

Prüfbericht-Nr.: Test report no.:	CN22Q9HE(P15C-THREAD) 001	Auftrags-Nr.: Order no.:	238539497	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-02-09	
Auftraggeber: Client:	Eve Systems LLC 100 Pine St., Suite 1250, San Francisco CA 94111 USA			
Prüfgegenstand: Test item:	Eve Motion			
Bezeichnung / Typ-Nr.: Identification / Type no.:	20EBY9901			
Auftrags-Inhalt: Order content:	FCC Part 15C Test report (Thread)			
Prüfgrundlage: Test specification:	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: Date of sample receipt:	2022-02-21			
Prüfmuster-Nr.: Test sample no:	A003215160-003 A003215160-006			
Prüfzeitraum: Testing period:	2022-5-18 - 2022-06-07			
Ort der Prüfung: Place of testing:	EMC/RF Taipei Testing Site			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
zusammengestellt von: compiled by:	genehmigt von: authorized by:			
Datum: Date: 2022-06-07	 Ryan Chen		 Brenda Chen	
Stellung / Position:	Senior Project Manager		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.				

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(3)	Peak Output Power	Pass
5.1.3	15.247(a)(2)	6 dB Bandwidth	Pass
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.247(e)	Power Spectral Density	Pass
5.1.5	15.247(d)	Conducted Spurious Emissions and Band Edges	Pass
5.1.6	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	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.

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APPENDIX A - TEST RESULT OF CONDUCTED

APPENDIX B - TEST RESULT OF RADIATED EMISSIONS

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
CN22Q9HE(P15C-THREAD) 001	Original Release	2022-06-07

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 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 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
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)	± 1.32 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
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is an Eve Motion. It contains a THREAD 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	Eve Motion
Type Identification	20EBY9901
FCC ID	SNE-MOT-003

Technical Specification of EUT

Item	EUT information
Operating Frequency	2405 MHz ~ 2480 MHz
Channel Number	16
Data Rate	250 kbps
Operation Voltage	3Vdc (Battery AAA*2)
Modulation	GFSK
Maximum Output Power (mW)	6.65
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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.

Table for Parameters of Test Software Setting

Frequency (MHz)	Power Setting
2405	8
2440	8
2475	8
2480	-4

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)	Channel	Freq. (MHz)
11	2405	19	2445
12	2410	20	2450
13	2415	21	2455
14	2420	22	2460
15	2425	23	2465
16	2430	24	2470
17	2435	25	2475
18	2440	26	2480

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with an UART 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	nRF_DTM.exe
---------------	-------------

The samples were used as follows:

A003215160-003 for radiated test

A003215160-006 for conducted test

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 Y-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)	Date Rate (kbps)
-	2405 to 2480	2405, 2440, 2475, 2480	250

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)	Date Rate (kbps)
-	2405 to 2480	2405, 2440, 2475, 2480	250

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)	Date Rate (kbps)
-	2405 to 2480	2405	250

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	25.5-25.6 °C	59.2-60.2 %	Barry Xiao
Radiated Spurious Emissions above 1 GHz	23.7-24.6 °C	52-55 %	Terry Chang
Radiated Spurious Emissions below 1 GHz	23.7-24.6 °C	52-55 %	Terry Chang

4.4 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

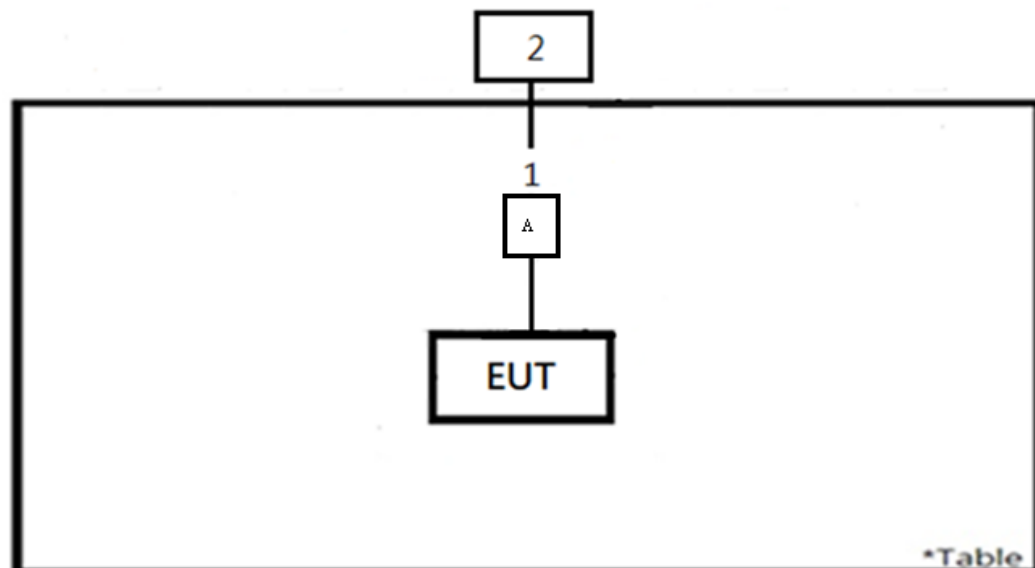
None.

Support Unit

No.	Description	Brand	Model	S/N	Remark
Radiated Test					
A	Uart	Eve	Dexatek-01	-	-
1	USB cable	TUV	TUV-01	-	300 cm non-shielded cable w/o core
2	Notebook	Lenovo	81BL	MP1DCD6Y	-
Conducted Test					
-	Notebook	LENOVO	G580	CB21920765	-

4.5 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

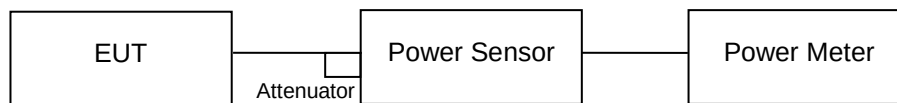
According to the manufacturer declaration, the EUT has an antenna with a directional gain of 2.4 dBi. The antenna is a PCB antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.
Refer to EUT photo for details.

5.1.2 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	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2022/3/15	2023/3/14	2022/5/18	2022/5/19
Power Sensor	Anritsu	MA2411B	1725269	2022/3/15	2023/3/14	2022/5/18	2022/5/19

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

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
11	2405	8.21	6.62	30
18	2440	8.23	6.65	30
25	2475	7.55	5.69	30
26	2480	-3.83	0.41	30

Average Power

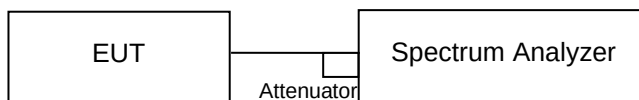
Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
11	2405	8.15	6.53
18	2440	8.17	6.56
25	2475	7.51	5.64
26	2480	-4.47	0.36

5.1.3 6 dB Bandwidth and 99% Occupied 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	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV40	101512	2022/2/24	2023/2/23	2022/5/18	2022/6/7

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.
- For 99% occupied bandwidth measurement, 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 PEAK. 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

Please refer to Appendix A.

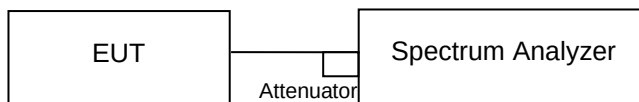
5.1.4 Power Spectral Density

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	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV40	101512	2022/2/24	2023/2/23	2022/5/18	2022/6/7

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.

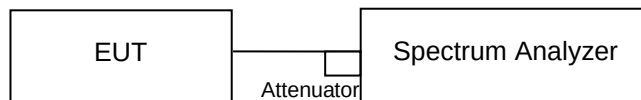
5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

Limit

20dB (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	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV40	101512	2022/2/24	2023/2/23	2022/5/18	2022/6/7

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

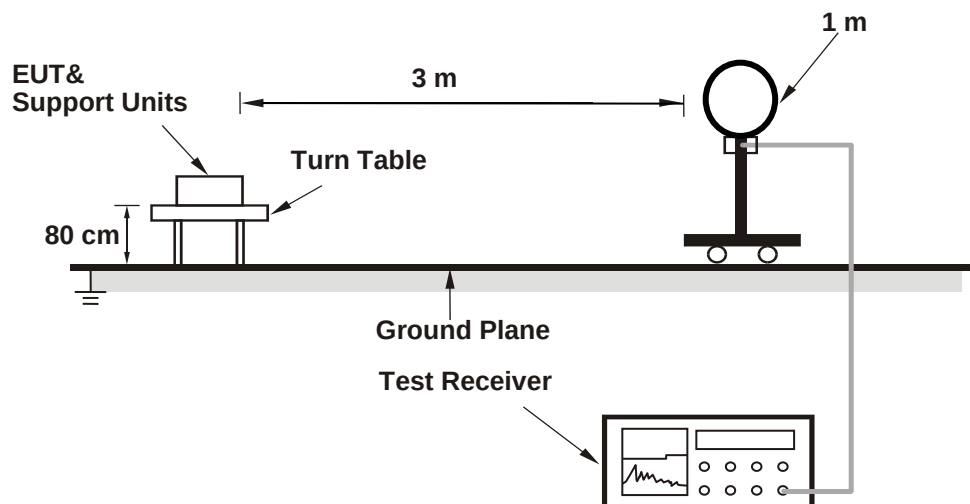
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

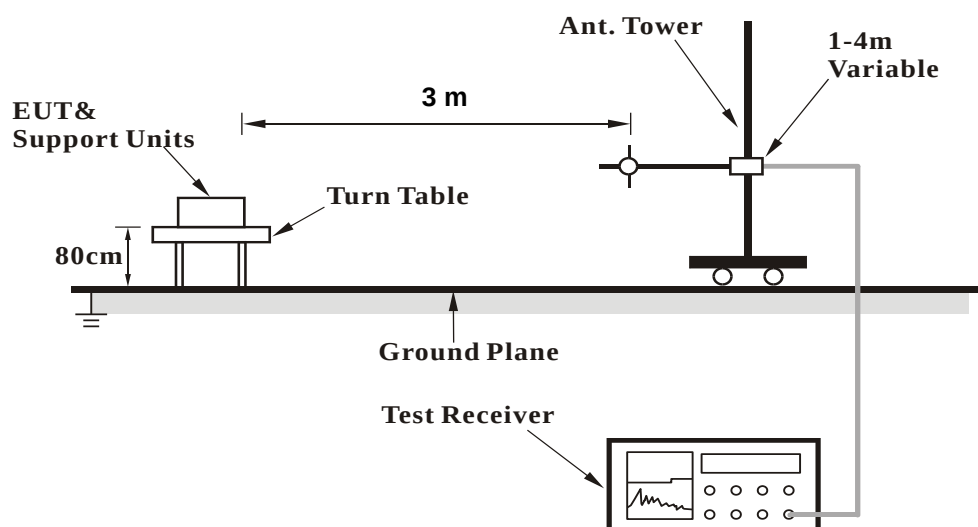
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

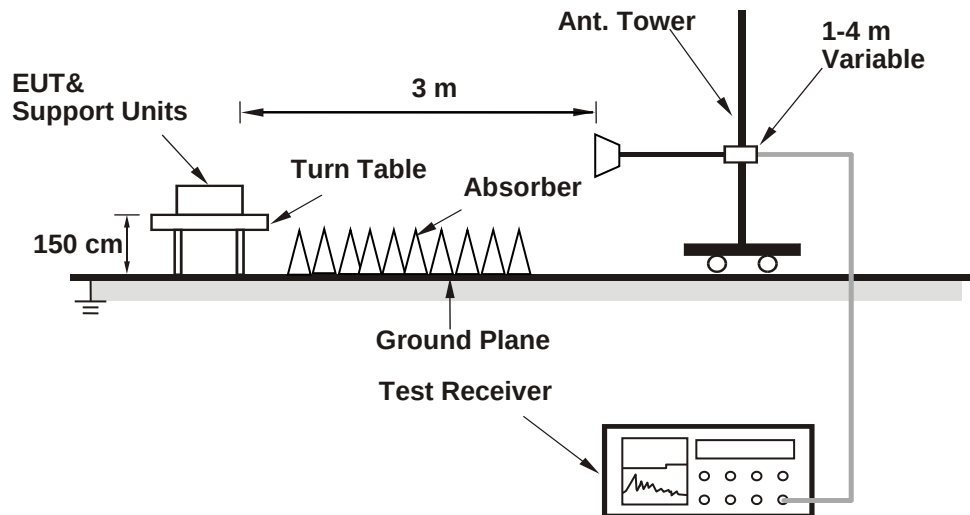
<Radiated Emissions below 30 MHz>



<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).

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Test Instruments and Test Date

Below 30MHz: 2022/5/25

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24
Microwave Cable	SUCOFLEX 104EA	800056/4EA	804680/4	2022/3/22	2023/3/21
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2021/12/8	2022/12/7

30MHz-1GHz: 2022/5/24

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24
Bilog Antenna	SCHWARZBECK	VULB-9168	00949	2021/5/30	2022/5/29
LF-AMP	Agilent	8447D	2727A05146	2022/2/16	2023/2/15

Above 1GHz: 2022/5/24 - 2022/6/7

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101509	2022/4/22	2023/4/21
Horn Antenna	ETS-Lindgren	3117	00218929	2021/11/25	2022/11/24
HF-AMP + AC source	EMCI	EMC051845SE	980635	2022/1/20	2023/1/19
HF-AMP + AC source	EMCI	EMC184045SE	980656	2022/1/20	2023/1/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2022/3/29	2023/3/28

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. 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 ≥ 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(E1), Y(H) and Z(E2) 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)

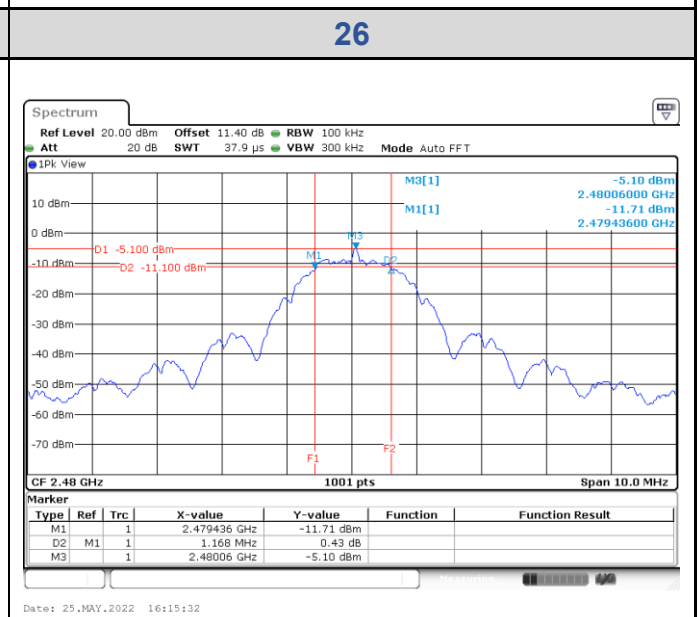
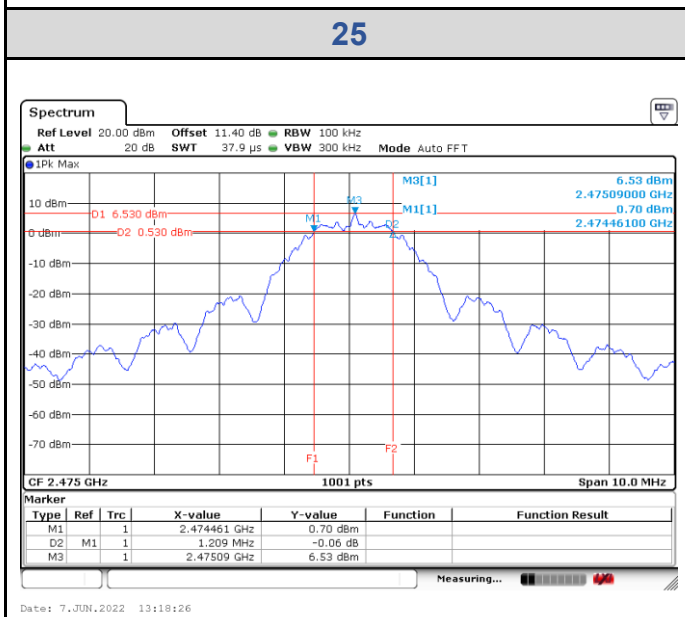
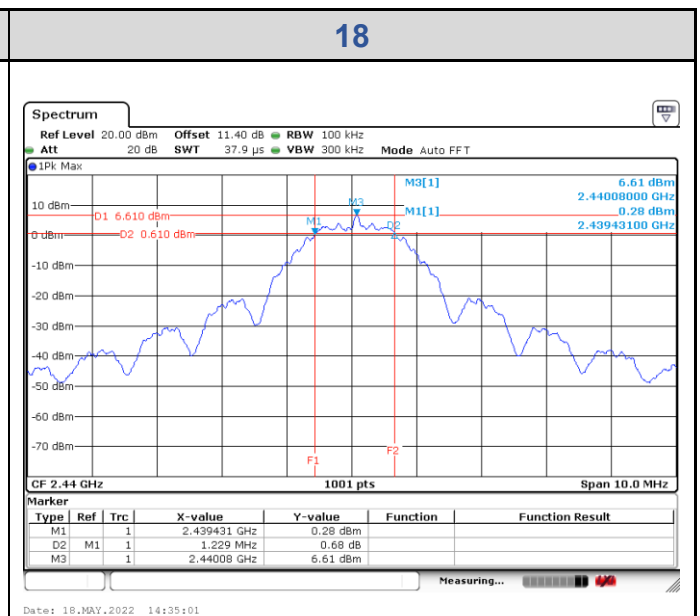
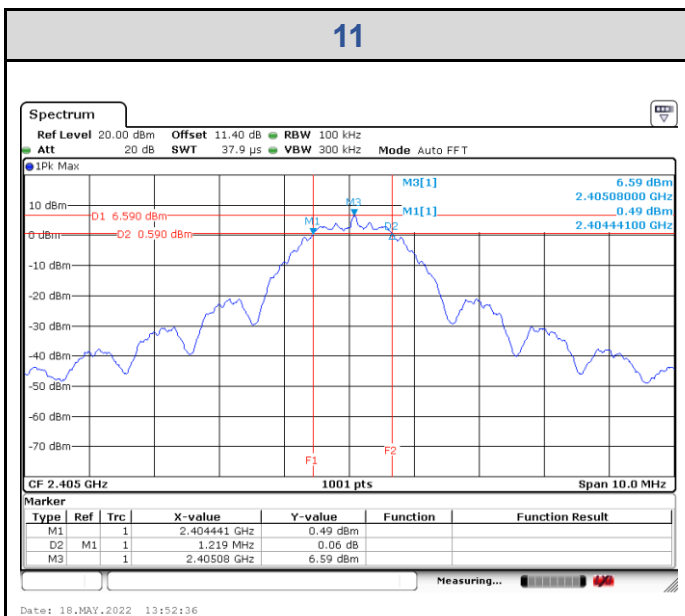
Please refer to Appendix B.

Appendix A: Test Results of Conducted Test

Test Result of 6 dB Bandwidth

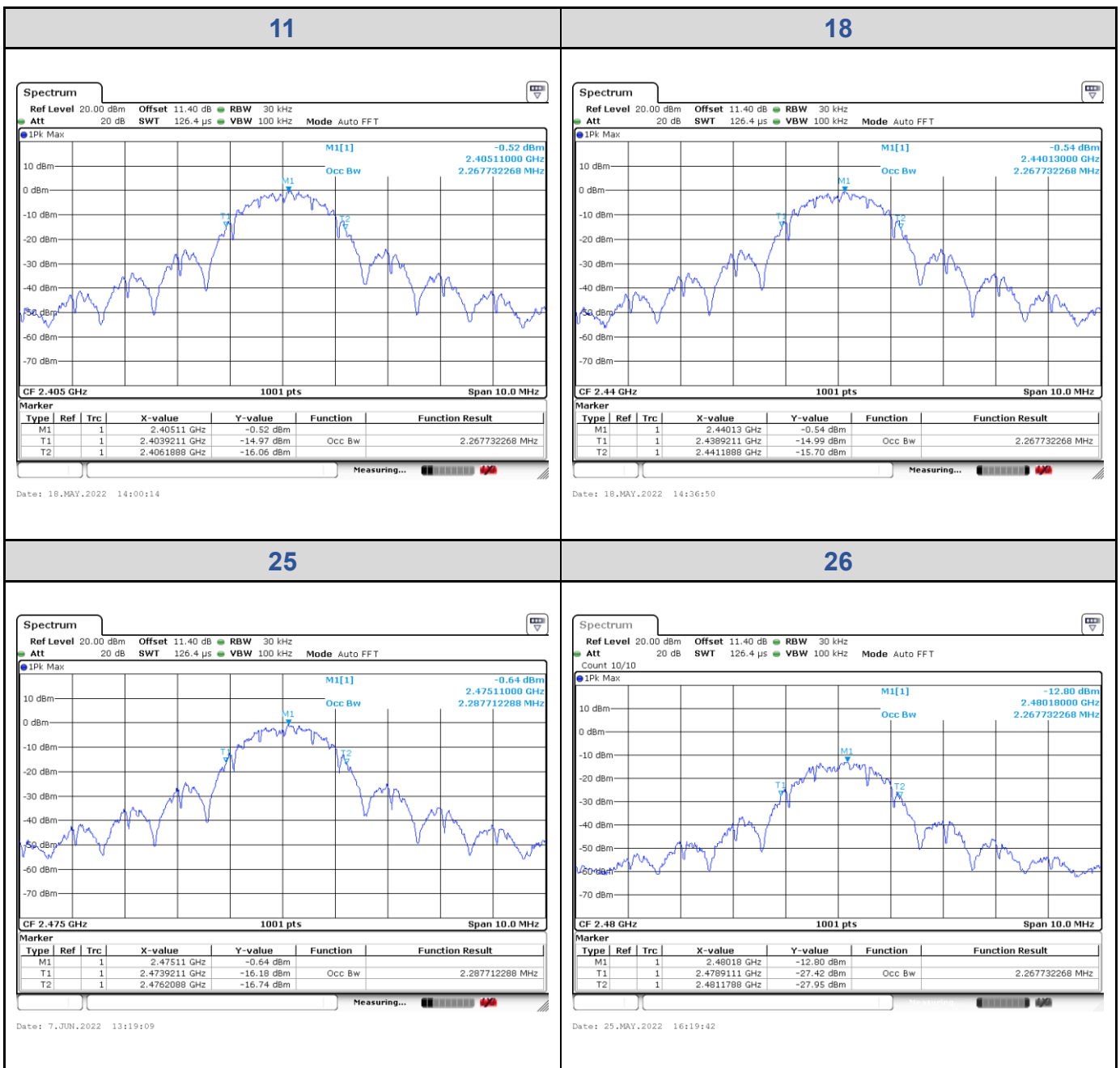
Thread

Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
11	2405	1219.00	> 500	Pass
18	2440	1229.00	> 500	Pass
25	2475	1209.00	> 500	Pass
26	2480	1168.00	> 500	Pass



Test Result of 99% Occupied Bandwidth Thread

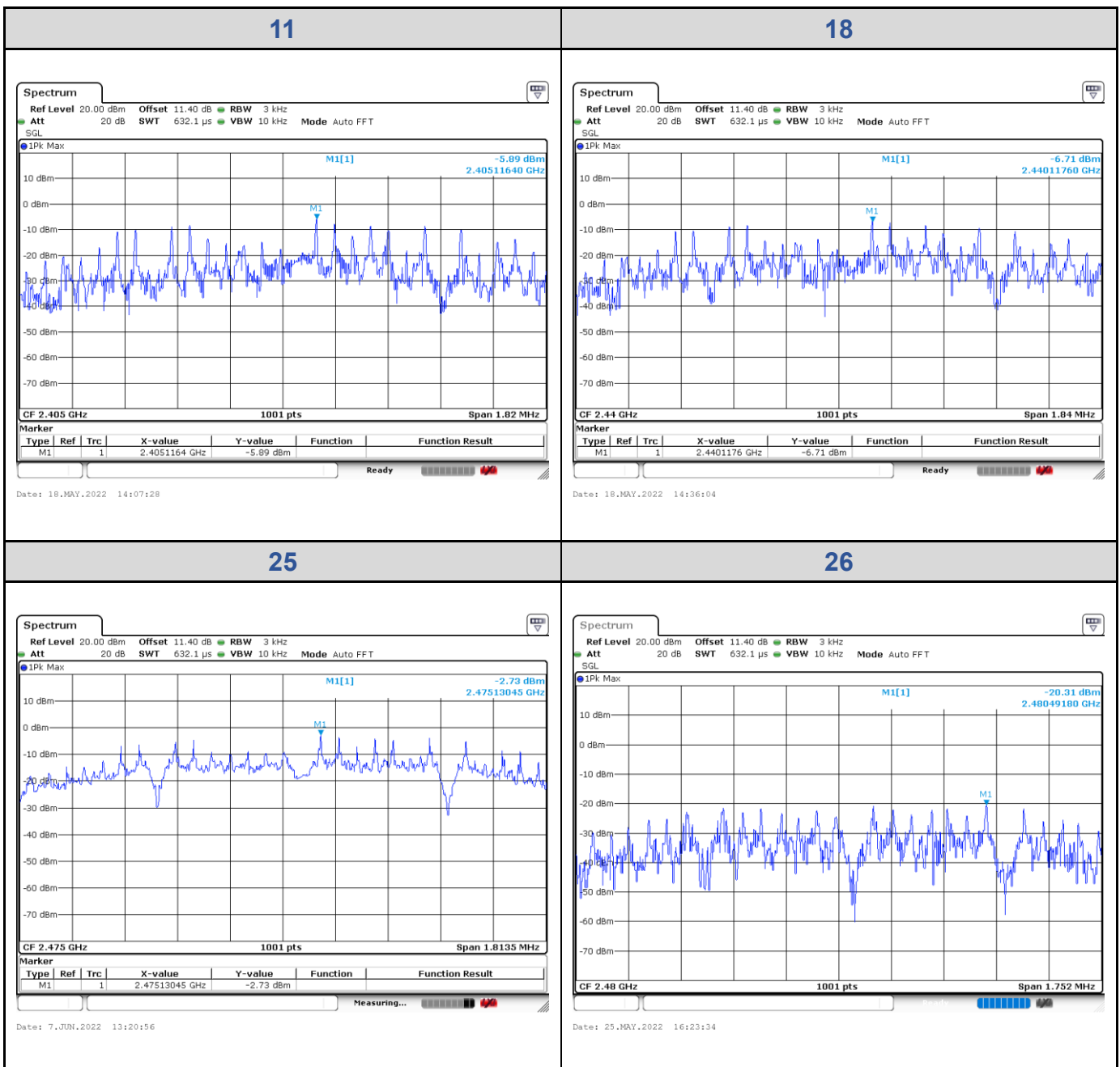
Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
11	2405	2.27
18	2440	2.27
25	2475	2.29
26	2480	2.27



Test Result of Power Spectral Density

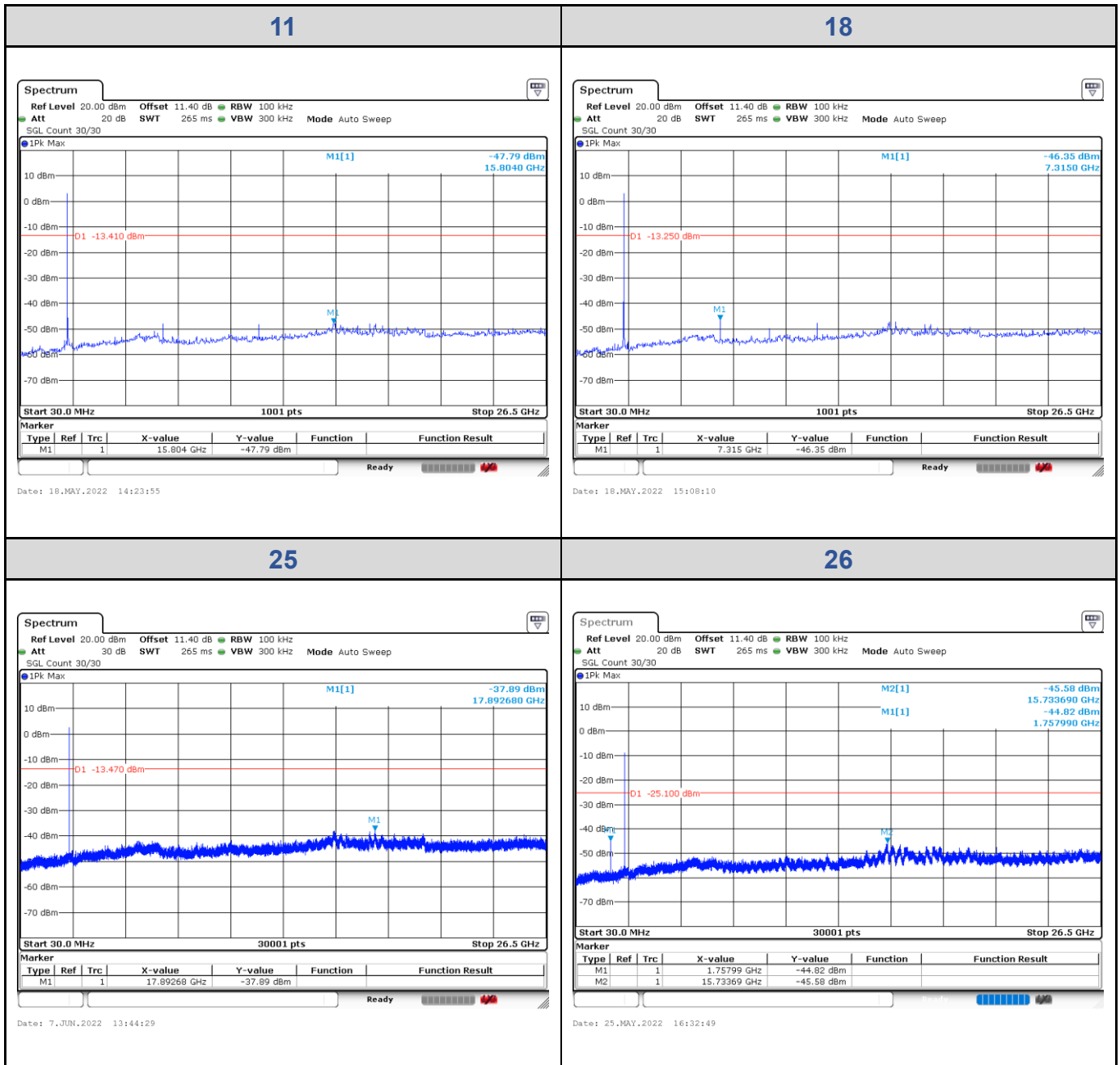
BLE_1M

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
11	2405	-5.89	8	Pass
18	2440	-6.71	8	Pass
25	2475	-2.73	8	Pass
26	2480	-20.31	8	Pass



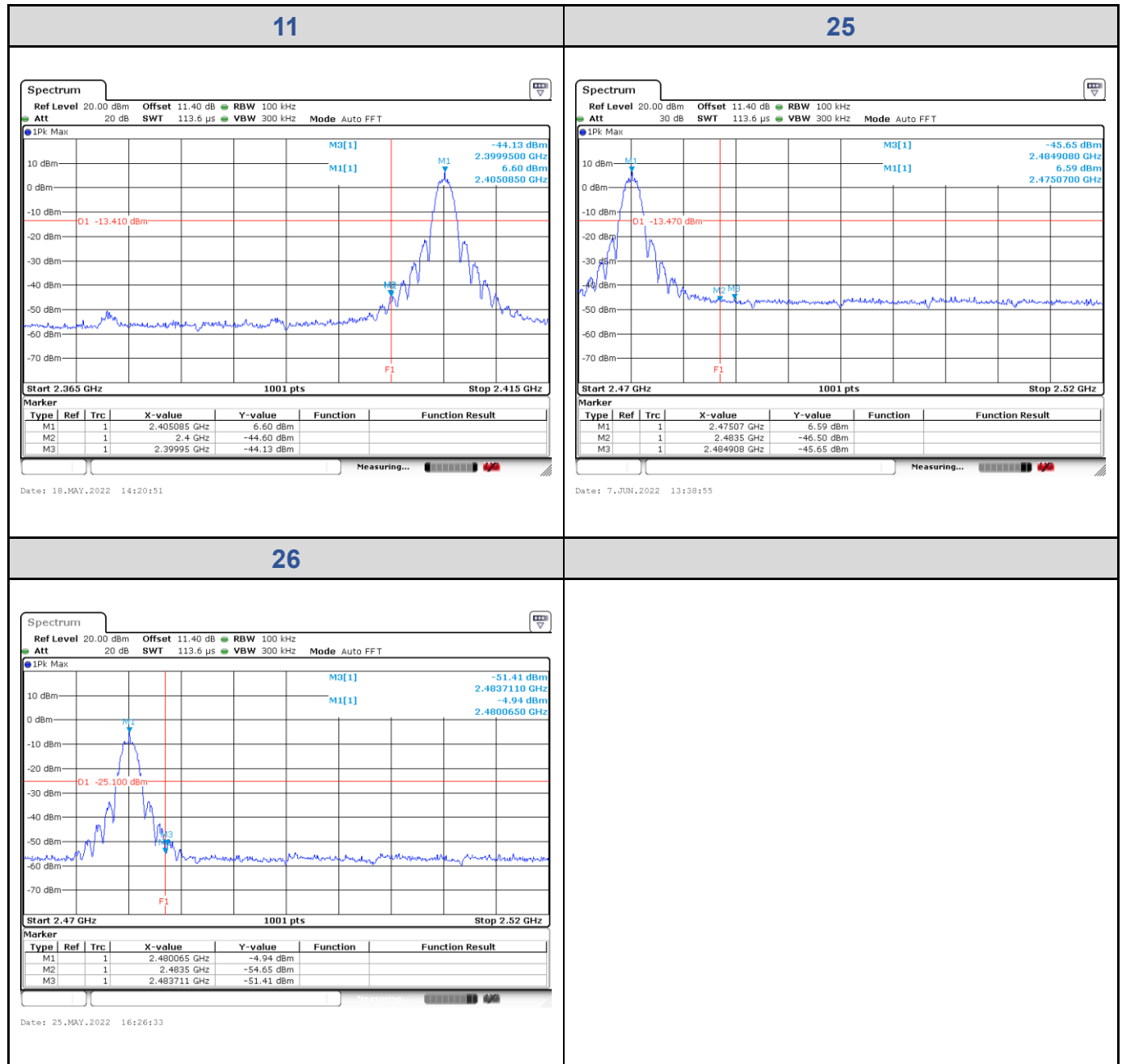
Test Result of Conducted Spurious Emissions, Tx Mode

Thread



Test Result of Conducted Band Edge, Tx Mode

Thread

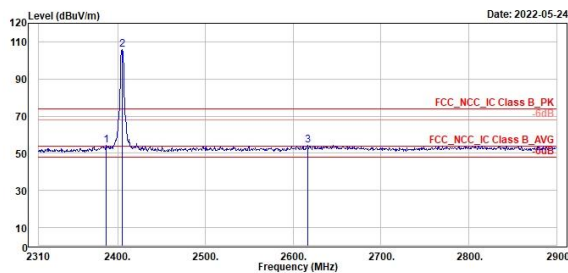


Appendix B: Test Results of Radiated Spurious Emissions

Band Edges, 2.31GHz ~ 2.9GHz

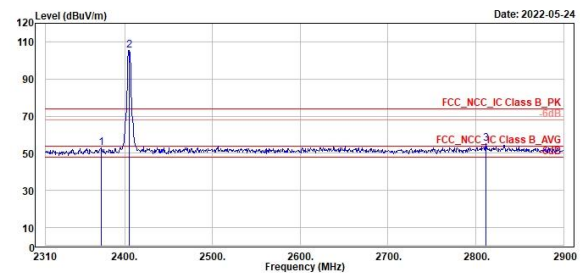
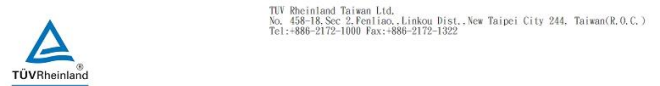
THREAD

Channel 11 (Horizontal) Peak



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	2386.70	54.38	16.81	37.57	74.00	-19.62	309	184	Peak	Horizontal	
2 *	2405.00	105.77	68.15	37.62	74.00	31.77	309	184	Peak	Horizontal	
3	2616.21	54.50	16.34	38.16	74.00	-19.50	309	184	Peak	Horizontal	

Channel 11 (Vertical) Peak



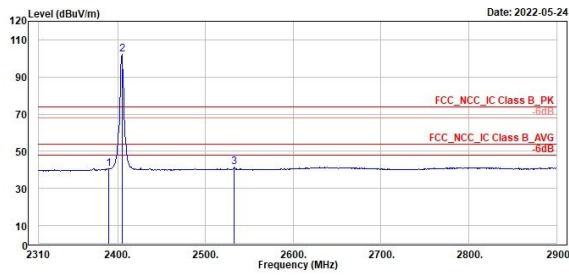
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2373.72	53.04	15.76	37.28	74.00	-20.96	182	96	Peak	Vertical	
2 *	2405.00	105.57	68.24	37.33	74.00	31.57	182	96	Peak	Vertical	
3	2811.50	55.11	16.92	38.19	74.00	-18.89	182	96	Peak	Vertical	

THREAD

Channel 11 (Horizontal) Average



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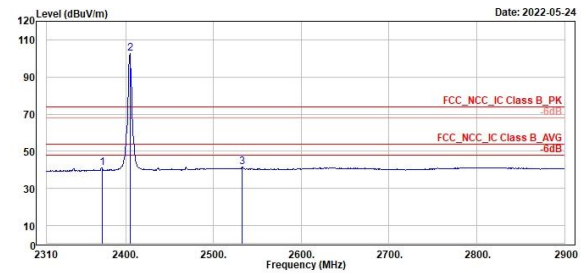


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.65	40.55	2.97	37.58	54.00	-13.45	309	184	Average	Horizontal		
2 *	2405.00	102.28	64.66	37.62	54.00	48.28	309	184	Average	Horizontal		
3	2533.02	41.54	3.90	37.64	54.00	-12.46	309	184	Average	Horizontal		

Channel 11 (Vertical) Average



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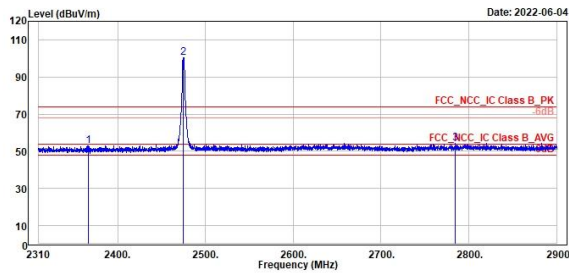
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2373.13	40.94	3.66	37.28	54.00	-13.06	182	96	Average	Vertical		
2 *	2405.00	102.49	65.16	37.33	54.00	48.49	182	96	Average	Vertical		
3	2533.02	41.60	3.73	37.87	54.00	-12.40	182	96	Average	Vertical		

THREAD

Channel 25 (Horizontal) Peak



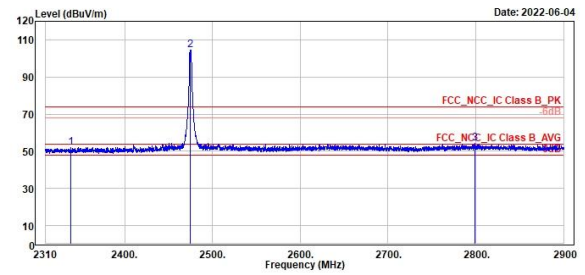
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2366.99	52.91	15.40	37.51	74.00	-21.09	392	26	Peak	Horizontal		
2 *	2475.00	100.45	62.85	37.60	74.00	26.45	392	26	Peak	Horizontal		
3	2784.60	54.37	16.31	38.06	74.00	-19.63	392	26	Peak	Horizontal		



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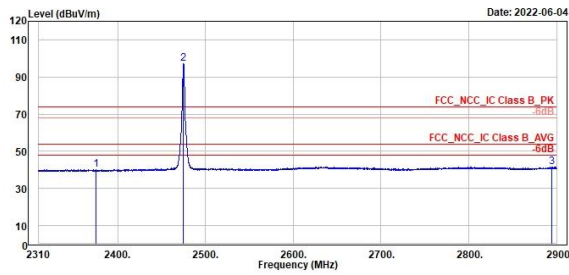
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2338.44	52.23	15.06	37.17	74.00	-21.77	124	170	Peak	Vertical		
2 *	2475.00	104.44	66.79	37.65	74.00	30.44	124	170	Peak	Vertical		
3	2798.87	54.43	16.25	38.18	74.00	-19.57	124	170	Peak	Vertical		

THREAD

Channel 25 (Horizontal) Average



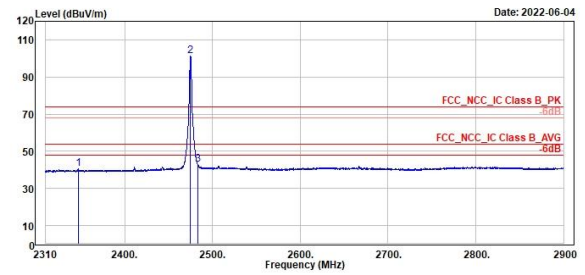
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2375.25	40.32	2.78	37.54	54.00	-13.68	392	26	Average	Horizontal	
2 *	2475.00	97.38	59.78	37.60	54.00	43.38	392	26	Average	Horizontal	
3	2894.81	41.60	3.33	38.27	54.00	-12.40	392	26	Average	Horizontal	



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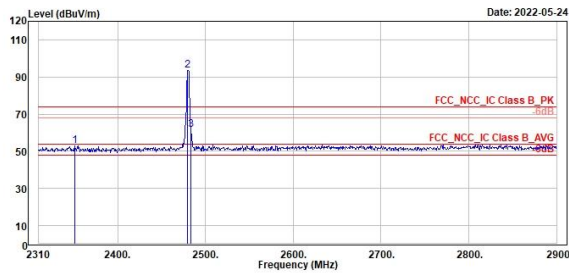
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2347.41	40.51	3.28	37.23	54.00	-13.49	124	170	Average	Vertical	
2 *	2475.00	101.33	63.68	37.65	54.00	47.33	124	170	Average	Vertical	
3	2483.46	42.79	5.08	37.71	54.00	-11.21	124	170	Average	Vertical	

THREAD

Channel 26 (Horizontal) Peak



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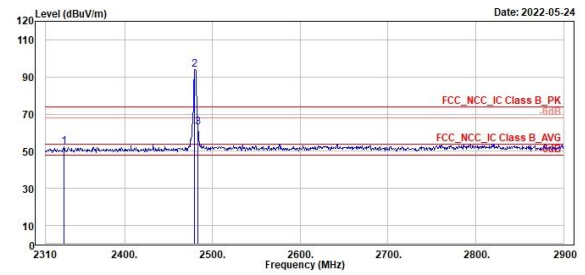


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2351.30	53.11	15.65	37.46	74.00	-20.89	327	183	Peak	Horizontal		
2 *	2480.00	95.58	55.99	37.59	74.00	19.58	327	183	Peak	Horizontal		
3	2483.46	61.50	23.92	37.58	74.00	-12.50	327	183	Peak	Horizontal		

Channel 26 (Vertical) Peak



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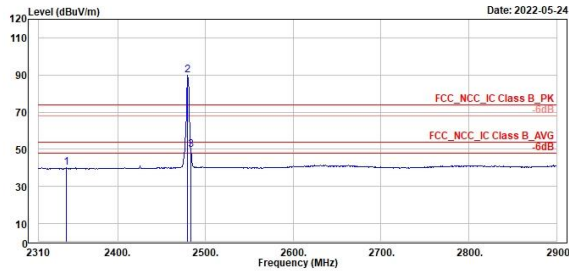
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2331.24	52.53	15.41	37.12	74.00	-21.47	241	73	Peak	Vertical		
2 *	2480.00	94.10	56.41	37.69	74.00	20.10	241	73	Peak	Vertical		
3	2483.46	62.86	25.15	37.71	74.00	-11.14	241	73	Peak	Vertical		

THREAD

Channel 26 (Horizontal) Average



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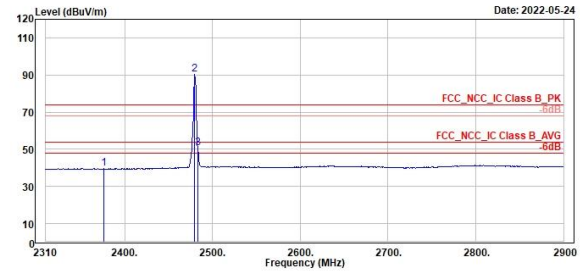


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2341.86	39.95	2.52	37.43	54.00	-14.05	327	183	Average	Horizontal		
2 *	2480.00	89.72	52.13	37.59	54.00	35.72	327	183	Average	Horizontal		
3 !	2483.46	49.89	12.31	37.58	54.00	-4.11	327	183	Average	Horizontal		

Channel 26 (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	2376.00	39.63	2.34	37.29	54.00	-14.37	241	73	Average	Vertical		
2 *	2480.00	90.43	52.74	37.69	54.00	36.43	241	73	Average	Vertical		
3 !	2483.46	50.74	13.03	37.71	54.00	-3.26	241	73	Average	Vertical		

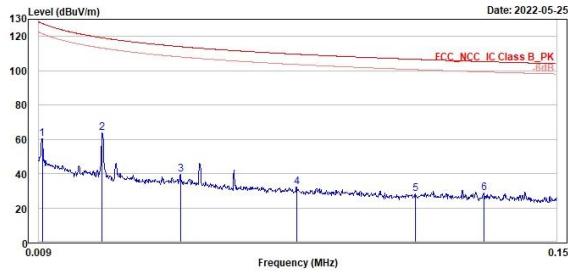
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

THREAD

Channel 11 (Open) 9kHz~150kHz



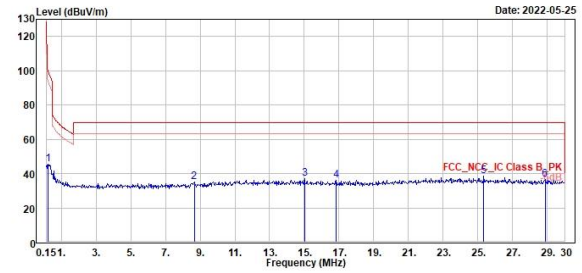
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	60.39	42.68	17.71	127.60	-67.21	100	57	QP	Open		
2	0.03	63.73	44.55	19.18	119.18	-55.45	100	5	QP	Open		
3	0.05	39.55	20.22	19.33	114.83	-74.48	100	193	QP	Open		
4	0.08	32.00	13.33	18.67	109.62	-77.62	100	39	QP	Open		
5	0.11	28.10	9.84	18.26	106.64	-78.54	100	153	QP	Open		
6	0.13	28.73	10.40	18.33	105.30	-76.57	100	62	QP	Open		



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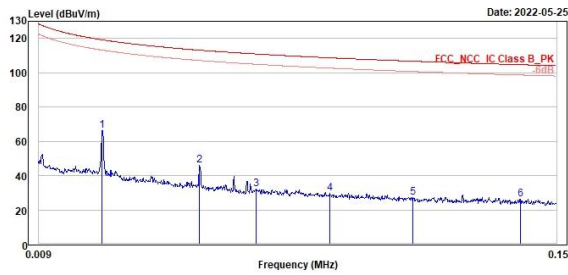
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.24	45.62	26.81	18.71	100.81	-54.39	100	121	QP	Open		
2	8.66	34.89	14.07	20.82	69.50	-34.61	100	274	QP	Open		
3	15.02	36.83	15.10	21.73	69.50	-32.67	100	64	QP	Open		
4	16.84	36.31	14.46	21.85	69.50	-33.19	100	281	QP	Open		
5	25.34	38.66	16.40	22.26	69.50	-30.84	100	50	QP	Open		
6	28.87	36.78	14.38	22.40	69.50	-32.72	100	58	QP	Open		

THREAD

Channel 11 (Close) 9kHz~150kHz



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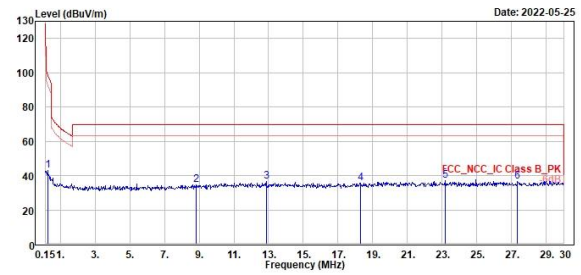


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.03	66.32	47.14	19.18	119.18	-52.86	100	124	QP	Close		
2	0.05	46.05	26.80	19.25	113.13	-67.08	100	45	QP	Close		
3	0.07	32.14	13.23	18.91	110.92	-78.78	100	361	QP	Close		
4	0.09	29.87	11.40	18.47	108.68	-78.81	100	89	QP	Close		
5	0.11	27.21	8.95	18.26	106.69	-79.48	100	24	QP	Close		
6	0.14	26.29	7.93	18.36	104.67	-78.38	100	9	QP	Close		

Channel 11 (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	0.27	43.03	24.21	18.82	98.99	-55.96	100	42	QP	Close		
2	8.81	34.83	13.95	20.88	69.50	-34.67	100	29	QP	Close		
3	12.87	36.48	14.89	21.59	69.50	-33.62	100	268	QP	Close		
4	18.30	35.77	13.82	21.95	69.50	-33.73	100	166	QP	Close		
5	23.19	37.02	14.83	22.19	69.50	-32.48	100	290	QP	Close		
6	27.34	36.41	14.07	22.34	69.50	-33.09	100	240	QP	Close		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

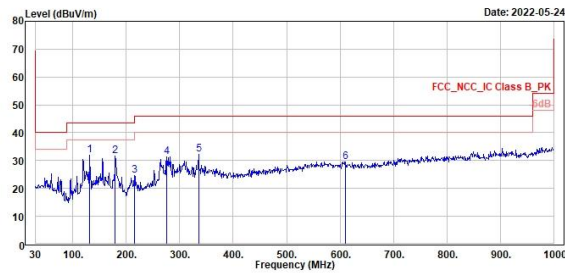
THREAD

Channel 11 (Horizontal)

Channel 11 (Vertical)



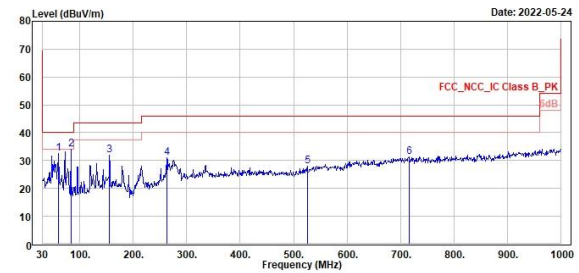
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	131.85	32.04	38.86	-6.82	43.50	-11.46	200	242	QP	Horizontal		
2	179.38	31.72	38.86	-7.14	43.50	-11.78	200	4	QP	Horizontal		
3	215.27	24.55	32.59	-8.04	43.50	-18.95	100	237	QP	Horizontal		
4	275.41	31.42	36.84	-5.42	46.00	-14.58	100	83	QP	Horizontal		
5	335.55	32.24	36.04	-3.80	46.00	-13.76	100	233	QP	Horizontal		
6	610.06	29.40	28.88	0.52	46.00	-16.60	305	11	QP	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	59.10	32.47	39.46	-6.99	40.00	-7.53	133	111	QP	Vertical		
2	83.35	34.12	45.36	-11.24	40.00	-5.88	200	12	QP	Vertical		
3	155.13	31.94	37.73	-5.79	43.50	-11.56	200	225	QP	Vertical		
4	262.80	30.95	37.05	-6.10	46.00	-15.05	207	24	QP	Vertical		
5	525.67	27.90	28.87	-0.97	46.00	-18.10	100	83	QP	Vertical		
6	715.79	31.46	29.60	1.86	46.00	-14.54	200	2	QP	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

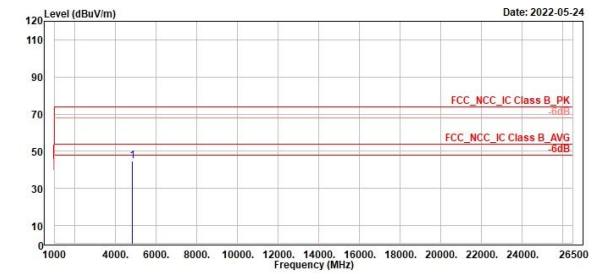
THREAD

Channel 11 (Horizontal)

Channel 11 (Vertical)



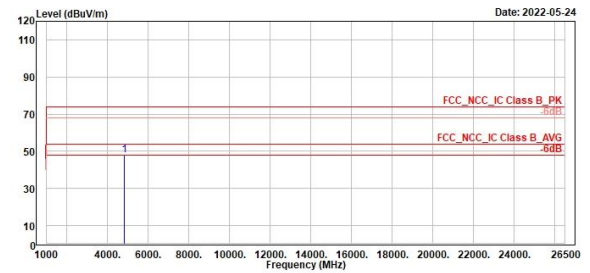
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4810.00	44.89	53.91	-9.02	74.00	-29.11	142	38	Peak	Horizontal	



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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	4810.00	47.77	57.17	-9.40	74.00	-26.23	280	148	Peak	Vertical	

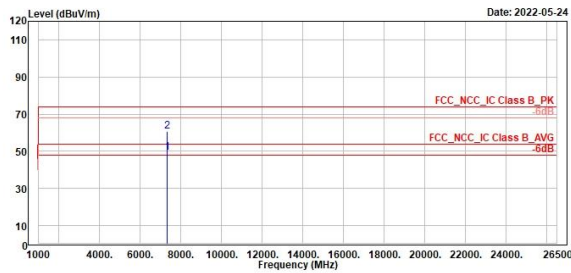
THREAD

Channel 18 (Horizontal)

Channel 18 (Vertical)



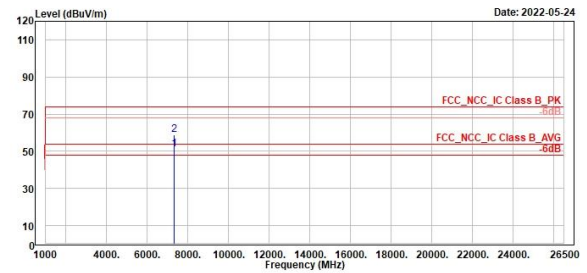
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Line	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	49.37	55.88	-6.51	54.00	-4.63	180	190	Average	Horizontal		
2	7320.00	60.49	67.00	-6.51	74.00	-13.51	180	190	Peak	Horizontal		



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Line	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	7320.00	51.07	57.70	-6.63	54.00	-2.93	180	94	Average	Vertical		
2	7320.00	58.98	65.61	-6.63	74.00	-15.02	180	94	Peak	Vertical		

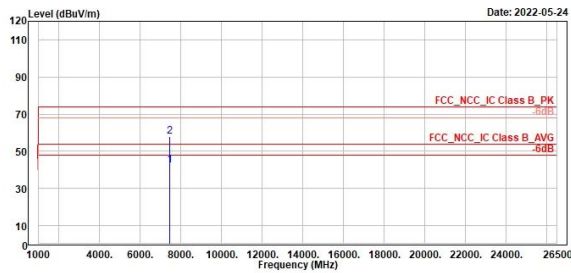
THREAD

Channel 26 (Horizontal)

Channel 26 (Vertical)



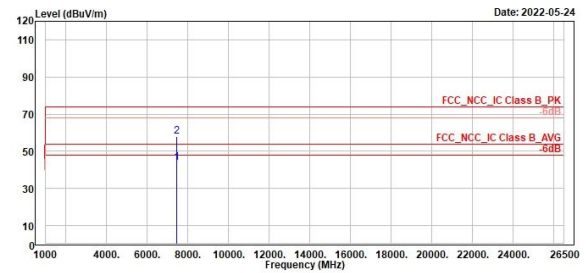
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7440.00	42.54	48.77	-6.23	54.00	-11.46	180	191	Average	Horizontal		
2	7440.00	58.03	64.26	-6.23	74.00	-15.97	180	191	Peak	Horizontal		



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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	7440.00	44.02	50.61	-6.59	54.00	-9.98	125	10	Average	Vertical		
2	7440.00	58.08	64.67	-6.59	74.00	-15.92	125	10	Peak	Vertical		