Prüfbericht-Nr.: *Test report no.:*	CN2245H1 (P15C-24GHz) 001	**Auftrags-Nr.:** *Order no.*:	238523230	
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2021-12-03	
Auftraggeber: *Client:*	SZ DJI TECHNOLOGY CO.,LTD. 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China			
Prüfgegenstand: *Test item:*	TF&RV Radar			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	RD2484B			
Auftrags-Inhalt: *Order content*:	FCC Part 15C Test report			
Prüfgrundlage: *Test specification:*	FCC 47CFR Part 15: Subpart C Section 15.249			

Wareneingangsdatum: *Date of sample receipt:*	2021-12-27
Prüfmuster-Nr.: *Test sample no:*	A003190968-001
Prüfzeitraum: *Testing period:*	2022-01-02 - 2022-01-21
Ort der Prüfung: *Place of testing:*	EMC/RF Taipei Testing Site
Prüflaboratorium: *Testing laboratory:*	Taipei Testing Laboratories
Prüfergebnis*: *Test result*:*	Pass

überprüft von: *compiled by:*	Jack Wang	**genehmigt von:** authorized by:	Brenda Chen
Datum: *Date:* 2022-01-22		**Ausstellungsdatum:** *Issue date:* 2022-01-22	
Stellung / *Position:*	Senior Project Engineer	**Stellung** / *Position:*	Senior Project Manager

Sonstiges / *Other:*

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.215	20 dB Bandwidth	Pass
5.1.2	2.1049	99% Occupied Bandwidth	Pass
5.1.3	15.249 (a)	Field Strength of Fundamental Emissions	Pass
5.1.4	15.249 (d)	Radiated Spurious Emissions	Pass
-	15.207	Mains Conducted Emission	Not Applicable

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

Contents

HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN2245H1 (P15C-24GHz) 001	Original Release	2022-01-22

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 Radiated Emissions
Appendix SP - Photographs of Test Setup
Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.249 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 basics 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
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Radiated Emission (40 GHz ~ 100 GHz)	±1.78 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is TF&RV Radar. It contains a 24GHz compatible module enabling the user to detect the object from the blindside through a radar detector.
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	TF&RV Radar
Type Identification	RD2484B
FCC ID	SS3-RD2484B2111

Technical Specification of EUT

Item	EUT information
Operating Frequency	24.05-24.25GHz
Operation Voltage	32Vdc
Modulation	FMCW
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 is tested after the power is on.

Test Software	None.

The samples were used as follows:
A003190968-001
Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To				Description
	20 dB Bandwidth and Occupied Bandwidth	Field Strength of Fundamental Emissions	Radiated Spurious Emissions	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 **Y-plane**.
2. "-" means no effect.

20 dB Bandwidth and Occupied Bandwidth

☒ 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 (GHz)	Tested Frequency (GHz)
-	24.05 to 24.25	24.05-24.25

Field Strength of Fundamental 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 (GHz)	Tested Frequency (GHz)
-	24.05 to 24.25	24.05-24.25

Radiated Spurious 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 (GHz)	Tested Frequency (GHz)
-	24.05 to 24.25	24.05-24.25

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
20 dB Bandwidth & 99% Occupied Bandwidth	21.6-23.1 °C	50-55 %	Hunter Wang
Radiated Spurious Emissions	21.6-23.1 °C	50-55 %	Hunter Wang
Field Strength of Fundamental Emissions	21.6-23.1 °C	50-55 %	Hunter Wang

4.3 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

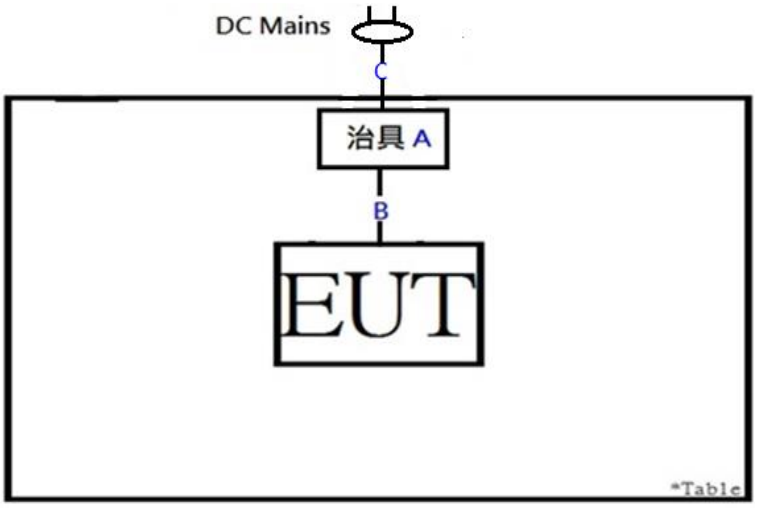
None.

Support Unit

Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	Fixture	TUV SZ	TUV SZ	N/A	-	-	-	--
B	Type-C Cable	TUV SZ	TUV SZ 001	N/A	YES	0	123	--
C	DC Cable	TUV SZ	TUV SZ 003	N/A	NO	0	195	--

4.4 Test Setup Diagram

<Radiated Spurious Emissions 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 EUT has antennas with directional gain of 8.5 dBi (8T4R) and 13 dBi (1T1R). The antenna is a linear antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.

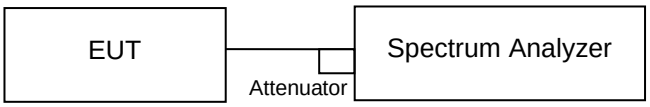
5.1.2 20 dB Bandwidth and 99% Occupied Bandwidth

Limit

The occupied bandwidth shall be specified in operating frequency band.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Signal Analyzer	Agilent	N9010A	MY52221334	2021/3/4	2024/3/3	2022/1/3	2022/1/18

Test Procedure

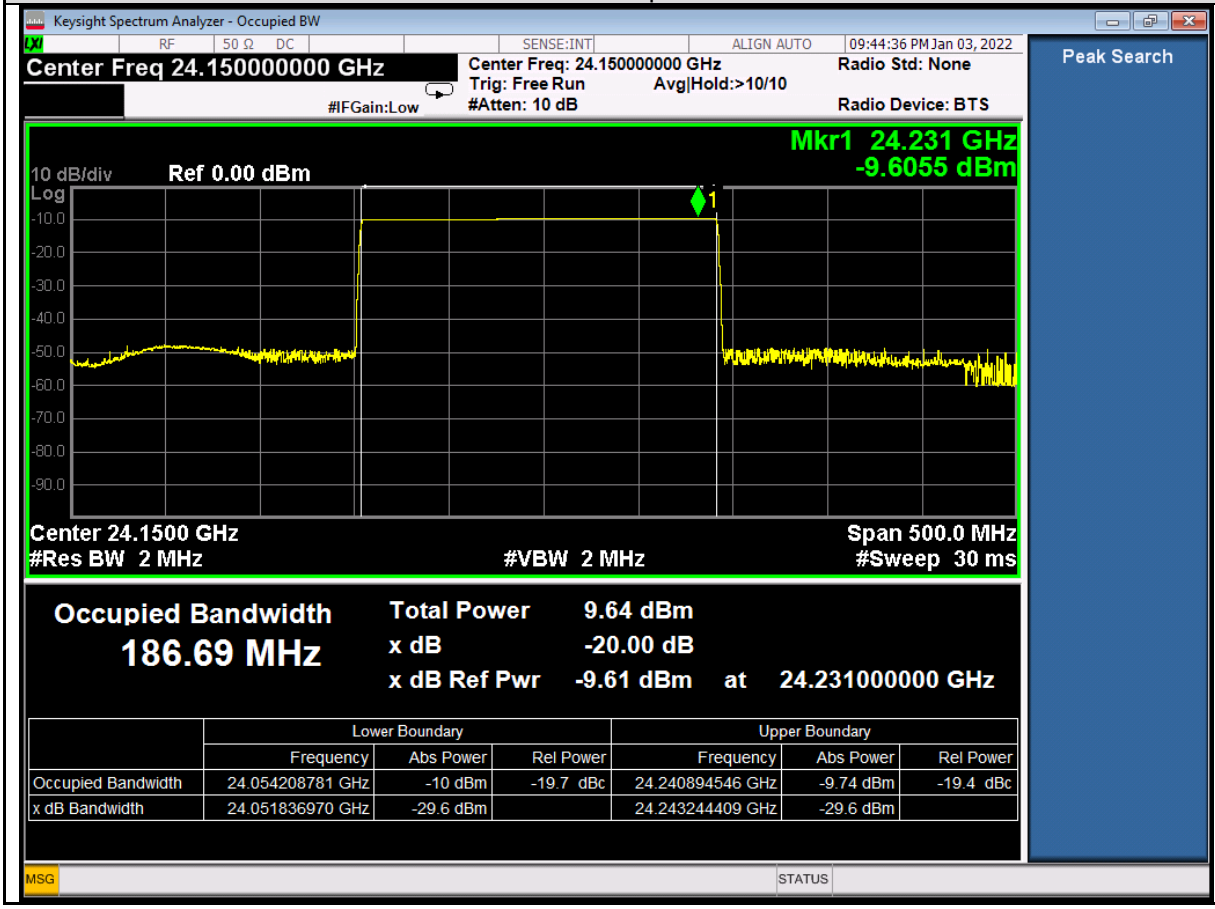
a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
c. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
d. Repeat above procedures until all frequencies measured were complete.
e. The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Results

<8T4R>

Frequency (GHz)	20 dB Bandwidth		99% Occupied Bandwidth
	F_L (GHz)	F_H (GHz)	(MHz)
24.05-24.25	24.052	24.243	186.69
Limit	24.05-24.25		-

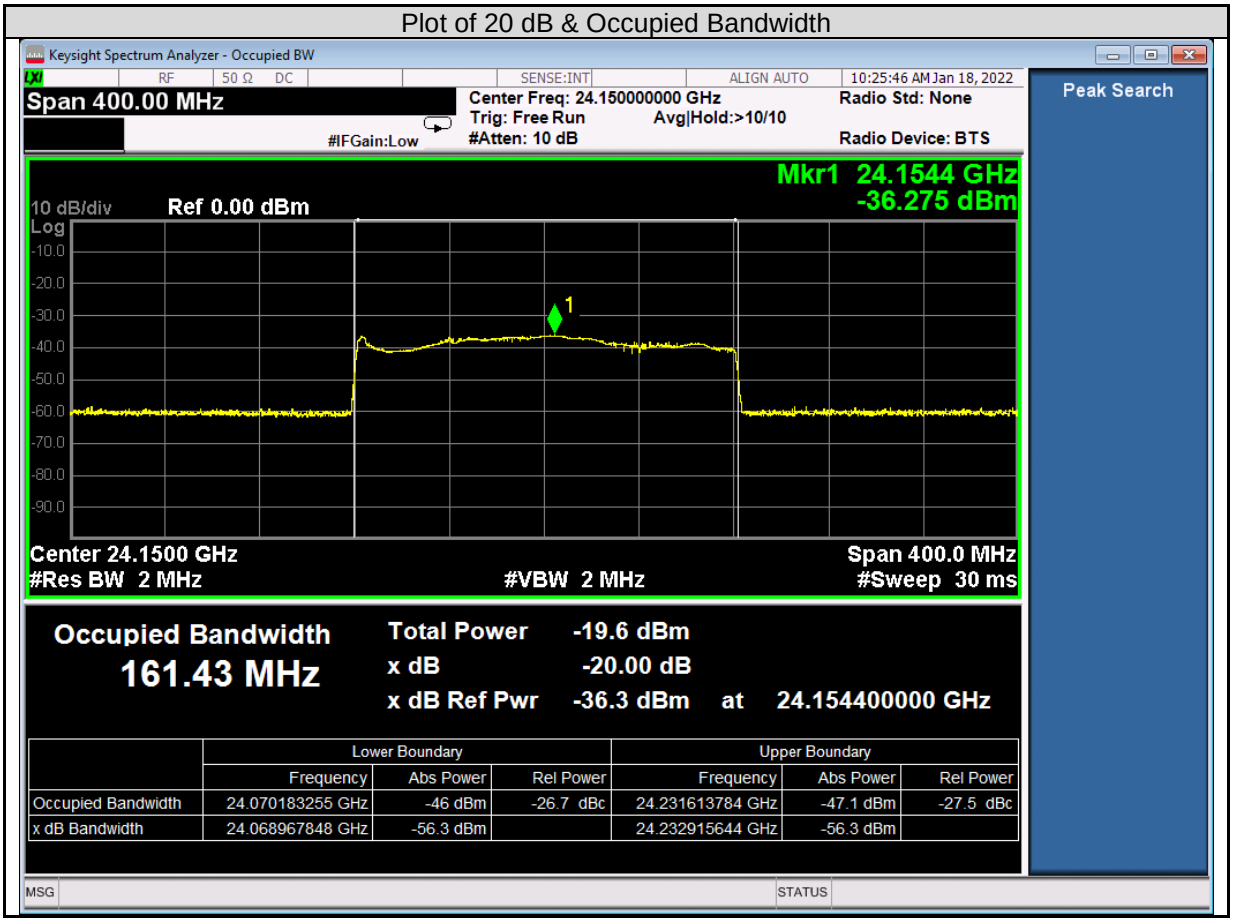
Plot of 20 dB & Occupied Bandwidth



<1T1R>

Frequency (GHz)	20 dB Bandwidth		99% Occupied Bandwidth
	F_L (GHz)	F_H (GHz)	(MHz)
24.05-24.25	24.069	24.233	161.43
Limit	24.05-24.25		-

Plot of 20 dB & Occupied Bandwidth



5.1.3 Field Strength of Fundamental Emissions

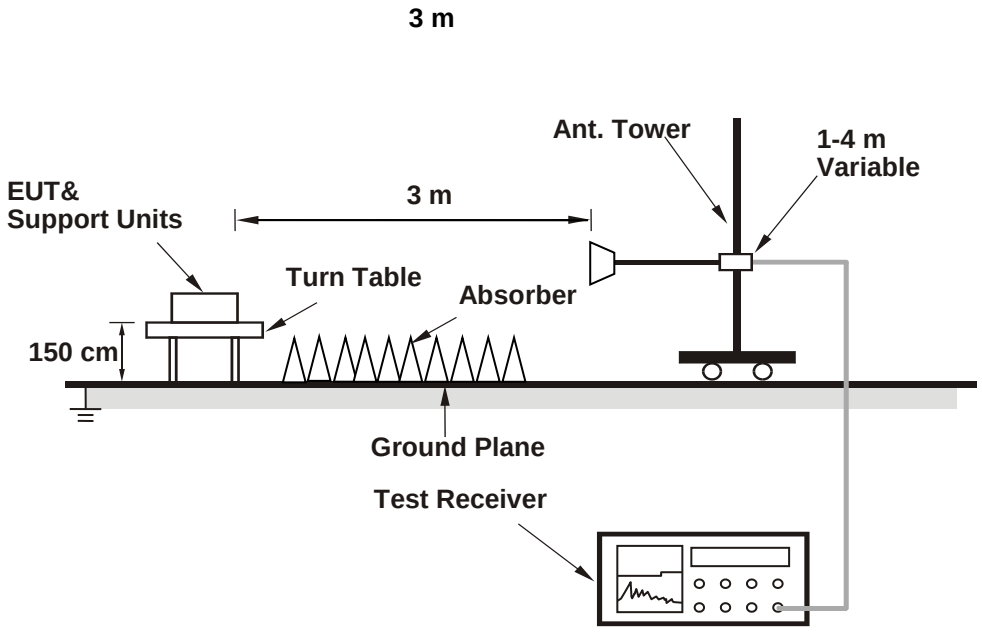
Limit

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meters)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup



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
Receiver	R&S	ESR7	102109	2021/3/16	2022/3/15
Signal Analyzer	R&S	FSV40	101508	2021/3/16	2022/3/15
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2021/2/18	2022/2/17
Horn Antenna	ETS-Lindgren	3117	00218930	2021/12/20	2022/12/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2021/4/8	2022/4/7
LF-AMP	Agilent	8447D	2944A10772	2021/2/18	2022/2/17
HF-AMP + AC source	EMCI	EMC051845SE	980633	2021/2/9	2022/2/8
HF-AMP + AC source	EMCI	EMC184045SE	980657	2021/2/1	2022/1/31
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2021/4/16	2022/4/15
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2021/4/16	2022/4/15
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2021/4/16	2022/4/15
Coincal Horn Antenna	VDI	WR15CH	1-15	2021/4/12	2024/4/11
Coincal Horn Antenna	VDI	WR12CH	RCH012RL	2021/4/15	2024/4/14
Coincal Horn Antenna	VDI	WR10CH	1-10	2021/2/19	2024/2/19
Coincal Horn Antenna	VDI	WR8.0CH	1-8.0	2021/4/8	2024/4/7
Coincal Horn Antenna	OML	M19RH	16070501	2021/4/8	2024/4/7
Mixer SA	VDI	N9029AV15	SAX 039	2019/7/1	2022/6/30
Mixer SA	VDI	N9029AV12	SAX 243	2019/7/1	2022/6/30
Mixer SA	VDI	N9029AV10	SAX 047	2019/7/1	2022/6/30
Mixer SA	VDI	N9029AV08	SAX 045	2019/7/1	2022/6/30
Harmonic Mixer	Keysight	M1971W	MY56390137	2019/7/1	2022/6/30
Harmonic Mixer	Keysight	M19HWDX	160118-1	2020/12/8	2023/12/7
Signal Analyzer	Agilent	N9010A	MY52221334	2021/3/4	2024/3/3
Loop Antenna	SCHWARZBECK	FMZB1519B	00215	2021/12/8	2022/12/7

Test Procedures

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) or 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. All modes of operation were investigated and the worst-case emissions are reported.
4. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

Test Results

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

Please refer to Appendix A.

5.1.4 Radiated Spurious Emissions

Limit

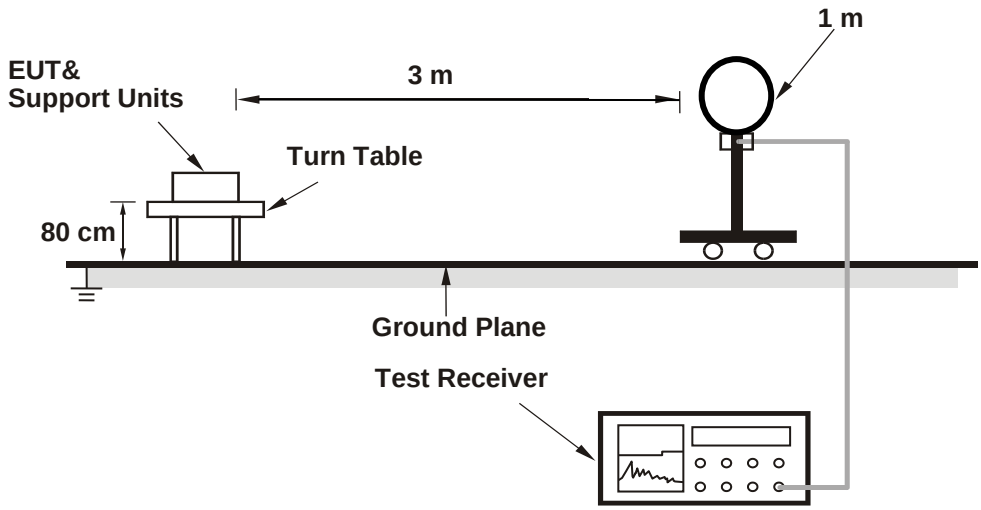
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

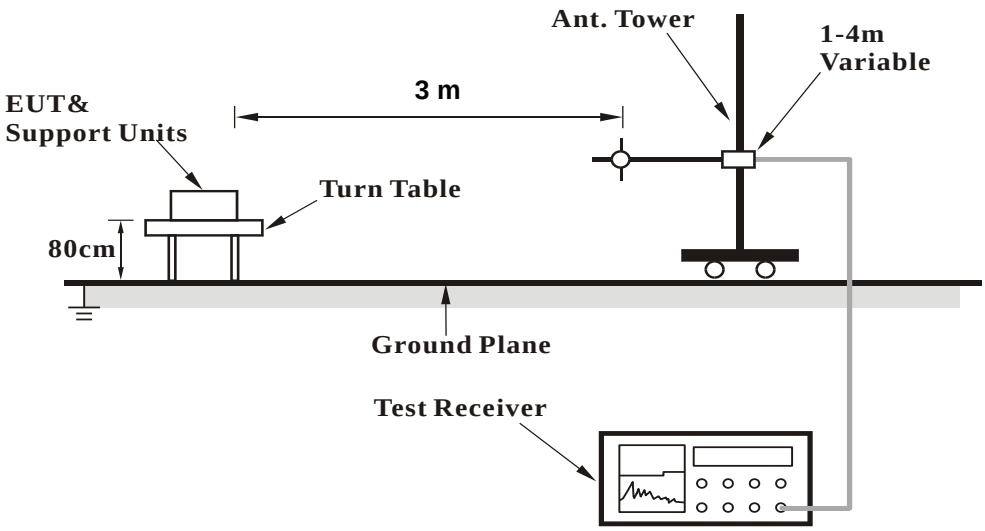
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

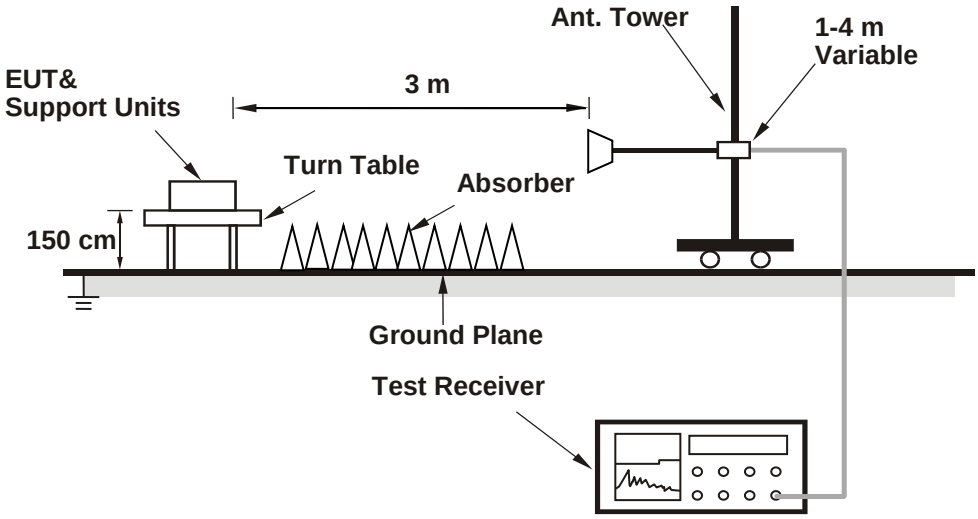
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emission above 1 GHz>



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

Test Instruments

Please refer to 5.1.3 Instruments

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 (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) 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. 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. All modes of operation were investigated and the worst-case emissions are reported.
4. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

Test Results

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

Please refer to Appendix A.

Appendix A: Test Results of Radiated Emissions

Fundamental Emissions

<8T4R>

24 GHz Radar	
Horizontal_Peak	**Vertical_Peak**

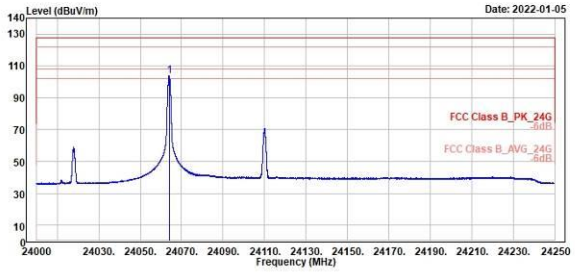
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	24065.64	104.22	100.78	3.44	127.96	-23.74	100	2	Peak	Horizontal	

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	24109.94	92.75	89.28	3.47	127.96	-35.21	120	268	Peak	Vertical	

24 GHz Radar

Horizontal_Average

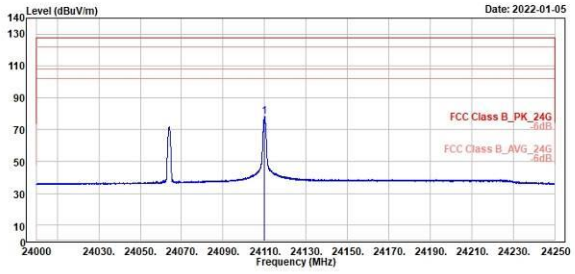
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	24063.97	103.82	100.38	3.44	107.96	-4.14	100	2	Average	Horizontal	

Vertical_Average

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



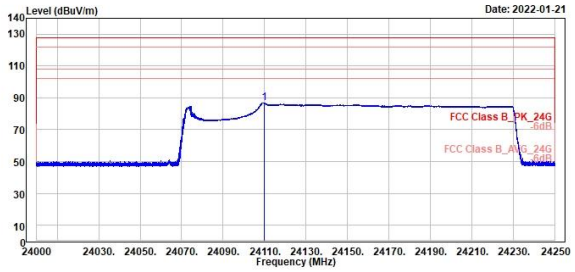
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	24110.00	78.42	74.95	3.47	107.96	-29.54	120	268	Average	Vertical	

<1T1R>

24 GHz Radar

Horizontal_Peak

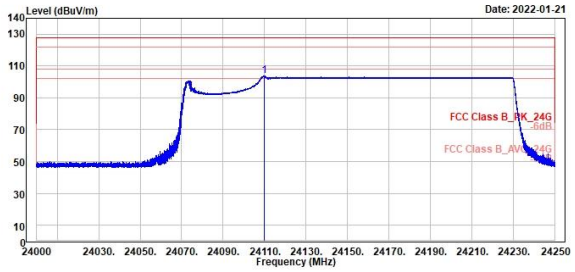
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	24110.00	86.89	83.42	3.47	127.96	-41.07	100	319	Peak	Horizontal	

Vertical_Peak

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

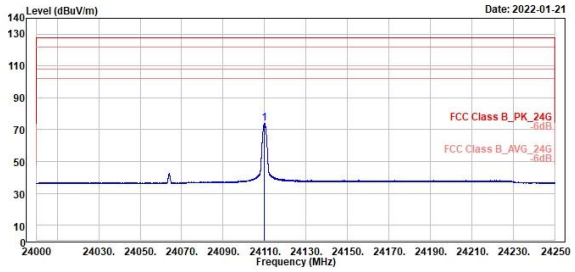


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	24109.98	103.62	100.15	3.47	127.96	-24.34	100	321	Peak	Vertical	

24 GHz Radar

Horizontal_Average

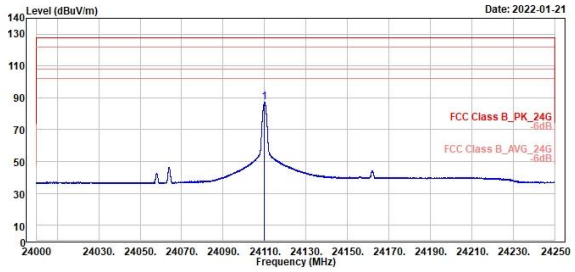
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	24109.97	74.00	70.53	3.47	107.96	-33.96	100	319	Average	Horizontal	

Vertical_Average

TÜV 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



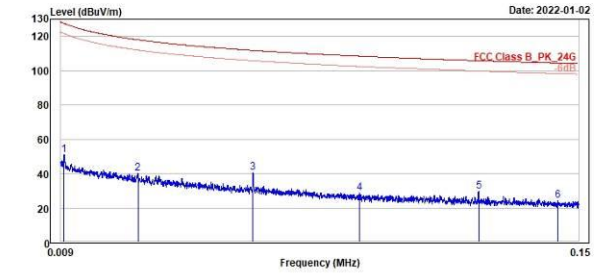
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	24109.98	87.12	83.65	3.47	107.96	-20.84	100	321	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

<8T4R>

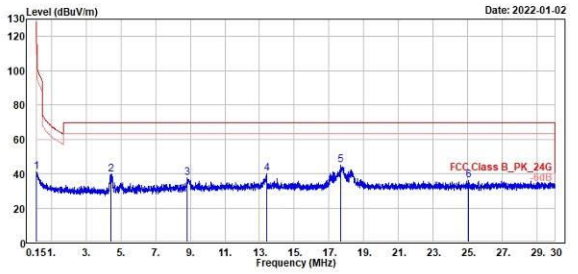
24 GHz Radar	
OPEN_9kHz~150kHz	OPEN _150kHz~30MHz

TÜV 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



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	51.10	33.35	17.75	127.62	-76.52	100	47	QP	Open	
2	0.03	40.12	20.57	19.55	118.03	-77.91	100	150	QP	Open	
3	0.06	40.54	21.44	19.10	111.83	-71.29	100	199	QP	Open	
4	0.09	28.58	10.11	18.47	108.49	-79.91	100	163	QP	Open	
5	0.12	29.84	11.50	18.34	105.82	-75.98	100	276	QP	Open	
6	0.14	24.22	5.80	18.42	104.41	-80.19	100	150	QP	Open	

TÜV 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

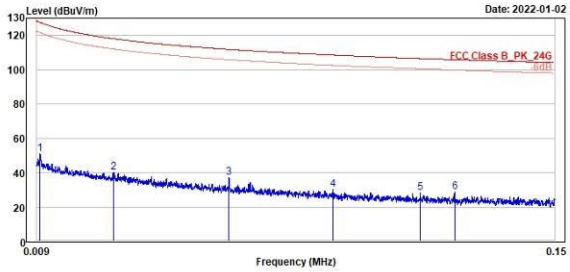


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.15	40.82	22.38	18.44	104.08	-63.26	100	72	QP	Open	
2	4.41	39.73	20.33	19.40	69.50	-29.77	100	139	QP	Open	
3	8.85	37.41	16.50	20.91	69.50	-32.09	100	153	QP	Open	
4	13.40	39.92	18.32	21.60	69.50	-29.58	100	270	QP	Open	
5	17.68	44.90	23.00	21.90	69.50	-24.60	100	171	QP	Open	
6	25.05	36.19	13.95	22.24	69.50	-33.31	100	116	QP	Open	

24 GHz Radar

CLOSE_9kHz~150kHz

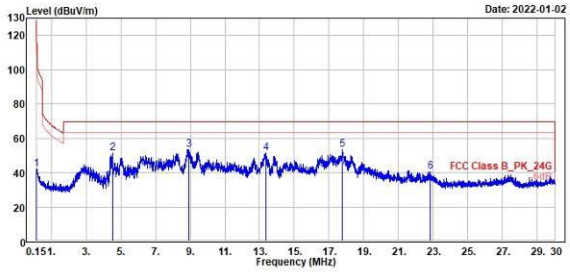
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	50.73	32.98	17.75	127.62	-76.89	100	109	QP	Close	
2	0.03	39.98	20.44	19.54	118.09	-78.11	100	288	QP	Close	
3	0.06	37.00	17.90	19.10	111.83	-74.83	100	336	QP	Close	
4	0.09	30.40	11.91	18.49	108.54	-78.14	100	12	QP	Close	
5	0.11	28.00	9.69	18.31	106.50	-78.50	100	262	QP	Close	
6	0.12	28.49	10.15	18.34	105.82	-77.33	100	267	QP	Close	

CLOSE_150kHz~30MHz

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



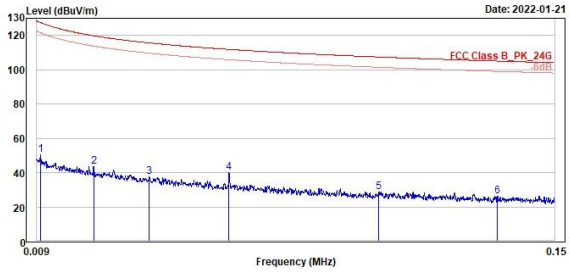
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.15	41.86	23.42	18.44	104.08	-62.22	100	108	QP	Close	
2	4.51	51.43	32.03	19.40	69.50	-18.07	100	86	QP	Close	
3	8.93	53.56	32.62	20.94	69.50	-15.94	100	106	QP	Close	
4	13.36	51.27	29.67	21.60	69.50	-18.23	100	144	QP	Close	
5	17.76	53.55	31.64	21.91	69.50	-15.95	100	233	QP	Close	
6	22.85	40.58	18.42	22.16	69.50	-28.92	100	330	QP	Close	

<1T1R>

24 GHz Radar

OPEN_9kHz~150kHz

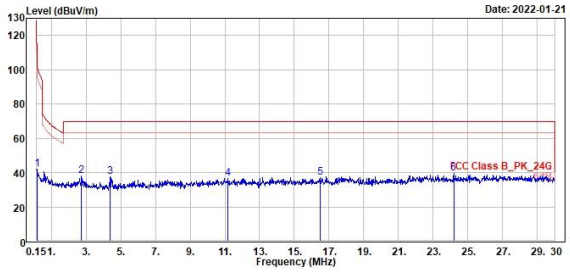
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	50.18	32.43	17.75	127.54	-77.36	100	112	QP	Open	
2	0.02	43.52	24.47	19.05	119.78	-76.26	100	125	QP	Open	
3	0.04	37.36	17.91	19.45	115.62	-78.26	100	11	QP	Open	
4	0.06	40.01	20.91	19.10	111.83	-71.82	100	250	QP	Open	
5	0.10	28.79	10.52	18.27	107.41	-78.62	100	128	QP	Open	
6	0.13	26.36	7.98	18.38	105.02	-78.66	100	212	QP	Open	

OPEN _150kHz~30MHz

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

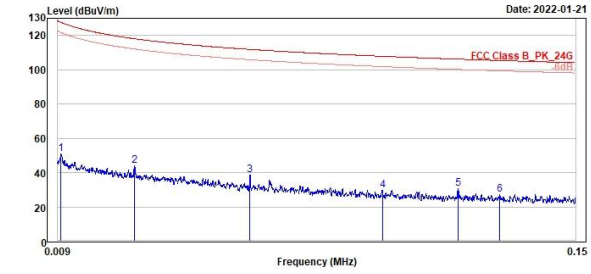


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.19	41.95	23.35	18.60	101.81	-59.86	100	50	QP	Open	
2	2.72	38.15	18.65	19.50	69.50	-31.35	100	319	QP	Open	
3	4.40	37.47	18.07	19.40	69.50	-32.03	100	312	QP	Open	
4	11.16	36.55	15.09	21.46	69.50	-32.95	100	316	QP	Open	
5	16.48	37.04	15.22	21.82	69.50	-32.46	100	267	QP	Open	
6	24.18	39.41	17.20	22.21	69.50	-30.09	100	194	QP	Open	

24 GHz Radar

CLOSE_9kHz~150kHz

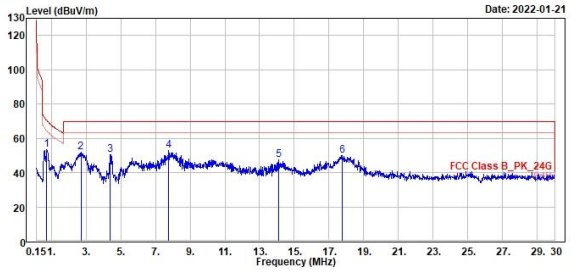
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	50.89	33.12	17.77	127.66	-76.77	100	14	QP	Close	
2	0.03	43.91	24.37	19.54	118.07	-74.16	100	6	QP	Close	
3	0.06	38.76	19.66	19.10	111.83	-73.07	100	229	QP	Close	
4	0.10	29.89	11.57	18.32	107.82	-77.93	100	24	QP	Close	
5	0.12	30.56	12.24	18.32	106.16	-75.60	100	215	QP	Close	
6	0.13	27.25	8.89	18.36	105.36	-78.11	100	247	QP	Close	

CLOSE_150kHz~30MHz

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



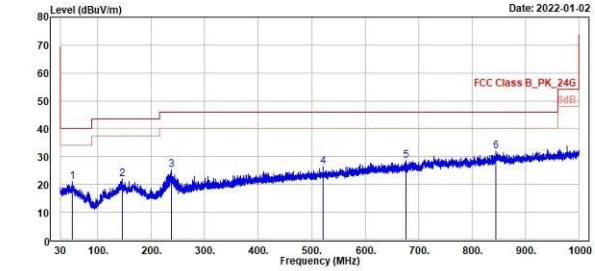
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.75	53.33	34.18	19.15	70.14	-16.81	100	1	QP	Close	
2	2.70	51.84	32.34	19.50	69.50	-17.66	100	157	QP	Close	
3	4.40	50.44	31.04	19.40	69.50	-19.06	100	43	QP	Close	
4	7.76	52.82	32.35	20.47	69.50	-16.68	100	1	QP	Close	
5	14.10	47.33	25.67	21.66	69.50	-22.17	100	214	QP	Close	
6	17.76	49.81	27.90	21.91	69.50	-19.69	100	53	QP	Close	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

<8T4R>

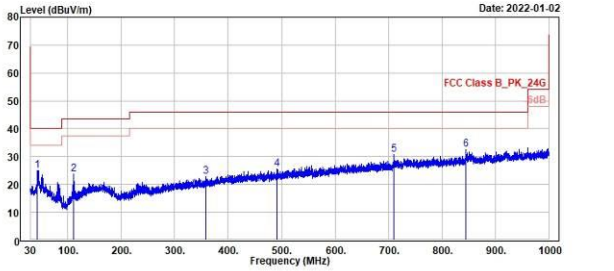
24 GHz Radar	
Horizontal	**Vertical**

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



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	52.02	20.89	28.50	-7.61	40.00	-19.11	300	83	QP	Horizontal	
2	144.85	21.88	29.42	-7.54	43.50	-21.62	300	286	QP	Horizontal	
3	237.77	25.36	33.72	-8.36	46.00	-20.64	100	119	QP	Horizontal	
4	521.89	26.52	29.10	-2.58	46.00	-19.48	300	28	QP	Horizontal	
5	676.12	28.72	28.83	-0.11	46.00	-17.28	400	7	QP	Horizontal	
6	845.38	31.94	29.39	2.55	46.00	-14.06	200	274	QP	Horizontal	

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



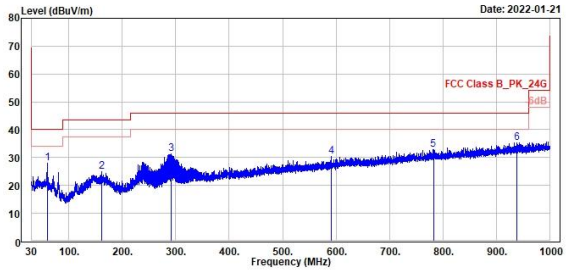
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	42.90	24.89	32.49	-7.60	40.00	-15.11	100	360	QP	Vertical	
2	111.00	23.59	34.58	-10.99	43.50	-19.91	117	360	QP	Vertical	
3	357.57	22.87	28.34	-5.47	46.00	-23.13	100	360	QP	Vertical	
4	490.65	25.67	29.04	-3.37	46.00	-20.33	100	153	QP	Vertical	
5	709.87	30.67	30.27	0.40	46.00	-15.33	200	360	QP	Vertical	
6	844.90	32.61	30.06	2.55	46.00	-13.39	200	168	QP	Vertical	

<1T1R>

24 GHz Radar

Horizontal

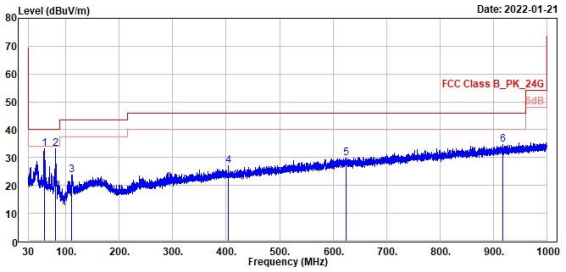
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	59.59	27.91	36.53	-8.62	40.00	-12.09	200	360	QP	Horizontal	
2	161.82	24.91	31.97	-7.06	43.50	-18.59	200	55	QP	Horizontal	
3	291.51	31.41	38.07	-6.66	46.00	-14.59	100	360	QP	Horizontal	
4	591.53	30.39	31.95	-1.56	46.00	-15.61	300	360	QP	Horizontal	
5	782.33	32.79	31.03	1.76	46.00	-13.21	200	55	QP	Horizontal	
6	938.31	35.35	31.19	4.16	46.00	-10.65	300	103	QP	Horizontal	

Vertical

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



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	60.17	33.25	41.94	-8.69	40.00	-6.75	200	358	QP	Vertical	
2	80.15	33.30	45.48	-12.18	40.00	-6.70	100	359	QP	Vertical	
3	110.70	23.88	34.78	-10.90	43.50	-19.62	200	26	QP	Vertical	
4	403.74	27.05	31.28	-4.23	46.00	-18.95	215	104	QP	Vertical	
5	625.10	29.76	30.51	-0.75	46.00	-16.24	400	360	QP	Vertical	
6	917.65	34.80	31.00	3.80	46.00	-11.20	100	197	QP	Vertical	

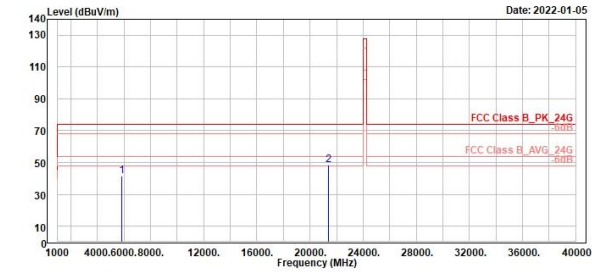
Spurious Emissions, Tx Mode, 1GHz ~ 100GHz

<8T4R>

24 GHz Radar

Horizontal_1GHz~40GHz

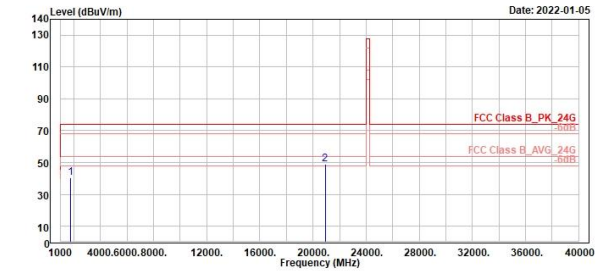
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, ,Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5852.00	41.34	49.57	-8.23	74.00	-32.66	300	215	Peak	Horizontal	
2	21416.00	48.41	47.50	0.91	74.00	-25.59	300	22	Peak	Horizontal	

Vertical_1GHz~40GHz

TÜV 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

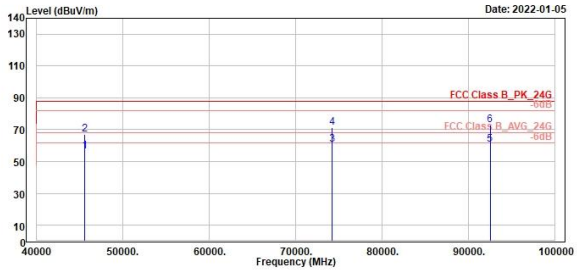


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1773.00	40.44	57.56	-17.12	74.00	-33.56	100	189	Peak	Vertical	
2	20916.00	49.02	48.78	0.24	74.00	-24.98	300	162	Peak	Vertical	

24 GHz Radar

Horizontal_40GHz~100GHz

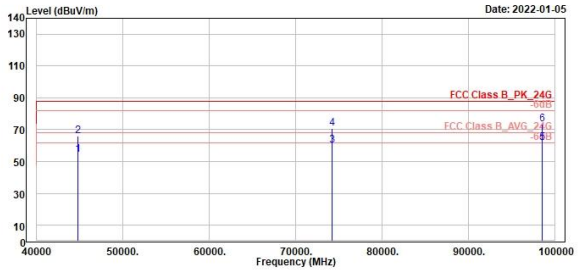
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	45547.00	56.21	4.55	51.66	67.96	-11.75	150	342	Average	Horizontal	
2	45547.00	67.21	15.55	51.66	87.96	-20.75	150	342	Peak	Horizontal	
3	74192.50	60.45	1.87	58.58	67.96	-7.51	150	227	Average	Horizontal	
4	74192.50	71.10	12.52	58.58	87.96	-16.86	150	227	Peak	Horizontal	
5	92517.50	60.52	1.93	58.59	67.96	-7.44	150	207	Average	Horizontal	
6	92517.50	73.13	14.54	58.59	87.96	-14.83	150	207	Peak	Horizontal	

Vertical_40GHz~100GHz

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



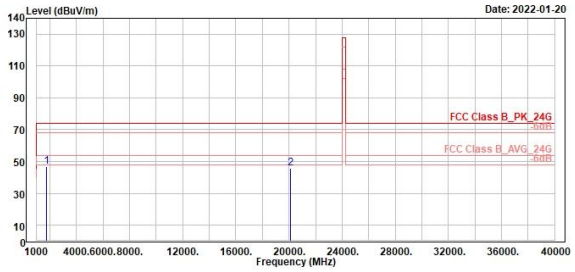
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	44756.00	54.55	4.72	49.83	67.96	-13.41	150	254	Average	Vertical	
2	44756.00	65.95	16.12	49.83	87.96	-22.01	150	254	Peak	Vertical	
3	74205.00	60.38	1.80	58.58	67.96	-7.58	150	302	Average	Vertical	
4	74205.00	70.67	12.09	58.58	87.96	-17.29	150	302	Peak	Vertical	
5	98552.50	61.90	1.76	60.14	67.96	-6.06	150	38	Average	Vertical	
6	98552.50	73.31	13.17	60.14	87.96	-14.65	150	38	Peak	Vertical	

<1T1R>

24 GHz Radar

Horizontal_1GHz~40GHz

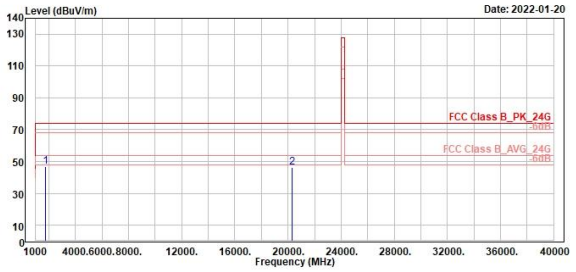
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1759.00	46.81	64.13	-17.32	74.00	-27.19	100	237	Peak	Horizontal	
2	20092.00	45.74	46.92	-1.18	74.00	-28.26	400	257	Peak	Horizontal	

Vertical_1GHz~40GHz

TÜV 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

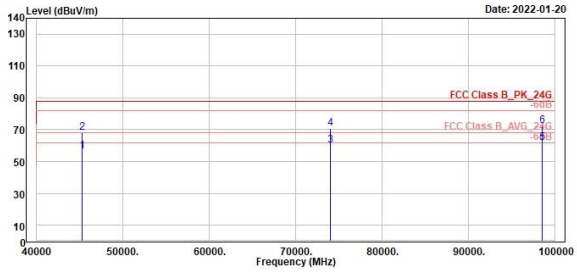


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1765.00	47.03	64.27	-17.24	74.00	-26.97	200	358	Peak	Vertical	
2	20324.00	46.34	47.28	-0.94	74.00	-27.66	100	217	Peak	Vertical	

24 GHz Radar

Horizontal_40GHz~100GHz

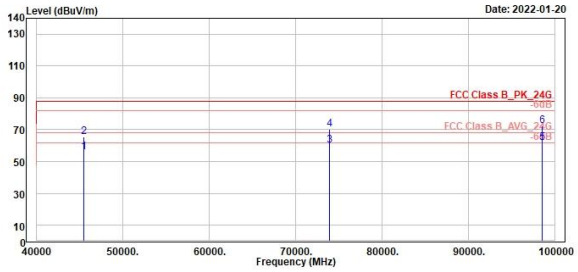
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	45232.00	56.48	4.92	51.56	67.96	-11.48	150	317	Average	Horizontal	
2	45232.00	67.90	16.34	51.56	87.96	-20.06	150	317	Peak	Horizontal	
3	74030.00	60.34	1.82	58.52	67.96	-7.62	150	112	Average	Horizontal	
4	74030.00	70.78	12.26	58.52	87.96	-17.18	150	112	Peak	Horizontal	
5	98525.00	61.87	1.73	60.14	67.96	-6.09	150	214	Average	Horizontal	
6	98525.00	72.27	12.13	60.14	87.96	-15.69	150	214	Peak	Horizontal	

Vertical_40GHz~100GHz

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



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	45508.00	55.86	5.55	50.31	67.96	-12.10	150	17	Average	Vertical	
2	45508.00	65.71	15.40	50.31	87.96	-22.25	150	17	Peak	Vertical	
3	73892.50	60.14	1.66	58.48	67.96	-7.82	150	201	Average	Vertical	
4	73892.50	70.36	11.88	58.48	87.96	-17.60	150	201	Peak	Vertical	
5	98582.50	61.93	1.77	60.16	67.96	-6.03	150	62	Average	Vertical	
6	98582.50	72.64	12.48	60.16	87.96	-15.32	150	62	Peak	Vertical	