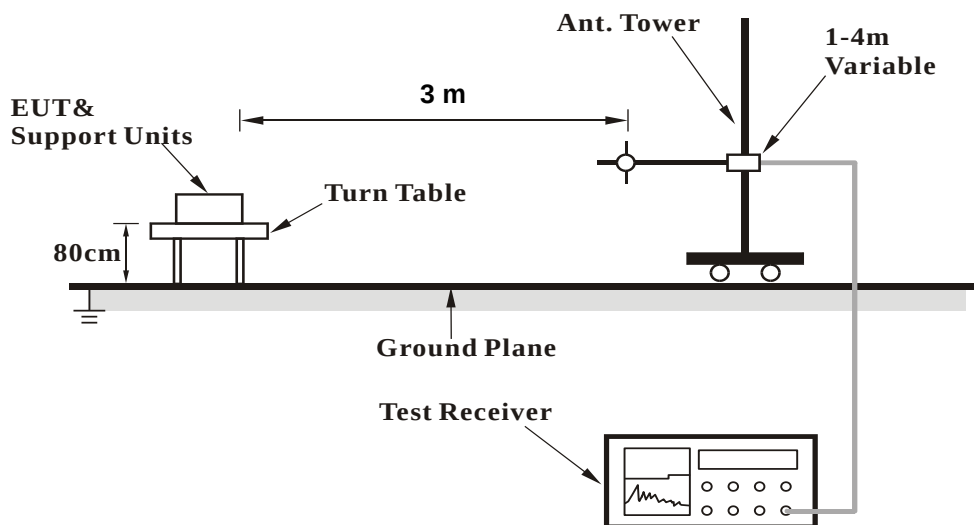
3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



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

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Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Receiver	R&S	ESR7	102109	2020/3/30	2021/3/29
Bilog Antenna	SCHWARZBECK	VULB-9168	00950	2020/1/20	2021/1/18
LF-AMP	Agilent	8447D	2727A05146	2020/2/17	2021/2/15
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800057/4EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2020/4/22	2021/4/21
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2020/1/9	2021/1/7

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:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

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. All modes of operation were investigated and the worst-case emissions are reported.
3. 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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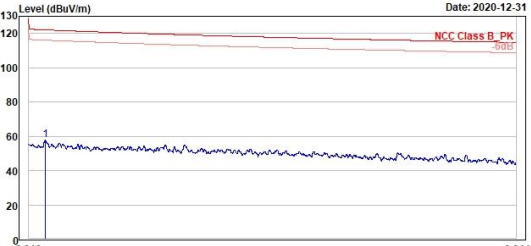
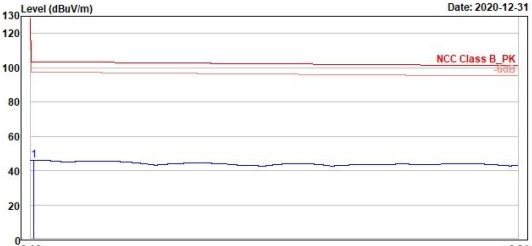
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Test Results $\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)}$ $\text{Level (dBuV/m)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$

Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions

Band Edges

SRD																																																																																															
18kHz~44kHz						160kHz~210kHz																																																																																									
 TÜVRheinland TUV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322						 TÜVRheinland TUV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322																																																																																									
Level (dBuV/m) Date: 2020-12-31  <table><tr><th></th><th>Freq</th><th>Level</th><th>Read</th><th>Level</th><th>Factor</th><th>Limit</th><th>Over</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th><th></th></tr><tr><td>1</td><td>0.01888</td><td>57.62</td><td>-15.63</td><td>73.25</td><td>122.07</td><td>-64.45</td><td>100</td><td>160</td><td>Peak</td><td>Open</td><td></td><td></td></tr></table>													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	0.01888	57.62	-15.63	73.25	122.07	-64.45	100	160	Peak	Open			Level (dBuV/m) Date: 2020-12-31  <table><tr><th></th><th>Freq</th><th>Level</th><th>Read</th><th>Level</th><th>Factor</th><th>Limit</th><th>Over</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th><th></th></tr><tr><td>1</td><td>0.16027</td><td>46.13</td><td>-9.62</td><td>55.75</td><td>103.50</td><td>-57.37</td><td>100</td><td>176</td><td>Peak</td><td>Open</td><td></td><td></td></tr></table>							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	0.16027	46.13	-9.62	55.75	103.50	-57.37	100	176	Peak	Open		
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$$2400/(\text{Main Frequency})=2400/18.88=127.1186\mu\text{V/m}$$

$$20\log(\mu\text{V/m})=\text{dBuV/m}=42.0841\text{dBuV/m}$$

$$40\log(300/3)=80$$

$$\text{Limit}=42.0841+80=122.0841$$

頻率(f) (MHz)	電場強度 (微伏特/公尺, $\mu\text{V/m}$)	測距 (公尺)
$0.009 \leq f \leq 0.490$	$2400/f(\text{kHz})$	300
$0.490 < f \leq 1.705$	$24000/f(\text{kHz})$	30
$1.705 < f < 30$	30	30
$30 \leq f \leq 88$	100	3
$88 < f \leq 216$	150	3
$216 < f \leq 960$	200	3
$960 < f$	500	3

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

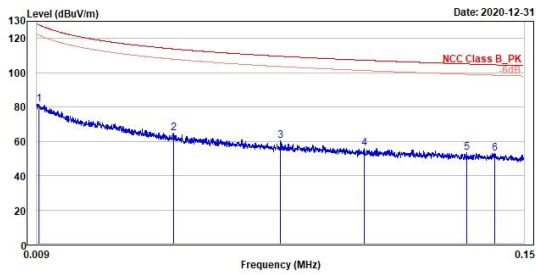
SRD

9kHz~150kHz

150kHz~30MHz



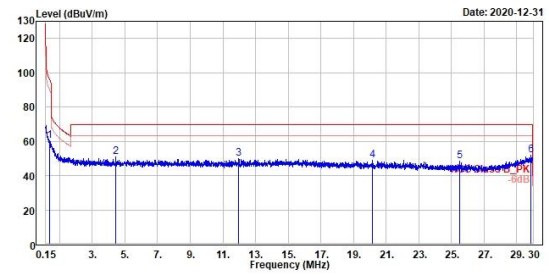
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	81.70	2.35	79.35	128.00	-46.30	100	73	QP	Open		
2	0.05	64.89	-0.53	65.42	113.88	-48.99	100	291	QP	Open		
3	0.08	60.09	-1.21	61.30	109.58	-49.49	100	111	QP	Open		
4	0.10	55.94	-3.09	59.03	107.27	-51.33	100	61	QP	Open		
5	0.13	53.45	-3.86	57.31	105.09	-51.64	100	189	QP	Open		
6	0.14	52.91	-3.92	56.83	104.57	-51.66	100	0	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	0.41	60.16	11.01	48.25	95.42	-35.26	100	170	QP	Open		
2	4.43	50.73	12.39	38.34	69.50	-18.77	100	133	QP	Open		
3	11.98	49.77	12.47	37.30	69.50	-19.73	100	80	QP	Open		
4	20.15	48.92	12.69	36.23	69.50	-20.58	100	117	QP	Open		
5	25.50	48.60	14.46	34.14	69.50	-20.90	100	360	QP	Open		
6	29.85	51.96	12.53	39.43	69.50	-17.54	100	360	QP	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

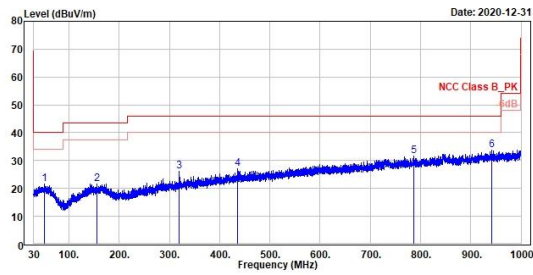
SRD

(Horizontal)

(Vertical)



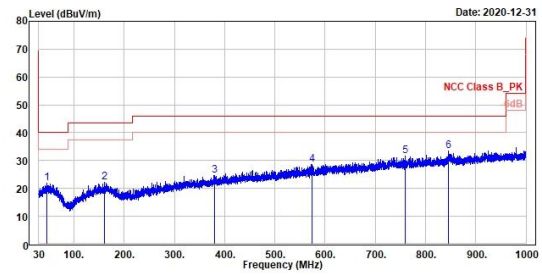
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	50.37	21.45	27.49	-6.04	40.00	-18.55	300	124	QP	horizontal	
2	154.94	21.70	27.89	-6.19	43.50	-21.80	100	360	QP	horizontal	
3	320.03	26.13	30.47	-4.34	46.00	-19.87	100	360	QP	horizontal	
4	435.36	27.09	29.53	-2.44	46.00	-18.91	300	261	QP	horizontal	
5	786.89	31.77	29.10	2.67	46.00	-14.23	300	42	QP	horizontal	
6	942.46	33.67	28.78	4.89	46.00	-12.33	100	100	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	46.49	21.80	27.88	-6.08	40.00	-18.20	100	203	QP	vertical	
2	160.08	22.05	28.04	-5.99	43.50	-21.45	100	198	QP	vertical	
3	380.46	24.64	28.12	-3.48	46.00	-21.36	300	38	QP	vertical	
4	573.88	28.70	29.19	-0.49	46.00	-17.30	164	360	QP	vertical	
5	759.63	31.48	29.06	2.42	46.00	-14.52	300	351	QP	vertical	
6	846.26	33.46	30.02	3.44	46.00	-12.54	200	44	QP	vertical	

Spurious Emissions, Rx Mode, 9kHz ~ 30MHz

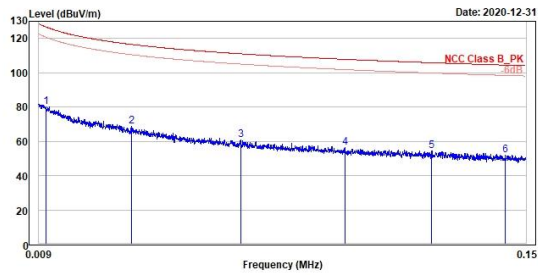
SRD

9kHz~150kHz

150kHz~30MHz



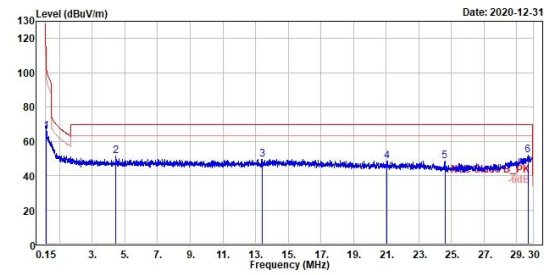
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	80.27	2.08	78.19	126.73	-46.46	100	310	QP	Open		
2	0.04	68.64	-0.26	68.90	116.52	-47.88	100	170	QP	Open		
3	0.07	60.57	-2.12	62.69	111.02	-50.45	100	96	QP	Open		
4	0.10	56.52	-3.02	59.54	107.81	-51.29	100	244	QP	Open		
5	0.12	54.35	-3.58	57.93	105.82	-51.47	100	359	QP	Open		
6	0.14	52.07	-4.63	56.70	104.43	-52.36	100	53	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	0.19	65.98	12.05	53.93	101.94	-35.96	100	330	QP	Open		
2	4.43	51.65	13.31	38.34	69.50	-17.85	100	0	QP	Open		
3	13.39	49.45	11.96	37.49	69.50	-20.05	100	25	QP	Open		
4	21.07	48.58	12.53	36.05	69.50	-20.92	100	344	QP	Open		
5	24.60	48.46	14.11	34.35	69.50	-21.04	100	276	QP	Open		
6	29.69	51.80	12.79	39.01	69.50	-17.70	100	124	QP	Open		

Spurious Emissions, Rx Mode, 30MHz ~ 1GHz

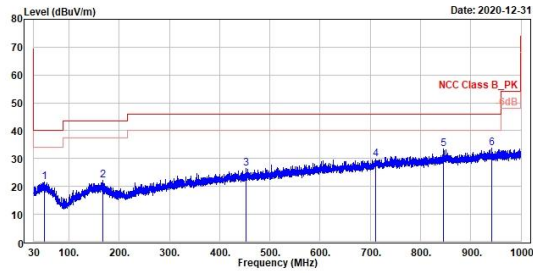
SRD

(Horizontal)

(Vertical)



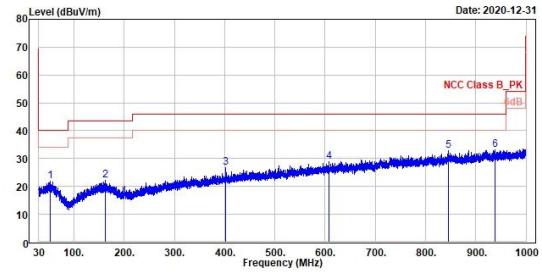
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	50.76	21.69	27.72	-6.03	40.00	-18.31	100	134	QP	horizontal	
2	167.16	22.17	28.12	-5.95	43.50	-21.33	166	360	QP	horizontal	
3	452.92	26.47	28.68	-2.21	46.00	-19.53	200	0	QP	horizontal	
4	711.33	29.73	28.28	1.45	46.00	-16.27	300	232	QP	horizontal	
5	844.99	33.59	30.16	3.43	46.00	-12.41	200	355	QP	horizontal	
6	941.12	33.73	28.86	4.87	46.00	-12.27	200	360	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	53.57	21.77	27.09	-6.12	40.00	-18.23	400	136	QP	vertical	
2	162.70	22.12	28.04	-5.92	43.50	-21.38	100	258	QP	vertical	
3	401.41	26.73	29.89	-3.16	46.00	-19.27	200	205	QP	vertical	
4	608.12	28.84	28.54	0.30	46.00	-17.16	200	324	QP	vertical	
5	845.09	32.84	29.41	3.43	46.00	-13.16	100	162	QP	vertical	
6	939.00	33.10	28.27	4.83	46.00	-12.90	200	244	QP	vertical	