

Prüfbericht-Nr.: Test report no.:	CN20H36H(P15C-THREAD) 001	Auftrags-Nr.: Order no.:	238491014	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2020-09-02	
Auftraggeber: Client:	Eve Systems LLC 100 Pine St., Suite 1250, San Francisco CA 94111 USA			
Prüfgegenstand: Test item:	Eve Weather			
Bezeichnung / Typ-Nr.: Identification / Type no.:	20EBS9901			
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:	2020-11-06			
Prüfmuster-Nr.: Test sample no:	A002944173-013 A002944173-014			
Prüfzeitraum: Testing period:	2020-11-10 - 2020-11-16			
Ort der Prüfung: Place of testing:	EMC/RF Laboratory Taipei			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: reviewed by:			genehmigt von: authorized by:	
Datum: Date:	2020-11-26		Ausstellungsdatum: Issue date:	2020-11-26
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. <i>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.</i>				

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
-	FCC KDB 447498 D01 v06	RF Exposure Compliance	Refer to report no. CN20H36H(RFEXPOSURE) 001

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 & MAINS CONDUCTED EMISSION

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN20H36H(P15C-THREAD) 001	Original Release	2020-11-26

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 & Mains Conducted Emission

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
KDB 447498 D01 General RF Exposure Guidance v06

1.2 Decision Rule of Conformity

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

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

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

2.2 Test Facility

Taipei Testing Laboratories

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

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Emission Measurement Uncertainty

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

3. General Product Information

3.1 Product Function and Intended Use

The EUT is an Eve Weather. It contains a Bluetooth 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 Weather
Type Identification	20EBS9901
FCC ID	SNE-WEATH-002

Technical Specification of EUT

Item	EUT information
Operating Frequency	2405 MHz ~ 2480 MHz
Channel Spacing	5 MHz
Channel number	16
Data Rate	TRx
Operation Voltage	3Vdc from Battery
Modulation	GFSK
Maximum Output Power (mW)	5.12
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
2480	8

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 a USB interface which makes it possible to control them through a test software installed on a notebook computer.

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

Test Software	Tera Term VT
---------------	--------------

The samples were used as follows:

A002944173-013 for radiated

A002944173-014 for conducted

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

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

Note:

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

Antenna Port Conducted Measurement

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2405 to 2480	2405, 2440, 2480	-

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 (Mbps)
-	2405 to 2480	2405, 2440, 2480	-

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 (Mbps)
-	2405 to 2480	2405	-

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	24.3 °C	49.9 %	Stanislas Charles
Radiated Spurious Emissions above 1 GHz	22.8~23.8 °C	58.5~59.7 %	Simom Tsai
Radiated Spurious Emissions below 1 GHz	22.8~23.8 °C	58.5~59.7 %	Simom Tsai

4.4 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

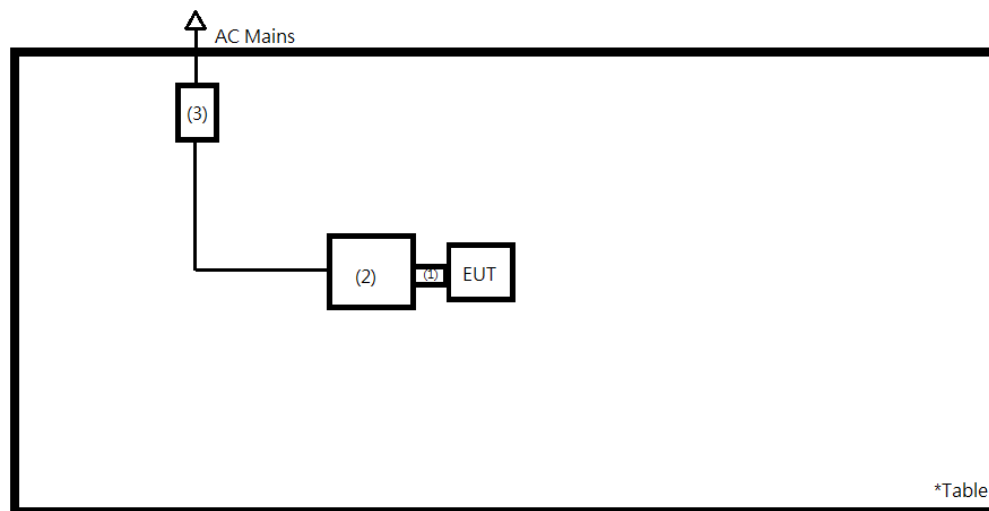
None.

Support Unit

No.	Description	Brand	Model	S/N	Remark
1	UART	N/A	CP2102	-	Radiated Test
2	Nootebook	HP	15s-du0007TX	CND93662VF	
3	Adapter	HP	TPN-CA16	-	
-	Notebook	HP	TPN-139	CND93662WT	Conducted Test

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

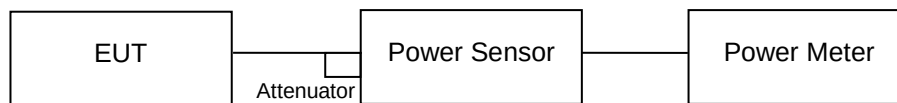
According to the manufacturer declaration, the EUT has an antenna with a directional gain of 1.6dBi dBi. The antenna is a printed PCB trace with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.
Refer to EUT photo 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	2020/4/6	2021/4/5	2020/11/11	2020/11/11
Power Sensor	Anritsu	MA2411B	1725269	2020/4/7	2021/4/6		

Test Procedures

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

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

Test Result**Peak Output Power**

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2405	7.09	5.12	30
Middle Channel	2440	6.86	4.85	30
High Channel	2480	6.59	4.56	30

Note: The maximum Antenna gain is 1.6dBi, EIRP <36dBm.

Average Power

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2405	7.06	5.08
Middle Channel	2440	6.83	4.82
High Channel	2480	6.56	4.53

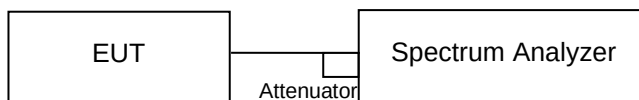
Note: The maximum Antenna gain is 1.6dBi, EIRP <36dBm.

5.1.3 6 dB Bandwidth

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

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	Agilent	N9010A	MY53470241	2020/6/2	2021/6/1	2020/11/10	2020/11/10

Test Procedure

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

Test Results

Please refer to Appendix A.

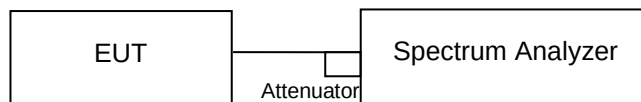
5.1.4 Power Spectral Density

Limit

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

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	Agilent	N9010A	MY53470241	2020/6/2	2021/6/1	2020/11/10	2020/11/10

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.

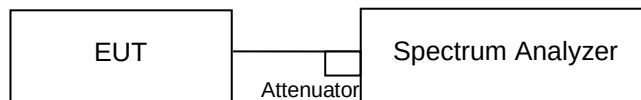
5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

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	Agilent	N9010A	MY53470241	2020/6/2	2021/6/1	2020/11/10	2020/11/10

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 OOB

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

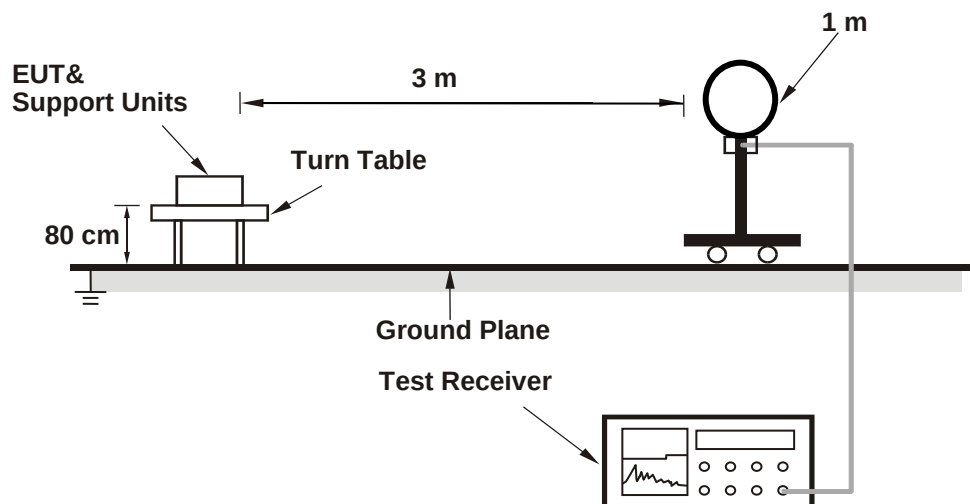
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

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).

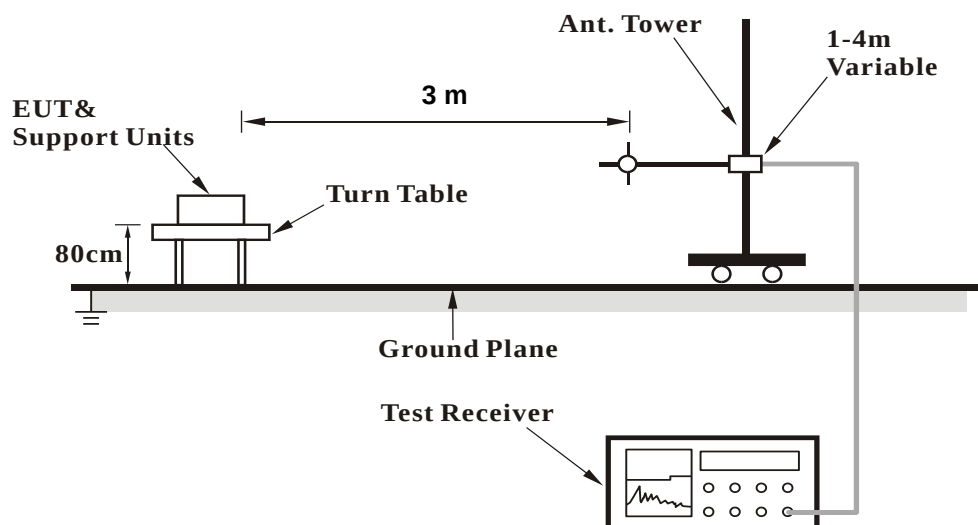
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

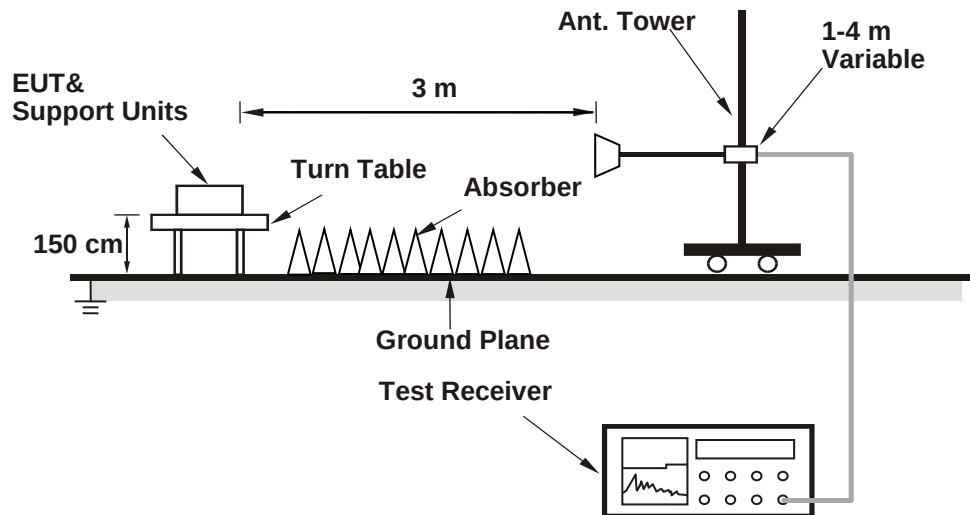
<Radiated Emissions below 30 MHz>



<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).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101508	2020/3/16	2021/3/15
Receiver	R&S	ESR7	102108	2020/4/22	2021/4/21
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2020/2/14	2021/2/12
Horn Antenna	ETS-Lindgren	3117	00218930	2019/12/6	2020/12/4
LF-AMP	Agilent	8447D	2944A10772	2020/2/11	2021/2/9
HF-AMP + AC source	EMCI	EMC051845SE	980633	2020/2/17	2021/2/15
HF-AMP + AC source	EMCI	EMC184045SE	980657	2020/2/17	2021/2/15
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2020/4/10	2021/4/9
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2020/4/22	2021/4/21
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2020/1/9	2021/1/7

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 (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, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

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Test Results

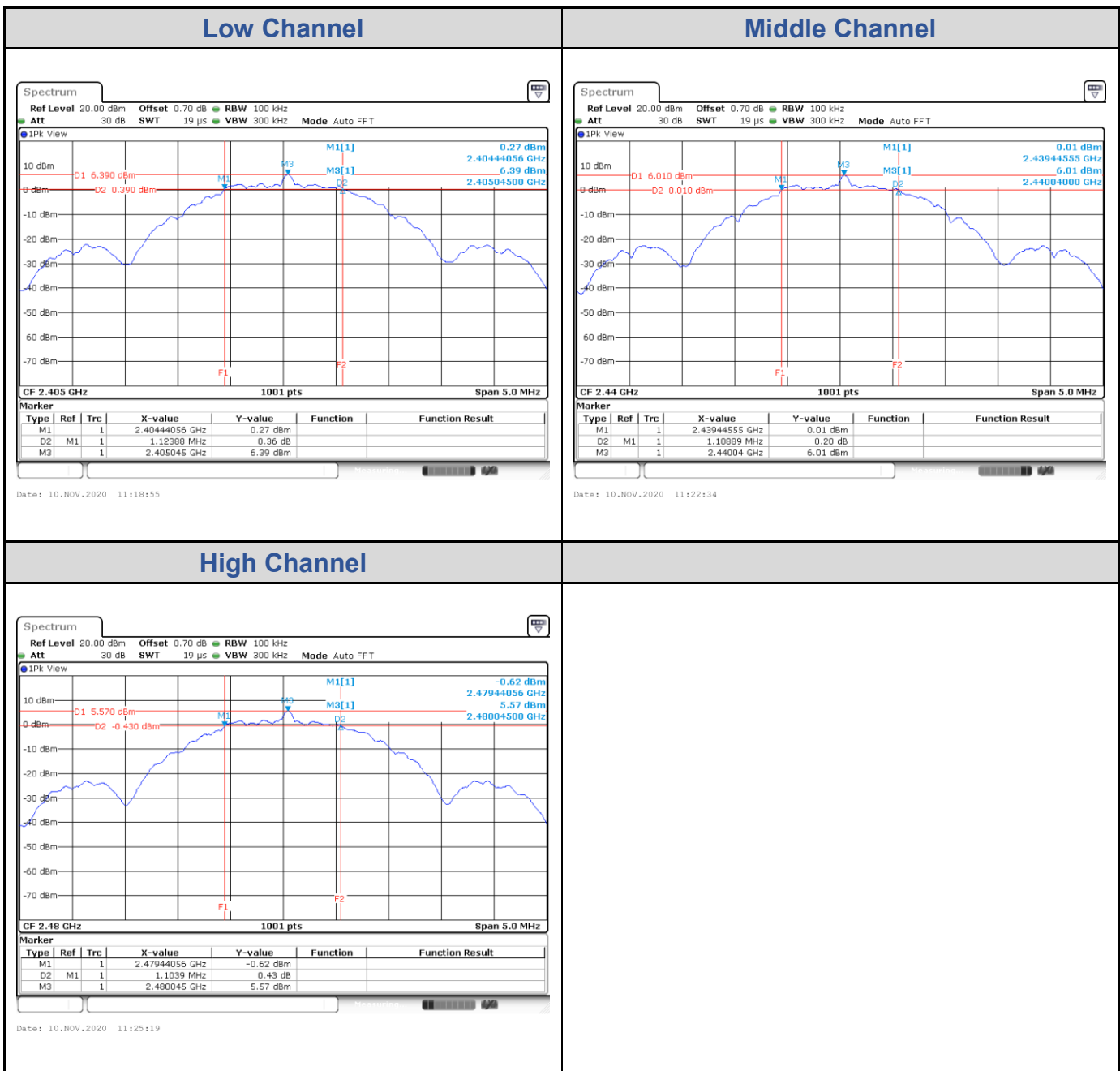
Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

Appendix A: Test Results of Conducted Test

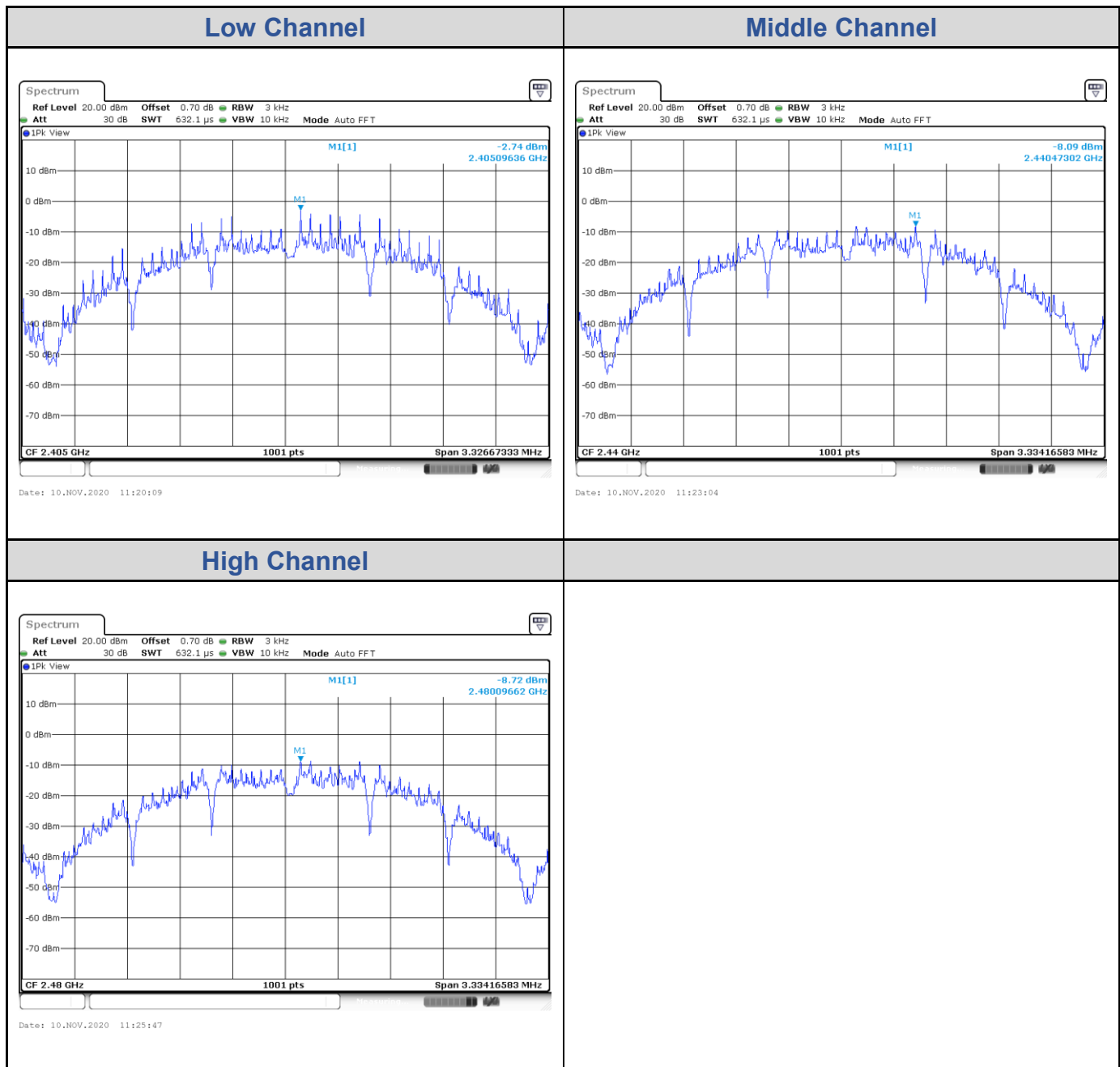
Test Result of 6 dB Bandwidth

Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2405	1123.88	> 500	Pass
Middle Channel	2440	1108.89	> 500	Pass
High Channel	2480	1103.90	> 500	Pass

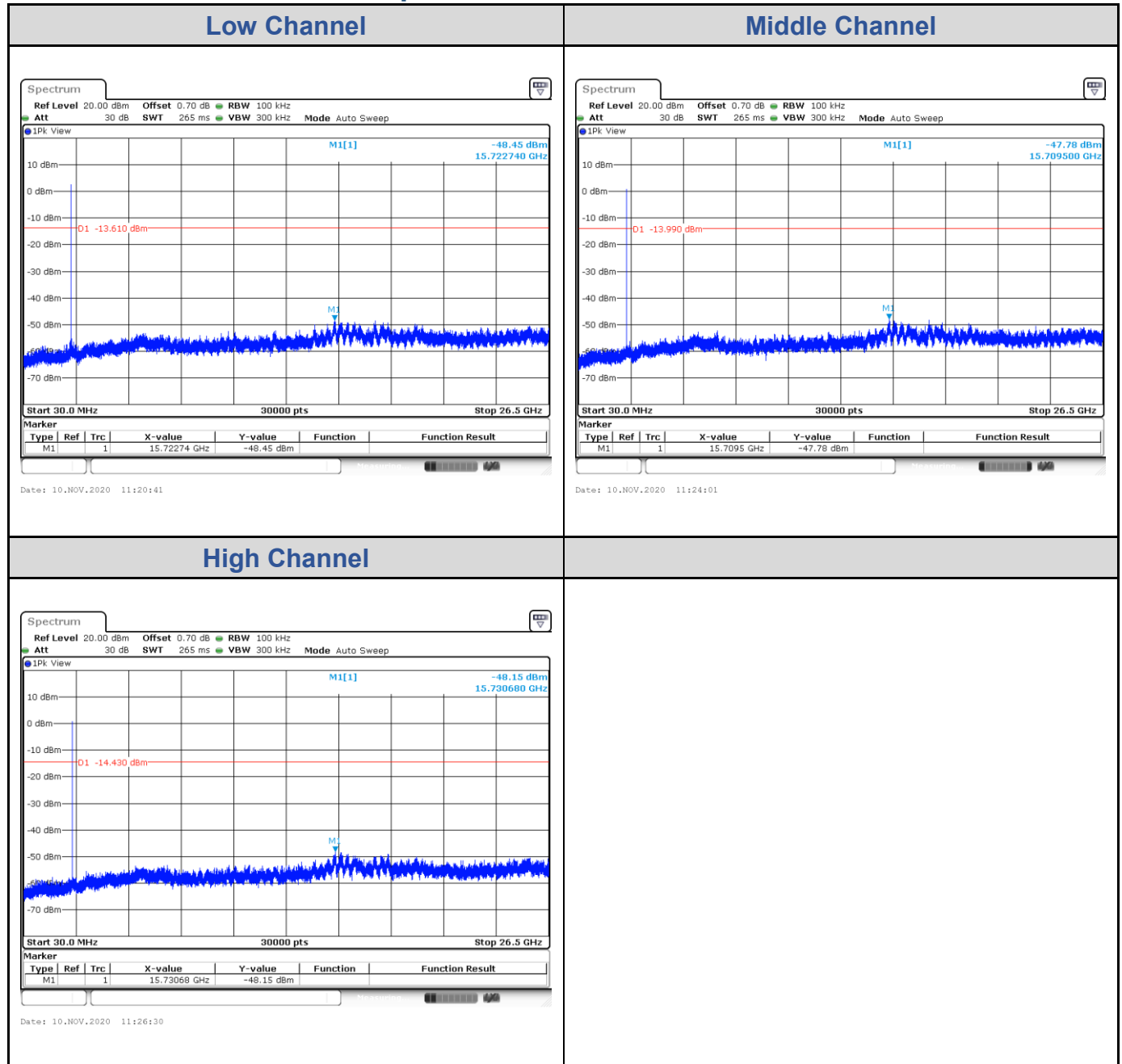


Test Result of Power Spectral Density

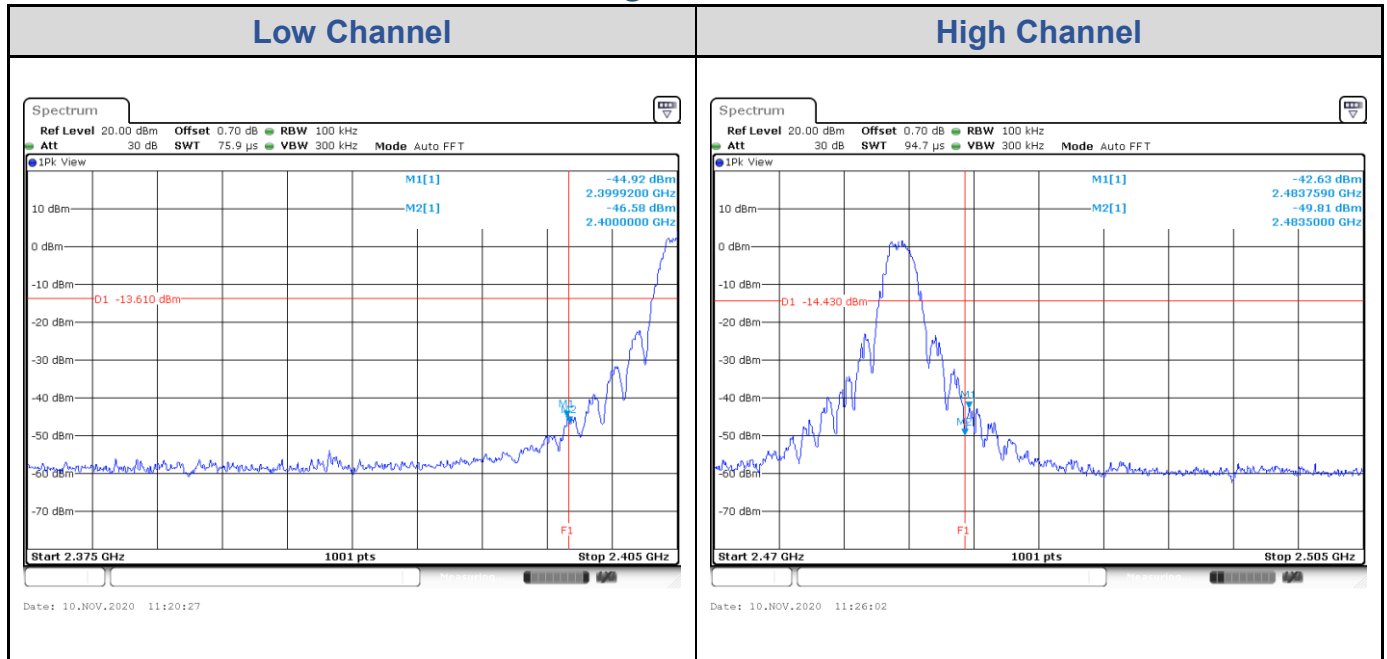
Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2405	-2.74	8	Pass
Middle Channel	2440	-8.09	8	Pass
High Channel	2480	-8.72	8	Pass



Test Result of Conducted Spurious Emissions, Tx Mode



Test Result of Conducted Band Edge, Tx Mode



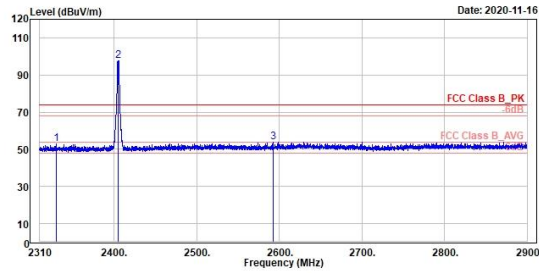
Appendix B: Test Results of Radiated Emissions

Band Edges, 2.31GHz ~ 2.9GHz

Low Channel (Horizontal) Peak



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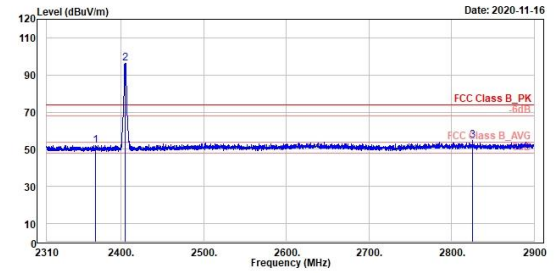


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2330.14	52.74	15.60	37.14	74.00	-21.26		350	231	Peak	Horizontal	
2 *	2405.00	97.58	60.20	37.38	74.00	23.58		350	231	Peak	Horizontal	
3	2592.93	54.02	16.05	37.97	74.00	-19.98		350	231	Peak	Horizontal	

Low Channel (Vertical) Peak



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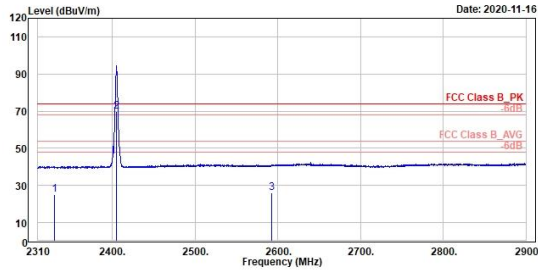


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2368.78	52.20	14.93	37.27	74.00	-21.80		392	292	Peak	Vertical	
2 *	2405.00	96.33	58.95	37.38	74.00	22.33		392	292	Peak	Vertical	
3	2826.03	54.85	16.86	37.99	74.00	-19.15		392	292	Peak	Vertical	

Low Channel (Horizontal) Average



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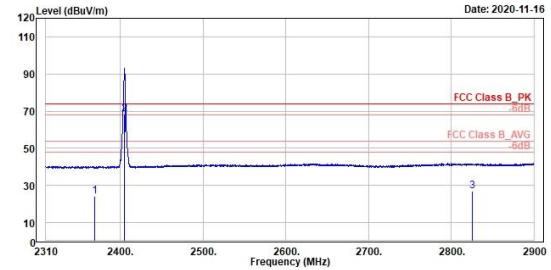


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2330.14	24.88	-12.26	37.14	54.00	-29.12	350	231	Average	Horizontal	CF	
2 *	2405.00	69.72	32.34	37.38	54.00	15.72	350	231	Average	Horizontal	CF	
3	2592.93	26.16	-11.81	37.97	54.00	-27.84	350	231	Average	Horizontal	CF	

Low Channel (Vertical) Average



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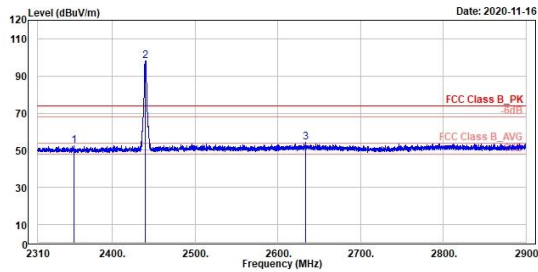


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2368.78	24.39	-12.88	37.27	54.00	-29.61	392	292	Average	Vertical	CF	
2 *	2405.00	68.47	31.09	37.38	54.00	14.47	392	292	Average	Vertical	CF	
3	2826.03	26.99	-11.00	37.99	54.00	-27.01	392	292	Average	Vertical	CF	

Middle Channel (Horizontal) Peak



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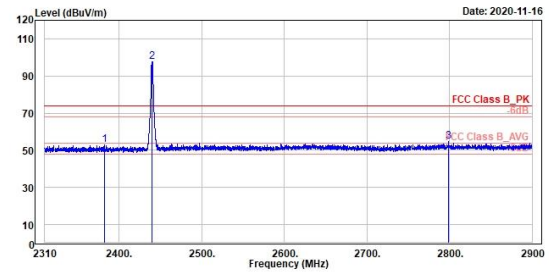


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2353.23	52.64	15.42	37.22	74.00	-21.36	298	246	Peak	Horizontal		
2 *	2448.00	98.21	68.72	37.49	74.00	24.21	298	246	Peak	Horizontal		
3	2633.92	54.17	16.28	37.89	74.00	-19.83	298	246	Peak	Horizontal		

Middle Channel (Vertical) Peak



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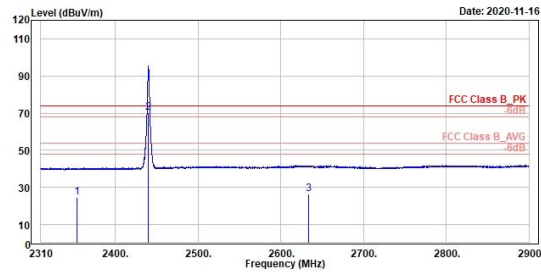


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2382.09	52.87	15.57	37.30	74.00	-21.13	337	164	Peak	Vertical		
2 *	2448.00	97.63	68.14	37.49	74.00	23.63	337	164	Peak	Vertical		
3	2798.58	54.83	16.92	37.91	74.00	-19.17	337	164	Peak	Vertical		

Middle Channel (Horizontal) Average



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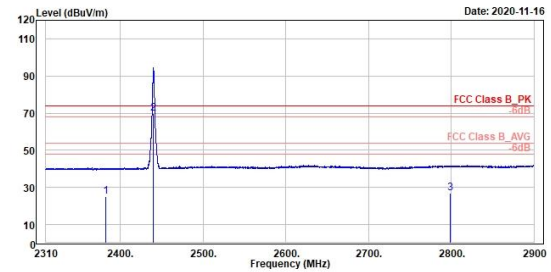


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2353.23	24.78	-12.44	37.22	54.00	-29.22	298	246	Average	Horizontal	CF	
2 *	2448.00	70.35	32.86	37.49	54.00	16.35	298	246	Average	Horizontal	CF	
3	2633.92	26.31	-11.58	37.89	54.00	-27.69	298	246	Average	Horizontal	CF	

Middle Channel (Vertical) Average



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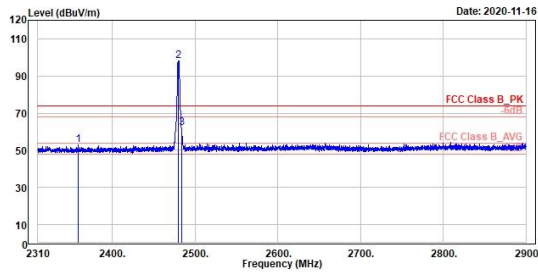


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2382.09	25.02	-12.28	37.30	54.00	-28.98	337	164	Average	Vertical	CF	
2 *	2448.00	69.77	32.28	37.49	54.00	15.77	337	164	Average	Vertical	CF	
3	2798.58	26.97	-10.94	37.91	54.00	-27.03	337	164	Average	Vertical	CF	

High Channel (Horizontal) Peak



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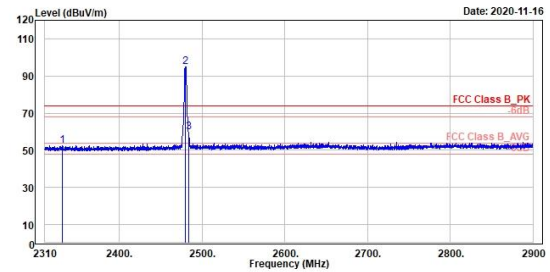


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2358.41	52.73	15.49	37.24	74.00	-21.27	367	216	Peak	Horizontal		
2 *	2480.00	98.27	68.71	37.56	74.00	24.27	367	216	Peak	Horizontal		
3	2483.62	62.09	24.53	37.56	74.00	-11.91	367	216	Peak	Horizontal		

High Channel (Vertical) Peak



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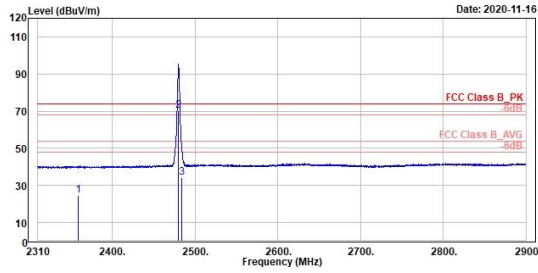


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2331.44	52.42	15.28	37.14	74.00	-21.58	400	130	Peak	Vertical		
2 *	2480.00	94.94	57.38	37.56	74.00	20.94	400	130	Peak	Vertical		
3	2483.50	59.97	22.41	37.56	74.00	-14.03	400	130	Peak	Vertical		

High Channel (Horizontal) Average



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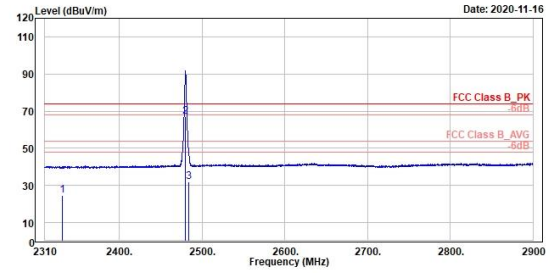


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.41	24.86	-12.38	37.24	54.00	-29.14		367	216	Average	Horizontal	CF
2 *	2488.00	70.41	32.85	37.56	54.00	16.41		367	216	Average	Horizontal	CF
3	2483.62	34.23	-3.33	37.56	54.00	-19.77		367	216	Average	Horizontal	CF

High Channel (Vertical) Average



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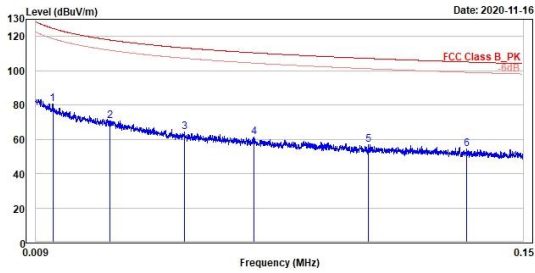
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2331.44	24.57	-12.57	37.14	54.00	-29.43		400	130	Average	Vertical	CF
2 *	2488.00	67.08	29.52	37.56	54.00	13.08		400	130	Average	Vertical	CF
3	2483.50	32.11	-5.45	37.56	54.00	-21.89		400	130	Average	Vertical	CF

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

Low Channel (Open) 9kHz~150kHz



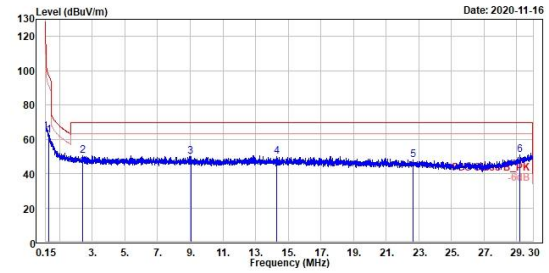
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.01	80.36	3.98	76.38	124.72	-44.36	100	94	QP	Open		
2	0.03	70.70	0.09	70.61	117.92	-47.22	100	97	QP	Open		
3	0.05	64.13	-0.64	64.77	113.27	-49.14	100	279	QP	Open		
4	0.07	61.38	-0.74	62.12	110.44	-49.06	100	0	QP	Open		
5	0.11	56.69	-2.25	58.94	107.15	-50.46	100	196	QP	Open		
6	0.13	54.30	-3.00	57.30	105.68	-50.78	100	40	QP	Open		



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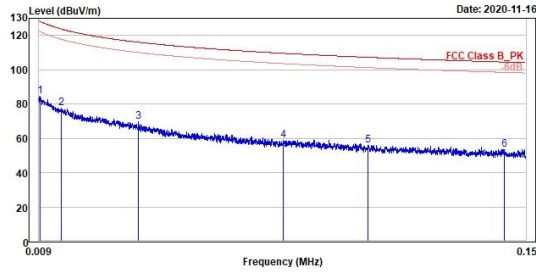


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.34	62.15	12.55	49.60	96.95	-34.80	100	220	QP	Open		
2	2.40	50.37	11.86	38.51	69.50	-19.13	100	106	QP	Open		
3	9.03	50.04	12.27	37.77	69.50	-19.46	100	343	QP	Open		
4	14.30	49.94	12.29	37.65	69.50	-19.56	100	261	QP	Open		
5	22.67	48.12	12.44	35.68	69.50	-21.38	100	256	QP	Open		
6	29.22	50.75	12.96	37.79	69.50	-18.75	100	263	QP	Open		

Low Channel (Close) 9kHz~150kHz



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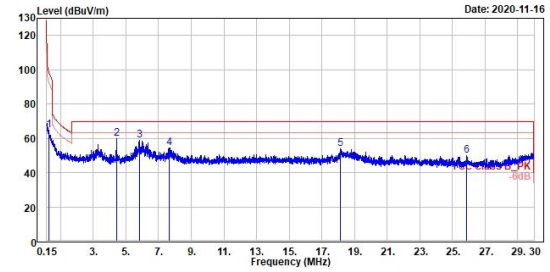


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	84.44	4.95	79.49	128.11	-43.67	100	342 QP	Close	
2	0.02	77.47	2.11	75.36	123.76	-46.29	100	12 QP	Close	
3	0.04	69.94	1.68	68.26	116.04	-46.10	100	136 QP	Close	
4	0.08	58.71	-2.56	61.27	109.55	-50.84	100	10 QP	Close	
5	0.10	56.07	-2.93	59.00	107.22	-51.15	100	129 QP	Close	
6	0.14	53.61	-3.11	56.72	104.45	-50.84	100	148 QP	Close	

Low Channel (Close) 150kHz~30MHz



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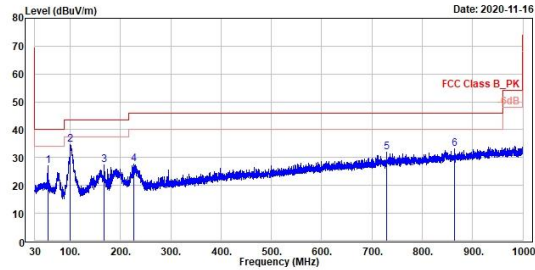
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.28	64.55	13.62	50.93	98.53	-33.98	100	330 QP	Close	
2	4.43	59.71	21.38	38.33	69.50	-9.79	100	355 QP	Close	
3	5.83	58.87	20.52	38.35	69.50	-10.63	100	361 QP	Close	
4	7.68	54.62	16.45	38.17	69.50	-14.88	100	323 QP	Close	
5	18.14	53.97	17.19	36.78	69.50	-15.53	100	184 QP	Close	
6	25.09	50.13	15.86	34.27	69.50	-19.37	100	170 QP	Close	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Low Channel (Horizontal)



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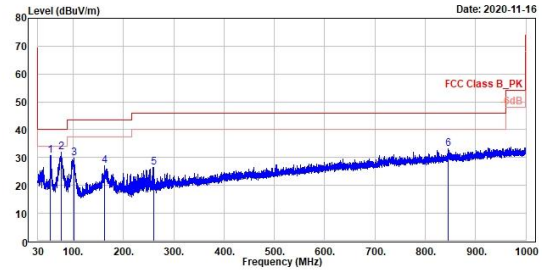


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	56.08	27.19	34.93	-7.74	40.00	-12.81		400	97	QP	Horizontal	
2	100.81	34.60	47.16	-12.56	43.50	-8.90		200	281	QP	Horizontal	
3	167.93	27.46	34.67	-7.21	43.50	-16.04		200	61	QP	Horizontal	
4	226.81	27.68	37.08	-9.40	46.00	-18.32		149	360	QP	Horizontal	
5	728.59	31.79	31.12	0.67	46.00	-14.21		400	360	QP	Horizontal	
6	864.78	33.05	30.46	2.59	46.00	-12.95		300	62	QP	Horizontal	

Low Channel (Vertical)



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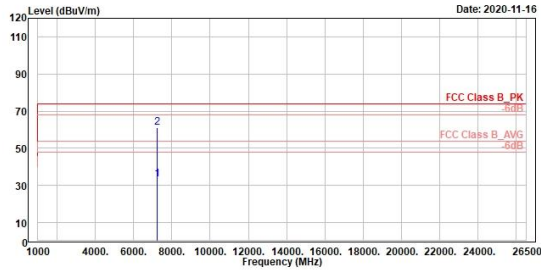
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	55.22	30.86	38.54	-7.68	40.00	-9.14		200	303	QP	Vertical	
2	76.17	31.82	43.17	-11.35	40.00	-8.18		200	318	QP	Vertical	
3	101.10	29.69	42.18	-12.49	43.50	-13.81		200	198	QP	Vertical	
4	162.89	26.96	34.30	-7.34	43.50	-16.54		100	165	QP	Vertical	
5	259.50	26.54	34.38	-7.84	46.00	-19.46		200	318	QP	Vertical	
6	846.26	33.16	30.81	2.35	46.00	-12.84		100	149	QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

Low Channel (Horizontal)



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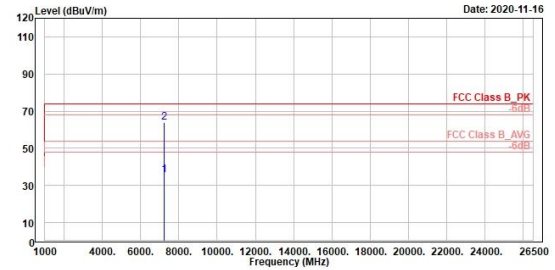


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7215.00	33.13	40.82	-7.69	54.00	-20.87	344	247	Average	Horizontal	CF	
2	7215.00	60.99	68.68	-7.69	74.00	-13.01	344	247	Peak	Horizontal		

Low Channel (Vertical)



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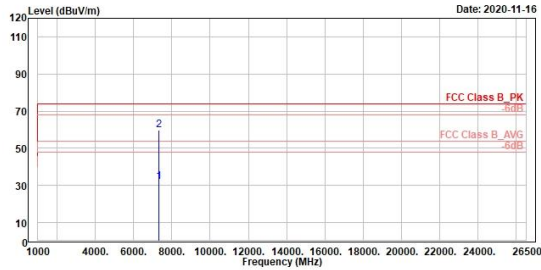


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7215.00	35.82	43.51	-7.69	54.00	-18.18	107	253	Average	Vertical	CF	
2	7215.00	63.68	71.37	-7.69	74.00	-10.32	107	253	Peak	Vertical		

Middle Channel (Horizontal)



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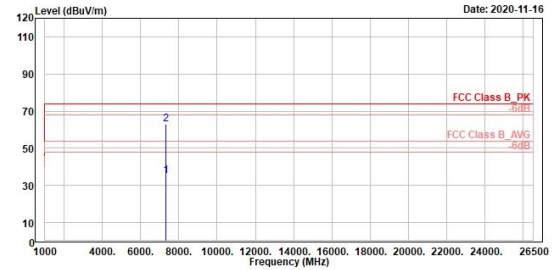


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	31.71	39.49	-7.78	54.00	-22.29	400	237	Average	horizontal	CF
2	7320.00	59.57	67.35	-7.78	74.00	-14.43	400	237	Peak	horizontal	

Middle Channel (Vertical)



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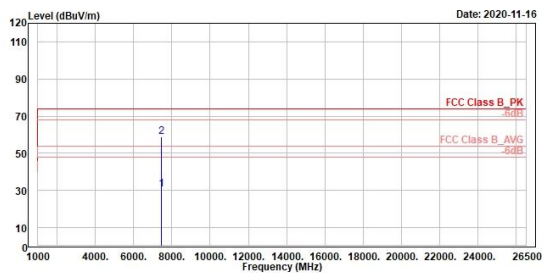


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	35.33	43.11	-7.78	54.00	-18.67	117	360	Average	vertical	CF
2	7320.00	63.19	70.97	-7.78	74.00	-10.81	117	360	Peak	vertical	

High Channel (Horizontal)



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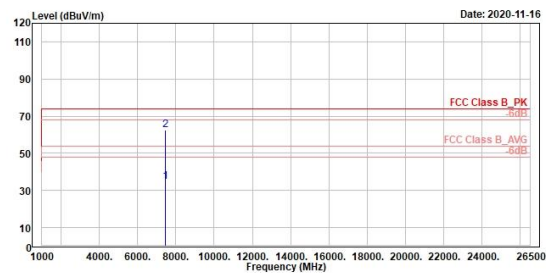


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	30.77	38.49	-7.72	54.00	-23.23	386	238	Average	Horizontal	CF	
2	7440.00	58.63	66.35	-7.72	74.00	-15.37	386	238	Peak	Horizontal		

High Channel (Vertical)



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	34.67	42.39	-7.72	54.00	-19.33	110	240	Average	Vertical	CF	
2	7440.00	62.53	70.25	-7.72	74.00	-11.47	110	240	Peak	Vertical		